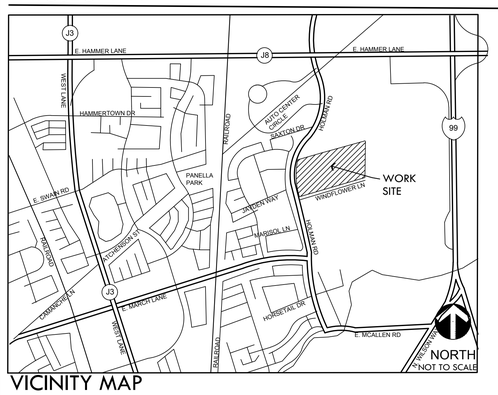
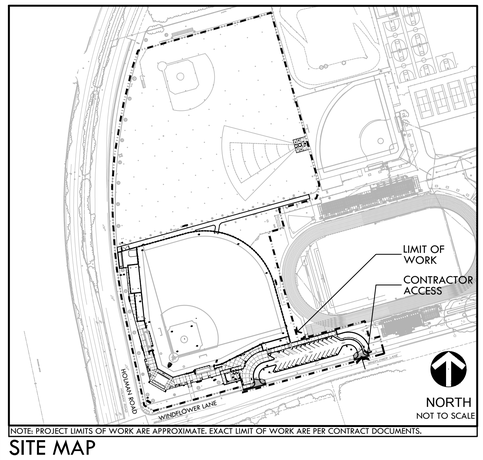
## PROJECT MAP



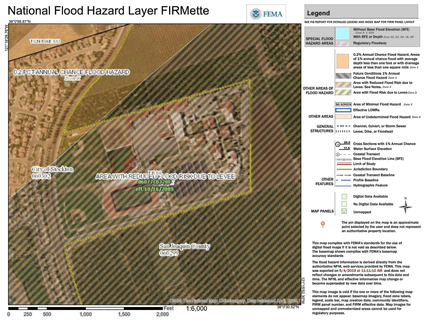

## VICINITY MAP




NOTE: PROJECT LIMITS OF WORK ARE APPROXIMATE. EXACT LIMIT OF WORK ARE PER CONTRACT DOCUMENTS.

## SITE MAP

National Flood Hazard Layer FIRMette




# CONSTRUCTION DRAWINGS FOR

# CHAVEZ HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

2929 WINDFLOWER LANE
STOCKTON, CA 95212
STOCKTON UNIFIED SCHOOL DISTRICT
DSA PROJECT NO. 02-118017
VERDE DESIGN, INC. PROJECT NO. 1910900

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

## PREPARED BY


VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesignInc.com

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

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STRUCTURAL ENGINEERS, INC.
1505 MERIDIAN AVE, SUITE B SAN JOSE, CALIFORNIA 95125
PHONE 408.978.1970
AKH JOB M19-033

REGISTERED PROFESSIONAL ENGINEER
TIM D. HYDE
No. 53260
EXP. 3/31/21
STRUCTURAL
STATE OF CALIFORNIA

American Consulting Engineers Electrical, Inc.
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E16890
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911 Center Street, Suite F
Santa Cruz, CA 95060
831 459-0951
www.wckempf.com

LICENSED ARCHITECT
WILLIAM C. KEMPF
No. 25962
SEPTEMBER 30, 2021
EXPIRATION
STATE OF CALIFORNIA




## SCOPE OF WORK

BASE BID: SITE IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO: THE DEMOLITION OF A PORTION OF THE EXISTING BASEBALL AND MULTI-USE FIELD. CONTRACTOR TO COMPLETE THE INSTALLATION OF A NEW LIGHTED BASEBALL STADIUM, RESTROOM/CONCESSION BUILDING, AND PARKING LOT. CONTRACTOR TO MAKE RENOVATIONS AND IMPROVEMENTS TO MULTI-USE FIELD. THIS INCLUDES ALL SITE FURNISHINGS, HARDSCAPE, SOFTSCAPE, SITE DRAINAGE, IRRIGATION AND UTILITIES SHALL BE COMPLETED.

ALTERNATE: SITE IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO: HOME PLATE AREA, PITCHERS MOUND AND BULLPENS SHALL BE CONSTRUCTED WITH INFIELD/WARNING TRACK FINES AND/OR CLAY INLIEU OF SYNTHETIC TURF

## GENERAL NOTES

1. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE & FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL NOTIFY DISTRICT'S REPRESENTATIVE OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
2. NO CONSTRUCTION SHALL COMMENCE WITHOUT THE OFFICIAL NOTICE TO PROCEED FROM THE DISTRICT.
3. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL OF THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT. VERIFY ACTUAL LOCATION AND DEPTH OF UTILITIES, AND REPORT POTENTIAL CONFLICTS TO THE DISTRICT'S REPRESENTATIVE PRIOR TO EXCAVATING FOR NEW FACILITIES.
4. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT, IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES CAUSED BY ITS OPERATIONS.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS WITHIN SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL DAMAGED AREAS TO THEIR ORIGINAL CONDITION OR BETTER AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE DISTRICT'S REPRESENTATIVE.
6. DIMENSIONS AND LOCATIONS OF EXISTING FACILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DISTRICT'S REPRESENTATIVE.
7. ALL WORK SHALL CONFORM TO THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA FIRE CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, AS WELL AS ADAPTED STANDARDS.
8. ALL NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATIONS AND DETAILS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
9. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT SPECIFICATIONS PUBLISHED IN BOOK FORM. COMBINED, THEY ARE HEREIN REFERRED TO AS THE "CONTRACT DOCUMENTS".
10. DIMENSIONS ON WORKING DRAWINGS TAKE PRECEDENCE OVER MEASURED ELEMENTS. CONTRACTOR SHALL NOT SCALE DRAWINGS.
11. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
12. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF THE PUBLIC RIGHT-OF-WAY AT ALL TIMES.
13. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
14. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE DISTRICT'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
15. CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISTURBING STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF THE UTILITIES MUST BE COORDINATED AND APPROVED BY THE DISTRICT'S REPRESENTATIVE AND INSPECTOR OF RECORD PRIOR TO COMMENCING WORK.
16. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
17. THE PLANS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER CONTROL/OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, THE CONTRACTOR SHALL PROVIDE AN ITEM WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN PRICE.
18. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
19. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.
20. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK AND IS SUBJECT TO REJECTION AND REPLACEMENT. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.
21. CONSTRUCTION MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED SO AS TO PREVENT DAMAGE OR DETERIORATION UNTIL USED. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK.
22. ALL EQUIPMENT SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
23. CONTRACTOR SHALL PERFORM THEIR CONSTRUCTION AND OPERATIONS IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) AS OUTLINED IN THE BROCHURES ENTITLED "BEST MANAGEMENT PRACTICE FOR THE CONSTRUCTION INDUSTRY" ISSUED BY THE CALIFORNIA STORM WATER QUALITY ASSOCIATION, NONPOINT SOURCE POLLUTION CONTROL PROGRAM, TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION. THE CONTRACTOR SHALL PRESENT THEIR PROPOSED BMP AT THE PRECONSTRUCTION MEETING FOR DISCUSSION AND APPROVAL.
24. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING PER CONTRACT DOCUMENTS TO SERVE LIMIT OF WORK AREAS. FENCING MAY BE ADJUSTED DURING CONSTRUCTION BASED ON CONSTRUCTION SEQUENCE OR DISTRICT REPRESENTATIVE'S DIRECTION.
25. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.

## DSA SUPPLEMENTARY CONDITIONS

1. NO DEFFERRED SUBMITTALS ON THIS PROJECT. [FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.]
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
7. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(c) PART 1, TITLE 24 CCR.

* THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS HAS BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTION 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336 , 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B))

TIM D. HYDE, STRUCTURAL ENGINEER

LICENSE # S3260
EXP. DATE 03/31/2021

## APPLICABLE CODES

1. 2016 CBC CHAPTER 35: PROVIDE ALL THE APPLICABLE/ADOPTED STANDARDS. WHERE A PARTICULAR STANDARD IS REFERENCED IN THE CODE BUT DOES NOT APPEAR AS AN ADOPTED STANDARD IT MAY STILL BE USED. APPLY ONLY THE PORTION OF THE STANDARD THAT IS APPLICABLE TO THE CODE SECTION WHERE THE STANDARD IS REFERENCED, NOT THE ENTIRE STANDARD.

   2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
   2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
   (2015 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2016 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
   (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
   (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA PLUMBING CODE (CDC), PART 5, TITLE 24 C.C.R.
   (2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
   2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
   (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
   2016 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
   (2015 INTERNATIONAL EXISTING BUILDING CODE AND 2016CALIFORNIA AMENDMENTS]
   2016 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R.
   2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
   2016 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

   LIST OF FEDERAL CODES AND STANDARDS (IF APPLICABLE)

| | |
|---|---|
| AMERICANS WITH DISABILITIES ACT (ADA), TITLE II OR TITLE III | |
| FOR TITLE II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) | 28 CFR 35.151(c) |
| OR ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) | |
| FOR TITLE III: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) | 28 CFR 36.406 |
| 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN | |

   NOTE: TITLE II APPLIES TO PROJECTS FUNDED AND/OR USED BY STATE AND LOCAL GOVERNMENT SERVICES. TITLE III COVERS PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES. DEPENDING ON THE USE AND FUNDING, BOTH TITLE MAY APPLY TO THE PROJECT.

| | | |
|---|---|---|
| NFPA 13 | AUTOMATIC SPRINKLER SYSTEMS | 2016 EDITION |
| NFPA 14 | STANDPIPE SYSTEMS | 2013 EDITION |
| NFPA 17 | DRY CHEMICAL EXTINGUISHING SYSTEMS | 2013 EDITION |
| NFPA 17A | WET CHEMICAL EXTINGUISHING SYSTEMS | 2013 EDITION |
| NFPA 20 | STATIONARY FIRE PUMPS | 2016 EDITION |
| NFPA 24 | PRIVATE FIRE SERVICE MAINS | 2016 EDITION |
| NFPA 72 | NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES) | 2016 EDITION |
| NFPA 253 | CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS | 2015 EDITION |
| NFPA 2001 | CLEAN AGENT FIRE EXTINGUISHING SYSTEMS | 2015 EDITION |
| ASME A17.1 | ELEVATOR STANDARD | 2013 EDITION |

   REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

   ADA STANDARD FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)

2. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
3. ALL EXISTING FIRE EXTINGUISHING SYSTEMS ARE IN COMPLIANCE WITH UL 300, CBC 904.11, CFC 904.11.

## CONTACT INFORMATION

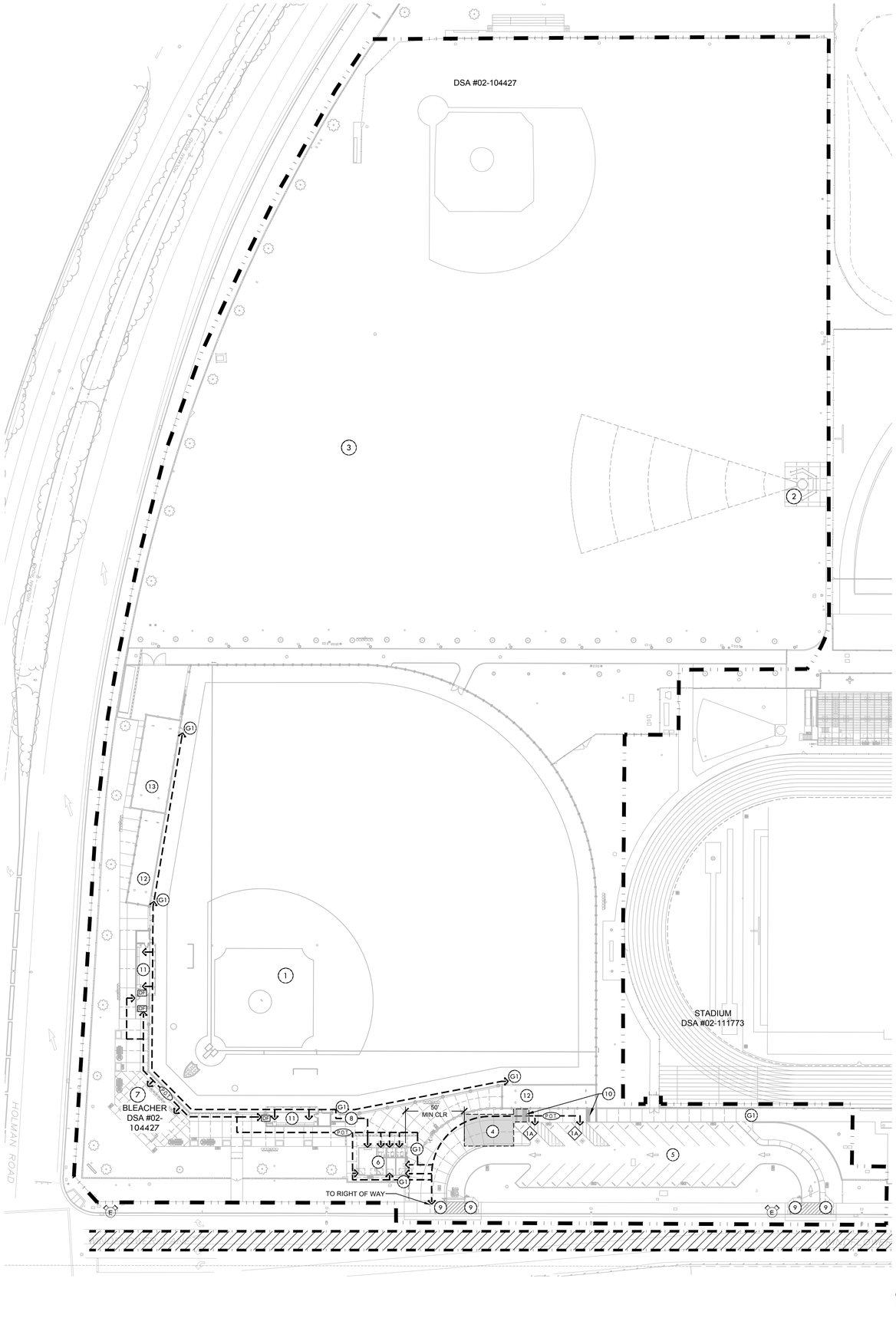
| ORGANIZATION | NAME | PHONE |
|---|---|---|
| OWNER: | | |
| STOCKTON UNIFIED SCHOOL DISTRICT | STEVE BREAKFIELD<br>DAVID VARELLA | (209) 933-7045x2341<br>(209) 933-7045x2828 |
| CIVIL ENGINEER/LANDSCAPE ARCHITECT: | | |
| VERDE DESIGN INC. | CHRIS SULLIVAN<br>MARK BAGINSKI | (916) 996-5525<br>(408) 850-3411 |
| STRUCTURAL ENGINEER: | | |
| AHEARN, KNOX & HYDE | TIM HYDE | (408) 978-1970 |
| ELECTRICAL ENGINEER: | | |
| AMERICAN CONSULTING ENGINEERS ELECTRICAL | SAMMY FERNANDEZ | (408) 236-2312 |
| ARCHITECT: | | |
| WILLIAM C. KEMPF ARCHITECT | WILLIAM KEMPF | (831) 459-0951 |
| BUILDING CONSULTANT: | | |
| ENVIROPLEX | GAYLENE GIVENS | (209) 922-0722 |
| SPORT FIELD LIGHTING CONSULTANT: | | |
| MUSCO LIGHTING | BOB CROOKHAM | (530) 672-9500 |
| GEOTECHNICAL ENGINEER: | | |
| WALLACE - KUHL & ASSOCIATES, INC. | MATT MOYNEUR | (209) 372-1434 |

## SHEET INDEX (122 Sheets)



CHAVEZ HIGH SCHOOL ATHLETIC FACILITY IMPROVEMENTS

DSA BACKCHECK SUBMITTAL - 03/27/20




## ACCESSIBILITY LEGEND

| SYM | DESCRIPTION | DTL REF |
|---|---|---|
| | PROJECT LIMIT OF WORK | |
| P.O.T. | ACCESSIBLE PATH OF TRAVEL | |
| | FIRE DEPARTMENT ACCESS (20' WIDE & RATED 96,000 LBS) | |
| | PEDESTRIAN ACCESS | |
| DF | NEW ACCESSIBLE DRINKING FOUNTAINS | H/I D1.1 |
| E | EXISTING FIRE HYDRANT | |
| # | NUMBER OF PARKING STALLS | |
| #VA | NUMBER OF ACCESSIBLE PARKING STALLS | A D3.0 |
| G1 | PROPOSED ACCESSIBLE GATE- 4' WIDE | A,B,C D4.1 |
| 1 | PROPOSED BASEBALL FIELD (SYNTHETIC TURF) | |
| 2 | PROPOSED DISCUS | |
| 3 | PROPOSED MULTIUSE FIELD RENOVATION (NATURAL GRASS) | |
| 4 | SAFE DISPERSAL AREA ( 27'x42' + 11'x13' = 1277 SF) | |
| 5 | PROPOSED PARKING LOT (28 TOTAL STALLS) | |
| 6 | PROPOSED ACCESSIBLE RESTROOMS/CONCESSION/TICKET BUILDING (REFER TO ENVIROPLEX PLANS) | |
| 7 | EXISTING BLEACHERS | |
| 8 | PROPOSED RAMP @ DUGOUT | J D3.0 |
| 9 | PROPOSED RAMP @ CROSSWALK | I D3.0 |
| 10 | PROPOSED CURB RAMP (PARKING LOT) | A D3.0 |
| 11 | PROPOSED DUGOUTS (REFER TO A8.0 AND A8.1) | |
| 12 | PROPOSED BULLPENS | A/B D5.1 |
| 13 | PROPOSED BATTING CAGE | E D5.1 |

## ACCESSIBILITY PLAN NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING ½" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING ¼" MAX. AND A LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. GRATING WHICH OCCUR WITHIN THE P.O.T. SHALL HAVE GRID OPENINGS AT ½" MAXIMUM IN THE DIRECTION OF TRAFFIC FLOW PER CBC SECTION 11B-302.3.
2. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
3. "PASSING SPACES (11B-403.5.3) OF 60"X60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS HAVE 60" IN LENGTH OF LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE REQUIRED FOR ACCESSIBLE ROUTES(11B-307.5). THERE IS NO DROP-OFF OVER 4" AT THE EDGE OF WALK OR LANDING UNLESS IDENTIFIED BY A GUARD, A HANDRAIL, OR A WARNING CURB AT LEAST 6" IN HEIGHT ABOVE THE WALK(11B-303.5)."
4. ACCESSIBLE PARKING
   SIGNAGE REQUIREMENTS: THE AMENDED REGULATIONS INDICATE THAT THE SIGNAGE AT ACCESSIBLE PARKING SPACES SHALL INCLUDE "MINIMUM FINE $250" BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS EITHER AN ADDITIONAL SIGN OR ADDITIONAL LANGUAGE. THIS FINE POSTING REQUIREMENT IS IN ADDITION TO OTHER SIGNAGE REGULATIONS CONTAINED IN THE CALIFORNIA BUILDING CODE FOR ACCESSIBLE PARKING SPACES.

   STRIPING REQUIREMENTS: THE REVISED REGULATIONS INDICATE THAT THE ACCESSIBLE PARKING SPACE STRIPING SHALL BE AS FOLLOWS. THE BORDER (PERIMETER) SHALL BE PAINTED BLUE. THE HATCHING WITHIN THE LOADING AND UNLOADING ACCESS AISLE SHALL BE PAINTED A SUITABLE CONTRASTING COLOR TO THE PARKING SPACE AT 3'-0" MAXIMUM ON CENTER. BLUE OR WHITE PAINT IS PREFERRED.

CBC 11B 208.2
DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A "CONSTRUCTION CHANGE DOCUMENT" (FORM DSA 140).

## SAFE DISPERSAL AREA

| AREA | OCCUPANCY | CALCULATIONS (PER CBC 1004.2.1) |
|---|---|---|
| EXISTING BASEBALL BLEACHERS | 208 (INCLUDES 2 ADA) | TOTAL OCCUPANCY LOAD = 208 PEOPLE<br>REQUIRED SAFE DISPERSAL AREA: 208 X 5 SQ FT. = 1040 SQ FT.<br>PROVIDED AREA = 1040 SQ FT. |
| BASEBALL FIELD & DUGOUTS | 42 | TOTAL OCCUPANCY LOAD = 42 PEOPLE<br>REQUIRED SAFE DISPERSAL AREA: 42 X 5 SQ FT. = 210 SQ FT.<br>PROVIDED AREA = 210 SQ FT. |
| CONCESSION/ TICKET | 5 | TOTAL OCCUPANCY LOAD = 5 PEOPLE<br>REQUIRED SAFE DISPERSAL AREA: 5 X 5 SQ FT. = 25 SQ FT.<br>PROVIDED AREA = 25 SQ FT. |

## PARKING COUNTS

| TOTAL (e) | (e) STANDARD | (e) #VA | (e) #FV | REQUIRED ADA STALLS | REQUIRED #FV | TOTAL NEW PARKING REQUIRED |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

PROPOSED PARKING

| STANDARD | #VA | #FV | TOTAL |
|---|---|---|---|
| 26 | 1 | 1 | 28 |

**DSA** **810**

## FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1–3 below is to be provided for all project types indicated above. Information associated with items 4–7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 *and* 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

| PROJECT INFORMATION | |
|---|---|
| School District/Owner: Stockton Unified School District | LFA: STOCKTON FIRE DEPT. |
| Project Name/School: Chavez High School | PHIL Simon, Assistant Fire Marshal |
| Project Address: 2929 Windflower Lane, Stockton, CA 95212 | 10/24/19 |

| FIRE & LIFE SAFETY INFOMATION | | | | | |
|---|---|---|---|---|---|
| 1. | Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)* | Yes ☐ | | No ☒ | |
| 2. | Was the fire hydrant water flow test performed as part of this LFA review? | Yes ☐ | | No ☒ | |
| 3. | Is the project located within a designated fire hazard severity zone as established by Cal-Fire? *(If yes, indicate fire hazard zone classification below)* | Yes ☐ | | No ☒ | |
| | Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps | Moderate ☐ | High ☐ | Very High ☐ | |
| | Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)* | | | WIFA ☐ | |

| CONDITION MEANS AND METHODS RESOLUTION | | ALTERNATE ACCEPTED | | | |
|---|---|---|---|---|---|
| | | Yes | No | N/A | N/R |
| 4. | Emergency vehicle access roadways do not meet CFC requirements. | | X | | |
| 4a. | **Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property. | X | | | |
| 5. | **Fire Hydrants:** Number and spacing does not meet CFC requirements. | | X | | |
| 5a. | **Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property. | X | | | |
| 6. | **Fire Hydrants:** Water flow and pressure are less than CFC minimum. | | | X | |
| 6a. | **Acceptable Alternate**: The available flow and pressure is acceptable for providing fire suppression and protection of life and property. | | | X | |
| 7. | Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements. | | | X | |
| 7a. | **Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property. | | | X | |



DSA 810
**FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

**School District Acceptance of Acceptable Design Alternates**

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: STEVE L. BREAKFIELD Title: DIRECTOR

Signature: Steve L Breakfield Date: 12/20/19

| LOCAL FIRE AUTHORITY (LFA) INFORMATION |
|---|
| LFA Agency Name: Stockton Fire Department |
| LFA Review Official: Phil Simon |
| Title: Assistant Fire Marshal |
| Work E-mail: philsimon@stocktonca.gov |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
ACCESSIBILITY PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

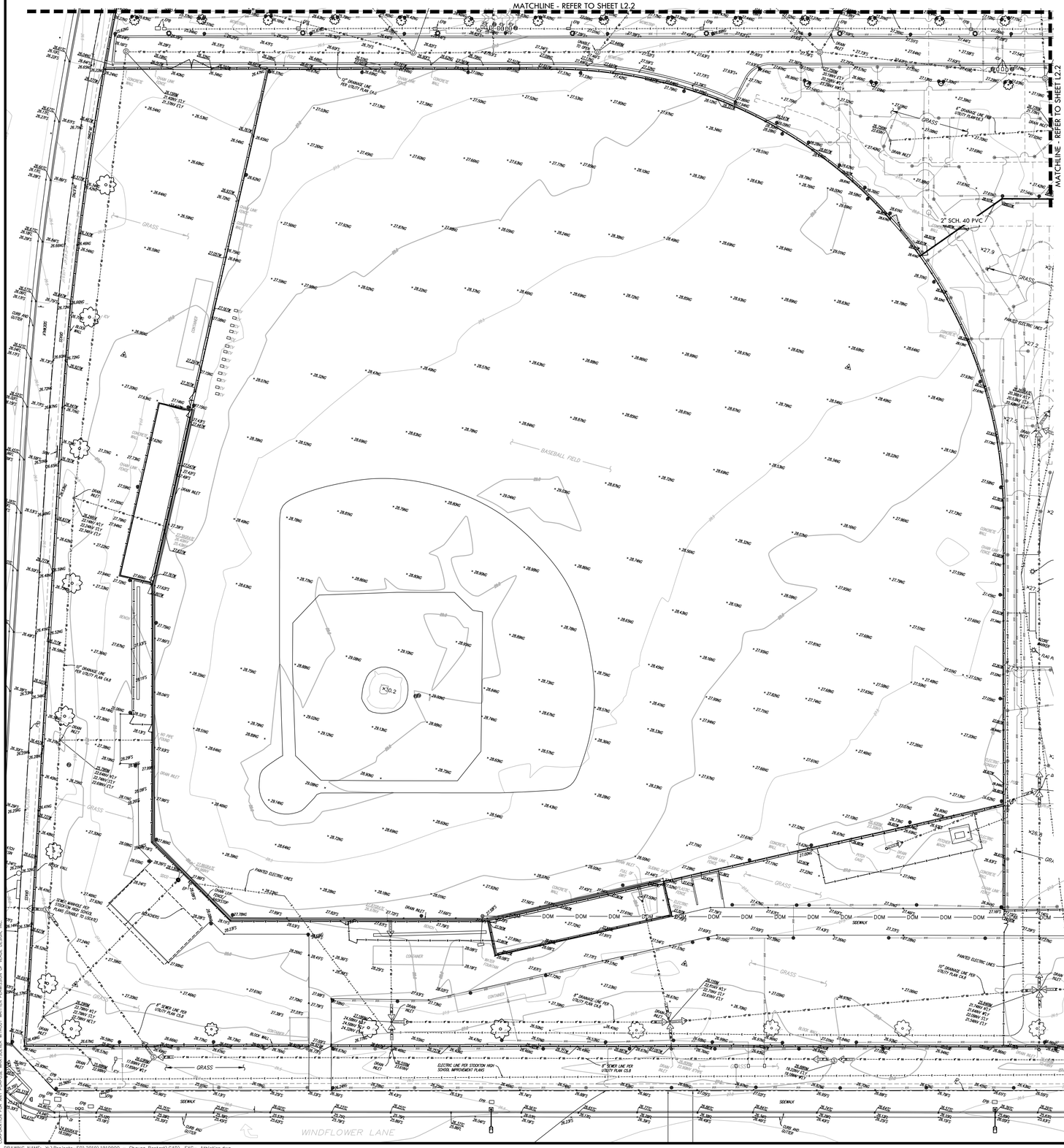
| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

DRAWN BY: HM | CHECKED BY: CS
DATE ISSUED: 03/27/20 | SCALE: 1" = 40'-0"
PROJ. NO.: 1910900-1211
SHEET NO.: L1.0 2 OF 122

ACCESSIBILITY PLAN



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_ACC- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40




# EXISTING CONDITIONS NOTES

1. SURVEY PROVIDED BY: CAL VADA SURVEYING, INC.
2. ASSESSOR'S PARCEL NO.: 130-040-03
3. ELEVATIONS SHOWN HEREON ARE BASED UPON STOCKTON CITY BENCHMARK 341, ELEVATION 28.83 FEET (NAVD 88):
   5/8" ALUMINUM ROD DRIVEN TO REFUSAL WITH 2-1/2" DIAMETER ALUMINUM CAP STAMPED "WELL 26, L.S. 4334," IN AN ALUMINUM MONUMENT WELL WITH SCREW LOCKING COVER; BENCH MARK IN LOCATED WITHIN THE LOCKED CITY OF STOCKTON WELL SITE NO. 26, ON SOUTH SIDE OF HAMMER LN, ON THE WEST SIDE OF THE EBMUD RIGHT-OF-WAY. THE POINT LIES IN CENTER OF PAVED AREA EAST OF WELL BUILDING. CONTACT THE CITY OF STOCKTON SURVEYS SECTION FOR ACCESS.
4. FIELD COMPLETION DATE: 08/07/19
5. FINAL SURVEY ISSUED: 10/15/19, UPDATED 11/26/19
6. THE BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 3, (2017.50) IN ACCORDANCE TO THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID BEARINGS ARE DETERMINED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING CALIFORNIA SPATIAL REFERENCE NETWORK CONTINUOUS OPERATING REFERENCE STATIONS (C.O.R.S.):

C.S.R.C. P273:
NORTHING = 2229969.53' EASTING = 6306178.61'

C.S.R.C. P309:
NORTHING = 2219667.30' EASTING = 6431806.86'

## CONTROL POINTS

| CP# | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|---|---|---|---|---|
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| MON# | DESCRIPTION |
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| M42 | FD. 3/4" REBAR WITH PLASTIC PLUG TAGGED LS 7520 |
| M43 | FD. 3/4" REBAR WITH PLASTIC PLUG TAGGED LS 7520 |

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| | |
|---|---|
| APN | ASSESSOR'S PARCEL NUMBER |
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| DI | DRAIN INLET |
| EP | ELECTRIC PANEL |
| EPB | ELECTRIC PULL BOX |
| EV | ELECTRIC VAULT |
| FF | FINISH FLOOR |
| FS | FINISH SURFACE |
| FL | FLOW LINE |
| HCR | HANDICAP RAMP |
| INV | INVERT |
| ICV | IRRIGATION CONTROL VALVE |
| NG | NATURAL GROUND |
| SDCO | STORM DRAIN CLEAN OUT |
| TOE | TOE OF SLOPE |
| TC | TOP OF CURB |
| TOS | TOP OF SLOPE |
| TYP | TYPICAL |
| UB | UTILITY BOX |
| WV | WATER VAULT |
| | ASPHALT PAVEMENT |
| | BACK-FLOW VALVE |
| | BASKETBALL |
| | CONCRETE PAVEMENT |
| | CONTROL POINT |
| | FIRE DEPARTMENT CONNECTION |
| | FIRE HYDRANT |
| | FOUND MONUMENT AS NOTED |
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| | GROUND ELECTRIC |
| | IRRIGATION CONTROL VALVE |
| | LIGHT STANDARD |
| | MANHOLE |
| | POST INDICATOR VALVE |
| | SEWER CLEAN OUT |
| | SEWER MANHOLE |
| | SIGN |
| | STAIRS SHOWING DOWNWARD DIRECTION |
| | STORM DRAIN MANHOLE |
| | STREET LIGHT |
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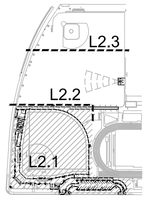
LICENSED LAND SURVEYOR
Armando D. DuPont
L.S. 7780
Exp. 12-31-19
STATE OF CALIFORNIA

Armando D. DuPont
Registration No. 7780

CONSULTANT

CAL VADA SURVEYING, INC.
411 Jenks Cir., Suite 205, Corona, CA 92880
Phone: 951-280-9960 Fax: 951-280-9746
Toll Free: 800-CALVADA www.calvada.com
EST. 1989 JOB NO. 19396

KEYMAP




SHEET TITLE

EXISTING CONDITIONS PLAN - BASEBALL FIELD

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
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| NO. | REVISIONS | DATE |
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| DRAWN BY | CHECKED BY |
|---|---|
| AC | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |

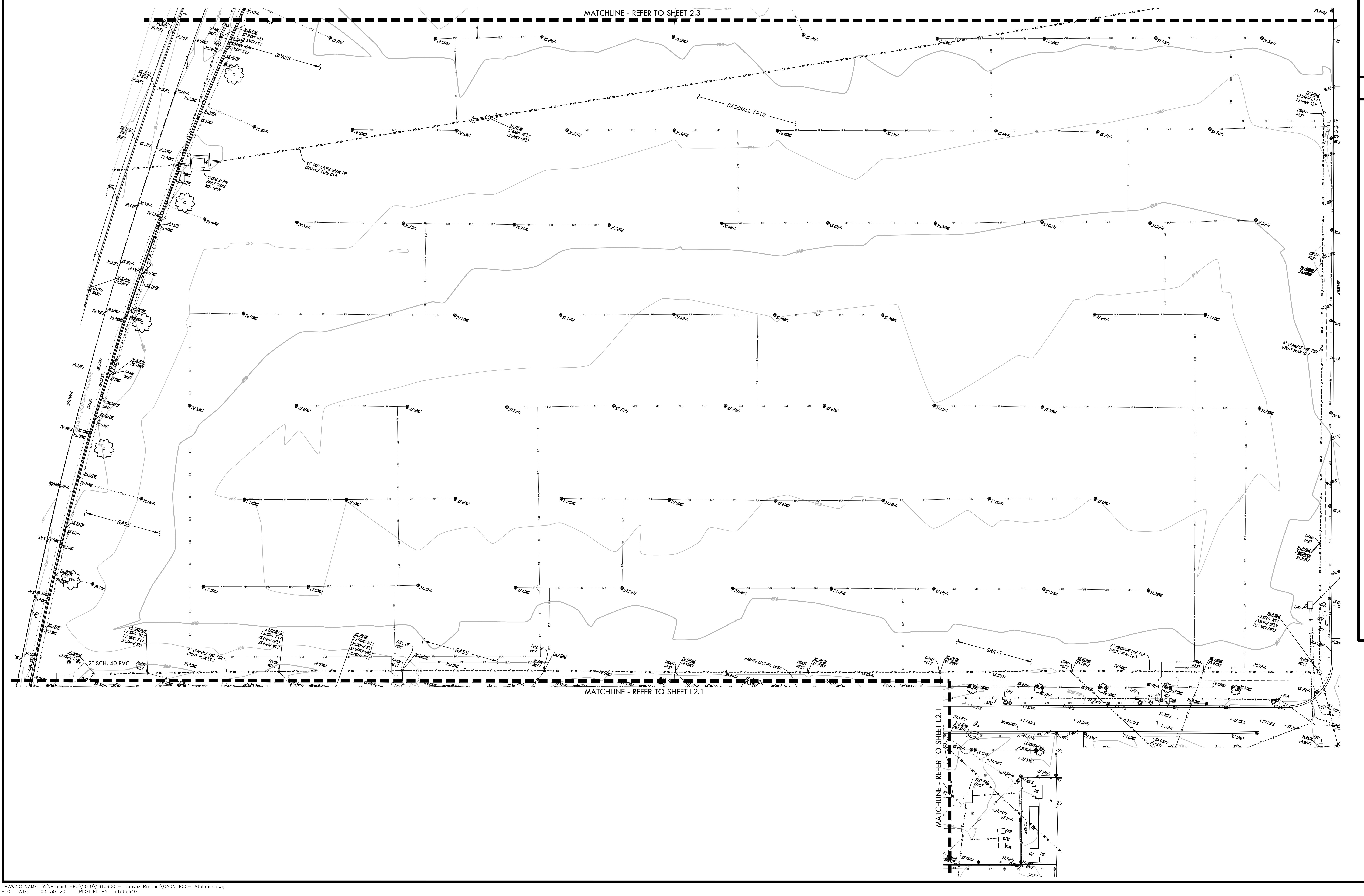
PROJ. NO.
1910900-1211

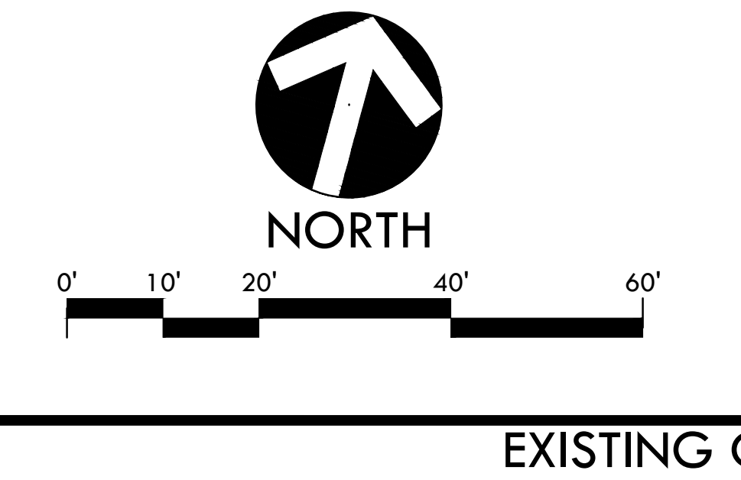
SHEET NO.
L2.1
3 OF 122

EXISTING CONDITIONS PLAN - BASEBALL FIELD



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_EXC- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40





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| INV | INVERT |
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| UB | UTILITY BOX |
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| ▬ | ASPHALT PAVEMENT |
| | BACK-FLOW VALVE |
| | BASKETBALL |
| ▨ | CONCRETE PAVEMENT |
| ◬ | CONTROL POINT |
| | FIRE DEPARTMENT CONNECTION |
| | FIRE HYDRANT |
| ◉ | FOUND MONUMENT AS NOTED |
| | GATE |
| Ⓖ | GROUND ELECTRIC |
| (ICV) | IRRIGATION CONTROL VALVE |
| ☼ | LIGHT STANDARD |
| | MANHOLE |
| (PIV) | POST INDICATOR VALVE |
| Ⓒ | SEWER CLEAN OUT |
| Ⓢ | SEWER MANHOLE |
| | SIGN |
| | STAIRS SHOWING DOWNWARD DIRECTION |
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| | STREET LIGHT |
| | TRAFFIC LIGHT |
| | TREE (TYPICAL) |
| ◎ | WATER SPRINKLER |
| ⊗ | WATER VALVE |
| —x—x—x—x—x— | CHAIN LINK FENCE |
| ━━━ | CONCRETE/RETAINING WALL |
| | EDGE OF PAVEMENT |
| ——E——E——E——E—— | ELECTRIC LINE |
| ——SS——SS——SS——SS—— | SANITARY SEWER LINE |
| ——SD——SD——SD——SD—— | STORM DRAIN LINE |
| ——T——T——T——T—— | TELECOM LINE |
| —··TOE··—··TOE··—··TOE··— | TOE OF SLOPE |
| —··TOS··—··TOS··—··TOS··— | TOP OF SLOPE |
| ——W——W——W——W—— | WATER LINE |
| —— DOM —— | DOMESTIC WATER LINE |
| 26.5 | CONTOUR |
| ——IRR——IRR—— | EXISTING IRRIGATION LATERAL LINE PER DISTRICT PROVIDED AS-BUILT DRAWINGS |
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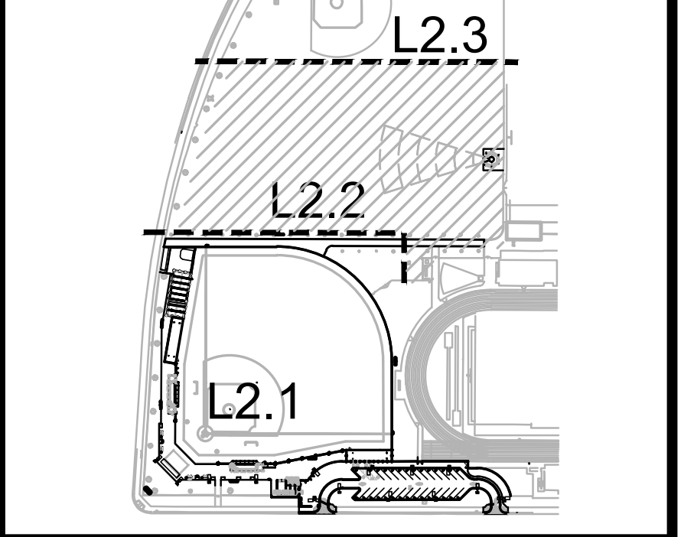
KEYMAP



SHEET TITLE

EXISTING
CONDITIONS PLAN -
MULTI-USE SOUTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
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ATHLETIC FACILITY
IMPROVEMENTS

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DRAWN BY
AC

CHECKED BY
CS

DATE ISSUED
03/27/20

SCALE
1" = 20'-0"

PROJ. NO.
1910900-1211

SHEET NO.
L2.2

4 OF 122

EXISTING CONDITIONS PLAN - MULTI-USE SOUTH

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_EXC- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

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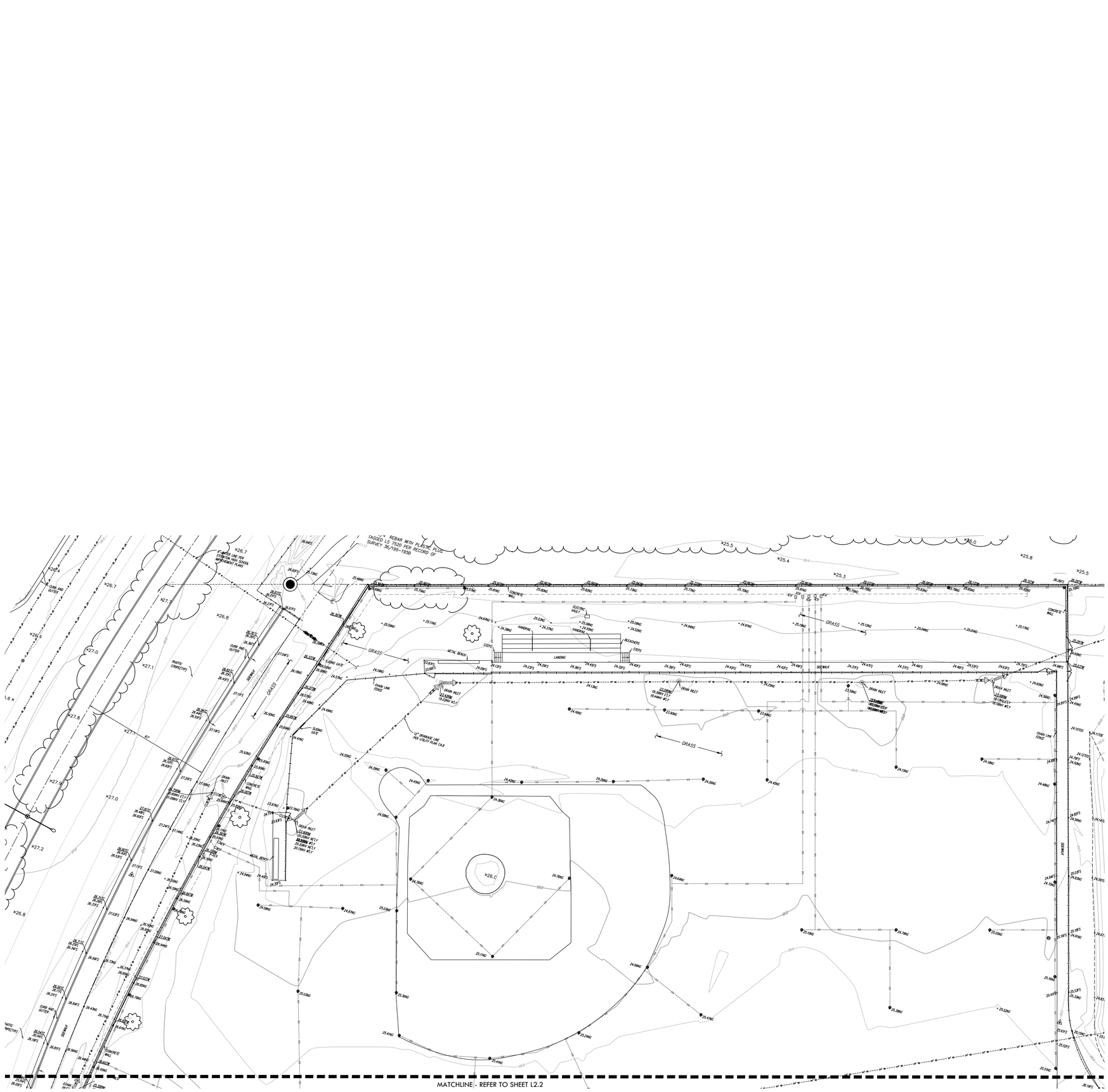
| M41 | FD. 3/4" REBAR WITH PLASTIC PLUG TAGGED LS 7520 |
| M42 | FD. 3/4" REBAR WITH PLASTIC PLUG TAGGED LS 7520 |
| M43 | FD. 3/4" REBAR WITH PLASTIC PLUG TAGGED LS 7520 |

# EXISTING CONDITIONS LEGEND

| | |
|---|---|
| APN | ASSESSOR'S PARCEL NUMBER |
| CB | CATCH BASIN |
| DI | DRAIN INLET |
| EP | ELECTRIC PANEL |
| EPB | ELECTRIC PULL BOX |
| EV | ELECTRIC VAULT |
| FF | FINISH FLOOR |
| FS | FINISH SURFACE |
| FL | FLOW LINE |
| HCR | HANDICAP RAMP |
| INV | INVERT |
| ICV | IRRIGATION CONTROL VALVE |
| NG | NATURAL GROUND |
| SDCO | STORM DRAIN CLEAN OUT |
| TOE | TOE OF SLOPE |
| TC | TOP OF CURB |
| TOS | TOP OF SLOPE |
| TYP | TYPICAL |
| UB | UTILITY BOX |
| WV | WATER VAULT |
| | ASPHALT PAVEMENT |
| | BACK-FLOW VALVE |
| | BASKETBALL |
| | CONCRETE PAVEMENT |
| | CONTROL POINT |
| | FIRE DEPARTMENT CONNECTION |
| | FIRE HYDRANT |
| | FOUND MONUMENT AS NOTED |
| | GATE |
| | GROUND ELECTRIC |
| | IRRIGATION CONTROL VALVE |
| | LIGHT STANDARD |
| | MANHOLE |
| | POST INDICATOR VALVE |
| | SEWER CLEAN OUT |
| | SEWER MANHOLE |
| | SIGN |
| | STAIRS SHOWING DOWNWARD DIRECTION |
| | STORM DRAIN MANHOLE |
| | STREET LIGHT |
| | TRAFFIC LIGHT |
| | TREE (TYPICAL) |
| | WATER SPRINKLER |
| | WATER VALVE |
| | CHAIN LINK FENCE |
| | CONCRETE/RETAINING WALL |
| | EDGE OF PAVEMENT |
| | ELECTRIC LINE |
| | SANITARY SEWER LINE |
| | STORM DRAIN LINE |
| | TELECOM LINE |
| | TOE OF SLOPE |
| | TOP OF SLOPE |
| | WATER LINE |
| DOM | DOMESTIC WATER LINE |
| 24.5 | CONTOUR |
| | EXISTING IRRIGATION LATERAL LINE PER DISTRICT PROVIDED AS-BUILT DRAWINGS |
| | EXISTING IRRIGATION IRRIGATION MAINLINE OR QUICK COUPLER MAINLINE PER DISTRICT PROVIDED AS-BUILT DRAWINGS |




IDENTIFICATION STAMP
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DATE: 04/10/2020

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tel: 916.415.6554
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STAMP

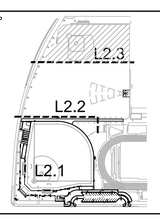
LICENSED LAND SURVEYOR
Armando D. DuPont
L.S. 7780
Exp. 12-31-19
STATE OF CALIFORNIA

Armando D. DuPont
Registration No. 7780

CONSULTANT

CAL VADA SURVEYING, INC.
411 Lenkurt Cir., Suite 205, Corona, CA 92880
Phone: 951-280-9960 Fax: 951-280-9746
Toll Free: 800-CALVADA www.calvada.com
EST. 1989 JOB NO. 19396

KEYMAP




SHEET TITLE

EXISTING CONDITIONS PLAN - MULTI-USE NORTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
| | |

| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
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| DRAWN BY | CHECKED BY |
|---|---|
| AC | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |

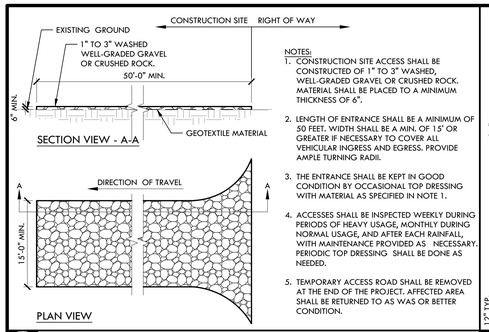
PROJ. NO. 1910900-1211

SHEET NO. L2.3

5 OF 122

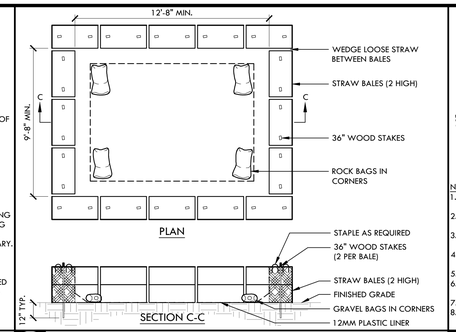


DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_EXC- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

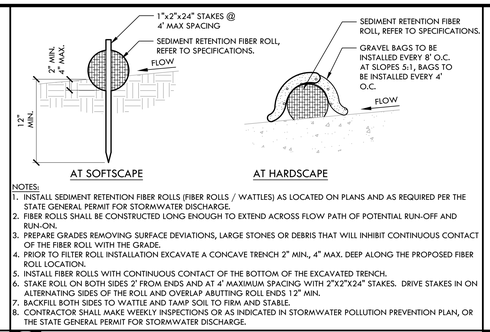



NOTES:
1. CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 1" TO 3" WASHED, WELL-GRADED GRAVEL OR CRUSHED ROCK. MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 6".
2. LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50 FEET. WIDTH SHALL BE A MIN. OF 15' OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADII.
3. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH MATERIAL AS SPECIFIED IN NOTE 1.
4. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.
5. TEMPORARY ACCESS ROAD SHALL BE REMOVED AT THE END OF THE PROJECT. AFFECTED AREA SHALL BE RETURNED TO AS WAS OR BETTER CONDITION.

## A STABILIZED CONSTRUCTION ENTRY NTS

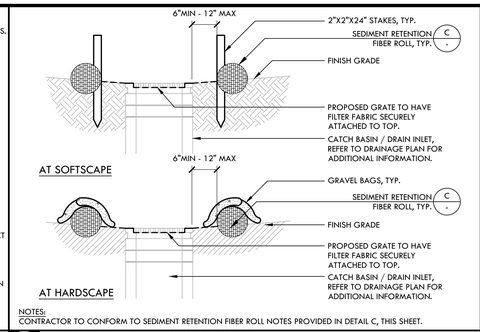



## B TEMPORARY CONCRETE WASHOUT FACILITY NTS



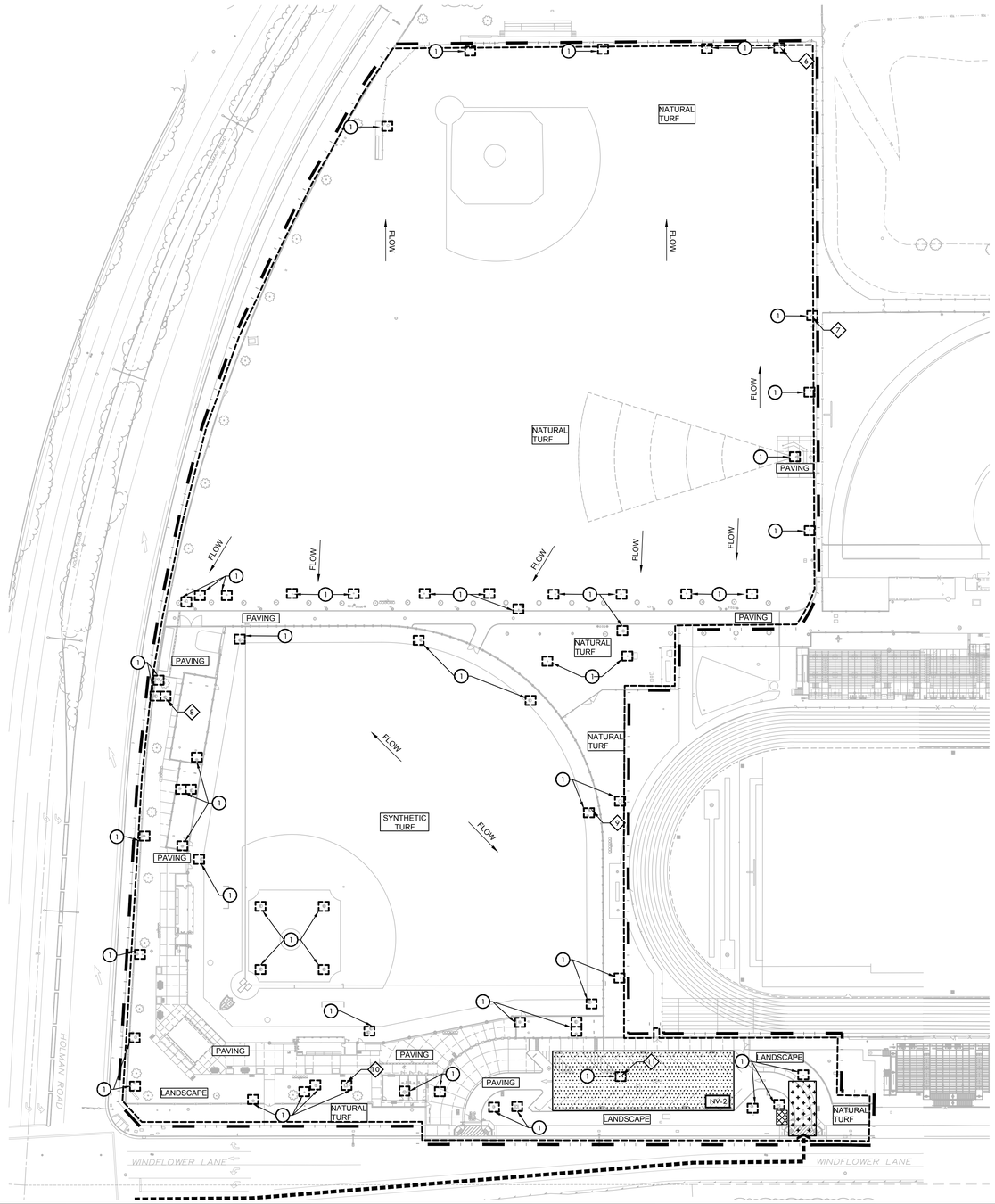

NOTES:
1. INSTALL SEDIMENT RETENTION FIBER ROLLS (FIBER ROLLS / WATTLES) AS LOCATED ON PLANS AND AS REQUIRED PER THE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE.
2. FIBER ROLLS SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS FLOW PATH OF POTENTIAL RUN-OFF AND RUN-ON.
3. PREPARE GRADES REMOVING SURFACE DEVIATIONS, LARGE STONES OR DEBRIS THAT WILL INHIBIT CONTINUOUS CONTACT OF THE FIBER ROLL WITH THE GRADE.
4. PRIOR TO FILTER ROLL INSTALLATION EXCAVATE A CONCAVE TRENCH 2" MIN., 4" MAX. DEEP ALONG THE PROPOSED FIBER ROLL LOCATION.
5. INSTALL FIBER ROLLS WITH CONTINUOUS CONTACT OF THE BOTTOM OF THE EXCAVATED TRENCH.
6. STAKE ROLL ON BOTH SIDES 2' FROM ENDS AND AT 4' MAXIMUM SPACING WITH 2"X2"X24" STAKES. DRIVE STAKES IN ON ALTERNATING SIDES OF THE ROLL AND OVERLAP ABUTTING ROLL ENDS 12" MIN.
7. BACKFILL BOTH SIDES TO WATTLE AND TAMP SOIL TO FIRM AND STABLE.
8. CONTRACTOR SHALL MAKE WEEKLY INSPECTIONS OR AS INDICATED IN STORMWATER POLLUTION PREVENTION PLAN, OR THE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE.

## C SEDIMENT RETENTION FIBER ROLL NTS




NOTES:
CONTRACTOR TO CONFORM TO SEDIMENT RETENTION FIBER ROLL NOTES PROVIDED IN DETAIL C, THIS SHEET.

## D STORM DRAIN INLET FILTER FOR EXISTING AND PROPOSED STORM DRAINS NTS




## EROSION/SEDIMENTATION CONTROL NOTES

1. EROSION/SEDIMENTATION CONTROL PLAN SHALL BE CONSTRUCTED DURING FIRST WEEK OF CONSTRUCTION.
2. EROSION/SEDIMENTATION CONTROL PLAN SHALL REMAIN THROUGHOUT CONSTRUCTION AND DISPOSED DURING MAINTENANCE PERIOD.
3. EROSION/SEDIMENTATION CONTROL PLAN MAY BE ADJUSTED THROUGH CONSTRUCTION WITH APPROVAL OR AS DIRECTED BY DISTRICT'S REPRESENTATIVE.
4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WEEKLY WITH STREET SWEEPER.

## EROSION/SEDIMENTATION CONTROL LEGEND

| SYM | DESCRIPTION | DTL REF |
|---|---|---|
| | LIMIT OF WORK | |
| 1 | STORM DRAIN INLET FILTER- FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP AND PERIMETER WADDLE | D - - |
| | SEDIMENT RETENTION FIBER ROLL | C - - |
| | SLOPE DIRECTION | |
| | TEMPORARY CONCRETE WASHOUT FACILITY - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION. | B - - |
| | CONSTRUCTION STAGING AREA | |
| | STABILIZED CONSTRUCTION ENTRY | A - - |
| | PROJECT ACCESS ROAD | |
| 2 | ANTICIPATED DISCHARGE LOCATION, VISUAL MONITORING LOCATION, AND SAMPLING LOCATION | |
| NV-X | NON-VISIBLE POLLUTANT SAMPLING LOCATION | |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APP. 02-118017 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKEN
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
EROSION CONTROL PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
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| DRAWN BY | CHECKED BY |
|---|---|
| HM | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 50'-0" |

PROJ. NO. 1910900-1211

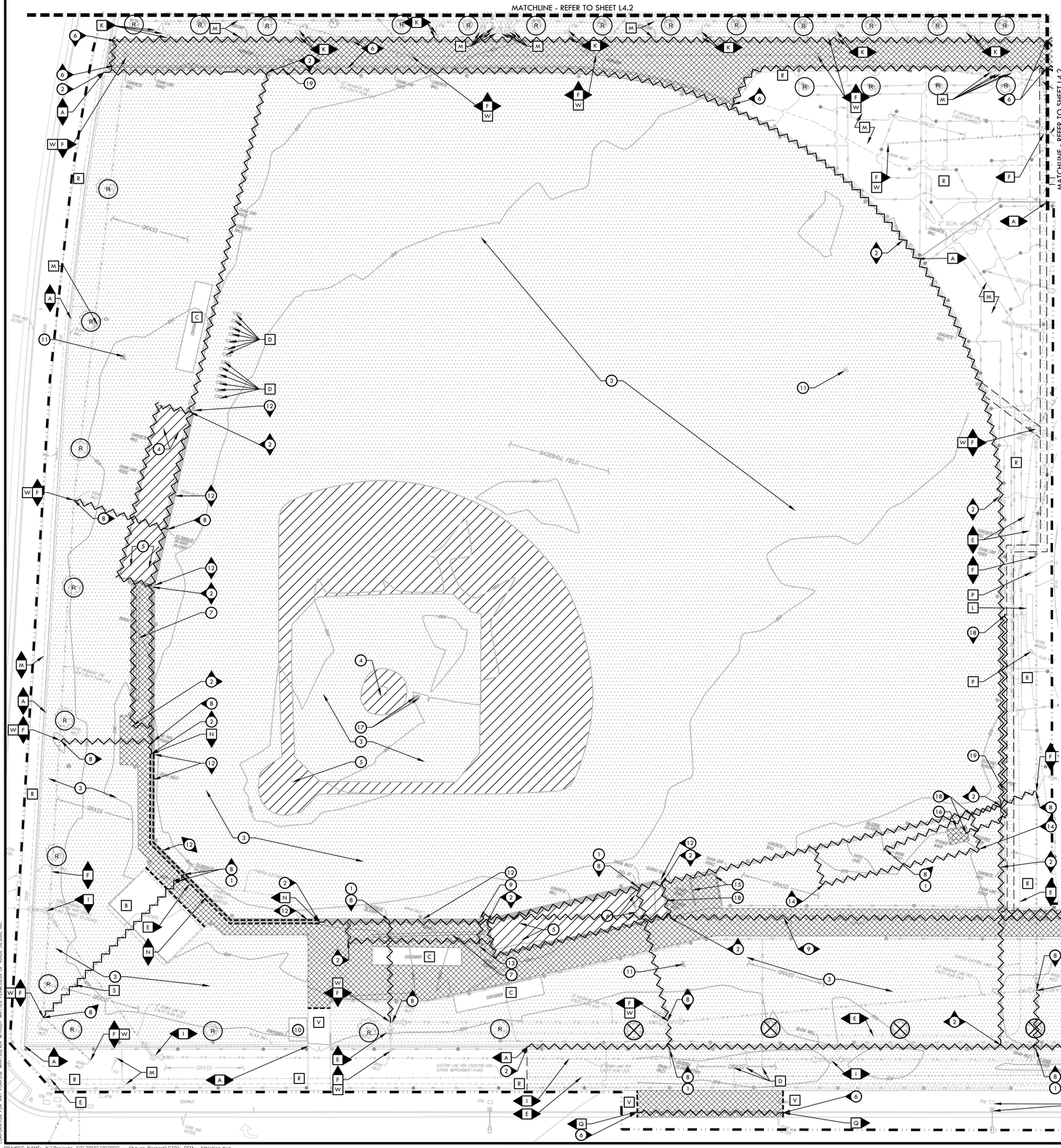
SHEET NO. L3.0 6 OF 122

NORTH
0 25' 50' 100' 150'

EROSION CONTROL PLAN



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_ECP- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40




## ITEMS TO BE PROTECTED

- R — SOFTSCAPE TO REMAIN AND BE PROTECTED. IRRIGATION WITHIN THIS AREA TO REMAIN OPERABLE DURING CONSTRUCTION. ADJUST AS REQUIRED TO ENSURE FULL COVERAGE AFTER CONSTRUCTION.
- S — BENCHMARK TO REMAIN AND BE PROTECTED.
- T — FLOAT VALVE ASSEMBLY AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- U — BALLFIELD FINES, INFIELD, AND ALL ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- V — HARDSCAPE/ WALK TO REMAIN AND BE PROTECTED.
- W — DRAINAGE STRUCTURE REMAIN AND BE PROTECTED. CONTRACTOR TO ADJUST LID AND PROTECT PIPES AS REQUIRED. REFER TO DRAINAGE PLANS.
- X — ELECTRICAL VAULT BOX TO REMAIN AND BE PROTECTED, CONTRACTOR TO POTHOLE TO VERIFY DEPTH PRIOR TO CHEMICAL TREATMENT.

## ITEMS TO BE DEMOLISHED

1. DRAIN STRUCTURE TO BE DEMOLISHED AND REMOVED.
2. EDGEBAND, CURB AND/OR FENCING TO BE DEMOLISHED AND REMOVED. FENCE FOOTINGS TO BE DEMOLISHED AND REMOVED.
3. IRRIGATION VALVES AND ASSOCIATED LATERAL LINES TO BE DEMOLISHED AND REMOVED. CONTROL WIRES SHALL BE PROTECTED WITHIN A NEW VALVE BOX LOCATED IN LANDSCAPE AREA.
4. PITCHER'S PLATE TO BE REMOVED AND TURNED OVER TO DISTRICT.
5. HOMEPLATE TO BE REMOVED AND TURNED OVER TO DISTRICT.
6. SAWCUT EXISTING CURB/EDGEBAND AND/OR GUTTER AT NEAREST JOINT TO ALLOW FOR NEW CURB
7. BENCH TO BE DEMOLISHED AND REMOVED AND TURNED OVER TO DISTRICT.
8. DRAIN LINES TO BE CAPPED, SLURRY FILLED AND ABANDONED IF NOT OBSTRUCTING FUTURE IMPROVEMENTS.
9. UTILITY TO BE DEMOLISHED AND REMOVED.
10. TICKET BOOTH TO BE DEMOLISHED AND REMOVED.
11. BENCHMARK TO BE DEMOLISHED AND REMOVED.
12. CONTRACTOR TO REMOVE TRENCH DRAIN AND CAP STORM DRAIN LINE AT NEAREST BASIN. WHERE TRENCH DRAIN IS ADJACENT TO REMAINING BACKSTOP CONTRACTOR SHALL SAWCUT AND REMOVE TRENCH DRAIN. CONCRETE EDGEBAND UNDER BACKSTOP TO REMAIN AND BE PROTECTED. DEMOLISH AND REMOVED ALL BASEBOARDS.
13. DRINKING FOUNTAIN TO BE DEMOLISHED AND REMOVED.
14. BATTING CAGE POLES AND NETTING TO BE DEMOLISHED AND REMOVED.
15. 2' TALL PLASTIC STORAGE BIN TO BE DEMOLISHED AND REMOVED.
16. CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
17. QUICK COUPLERS TO BE DEMOLISHED AND REMOVED. LINE TO REMAIN ACTIVE AND TIE INTO NEW LOCATIONS PER IRRIGATION PLAN.
18. ELECTRICAL TO BE ADJUSTED AND/OR DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
19. FOUL POLES AND FOOTINGS TO BE DEMOLISHED AND REMOVED.

# DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE DISTRICT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

# DEMOLITION LEGEND

| SYM | DESCRIPTION |
|---|---|
| | LIMIT OF WORK |
| # | KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED |
| # | KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED |
| | SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. REMOVE EXCESS SOIL FROM SITE AND DISPOSED IN LEGAL MANNER. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION. |
| | DEMOLISH AND REMOVE HARDSCAPE PAVING INCLUDING BASE MATERIAL. |
| | INFIELD FINES TO BE STOCKPILED AND USED FOR TOPDRESS AT NORTHERN BALLFIELD (SEE L8.1). REMAINING FINES TO BE DEMOLISHED AND REMOVED. |
| | DEMOLISH AND REMOVE CURB, UTILITY LINE, AND/OR FENCE, INCLUDING POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS |
| | SAWCUT |
| | LIMIT OF CLEAR AND GRUB. CONTRACTOR SHALL CONFIRM WITH GRADING, UTILITIES AND SPECIFICATIONS. |
| ⊗ | TREE SHALL BE DEMOLISHED AND REMOVED, REFER TO SPECIFICATIONS |
| R | TREE TO REMAIN AND BE PROTECTED, REFER TO SPECIFICATIONS |

## ITEMS TO BE PROTECTED

- A — CHAIN LINK FENCE / GATE TO REMAIN AND BE PROTECTED. INCLUDES POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS.
- B — BLEACHERS TO BE REMAIN AND BE PROTECTED, INCLUDING HARDSCAPE.
- C — STORAGE CONTAINERS TO BE RELOCATED. (2) TO BE RELOCATED ONSITE PER L8.1 AND (1) SHALL BE RELOCATED TO STAGG HS. COORDINATE WITH DISTRICT.
- D — APPROXIMATE LOCATION OF IRRIGATION REMOTE CONTROL VALVES, WIRES TO BE SALVAGED AND REUSED FOR NEW VALVES. CONTRACTOR TO DEMOLISH BOXES & VALVES. CONTRACTOR TO VERIFY IRRIGATION CONTROLLER OPERATING THE VALVES PRIOR TO DEMOLITION. REFER TO IRRIGATION PLAN FOR PROPOSED LOCATION.
- E — ELECTRICAL, COMMUNICATION, DATA LINES AND COMPONENTS. REFER TO ELECTRICAL PLANS FOR INFORMATION. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.
- F — DRAINAGE LINES TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.REFER TO DRAINAGE PLANS.
- G — WATER LINE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.
- H — FURNISHINGS TO REMAIN AND BE PROTECTED.
- I — SANITARY SEWER AND PIPES TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.
- J — FIRE HYDRANT AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- K — PEDESTRIAN LIGHT AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- L — SCOREBOARD AND FOOTINGS TO REMAIN AND BE PROTECTED.
- M — IRRIGATION EQUIPMENT, INCLUDING BUT NOT LIMITED TO VALVES, ROTORS, SPRAY HEADS, LATERAL LINES AND MAINLINES TO REMAIN AND BE PROTECTED. REFER TO SHEETS L9.1-L9.3 FOR ADDITIONAL INFORMATION.
- N — BACKSTOP TO REMAIN AND BE PROTECTED, INCLUDING FENCING AND CONCRETE EDGEBAND. BASEBOARDS TO BE REMOVED.
- O — SPORTFIELD LIGHT, LINES AND BOXES TO REMAIN AND BE PROTECTED.
- P — FLAG POLE TO REMAIN AND BE PROTECTED.
- Q — EDGEBAND, CURB AND/OR GUTTER TO REMAIN AND BE PROTECTED.

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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKEN
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE
DEMOLITION PLAN - BASEBALL FIELD

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
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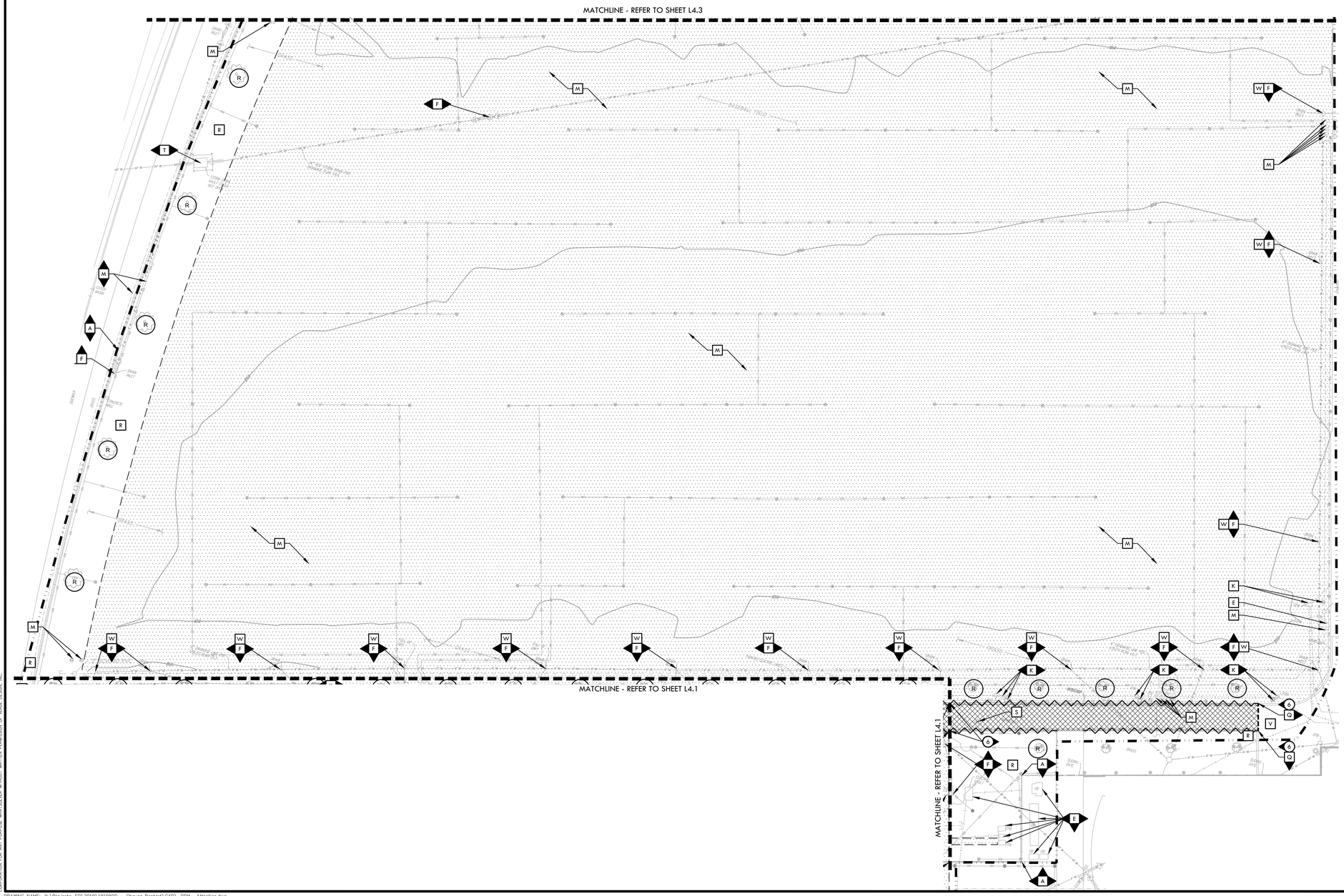
| HM | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |

PROJ. NO.
1910900-1211

SHEET NO.
L4.1
7 OF 122




DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_DEM- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40




## ITEMS TO BE DEMOLISHED

1. DRAIN STRUCTURE TO BE DEMOLISHED AND REMOVED.
2. EDGEBAND, CURB AND/OR FENCING TO BE DEMOLISHED AND REMOVED. FENCE FOOTINGS TO BE DEMOLISHED AND REMOVED.
3. IRRIGATION VALVES AND ASSOCIATED LATERAL LINES TO BE DEMOLISHED AND REMOVED. CONTROL WIRES SHALL BE PROTECTED WITHIN A NEW VALVE BOX LOCATED IN LANDSCAPE AREA.
4. PITCHER'S PLATE TO BE REMOVED AND TURNED OVER TO DISTRICT.
5. HOMEPLATE TO BE REMOVED AND TURNED OVER TO DISTRICT.
6. SAWCUT EXISTING CURB/EDGEBAND AND/OR GUTTER AT NEAREST JOINT TO ALLOW FOR NEW CURB
7. BENCH TO BE DEMOLISHED AND REMOVED AND TURNED OVER TO DISTRICT.
8. DRAIN LINES TO BE CAPPED, SLURRY FILLED AND ABANDONED IF NOT OBSTRUCTING FUTURE IMPROVEMENTS.
9. UTILITY TO BE DEMOLISHED AND REMOVED.
10. TICKET BOOTH TO BE DEMOLISHED AND REMOVED.
11. BENCHMARK TO BE DEMOLISHED AND REMOVED.
12. CONTRACTOR TO REMOVE TRENCH DRAIN AND CAP STORM DRAIN LINE AT NEAREST BASIN. WHERE TRENCH DRAIN IS ADJACENT TO REMAINING BACKSTOP CONTRACTOR SHALL SAWCUT AND REMOVE TRENCH DRAIN. CONCRETE EDGEBAND UNDER BACKSTOP TO REMAIN AND BE PROTECTED. DEMOLISH AND REMOVED ALL BASEBOARDS.
13. DRINKING FOUNTAIN TO BE DEMOLISHED AND REMOVED.
14. BATTING CAGE POLES AND NETTING TO BE DEMOLISHED AND REMOVED.
15. 2' TALL PLASTIC STORAGE BIN TO BE DEMOLISHED AND REMOVED.
16. CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
17. QUICK COUPLERS TO BE DEMOLISHED AND REMOVED. LINE TO REMAIN ACTIVE AND TIE INTO NEW LOCATIONS PER IRRIGATION PLAN.
18. ELECTRICAL TO BE ADJUSTED AND/OR DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
19. FOUL POLES AND FOOTINGS TO BE DEMOLISHED AND REMOVED.

## DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE DISTRICT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

## DEMOLITION LEGEND

| SYM | DESCRIPTION |
|---|---|
| | LIMIT OF WORK |
| # | KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED |
| # | KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED |
| | SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. REMOVE EXCESS SOIL FROM SITE AND DISPOSED IN LEGAL MANNER. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION. |
| | DEMOLISH AND REMOVE HARDSCAPE PAVING INCLUDING BASE MATERIAL. |
| | INFIELD FINES TO BE STOCKPILED AND USED FOR TOPDRESS AT NORTHERN BALLFIELD (SEE L8.1). REMAINING FINES TO BE DEMOLISHED AND REMOVED. |
| | DEMOLISH AND REMOVE CURB, UTILITY LINE, AND/OR FENCE, INCLUDING POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS |
| | SAWCUT |
| | LIMIT OF CLEAR AND GRUB. CONTRACTOR SHALL CONFIRM WITH GRADING, UTILITIES AND SPECIFICATIONS. |
| ⊗ | TREE SHALL BE DEMOLISHED AND REMOVED, REFER TO SPECIFICATIONS |
| R | TREE TO REMAIN AND BE PROTECTED, REFER TO SPECIFICATIONS |

## ITEMS TO BE PROTECTED

- A. CHAIN LINK FENCE / GATE TO REMAIN AND BE PROTECTED. INCLUDES POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS.
- B. BLEACHERS TO BE REMAIN AND BE PROTECTED, INCLUDING HARDSCAPE.
- C. STORAGE CONTAINERS TO BE RELOCATED. (2) TO BE RELOCATED ONSITE PER L8.1 AND (1) SHALL BE RELOCATED TO STAGG HS. COORDINATE WITH DISTRICT.
- D. APPROXIMATE LOCATION OF IRRIGATION REMOTE CONTROL VALVES, WIRES TO BE SALVAGED AND REUSED FOR NEW VALVES. CONTRACTOR TO DEMOLISH BOXES & VALVES. CONTRACTOR TO VERIFY IRRIGATION CONTROLLER OPERATING THE VALVES PRIOR TO DEMOLITION. REFER TO IRRIGATION PLAN FOR PROPOSED LOCATION.
- E. ELECTRICAL, COMMUNICATION, DATA LINES AND COMPONENTS. REFER TO ELECTRICAL PLANS FOR INFORMATION. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.
- F. DRAINAGE LINES TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.REFER TO DRAINAGE PLANS.
- G. WATER LINE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.
- H. FURNISHINGS TO REMAIN AND BE PROTECTED.
- I. SANITARY SEWER AND PIPES TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.
- J. FIRE HYDRANT AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- K. PEDESTRIAN LIGHT AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- L. SCOREBOARD AND FOOTINGS TO REMAIN AND BE PROTECTED.
- M. IRRIGATION EQUIPMENT, INCLUDING BUT NOT LIMITED TO VALVES, ROTORS, SPRAY HEADS, LATERAL LINES AND MAINLINES TO REMAIN AND BE PROTECTED. REFER TO SHEETS L9.1-L9.3 FOR ADDITIONAL INFORMATION.
- N. BACKSTOP TO REMAIN AND BE PROTECTED, INCLUDING FENCING AND CONCRETE EDGEBAND. BASEBOARDS TO BE REMOVED.
- O. SPORTFIELD LIGHT, LINES AND BOXES TO REMAIN AND BE PROTECTED.
- P. FLAG POLE TO REMAIN AND BE PROTECTED.
- Q. EDGEBAND, CURB AND/OR GUTTER TO REMAIN AND BE PROTECTED.
- R. SOFTSCAPE TO REMAIN AND BE PROTECTED. IRRIGATION WITHIN THIS AREA TO REMAIN OPERABLE DURING CONSTRUCTION. ADJUST AS REQUIRED TO ENSURE FULL COVERAGE AFTER CONSTRUCTION.
- S. BENCHMARK TO REMAIN AND BE PROTECTED.
- T. FLOAT VALVE ASSEMBLY AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- U. BALLFIELD FINES, INFIELD, AND ALL ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- V. HARDSCAPE/ WALK TO REMAIN AND BE PROTECTED.
- W. DRAINAGE STRUCTURE REMAIN AND BE PROTECTED. CONTRACTOR TO ADJUST LID AND PROTECT PIPES AS REQUIRED. REFER TO DRAINAGE PLANS.
- X. ELECTRICAL VAULT BOX TO REMAIN AND BE PROTECTED, CONTRACTOR TO POTHOLE TO VERIFY DEPTH PRIOR TO CHEMICAL TREATMENT.

NORTH

0' 10' 20' 40' 60'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

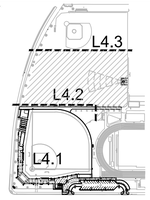
VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BADKERT
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

DEMOLITION PLAN - MULTI-USE SOUTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
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| DRAWN BY | CHECKED BY |
|---|---|
| HM | CS |
| DATE ISSUED: 03/27/20 | SCALE: 1" = 20'-0" |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: L4.2 | 8 OF 122 |

## ITEMS TO BE PROTECTED

- R — SOFTSCAPE TO REMAIN AND BE PROTECTED. IRRIGATION WITHIN THIS AREA TO REMAIN OPERABLE DURING CONSTRUCTION. ADJUST AS REQUIRED TO ENSURE FULL COVERAGE AFTER CONSTRUCTION.
- S — BENCHMARK TO REMAIN AND BE PROTECTED.
- T — FLOAT VALVE ASSEMBLY AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- U — BALLFIELD FINES, INFIELD, AND ALL ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- V — HARDSCAPE/ WALK TO REMAIN AND BE PROTECTED.
- W — DRAINAGE STRUCTURE REMAIN AND BE PROTECTED. CONTRACTOR TO ADJUST LID AND PROTECT PIPES AS REQUIRED. REFER TO DRAINAGE PLANS.
- X — ELECTRICAL VAULT BOX TO REMAIN AND BE PROTECTED, CONTRACTOR TO POTHOLE TO VERIFY DEPTH PRIOR TO CHEMICAL TREATMENT.

## ITEMS TO BE DEMOLISHED

1. DRAIN STRUCTURE TO BE DEMOLISHED AND REMOVED.
2. EDGEBAND, CURB AND/OR FENCING TO BE DEMOLISHED AND REMOVED. FENCE FOOTINGS TO BE DEMOLISHED AND REMOVED.
3. IRRIGATION VALVES AND ASSOCIATED LATERAL LINES TO BE DEMOLISHED AND REMOVED. CONTROL WIRES SHALL BE PROTECTED WITHIN A NEW VALVE BOX LOCATED IN LANDSCAPE AREA.
4. PITCHER'S PLATE TO BE REMOVED AND TURNED OVER TO DISTRICT.
5. HOMEPLATE TO BE REMOVED AND TURNED OVER TO DISTRICT.
6. SAWCUT EXISTING CURB/EDGEBAND AND/OR GUTTER AT NEAREST JOINT TO ALLOW FOR NEW CURB
7. BENCH TO BE DEMOLISHED AND REMOVED AND TURNED OVER TO DISTRICT.
8. DRAIN LINES TO BE CAPPED, SLURRY FILLED AND ABANDONED IF NOT OBSTRUCTING FUTURE IMPROVEMENTS.
9. UTILITY TO BE DEMOLISHED AND REMOVED.
10. TICKET BOOTH TO BE DEMOLISHED AND REMOVED.
11. BENCHMARK TO BE DEMOLISHED AND REMOVED.
12. CONTRACTOR TO REMOVE TRENCH DRAIN AND CAP STORM DRAIN LINE AT NEAREST BASIN. WHERE TRENCH DRAIN IS ADJACENT TO REMAINING BACKSTOP CONTRACTOR SHALL SAWCUT AND REMOVE TRENCH DRAIN. CONCRETE EDGEBAND UNDER BACKSTOP TO REMAIN AND BE PROTECTED. DEMOLISH AND REMOVED ALL BASEBOARDS.
13. DRINKING FOUNTAIN TO BE DEMOLISHED AND REMOVED.
14. BATTING CAGE POLES AND NETTING TO BE DEMOLISHED AND REMOVED.
15. 2' TALL PLASTIC STORAGE BIN TO BE DEMOLISHED AND REMOVED.
16. CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
17. QUICK COUPLERS TO BE DEMOLISHED AND REMOVED. LINE TO REMAIN ACTIVE AND TIE INTO NEW LOCATIONS PER IRRIGATION PLAN.
18. ELECTRICAL TO BE ADJUSTED AND/OR DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
19. FOUL POLES AND FOOTINGS TO BE DEMOLISHED AND REMOVED.

# DEMOLITION NOTES

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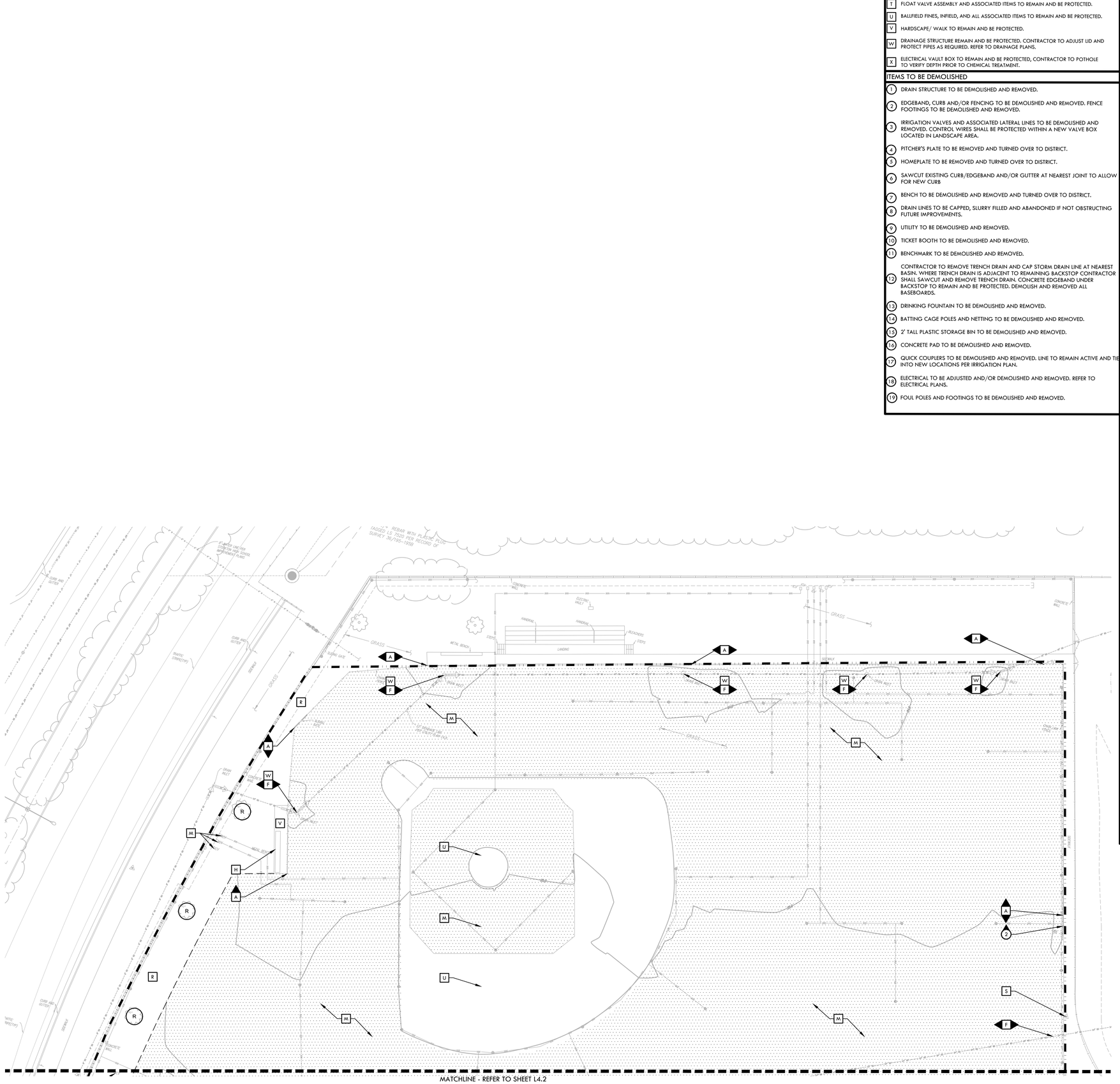
8. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

# DEMOLITION LEGEND

| SYM | DESCRIPTION |
|---|---|
| | LIMIT OF WORK |
| # | KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED |
| # | KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED |
| | SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. REMOVE EXCESS SOIL FROM SITE AND DISPOSED IN LEGAL MANNER. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION. |
| | DEMOLISH AND REMOVE HARDSCAPE PAVING INCLUDING BASE MATERIAL. |
| | INFIELD FINES TO BE STOCKPILED AND USED FOR TOPDRESS AT NORTHERN BALLFIELD (SEE L8.1). REMAINING FINES TO BE DEMOLISHED AND REMOVED. |
| | DEMOLISH AND REMOVE CURB, UTILITY LINE, AND/OR FENCE, INCLUDING POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS |
| | SAWCUT |
| | LIMIT OF CLEAR AND GRUB. CONTRACTOR SHALL CONFIRM WITH GRADING, UTILITIES AND SPECIFICATIONS. |
| | TREE SHALL BE DEMOLISHED AND REMOVED, REFER TO SPECIFICATIONS |
| R | TREE TO REMAIN AND BE PROTECTED, REFER TO SPECIFICATIONS |

## ITEMS TO BE PROTECTED

- A — CHAIN LINK FENCE / GATE TO REMAIN AND BE PROTECTED. INCLUDES POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS.
- B — BLEACHERS TO BE REMAIN AND BE PROTECTED, INCLUDING HARDSCAPE.
- C — STORAGE CONTAINERS TO BE RELOCATED. (2) TO BE RELOCATED ONSITE PER L8.1 AND (1) SHALL BE RELOCATED TO STAGG HS. COORDINATE WITH DISTRICT.
- D — APPROXIMATE LOCATION OF IRRIGATION REMOTE CONTROL VALVES, WIRES TO BE SALVAGED AND REUSED FOR NEW VALVES. CONTRACTOR TO DEMOLISH BOXES & VALVES. CONTRACTOR TO VERIFY IRRIGATION CONTROLLER OPERATING THE VALVES PRIOR TO DEMOLITION. REFER TO IRRIGATION PLAN FOR PROPOSED LOCATION.
- E — ELECTRICAL, COMMUNICATION, DATA LINES AND COMPONENTS. REFER TO ELECTRICAL PLANS FOR INFORMATION. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.
- F — DRAINAGE LINES TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.REFER TO DRAINAGE PLANS.
- G — WATER LINE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.
- H — FURNISHINGS TO REMAIN AND BE PROTECTED.
- I — SANITARY SEWER AND PIPES TO REMAIN AND BE PROTECTED. CONTRACTOR TO POTHOLE DEPTHS PRIOR TO CHEMICAL TREATMENT.
- J — FIRE HYDRANT AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- K — PEDESTRIAN LIGHT AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- L — SCOREBOARD AND FOOTINGS TO REMAIN AND BE PROTECTED.
- M — IRRIGATION EQUIPMENT, INCLUDING BUT NOT LIMITED TO VALVES, ROTORS, SPRAY HEADS, LATERAL LINES AND MAINLINES TO REMAIN AND BE PROTECTED. REFER TO SHEETS L9.1-L9.3 FOR ADDITIONAL INFORMATION.
- N — BACKSTOP TO REMAIN AND BE PROTECTED, INCLUDING FENCING AND CONCRETE EDGEBAND. BASEBOARDS TO BE REMOVED.
- O — SPORTFIELD LIGHT, LINES AND BOXES TO REMAIN AND BE PROTECTED.
- P — FLAG POLE TO REMAIN AND BE PROTECTED.
- Q — EDGEBAND, CURB AND/OR GUTTER TO REMAIN AND BE PROTECTED.




NORTH

0' 10' 20' 40' 60'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

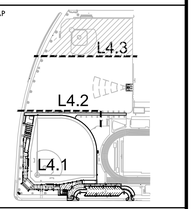
VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

DEMOLITION PLAN - MULTI-USE NORTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
| | |

| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

| DRAWN BY | CHECKED BY |
|---|---|
| HM | CS |
| DATE ISSUED: 03/27/20 | SCALE: 1" = 20'-0" |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: L4.3 | 9 OF 122 |



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_DEM- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

## CUT & FILL VOLUME CALC'S*

***FOR REFERENCE ONLY**

| CUT VOLUME | FILL VOLUME | NET VOLUME |
|---|---|---|
| 3,610 YD$^3$ | 912 YD$^3$ | 2,698 YD$^3$ (CUT) |

## GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: ANDREGG GEOMATICS. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY OWNER REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

## GRADING LEGEND

| SYM | DESCRIPTION |
|---|---|
| | LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE |
| R | CROWN OF FIELD, OR RIDGE LINE |
| L | SUBGRADE LOW POINT |
| GB GB | GRADE BREAK |
| 27 | PROPOSED FINISH SURFACE/GRADE CONTOUR |
| SG 27 | PROPOSED SUBGRADE CONTOUR |
| FG 27.00 | PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE |
| FS 27.00 | PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE |
| SG 27.00 | PROPOSED SUBGRADE ELEVATION |
| TC 27.00 | PROPOSED TOP OF CURB ELEVATION |
| LP/RIM 27.00 | PROPOSED LOW POINT/ RIM ELEVATION OF DRAIN |
| | CONFORM TO EXISTING GRADE |
| 27 | EXISTING CONTOUR |
| x 27 | EXISTING ELEVATION |
| 1.00% | SLOPE AND DIRECTION |
| (e) | EXISITNG |
| TOR | TOP OF ROCK |
| | BOTTOM OF BIORETENTION BASIN, REFER TO DRAINAGE PLANS. |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www.VerdeDesigninc.com


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAUKNIGHT
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

GRADING PLAN - BASEBALL FIELD

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

| NO. | REVISIONS | DATE |
|---|---|---|
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| DRAWN BY | CHECKED BY |
|---|---|
| QH | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |

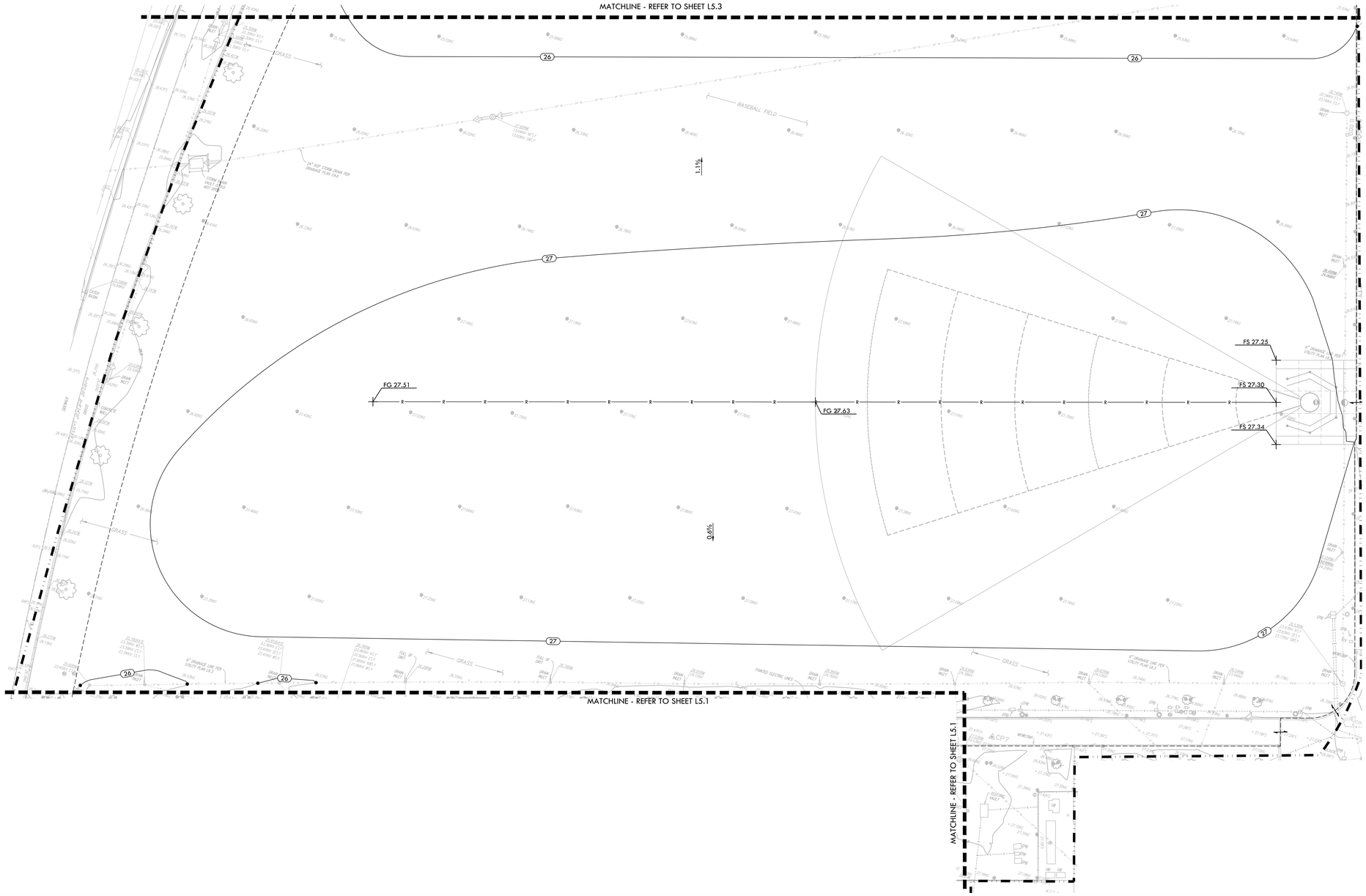
PROJ. NO. 1910900-1211

SHEET NO. L5.1 OF 122

GRADING PLAN - BASEBALL FIELD



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_GRD- Athletics-C3D.dwg
PLOT DATE: 04-02-20 PLOTTED BY: station3




## CUT & FILL VOLUME CALC'S*

*FOR REFERENCE ONLY

| CUT VOLUME | FILL VOLUME | NET VOLUME |
|---|---|---|
| 3,610 YD$^3$ | 912 YD$^3$ | 2,698 YD$^3$ (CUT) |

## GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: ANDREGG GEOMATICS. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY OWNER REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

## GRADING LEGEND

| SYM | DESCRIPTION |
|---|---|
| | LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE |
| R | CROWN OF FIELD, OR RIDGE LINE |
| L | SUBGRADE LOW POINT |
| GB GB | GRADE BREAK |
| 27 | PROPOSED FINISH SURFACE/GRADE CONTOUR |
| SG 27 | PROPOSED SUBGRADE CONTOUR |
| FG 27.00 | PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE |
| FS 27.00 | PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE |
| SG 27.00 | PROPOSED SUBGRADE ELEVATION |
| TC 27.00 | PROPOSED TOP OF CURB ELEVATION |
| LP/RIM 27.00 | PROPOSED LOW POINT/ RIM ELEVATION OF DRAIN |
| | CONFORM TO EXISTING GRADE |
| 27 | EXISTING CONTOUR |
| x 27 | EXISTING ELEVATION |
| 1.00% | SLOPE AND DIRECTION |
| (e) | EXISITNG |
| TOR | TOP OF ROCK |
| | BOTTOM OF BIORETENTION BASIN, REFER TO DRAINAGE PLANS. |

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VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesigninc.com

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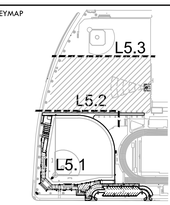
REGISTERED LANDSCAPE ARCHITECT
MARK S. BAUKNIGHT
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

GRADING PLAN - MULTI-USE SOUTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
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| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| | |

| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
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| DRAWN BY | CHECKED BY |
|---|---|
| QH | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |

PROJ. NO.
1910900-1211

SHEET NO.
L5.2 OF 122

NORTH
0' 10' 20' 40' 60'



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_GRD- Athletics-C3D.dwg
PLOT DATE: 04-02-20 PLOTTED BY: station3

## CUT & FILL VOLUME CALC'S*

***FOR REFERENCE ONLY**

| CUT VOLUME | FILL VOLUME | NET VOLUME |
|---|---|---|
| 3,610 YD$^3$ | 912 YD$^3$ | 2,698 YD$^3$ (CUT) |

## GRADING NOTES

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4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

## GRADING LEGEND

| SYM | DESCRIPTION |
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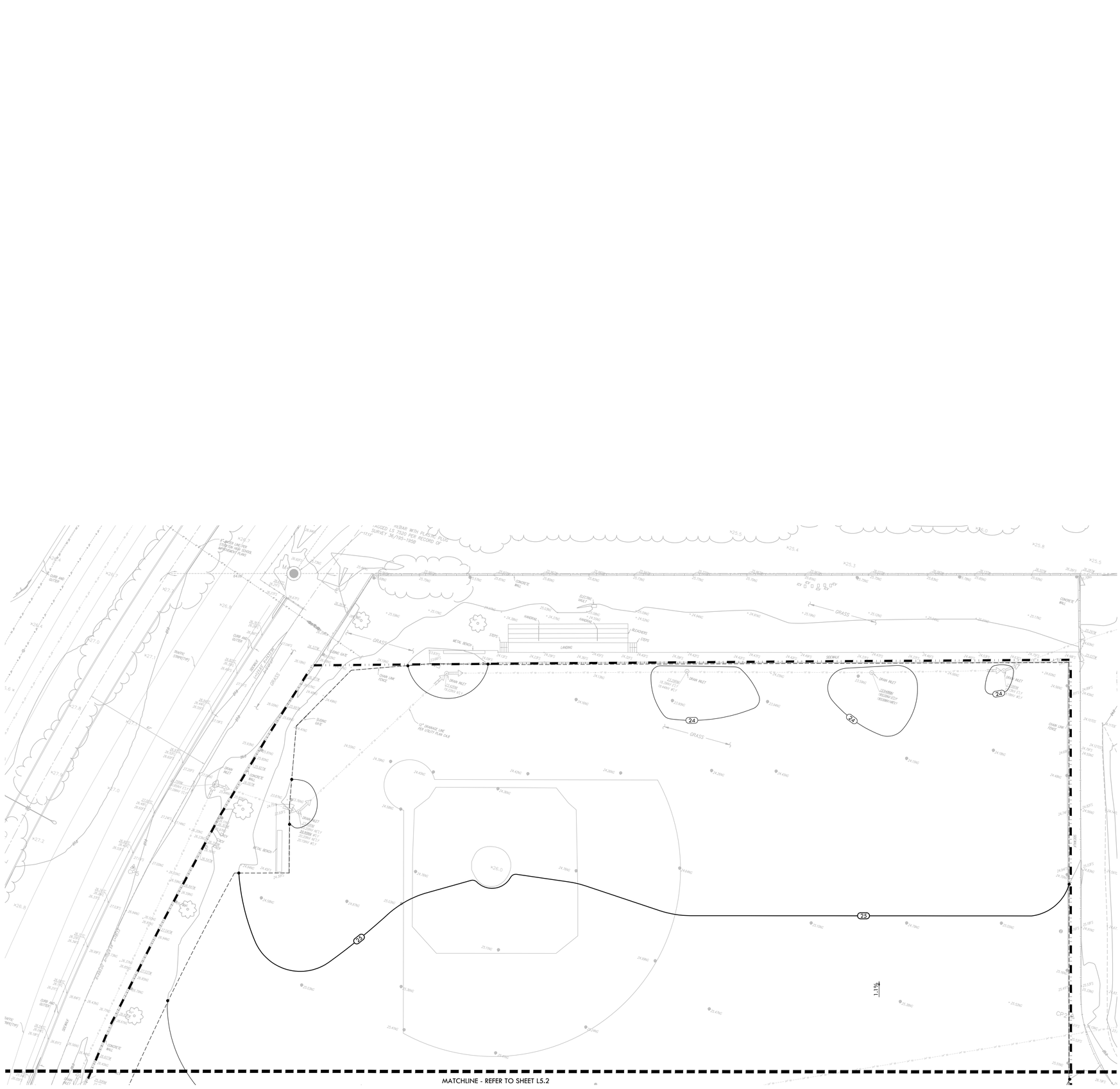
| | LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE |
| R | CROWN OF FIELD, OR RIDGE LINE |
| L | SUBGRADE LOW POINT |
| GB GB | GRADE BREAK |
| 27 | PROPOSED FINISH SURFACE/GRADE CONTOUR |
| SG 27 | PROPOSED SUBGRADE CONTOUR |
| FG 27.00 | PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE |
| FS 27.00 | PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE |
| SG 27.00 | PROPOSED SUBGRADE ELEVATION |
| TC 27.00 | PROPOSED TOP OF CURB ELEVATION |
| LP/RIM 27.00 | PROPOSED LOW POINT/ RIM ELEVATION OF DRAIN |
| | CONFORM TO EXISTING GRADE |
| 27 | EXISTING CONTOUR |
| x 27 | EXISTING ELEVATION |
| 1.00% | SLOPE AND DIRECTION |
| (e) | EXISITNG |
| TOR | TOP OF ROCK |
| | BOTTOM OF BIORETENTION BASIN, REFER TO DRAINAGE PLANS. |




NORTH

0' 10' 20' 40' 60'

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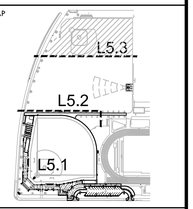
STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

GRADING PLAN - MULTI-USE NORTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| 4 | | |
| 5 | | |
| 6 | | |

| DRAWN BY | CHECKED BY |
|---|---|
| QH | CS |
| DATE ISSUED: 03/27/20 | SCALE: 1" = 20'-0" |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: L5.3 | OF 122 |

GRADING PLAN - MULTI-USE NORTH

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_GRD- Athletics-C3D.dwg
PLOT DATE: 04-02-20 PLOTTED BY: station3

## CUT & FILL VOLUME CALC'S*

***FOR REFERENCE ONLY**

| CUT VOLUME | FILL VOLUME | NET VOLUME |
|---|---|---|
| 3,610 YD³ | 912 YD³ | 2,698 YD³ (CUT) |

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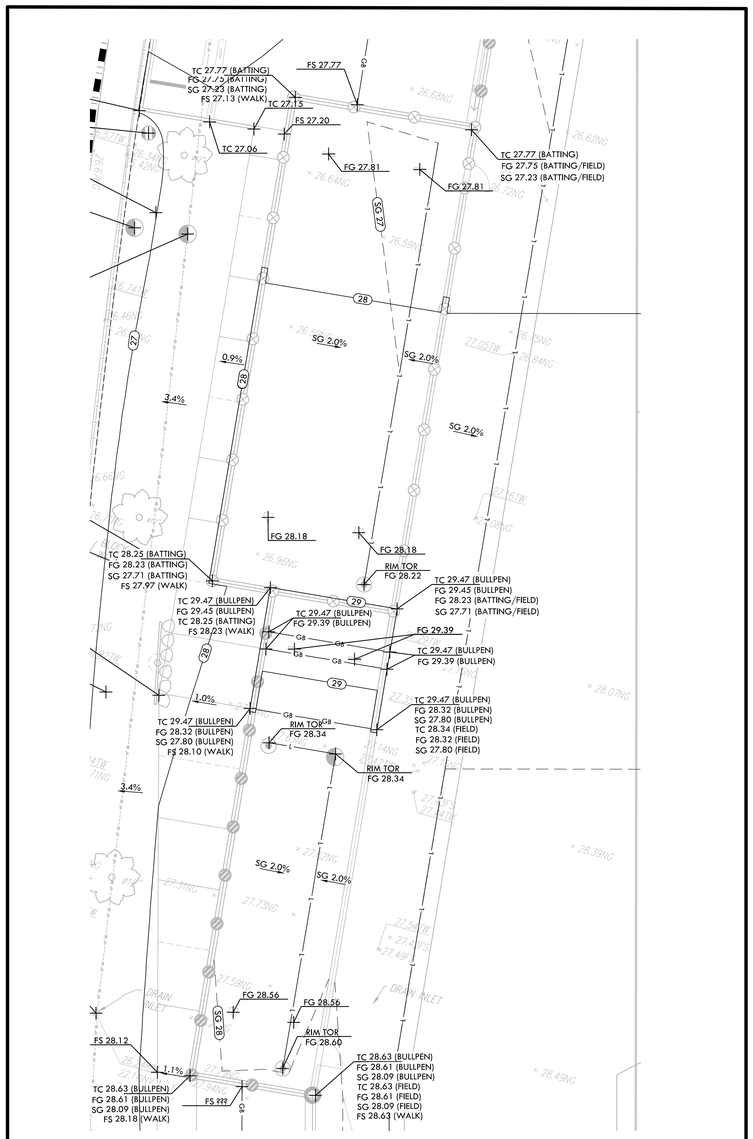
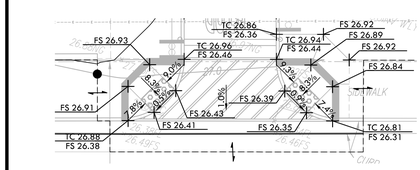
| 27 | EXISTING CONTOUR |
| x 27 | EXISTING ELEVATION |
| 1.00% | SLOPE AND DIRECTION |
| (e) | EXISITNG |
| TOR | TOP OF ROCK |
| | BOTTOM OF BIORETENTION BASIN, REFER TO DRAINAGE PLANS. |

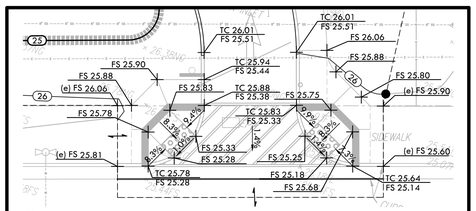



ENLARGEMENT C — SCALE: 1"=10'-0"



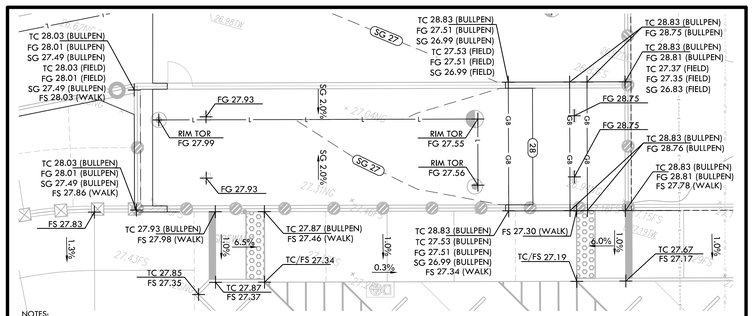

NOTES:
1. REFER TO DETAIL I, SHEET D3.0, FOR MORE INFORMATION OF RAMP AT CROSSWALK.
2. REFER TO DETAIL C, SHEET D3.0, FOR MORE INFORMATION OF TRUNCATED DOMES.

ENLARGEMENT E — SCALE: 1"=10'-0"



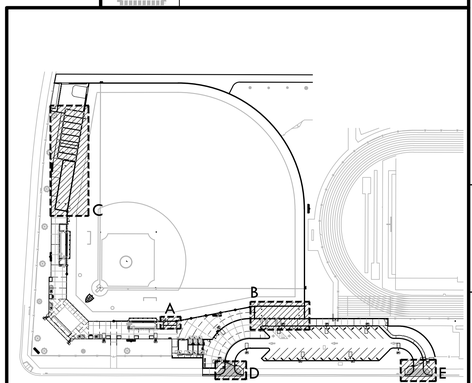

NOTES:
1. REFER TO DETAIL I, SHEET D3.0, FOR MORE INFORMATION OF RAMP AT CROSSWALK.
2. REFER TO DETAIL C, SHEET D3.0, FOR MORE INFORMATION OF TRUNCATED DOMES.

ENLARGEMENT D — SCALE: 1"=10'-0"

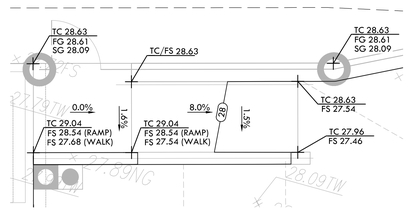



NOTES:
1. REFER TO DETAIL A, SHEET D3.0, FOR MORE INFORMATION OF RAMP.
2. REFER TO DETAIL C, SHEET D3.0, FOR MORE INFORMATION OF TRUNCATED DOMES.

ENLARGEMENT B — SCALE: 1"=10'-0"




ENLARGEMENT KEY MAP — NOT TO SCALE




NOTES:
1. REFER TO DETAILS J AND K, SHEET D3.0, FOR MORE INFORMATION OF RAMP.
2. REFER TO DETAILS L, M AND N, SHEET D3.0, FOR MORE INFORMATION OF HANDRAILS.

ENLARGEMENT A — SCALE: 1"=5'-0"

VERDE DESIGN
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MARK S. BARKEN
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CONSULTANT

KEYMAP

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PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

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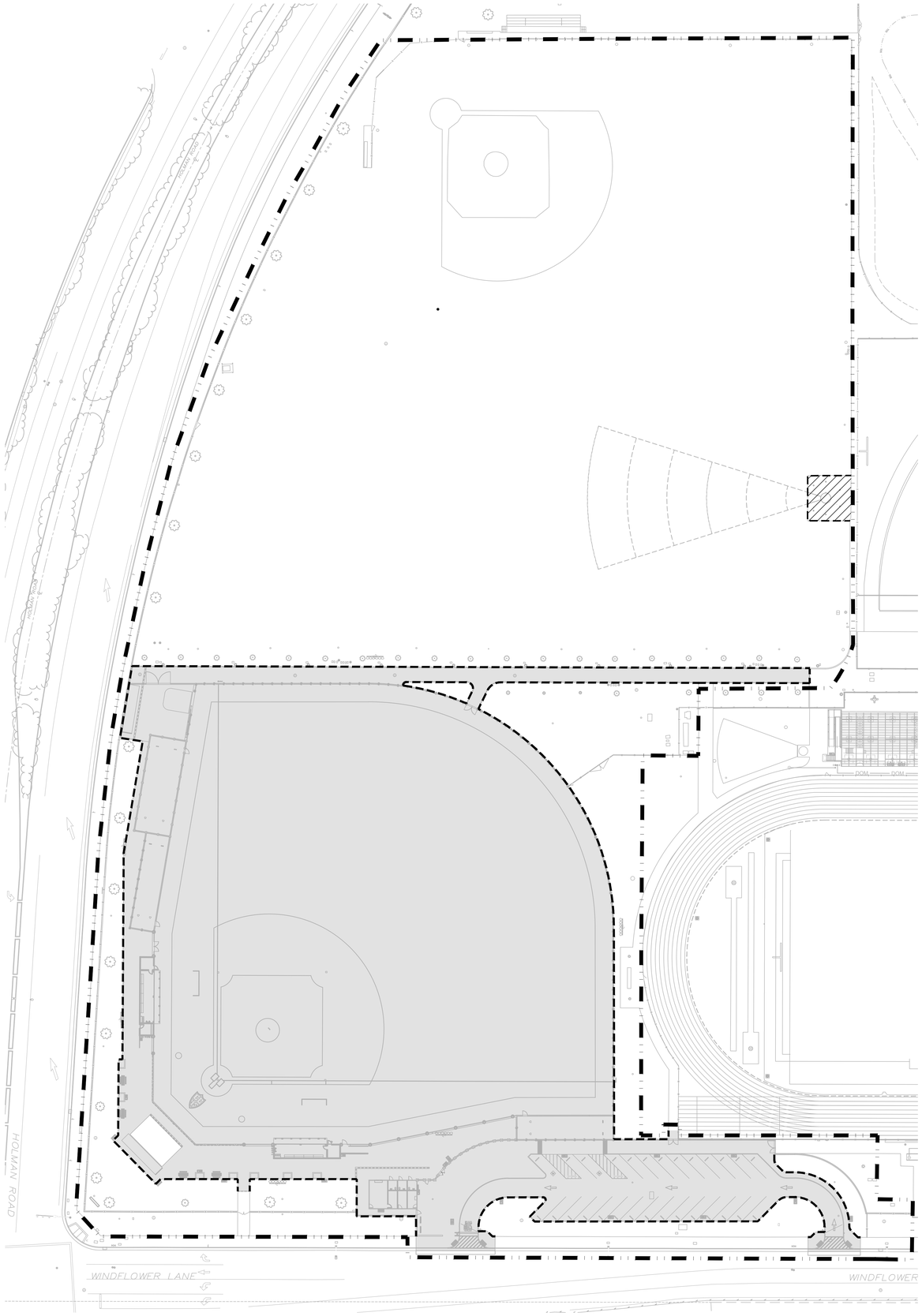
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |

PROJ. NO. 1910900-1211

SHEET NO. L5.4 OF 122




## CHEMICAL TREATMENT LEGEND

| SYM | DESCRIPTION |
|---|---|
| | PROJECT LIMIT OF WORK |
| | LOCATIONS OF DEEP EDGES AT PERIMETER OF CHEMICAL TREATMENT AREAS (REFER TO MATERIALS PLAN AND DETAILS FOR MORE INFORMATION) |
| | AREA OF CHEMICAL TREATMENT, REFER TO SPECIFICATIONS<br>REFER TO GEOTECHNICAL REPORT FOR DETAIL |
| | AREA OF IMPORTED FILL, REFER TO SPECIFICATIONS |

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CHEMICAL TREATMENT PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
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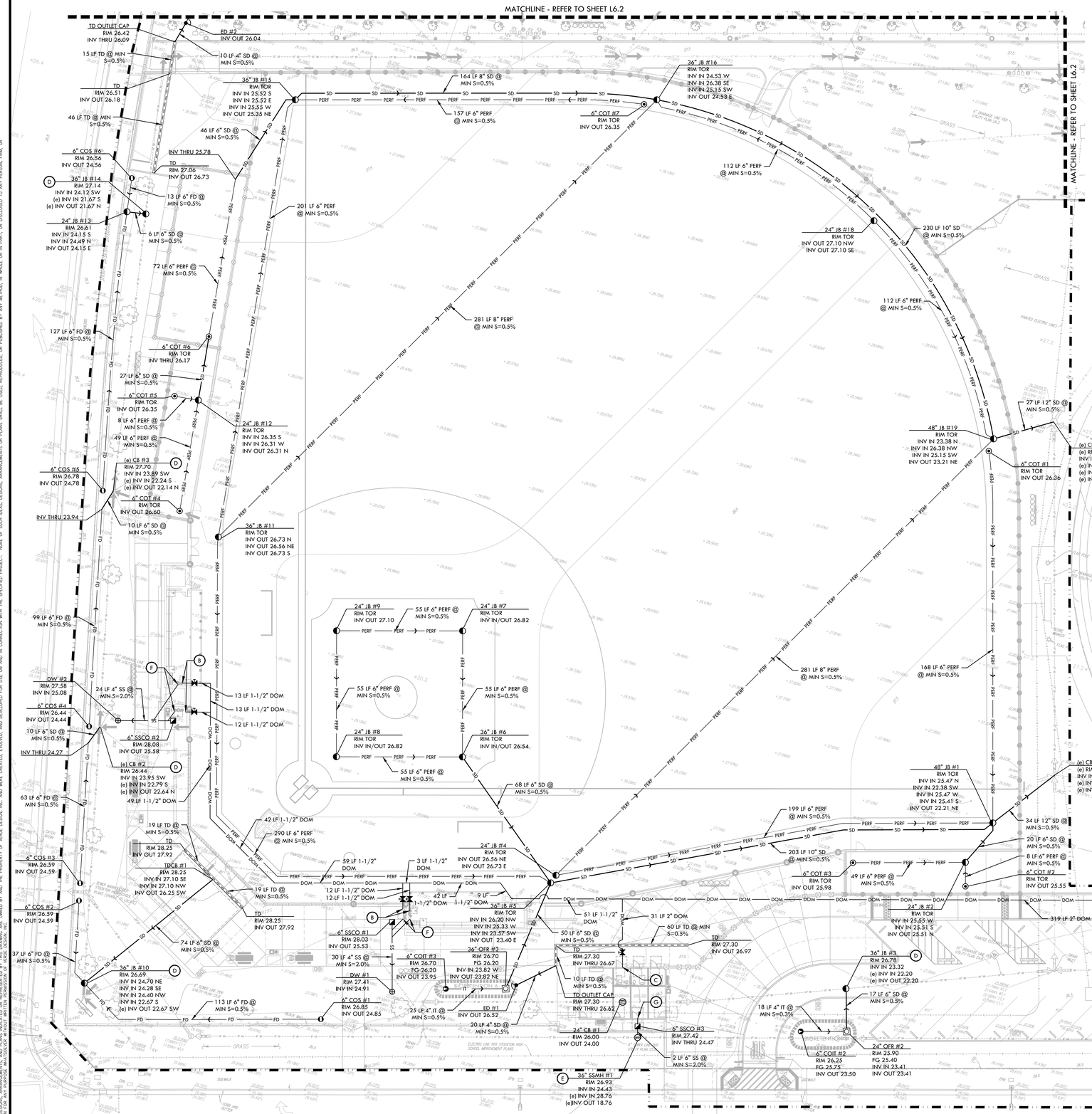
| DRAWN BY | CHECKED BY |
|---|---|
| HM | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 40'-0" |
| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| L5.5 OF 122 | |

CHEMICAL TREATMENT PLAN



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_GRD- chem treatement - Athletics.dwg
PLOT DATE: 03-31-20 PLOTTED BY: station40




## DRAINAGE & UTILITY LEGEND

| SYM | DESCRIPTION |
|---|---|
| TOR | TOP OF ROCK ELEVATION |
| LF | LINEAR FEET |
| COS | CLEANOUT IN SOFTSCAPE |
| COT | CLEANOUT AT SYNTHETIC TURF |
| COIT | CLEANOUT AT INFILTRATION TRENCH |
| SSCO | SANITARY SEWER CLEANOUT |
| S=0.5% | SLOPE |
| MIN | MINIMUM |
| TDCB | TRENCH DRAIN CATCH BASIN |
| A | DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING. |
| B | DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN |
| C | DOMESTIC WATER CONNECTION TO BUILDING |
| D | STORM DRAIN POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING. |
| E | SANITARY SEWER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING. |
| F | SANITARY SEWER CONNECTION TO DRINKING FOUNTAIN |
| G | SANITARY SEWER CONNECTION TO BUILDING |

## DRAINAGE & UTILITY NOTES

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2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT. VERIFY CONDITION OF EXISTING STRUCTURES WITH DISTRICT REPRESENTATIVE PRIOR TO FINAL FINISH GRADING.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
9. ALL DRAIN LINES LEAVING COMBOXES, WATER CANNONS AND QUICK COUPLERS SHALL BE DAYLIGHTING TO NEAREST SUBDRAIN TRENCH.

## DRAINAGE & UTILITY LEGEND

| SYM | DESCRIPTION | DETAIL NUMBER / SHEET NUMBER |
|---|---|---|
| | LIMIT OF WORK | |
| | JUNCTION BOX, SIZE PER PLAN (JB) | A/B D1.0 |
| | CATCH BASIN, SIZE PER PLAN (CB) | A D1.0 |
| | CLEANOUT IN SYNTHETIC TURF (COT) | J D1.0 |
| | SANITARY SEWER CLEANOUT (SSCO) | L D1.0 |
| | CLEANOUT IN BIORETENTION AREA (COIT) | B D1.1 |
| | CLEANOUT IN SOFTSCAPE (COS) | M D1.0 |
| | OVERFLOW RISER (OFR) WITH GRATE/STANDPIPE AT BIORETENTION AREA | C D1.1 |
| | COBBLE ENERGY DISSIPATOR (ED) | A D1.1 |
| | DRYWELL (DW) | E D1.1 |
| SSMH | SANITARY SEWER MANHOLE (SSMH) | F D1.1 |
| | DISCUS DRAINAGE (DI) | N D1.0 |
| PERF | PERFORATED SUBDRAIN, SIZE PER PLAN | F D1.0 |
| SD | SOLID WALL STORM DRAIN | C/D D1.0 |
| IT | INFILTRATION TRENCH (BIORETENTION AREA) | B D1.1 |
| SS | SANITARY SEWER LINE | C/D D1.0 |
| | TRENCH DRAIN | G D1.0 |
| FD | FRENCH DRAIN | E D1.0 |
| DOM | DOMESTIC WATER LINE | C/D D1.0 |
| | BIORETENTION AREA (BOTTOM OF BIORETENTION BASIN) | B D1.1 |
| | DOMESTIC WATER GATE VALVE | B D6.0 |
| (e) | EXISTING | |
| CB | CATCH BASIN | |
| DF | DRINKING FOUNTAIN | |
| INV | INVERT | |
| RIM | RIM ELEVATION | |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020


VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
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tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com


STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKEN
No. 4398
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

DRAINAGE AND UTILITY PLAN - BASEBALL FIELD

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
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| NO. | REVISIONS | DATE |
|---|---|---|
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| DRAWN BY | CHECKED BY |
|---|---|
| QH | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |
| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| L6.1 | OF 122 |



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_DRN- Athletics-C30.dwg
PLOT DATE: 04-02-20 PLOTTED BY: station3

## DRAINAGE & UTILITY LEGEND

| SYM | DESCRIPTION |
|---|---|
| TOR | TOP OF ROCK ELEVATION |
| LF | LINEAR FEET |
| COS | CLEANOUT IN SOFTSCAPE |
| COT | CLEANOUT AT SYNTHETIC TURF |
| COIT | CLEANOUT AT INFILTRATION TRENCH |
| SSCO | SANITARY SEWER CLEANOUT |
| S=0.5% | SLOPE |
| MIN | MINIMUM |
| TDCB | TRENCH DRAIN CATCH BASIN |
| A | DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING. |
| B | DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN |
| C | DOMESTIC WATER CONNECTION TO BUILDING |
| D | STORM DRAIN POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING. |
| E | SANITARY SEWER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING. |
| F | SANITARY SEWER CONNECTION TO DRINKING FOUNTAIN |
| G | SANITARY SEWER CONNECTION TO BUILDING |

## DRAINAGE & UTILITY NOTES

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2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT. VERIFY CONDITION OF EXISTING STRUCTURES WITH DISTRICT REPRESENTATIVE PRIOR TO FINAL FINISH GRADING.
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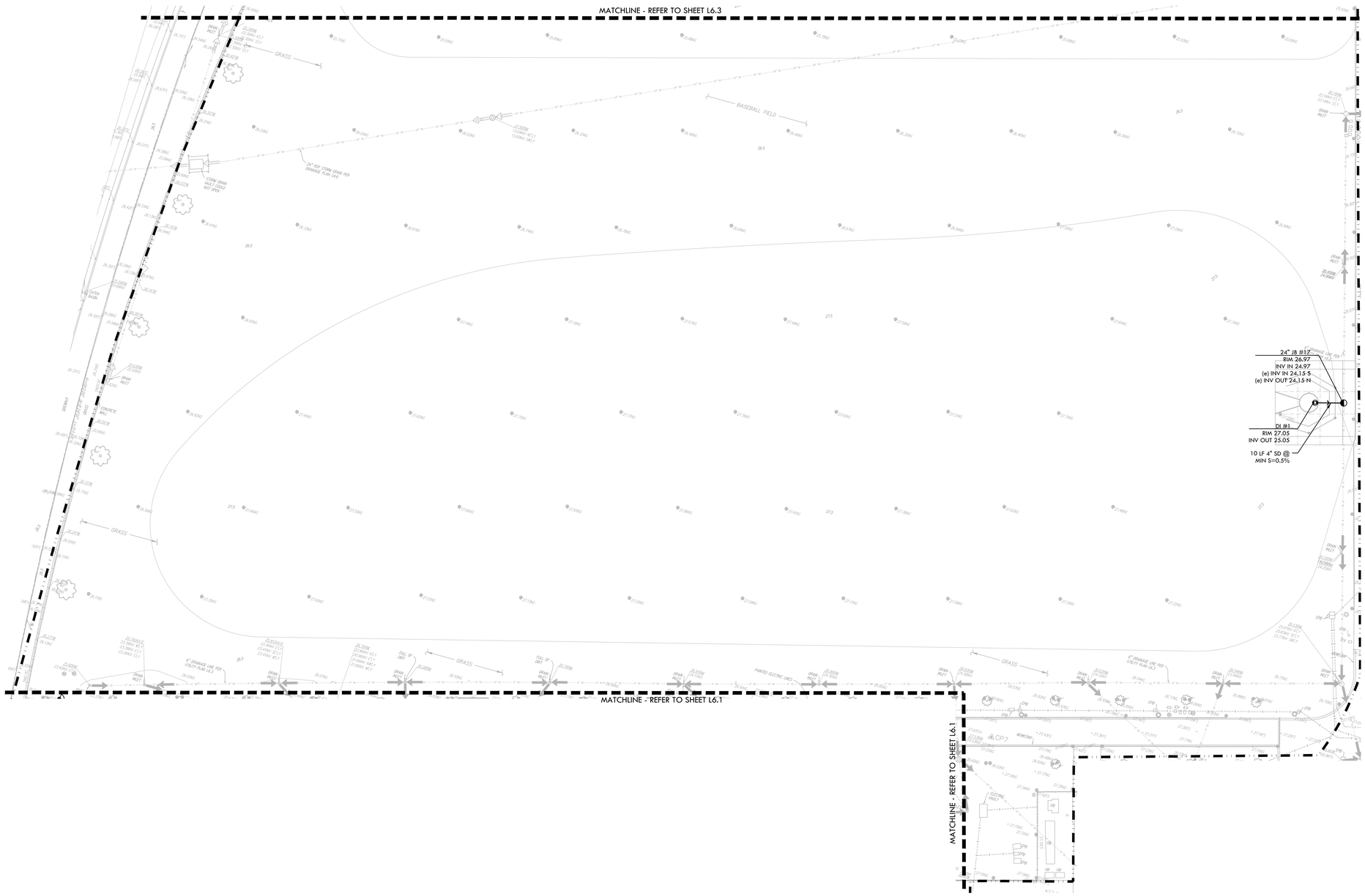


## DRAINAGE & UTILITY LEGEND

| SYM | DESCRIPTION | DETAIL NUMBER / SHEET NUMBER |
|---|---|---|
| | LIMIT OF WORK | |
| | JUNCTION BOX, SIZE PER PLAN (JB) | A/B D1.0 |
| | CATCH BASIN, SIZE PER PLAN (CB) | A D1.0 |
| | CLEANOUT IN SYNTHETIC TURF (COT) | J D1.0 |
| | SANITARY SEWER CLEANOUT (SSCO) | L D1.0 |
| | CLEANOUT IN BIORETENTION AREA (COIT) | B D1.1 |
| | CLEANOUT IN SOFTSCAPE (COS) | M D1.0 |
| | OVERFLOW RISER (OFR) WITH GRATE/STANDPIPE AT BIORETENTION AREA | C D1.1 |
| | COBBLE ENERGY DISSIPATOR (ED) | A D1.1 |
| | DRYWELL (DW) | E D1.1 |
| | SANITARY SEWER MANHOLE (SSMH) | F D1.1 |
| | DISCUS DRAINAGE (DI) | N D1.0 |
| PERF | PERFORATED SUBDRAIN, SIZE PER PLAN | P D1.0 |
| SD | SOLID WALL STORM DRAIN | C/D D1.0 |
| IT | INFILTRATION TRENCH (BIORETENTION AREA) | B D1.1 |
| SS | SANITARY SEWER LINE | C/D D1.0 |
| | TRENCH DRAIN | G D1.0 |
| FD | FRENCH DRAIN | E D1.0 |
| DOM | DOMESTIC WATER LINE | C/D D1.0 |
| | BIORETENTION AREA (BOTTOM OF BIORETENTION BASIN) | B D1.1 |
| | DOMESTIC WATER GATE VALVE | B D6.0 |
| (e) | EXISTING | |
| CB | CATCH BASIN | |
| DF | DRINKING FOUNTAIN | |
| INV | INVERT | |
| RIM | RIM ELEVATION | |

IDENTIFICATION STAMP
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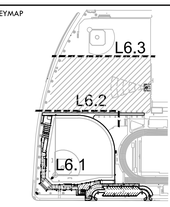
REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKOW
No. 4395
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE
DRAINAGE AND UTILITY PLAN - MULTI-USE SOUTH

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
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| NO. | REVISIONS | DATE |
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| QH | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |
| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| L6.2 | OF 122 |

## DRAINAGE & UTILITY LEGEND

| SYM | DESCRIPTION |
|---|---|
| TOR | TOP OF ROCK ELEVATION |
| LF | LINEAR FEET |
| COS | CLEANOUT IN SOFTSCAPE |
| COT | CLEANOUT AT SYNTHETIC TURF |
| COIT | CLEANOUT AT INFILTRATION TRENCH |
| SSCO | SANITARY SEWER CLEANOUT |
| S=0.5% | SLOPE |
| MIN | MINIMUM |
| TDCB | TRENCH DRAIN CATCH BASIN |
| (A) | DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING. |
| (B) | DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN |
| (C) | DOMESTIC WATER CONNECTION TO BUILDING |
| (D) | STORM DRAIN POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING. |
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## DRAINAGE & UTILITY NOTES

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## DRAINAGE & UTILITY LEGEND

| SYM | DESCRIPTION | DETAIL NUMBER / SHEET NUMBER |
|---|---|---|
| | LIMIT OF WORK | |
| | JUNCTION BOX, SIZE PER PLAN (JB) | A/B D1.0 |
| | CATCH BASIN, SIZE PER PLAN (CB) | A D1.0 |
| | CLEANOUT IN SYNTHETIC TURF (COT) | J D1.0 |
| | SANITARY SEWER CLEANOUT (SSCO) | L D1.0 |
| | CLEANOUT IN BIORETENTION AREA (COIT) | B D1.1 |
| | CLEANOUT IN SOFTSCAPE (COS) | H D1.0 |
| | OVERFLOW RISER (OFR) WITH GRATE/STANDPIPE AT BIORETENTION AREA | C D1.1 |
| | COBBLE ENERGY DISSIPATOR (ED) | A D1.1 |
| | DRYWELL (DW) | E D1.1 |
| | SANITARY SEWER MANHOLE (SSMH) | F D1.1 |
| | DISCUS DRAINAGE (DI) | N D1.0 |
| PERF | PERFORATED SUBDRAIN, SIZE PER PLAN | P D1.0 |
| SD | SOLID WALL STORM DRAIN | C/D D1.0 |
| IT | INFILTRATION TRENCH (BIORETENTION AREA) | B D1.1 |
| SS | SANITARY SEWER LINE | C/D D1.0 |
| | TRENCH DRAIN | G D1.0 |
| FD | FRENCH DRAIN | E D1.0 |
| DOM | DOMESTIC WATER LINE | C/D D1.0 |
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| | DOMESTIC WATER GATE VALVE | B D6.0 |
| (e) | EXISTING | |
| CB | CATCH BASIN | |
| DF | DRINKING FOUNTAIN | |
| INV | INVERT | |
| RIM | RIM ELEVATION | |

NO WORK THIS SHEET

MATCHLINE - REFER TO SHEET L6.2

NORTH

0' 10' 20' 40' 60'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

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CIVIL ENGINEERING
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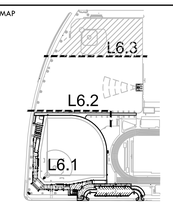
REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKEMEYER
NO. 4395
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE
DRAINAGE AND UTILITY PLAN - MULTI-USE NORTH

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

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| | |

| NO. | REVISIONS | DATE |
|---|---|---|
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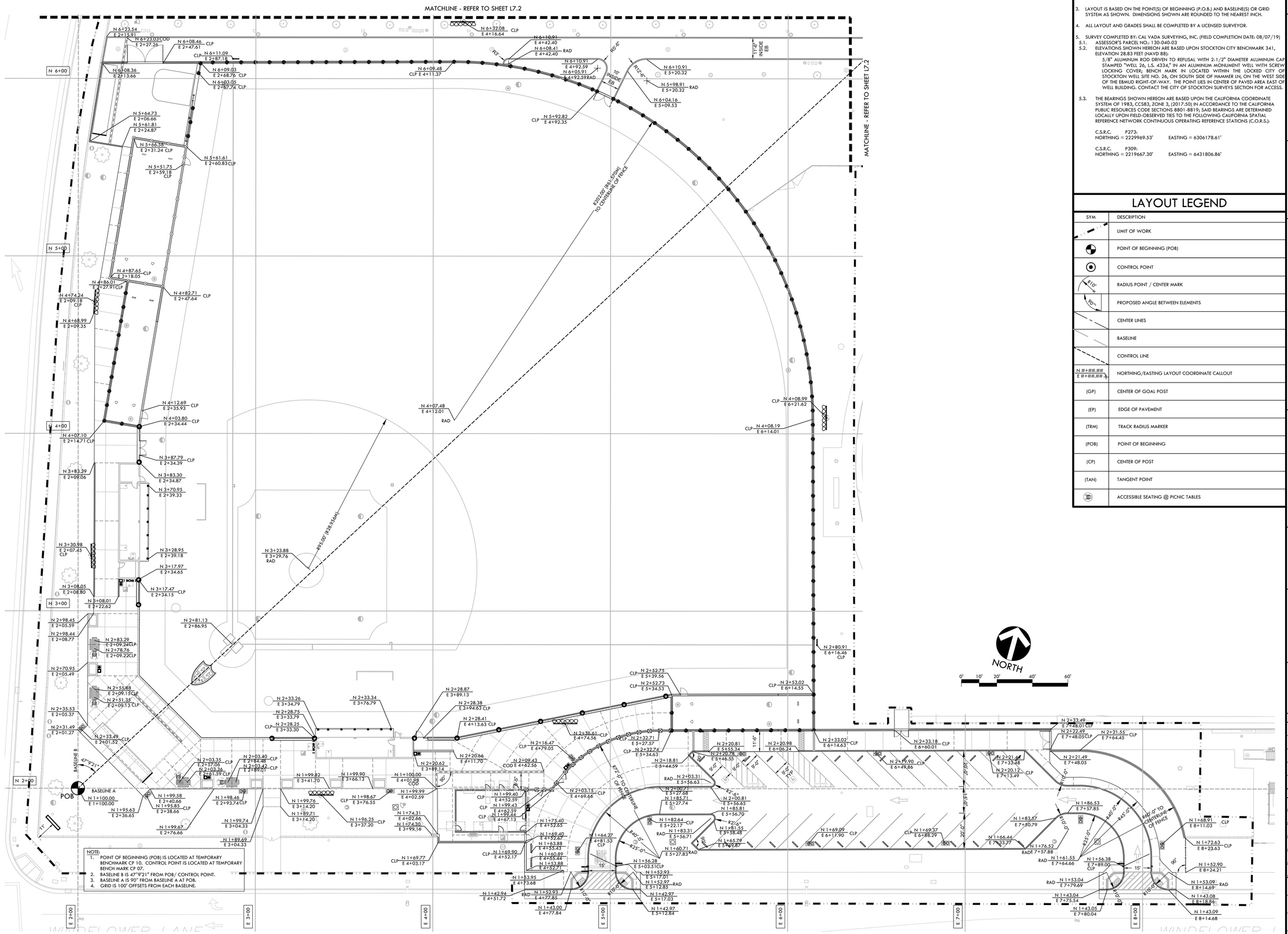
| DRAWN BY | CHECKED BY |
|---|---|
| QH | CS |
| DATE ISSUED: 03/27/20 | SCALE: 1" = 20'-0" |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: L6.3 | OF 122 |

DRAWING NAME: V:\Projects-FO\2019\1910900 - Chavez Restart\CAD_DRN- Athletics-C30.dwg
PLOT DATE: 04-02-20 PLOTTED BY: station3




NOTE:
1. POINT OF BEGINNING (POB) IS LOCATED AT TEMPORARY BENCHMARK CP 10. CONTROL POINT IS LOCATED AT TEMPORARY BENCH MARK CP 07.
2. BASELINE B IS 47°9'21" FROM POB/ CONTROL POINT.
3. BASELINE A IS 90° FROM BASELINE A AT POB.
4. GRID IS 100' OFFSETS FROM EACH BASELINE.

# LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE OWNER PRIOR TO CONSTRUCTION.
3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.
5. SURVEY COMPLETED BY: CAL VADA SURVEYING, INC. (FIELD COMPLETION DATE: 08/07/19)
   - 5.1. ASSESSOR'S PARCEL NO.: 130-040-03
   - 5.2. ELEVATIONS SHOWN HEREON ARE BASED UPON STOCKTON CITY BENCHMARK 341, ELEVATION 28.83 FEET (NAVD 88):
     5/8" ALUMINUM ROD DRIVEN TO REFUSAL WITH 2-1/2" DIAMETER ALUMINUM CAP STAMPED "WELL 26, L.S. 4334," IN AN ALUMINUM MONUMENT WELL WITH SCREW LOCKING COVER; BENCH MARK IN LOCATED WITHIN THE LOCKED CITY OF STOCKTON WELL SITE NO. 26, ON SOUTH SIDE OF HAMMER LN, ON THE WEST SIDE OF THE EBMUD RIGHT-OF-WAY. THE POINT LIES IN CENTER OF PAVED AREA EAST OF WELL BUILDING. CONTACT THE CITY OF STOCKTON SURVEYS SECTION FOR ACCESS.
   - 5.3. THE BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 3, (2017.50) IN ACCORDANCE TO THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID BEARINGS ARE DETERMINED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING CALIFORNIA SPATIAL REFERENCE NETWORK CONTINUOUS OPERATING REFERENCE STATIONS (C.O.R.S.):

     C.S.R.C. P273:
     NORTHING = 2229969.53' EASTING = 6306178.61'

     C.S.R.C. P309:
     NORTHING = 2219667.30' EASTING = 6431806.86'

# LAYOUT LEGEND

| SYM | DESCRIPTION |
|---|---|
| | LIMIT OF WORK |
| | POINT OF BEGINNING (POB) |
| | CONTROL POINT |
| R10' 20° | RADIUS POINT / CENTER MARK |
| | PROPOSED ANGLE BETWEEN ELEMENTS |
| | CENTER LINES |
| | BASELINE |
| | CONTROL LINE |
| N #+##.## E #+##.## | NORTHING/EASTING LAYOUT COORDINATE CALLOUT |
| (GP) | CENTER OF GOAL POST |
| (EP) | EDGE OF PAVEMENT |
| (TRM) | TRACK RADIUS MARKER |
| (POB) | POINT OF BEGINNING |
| (CP) | CENTER OF POST |
| (TAN) | TANGENT POINT |
| | ACCESSIBLE SEATING @ PICNIC TABLES |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKEN
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

LAYOUT PLAN - BASEBALL FIELD

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
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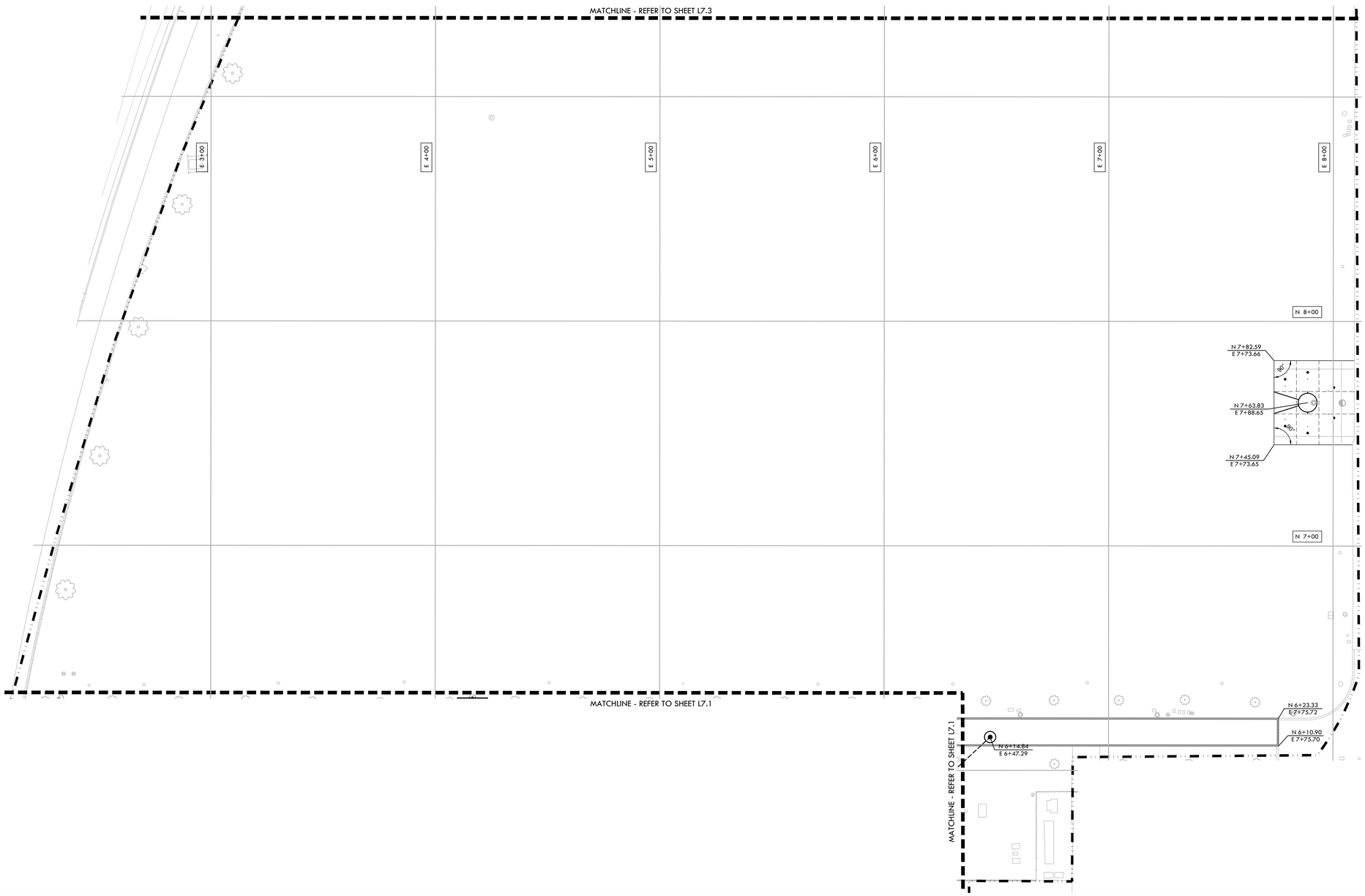
| DRAWN BY | CHECKED BY |
|---|---|
| HM | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |
| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| L7.1 | OF 122 |

LAYOUT PLAN - BASEBALL FIELD



DRAWING NAME: Y:\projects-fo\2019\1910900 - chavez restort\CAD_LAY- Athletics.dwg
PLOT DATE: 03-31-20 PLOTTED BY: station40




# LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
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3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.
5. SURVEY COMPLETED BY: CAL VADA SURVEYING, INC. (FIELD COMPLETION DATE: 08/07/19)
   - 5.1. ASSESSOR'S PARCEL NO.: 130-040-03
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     C.S.R.C. P309:
     NORTHING = 2219667.30' EASTING = 6431806.86'

# LAYOUT LEGEND

| SYM | DESCRIPTION |
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| | LIMIT OF WORK |
| | POINT OF BEGINNING (POB) |
| | CONTROL POINT |
| R10' 20' | RADIUS POINT / CENTER MARK |
| 20° | PROPOSED ANGLE BETWEEN ELEMENTS |
| | CENTER LINES |
| | BASELINE |
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No. 4099
EXPIRATION DATE: JULY 2021
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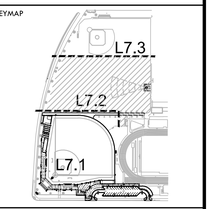
CONSULTANT

KEYMAP




SHEET TITLE

LAYOUT PLAN - MULTI-USE SOUTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| DRAWN BY | CHECKED BY |
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| HM | CS |
| DATE ISSUED: 03/27/20 | SCALE: 1" = 20'-0" |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: L7.2 | OF 122 |



DRAWING NAME: Y:\projects-fo\2019\1910900 -- chavez restart\CAD__LAY- Athletics.dwg
PLOT DATE: 03-31-20 PLOTTED BY: station40

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| | CONTROL POINT |
| R10' | RADIUS POINT / CENTER MARK |
| 20° | PROPOSED ANGLE BETWEEN ELEMENTS |
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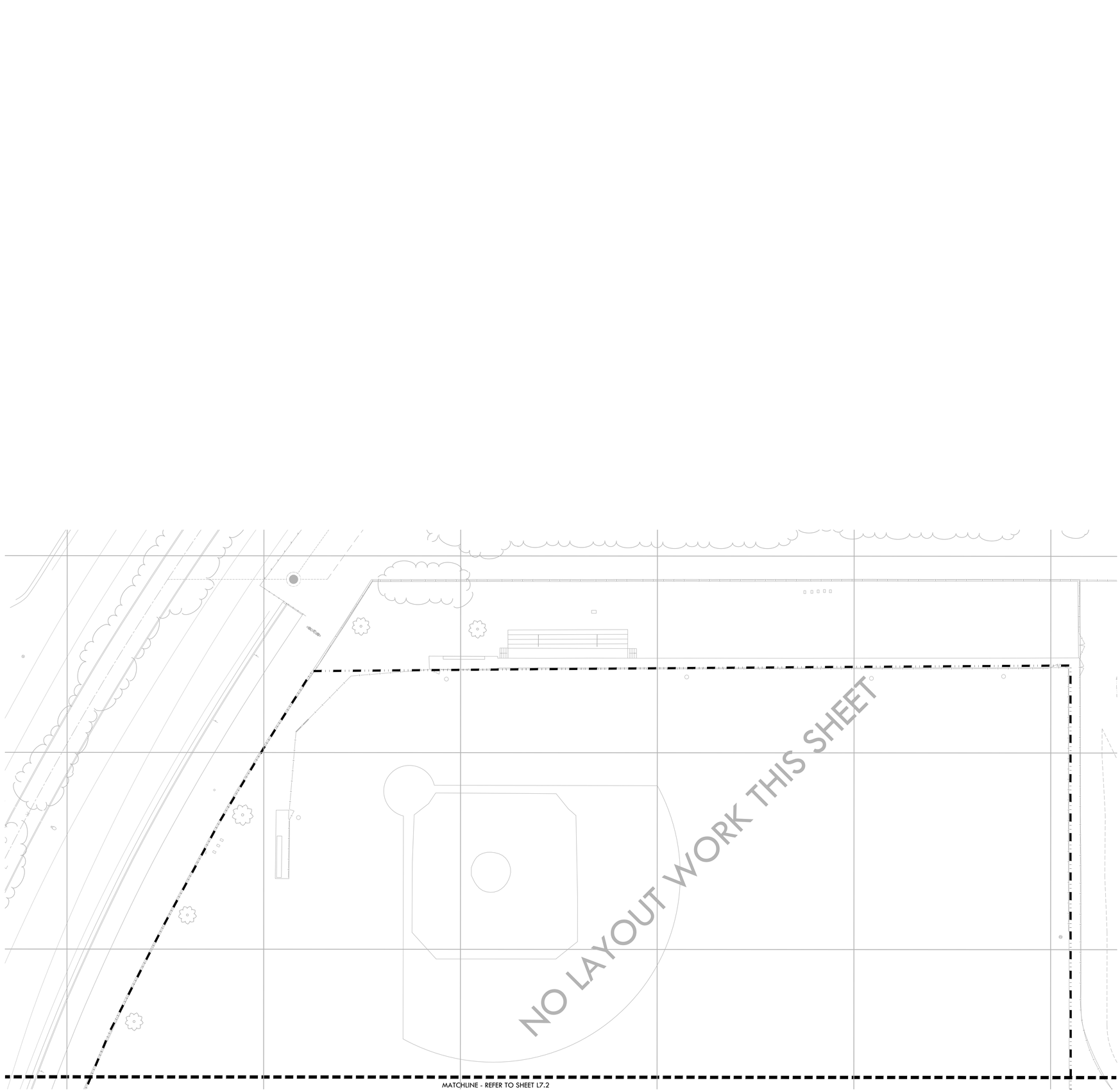


NORTH

0' 10' 20' 40' 60'

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APP. 02-118017 INC:
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MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
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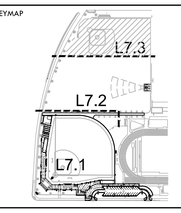
CONSULTANT

KEYMAP




SHEET TITLE

LAYOUT PLAN - MULTI-USE NORTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
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| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
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| DRAWN BY | CHECKED BY |
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| HM | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |
| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| L7.3 | OF 122 |

DRAWING NAME: Y:\projects-fo\2019\1910900 - chavez restart\CAD_LAY- Athletics.dwg
PLOT DATE: 03-31-20 PLOTTED BY: station40

## ALTERNATE

| SYM | DESCRIPTION | DTL REF |
|---|---|---|
| A1 | ALTERNATE - HOME PLATE AREA, PITCHERS MOUND AND BULLPENS SHALL BE CONSTRUCTED WITH INFIELD/WARNING TRACK FINES AND/OR CLAY IN LIEU OF SYNTHETIC TURF. REFER TO D5.2 | |

## MATERIAL LEGEND

| SYM | DESCRIPTION | DTL REF |
|---|---|---|
| 54 | 18" CURB WITH FENCE | G D2.2 |
| 55 | 20" CURB WITH FENCE | H D2.2 |
| 56 | FENCE CONNECTION AT BUILDING | H D4.0 |
| 57 | 8' TALL X 4' WIDE ORNAMENTAL GATE- ACCESSIBLE | G D4.2 |
| 58 | 8' TALL x 8' WIDE DOUBLE ORNAMENTAL GATE | I D4.2 |
| 59 | 20" EDGEBAND WITH FENCE | D D2.2 |

| SYM | DESCRIPTION | DTL REF |
|---|---|---|
| 15 | 6" EDGEBAND | H D2.1 |
| 16 | EDGEBAND WITH FENCE @ EXISTING | J D2.1 |
| 17 | 12" EDGEBAND WITH FENCE | I D2.1 |
| 18 | EDGEBAND @ SLIDE GATE | K D2.1 |
| 19 | EXISTING BACKSTOP OR FENCE AT SYNTHETIC TURF | L D2.1 |
| 20 | 6" CURB | E D2.2 |
| 21 | BASEBALL FIELD LOGO | I D2.0 |
| 22 | BIKE RACK | L D2.0 |
| 23 | PICNIC TABLE | M D2.0 |
| 24 | ACCESSIBLE PARKING STALL - 45 DEGREE | A D3.0 |
| 25 | RAMP @ CROSSWALK | I D3.0 |
| 26 | RAMP @ DUGOUT | J D3.0 |
| 27 | WHEEL STOP | E D3.0 |
| 28 | PARKING TOW AWAY SIGN | F D3.0 |
| 29 | STOP SIGN | G D3.0 |
| 30 | DO NOT ENTER SIGN | H D3.0 |
| 31 / 31B | FENCE CAP- YELLOW (REFER TO SPECIFICATIONS) FENCE CAP- BLACK (REFER TO SPECIFICATIONS) | |
| 32 | DISCUS CAGE AND PAD | A D2.2 |
| 33 | THIRD BASE DUGOUT PLANS & ELEVATIONS (REFER TO A8.0 & A8.1) | |
| 34 | FIRST BASE DUGOUT PLANS & ELEVATIONS (REFER TO A8.0 & A8.1) | |
| 35 | DRINKING FOUNTAIN PLAN | H/I D1.1 |
| 36 | BASEBALL INFIELD | A D5.0 |
| 37 | FOUL POLE | G D5.0 |
| 38 | SYNTHETIC TURF PITCHERS MOUND | H D5.0 |
| 39 | HOME PLATE, BATTER'S AND CATCHER'S BOX STRIPING | F D5.0 |
| 40 | BULLPEN - THIRD BASE | A D5.1 |
| 41 | BULLPEN - FIRST BASE | B D5.1 |
| 42 | BATTING CAGE | E D5.1 |
| 43 | BASEBALL BACKSTOP ELEVATION | A D4.1 |
| 44 | RELOCATED STORAGE CONTAINER (SHALL BE PAINTED, REFER TO SPECIFICATIONS) | |
| 45 | TREE WELL WITH GRATE | G D6.0 |
| 46 | RULES SIGN (PROVIDE 4) | G D4.3 |
| 47 | WELCOME SIGN (PROVIDE 2) | I D4.3 |
| 48 | ACCESS SIGN (PROVIDE 4) | H D4.3 |
| 49 | SHOVEL CUT EDGE | R D6.0 |
| 50 | 12" CURB WITH FENCE | F D2.2 |
| 51 | RED "NO PARKING" PAINTED CURB (REFER TO SPECIFICATIONS) | |
| 52 | MARQUEE (REFER TO ELECTRICAL & NEVCO PLANS) | K D2.0 |
| 53 | SEAT WALL | B D2.2 |

## MATERIAL NOTES

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2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

## MATERIAL LEGEND

| SYM | DESCRIPTION | DTL REF |
|---|---|---|
| | SYNTHETIC TURF (GREEN) | H D2.0 |
| | SYNTHETIC TURF WARNING TRACK (BROWN) | H D2.0 |
| | SYNTHETIC TURF INFIELD (BROWN) | H D2.0 |
| | ASPHALT PAVING - PEDESTRIAN | D D2.0 |
| | ASPHALT PAVING - VEHICULAR | D D2.0 |
| | CONCRETE PAVING - PEDESTRIAN | A D2.0 |
| | CONCRETE PAVING - VEHICULAR | A D2.0 |
| | TRUNCATED DOMES | C D3.0 |
| | REUSED INFIELD FINES | O D2.0 |
| | EXPANSION JOINT SCORE JOINT | B D2.0 |
| | TRASH AND RECYCLING RECEPTACLE PAD | N D2.0 |
| | EGRESS LIGHTING (REFER TO ELECTRICAL PLANS) | |
| | SPORTSFIELD LIGHTING (REFER TO ELECTRICAL AND SPORT LIGHTING PLANS) | |
| | 42" TALL CHAIN LINK FENCE | E D4.0 |
| | 8' ORNAMENTAL FENCE | I D4.0 |
| | 8' TALL CHAIN LINK FENCE | F D4.0 |
| | 8' TALL CHAIN LINK FENCE WITH WINDSCREEN | F D4.0 |
| | 14' TALL CHAIN LINK FENCE WITH WINDSCREEN (BATTING CAGE) | G D4.0 |
| | 30' TALL PROTECTIVE NETTING | B D4.1 |
| | GUARD RAIL SYSTEM | J D4.0 |
| | TRENCH DRAIN | G D1.0 |
| | HEADERBOARD | J D2.0 |
| 1 | 42"X4' SWING GATE (REFER TO L1.0 FOR ACCESSIBLE LOCATIONS) | A D4.2 |
| 2 | 8' TALL X 4' SWING GATE (REFER TO L1.0 FOR ACCESSIBLE LOCATIONS) | B D4.2 |
| 3 | 8' TALL - DOUBLE SWING GATE (8', 10' OR 20' WIDTH) | C D4.2 |
| 4 | 8' TALL - DOUBLE SWING GATE MIXED | F D4.2 |
| 5 | 20' WIDE SLIDING GATE | E D4.2 |
| 6 | ACCESS GATE | H D4.2 |
| 7 | 8' TALL X 4' SWING GATE - TRANSOM | D D4.2 |
| 8 | RESTROOM, CONCESSION & TICKET BUILDING (REFER TO ENVIROPLEX PLANS) | |
| 9 | ASPHALT PATCH | F D2.0 |
| 10 | 6" CURB @ PARKING LOT | D D2.1 |
| 11 | 6" WIDE CONCRETE CURB WITH CURB CUTS | E D2.1 |
| 12 | VERTICAL CURB, GUTTER & SIDEWALK | B D2.1 |
| 13 | BULLPEN CURB 1 | F D2.1 |
| 14 | BULLPEN CURB 2 | G D2.1 |

MATCHLINE - REFER TO SHEET L8.2

MATCHLINE - REFER TO SHEET L8.2

NORTH

0' 10' 20' 40' 60'

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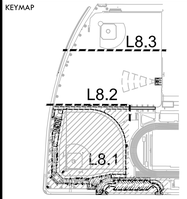


SHEET TITLE

MATERIAL AND DETAIL REFERENCE PLAN - BASEBALL FIELD

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
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| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| L8.1 | OF 122 |




DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_MAT- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

## ALTERNATE

| SYM | DESCRIPTION | DTL REF |
|---|---|---|
| A1 | ALTERNATE - HOME PLATE AREA, PITCHER'S MOUND AND BULLPENS SHALL BE CONSTRUCTED WITH INFIELD/WARNING TRACK FINES AND/OR CLAY IN LIEU OF SYNTHETIC TURF. REFER TO D5.2 | |

## MATERIAL LEGEND

| SYM | DESCRIPTION | DTL REF |
|---|---|---|
| 49 | SHOVEL CUT EDGE | R D6.0 |
| 50 | 12" CURB WITH FENCE | F D2.2 |
| 51 | RED "NO PARKING" PAINTED CURB (REFER TO SPECIFICATIONS) | |
| 52 | MARQUEE (REFER TO ELECTRICAL & NEVCO PLANS) | K D2.0 |
| 53 | SEAT WALL | B D2.2 |
| 54 | 18" CURB WITH FENCE | G D2.2 |
| 55 | 20" CURB WITH FENCE | H D2.2 |
| 56 | FENCE CONNECTION AT BUILDING | H D4.0 |
| 57 | 8' TALL X 4' WIDE ORNAMENTAL GATE- ACCESSIBLE | G D4.2 |
| 58 | 8' TALL x 8' WIDE DOUBLE ORNAMENTAL GATE | I D4.2 |
| 59 | 20" EDGEBAND WITH FENCE | D D2.2 |
| 32 | DISCUS CAGE AND PAD | A D2.2 |
| 33 | THIRD BASE DUGOUT PLANS & ELEVATIONS (REFER TO A8.0 & A8.1) | |
| 34 | FIRST BASE DUGOUT PLANS & ELEVATIONS (REFER TO A8.0 & A8.1) | |
| 35 | DRINKING FOUNTAIN PLAN | H/I D1.1 |
| 36 | BASEBALL INFIELD | A D5.0 |
| 37 | FOUL POLE | G D5.0 |
| 38 | SYNTHETIC TURF PITCHERS MOUND | H D5.0 |
| 39 | HOME PLATE, BATTER'S AND CATCHER'S BOX STRIPING | F D5.0 |
| 40 | BULLPEN - THIRD BASE | A D5.1 |
| 41 | BULLPEN - FIRST BASE | B D5.1 |
| 42 | BATTING CAGE | E D5.1 |
| 43 | BASEBALL BACKSTOP ELEVATION | A D4.1 |
| 44 | RELOCATED STORAGE CONTAINER (SHALL BE PAINTED, REFER TO SPECIFICATIONS) | |
| 45 | TREE WELL WITH GRATE | Q D6.0 |
| 46 | RULES SIGN (PROVIDE 4) | G D4.3 |
| 47 | WELCOME SIGN (PROVIDE 2) | I D4.3 |
| 48 | ACCESS SIGN (PROVIDE 4) | H D4.3 |
| 15 | 6" EDGEBAND | H D2.1 |
| 16 | EDGEBAND WITH FENCE @ EXISTING | J D2.1 |
| 17 | 12" EDGEBAND WITH FENCE | I D2.1 |
| 18 | EDGEBAND @ SLIDE GATE | K D2.1 |
| 19 | EXISTING BACKSTOP OR FENCE AT SYNTHETIC TURF | L D2.1 |
| 20 | 6" CURB | E D2.2 |
| 21 | BASEBALL FIELD LOGO | I D2.0 |
| 22 | BIKE RACK | L D2.0 |
| 23 | PICNIC TABLE | M D2.0 |
| 24 | ACCESSIBLE PARKING STALL - 45 DEGREE | A D3.0 |
| 25 | RAMP @ CROSSWALK | I D3.0 |
| 26 | RAMP @ DUGOUT | J D3.0 |
| 27 | WHEEL STOP | E D3.0 |
| 28 | PARKING TOW AWAY SIGN | F D3.0 |
| 29 | STOP SIGN | G D3.0 |
| 30 | DO NOT ENTER SIGN | H D3.0 |
| 31/31a | FENCE CAP- YELLOW (REFER TO SPECIFICATIONS)<br>FENCE CAP- BLACK (REFER TO SPECIFICATIONS) | |

## MATERIAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

## MATERIAL LEGEND

| SYM | DESCRIPTION | DTL REF |
|---|---|---|
| | SYNTHETIC TURF (GREEN) | H D2.0 |
| | SYNTHETIC TURF WARNING TRACK (BROWN) | H D2.0 |
| | SYNTHETIC TURF INFIELD (BROWN) | H D2.0 |
| | ASPHALT PAVING - PEDESTRIAN | D D2.0 |
| | ASPHALT PAVING - VEHICULAR | D D2.0 |
| | CONCRETE PAVING - PEDESTRIAN | A D2.0 |
| | CONCRETE PAVING - VEHICULAR | A D2.0 |
| | TRUNCATED DOMES | C D3.0 |
| | REUSED INFIELD FINES | O D2.0 |
| | EXPANSION JOINT<br>SCORE JOINT | B D2.0 |
| | TRASH AND RECYCLING RECEPTACLE PAD | N D2.0 |
| | EGRESS LIGHTING (REFER TO ELECTRICAL PLANS) | |
| | SPORTSFIELD LIGHTING (REFER TO ELECTRICAL AND SPORT LIGHTING PLANS) | |
| | 42" TALL CHAIN LINK FENCE | E D4.0 |
| | 8' ORNAMENTAL FENCE | I D4.0 |
| | 8' TALL CHAIN LINK FENCE | F D4.0 |
| | 8' TALL CHAIN LINK FENCE WITH WINDSCREEN | F D4.0 |
| | 14' TALL CHAIN LINK FENCE WITH WINDSCREEN (BATTING CAGE) | G D4.0 |
| | 30' TALL PROTECTIVE NETTING | B D4.1 |
| | GUARD RAIL SYSTEM | J D4.0 |
| | TRENCH DRAIN | G D1.0 |
| | HEADERBOARD | J D2.0 |
| 1 | 42"X4' SWING GATE (REFER TO L1.0 FOR ACCESSIBLE LOCATIONS) | A D4.2 |
| 2 | 8' TALL X 4' SWING GATE (REFER TO L1.0 FOR ACCESSIBLE LOCATIONS) | B D4.2 |
| 3 | 8' TALL - DOUBLE SWING GATE (8', 10' OR 20' WIDTH) | C D4.2 |
| 4 | 8' TALL - DOUBLE SWING GATE MIXED | F D4.2 |
| 5 | 20' WIDE SLIDING GATE | E D4.2 |
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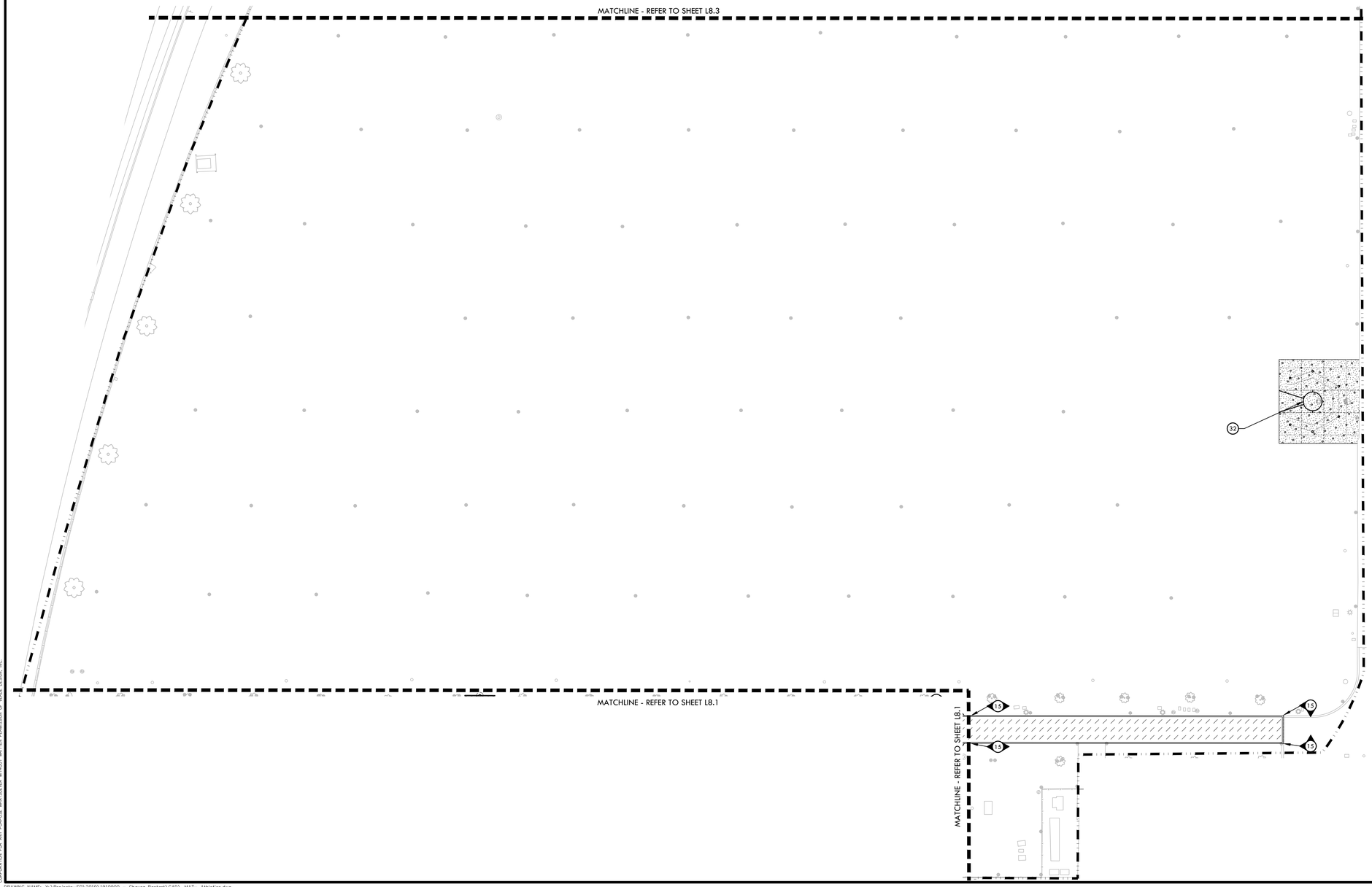
| 7 | 8' TALL X 4' SWING GATE - TRANSOM | D D4.2 |
| 8 | RESTROOM, CONCESSION & TICKET BUILDING (REFER TO ENVIROPLEX PLANS) | |
| 9 | ASPHALT PATCH | F D2.0 |
| 10 | 6" CURB @ PARKING LOT | D D2.1 |
| 11 | 6" WIDE CONCRETE CURB WITH CURB CUTS | E D2.1 |
| 12 | VERTICAL CURB, GUTTER & SIDEWALK | B D2.1 |
| 13 | BULLPEN CURB 1 | F D2.1 |
| 14 | BULLPEN CURB 2 | G D2.1 |




IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

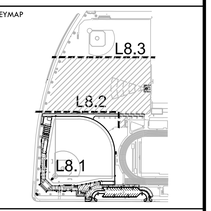
VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE
MATERIAL AND DETAIL REFERENCE PLAN - MULTI-USE SOUTH

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |

| DRAWN BY | CHECKED BY |
|---|---|
| HM | CS |
| DATE ISSUED: 03/27/20 | SCALE |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: L8.2 OF 122 | |

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_MAT- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

## ALTERNATE

| SYM | DESCRIPTION | DTL REF |
|---|---|---|
| A1 | ALTERNATE - HOME PLATE AREA, PITCHERS MOUND AND BULLPENS SHALL BE CONSTRUCTED WITH INFIELD/WARNING TRACK FINES AND/OR CLAY IN LIEU OF SYNTHETIC TURF. REFER TO D5.2 | |
| | | |
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| | | |
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| | | |

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| | TRASH AND RECYCLING RECEPTACLE PAD | N D2.0 |
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| | SPORTSFIELD LIGHTING (REFER TO ELECTRICAL AND SPORT LIGHTING PLANS) | |
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| | 8' ORNAMENTAL FENCE | I D4.0 |
| | 8' TALL CHAIN LINK FENCE | F D4.0 |
| | 8' TALL CHAIN LINK FENCE WITH WINDSCREEN | F D4.0 |
| | 14' TALL CHAIN LINK FENCE WITH WINDSCREEN (BATTING CAGE) | G D4.0 |
| | 30' TALL PROTECTIVE NETTING | B D4.1 |
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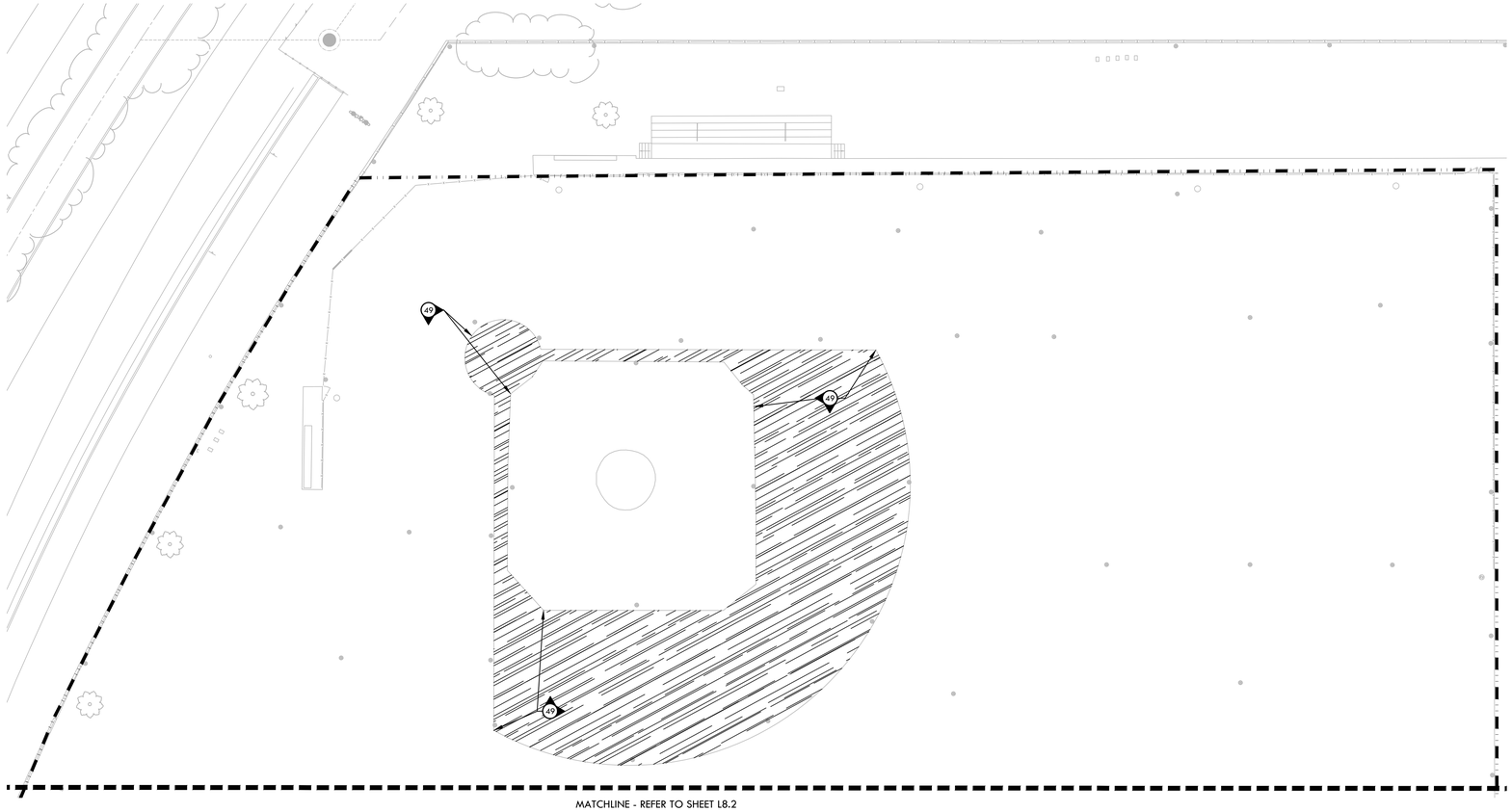


MATCHLINE - REFER TO SHEET L8.2

NORTH

0' 10' 20' 40' 60'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020


VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com


STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

MATERIAL AND DETAIL REFERENCE PLAN - MULTI-USE NORTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
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| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
|---|---|---|
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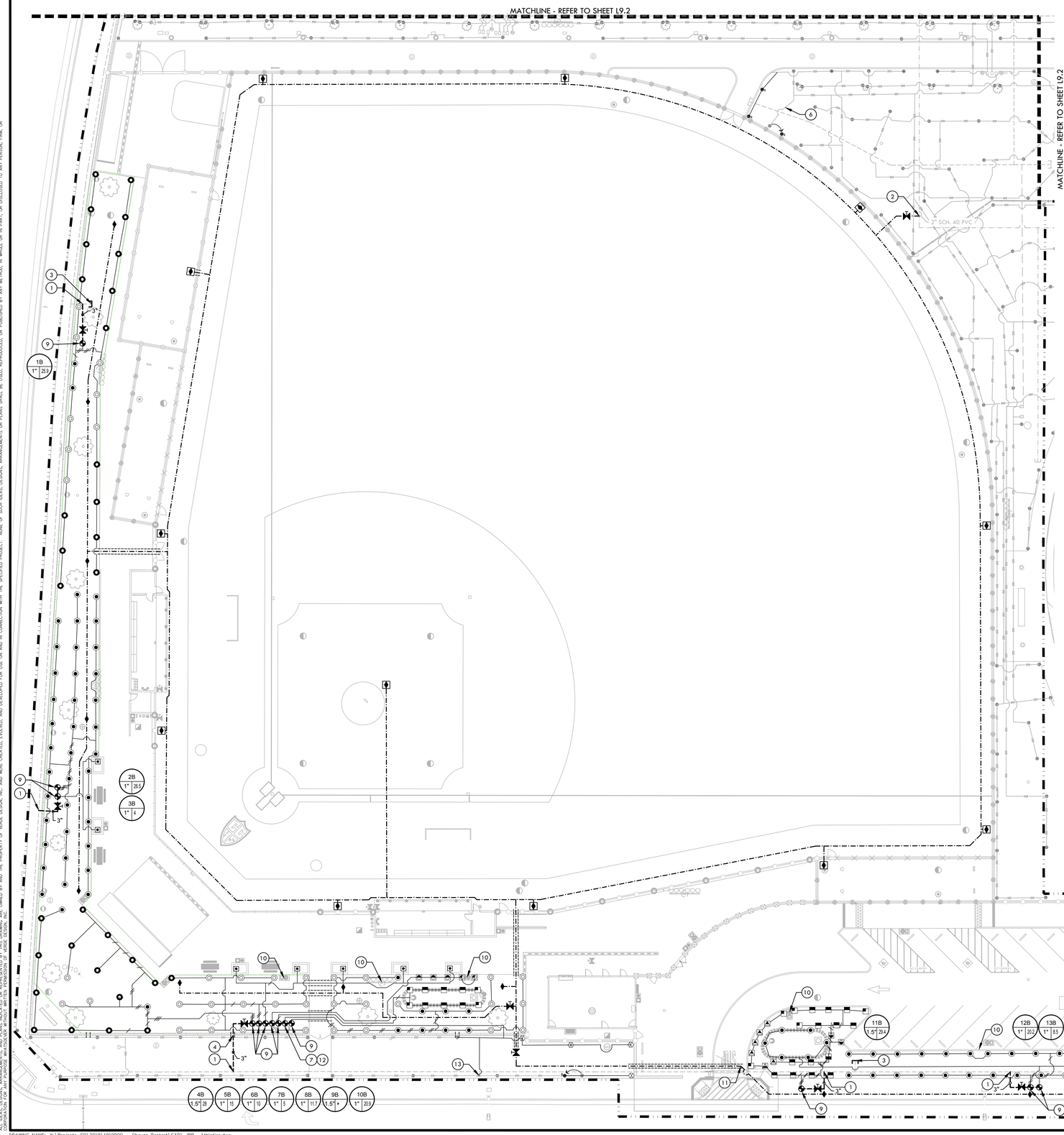
| DRAWN BY | CHECKED BY |
|---|---|
| HM | CS |
| DATE ISSUED: 03/27/20 | SCALE: |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: L8.3 | OF 122 |



DRAWING NAME: Y:\Projects-FO\2019\1910900 – Chavez Restart\CAD_MAT– Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40




| | |
|---|---|
| 1 | IRRIGATION MAIN LINE POINT OF CONNECTION, TIE INTO EXISTING MAINLINE. |
| 2 | DOMESTIC WATER LINE POINT OF CONNECTION (FOR QUICK COUPLERS), TIE INTO EXISTING DOMESTIC WATER LINE. |
| 3 | CONTRACTOR TO CUT AND CAP EXISTING MAIN LINE, LATERAL LINE OR DOMESTIC WATER LINE, REFER TO PLANS. |
| 4 | CONTRACTOR TO HORIZONTALLY BORE UNDERNEATH HARDSCAPE TO INSTALL SLEEVE AND RUN VALVE LATERAL LINE OR MAIN LINE AS SHOWN. |
| 5 | EXISTING ROTOR TO BE RELOCATED. CONTRACTOR TO RELOCATE EXISTING ROTOR TO NEW LOCATION SHOWN ON THE PLANS, EXTEND NEW LATERAL LINE AS NEEDED. |
| 6 | EXISTING LATERAL LINE TO BE REPLACED. CONTRACTOR TO REMOVE EXISTING LATERAL LINE AND INSTALL NEW PVC SCH. 40 LATERAL LINE SIZE PER THE PLANS. |
| 7 | CONTRACTOR TO VERIFY EXISTING VALVE SIZE AND REPORT FINDINGS TO DISTRICT. IF EXISTING VALVE SIZE IS TOO SMALL FOR THE ADJUSTED ZONE, CONTRACTOR TO REMOVE EXISTING VALVE AND INSTALL APPROPRIATELY SIZED VALVE. |
| 8 | NEW VALVE/STATION. CONTRACTOR TO INSTALL VALVE ADJACENT TO EXISTING VALVES. VERIFY CONTROLLER OPERATION AND SPARE WIRES AVAILABLE AT THE EXISTING VALVES, EXTEND WIRE TO NEW VALVE AS NEEDED. |
| 9 | NEW VALVE TO BE WIRED USING SALVAGED WIRES FROM PROJECT SITE. REFER TO DEMO PLAN FOR ADDITIONAL INFORMATION. CONTRACTOR TO EXTEND WIRES TO IRRIGATION VALVE. |
| 10 | AVOID UTILITY LINE OR STRUCTURE. |
| 11 | IRRIGATION LINE /EQUIPMENT SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR TO INSTALL IRRIGATION LINE/EQUIPMENT IN ADJACENT PLANTER. |
| 12 | CONTRACTOR TO DETERMINE LATERAL LINE LAYOUT BASED ON PROJECT SITE EXISTING CONDITIONS. LATERAL LINE LAYOUT SHALL NOT EXCEED 5 FPS. |
| 13 | CONTRACTOR TO CONNECT EXISTING LATERAL LINE TO NEW LATERAL LINE AS SHOWN ON THE DRAWINGS AND VERIFY SYSTEM OPERATION. |
| 14 | CONTRACTOR TO REPAIR OR REPLACE ANY DAMAGED EXISTING IRRIGATION EQUIPMENT TO AS-WAS OR BETTER CONDITION. REFER TO DEMOLITION PLAN FOR ADDITIONAL INFORMATION. |
| | LIMIT OF WORK |
| 1 / 1" \| 11.5 | CONTROLLER STATION NUMBER<br>APPROX. GPM FLOW THROUGH VALVE<br>CONTROL VALVE SIZE |

# IRRIGATION NOTES

1. THIS SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (XX) GPM WITH A MINIMUM (50) STATIC P.S.I. AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND RE-DIRECT WORK TO AVOID DELAY.
2. CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL STUB APPROPRIATE POWER SUPPLY IN VICINITY OF CONTROLLER LOCATION.
3. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
4. CONTRACTOR SHALL PROGRAM CONTROLLER TO ENSURE PROPER IRRIGATION. BASED ON PLANT TYPE, EXPOSURE AND SEASON.
5. CONTRACTOR SHALL USE EXTREME CARE WHERE IT IS NECESSARY TO TRENCH NEAR EXISTING TREES. EXCAVATION IN AREAS EXHIBITING ROOT 3" AND LARGER SHALL BE DONE BY HAND. ROOTS 2" OR LARGER IN DIAMETER DAMAGED IN CONSTRUCTION SHALL BE CLEANLY CUT.
6. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY.
7. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

# IRRIGATION LEGEND

| SYM. | ITEM | MODEL NO./ DESCRIPTION | CAT. RAD./ DES. RAD | GPM | PSI | DTL REF |
|---|---|---|---|---|---|---|
| | ROTOR | RAIN BIRD 6504 F4-PC-SS PARTIAL CIRCLE ROTOR | 59'/50' | 12.7 | 50 | H D6.0 |
| | ROTOR | RAIN BIRD 6504 F4-FC-SS FULL CIRCLE ROTOR | 59'/50' | 12.7 | 50 | |
| | ROTATOR | RAINBIRD 1806-SAM-PRS BODY WITH R-VAN-14 ADJ. ARC / FULL CIRCLE NOZZLE | 13'/11' | 0.28-1.10 | 30 | |
| | ROTATOR | RAINBIRD 1806-SAM-PRS BODY WITH R-VAN-18 ADJ. ARC / FULL CIRCLE NOZZLE | 16'/14' | 0.42-1.65 | 30 | |
| | ROTATOR | RAINBIRD 1806-SAM-PRS BODY WITH R-VAN-24 ADJ. ARC / FULL CIRCLE NOZZLE | 19'/17' | 0.60-2.35 | 30 | |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 4VAN VARIABLE ARC NOZZLE | 4'/3.5' | 0.29-0.88 | 30 | I D6.0 |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 6VAN VARIABLE ARC NOZZLE | 6'/5' | 0.37-1.20 | 30 | |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 8VAN VARIABLE ARC NOZZLE | 8'/6.5' | 0.72-1.70 | 30 | |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 10VAN VARIABLE ARC NOZZLE | 10'/8.5' | 0.75-2.60 | 30 | |
| | ROTOR/SPRAY | NEW ROTOR/SPRAY HEAD TO MATCH EXISTING RADIUS AND THROW AS ADJACENT HEAD. CONTRACTOR TO ADJUST PATTERN AS NEEDED TO ACHIEVE HEAD TO HEAD COVERAGE. | | | | |
| | BUBBLER | RAIN BIRD: RWS-B-C-1402 ROOT WATER ASSEMBLY 2 PER 15 GAL TREE. 4 PER 24" BOX, 6 PER 36" AND 48" BOX | - | 0.5 | | M D6.0 |
| | REMOTE CONTROL VALVE | RAIN BIRD: PEB SERIES REMOTE CONTROL VALVE WITH PRESSURE REGULAROR - SIZE AS NOTED | | | | E D6.0 |
| | GATE VALVE | GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT. | | | | C/D D6.0 |
| | QUICK COUPLER VALVE | RAIN BIRD: 44LRC QUICK COUPLING VALVE IN LANDSCAPE | | | | F D6.0 |
| | QUICK COUPLER VALVE | RAIN BIRD: 44LRC QUICK COUPLING VALVE IN HARDSCAPE OR SYNTHETIC TURF | | | | G D6.0 |
| | LATERAL LINE | 3/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | J D6.0 |
| | LATERAL LINE | 1" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 1-1/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 1-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 2-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 3" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | MAINLINE | 2" AND SMALLER: SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS; 2-1/2" AND LARGER: CLASS 200 WITH RING - TITE CONNECTIONS WITH 24" COVER. | | | | |
| | MAINLINE FOR QUICK COUPLERS | 2" SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS WITH 24" COVER. | | | | |
| | SLEEVES | IRRIGATION SLEEVE - CLASS 200 PVC, SIZE AS NOTED WITH 30" COVER. | | | | |
| | EXISTING MAINLINE | EXISTING IRRIGATION MAINLINE BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY SIZE AND LOCATIONS PRIOR TO CONSTRUCTION. MAIN LINE TO REMAIN UNLESS OTHERWISE NOTED. | | | | |
| | EXISTING MAINLINE | EXISTING IRRIGATION MAINLINE FOR QUICK COUPLERS BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY SIZE AND LOCATIONS PRIOR TO CONSTRUCTION. MAIN LINE TO REMAIN UNLESS OTHERWISE NOTED. | | | | |
| | EXISTING LATERAL LINE | EXISTING LATERAL LINE BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY APPROXIMATE SIZE AND LOCATIONS PRIOR TO CONSTRUCTION. | | | | |
| | EXISTING IRRIGATION HEAD | EXISTING IRRIGATION HEAD BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY APPROXIMATE LOCATIONS IN FIELD PRIOR TO CONSTRUCTION. | | | | |
| | EXISTING IRRIGATION HEAD | EXISTING IRRIGATION HEAD TO BE RELOCATED PER DRAWINGS. CONTRACTOR TO EXTEND LATERAL AS NEEDED. CONTRACTOR TO ADJUST SPRAY PATTERN AS NEEDED TO AVOID SPRAYING ADJACENT HARDSCAPE. | | | | |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020


VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com


STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

IRRIGATION PLAN - BASEBALL FIELD

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
| | |

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
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| | | |
| | | |
| | | |

| DRAWN BY | CHECKED BY |
|---|---|
| JC | CS |
| DATE ISSUED: 03/27/20 | SCALE: 1" = 20'-0" |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: L9.1 OF 122 | |



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_IRR- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

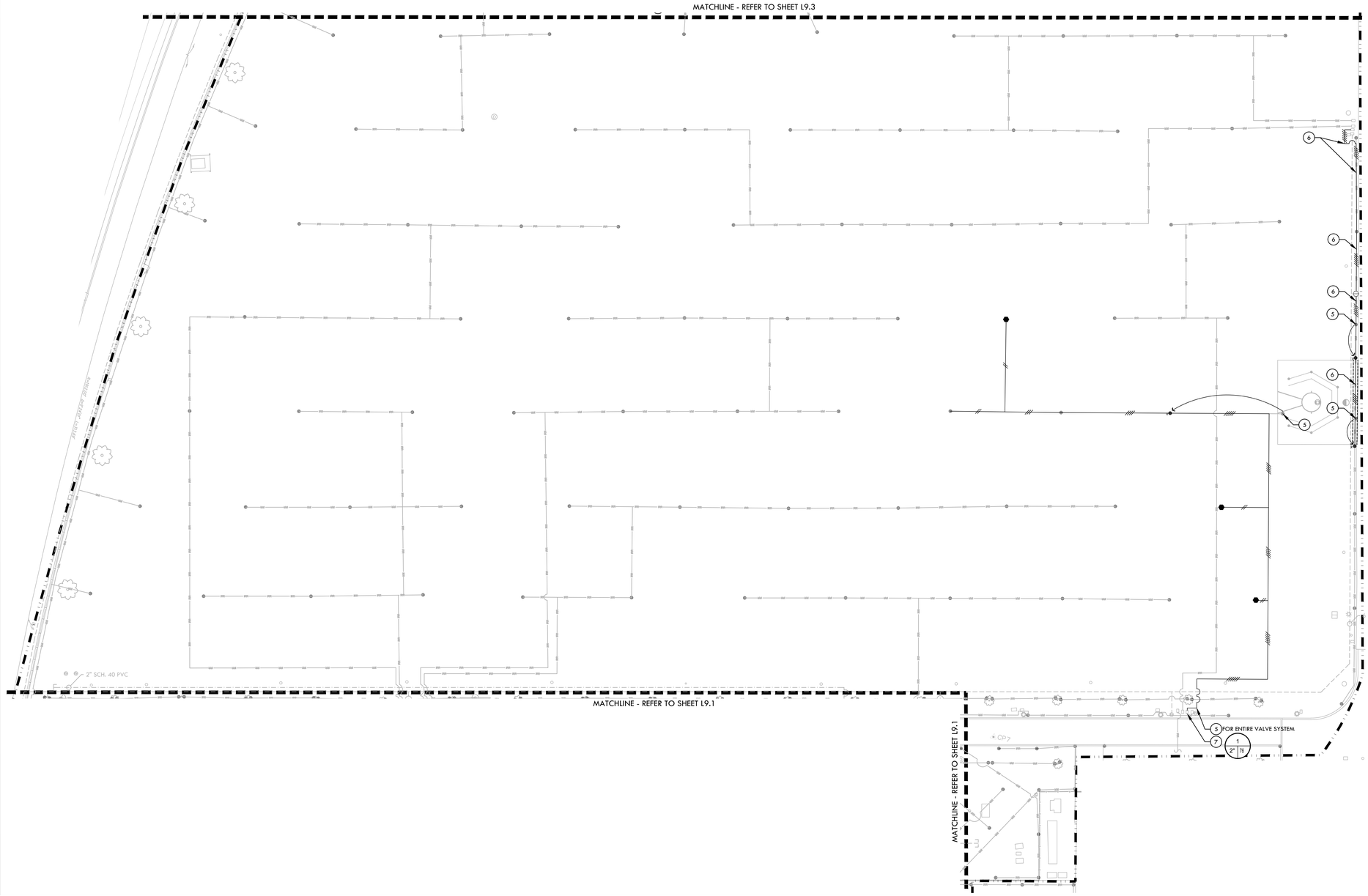
| | |
|---|---|
| 1 | IRRIGATION MAIN LINE POINT OF CONNECTION, TIE INTO EXISTING MAINLINE. |
| 2 | DOMESTIC WATER LINE POINT OF CONNECTION (FOR QUICK COUPLERS), TIE INTO EXISTING DOMESTIC WATER LINE. |
| 3 | CONTRACTOR TO CUT AND CAP EXISTING MAIN LINE, LATERAL LINE OR DOMESTIC WATER LINE, REFER TO PLANS. |
| 4 | CONTRACTOR TO HORIZONTALLY BORE UNDERNEATH HARDSCAPE TO INSTALL SLEEVE AND RUN VALVE LATERAL LINE OR MAIN LINE AS SHOWN. |
| 5 | EXISTING ROTOR TO BE RELOCATED. CONTRACTOR TO RELOCATE EXISTING ROTOR TO NEW LOCATION SHOWN ON THE PLANS, EXTEND NEW LATERAL LINE AS NEEDED. |
| 6 | EXISTING LATERAL LINE TO BE REPLACED. CONTRACTOR TO REMOVE EXISTING LATERAL LINE AND INSTALL NEW PVC SCH. 40 LATERAL LINE SIZE PER THE PLANS. |
| 7 | CONTRACTOR TO VERIFY EXISTING VALVE SIZE AND REPORT FINDINGS TO DISTRICT. IF EXISTING VALVE SIZE IS TOO SMALL FOR THE ADJUSTED ZONE, CONTRACTOR TO REMOVE EXISTING VALVE AND INSTALL APPROPRIATELY SIZED VALVE. |
| 8 | NEW VALVE/STATION. CONTRACTOR TO INSTALL VALVE ADJACENT TO EXISTING VALVES. VERIFY CONTROLLER OPERATION AND SPARE WIRES AVAILABLE AT THE EXISTING VALVES, EXTEND WIRE TO NEW VALVE AS NEEDED. |
| 9 | NEW VALVE TO BE WIRED USING SALVAGED WIRES FROM PROJECT SITE. REFER TO DEMO PLAN FOR ADDITIONAL INFORMATION. CONTRACTOR TO EXTEND WIRES TO IRRIGATION VALVE. |
| 10 | AVOID UTILITY LINE OR STRUCTURE. |
| 11 | IRRIGATION LINE /EQUIPMENT SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR TO INSTALL IRRIGATION LINE/EQUIPMENT IN ADJACENT PLANTER. |
| 12 | CONTRACTOR TO DETERMINE LATERAL LINE LAYOUT BASED ON PROJECT SITE EXISTING CONDITIONS. LATERAL LINE LAYOUT SHALL NOT EXCEED 5 FPS. |
| 13 | CONTRACTOR TO CONNECT EXISTING LATERAL LINE TO NEW LATERAL LINE AS SHOWN ON THE DRAWINGS AND VERIFY SYSTEM OPERATION. |
| 14 | CONTRACTOR TO REPAIR OR REPLACE ANY DAMAGED EXISTING IRRIGATION EQUIPMENT TO AS-WAS OR BETTER CONDITION. REFER TO DEMOLITION PLAN FOR ADDITIONAL INFORMATION. |
| | LIMIT OF WORK |
| 1 / 1" \| 11.5 | CONTROLLER STATION NUMBER<br>APPROX. GPM FLOW THROUGH VALVE<br>CONTROL VALVE SIZE |

# IRRIGATION NOTES

1. THIS SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (XX) GPM WITH A MINIMUM (50) STATIC P.S.I. AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND RE-DIRECT WORK TO AVOID DELAY.
2. CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL STUB APPROPRIATE POWER SUPPLY IN VICINITY OF CONTROLLER LOCATION.
3. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
4. CONTRACTOR SHALL PROGRAM CONTROLLER TO ENSURE PROPER IRRIGATION. BASED ON PLANT TYPE, EXPOSURE AND SEASON.
5. CONTRACTOR SHALL USE EXTREME CARE WHERE IT IS NECESSARY TO TRENCH NEAR EXISTING TREES. EXCAVATION IN AREAS EXHIBITING ROOT 3" AND LARGER SHALL BE DONE BY HAND. ROOTS 2" OR LARGER IN DIAMETER DAMAGED IN CONSTRUCTION SHALL BE CLEANLY CUT.
6. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY.
7. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

# IRRIGATION LEGEND

| SYM. | ITEM | MODEL NO./ DESCRIPTION | CAT. RAD./ DES. RAD | GPM | PSI | DTL REF |
|---|---|---|---|---|---|---|
| | ROTOR | RAIN BIRD 6504 F4-PC-SS PARTIAL CIRCLE ROTOR | 59'/50' | 12.7 | 50 | H D6.0 |
| | ROTOR | RAIN BIRD 6504 F4-FC-SS FULL CIRCLE ROTOR | 59'/50' | 12.7 | 50 | |
| | ROTATOR | RAINBIRD 1806-SAM-PRS BODY WITH R-VAN-14 ADJ. ARC / FULL CIRCLE NOZZLE | 13'/11' | 0.28-1.10 | 30 | |
| | ROTATOR | RAINBIRD 1806-SAM-PRS BODY WITH R-VAN-18 ADJ. ARC / FULL CIRCLE NOZZLE | 16'/14' | 0.42-1.65 | 30 | |
| | ROTATOR | RAINBIRD 1806-SAM-PRS BODY WITH R-VAN-24 ADJ. ARC / FULL CIRCLE NOZZLE | 19'/17' | 0.60-2.35 | 30 | |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 4VAN VARIABLE ARC NOZZLE | 4'/3.5' | 0.29-0.88 | 30 | I D6.0 |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 6VAN VARIABLE ARC NOZZLE | 6'/5' | 0.37-1.20 | 30 | |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 8VAN VARIABLE ARC NOZZLE | 8'/6.5' | 0.72-1.70 | 30 | |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 10VAN VARIABLE ARC NOZZLE | 10'/8.5' | 0.75-2.60 | 30 | |
| | ROTOR/SPRAY | NEW ROTOR/SPRAY HEAD TO MATCH EXISTING RADIUS AND THROW AS ADJACENT HEAD. CONTRACTOR TO ADJUST PATTERN AS NEEDED TO ACHIEVE HEAD TO HEAD COVERAGE. | | | | |
| | BUBBLER | RAIN BIRD: RWS-B-C-1402 ROOT WATER ASSEMBLY 2 PER 15 GAL TREE. 4 PER 24" BOX, 6 PER 36" AND 48" BOX | - | 0.5 | | M D6.0 |
| | REMOTE CONTROL VALVE | RAIN BIRD: PEB SERIES REMOTE CONTROL VALVE WITH PRESSURE REGULAROR - SIZE AS NOTED | | | | E D6.0 |
| | GATE VALVE | GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT. | | | | C/D D6.0 |
| | QUICK COUPLER VALVE | RAIN BIRD: 44LRC QUICK COUPLING VALVE IN LANDSCAPE | | | | F D6.0 |
| | QUICK COUPLER VALVE | RAIN BIRD: 44LRC QUICK COUPLING VALVE IN HARDSCAPE OR SYNTHETIC TURF | | | | G D6.0 |
| | LATERAL LINE | 3/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 1" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 1-1/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 1-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | J D6.0 |
| | LATERAL LINE | 2-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 3" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | MAINLINE | 2" AND SMALLER: SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS; 2-1/2" AND LARGER: CLASS 200 WITH RING - TITE CONNECTIONS WITH 24" COVER. | | | | |
| | MAINLINE FOR QUICK COUPLERS | 2" SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS WITH 24" COVER. | | | | |
| | SLEEVES | IRRIGATION SLEEVE - CLASS 200 PVC, SIZE AS NOTED WITH 30" COVER. | | | | |
| | EXISTING MAINLINE | EXISTING IRRIGATION MAINLINE BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY SIZE AND LOCATIONS PRIOR TO CONSTRUCTION. MAIN LINE TO REMAIN UNLESS OTHERWISE NOTED. | | | | |
| | EXISTING MAINLINE | EXISTING IRRIGATION MAINLINE FOR QUICK COUPLERS BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY SIZE AND LOCATIONS PRIOR TO CONSTRUCTION. MAIN LINE TO REMAIN UNLESS OTHERWISE NOTED. | | | | |
| | EXISTING LATERAL LINE | EXISTING LATERAL LINE BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY APPROXIMATE SIZE AND LOCATIONS PRIOR TO CONSTRUCTION. | | | | |
| | EXISTING IRRIGATION HEAD | EXISTING IRRIGATION HEAD BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY APPROXIMATE LOCATIONS IN FIELD PRIOR TO CONSTRUCTION. | | | | |
| | EXISTING IRRIGATION HEAD | EXISTING IRRIGATION HEAD TO BE RELOCATED PER DRAWINGS. CONTRACTOR TO EXTEND LATERAL AS NEEDED. CONTRACTOR TO ADJUST SPRAY PATTERN AS NEEDED TO AVOID SPRAYING ADJACENT HARDSCAPE. | | | | |




IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

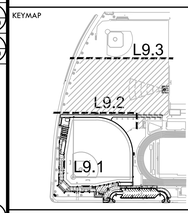
VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

IRRIGATION PLAN - MULTI-USE SOUTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
| | |

| NO. | REVISIONS | DATE |
|---|---|---|
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| | |
|---|---|
| DRAWN BY: JC | CHECKED BY: CS |
| DATE ISSUED: 03/27/20 | SCALE: 1" = 20'-0" |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: L9.2 OF 122 | |



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_IRR- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

| | |
|---|---|
| 1 | IRRIGATION MAIN LINE POINT OF CONNECTION, TIE INTO EXISTING MAINLINE. |
| 2 | DOMESTIC WATER LINE POINT OF CONNECTION (FOR QUICK COUPLERS), TIE INTO EXISTING DOMESTIC WATER LINE. |
| 3 | CONTRACTOR TO CUT AND CAP EXISTING MAIN LINE, LATERAL LINE OR DOMESTIC WATER LINE, REFER TO PLANS. |
| 4 | CONTRACTOR TO HORIZONTALLY BORE UNDERNEATH HARDSCAPE TO INSTALL SLEEVE AND RUN VALVE LATERAL LINE OR MAIN LINE AS SHOWN. |
| 5 | EXISTING ROTOR TO BE RELOCATED. CONTRACTOR TO RELOCATE EXISTING ROTOR TO NEW LOCATION SHOWN ON THE PLANS, EXTEND NEW LATERAL LINE AS NEEDED. |
| 6 | EXISTING LATERAL LINE TO BE REPLACED. CONTRACTOR TO REMOVE EXISTING LATERAL LINE AND INSTALL NEW PVC SCH. 40 LATERAL LINE SIZE PER THE PLANS. |
| 7 | CONTRACTOR TO VERIFY EXISTING VALVE SIZE AND REPORT FINDINGS TO DISTRICT. IF EXISTING VALVE SIZE IS TOO SMALL FOR THE ADJUSTED ZONE, CONTRACTOR TO REMOVE EXISTING VALVE AND INSTALL APPROPRIATELY SIZED VALVE. |
| 8 | NEW VALVE/STATION. CONTRACTOR TO INSTALL VALVE ADJACENT TO EXISTING VALVES. VERIFY CONTROLLER OPERATION AND SPARE WIRES AVAILABLE AT THE EXISTING VALVES, EXTEND WIRE TO NEW VALVE AS NEEDED. |
| 9 | NEW VALVE TO BE WIRED USING SALVAGED WIRES FROM PROJECT SITE. REFER TO DEMO PLAN FOR ADDITIONAL INFORMATION. CONTRACTOR TO EXTEND WIRES TO IRRIGATION VALVE. |
| 10 | AVOID UTILITY LINE OR STRUCTURE. |
| 11 | IRRIGATION LINE /EQUIPMENT SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR TO INSTALL IRRIGATION LINE/EQUIPMENT IN ADJACENT PLANTER. |
| 12 | CONTRACTOR TO DETERMINE LATERAL LINE LAYOUT BASED ON PROJECT SITE EXISTING CONDITIONS. LATERAL LINE LAYOUT SHALL NOT EXCEED 5 FPS. |
| 13 | CONTRACTOR TO CONNECT EXISTING LATERAL LINE TO NEW LATERAL LINE AS SHOWN ON THE DRAWINGS AND VERIFY SYSTEM OPERATION. |
| 14 | CONTRACTOR TO REPAIR OR REPLACE ANY DAMAGED EXISTING IRRIGATION EQUIPMENT TO AS-WAS OR BETTER CONDITION. REFER TO DEMOLITION PLAN FOR ADDITIONAL INFORMATION. |
| | LIMIT OF WORK |
| 1 / 1" \| 1.5 | CONTROLLER STATION NUMBER / APPROX. GPM FLOW THROUGH VALVE / CONTROL VALVE SIZE |

# IRRIGATION NOTES

1. THIS SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (XX) GPM WITH A MINIMUM (50) STATIC P.S.I. AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND RE-DIRECT WORK TO AVOID DELAY.
2. CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL STUB APPROPRIATE POWER SUPPLY IN VICINITY OF CONTROLLER LOCATION.
3. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
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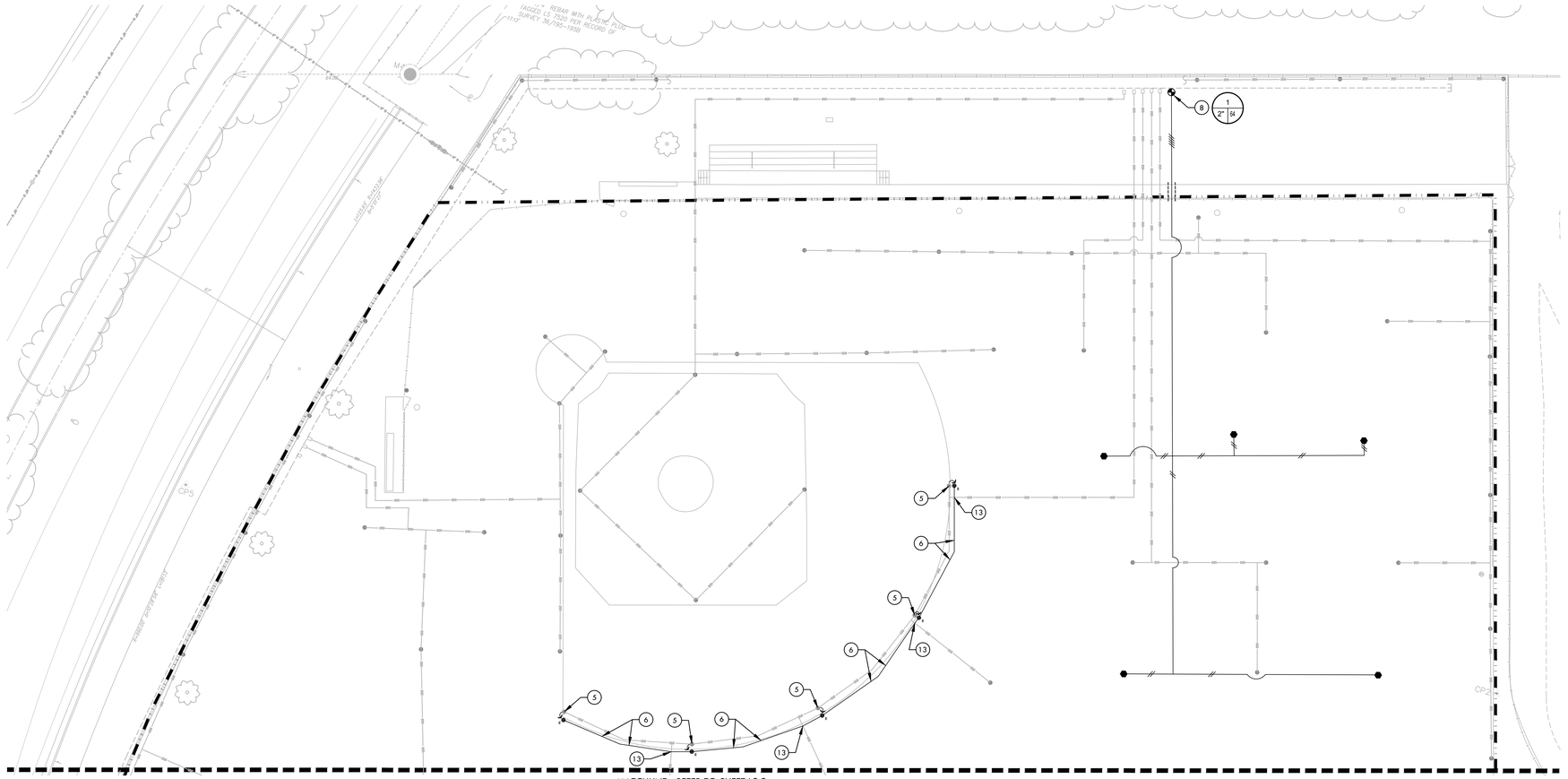
7. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

# IRRIGATION LEGEND

| SYM. | ITEM | MODEL NO./ DESCRIPTION | CAT. RAD./ DES. RAD | GPM | PSI | DTL REF |
|---|---|---|---|---|---|---|
| | ROTOR | RAIN BIRD 6504 F4-PC-SS PARTIAL CIRCLE ROTOR | 59'/50' | 12.7 | 50 | H D6.0 |
| | ROTOR | RAIN BIRD 6504 F4-FC-SS FULL CIRCLE ROTOR | 59'/50' | 12.7 | 50 | |
| | ROTATOR | RAINBIRD 1806-SAM-PRS BODY WITH R-VAN-14 ADJ. ARC / FULL CIRCLE NOZZLE | 13'/11' | 0.28-1.10 | 30 | |
| | ROTATOR | RAINBIRD 1806-SAM-PRS BODY WITH R-VAN-18 ADJ. ARC / FULL CIRCLE NOZZLE | 16'/14' | 0.42-1.65 | 30 | |
| | ROTATOR | RAINBIRD 1806-SAM-PRS BODY WITH R-VAN-24 ADJ. ARC / FULL CIRCLE NOZZLE | 19'/17' | 0.60-2.35 | 30 | |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 4VAN VARIABLE ARC NOZZLE | 4'/3.5' | 0.29-0.88 | 30 | I D6.0 |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 6VAN VARIABLE ARC NOZZLE | 6'/5' | 0.37-1.20 | 30 | |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 8VAN VARIABLE ARC NOZZLE | 8'/6.5' | 0.72-1.70 | 30 | |
| | SPRAY | RAINBIRD 1806-SAM-PRS BODY WITH 10VAN VARIABLE ARC NOZZLE | 10'/8.5' | 0.75-2.60 | 30 | |
| | ROTOR/SPRAY | NEW ROTOR/SPRAY HEAD TO MATCH EXISTING RADIUS AND THROW AS ADJACENT HEAD. CONTRACTOR TO ADJUST PATTERN AS NEEDED TO ACHIEVE HEAD TO HEAD COVERAGE. | | | | |
| | BUBBLER | RAIN BIRD: RWS-B-C-1402 ROOT WATER ASSEMBLY 2 PER 15 GAL TREE. 4 PER 24" BOX, 6 PER 36" AND 48" BOX | - | 0.5 | | M D6.0 |
| | REMOTE CONTROL VALVE | RAIN BIRD: PEB SERIES REMOTE CONTROL VALVE WITH PRESSURE REGULAROR - SIZE AS NOTED | | | | E D6.0 |
| | GATE VALVE | GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT. | | | | C/D D6.0 |
| | QUICK COUPLER VALVE | RAIN BIRD: 44LRC QUICK COUPLING VALVE IN LANDSCAPE | | | | F D6.0 |
| | QUICK COUPLER VALVE | RAIN BIRD: 44LRC QUICK COUPLING VALVE IN HARDSCAPE OR SYNTHETIC TURF | | | | G D6.0 |
| | LATERAL LINE | 3/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 1" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 1-1/4" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 1-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | J D6.0 |
| | LATERAL LINE | 2-1/2" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | LATERAL LINE | 3" LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER. | | | | |
| | MAINLINE | 2" AND SMALLER: SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS; 2-1/2" AND LARGER: CLASS 200 WITH RING - TITE CONNECTIONS WITH 24" COVER. | | | | |
| | MAINLINE FOR QUICK COUPLERS | 2" SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS WITH 24" COVER. | | | | |
| | SLEEVES | IRRIGATION SLEEVE - CLASS 200 PVC, SIZE AS NOTED WITH 30" COVER. | | | | |
| | EXISTING MAINLINE | EXISTING IRRIGATION MAINLINE BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY SIZE AND LOCATIONS PRIOR TO CONSTRUCTION. MAIN LINE TO REMAIN UNLESS OTHERWISE NOTED. | | | | |
| | EXISTING MAINLINE | EXISTING IRRIGATION MAINLINE FOR QUICK COUPLERS BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY SIZE AND LOCATIONS PRIOR TO CONSTRUCTION. MAIN LINE TO REMAIN UNLESS OTHERWISE NOTED. | | | | |
| | EXISTING LATERAL LINE | EXISTING LATERAL LINE BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY APPROXIMATE SIZE AND LOCATIONS PRIOR TO CONSTRUCTION. | | | | |
| | EXISTING IRRIGATION HEAD | EXISTING IRRIGATION HEAD BASED ON AS-BUILTS PROVIDED. CONTRACTOR TO VERIFY APPROXIMATE LOCATIONS IN FIELD PRIOR TO CONSTRUCTION. | | | | |
| | EXISTING IRRIGATION HEAD | EXISTING IRRIGATION HEAD TO BE RELOCATED PER DRAWINGS. CONTRACTOR TO EXTEND LATERAL AS NEEDED. CONTRACTOR TO ADJUST SPRAY PATTERN AS NEEDED TO AVOID SPRAYING ADJACENT HARDSCAPE. | | | | |




MATCHLINE - REFER TO SHEET L9.2

NORTH

0' 10' 20' 40' 60'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

IRRIGATION PLAN - MULTI-USE NORTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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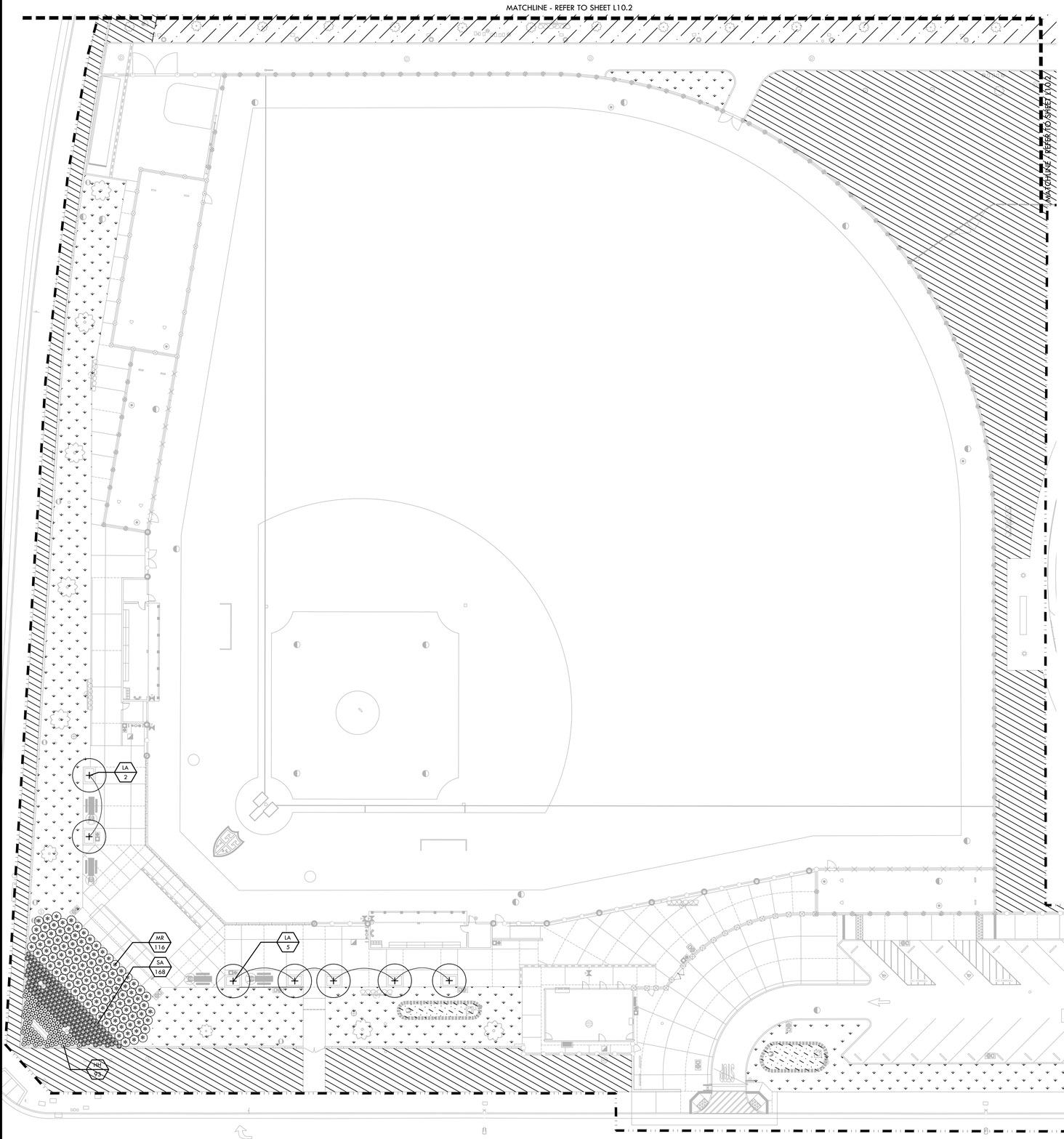
|---|---|
| JC | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |

PROJ. NO. 1910900-1211

SHEET NO. L9.3 OF 122



DRAWING NAME: Y:\Projects-FO\2019\1910900 – Chavez Restart\CAD_IRR- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40




# PLANTING NOTES

1. PLANT COUNTS SHOWN ARE FOR BIDDING REFERENCE ONLY. CONTRACTOR SHALL SUPPLY ALL PLANTS REQUIRED TO FULFILL DESIGN INTENT AS SHOWN.
2. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. OWNER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
3. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM OWNER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY OWNER'S REPRESENTATIVE.
4. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
5. WHEN WORK HAS TO OCCUR UNDER THE DRIP LINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
6. PIT PLANTINGS TO RECEIVE SOIL AMENDMENTS AND SOIL PREPARATION PER SPECIFICATIONS UNLESS OTHERWISE NOTED.

# PLANTING LEGEND

| SYM | QTY | SIZE | BOTANICAL/COMMON NAME | WUCOLS CLASSIFICATION | SPACING/ COMMENTS | DTL REF |
|---|---|---|---|---|---|---|
| **TREES** | | | | | | |
| GB | 7 | 15 GAL | GINKGO BILOBA 'JADE BUTTERFLY'<br>JADE BUTTERFLY MAIDENAIR TREE | MEDIUM | PER PLAN | N D6.0 |
| LA | 7 | 24" BOX | LAGERSTROEMIA INDICA<br>x FAURIERI 'TUSCARORA'<br>TUSCARORA CRAPE MYRTLE | LOW | PER PLAN | |
| **ACCENT PLANTING** | | | | | | |
| SA | 168 | 1 GAL | SESLERIA AUTUMNALIS<br>AUTUMN MOOR GRASS | MEDIUM | 2' O.C. | O D6.0 |
| **LOW PLANTING** | | | | | | |
| HH | 93 | 1 GAL | HEMEROCALLIS HYBRIDS<br>DAYLILY | MEDIUM | 2' O.C. | O D6.0 |
| **MEDIUM PLANTING** | | | | | | |
| MR | 200 | 5 GAL | MUHLENBERGIA RIGENS<br>DEER GRASS | LOW | 5' O.C. | O D6.0 |
| **MISCELLANEOUS** | | | | | | |

LIMIT OF REPAIR AT THE MULTI USE FIELD (IF DIFFERENT THAN LIMIT OF WORK)

NO-MOW BLEND, REFER TO SPECIFICATIONS.

SEEDED TURF, REFER TO SPECIFICATIONS

BIOFILTRATION SOD, REFER TO SPECIFICATIONS

CONTRACTOR TO REPLACE OR REPAIR EXISTING LANDSCAPE TO AS-WAS OR BETTER CONDITION IF DAMAGED DURING CONSTRUCTION.

PLANT SYMBOL — LJ
PLANT QUANTITY — 10

IDENTIFICATION STAMP
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VERDE DESIGN
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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKEN
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

PLANTING PLAN - BASEBALL FIELD

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

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| DRAWN BY | CHECKED BY |
|---|---|
| HM | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | 1" = 20'-0" |

PROJ. NO. 1910900-1211

SHEET NO. L10.1 OF 122



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_PLT- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

# PLANTING LEGEND

| SYM | QTY | SIZE | BOTANICAL/COMMON NAME | WUCOLS CLASSIFICATION | SPACING/ COMMENTS | DTL REF |
|---|---|---|---|---|---|---|
| TREES | | | | | | |
| GB | 7 | 15 GAL | GINKGO BILOBA 'JADE BUTTERFLY' JADE BUTTERFLY MAIDENAIR TREE | MEDIUM | PER PLAN | N D6.0 |
| LA | 7 | 24" BOX | LAGERSTROEMIA INDICA x FAURIERI 'TUSCARORA' TUSCARORA CRAPE MYRTLE | LOW | PER PLAN | |
| ACCENT PLANTING | | | | | | |
| SA | 168 | 1 GAL | SESLERIA AUTUMNALIS AUTUMN MOOR GRASS | MEDIUM | 2' O.C. | O D6.0 |
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| HH | 93 | 1 GAL | HEMEROCALLIS HYBRIDS DAYLILY | MEDIUM | 2' O.C. | O D6.0 |
| MEDIUM PLANTING | | | | | | |
| MR | 200 | 5 GAL | MUHLENBERGIA RIGENS DEER GRASS | LOW | 5' O.C. | O D6.0 |
| MISCELLANEOUS | | | | | | |

| | |
|---|---|
| | LIMIT OF REPAIR AT THE MULTI USE FIELD (IF DIFFERENT THAN LIMIT OF WORK) |
| | NO-MOW BLEND, REFER TO SPECIFICATIONS. |
| | SEEDED TURF, REFER TO SPECIFICATIONS |
| | BIOFILTRATION SOD, REFER TO SPECIFICATIONS |
| | CONTRACTOR TO REPLACE OR REPAIR EXISTING LANDSCAPE TO AS-WAS OR BETTER CONDITION IF DAMAGED DURING CONSTRUCTION. |
| PLANT SYMBOL | LJ |
| PLANT QUANTITY | 10 |

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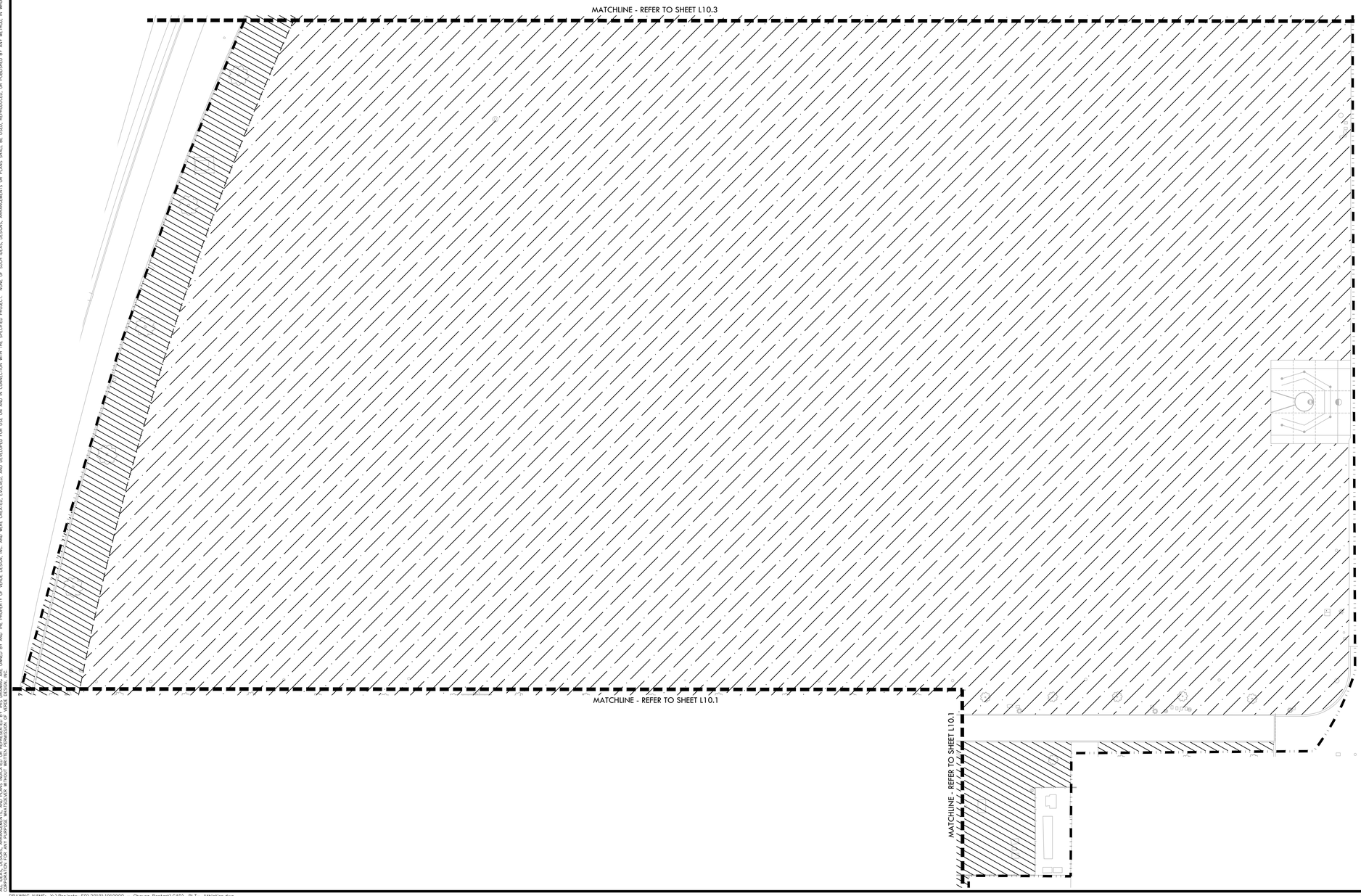


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MARK S. BARKEN
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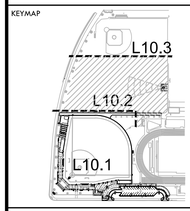
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

PLANTING PLAN - MULTI-USE SOUTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
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|---|---|---|
| 1 | | |
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| DRAWN BY | CHECKED BY |
|---|---|
| HM | CS |
| DATE ISSUED: 03/27/20 | SCALE: 1" = 20'-0" |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: L10.2 | OF 122 |

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| HH | 93 | 1 GAL | HEMEROCALLIS HYBRIDS<br>DAYLILY | MEDIUM | 2' O.C. | O D6.0 |
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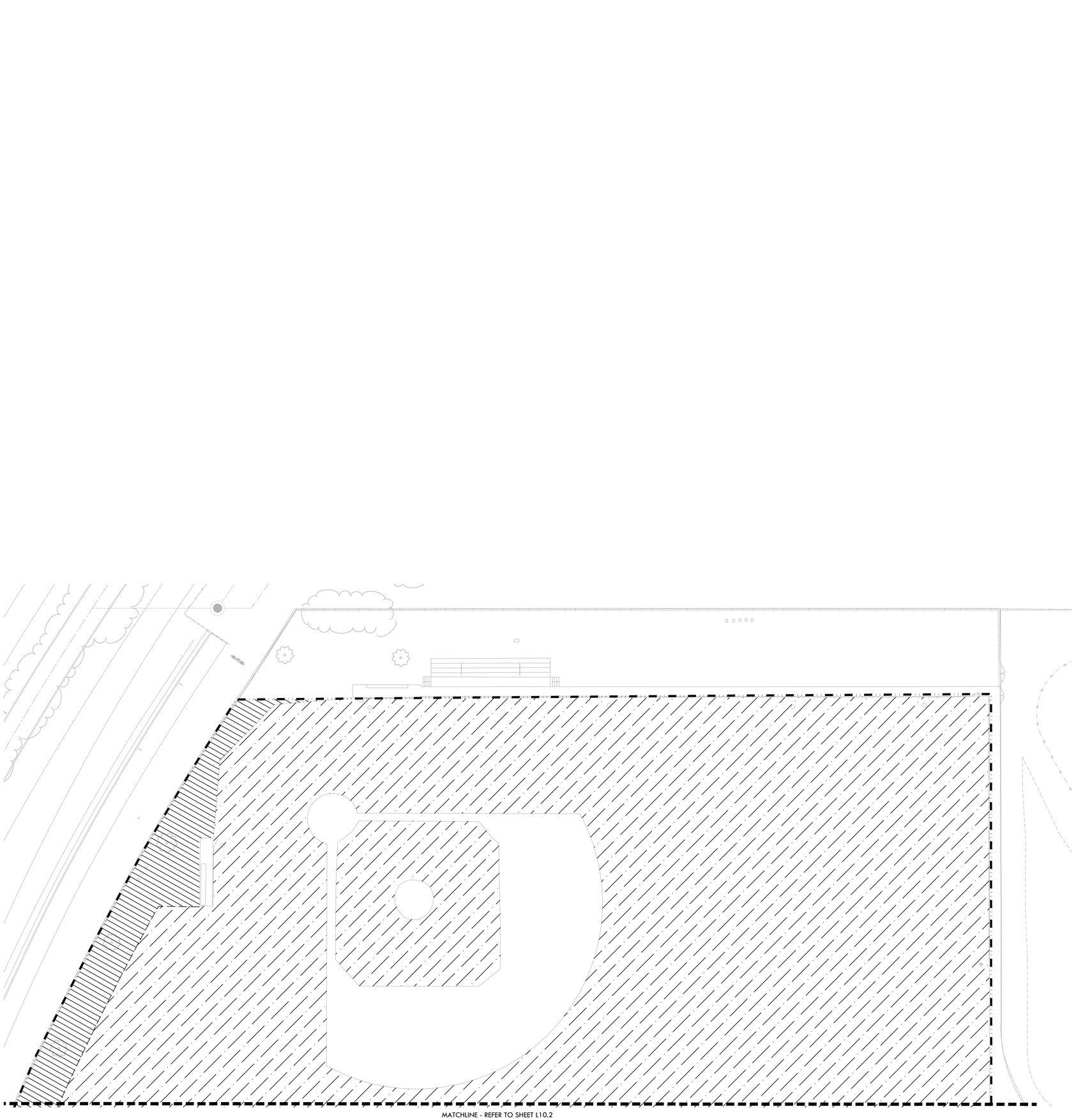
SEEDED TURF, REFER TO SPECIFICATIONS

BIOFILTRATION SOD, REFER TO SPECIFICATIONS

CONTRACTOR TO REPLACE OR REPAIR EXISTING LANDSCAPE TO AS-WAS OR BETTER CONDITION IF DAMAGED DURING CONSTRUCTION.

PLANT SYMBOL — LJ
PLANT QUANTITY — 10




NORTH
0' 10' 20' 40' 60'

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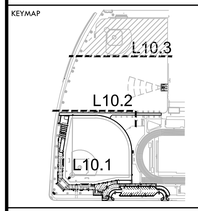
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP




SHEET TITLE

PLANTING PLAN - MULTI-USE NORTH

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

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| PROJ. NO.: 1910900-1211 | |
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DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_PLT- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

S

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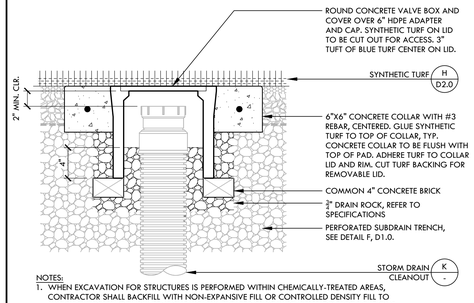
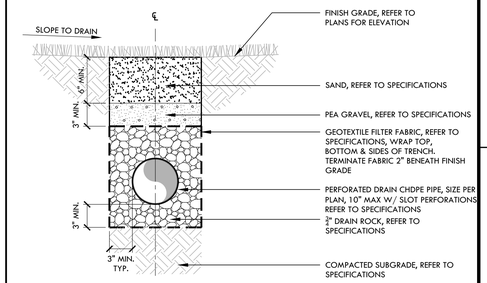
J CLEANOUT IN SYNTHETIC TURF NTS




NOTES:
1. WHEN EXCAVATION FOR STRUCTURES IS PERFORMED WITHIN CHEMICALLY-TREATED AREAS, CONTRACTOR SHALL BACKFILL WITH NON-EXPANSIVE FILL OR CONTROLLED DENSITY FILL TO MATCH THE DEPTH OF ADJACENT CHEMICALLY-TREATED SUBGRADE, REFER TO SPECIFICATIONS.

E FRENCH DRAIN IN SOFTSCAPE NTS

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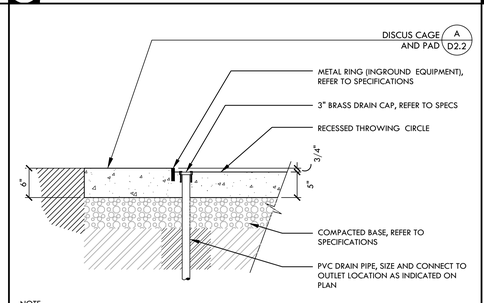
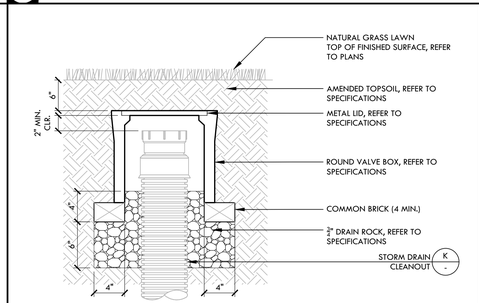
N DISCUS DRAINAGE NTS

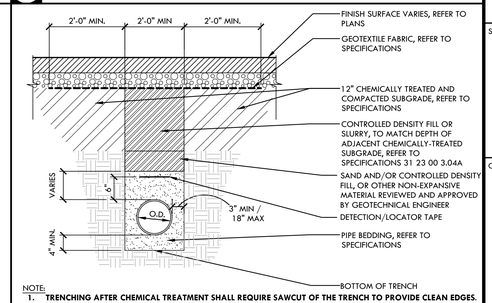



NOTE:
1. RECESSED THROWING CIRCLE SHALL BE SMOOTH TROWELLED WITH A LIGHT SAND BLASTED FINISHED CONCRETE AND BE SLOPED TO DRAIN TOWARDS GRATE AS SHOWN ON GRADING PLAN

I CLEANOUT IN SOFTSCAPE NTS



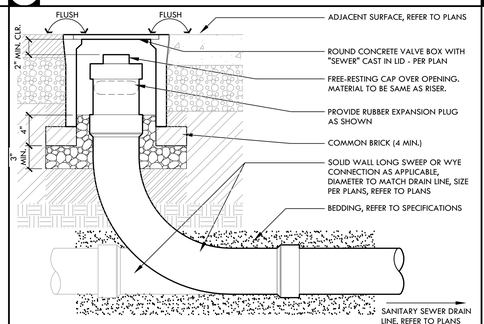

D TRENCH REPAIR FOR CHEMICAL-TREATMENT AREAS NTS



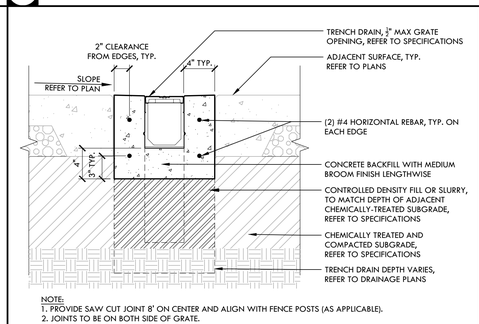

NOTE:
1. **TRENCHING AFTER CHEMICAL TREATMENT SHALL REQUIRE SAWCUT OF THE TRENCH TO PROVIDE CLEAN EDGES.**
2. CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS.
3. SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL MATERIAL.

Q

M DOWNSPOUT CONNECTION NTS

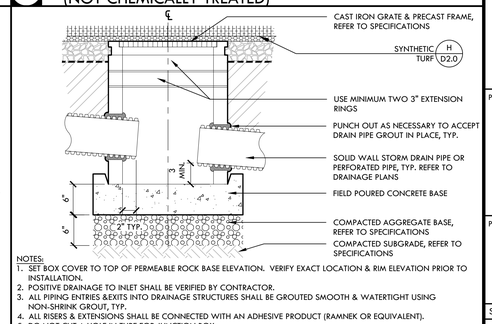



H CLEANOUT IN HARDSCAPE NTS



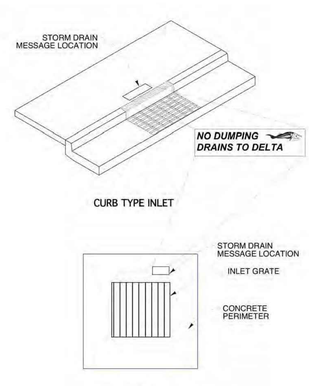

NOTES:
1. WHEN EXCAVATION FOR STRUCTURES IS PERFORMED WITHIN CHEMICALLY-TREATED AREAS, CONTRACTOR SHALL BACKFILL WITH NON-EXPANSIVE FILL OR CONTROLLED DENSITY FILL TO MATCH THE DEPTH OF ADJACENT CHEMICALLY-TREATED SUBGRADE, REFER TO SPECIFICATIONS.

C TRENCH BACKFILL- SOLID WALL STORM/SEWER (NOT CHEMICALLY TREATED) NTS




NOTES:
1. SET BOX COVER TO TOP OF PERMEABLE ROCK BASE ELEVATION. VERIFY EXACT LOCATION & RIM ELEVATION PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES & EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH & WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS & EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. DO NOT CUT A HOLE IN TURF FOR JUNCTION BOX.

P




NOTES:
1. DESIGN OF STORM DRAIN MESSAGE SHALL BE IN ACCORDANCE WITH DETAILS SHOWN ABOVE.
2. FOR NEW DEVELOPMENT, MESSAGE AND SYMBOL SHALL BE PERMANENTLY PLACED WITH THE USE OF ROMANITE. STAMPED INTO THE CONCRETE, OR OTHER METHODS APPROVED BY THE CITY ENGINEER.
3. FOR REDEVELOPMENT, MESSAGE AND SYMBOL SHALL BE PLACED WITH THE USE OF THERMOPLASTIC PAVEMENT MARKINGS.
4. PAINTING SHALL NOT BE ALLOWED FOR NEW DEVELOPMENT OR REDEVELOPMENT. PAINTING SHALL ONLY BE ALLOWED IN EXISTING AREAS FOR COMMUNITY AWARENESS ACTIVITIES. LETTERS SHALL BE 1-1/2 INCHES IN HIEGHT. OUTSIDE DIMENSION OF PUBLIC NOTICE BACKGROUND SHALL FIT BACK OF INLET OR BE PLACED IN SIDEWALK IMMEDIATELY BEHIND INLET AND SHALL BE 8 INCHES X 24 INCHES MINIMUM. LETTERING AND GRAPHIC SHALL BE BLACK WITH GRAY BACKGROUND UNLESS OTHERWISE APPROVED BY CITY ENGINEER.
5. DRIVEWAY INLETS SHALL HAVE NOTICE IN DRIVEWAY ADJACENT TO INLET.

P STORM DRAIN MESSAGE AND LOCATION NTS

L SANITARY SEWER CLEANOUT NTS




G TRENCH DRAIN NTS




NOTE:
1. PROVIDE SAW CUT JOINT 8' ON CENTER AND ALIGN WITH FENCE POSTS (AS APPLICABLE).
2. JOINTS TO BE ON BOTH SIDE OF GRATE.

B JUNCTION BOX - SYNTHETIC TURF NTS




NOTES:
1. SET CATCH BASIN/JUNCTION BOX RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION & RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES & EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH & WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS & EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

K STORM DRAIN CLEANOUT NTS




F PERFORATED SUBDRAIN NTS




A CATCH BASIN / JUNCTION BOX NTS




NOTE:
CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS. SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL FOR STORM DRAINS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
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REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4029
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
DRAINAGE AND UTILITY DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
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| DRAWN BY | CHECKED BY |
|---|---|
| VDI | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | AS NOTED |
| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| D1.0 | OF 122 |

DRAINAGE AND UTILITY DETAILS

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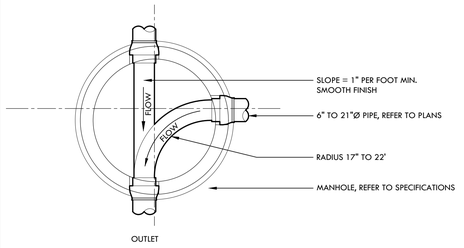
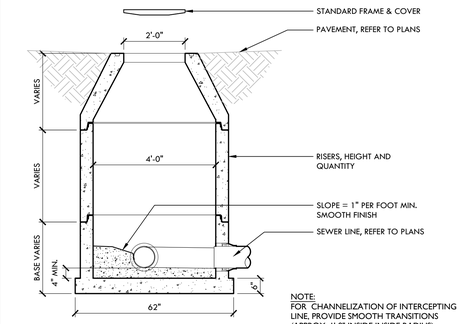
PLOT DATE: 03-30-20 PLOTTED BY: station40



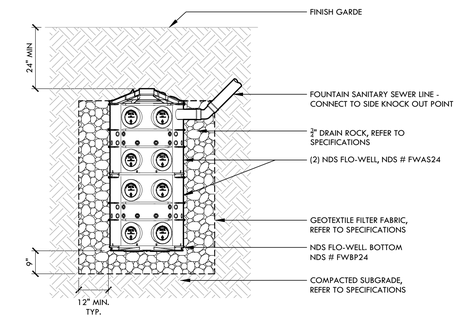

PLAN VIEW



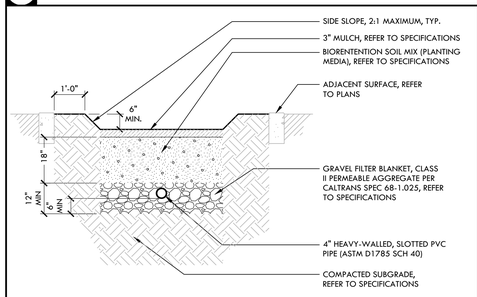

SECTION VIEW

NOTE:
FOR CHANNELIZATION OF INTERCEPTING LINE, PROVIDE SMOOTH TRANSITIONS (APPROX. 1'-8" INSIDE INSIDE RADIUS) TOWARDS DOWNSTREAM FLOW OF MAN.

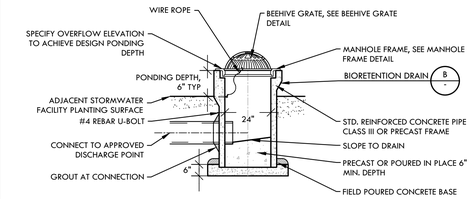
F SANITARY SEWER MANHOLE NTS




E DRYWELL - DRINKING FOUNTAIN NTS

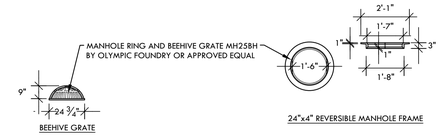



D BIORETENTION AREA NTS

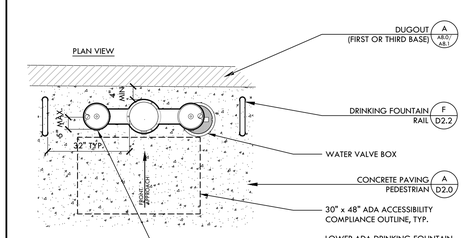


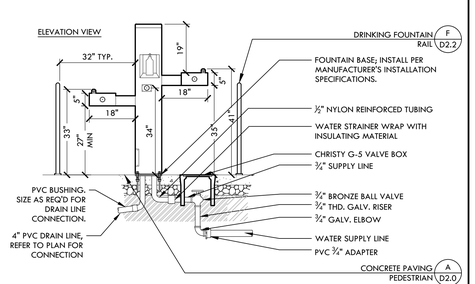

NOTES

1. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
2. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT)
3. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.



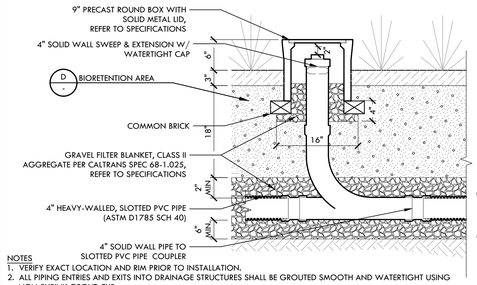

C OVERFLOW RISER WITH GRATE/ STANDPIPE NTS



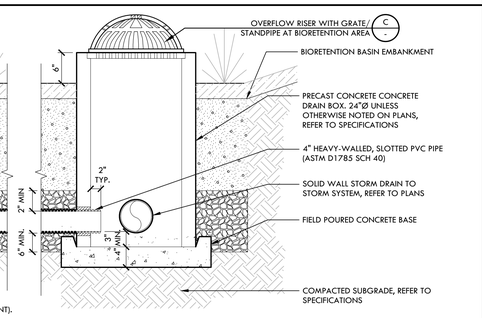




NOTES:
1. MEETS ADA REGULATIONS. ALL DRINKING FOUNTAINS TO BE INSTALLED CLEAR OF ACCESSIBLE PATH OF TRAVEL.
2. REFER TO SPECIFICATIONS.
3. FOUNTAIN SHALL HAVE SAME DIRECTION OF APPROACH FOR BOTTLE FILLER, HI & LO USERS.
4. DRINKING FOUNTAIN BUTTONS TO FACE TOWARD APPROACH.
5. CONTRACTOR TO COORDINATE INSTALLATION OF FOOTINGS FOR DRINKING FOUNTAIN AND ASSOCIATIVE RAILINGS WITH DUGOUT FOUNDATION.

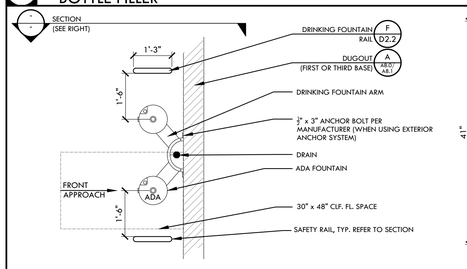
I DRINKING FOUNTAIN WITH BOTTLE FILLER NTS

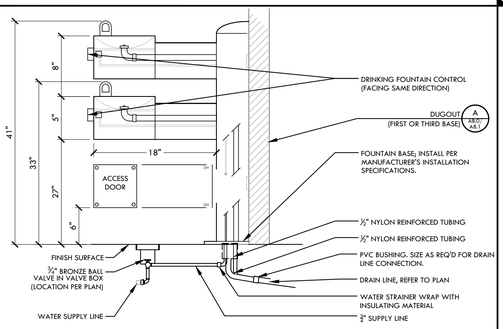



NOTES
1. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
3. CONCRETE BOX RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
4. ALL LIDS/GRATES SHALL BE FITTED WITH BOLT OR LOCK-DOWN MECHANISMS.



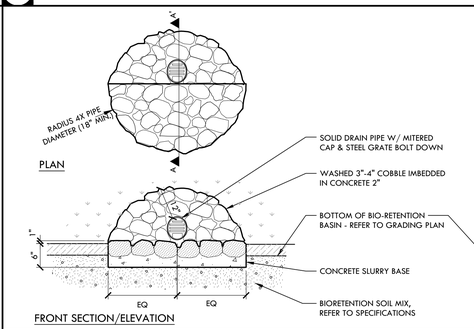

B BIORETENTION DRAIN NTS

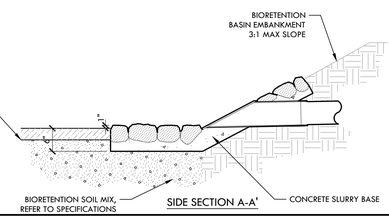



NOTES:
1. REFER TO SPECIFICATIONS.
2. FOUNTAIN SHALL HAVE SAME DIRECTION OF APPROACH FOR BOTH HI & LO USERS.
3. DRINKING FOUNTAIN BUTTONS TO FACE TOWARD APPROACH.
4. P-TRAP TO BE INSTALLED.
5. CONTRACTOR TO COORDINATE INSTALLATION OF FOOTINGS FOR DRINKING FOUNTAIN AND ASSOCIATIVE RAILINGS WITH DUGOUT FOUNDATION.

H DRINKING FOUNTAIN PLAN (IN DUGOUT) NTS




A COBBLE ENERGY DISSIPATOR NTS

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DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
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DATE: 04/10/2020

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Folsom, CA 95630
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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAUKNIGHT
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
DRAINAGE AND UTILITY DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
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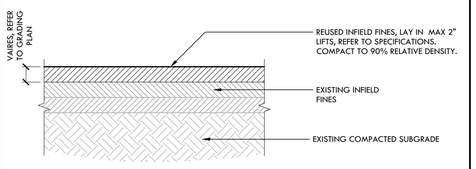
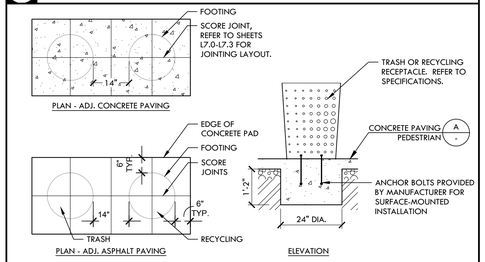
| VDI | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | AS NOTED |
| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| D1.1 | OF 122 |

DRAINAGE AND UTILITY DETAILS

DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D1.0-DRN- Athletics.dwg
PLOT DATE: 03-20-20 PLOTTED BY: station40

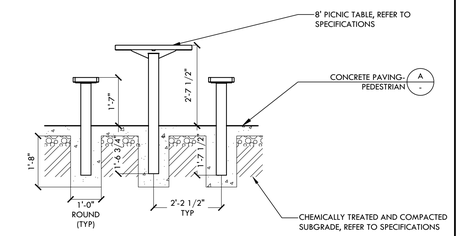



## O REUSED INFIELD FINES NTS



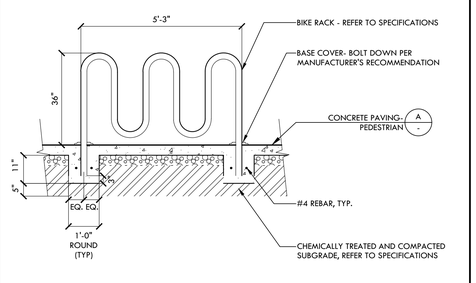

NOTES:
1. FOR ADDITIONAL INSTALLATION INFORMATION, REFER TO MANUFACTURER'S RECOMMENDATIONS.
2. TRASH RECEPTACLE IS TO BE PANTONE BLACK WITH PANTONE COLOR 124C (GOLD) LETTERING. RECYCLING RECEPTACLE IS TO BE PANTONE COLOR 124C (GOLD) WITH PANTONE BLACK LETTERING.
3. FOR INSTALLATION WHERE ADJACENT PAVING IS CONCRETE, IT IS INTENDED THAT THE PAVEMENT BE POURED FOR RECEPTACLES AT SAME TIME TO PROVIDE UNIFORM AND CONTINUOUS SURFACE WHERE APPLICABLE.

## N TRASH AND RECYCLING RECEPTACLE PAD NTS

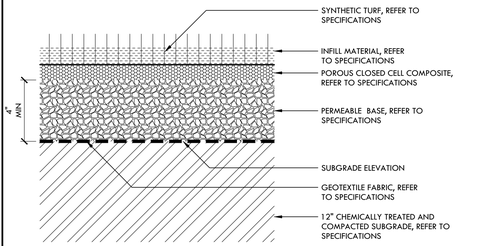



NOTES:
1. SHALL MEET 5% MIN. BUILT-IN WHEEL CHAIR SEATING AREA AS APART OF THIS.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

## M PICNIC TABLE NTS



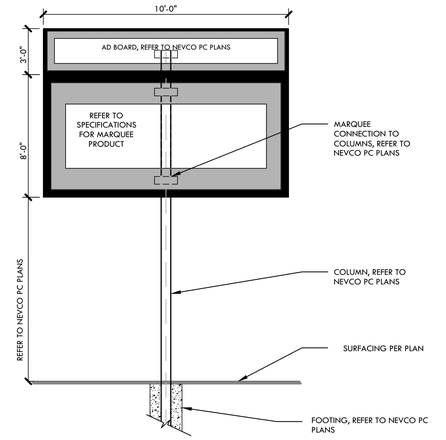

## L BIKE RACK NTS




SYNTHETIC TURF SECTION

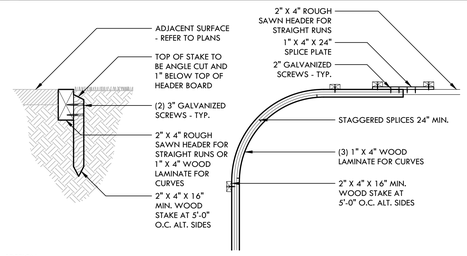
NOTE:
REFER TO SYNTHETIC TURF NOTES, THIS SHEET.

## H SYNTHETIC TURF WITH BROCK PAD NTS



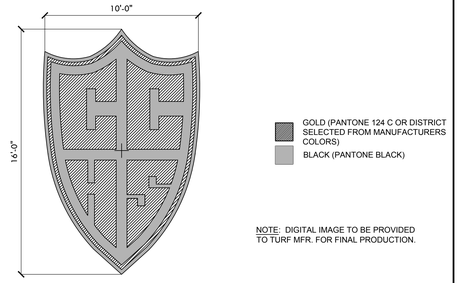

NOTE:
ETCH AND PAINT I-BEAMS WITH TWO COATS OF BLACK PAINT, REFER TO SPECIFICATIONS

## K MARQUEE NTS



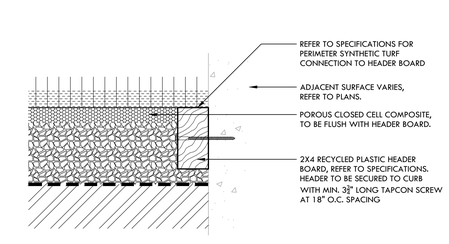

NOTE:
1. USE CURVED DETAIL WHEN RADIUS IS LESS THAN 30' & BOARD LENGTH IS LESS THAN 16'.
2. ALL WOOD TO BE ROUGH SAWN REDWOOD CONST. GRADE.
3. FINISH GRADE OF PLANTING AREA TO BE 1" BELOW TOP OF HEADER.
4. TAPER FINISH GRADE FROM 1" AT HEADER TO 3" WITHIN 4'-0" OF HEADER BOARD, FOR 3" MULCH LAYER.

## J REDWOOD HEADER BOARD NTS




NOTE: DIGITAL IMAGE TO BE PROVIDED TO TURF MFR. FOR FINAL PRODUCTION.

## I BASEBALL FIELD LOGO (SYNTHETIC TURF) NTS

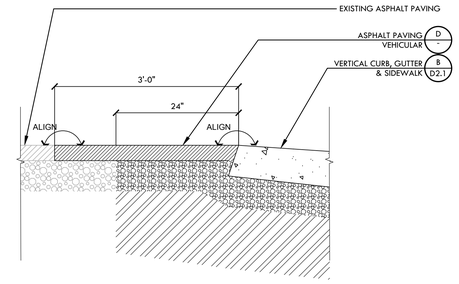



SYNTHETIC TURF CONNECTION

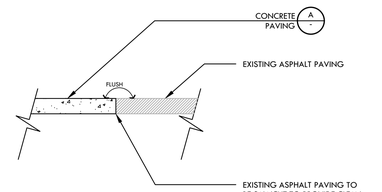
NOTES PERTAIN TO ALL DETAILS WITH SYNTHETIC TURF:

1. IDENTIFIED FINISH GRADES OF SYNTHETIC TURF SHALL BE THE TOP OF INFILL MATERIAL. INFILL MATERIAL SHALL BE ½" BELOW ADJACENT SURFACES UNLESS EDGE IS A VERTICAL CURB.
2. BASEBALL FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE WHITE LINES, UNLESS NOTED OTHERWISE.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NFHS (NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS) AND CLIF (CALIFORNIA INTERSCHOLASTIC FEDERATION) GUIDELINES.
4. NO MANUFACTURER, CONTRACTOR OR VENDOR LOGOS ARE TO BE INSTALLED UNLESS SPECIFIED.
5. NO CUT OUTS IN TURF SHALL BE MADE UNLESS OTHERWISE NOTED AND ESPECIALLY NO CUT OUTS IN THE FIELD OF PLAY. QUICK COUPLERS AND CLEANOUTS ARE THE ONLY UTILITIES TO BE CUT THROUGH TURF. QUICK COUPLERS ARE LOCATED ON THE PERIMETER AND OUT OF THE FIELD OF PLAY AREAS.

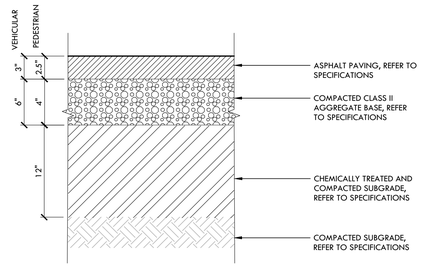
## G SYNTHETIC TURF NOTES NTS



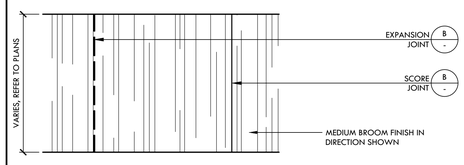

## F ASPHALT PATCH NTS




## E CONCRETE/ AC CONFORM NTS



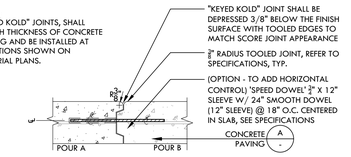

## D ASPHALT PAVING NTS



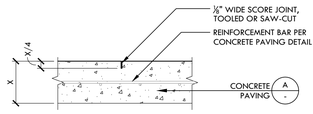

NOTE:
PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

## C CONCRETE PAVING FINISH NTS

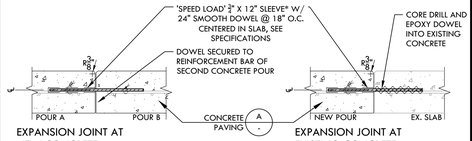
NOTE:
"KEYED KOLD" JOINTS, SHALL MATCH THICKNESS OF CONCRETE PAVING AND BE INSTALLED AT LOCATIONS SHOWN ON MATERIAL PLANS.




KEYED KOLD JOINT - VERTICAL AND LONGITUDINAL CONTROL
SECTION



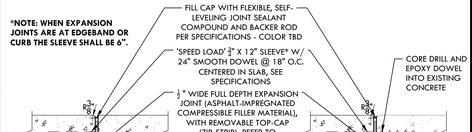

SCORE JOINT
SECTION




EXPANSION JOINT AT NEW CONCRETE
SECTION

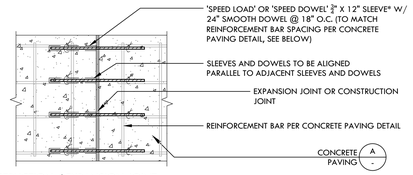
EXPANSION JOINT AT EXISTING CONCRETE
SECTION

*NOTE: WHEN EXPANSION JOINTS ARE AT EDGEBAND OR CURB THE SLEEVE SHALL BE 6".



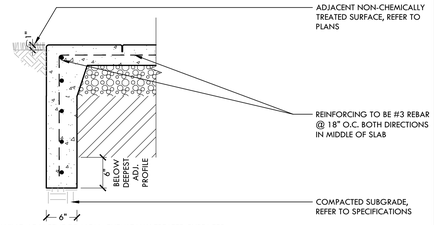

EXPANSION JOINT AT NEW CONCRETE
SECTION

EXPANSION JOINT AT EXISTING CONCRETE
SECTION

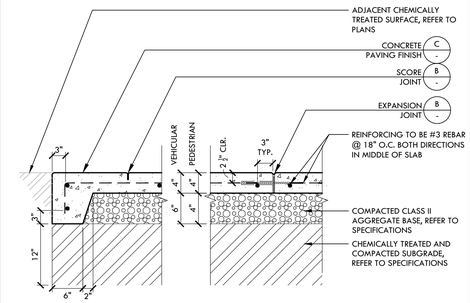



CONSTRUCTION / EXPANSION JOINT
PLAN

## B CONCRETE JOINTS NTS




NEW PAVING ADJACENT TO NON- CHEMICALLY TREATED SURFACES
(REFER TO CHEMICAL TREATMENT PLAN FOR LIMITS)




NEW PAVING ADJACENT TO CHEMICALLY TREATED SURFACES

NOTE:
1. PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.
2. DISCUS PAD CONCRETE (A/D2.2) SHALL BE VEHICULAR WITH IMPORTED FILL PER GEOTECHNICAL REPORT INLIEU OF CHECMICAL TREATMENT.

## A CONCRETE PAVING NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKEN
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - HARDSCAPE

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| | |

| NO. | REVISIONS | DATE |
|---|---|---|
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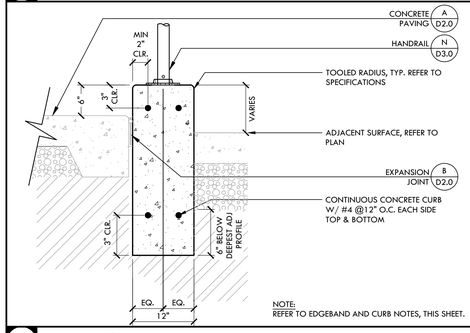
| DRAWN BY | CHECKED BY |
|---|---|
| VDI | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | |

PROJ. NO.
1910900-1211

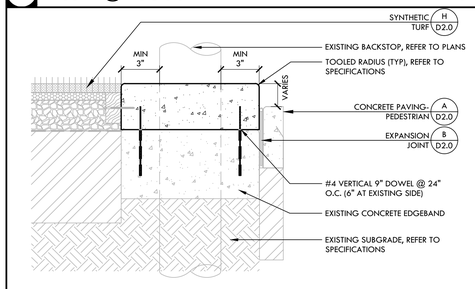
SHEET NO.
D2.0 OF 122

N



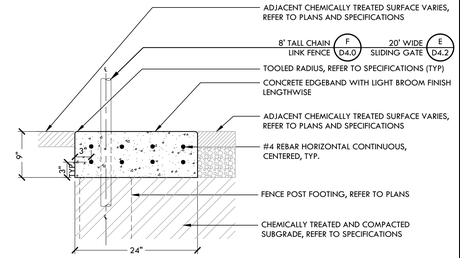

NOTE:
REFER TO EDGEBAND AND CURB NOTES, THIS SHEET.

**M** CURB @ DUGOUT RAMP NTS



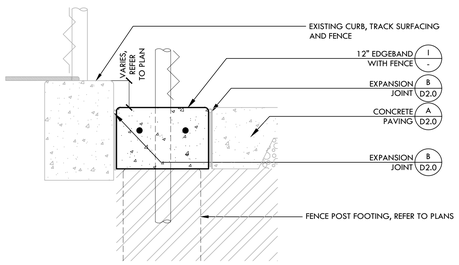

NOTE:
REFER TO EDGEBAND AND CURB NOTES, DETAIL A, THIS SHEET FOR ADDITIONAL INFORMATION

**L** EXISTING BACKSTOP OR FENCE AT SYNTHETIC TURF NTS




NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION

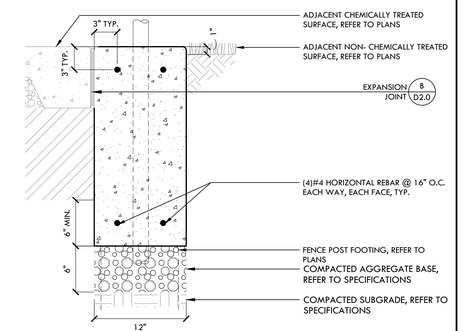
**K** EDGEBAND @ SLIDE GATE NTS



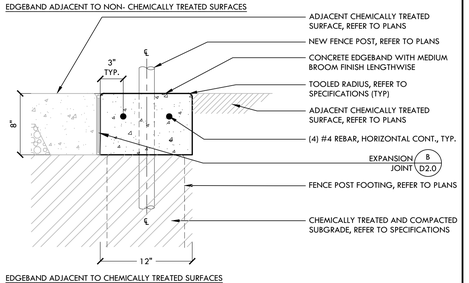

NOTE:
1. REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION

**J** EDGEBAND WITH FENCE @ EXISTING NTS

**I** 12" EDGEBAND WITH FENCE NTS



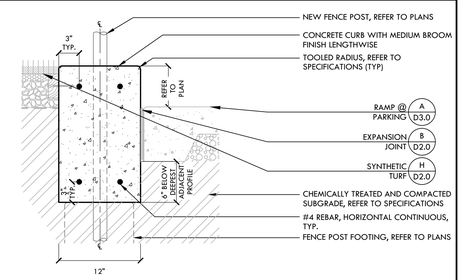

EDGEBAND ADJACENT TO NON- CHEMICALLY TREATED SURFACES




EDGEBAND ADJACENT TO CHEMICALLY TREATED SURFACES

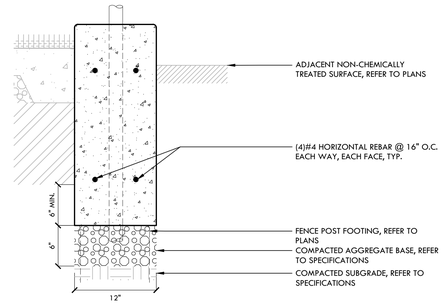
NOTE:
1. REFER TO EDGEBAND NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION
2. ON LANDSCAPE SIDE, ADJACENT SURFACE HEIGHT VARIES - 3" MAX ONLY. REFER TO GRADING PLAN.

**H** 6" EDGEBAND NTS

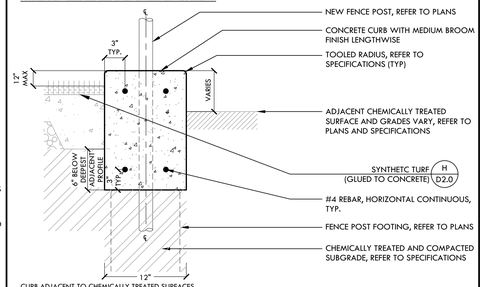



NOTE:
1. REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION
2. REFER TO GRADING PLAN.

**G** BULLPEN CURB 2 NTS



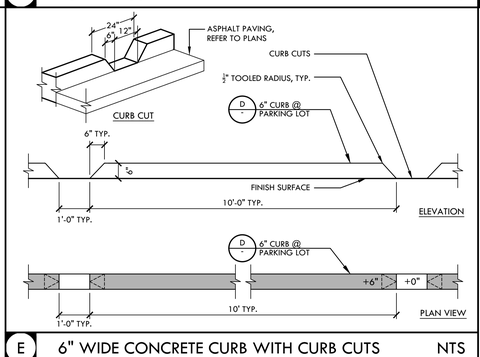

CURB ADJACENT TO NON- CHEMICALLY TREATED SURFACES



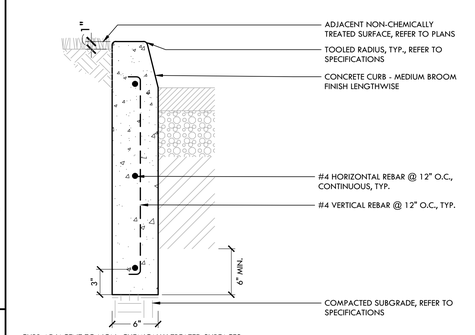

CURB ADJACENT TO CHEMICALLY TREATED SURFACES

NOTE:
1. REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION
2. ON LANDSCAPE SIDE, ADJACENT SURFACE HEIGHT VARIES - 3" MAX ONLY. REFER TO GRADING PLAN.

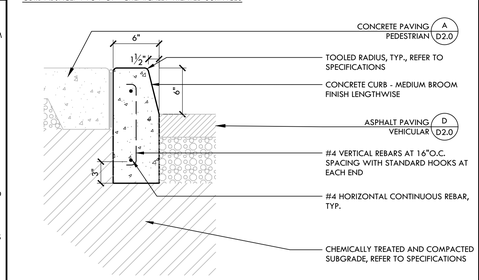
**F** BULLPEN CURB 1 NTS




**E** 6" WIDE CONCRETE CURB WITH CURB CUTS NTS




CURB ADJACENT TO NON- CHEMICALLY TREATED SURFACES




CURB ADJACENT TO CHEMICALLY TREATED SURFACES

NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION

**D** 6" CURB @ PARKING LOT NTS

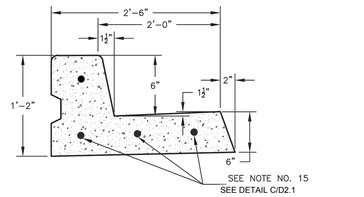
NOTES:

1. CURB, GUTTER AND SIDEWALK AND ALL P.C.C. FLATWORK SHALL HAVE A FINE HAIR LIGHT BROOM FINISH; CURB AND GUTTER PARALLEL TO THE FLOW LINE.
2. CONSTRUCT EXPANSION JOINTS 150'–0" ON CENTER MAXIMUM, AND AT RETURNS, LIGHT POLES, HYDRANTS, CATCH BASINS, BOTH SIDES OF DRIVEWAY. AND OTHER FIXED OBJECTS.
3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CURRENT CITY OF STOCKTON STANDARDS SPECIFICATIONS.
4. SEE DEFINITION SECTION OF STANDARD SPECIFICATIONS FOR DEFINITION OF SAND.
5. WEAKENED PLANE JOINTS AND SCORE MARKS AS SHOWN. SEE DWG R–50 FOR WEAKENED PLANE JOINT WIDTH AND DEPTH.
6. PLACE 5/8" X 24" LONG STEEL DOWELS THROUGH EVERY EXPANSION JOINT SPACED AT 1'–6" ON CENTER (MIN.) GREASED AND WRAPPED ON ONE SIDE, OFFSET 6" FROM CONCRETE EDGES, UNLESS OTHERWISE SHOWN OR SPECIFIED. MINIMUM THREE DOWELS IN 5' WIDE SIDEWALK.
7. SIDEWALK CONSTRUCTION SHALL CONFORM TO SECTION 73, STANDARD SPECIFICATIONS, CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), EXCEPT AS MODIFIED HEREIN.
8. SUBGRADE FOR SIDEWALK SHALL BE SCARIFIED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90% TO A DEPTH OF 6". PLACE 4" MINIMUM OF AGGREGATE SUBBASE CLASS II OR IV UNDER THE CONCRETE SECTIONS AND COMPACT TO A MINIMUM OF 90%.
9. SUBGRADE FOR CURB, GUTTER, AND DRIVEWAYS SHALL BE SCARIFIED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95% TO A DEPTH OF 6", BASE FOR CURB, GUTTER, AND DRIVEWAYS TO BE AB ONLY.
10. ALL RADII FOR ROUNDING EDGES SHALL BE 3/4" UNLESS NOTED.
11. CONCRETE SHALL BE PER SECTION 90. MINOR CONCRETE PER SPECIFICATION.
12. EXPANSION JOINTS AND WEAKENED PLANE JOINTS SHALL BE INSTALLED AS INDICATED ON THE PLANS OR STANDARD DETAILS.
13. DEPRESS A 2" HIGH LETTER 'W', 'S', OR 'I' FOR IRRIGATION SLEEVE LOCATION, 1/4" DEEP INTO THE TOP OF CURB TO INDENTIFY SERVICE LOCATIONS.
14. WATER SHALL BE USED TO ENSURE PROPER DRAINAGE OF GUTTERS AT BOTH THE FINAL WALKTHROUGH AND PRIOR TO THE EXPIRATION OF THE ONE–YEAR WARRANTY.
15. 3–5/8" X 24" LONG STEEL DOWELS MINIMUM THROUGH EVERY EXPANSION JOINT.
16. 2–5/8" X 24" LONG STEEL DOWELS MINIMUM THROUGH EVERY EXPANSION JOINT.
17. IN AN EXISTING STREET, WHENEVER THE CURB AND GUTTER ARE REMOVED, SAWCUT EXISTING STREET 1' OUT FROM LIP OF GUTTER MIN. & REPLACE WITH 8" OF ASPHALT CONCRETE, MIN., MATCHING EXISTING SECTION.

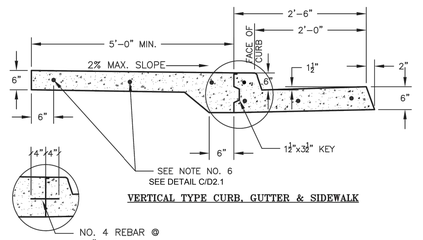
**NOTES APPLY TO CITY DETAILS ONLY (I.E. R-52)**

| CONCRETE CURB, GUTTER & SIDEWALKS CONSTRUCTION STANDARDS | REVISION NO. | APPROVED BY CITY ENGINEER: DATE 09/27/2016 |
|---|---|---|
| CITY OF STOCKTON DEPARTMENT OF PUBLIC WORKS | SCALE NONE | SUPERSEDES DWG. DATED 11/25/03 — DRAWING NO. R-55 |

**C** CONCRETE CURB, GUTTER & SIDEWALKS CONSTRUCTION STANDARDS NTS




VERTICAL TYPE CURB & GUTTER




ALTERNATE CONNECTION

VERTICAL TYPE CURB, GUTTER & SIDEWALK

NOTES:

1. SEE DETAIL C/D2.1 FOR CURB, GUTTER, AND SIDEWALK CONSTRUCTION NOTES.
2. NEITHER KEY NOR CONNECTING REBAR IS NECESSARY IF CURB & GUTTER ARE POURED MONOLITHICALY WITH SIDEWALK.
3. ALL CONCRETE & ASPHALT PAVING SHALL RECEIVE CHEMICAL TREATMENT PER SPECIFICATIONS & AS SHOWN ON TREATMENT PLAN

| VERTICAL CURB, GUTTER & SIDEWALK | NO. 2 | DATE 09/27/2016 |
|---|---|---|
| CITY OF STOCKTON DEPARTMENT OF PUBLIC WORKS | SCALE NONE | SUPERSEDES DWG. DATED 11/25/03 — DRAWING NO. R-52 |

**B** VERTICAL CURB, GUTTER & SIDEWALK NTS

NOTES PERTAIN TO ALL EDGEBAND AND CURB DETAILS:

1. FOR EDGEBANDS AND CURBS WITH FENCING, INSTALL EXPANSION JOINTS AT ALL CORNERS, BEGINNINGS, AND ENDINGS OF RADII, AND AT ALL FENCE POSTS. INSTALL SCORE JOINTS AT 5' O.C. AND OR EVENLY SPACED AND CENTERED BETWEEN POSTS.
2. FOR EDGEBAND AND CURBS WITHOUT FENCING, INSTALL SCORE JOINTS AT 10' O.C. SPACING AND FIBER EXPANSION JOINTS EVERY 20' ON STRAIGHT RUNS. ON CURVED RUNS, FIBER EXPANSION JOINTS SHALL BE SPACED 10' O.C., WITH ALTERNATING SCORE JOINTS AT 5' O.C. SPACING.
3. ALL EXPANSION JOINTS SHALL BE SEALED, PER SPECIFICATIONS.

NOTES PERTAIN TO ALL CURB DETAILS:

1. PROVIDE EXPANSION JOINTS AT 16' O.C. SPACING, CENTERED BETWEEN FENCE POSTS.
2. PROVIDE EXPANSION JOINTS AT EACH LOCATION WHERE AN ELEVATION STEP OCCURS BETWEEN CHANGING CURB/EDGEBAND TYPES.
3. AT EXPANSION JOINTS, PROVIDE A 24" LONG #4 DOWEL AT EACH CURB HORIZONTAL REBAR, CENTERED ON THE JOINT., AS PER DETAIL.
4. EXPANSION JOINTS SHALL BE INSTALLED WITH A ¾" CHAMFER BUILT INTO THE FORM WORK, IN ADDITION TO THE FIBER EXPANSION JOINT MATERIAL.
5. PROVIDE A CONTROL JOINT AT EACH FENCE POST. THE VERTICAL JOINT SHALL BE A ¾" CHAMFER BUILT INTO THE FORM WORK. THE HORIZONTAL JOINT, ALONG THE TOP OF CURB, SHALL BE A TOOLED SCORE JOINT, ALIGNED WITH AND MATCHING THE VERTICAL CHAMFER JOINT.
6. ALL EXPANSION JOINTS SHALL BE SEALED PER SPECIFICATION.
7. NO SCORE JOINTS ARE REQUIRED ON TALL CURBS, EXCEPT AS INDICATED AT EACH FENCE POST IN ITEM #5 ABOVE.

FINISHES
EDGEBANDS AND CURBS: MEDIUM BROOM
WALL AND CURBS: MEDIUM SAND BLAST - TOP AND SIDES

**A** EDGEBAND AND CURB NOTES NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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tel: 916.415.6554
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www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4089
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - HARDSCAPE

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |

| DRAWN BY | CHECKED BY |
|---|---|
| VDI | CS |
| DATE ISSUED 03/27/20 | SCALE |

PROJ. NO. 1910900-1211

SHEET NO. D2.1 OF 122



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D2.0-Hardscape- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

M

L

K

J

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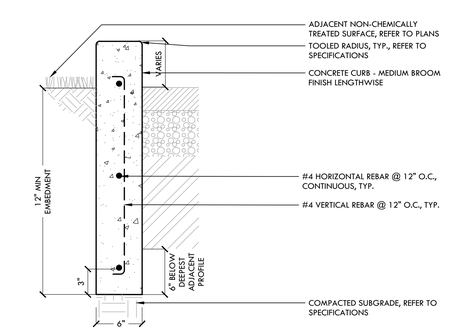
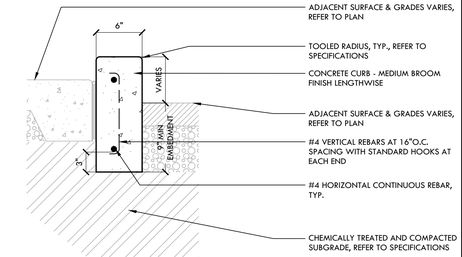


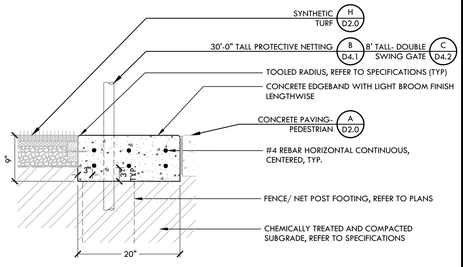

CURB ADJACENT TO NON- CHEMICALLY TREATED SURFACES




CURB ADJACENT TO CHEMICALLY TREATED SURFACES

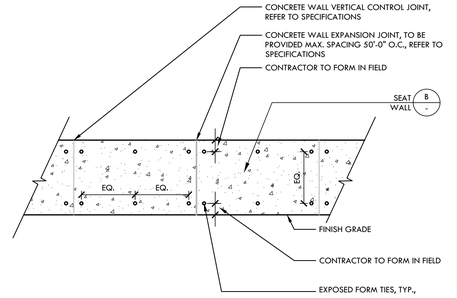
NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION

E 6" CURB NTS

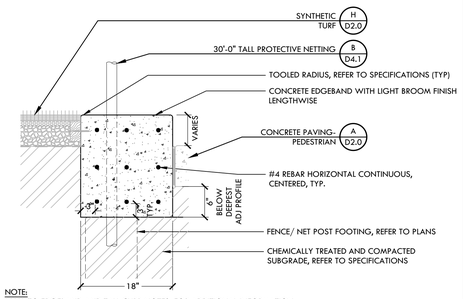



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, FOR ADDITIONAL INFORMATION

D 20" EDGEBAND WITH FENCE NTS

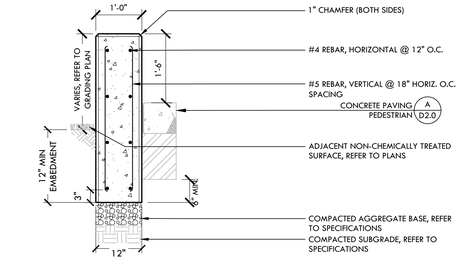



C CONCRETE WALL FORM TIES NTS

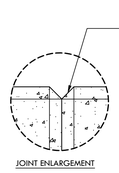



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, FOR ADDITIONAL INFORMATION

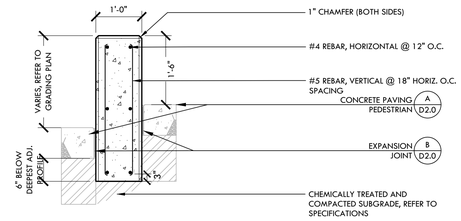
G 18" CURB WITH FENCE NTS



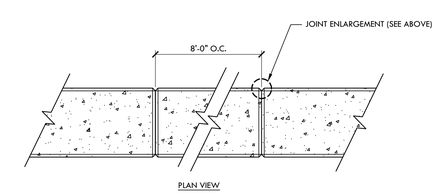

SEAT WALL ADJACENT TO NON- CHEMICALLY TREATED SURFACES




JOINT ENLARGEMENT



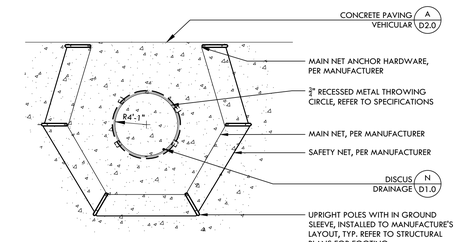

SEAT WALL ADJACENT TO CHEMICALLY TREATED SURFACES



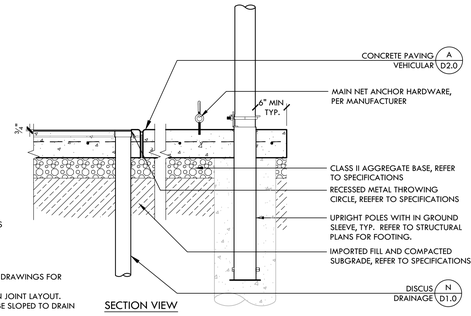

PLAN VIEW

NOTE:
SMOOTH ARCHITECTURAL FINISH ON ALL EXPOSED FACES OF WALL.

B SEAT WALL NTS




PLAN VIEW



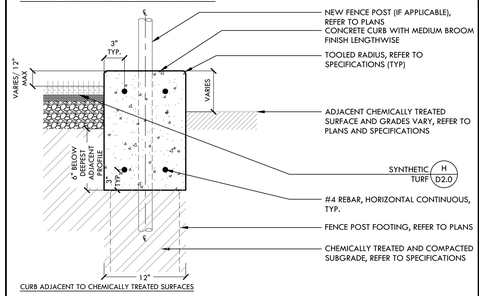

SECTION VIEW

NOTE:
1. ALL DRAWINGS DEPICTING IN-GROUND EQUIPMENT ARE FOR BIDDING ONLY. REFER TO SPECIFICATIONS AND SHOP DRAWINGS FOR INSTALLATION DIMENSIONS AND INSTRUCTIONS.
2. EXPANSION JOINT AROUND OUTSIDE PERIMETER OF STEEL CIRCLE. REFER TO PLANS FOR SCORE LINE AND EXPANSION JOINT LAYOUT.
3. RECESSED THROWING CIRCLE SHALL BE SMOOTH TOWELED WITH A LIGHT SAND BLASTED FINISHED CONCRETE AND BE SLOPED TO DRAIN TOWARDS GRATE AS SHOWN ON GRADING PLAN

A DISCUS CAGE AND PAD NTS




CURB ADJACENT TO NON- CHEMICALLY TREATED SURFACES




CURB ADJACENT TO CHEMICALLY TREATED SURFACES

NOTE:
1. REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION
2. ON LANDSCAPE SIDE, ADJACENT SURFACE HEIGHT VARIES - 3" MAX ONLY. REFER TO GRADING PLAN.

F 12" CURB WITH FENCE NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BADKERT
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - HARDSCAPE

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
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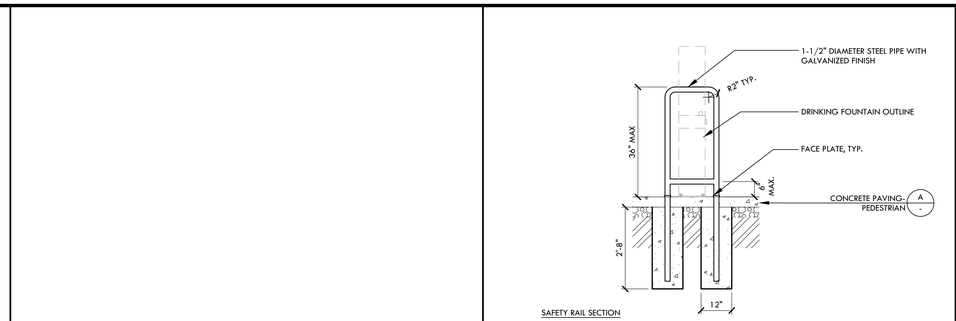
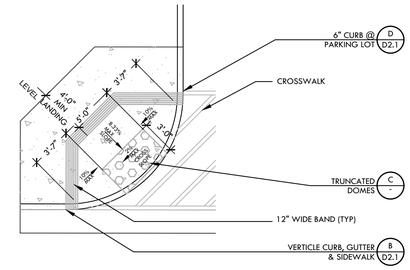
| DRAWN BY | CHECKED BY |
|---|---|
| VDI | CS |
| DATE ISSUED: 03/27/20 | SCALE: |

PROJ. NO. 1910900-1211

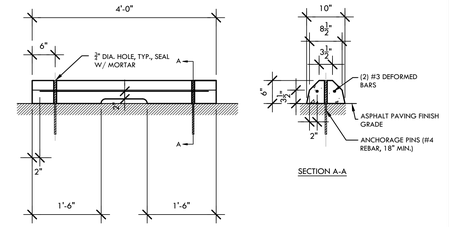
SHEET NO. D2.2 OF 122




SAFETY RAIL SECTION



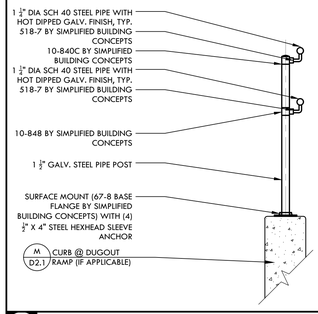

NOTE:
SHOP DRAWINGS REQUIRED FOR REVIEW AND ACCEPTANCE BY DISTRICT REPRESENTATIVE PRIOR TO FABRICATION.



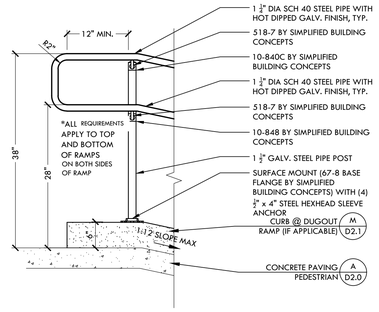

SECTION A-A

## P

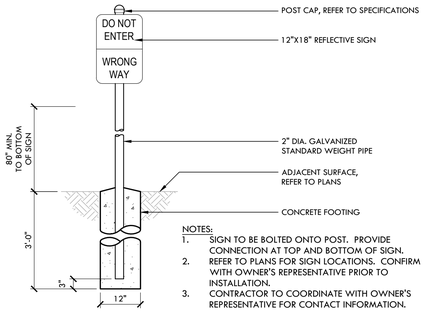
## O DRINKING FOUNTAIN RAIL




NOTES:
1. THIS DRAWING IS FOR DESIGN INTENT ONLY. SUBMIT SHOP DRAWING TO SHOW MATERIAL, WELDS AND FASTENERS.
2. ALL PIPE TO BE SCHEDULE 40 WITH ¼" THICKNESS, & SHALL BE GALVANIZED FINISH.
3. ALL JOINTS SHALL BE FILLET WELD; GRIND SMOOTH JOINTS; TREAT ALL FINISHED WELDS WITH GALVANIZING.
4. ALL RAILINGS TO BE SHOP FABRICATED FOR FIELD INSTALLATION.
5. PROVIDE 1½" CLEARANCE FROM OUTSIDE OF HANDRAIL TO ADJACENT TO SURFACE
6. ANTI-SKATE DEVICE; ADDITIONAL OVERLAY OF LARGER PIPE TO BE WELDED ONTO HANDRAILS EVERY 2'. OVERLAY SHALL FIT HANDRAILS AND BE WELDED ON TWO SIDES. PIPE OVERLAY TO FIT HALFWAY AROUND THE HAND RAIL.

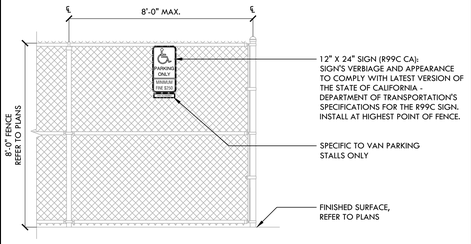



## I RAMP @ CROSSWALK NTS




NOTES:
1. SIGN TO BE BOLTED ONTO POST. PROVIDE CONNECTION AT TOP AND BOTTOM OF SIGN.
2. REFER TO PLANS FOR SIGN LOCATIONS. CONFIRM WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE FOR CONTACT INFORMATION.

## E WHEEL STOP NTS

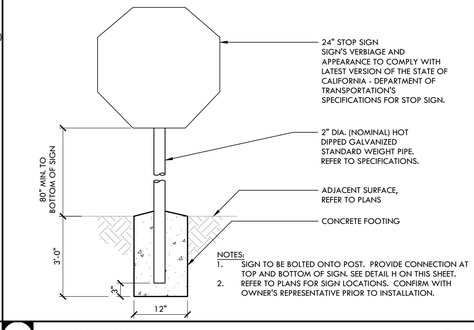



NOTES:
1. SIGN TO BE INSTALLED CENTER OF ADA PARKING STALL.
2. USE MINIMUM 9 GAUGE METAL RINGS FOR FASTENING TO FENCE.
3. REFER TO PLANS & DETAIL A THIS SHEET FOR SIGN LOCATIONS. CONFIRM WITH DISTRICT'S REPRESENTATIVE PRIOR TO INSTALLATION.

## N HANDRAIL NTS

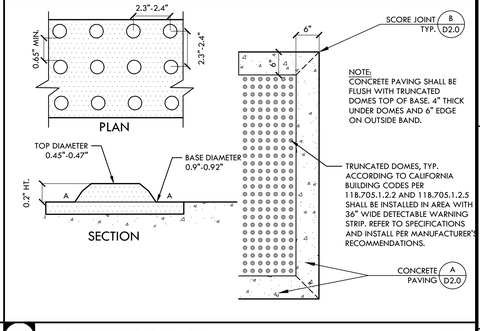



## H DO NOT ENTER SIGN NTS




NOTES:
1. SIGN TO BE BOLTED ONTO POST. PROVIDE CONNECTION AT TOP AND BOTTOM OF SIGN. SEE DETAIL H ON THIS SHEET.
2. REFER TO PLANS FOR SIGN LOCATIONS. CONFIRM WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

## D ADA PARKING SIGN ON FENCE NTS

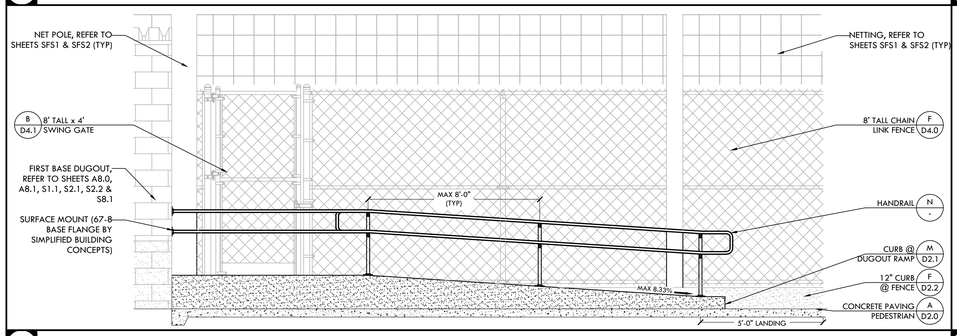



NOTE:
CONCRETE PAVING SHALL BE FLUSH WITH TRUNCATED DOMES TOP OF BASE. 4" THICK UNDER DOMES AND 6" EDGE ON OUTSIDE BAND.

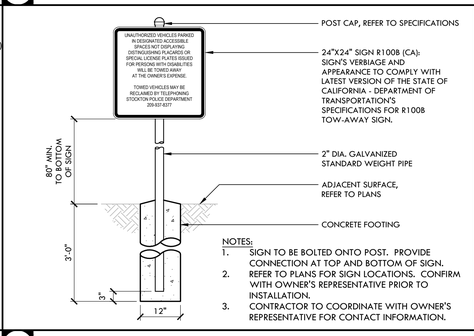
## M DUGOUT RAMP SECTION 3 NTS

## G STOP SIGN NTS

## C TRUNCATED DOMES NTS

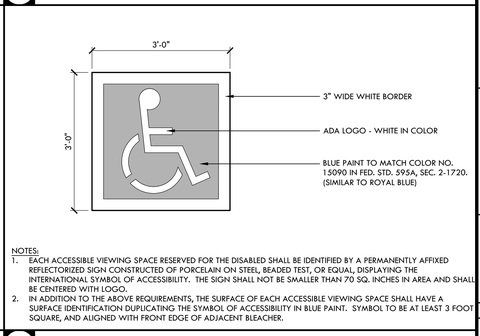



## L DUGOUT RAMP SECTION 2 NTS



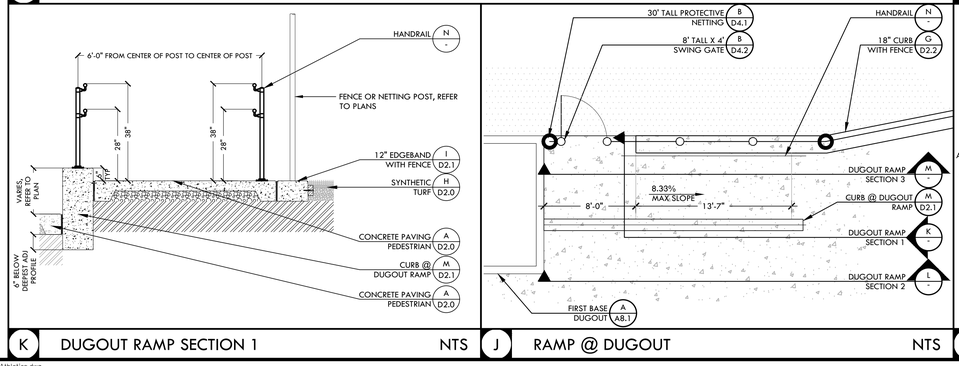

NOTES:
1. SIGN TO BE BOLTED ONTO POST. PROVIDE CONNECTION AT TOP AND BOTTOM OF SIGN.
2. REFER TO PLANS FOR SIGN LOCATIONS. CONFIRM WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE FOR CONTACT INFORMATION.

## F PARKING TOW AWAY SIGN NTS




NOTES:
1. EACH ACCESSIBLE VIEWING SPACE RESERVED FOR THE DISABLED SHALL BE IDENTIFIED BY A PERMANENTLY AFFIXED REFLECTORIZED SIGN CONSTRUCTED OF PORCELAIN ON STEEL, BEADED TEST, OR EQUAL, DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SIGN SHALL NOT BE SMALLER THAN 70 SQ. INCHES IN AREA AND SHALL BE CENTERED WITH LOGO.
2. IN ADDITION TO THE ABOVE REQUIREMENTS, THE SURFACE OF EACH ACCESSIBLE VIEWING SPACE SHALL HAVE A SURFACE IDENTIFICATION DUPLICATING THE SYMBOL OF ACCESSIBILITY IN BLUE PAINT. SYMBOL TO BE AT LEAST 3 FOOT SQUARE, AND ALIGNED WITH FRONT EDGE OF ADJACENT BLEACHER.

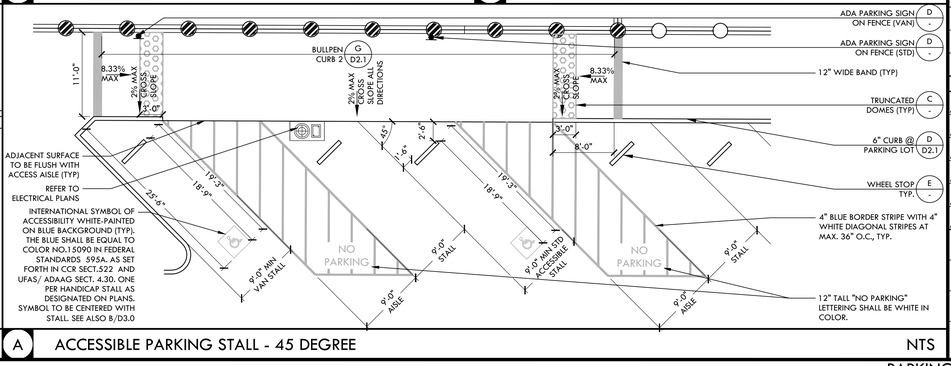
## B ADA LOGO NTS




## K DUGOUT RAMP SECTION 1 NTS




## J RAMP @ DUGOUT NTS




## A ACCESSIBLE PARKING STALL - 45 DEGREE NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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1843 Iron Point Rd #140
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tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
PARKING AND ACCESSIBILITY DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
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| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

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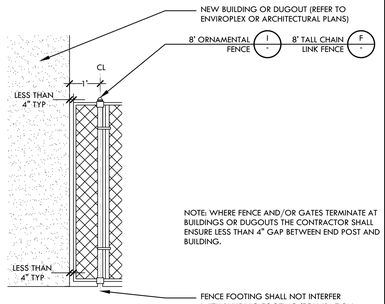
DRAWN BY: VDI
CHECKED BY: CS
DATE ISSUED: 03/27/20
SCALE: AS NOTED
PROJ. NO.: 1910900-1211
SHEET NO.: D3.0 OF 122

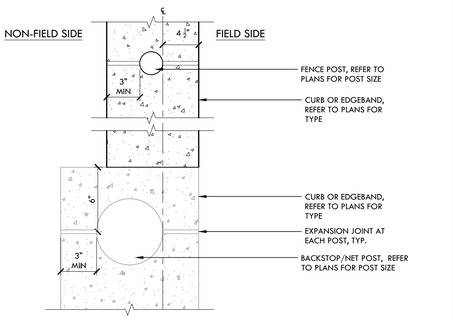
P

M

H FENCE CONNECTION AT BUILDING

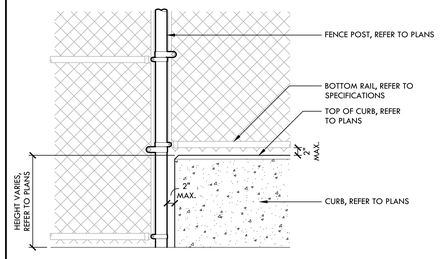



D FENCE POST ALIGNMENT - PLAN VIEW NTS

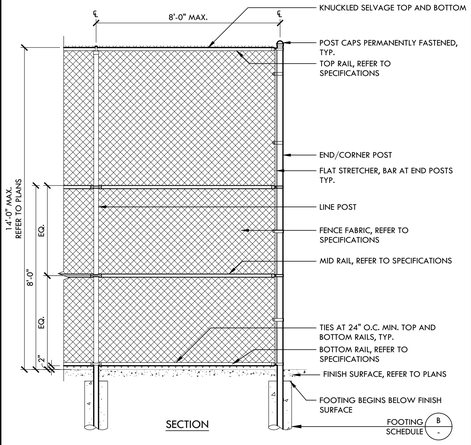



O

L



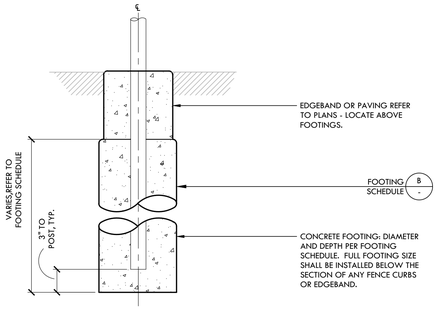

NOTE:
1. SEE GENERAL GATE AND FENCE NOTES SHEET D4.0, DETAIL A.




SECTION

NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

C FENCE FOOTING NTS




FENCE POST & FOOTING SCHEDULE

| DESCRIPTION | HEIGHT | LINE POST (STD. GALV. PIPE) | CORNER/END POST (STD. GALV. PIPE) | FOOTING DIMENSIONS |
|---|---|---|---|---|
| CHAIN LINK FENCE | 42" | 1 ⅝" DIA. STD | 2" DIA. STD | 12" DIA. X 3' DEEP |
| CHAIN LINK FENCE | 8' | 2 ½" DIA. STD | 3" DIA. STD | 16" DIA. X 4' DEEP |
| CHAIN LINK FENCE WITH WINDSCREEN | 8' | 4" DIA. STD | 4" DIA. STD | 16" DIA. X 7' DEEP |
| CHAIN LINK FENCE (AT BATTING CAGE) | 14' | REFER TO STRUCTURAL | REFER TO STRUCTURAL | REFER TO STRUCTURAL |
| NETTING (NETTING OVER 8' CHAIN LINK FENCE OR DUGOUT) | 30' | REFER TO SFS1 & SFS2 | REFER TO SFS1 & SFS2 | REFER TO SFS1 & SFS2 |
| ORNAMENTAL FENCE | 8' | TS 4 X 4 X 3/16 | TS 5 X 5 X 3/16 | 16" DIA. X 4.5' DEEP |

GATE POST FOOTING SCHEDULE

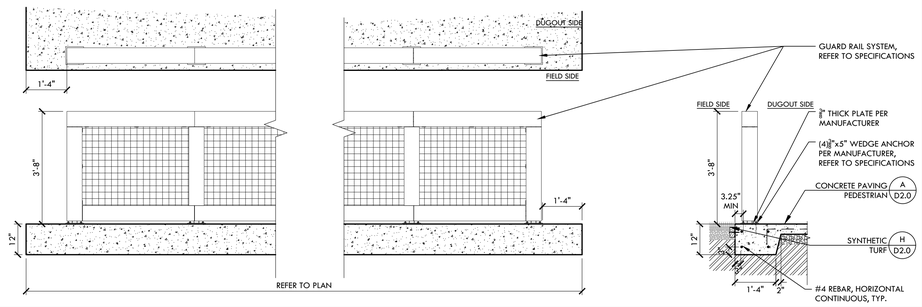
| DESCRIPTION | SIZE (H x L) | GATE POST (STD. GALV. PIPE) | FOOTING DIMENSIONS |
|---|---|---|---|
| CHAIN LINK SWING GATE | 42" X 4' | 2" DIA. STD | 12" DIA. X 3' DEEP |
| CHAIN LINK SWING GATE | 8' X 4' | 3" DIA. STD | 16" DIA. X 4' DEEP |
| CHAIN LINK SWING GATE - TRANSOM (AT BATTING CAGE) | 8' X 4' | REFER TO STRUCTURAL | REFER TO STRUCTURAL |
| CHAIN LINK DOUBLE SWING GATE | 8' X 8' | 3" DIA. STD | 16" DIA. X 4' DEEP |
| CHAIN LINK DOUBLE SWING GATE | 8' X 10' | 3" DIA. STD | 16" DIA. X 4' DEEP |
| CHAIN LINK DOUBLE SWING GATE | 8' X 4'/6' | 3" DIA. STD | 16" DIA. X 4' DEEP |
| CHAIN LINK SLIDE GATE | 8' X 20' | 4" DIA. STD | 16" DIA. X 5.5' DEEP |
| ACCESS GATE | 4' X 16'-4" | REFER TO DETAIL F/ D4.1 | REFER TO DETAIL F/D4.1 |
| ORNAMENTAL SWING GATE - ACCESSIBLE | 8' X 4' | TS 4 X 4 X 3/16 | 16" DIA. X 4.5' DEEP |
| ORNAMENTAL DOUBLE SWING GATE | 8' X 8' | TS 4 X 4 X 3/16 | 16" DIA. X 4.5' DEEP |

NOTES:
1. REFER TO PLANS & DETAILS FOR POST LOCATIONS AND TOP OF POST FOOTING.
2. REFER TO FENCE FOOTING DETAIL, THIS SHEET
3. REFER TO FENCE POST ALIGNMENT DETAIL, THIS SHEET
4. THE PIPE SIZES INDICATED ARE FOR NPS, REFER TO SPECIFICATIONS.
5. POSTS LISTED FOR GATES SHOULD BE END POST SIZES MINIMUM, TYP.

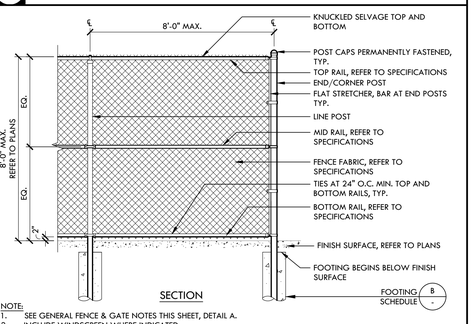
N

K FENCE AT CURB STEP NTS

G 14' TALL CHAIN LINK FENCE NTS




J GUARD RAIL SYSTEM NTS




SECTION

NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.
2. INCLUDE WINDSCREEN WHERE INDICATED.

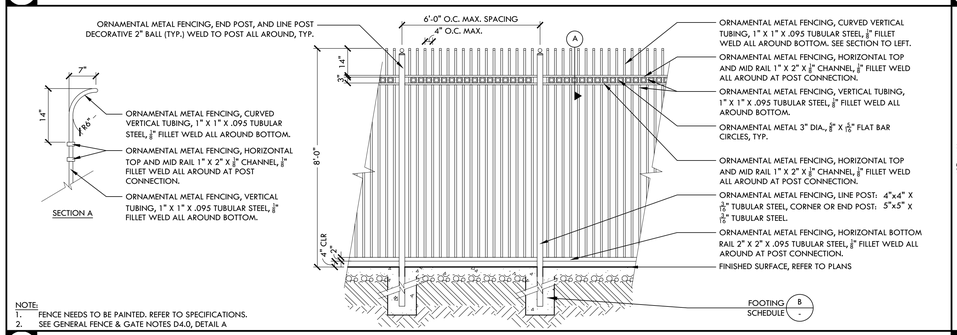
F 8' TALL CHAIN LINK FENCE NTS

B FOOTING SCHEDULE NTS

NOTES PERTAIN TO ALL GATE AND FENCE DETAILS:

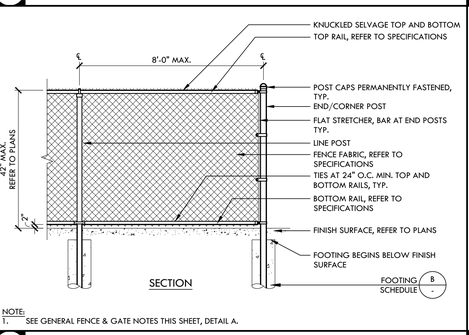
1. PLACE FENCE FABRIC ON FIELD SIDE. FENCE FABRIC ON PERIMETER FENCING IS TO BE ON FIELD SIDE.
2. BOTTOM RAIL TO BE 2" FROM FINISH GRADE, FENCE FABRIC BOTTOM EDGE TO BE 1" FROM FINISH GRADE.
3. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. GATES IN PATH OF TRAVEL MUST MEET ENTRY AND EXIT DOOR REQUIREMENTS.
5. FOR PEDESTRIAN GATE , PROVIDE LOCKING DEVICE TO SECURE GATE IN OPEN POSITION.
6. ALL PEDESTRIAN SWING GATES SHALL RECEIVE A GATE LOCK. SEE D4.1. PEDESTRIAN GATES ARE NOTED BY HAVING A KICK PLATE ATTACHMENT.
7. REFER TO PLANS FOR EDGEBAND TYPE UNLESS OTHERWISE NOTED.
8. REFER TO DETAIL FOR FENCING WITH CURBS AND CHANGE IN ELEVATIONS.
9. FOR GATES WITH DROP BAR, PROVIDE 8" DEEP FOOTING WITH SCH. 40 STEEL PIPE SLEEVE. CANE STOP TO GO DOWN 4" INTO CONCRETE IN CLOSED POSITION AND OPEN POSITION.
10. TACK WELD HINGES TO POSTS AT GATES
11. DOUBLE SWING GATES THAT ARE INLINE WITH FENCING, GATE POSTS SHALL BE OFFSET FROM THE FENCE TO ALLOW SWING GATES TO OPEN A FULL 180° BACK AGAINST THE FENCE PER PLAN LAYOUT.
12. THE PIPE SIZES INDICATED ARE NPS FOR : STANDARD GALV. PIPE SCHEDULE 40.

I 8' ORNAMENTAL FENCE NTS




NOTE:
1. FENCE NEEDS TO BE PAINTED. REFER TO SPECIFICATIONS.
2. SEE GENERAL FENCE & GATE NOTES D4.0, DETAIL A

E 42" TALL CHAIN LINK FENCE NTS




SECTION

NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

A GATE AND FENCE NOTES NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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VERDE DESIGN
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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAUKOL
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
FENCING DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

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| DRAWN BY | CHECKED BY |
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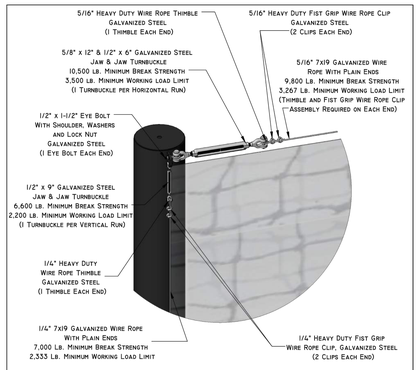
| VDI | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | AS NOTED |

PROJ. NO. 1910900-1211

SHEET NO. D4.0 OF 122

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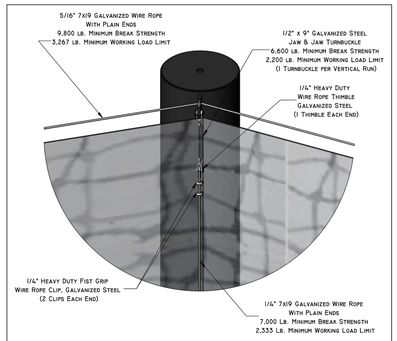
POLE TO POLE TENSION BACKSTOP NETTING SYSTEM
DETAIL A

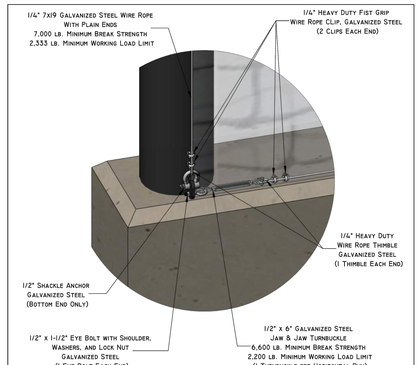
NOT TO SCALE — SPORTSFIELD SPECIALTIES INC 02202019




PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPORTSFIELD SPECIALTIES INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPORTSFIELD SPECIALTIES INC. IS PROHIBITED.

POLE TO POLE TENSION BACKSTOP NETTING SYSTEM
DETAIL B

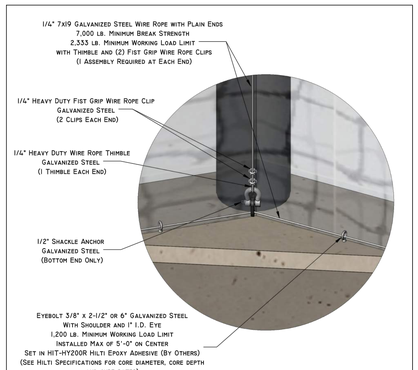
NOT TO SCALE — SPORTSFIELD SPECIALTIES INC 02202019




PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPORTSFIELD SPECIALTIES INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPORTSFIELD SPECIALTIES INC. IS PROHIBITED.

POLE TO POLE TENSION BACKSTOP NETTING SYSTEM
DETAIL C

NOT TO SCALE — SPORTSFIELD SPECIALTIES INC 02202019

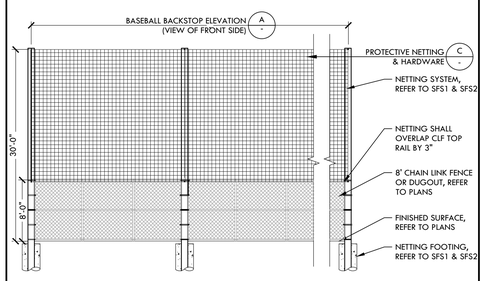



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPORTSFIELD SPECIALTIES INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPORTSFIELD SPECIALTIES INC. IS PROHIBITED.

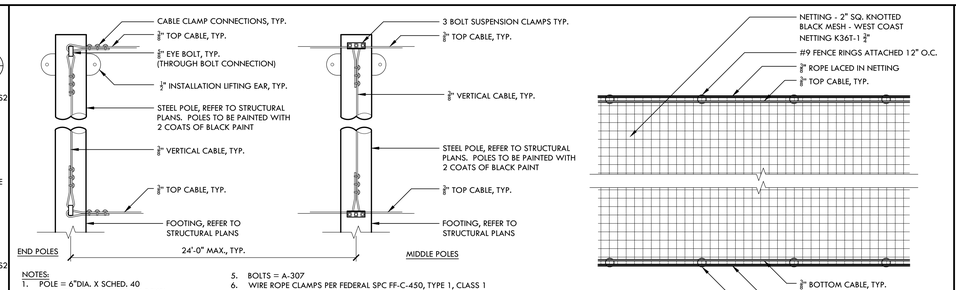
POLE TO POLE TENSION BACKSTOP NETTING SYSTEM
DETAIL D

NOT TO SCALE — SPORTSFIELD SPECIALTIES INC 02202019

## E NETTING SYSTEM DETAIL — NTS




## B 30'-0" TALL PROTECTIVE NETTING — NTS

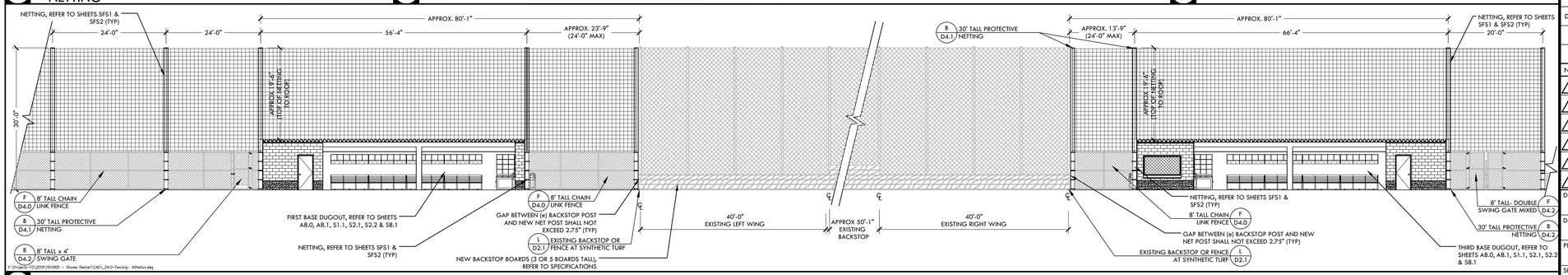



NOTES:
1. POLE = 6"DIA. X SCHED. 40 MIN YIELD STRENGTH TO BE 35KSI
2. MAX SPACING = 24' O.C.
3. STRUCTURAL STEEL = ASTM A-36
4. STEEL PIPE /TUBE = ASTM A-53 GRADE B
5. BOLTS = A-307
6. WIRE ROPE CLAMPS PER FEDERAL SPC FF-C-450, TYPE 1, CLASS 1
7. CABLE = ASTM A-603 6X19 WIRE ROPE
8. NETTING FABRICATOR PER SPECIFICATIONS

## C PROTECTIVE NETTING & HARDWARE — NTS

## D

NOT USED




## A BASEBALL BACKSTOP ELEVATION (VIEW OF FRONT SIDE) — NTS



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D4.0-Fencing- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6654
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BADKERT
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
FENCING DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |

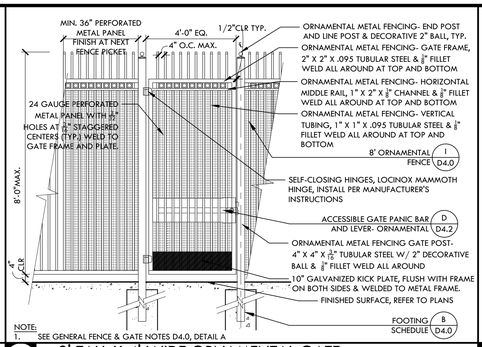
DRAWN BY: VDI
CHECKED BY: CS
DATE ISSUED: 03/27/20
SCALE: AS NOTED
PROJ. NO.: 1910900-1211
SHEET NO.: D4.1 OF 122

FENCING DETAILS

L

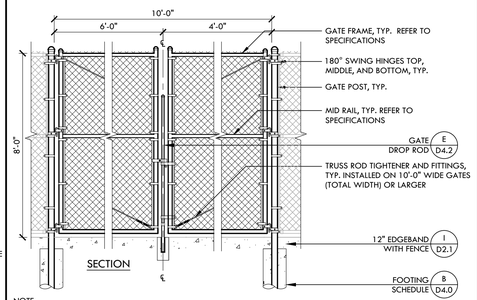
K

G 8' TALL X 4' WIDE ORNAMENTAL GATE - ACCESSIBLE NTS




NOTE:
1. SEE GENERAL FENCE & GATE NOTES D4.0, DETAIL A

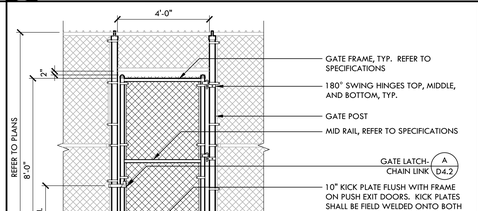
F 8' TALL - DOUBLE SWING GATE MIXED NTS



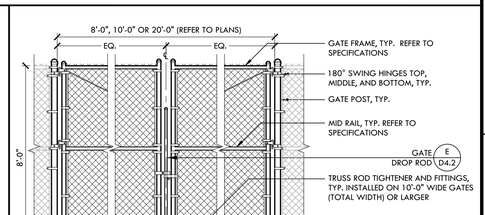

NOTE:
1. SEE GENERAL FENCE & GATE NOTES SHEET D4.0, DETAIL A.

J

E 20' WIDE SLIDING GATE NTS

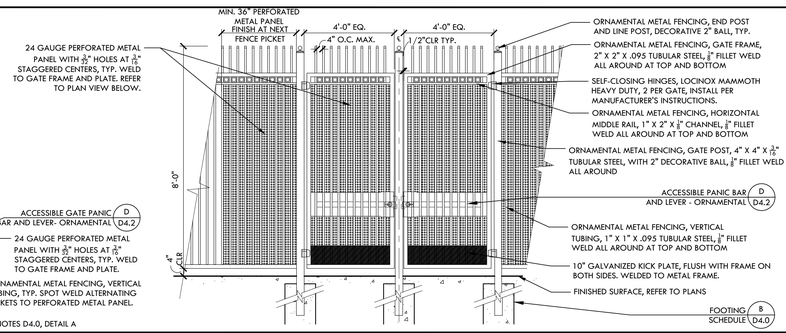



NOTE:
1. SEE GENERAL FENCE & GATE NOTES SHEET D4.0, DETAIL A.
2. WINDSCREEN AT FENCE AND GATE



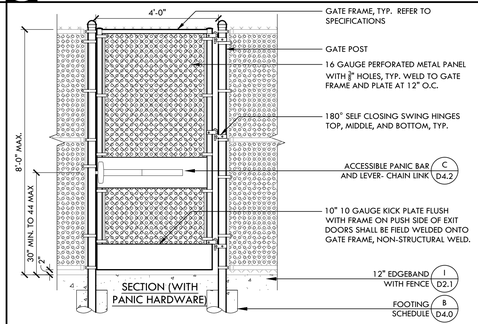

NOTE:
1. SEE GENERAL FENCE & GATE NOTES SHEET D4.0, DETAIL A.

I 8' TALL X 8' WIDE DOUBLE ORNAMENTAL GATE (ACCESSIBLE) NTS

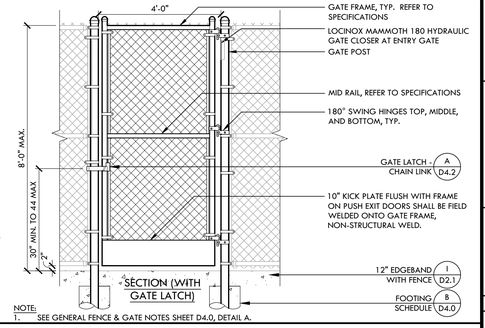



1. SEE GENERAL FENCE & GATE NOTES D4.0, DETAIL A

D 8' TALL x 4' SWING GATE - TRANSOM NTS

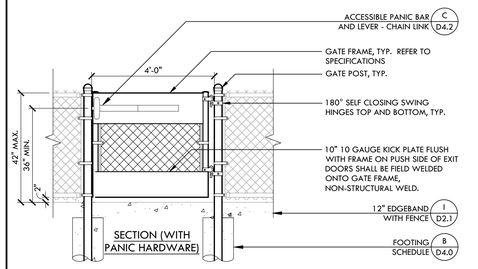


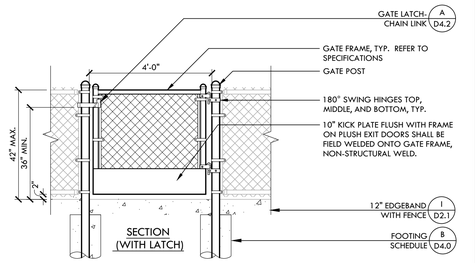

C 8' TALL - DOUBLE SWING GATE NTS




NOTE:
1. SEE GENERAL FENCE & GATE NOTES SHEET D4.0, DETAIL A.

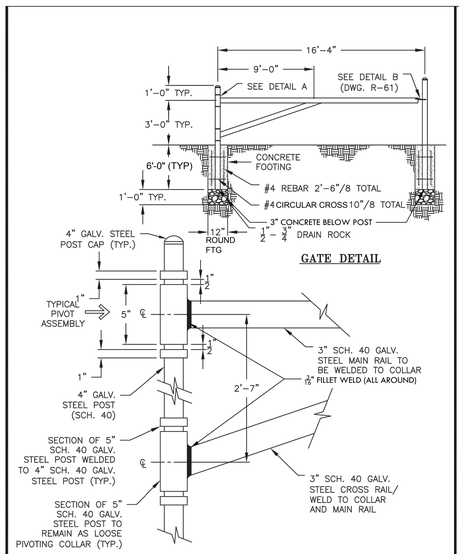
B 8' TALL X 4' SWING GATE NTS



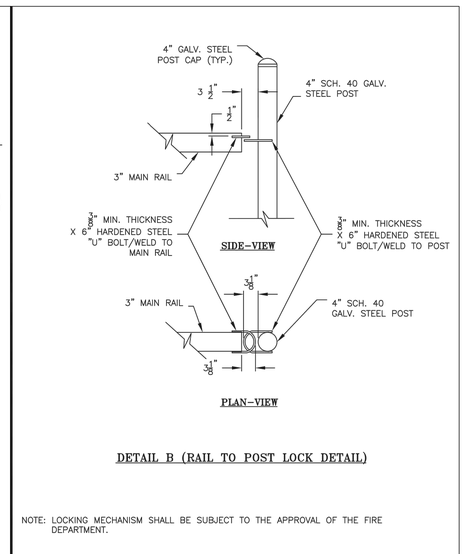

NOTE:
1. SEE GENERAL FENCE & GATE NOTES SHEET D4.0, DETAIL A.

H ACCESS GATE NTS




Page 1 of 2

| ACCESS GATE | REVISION NO. | APPROVED BY CITY ENGINEER: |
|---|---|---|
| CITY OF STOCKTON DEPARTMENT OF PUBLIC WORKS | 1 | DATE 09/27/2016 |
| | SCALE NONE | SUPERSEDES DWG. DATED 01/09/02 |
| | | DRAWING NO. R-61 |




NOTE: LOCKING MECHANISM SHALL BE SUBJECT TO THE APPROVAL OF THE FIRE DEPARTMENT.

Page 2 of 2

| ACCESS GATE | REVISION NO. | APPROVED BY CITY ENGINEER: |
|---|---|---|
| CITY OF STOCKTON DEPARTMENT OF PUBLIC WORKS | 1 | DATE 09/27/2016 |
| | SCALE NONE | SUPERSEDES DWG. DATED 01/09/02 |
| | | DRAWING NO. R-61 |

A 42"x4' SWING GATE NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
FENCING DETAILS - GATES

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

| DRAWN BY | CHECKED BY |
|---|---|
| VDI | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | AS NOTED |

PROJ. NO. 1910900-1211

SHEET NO. D4.2 OF 122

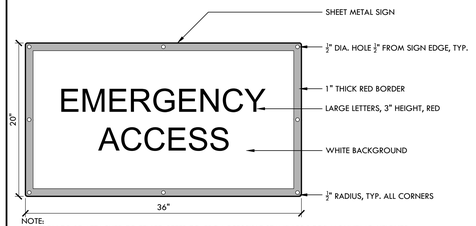


DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D4.0-Fencing- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

T

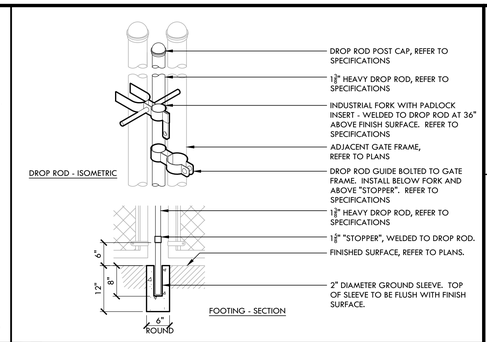
O

J EMERGENCY ACCESS SIGN NTS




NOTE:
1. SIGN TO BE ATTACHED TO FENCE, REFER TO CBC ACCESSIBLE STANDARDS FOR MOUNTING HEIGHTS.
2. FOR SIGNS ATTACHED TO POST, ¾" HOLE ARE NOT REQUIRE. SIGN TO BE BOLTED ONTO POST. REFER TO D4.0.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIGNAGE DETAILED ON PLANS FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION. METAL WILL BE ALUMINUM. NO OTHER SPECIFICATIONS ARE PROVIDED BEYOND DETAILS.
4. USE METAL 1 TO 6 RINGS - RINGS SHALL BE GALVANIZED AND BE A MINIMUM 9 GAUGE FOR FASTENING TO FENCE, TYP.

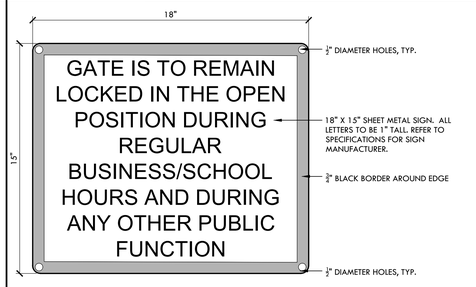
E GATE - DROP ROD NTS




S

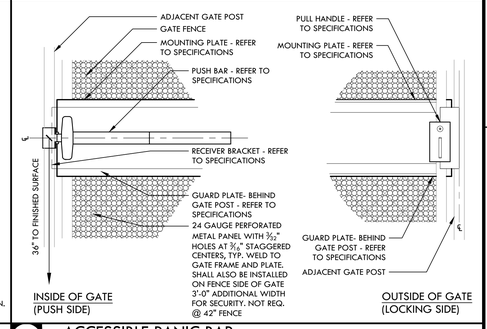
N

I WELCOME SIGN NTS



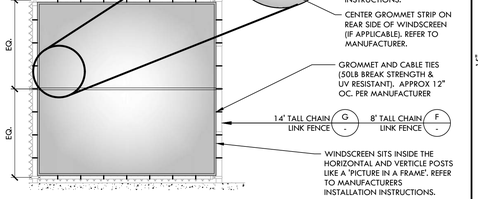

NOTE:
1. SIGN TO BE ATTACHED TO FENCE, REFER TO CBC ACCESSIBLE STANDARDS FOR MOUNTING HEIGHTS.
2. FOR SIGNS ATTACHED TO POST, ¾" HOLE ARE NOT REQUIRE. SIGN TO BE BOLTED ONTO POST. REFER TO D4.0.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIGNAGE DETAILED ON PLANS FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION. METAL WILL BE ALUMINUM. NO OTHER SPECIFICATIONS ARE PROVIDED BEYOND DETAILS.
4. USE METAL 1 TO 6 RINGS - RINGS SHALL BE GALVANIZED AND BE A MINIMUM 9 GAUGE FOR FASTENING TO FENCE, TYP.

D ACCESSIBLE PANIC BAR AND LEVER - ORNAMENTAL NTS



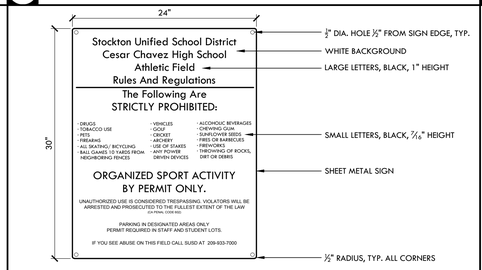

R

M WINDSCREEN NTS



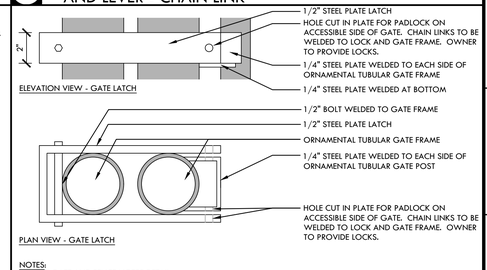

NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

H ACCESS SIGN NTS




NOTES:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIGNAGE DETAILED ON PLANS. METAL WILL BE ALUMINUM. NO OTHER SPECIFICATIONS ARE PROVIDED BEYOND DETAILS.
2. USE METAL 8 RINGS - RINGS SHALL BE GALVANIZED AND BE A MINIMUM 9 GAUGE FOR FASTENING TO FENCE, TYP.
3. FOR SIGNS ATTACHED TO POST, ¾" HOLE ARE NOT REQUIRE. SIGN TO BE BOLTED ONTO POST. REFER TO D4.0.

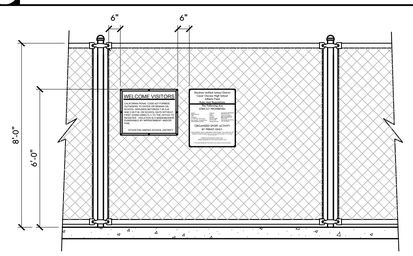
C ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK NTS




NOTES:
1. SEE GATE AND FENCE NOTES DETAIL.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION.
3. GATE LATCH WIDTH TO VARY BASED ON GATE/FENCE POST DIMENSIONS.
4. ALL WELDING TO BE DONE IN THE FIELD AND EDGES TO BE GROUND SMOOTH. PRIMER AND TWO COATS OF BLACK PAINT TO BE APPLIED TO WELDS.

Q

L SIGN ATTACHMENT - 8' FENCING NTS



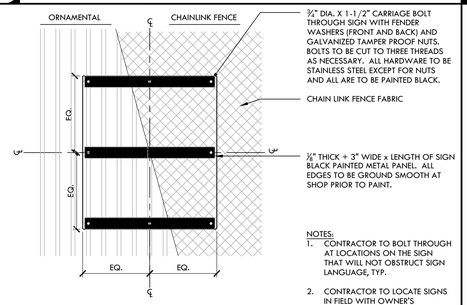

NOTES:
1. WELCOME SIGN AND RULES SIGN SHALL ONLY BE ATTACHED ONTO 8' FENCING.
2. REFER TO DETAILS X, X, AND X FOR ATTACHMENT REQUIREMENTS.

G RULES SIGN NTS

B GATE PADLOCK AND LATCH - ORNAMENTAL NTS

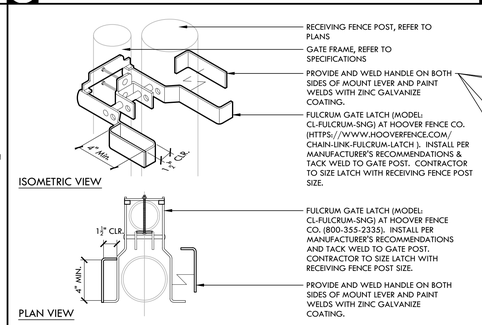
P

K SIGN ATTACHMENT AT FENCE NTS




NOTES:
1. CONTRACTOR TO BOLT THROUGH AT LOCATIONS ON THE SIGN THAT WILL NOT OBSTRUCT SIGN LANGUAGE, TYP.
2. CONTRACTOR TO LOCATE SIGNS IN FIELD WITH OWNER'S REPRESENTATIVE.

A GATE LATCH- CHAIN LINK NTS





FULCRUM GATE LATCH (MODEL: CL-FULCRUM-SNG) AT HOOVER FENCE CO. (HTTPS://WWW.HOOVERFENCE.COM/ CHAIN-LINK-FULCRUM-LATCH )

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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VERDE DESIGN
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MARK S. BARKER
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EXPIRATION DATE: JULY 2021
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CONSULTANT

KEYMAP

SHEET TITLE
FENCING DETAILS - HARDWARE

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
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| NO. | REVISIONS | DATE |
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| DRAWN BY | CHECKED BY |
|---|---|
| VDI | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | AS NOTED |

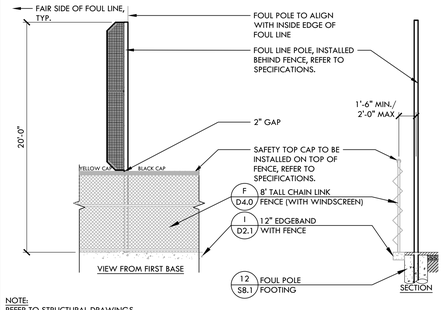
PROJ. NO.
1910900-1211

SHEET NO.
D4.3 OF 122

O

J

## G FOUL POLE NTS




NOTE:
REFER TO STRUCTURAL DRAWINGS

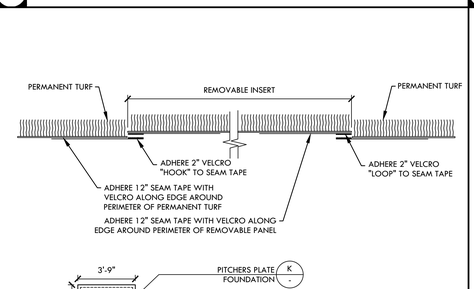
D

NOT USED

N

I

## F HOME PLATE, BATTER'S AND CATCHER'S BOX STRIPING NTS




BATTER'S & CATCHER'S BOX STRIPING

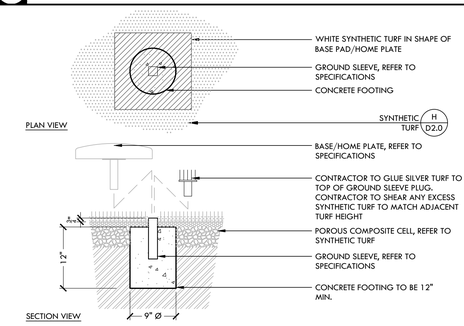



HOME PLATE ENLARGEMENT

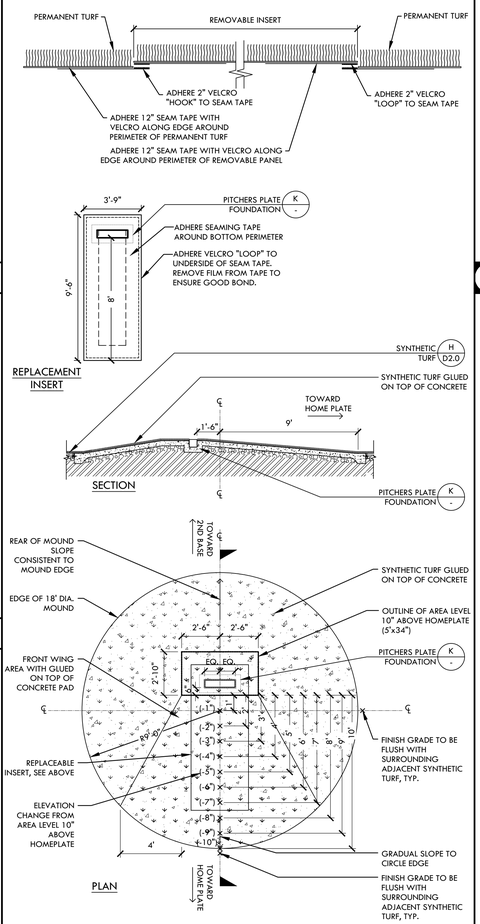
NOTE:
1. STRIPING SHALL BE INLAID OR TUFTED 2" WIDE WHITE LINES. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NFHS AND C.I.F (CALIFORNIA. INTERSCHOLASTIC FEDERATION) GUIDELINES.

C

## BASE GROUND SLEEVE IN SYNTHETIC TURF NTS




L

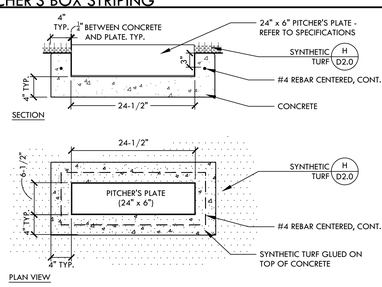



NOTES:
1. DISTANCE FROM FRONT OF PITCHING PLATE TO BACK OF HOME PLATE TO BE 60'-6".
2. DISTANCE FROM CENTER OF CIRCLE TO BACK OF HOME PLATE TO BE 59'-0"

M

K

## H SYNTHETIC TURF PITCHER'S MOUND NTS



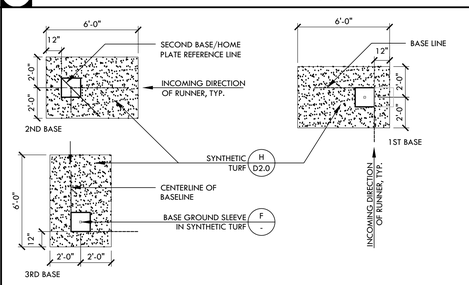

NOTES:
1. PITCHER'S PLATE SHALL BE SET SO IT IS 1/4" ABOVE SYNTHETIC TURF INFILL.
2. SYNTHETIC TURF BACKING SHALL BE GLUED TO CONCRETE COLLAR.
3. ½" GAP BETWEEN PITCHERS PLATE AND CONCRETE SHALL BE BACKFILLED WITH INFILL SAND

E

## E PITCHER'S PLATE FOUNDATION NTS

B

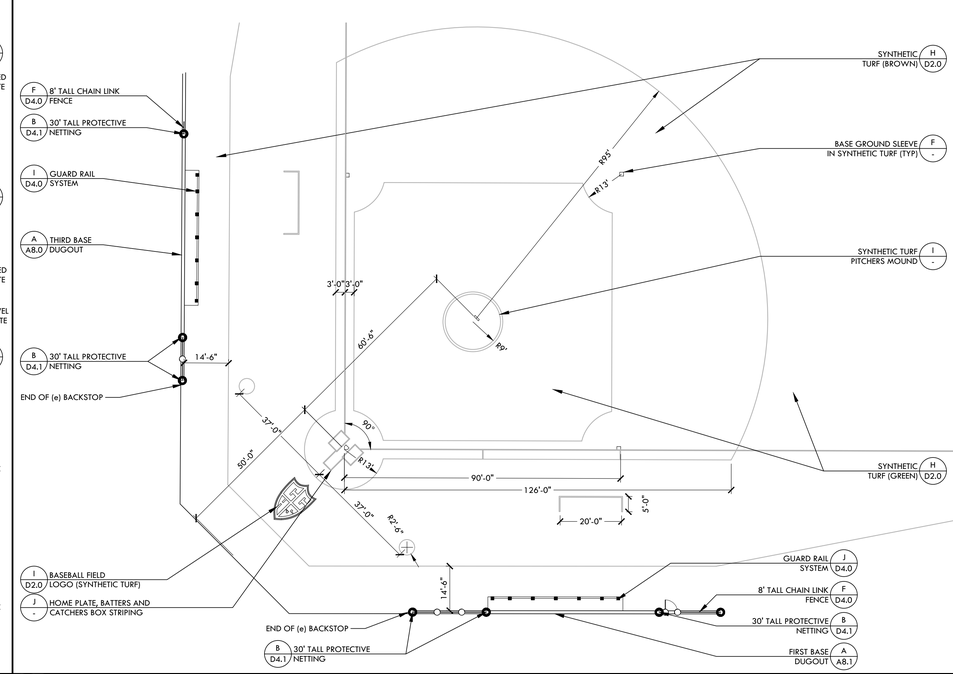
## B BASE PAD LOCATION NTS




NOTES:
1. PEGS LOCATED CENTERED ON BASE, 7" FROM INTERSECTION OF BASE LINE FOR 1ST AND 3RD BASES.
2. PEGS LOCATED ON INTERSECTION OF BASE LINE FOR 2ND BASE.
3. DETAIL PROVIDED FOR LOCATION ONLY.

A

## A BASEBALL INFIELD NTS

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BADKERT
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
BASEBALL CONSTRUCTION DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
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| NO. | REVISIONS | DATE |
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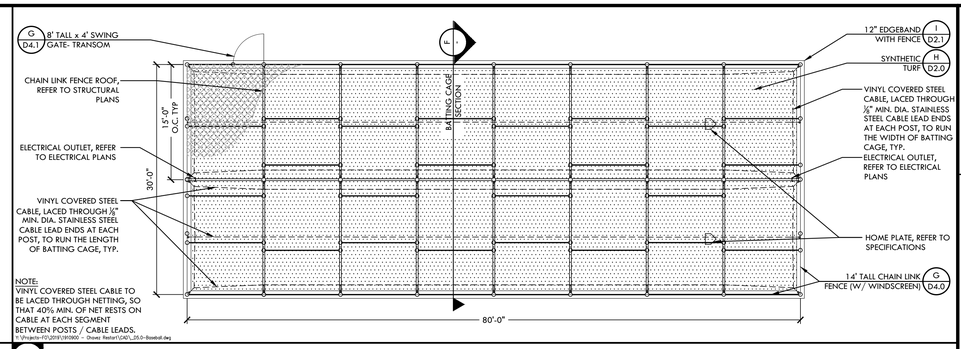
| DRAWN BY | CHECKED BY |
|---|---|
| VDI | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | AS NOTED |

PROJ. NO.
1910900-1211

SHEET NO.
D5.0 OF 122

BASEBALL CONSTRUCTION DETAILS

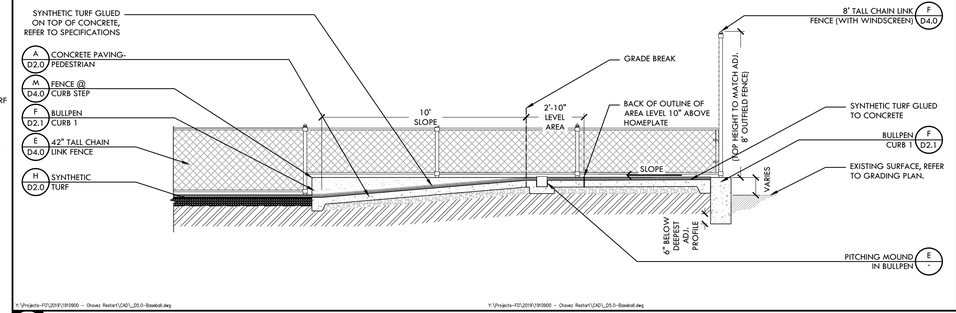
DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D5.0-Baseball.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40



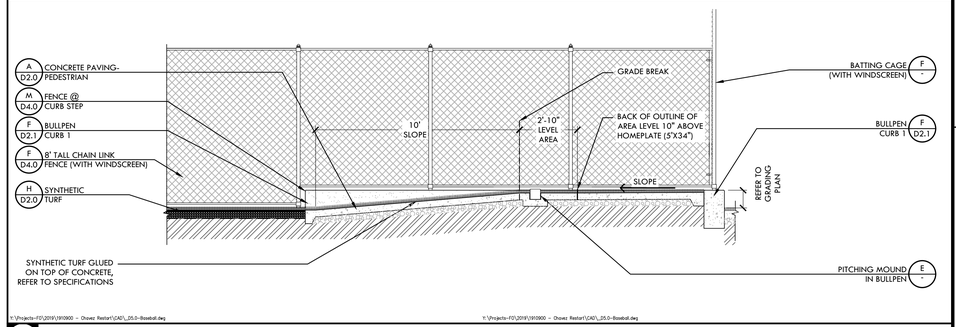

M

H

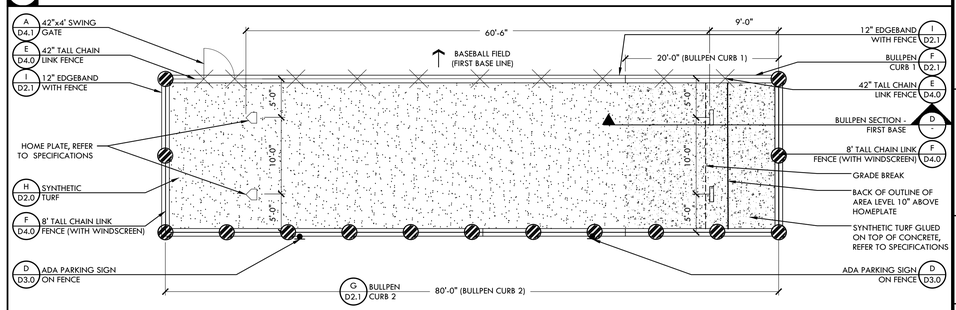
E BATTING CAGE NTS



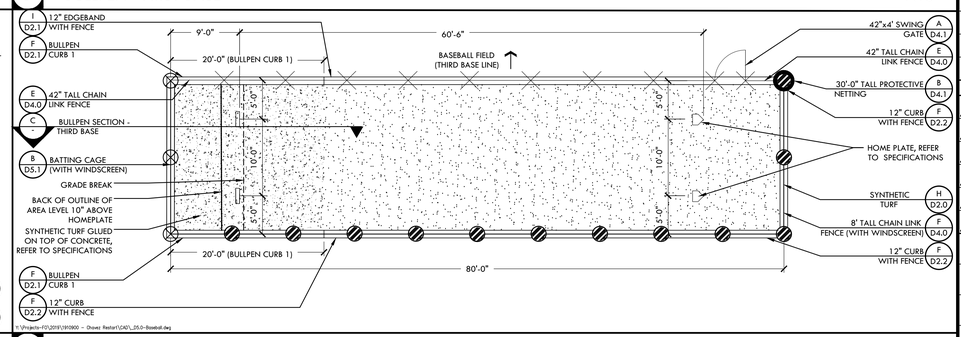

D BULLPEN SECTION - FIRST BASE NTS



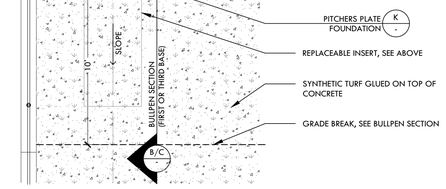

C BULLPEN SECTION - THIRD BASE NTS

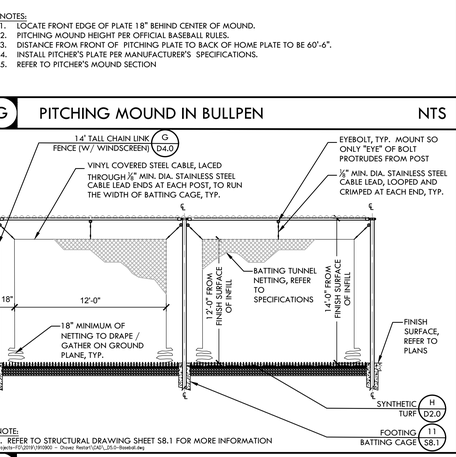



B BULLPEN - FIRST BASE NTS




A BULLPEN - THIRD BASE NTS

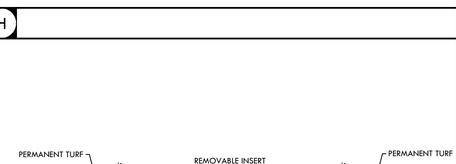



NOTES:
1. LOCATE FRONT EDGE OF PLATE 18" BEHIND CENTER OF MOUND.
2. PITCHING MOUND HEIGHT PER OFFICIAL BASEBALL RULES.
3. DISTANCE FROM FRONT OF PITCHING PLATE TO BACK OF HOME PLATE TO BE 60'-6".
4. INSTALL PITCHER'S PLATE PER MANUFACTURER'S SPECIFICATIONS.
5. REFER TO PITCHER'S MOUND SECTION

J

G PITCHING MOUND IN BULLPEN NTS




L

K




NOTE:
1. REFER TO STRUCTURAL DRAWING SHEET S8.1 FOR MORE INFORMATION

I

F BATTING CAGE SECTION NTS

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MARK S. BARTKUS
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

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STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
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STOCKTON, CA 95212

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| VDI | CS |
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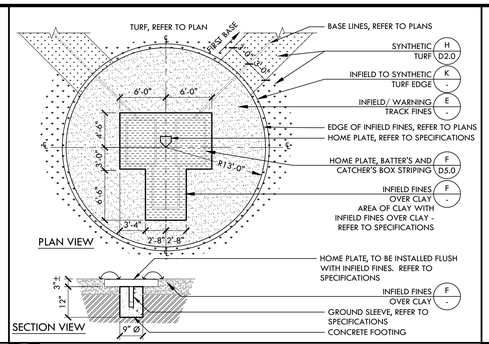
PROJ. NO.
1910900-1211

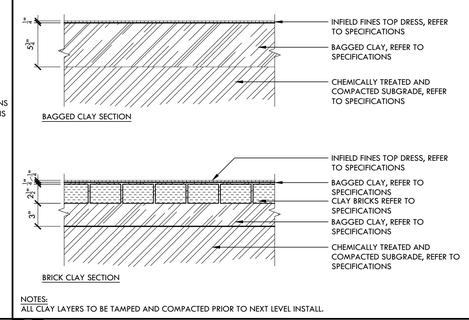
SHEET NO.
D5.1 OF 122

N

I HOME PLATE - BASEBALL NTS

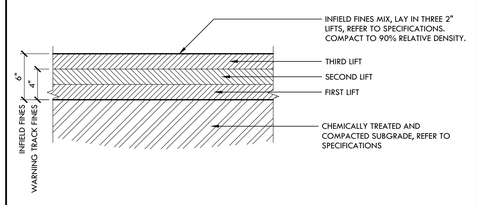



F INFIELD FINES OVER CLAY NTS



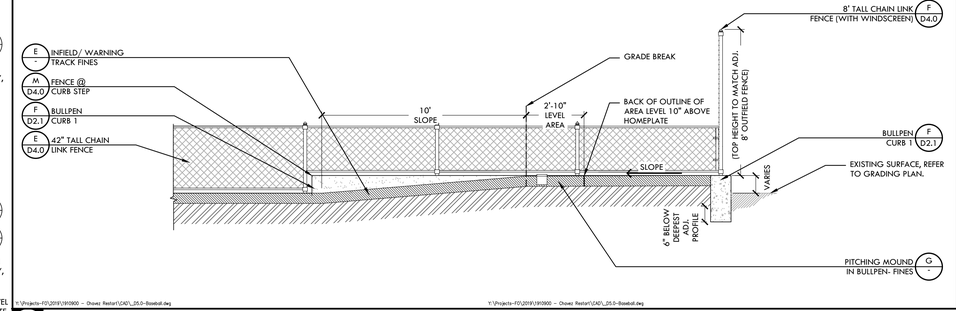

NOTES:
ALL CLAY LAYERS TO BE TAMPED AND COMPACTED PRIOR TO NEXT LEVEL INSTALL.

E INFIELD / WARNING TRACK FINES NTS



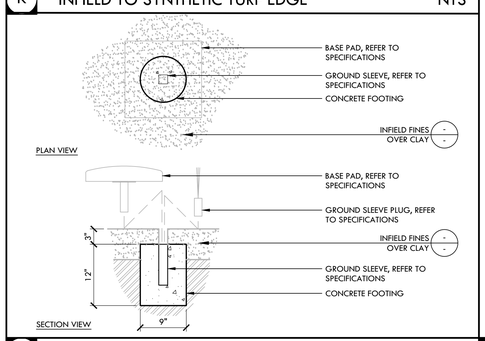

M

D BULLPEN SECTION - FIRST BASE NTS



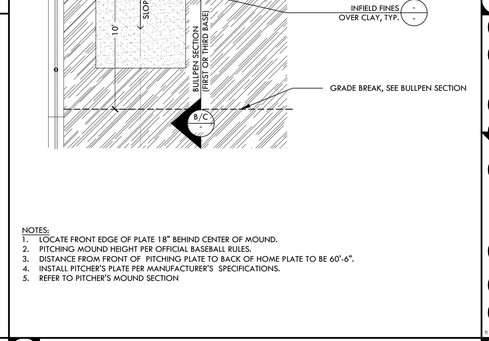

L

K INFIELD TO SYNTHETIC TURF EDGE NTS



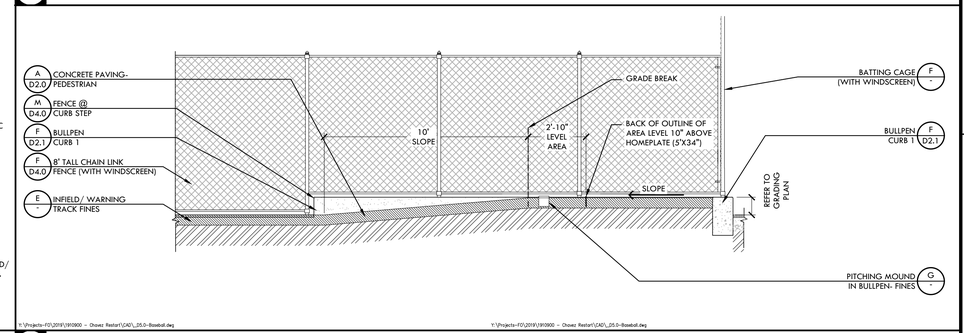

NOTE:
INFIELD FINES TO BE INSTALLED 1½" ABOVE EDGEBAND OR EQUAL TO SYNTHETIC TURF INFILL LEVEL.

H PITCHERS MOUND WITH FINES NTS




NOTES:
1. DISTANCE FROM FRONT OF PITCHING PLATE TO BACK OF HOME PLATE TO BE 60'-6".
2. DISTANCE FROM CENTER OF CIRCLE TO BACK OF HOME PLATE TO BE 59'-0"

C BULLPEN SECTION - THIRD BASE NTS

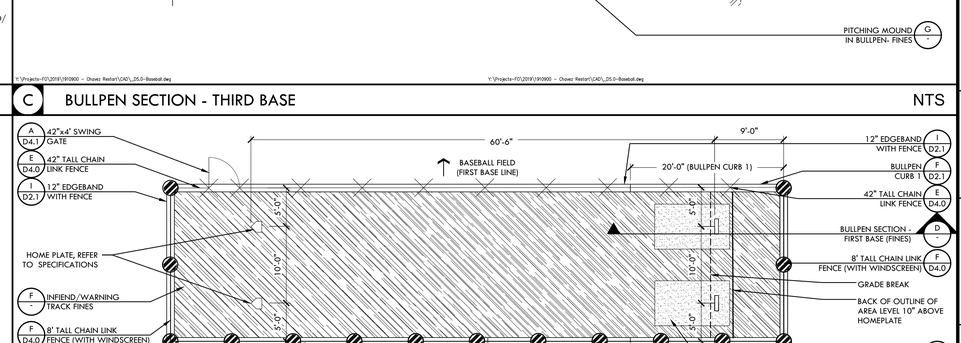



G PITCHING MOUND IN BULLPEN- FINES NTS




NOTES:
1. LOCATE FRONT EDGE OF PLATE 18" BEHIND CENTER OF MOUND.
2. PITCHING MOUND HEIGHT PER OFFICIAL BASEBALL RULES.
3. DISTANCE FROM FRONT OF PITCHING PLATE TO BACK OF HOME PLATE TO BE 60'-6".
4. INSTALL PITCHER'S PLATE PER MANUFACTURER'S SPECIFICATIONS.
5. REFER TO PITCHER'S MOUND SECTION

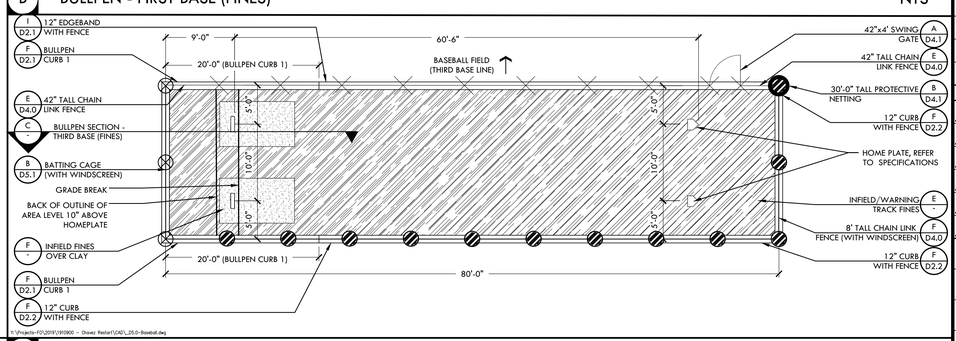
B BULLPEN - FIRST BASE (FINES) NTS




J BASE GROUND SLEEVE IN FINES NTS




A BULLPEN - THIRD BASE (FINES) NTS

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MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
ALTERNATE CONSTRUCTION DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
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STOCKTON, CA 95212

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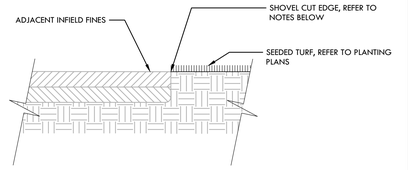
PROJ. NO.
1910900-1211

SHEET NO.
D5.2 OF 122

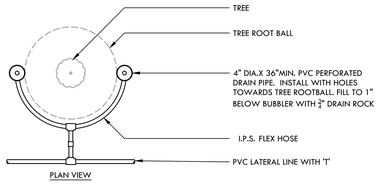
ALTERNATE CONSTRUCTION DETAILS

DRAWING NAME: Y:\Projects-F0\2019\1910900 - Chavez Restart\CAD_D5.0-Baseball.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40




NOTES:
1. CONTRACTOR SHALL CREATE CLEAN EDGE BETWEEN EXISTING INFIELD FINES AND ADJACENT TURF USING A STRAIGHT FACED "SPADE" SHOVEL.
2. CONTRACTOR SHALL FOLLOW THE LAYOUT LINE FOR THE TURF EDGE AS INDICATED IN THE DRAWINGS, CUTTING VERTICALLY AT A 90 DEGREE ANGLE, INTO THE TURF EDGE, AT A DEPTH OF 3 TO 4 INCHES. THEN, THE CONTRACTOR SHALL MAKE A BACK CUT, FROM THE OPPOSITE SIDE, WITH A STRAIGHT-FACED SPADE SHOVEL, AT A 45 DEGREE ANGLE TO MEET THE BOTTOM OF THE FIRST CUT.
3. THE CONTRACTOR SHALL THEN EXCAVATE AND REMOVE THE SOIL WEDGE BETWEEN THE TWO CUTS, RAKING THE TRENCH SMOOTH TO CREATE A CLEAN BEVELED EDGE.

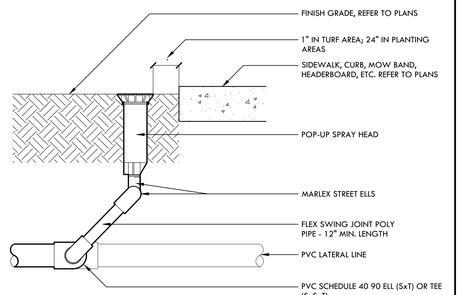
## R SHOVEL CUT EDGE NTS



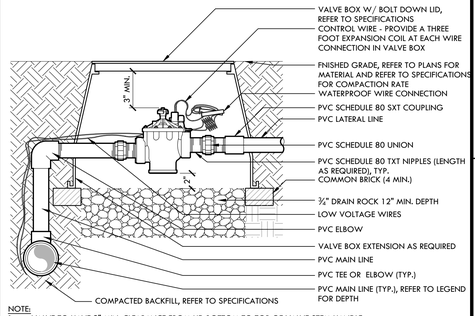

NOTE:
1. BUBBLERS ARE REQUIRED FOR TREES IN LAWN AND SHRUB AREA. TWO BUBBLERS PER TREE ARE TO BE PLACED ON OPPOSITE SIDES OF ROOTBALL. ORIENT BUBBLERS 180° FROM EACH OTHER.
2. USE PROPER RATED GLUE FOR I.P.S. FLEX HOSE.

| TRUNK TO BUBBLER SPACING | |
|---|---|
| SIZE | SPACING |
| 15 GALLON TREE | 15" |
| 24" BOX TREE | 20" |
| 36" BOX TREE | 25" |

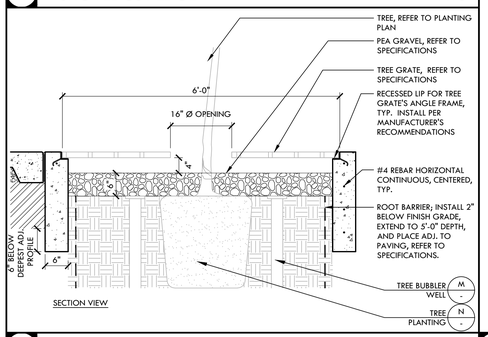
## I POP UP AND SWING JOINT NTS



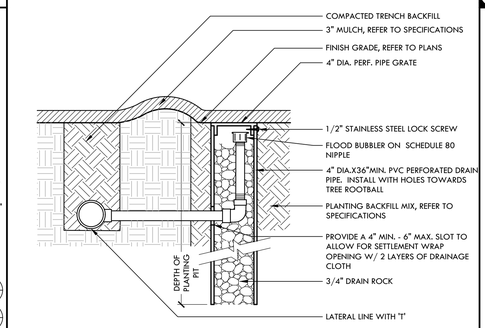

## E REMOTE CONTROL VALVE NTS



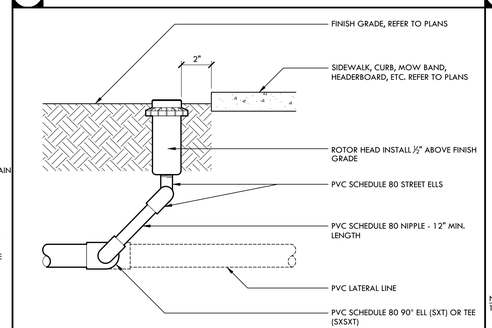

NOTE:
1. VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE STEM HANDLE.



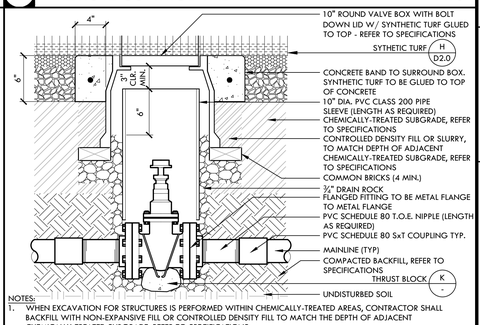

## Q TREE WELL WITH GRATE NTS




## M TREE BUBBLER NTS

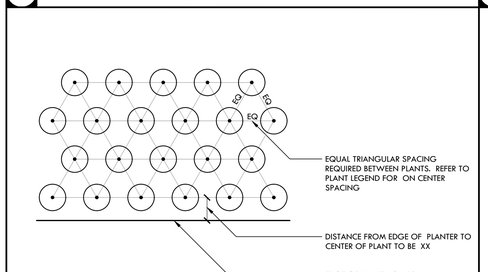



## H ROTOR HEAD AND SWING JOINT NTS

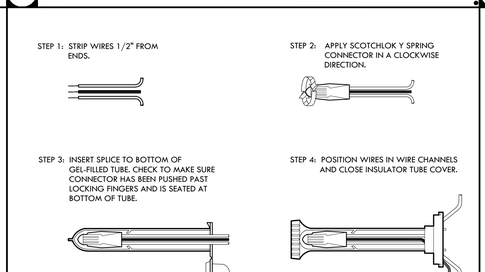



NOTES:
1. WHEN EXCAVATION FOR STRUCTURES IS PERFORMED WITHIN CHEMICALLY-TREATED AREAS, CONTRACTOR SHALL BACKFILL WITH NON-EXPANSIVE FILL OR CONTROLLED DENSITY FILL TO MATCH THE DEPTH OF ADJACENT CHEMICALLY-TREATED SUBGRADE, REFER TO SPECIFICATIONS

## D GATE VALVE - 2 1/2" AND LARGER IN SYN. TURF NTS

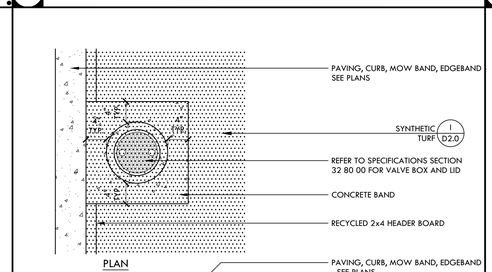



## P TRIANGULAR SPACING DIAGRAM NTS



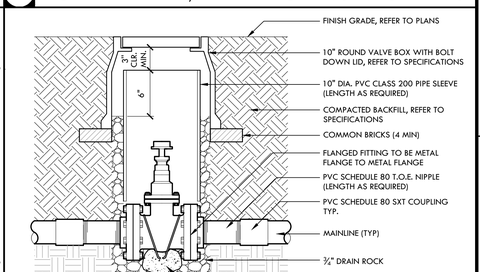

NOTE:
1. MAXIMUM WIRE SIZES PER CONNECTOR ARE 3 - #14'S OR 2 - #12'S.

## L CONTROL WIRE CONNECTION NTS




NOTE:
1. WHEN EXCAVATION FOR STRUCTURES IS PERFORMED WITHIN CHEMICALLY-TREATED AREAS, CONTRACTOR SHALL BACKFILL WITH NON-EXPANSIVE FILL OR CONTROLLED DENSITY FILL TO MATCH THE DEPTH OF ADJACENT CHEMICALLY-TREATED SUBGRADE, REFER TO SPECIFICATIONS.

## G QUICK COUPLER IN SYNTHETIC TURF NTS




NOTE:
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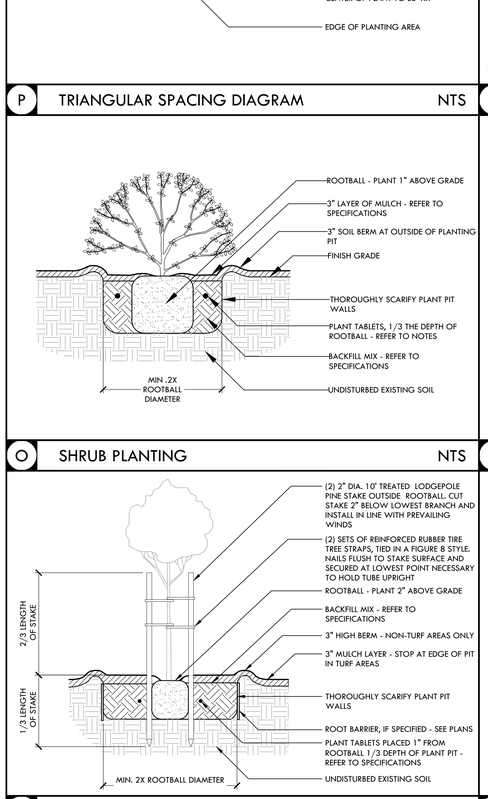
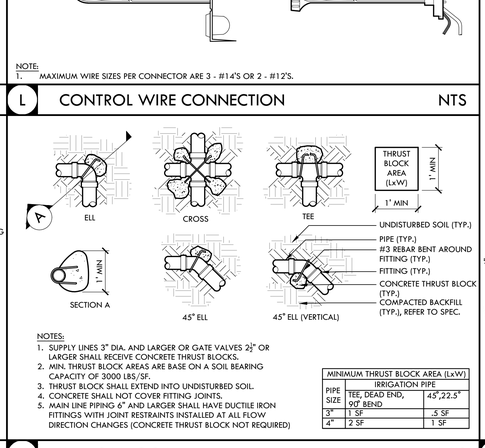
## B GATE VALVE IN SYNTHETIC TURF NTS



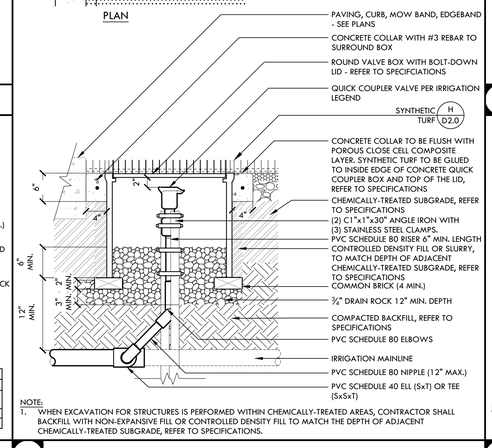

## N TREE PLANTING NTS




## O SHRUB PLANTING NTS

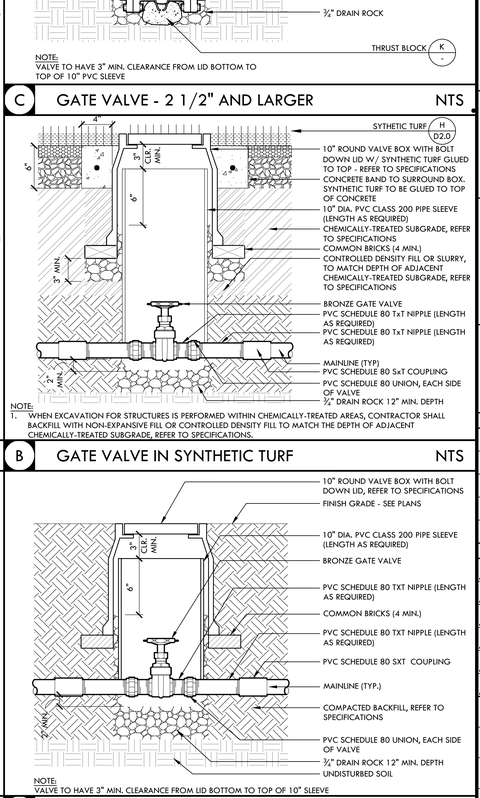



## J IRRIGATION PIPE TRENCHING NTS




NOTE:
VALVE TO HAVE 2" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE CAP.

## F QUICK COUPLER VALVE NTS




NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF 10" SLEEVE

## A GATE VALVE - 2" AND SMALLER IN SIZE NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARKER
No. 4099
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
IRRIGATION AND PLANTING DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
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| DRAWN BY | CHECKED BY |
|---|---|
| VDI | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | AS NOTED |
| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| D6.0 | OF 122 |

IRRIGATION AND PLANTING DETAILS



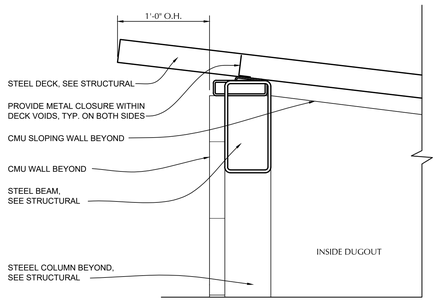
DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_D6.0-Irrigation and Planting- Athletics.dwg
PLOT DATE: 03-30-20 PLOTTED BY: station40

GOLD (PANTONE 124 C)

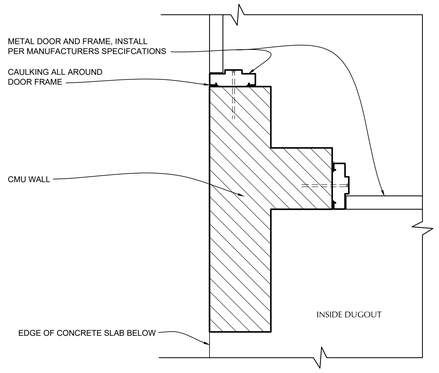
BLACK (PANTONE BLACK)

DIGITAL IMAGE TO BE PROVIDED TO PAINTING CONTRACTOR FOR FINAL PRODUCTION.

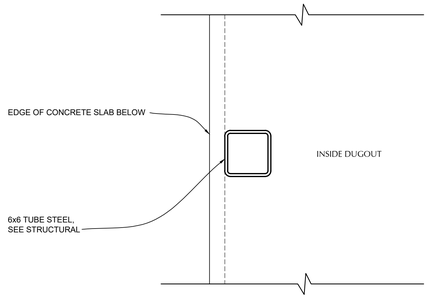
## 1 SCHOOL LOGO — SCALE: N.T.S.




## 2 EAVE DETAIL — SCALE: 1 1/2"= 1'-0"




## 3 MAN DOOR JAMB DETAIL — SCALE: 1 1/2"= 1'-0"




## 4 MID COLUMN SUPPORT — SCALE: 1 1/2"=1'-0"

### DOOR AND FRAME SCHEDULE

| DOOR NO. | DOOR | | | | FRAME MATERIAL | RATING |
|---|---|---|---|---|---|---|
| | WIDTH | HEIGHT | THICKNESS | MATERIAL | | |
| A | 3'-0" | 7'-0" | 1 3/4" | MTL. | STEEL | NONE |

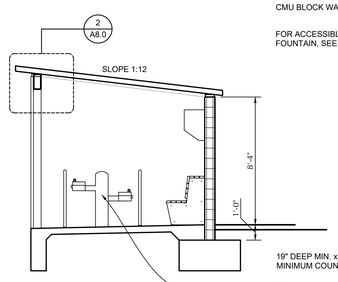
DOOR NOTES:

1. CONTRACTOR SHALL VERIFY ALL DOOR SIZES & ROUGH OPENINGS IN FIELD PRIOR TO ORDERING
2. VERIFY ALL DOORS, FRAMES, AND HARDWARE WITH OWNER
3. DOOR HARDWARE AT ALL EXIT DOORS SHALL ALLOW DOORS TO BE OPENED FROM THE INSIDE WITHOUT KEY, SPECIAL KNOWLEDGE, OR EFFORT, PER U.B.C. SEC. 1004.3.
4. MAXIMUM DOOR OPENING EFFORTS SHALL BE: 5 LBS. AT EXTERIOR DOORS, 5 LBS. AT INTERIOR DOORS
5. ALL DOORS SHALL BE EQUIPPED WITH SINGLE EFFORT, NON-GRASP HARDWARE (i.e. LEVER) CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR
6. ALL DOORS SHALL HAVE A 10" HIGH MINIMUM FLAT SURFACE AT THE DOOR BOTTOM TO BE USED AS A KICKPLATE; NO GLAZING
7. DOORS SHALL HAVE KEYED PRIVACY HARDWARE AND SECURITY DEADBOLT
9. NONE OF THE DOORS SHALL BE EQUIPPED WITH THRESHOLDS

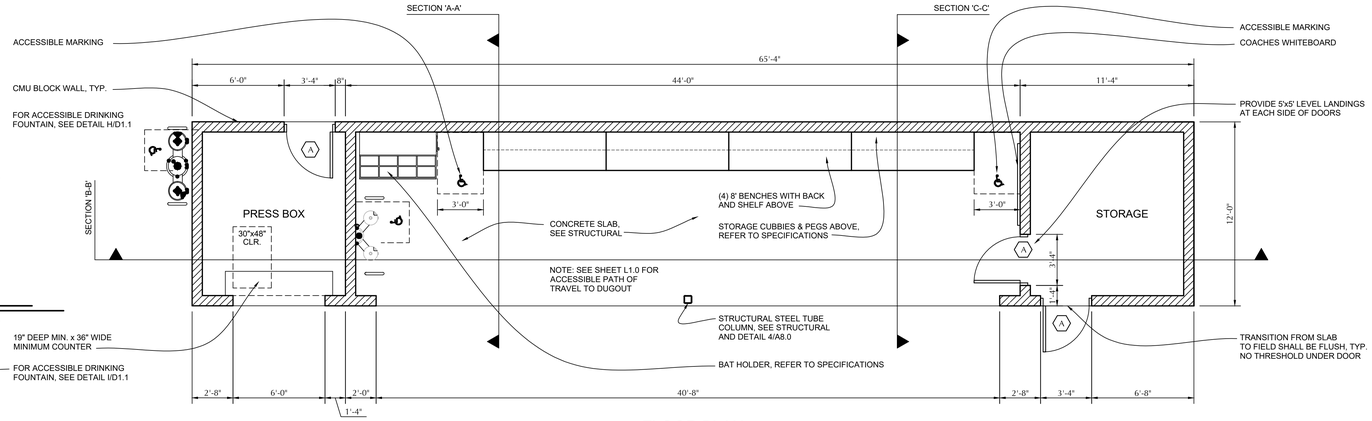
## 5 DOOR FRAME AND SCHEDULE — SCALE: N.T.S.

PROJECT DATA:

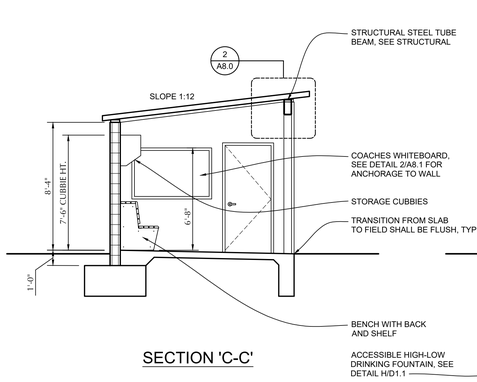
CONSTRUCTION TYPE: V-B
OCCUPANCY GROUP: A-5, S-2
AREA CALCULATIONS:
536 S.F. FIRST BASE DUGOUT
128 S.F. FIRST BASE STORAGE
536 S.F. THIRD BASE DUGOUT
128 S.F. THIRD BASE STORAGE
120 S.F. THIRD BASE PRESSBOX



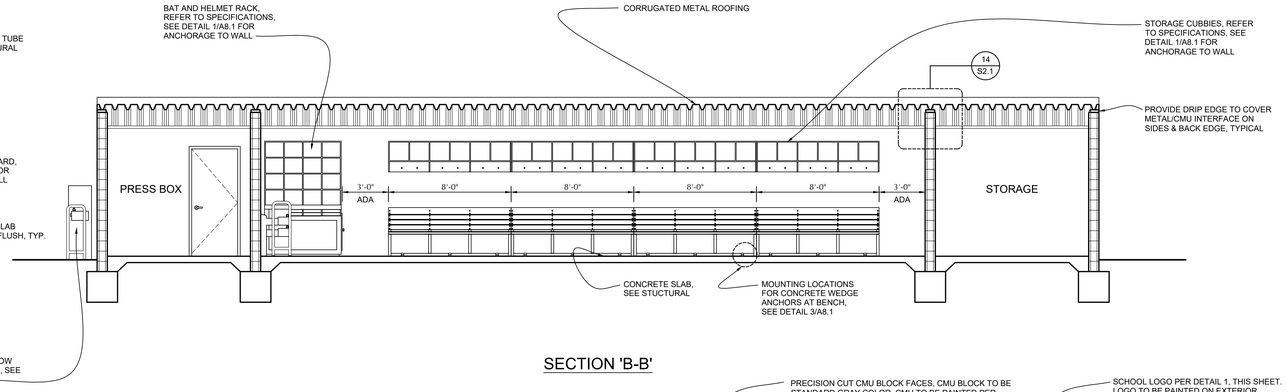

SECTION 'A-A'



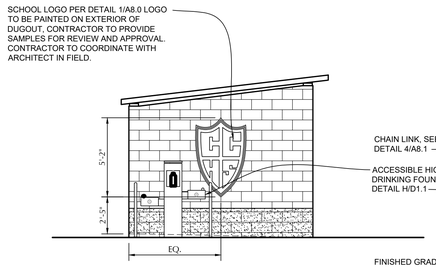

FLOOR PLAN



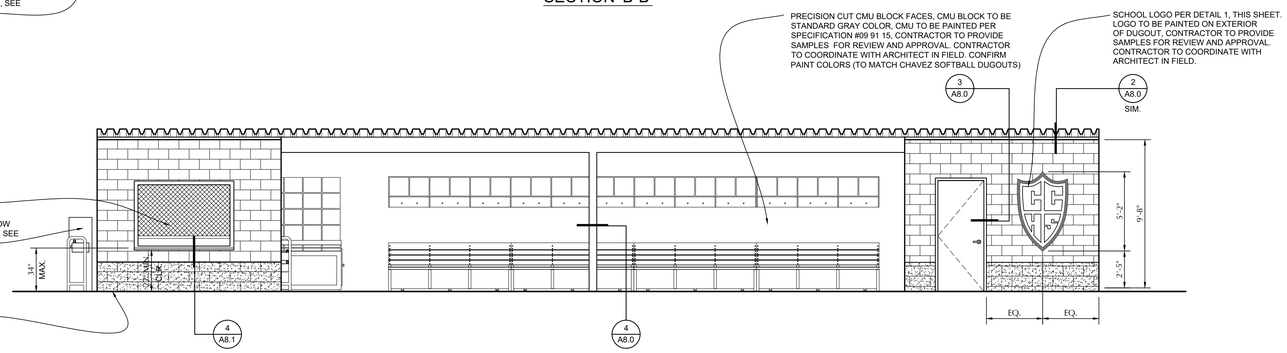

SECTION 'C-C'



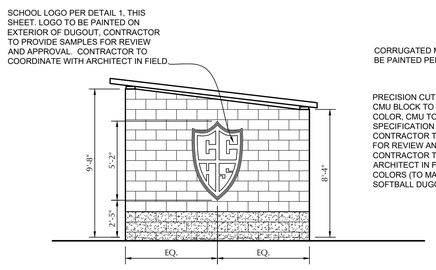

SECTION 'B-B'



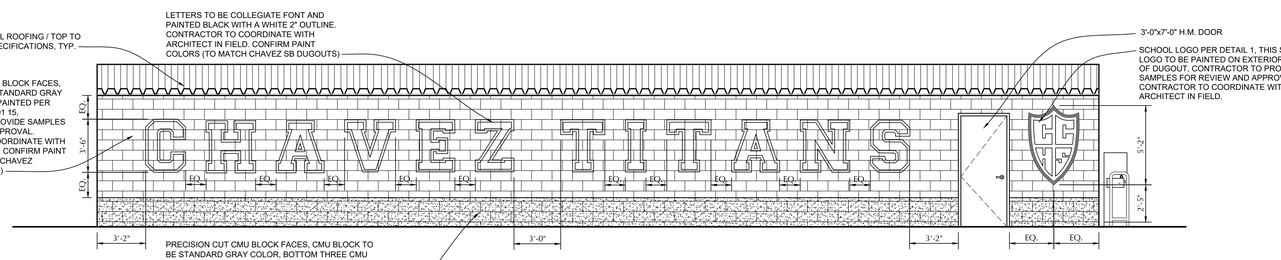

LEFT SIDE EXTERIOR ELEVATION




FRONT EXTERIOR ELEVATION




RIGHT SIDE EXTERIOR ELEVATION




REAR EXTERIOR ELEVATION

NOTES:

1. APPLY BLOCK FILLER PRIOR TO PAINTING, REFER TO SPECIFICATIONS
2. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION
3. REFER TO ELECTRICAL DRAWINGS FOR OUTLET AND LIGHTING INFORMATION

## A THIRD BASE DUGOUT WITH PRESSBOX / PLANS AND ELEVATIONS — SCALE: 1/4"= 1'-0"

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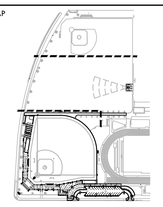
REGISTERED LANDSCAPE ARCHITECT — MARK S. BARKER — No. 4099 — EXPIRATION DATE: JULY 2021 — STATE OF CALIFORNIA

CONSULTANT


WILLIAM C. KEMPF ARCHITECT
911 Center Street, Suite F
Santa Cruz, CA 95060
831 459-0951
www.wckempf.com


LICENSED ARCHITECT — WILLIAM C. KEMPF — No. 25962 — SEPTEMBER 30, 2021 EXPIRATION — STATE OF CALIFORNIA

KEYMAP



SHEET TITLE

THIRD BASE DUGOUT PLANS & ELEVATIONS DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

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| 03/27/20 | AS SHOWN |
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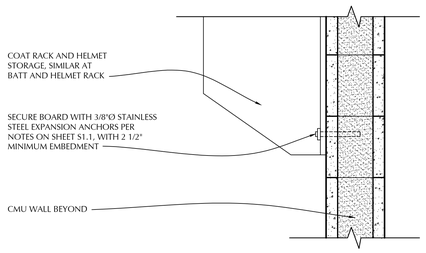
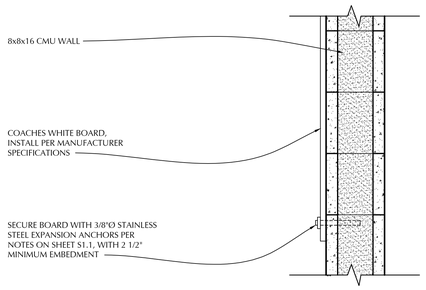
| 1910900-1211 | |
| SHEET NO. | |
| **A8.0** | OF # |



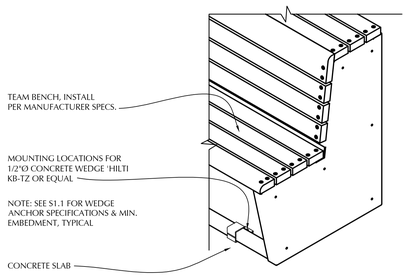
DRAWING NAME: J:\2 Active Jobfiles\Verde Design\3 Active\Stockton USD\7 Chavez 2019\1 WCK Work\Plan Check 1\Dugouts\Plan Check 1B - WCK_A80 Third Base Dugout.dwg
PLOT DATE: 04-01-20 PLOTTED BY: wckem



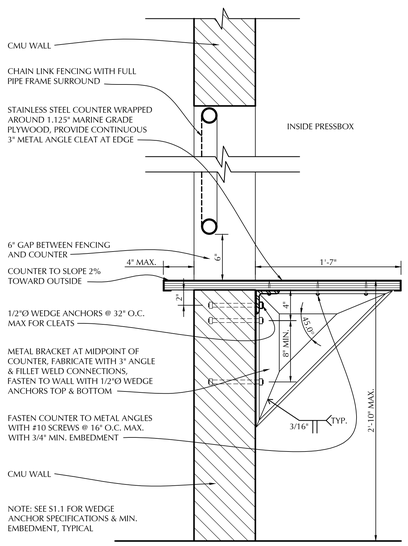

## 1 WALL FASTENING — SCALE: 1 1/2"= 1'-0"



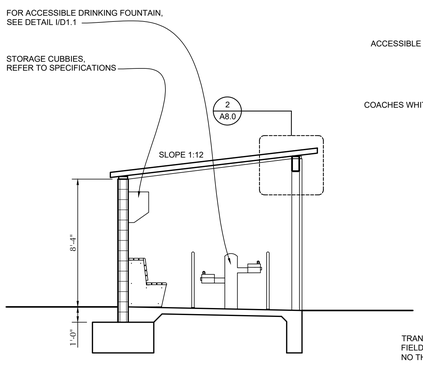

## 2 WHITE BOARD FASTENING — SCALE: 1 1/2"= 1'-0"



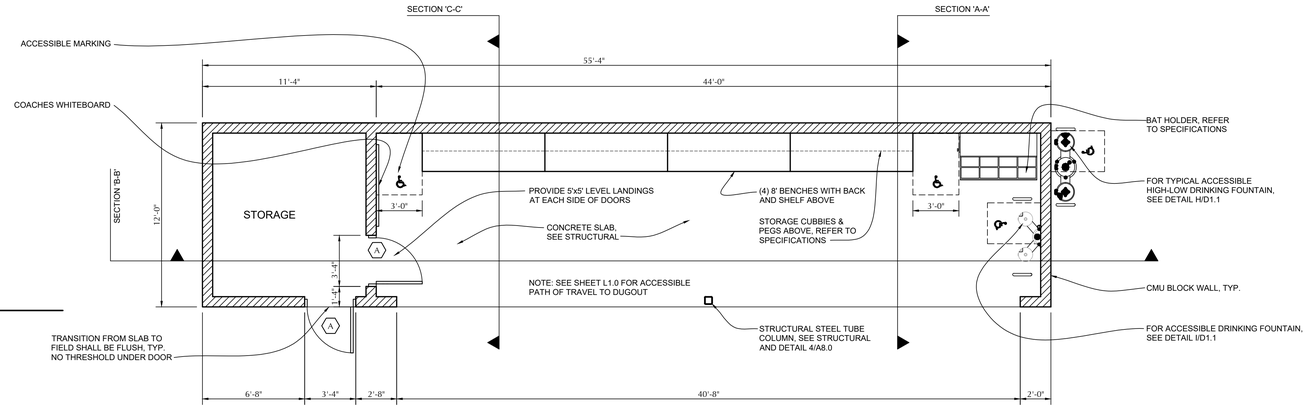

## 3 BENCH — SCALE: 1 1/2"= 1'-0"



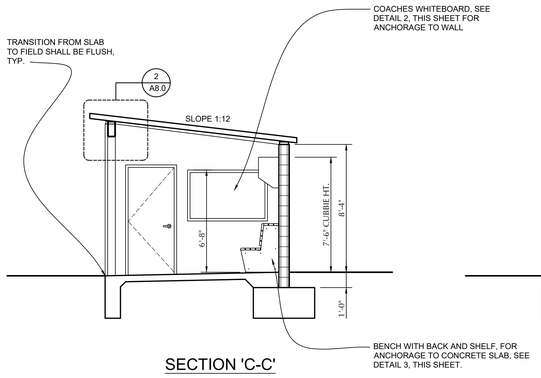

## 4 PRESSBOX OPENING — SCALE: 1 1/2"= 1'-0"



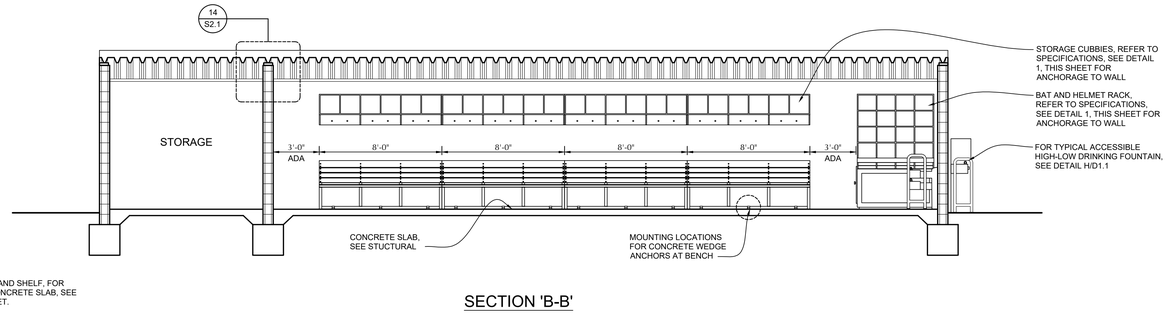

## SECTION 'A-A'



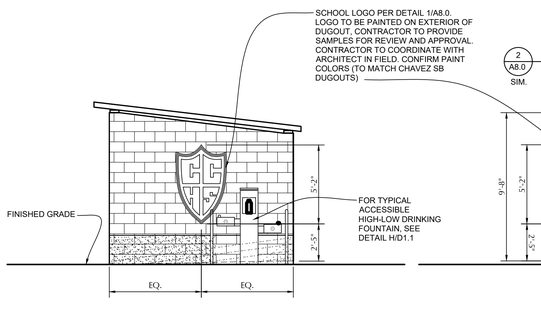

## FLOOR PLAN



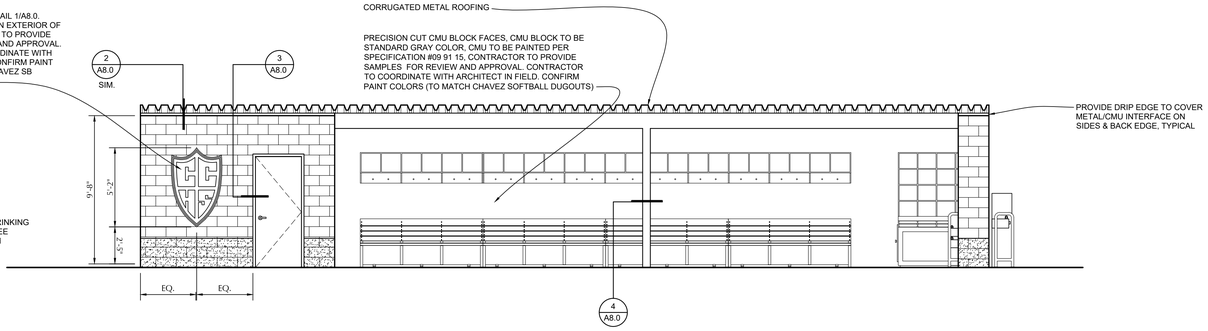

## SECTION 'C-C'



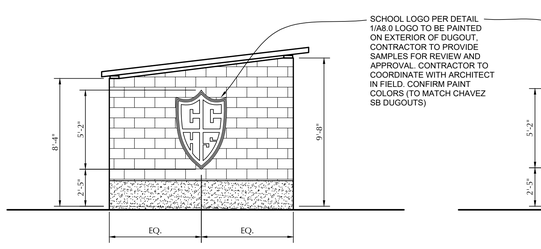

## SECTION 'B-B'



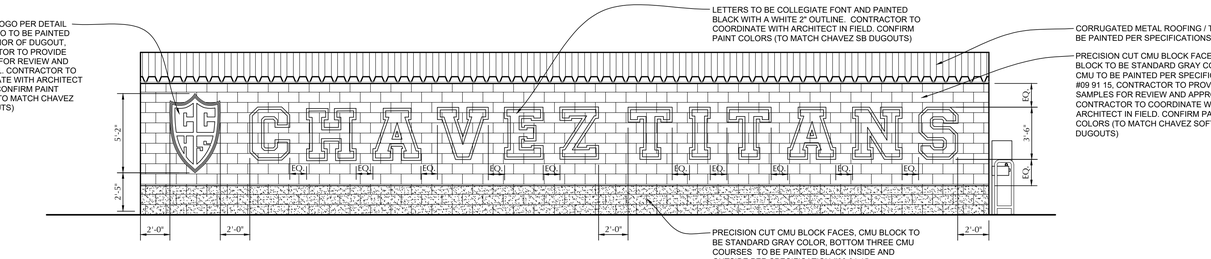

## RIGHT SIDE EXTERIOR ELEVATION




## FRONT EXTERIOR ELEVATION




## LEFT SIDE EXTERIOR ELEVATION

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NOTES:

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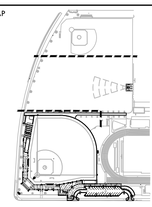

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|---|---|
| WCK | CS |
| DATE ISSUED: 03/27/20 | SCALE: AS SHOWN |

PROJ. NO. 1910900-1211

SHEET NO. **A8.1** OF #

## GENERAL

1. ALL CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2016 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, VOLUMES 1–2 (2015 INTERNATIONAL BUILDING CODE (IBC) WITH 2016 CALIFORNIA AMENDMENTS, INCLUDING SECTIONS AND "A" CHAPTERS PERTAINING TO DSA-SS).

2. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR DIRECTION PRIOR TO PROCEEDING.

3. DETAILS OF CONSTRUCTION ARE TYPICAL, UNLESS NOTED OTHERWISE, AND SHALL APPLY AT ALL LOCATIONS OF SIMILAR CONSTRUCTION. TYPICAL DETAILS ARE NOT CUT AT EVERY APPLICABLE LOCATION ON THE PLANS.

4. DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.

5. SHORING, TEMPORARY BRACING AND OTHER METHODS AND MEANS OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR, AND IS NOT INCLUDED IN THE SCOPE OF THE STRUCTURAL DRAWINGS.

6. THE FOLLOWING NOTES ARE FOR GENERAL MATERIAL GRADES AND PROCEDURES. SEE SPECIFICATIONS AND REMAINDER OF DRAWINGS FOR COMPLETE REQUIREMENTS. ITEMS NOTED IN PLANS, SECTIONS AND DETAILS TAKE PRECEDENCE OVER GENERAL NOTES.

7. LOADS:

A) LIVE:
ROOF: 20 PSF (REDUCIBLE)

B) WIND:
BUILDING RISK CATEGORY II
EXPOSURE C, 110 MPH BASIC WIND SPEED
DIRECTIONAL PROCEDURE
G=0.85, Cf=1.45, Kzt=1.00, Kd=0.85
Kz=0.85, HEIGHT=15 FT, qh=27.6 (STRENGTH), 16.6 PSF (ALLOWABLE STRESS)
Kz=0.90, HEIGHT=15–20 FT, qh=29.2 (STRENGTH), 17.5 (ALLOWABLE STRESS)
Kz=0.94, HEIGHT=20–25 FT, qh=30.5 (STRENGTH), 18.3 (ALLOWABLE STRESS)
Kz=0.98, HEIGHT=25–30 FT, qh=31.8 (STRENGTH), 19.1 (ALLOWABLE STRESS)

C) SEISMIC:
BUILDING RISK CATEGORY II
EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7–10 SECTION 12.8)
LATITUDE: 30.0126, LONGITUDE: −121.2696
SEISMIC DESIGN CATEGORY (SDC) D
SITE CLASS D
$S_S$=0.831, $S_1$=0.317; $F_a$=1.168, $F_v$=1.765;
$S_{MS}$=0.970, $S_{M1}$=0.560; $S_{DS}$=0.647, $S_{D1}$=0.374
IMPORTANCE FACTOR: $I_e$=1.00
R=5 FOR SPECIAL REINFORCED (CMU) SHEAR WALLS
R=3 FOR SIGNS & BILLBOARDS
R=1.5 FOR STEEL POLES
R=1.25 FOR SELF-SUPPORTING STRUCTURES
$C_S$=0.129 (STRENGTH), 0.092 (ALLOWABLE STRESS) FOR CMU SW, ρ=1.3
$C_S$=0.216 (STRENGTH), 0.154 (ALLOWABLE STRESS) FOR SIGNS & BILLBOARDS
$C_S$=0.518 (STRENGTH), 0.370 (ALLOWABLE STRESS) FOR ALL OTHER STRUCTURES
$C_S$=0.129 (STRENGTH), 0.092 (ALLOWABLE STRESS).

E) LOAD COMBINATIONS FOR DESIGN:
CONCRETE: PER CBC SECTION 1605A.2 FOR STRENGTH DESIGN.
FOUNDATIONS: PER CBC SECTION 1605A.3.2 FOR ALLOWABLE STRESS DESIGN.
ALL OTHERS: PER CBC SECTION 1605A.3.1 FOR ALLOWABLE STRESS DESIGN.

## STRUCTURAL ABBREVIATIONS

| | | | |
|---|---|---|---|
| A.B. | ANCHOR BOLT | I.D. | INSIDE DIAMETER |
| ADJ | ADJACENT | IN | INCH |
| APPROX | APPROXIMATE | INT | INTERIOR |
| ARCH | ARCHITECTURAL | | |
| | | LAM | LAMINATE |
| BLDG | BUILDING | LBS | POUNDS |
| BLK | BLOCK | | |
| BLKG | BLOCKING | KSI | KIPS PER SQ. IN. |
| BM | BEAM | | |
| B.N. | BOUNDARY NAILING | MAX | MAXIMUM |
| BOT | BOTTOM | M.B. | MACHINE BOLT |
| BP | BASEPLATE | MECH | MECHANICAL |
| BRG | BEARING | MFR | MANUFACTURER |
| B.S. | BOTH SIDES | MIN | MINIMUM |
| | | MISC | MISCELLANEOUS |
| C TO C | CENTER TO CENTER | | |
| C.B. | CARRIAGE BOLT | <N> | NEW |
| CJ | CONTROL JOINT OR CONSTRUCTION JOINT | N.S. | NEAR SIDE |
| | | N.I.C. | NOT IN CONTRACT |
| C.I. | CAST IRON | NO. | NUMBER |
| CL | CENTERLINE | NTS | NOT TO SCALE |
| CLG | CEILING | | |
| CMU | CONCRETE MASONRY UNIT | O.C. | ON CENTER |
| COL | COLUMN | O.D. | OUTSIDE DIAMETER |
| CONC | CONCRETE | OPP | OPPOSITE |
| CONT | CONTINUOUS | | |
| C.P. | COMPLETE PENETRATION | PERP | PERPENDICULAR |
| CTRD | CENTERED | PL | STEEL PLATE |
| CTSK | COUNTERSINK | P.P. | PARTIAL PENETRATION |
| | | PLYWD | PLYWOOD |
| <D> | DEMO | PSF | POUNDS PER SQ. FT. |
| DBL | DOUBLE | PSI | POUNDS PER SQ. IN. |
| DIA OR ø | DIAMETER | | |
| DIAG | DIAGONAL | RAD | RADIUS |
| DO | DITTO | REINF | REINFORCING |
| DWG | DRAWING | REQD | REQUIRED |
| | | REV | REVISION |
| EA | EACH | R.O. | ROUGH OPENING |
| E.F. | EACH FACE | RWD | REDWOOD |
| ELEC | ELECTRICAL | | |
| ELEV | ELEVATION | S.A.D | SEE ARCH'L DRAWINGS |
| E.N. | EDGE NAILING | S.M.D. | SEE MECH'L DRAWINGS |
| EQ | EQUAL | S.L.D. | SEE LANDSCAPE DRAWINGS |
| E.W. | EACH WAY | S.F. | SQUARE FEET |
| EXIST OR <E> | EXISTING | SIM | SIMILAR |
| EXTER | EXTERIOR | SPEC | SPECIFICATION |
| | | SQ | SQUARE |
| <F> | FUTURE | STD | STANDARD |
| F.D. | FLOOR DRAIN | STGRD | STAGGERED |
| FHWS | FLAT HEAD WOOD SCREW | STIFF | STIFFENER |
| FIN | FINISH | SYM | SYMMETRICAL |
| F.O.B. | FACE OF BLOCK | | |
| F.O.C. | FACE OF CONCRETE | T&G | TONGUE & GROOVE |
| F.O.F. | FACE OF FINISH | THRD | THREADED |
| F.O.S. | FACE OF STUD | T.O.C. | TOP OF CONCRETE |
| F.P. | FULL PENETRATION | T.O.F. | TOP OF FRAMING |
| F.S. | FAR SIDE | T.O.S. | TOP OF STEEL |
| FT | FOOT OR FEET | TS | TUBE STEEL |
| FTG | FOOTING | TYP | TYPICAL |
| GA | GAGE | U.N.O. | UNLESS NOTED OTHERWISE |
| GALV | GALVANIZED | | |
| G.I. | GALVANIZED IRON | VERT | VERTICAL |
| GLB | GLUE-LAMINATED BEAM | | |
| GYP.BD. | GYPSUM BOARD | W/ | WITH |
| | | W/O | WITHOUT |
| HDR | HEADER | WT | WEIGHT OR STEEL WT SECTION |
| HORIZ | HORIZONTAL | | |
| HR | HOUR | WWF | WELDED WIRE FABRIC |
| H.S. | HIGH STRENGTH | | |
| H.S.B. | HIGH STRENGTH BOLT | | |
| HSS | HOLLOW STEEL SECTION | | |

## GEOTECHNICAL & FOUNDATIONS

1. GEOTECHNICAL CRITERIA USED FOR FOUNDATION DESIGN:
A) GEOTECHNICAL REPORT BY WALLACE KUHL & ASSOCIATES INC., STOCKTON, CA. REPORT NO. 12435.01P, DATED 09–11–19.
GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF CONSTRUCTION DOCUMENTS. ALL RECOMMENDATIONS DESCRIBED THEREIN SHALL BE IMPLEMENTED IN PROJECT'S CONSTRUCTION, INCLUDING GRADING, STRIPPING OF EXISTING MATERIAL, LOCATION, TYPE AND INSTALLATION OF FILL MATERIAL, AND COMPACTION.

B) CONTINUOUS & SPREAD FOOTINGS:
MINIMUM WIDTH: 12" (CONTINOUS FOOTINGS) & 24" (SPREAD FOOTINGS)
MINIMUM EMBEDMENT BELOW LOWEST ADJACENT FINISHED GRADE: 18"

C) ALLOWABLE SOIL PRESSURES USED FOR FOUNDATION DESIGN:
DEAD PLUS LIVE LOAD: 2000 PSF
TOTAL LOAD W/ SEISMIC OR WIND: 2667 PSF
ALLOWABLE FRICTION COEFFICIENT: 0.325
ALLOWABLE PASSIVE PRESSURE: 250 PCF

PIER/PILE ALLOWABLE LATERAL PRESSURE: 250 PCF PLUS 1/3 INCREASE FOR SHORT TERM LOADS

IGNORE 1 FT. AT TOP.
MINIMUM PIER SPACING: 3 DIAMETERS

CANTILEVERED RETAINING WALL:
ACTIVE PRESSURE: 50 PCF (LEVEL BACKFILL)
RESTRAINED RETAINING WALL:
AT-REST PRESSURE: 70 PCF (LEVEL BACKFILL)
90 PCF (2H:1V BACKFILL)
PASSIVE PRESSURE: 250 PCF

D) ENGINEERED FILL AND COMPACTION:
PER GEOTECHNICAL REPORT RECOMMENDATIONS.

## STRUCTURAL CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO CHAPTER 19A OF THE 2016 CALIFORNIA BUILDING CODE (CBC) AND 2014 ACI STANDARD 318 AND ASTM C94, SPECIFICATION FOR READY-MIX CONCRETE. CEMENT SHALL BE PORTLAND CEMENT TYPE II AND SHALL COMPLY WITH ASTM C150. CALCIUM CHLORIDE SHALL NOT BE USED. COARSE AND FINE AGGREGATE SHALL COMPLY WITH ASTM C33. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING CONCRETE.

2. ALL STRUCTURAL CONCRETE MIXES SHALL HAVE MIN. FIVE (5) SACKS CEMENT PER CU. YARD AND MAX. WATER–TO–CEMENT RATIO OF 0.60. CONCRETE MIX PROPERTIES SHALL BE AS FOLLOWS:

A) SLABS–ON–GRADE & CONCRETE WALLS:
28–DAY COMP. STRENGTH: 3,000 PSI
LARGE AGGREGATE SIZE: 1/2" – 1"
MAX. SLUMP: 4"
DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
EXPOSURE CLASS: C0, S1 (ACI 318 TABLE 19.3.1.1)

B) FOOTINGS & GRADE BEAMS:
28–DAY COMP. STRENGTH: 3,000 PSI
LARGE AGGREGATE SIZE: 1" – 1–1/2"
MAX. SLUMP: 4"
DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
EXPOSURE CLASS: C1, S0 (ACI 318 TABLE 19.3.1.1)

C) C.I.D.H. PIER FOOTINGS:
28–DAY COMP. STRENGTH: 3,000 PSI
LARGE AGGREGATE SIZE: 1/2" – 1"
MAX. SLUMP: 4"
DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
EXPOSURE CLASS: C1, S0 (ACI 318 TABLE 19.3.1.1)

C) NON–STRUCTURAL CONCRETE WALKS ON GRADE:
28–DAY COMP. STRENGTH: 2,500 PSI
LARGE AGGREGATE SIZE: 3/8" – 3/4"
MAX. SLUMP: 4"
DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)

3. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GR. 60 U.N.O. ALTERNATIVELY, #4 AND SMALLER BARS MAY CONFORM TO ASTM A615, GR. 40. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

4. GROUT SHALL BE NON–SHRINK GROUT U.N.O. CONFORMING TO ASTM C1107. GROUT SHALL HAVE A 7–DAY COMPRESSIVE STRENGTH 5,000 PSI MIN. GROUT SHALL BE MASTER BUILDERS "MASTERFLOW 928", SIKA SIKAGROUT 212, OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SURFACE PREPARATION RECOMMENDATIONS.

5. BONDING AGENT SHALL BE MASTER BUILDERS "MASTEREMACO ADH 326", SIKA ARMATEC 110 EPOCEM, OR APPROVED EQUAL, AND SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

6. CURING COMPOUND SHALL BE APPROVED BY ENGINEER, AND APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

7. CONSTRUCTION JOINTS SHALL BE ROUGHENED TO FULL 1/4" AMPLITUDE (ICRI CSP 9) WITH BUSH HAMMER OR OTHER APPROVED METHOD. SURFACES SHALL BE CLEANED OF DUST AND DEBRIS IMMEDIATELY PRIOR TO PLACEMENT OF NEWER CONCRETE.

8. REINFORCING STEEL SHALL BE CONTINUOUS WHERE POSSIBLE. SPLICE WITH CONTACT LAP–SPLICES. STAGGER ALL SPLICES. SPLICE LENGTHS SHALL BE 57 BAR–DIAMETERS MINIMUM. WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL SQUARES, BUT NOT LESS THAN 12".

9. EXTEND HORIZONTAL BARS IN FOUNDATIONS AND WALLS INTO INTERSECTING FOUNDATIONS AND WALLS WITH BEND AND 30 BAR DIAMETER EXTENSION, BUT NOT LESS THAN 24" EXTENSION.

10. WELDING OF REINFORCING SHALL NOT BE ALLOWED.

11. SEE STRUCTURAL STEEL NOTES FOR ANCHOR BOLTS CAST IN CONCRETE.

12. ANCHOR BOLT PROJECTION SHALL BE ADEQUATE FOR FULL ENGAGEMENT OF PLATES, WASHERS, NUTS, ETC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE OR GROUT. ANCHOR BOLTS SHALL BE FIRMLY SECURED TO FORMS TO PREVENT THEIR MOVEMENT DURING CONCRETE PLACEMENT. WET–SETTING OF ANCHOR BOLTS IS NOT ALLOWED.

13. MAINTAIN THE FOLLOWING MINIMUM CONCRETE COVER FOR REBAR:
WHERE CONC. IS PLACED AGAINST EARTH = 3"
WHERE CONCRETE IS FORMED AND EXPOSED TO EARTH OR WEATHER = 2"
WHERE CONCRETE IS NOT EXPOSED TO EARTH OR WEATHER = 1–1/2"
SLABS ON GRADE = 3/4"

14. WHERE SIDES OF FOUNDATIONS (FOOTINGS, GRADE BEAMS OR WALLS) ARE CAST AGAINST EARTH WITHOUT FORMS, FOUNDATION SHALL BE WIDENED 1" AT EACH SUCH SURFACE.

15. EXCAVATION FOR FOOTINGS BELOW DEPTHS SHOWN ON DRAWINGS SHALL BE BACKFILLED WITH CONCRETE.

16. NOTIFY ENGINEER, PROJECT INSPECTOR, AND DSA–SS AT LEAST 48 HOURS BEFORE ANY CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT. SEE ALSO SPECIAL INSPECTION REQUIREMENTS.

17. CONTRACTOR SHALL, PRIOR TO EXCAVATION, VERIFY FOOTING CONDITIONS AND FINISH GRADE/PAVING ELEVATIONS AT PERIMETER OF BUILDING. VERIFY THAT FOOTINGS HAVE SPECIFIED MINIMUM DEPTH BELOW ADJACENT GRADE AND THAT FOOTINGS DO NOT "DAYLIGHT" OR OTHERWISE INTERFERE WITH INTENDED EXTERIOR CONDITIONS. NOTIFY ENGINEER IF SUCH INTERFERENCE EXISTS PRIOR TO EXCAVATION.

18. IF LOADING OF CONCRETE ELEMENTS PRIOR TO 28–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTAL OF CONCRETE MIX DESIGNS IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD–CURED IN CONDITIONS MATCHING SUBJECT CONCRETE ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. LOADING OF CONCRETE ELEMENTS BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

## CONCRETE MASONRY

1. ALL CONCRETE UNIT MASONRY WORK SHALL CONFORM TO CHAPTER 21A OF THE 2016 CALIFORNIA BUILDING CODE (CBC) AND 2013 EDITIONS OF TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6.

2. ALL BLOCK UNITS SHALL BE NORMAL OR MEDIUM WEIGHT UNITS, WITH MINIMUM COMPRESSIVE STRENGTH OF 2,800 PSI, CONFORMING TO ASTM C90. MORTAR SHALL BE TYPE "S", CONFORMING TO ASTM C270. GROUT SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, CONFORMING TO ASTM C476.

3. DESIGN OF MASONRY IS BASED ON COMPRESSIVE STRENGTH OF MASONRY f'm OF 2,000 PSI AND FULL ALLOWABLE STRESSES PER CBC. SPECIAL INSPECTION IS REQUIRED. SEE INSPECTION NOTES FOR ADDITIONAL REQUIREMENTS.

4. f'm COMPLIANCE SHALL BE VERIFIED BY THE "UNIT STRENGTH METHOD" PER TMS 602/ACI 530.1/ASCE 6 ARTICLE 1.4B.2 AND CBC SECTION 2105A.3 (DSA–SS). TEST UNITS PRIOR TO CONSTRUCTION. UNITS AND GROUT SHALL BE TESTED DURING CONSTRUCTION FOR EVERY 5,000 SQ. FEET OF WALL AREA. VERIFY MORTAR TYPE.

5. REINFORCING SHALL BE AS SPECIFIED FOR CONCRETE.

6. LAP ALL BARS 48 BAR–DIAMETERS, BUT NOT LESS THAN 24" AT ALL SPLICES. PROVIDE BEND PLUS 24" EXTENSION ON HORIZONTAL BARS AT ALL WALL INTERSECTIONS.

7. SEE STEEL NOTES FOR BOLTS EMBEDDED IN MASONRY. ALL ANCHOR BOLTS THROUGH FACE SHELLS OF MASONRY UNITS SHALL BE GROUTED IN PLACE WITH AT LEAST 1" OF GROUT BETWEEN BOLT AND SHELL, ALL AROUND BOLT.

8. REINFORCING BARS AND TIES SHALL BE HELD AT LEAST 1/2" CLEAR FROM MASONRY UNIT FACE SHELLS, EXCEPT BARS MAY BEAR ON CROSS WEBS OF BOND BEAM UNITS. PARALLEL BARS SHALL BE HELD AT LEAST 1" CLEAR BETWEEN, EXCEPT AT CONTACT LAP SPLICES.

9. UNITS SHALL BE LAYED IN RUNNING BOND. USE OF OPEN–END UNITS THROUGHOUT IS ENCOURAGED. USE OF SPEED–BLOCK (NON–GROUTED OPEN–END UNITS) IS NOT ALLOWED. IF OPEN–END UNITS ARE NOT USED, ALL LINTEL HEAD JOINTS SHALL BE FILLED SOLID WITH MORTAR.

10. ALL STARTER (BOTTOM) COURSE UNITS SHALL BE INVERTED BOND–BEAM UNITS, TYPICAL THROUGHOUT. TOPS OF FOOTINGS RECEIVING MASONRY UNITS AND GROUT SHALL BE ROUGHENED TO FULL 1/8" AMPLITUDE (1/4" PEAK–TO–VALLEY), FOR FULL WIDTH OF UNITS.

11. GROUT ALL CELLS SOLID UNLESS NOTED OTHERWISE ON DRAWINGS. NO ITEMS OTHER THAN REBAR, STEEL CONDUIT AND ANCHOR BOLTS SHALL BE EMBEDDED IN CMU. ALL HOLES CREATED FOR EXTRACTION OF TESTING/SAMPLE CORES SHALL BE FILLED SOLID WITH APPROVED NON–SHRINK GROUT AND FINISHED TO MATCH TEXTURE OF ADJACENT FACE SHELL.

12. GROUTING SHALL BE DONE BY THE LOW–LIFT METHOD ONLY (UNITS LAID UP 4'–0" HIGH MAXIMUM AT A TIME, AND 4'–0" HIGH MAXIMUM LIFTS). ANY REQUESTS TO USE HIGH–LIFT GROUTING METHOD SHALL BE MADE AT LEAST FOUR (4) WEEKS PRIOR TO LAYING UP OF UNITS, AND WILL BE CONSIDERED A CHANGE TO THE DRAWINGS, REQUIRING DSA–APPROVAL. ADDITIONAL DSA REQUIREMENTS FOR HIGH–LIFT METHOD WILL BE ISSUED AS A CHANGE ORDER, AND SUBMITTED TO DSA FOR APPROVAL.

13. IF LOADING OF CONCRETE MASONRY ELEMENTS PRIOR TO 28–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTAL OF GROUT AND/OR MORTAR MIX DESIGNS IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS TO BE FIELD–CURED IN CONDITIONS MATCHING SUBJECT MASONRY ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. LOADING OF MASONRY ELEMENTS BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

## STRUCTURAL STEEL

1. ALL STEEL AND MISC. IRON SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH A.I.S.C. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

2. STEEL MATERIAL SHALL BE AS FOLLOWS:
PLATES, CHANNELS & ANGLES: ASTM A36 UNLESS NOTED OTHERWISE
RECTANGULAR TUBES (TS OR HSS): ASTM A500 GRADE B, Fy=46 KSI
PIPES (STD., X–STRG.): ASTM A53 GRADE B, Fy=35 KSI
STEEL POSTS SUPPORTING NETTING & METAL CHAIN–LINK FABRIC UP TO 10 FT. HIGH SHALL BE GALVANIZED PIPES COMPLYING WITH ASTM F1083, REGULAR GRADE 30 KSI YIELD STRENGTH, SCHEDULE 40. HOT–DIP ZINC GALVANIZING SHALL COMPLY WITH ASTM A123, WITH MIN. OF 1.8 OZ./SQ. FT. OUTSIDE AND INSIDE.
STEEL POSTS SUPPORTING NETTING & METAL CHAIN–LINK FABRIC OVER 10 FT. HIGH SHALL BE GALVANIZED PIPES PER ASTM A53 (GR. B, Fy=35 KSI) OR ROUND TUBES PER ASTM A500 (GR. B., Fy=42 KSI) HOT–DIP ZINC GALVANIZED PER ASTM A123, WITH MIN. OF 1.8 OZ./SQ. FT. OUTSIDE AND INSIDE.
HEADED STUDS: ASTM A108 TYPE B, Fy=51 KSI
MACHINE BOLTS (M.B.): ASTM A307 GRADE A, A563 FOR NUTS, F844 FOR WASHERS
ANCHOR BOLTS/RODS (A.B.): ASTM F1554 GRADE 36, A307 GRADE C, OR A36 THREADED RODS: ASTM A307 OR A36 (MAY BE THREADED FOR ENTIRE LENGTH)
WELDING ELECTRODES: E70XX

3. UNLESS NOTED OTHERWISE, ANCHOR BOLTS, MACHINE BOLTS AND THREADED ANCHOR RODS THROUGH STEEL AND EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM F1554, A307 OR A36. ANCHOR BOLTS/RODS SHALL HAVE A STANDARD BOLT HEAD OR TIGHTENED DOUBLE NUTS. THREADED RODS SHALL HAVE TIGHTENED DOUBLE NUTS AT END. ANCHOR BOLT PROJECTION SHALL BE ADEQUATE FOR FULL ENGAGEMENT OF PLATES, WASHERS, NUTS, ETC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE OR GROUT.

4. ALL WELDING ON STRUCTURAL STEEL SHALL CONFORM WITH AWS D1.1 CODE AND SHALL BE PRE–QUALIFIED WELDS CONFORMING TO AWS D1.1. UNLESS SPECIFICALLY INDICATED AS FIELD WELDING, ALL WELDS MAY BE PERFORMED IN SHOP OR FIELD.

5. HEADED STUDS SHALL BE WELDED WITH AUTOMATICALLY TIMED STUD WELDING EQUIPMENT. STUDS SHALL NOT BE FILLET– OR BUTT–WELDED UNLESS SPECIFICALLY SHOWN AS SUCH ON DETAILS.

6. ALL COMPLETE AND FULL PENETRATION GROOVE WELDS (DESIGNATED BY "C.P." OR "F.P.") SHALL USE BACK–UP PLATES UNLESS NOTED OTHERWISE. ALL PARTIAL–PENETRATION WELDS (DESIGNATED BY "P.P.") SHALL HAVE LARGEST EFFECTIVE THROAT ALLOWED BY AWS. GROOVE WELDS NOT NOTED WITH "C.P.", "F.P." OR "P.P" SHALL BE COMPLETE PENETRATION WELDS.

7. WELDING PROCEDURE SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT AND THE TEST AND INSPECTION AGENCY'S WELDING INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO START OF FABRICATION.

8. MINIMUM SPACING OF ALL BOLTS, 7/8"ø AND SMALLER IN STEEL SHALL BE 3" o.c. AND THE MINIMUM EDGE DISTANCE FROM CENTERLINE OF HOLE TO EDGE OF PLATE OR MEMBER SHALL BE 1–1/2", UNLESS NOTED OTHERWISE ON DRAWINGS. WHERE BOLTS ARE INSTALLED THROUGH FLANGES OF "W" OR SIMILAR SHAPES, THE BOLT GAGE SHALL BE AS RECOMMENDED BY AISC.

9. HOLES FOR BOLTS IN STEEL SHALL BE 1/16" MAXIMUM LARGER IN DIAMETER THAN BOLTS. HOLES FOR ANCHOR BOLTS SHALL NOT BE MORE THAN 5/16" LARGER FOR A.B.'S UP TO 1"ø, AND NOT MORE THAN 1/2" LARGER FOR A.B.'S OVER 1"ø. ALL HOLES SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES IS NOT ALLOWED, WHETHER IN FIELD OR SHOP.

10. ALL STRUCTURAL STEEL IN EXTERIOR SPACES OR EXPOSED TO VIEW IN INTERIOR SPACES SHALL BE PAINTED WITH TWO (2) COATS OF ALKYD RED OXIDE PRIMER, COMPLYING WITH SSPC–PAINT 25 OR U.S. FEDERAL SPEC TT–P–645, WITH MIN. DRY THICKNESS OF 2 MILS. SEE ARCHITECTURAL SPECS FOR FINISH PAINTING. STRUCTURAL STEEL IN ENCLOSED SPACES AND NOT EXPOSED TO WEATHER NEED NOT BE PAINTED OR PRIMED UNLESS NOTED OTHERWISE. STEEL TO BE EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.

11. ALL NON–PAINTED STEEL FASTENERS EXPOSED TO WEATHER OR IN UNENCLOSED SPACES SHALL BE HOT–DIPPED GALVANIZED, UNLESS NOTED OTHERWISE. GALVANIZED BOLTS AND NUTS SHALL BE PROVIDED BY SAME MANUFACTURER.

12. ALL STRUCTURAL STEEL SPECIFIED ON DRAWINGS TO BE GALVANIZED SHALL BE HOT–DIPPED ZINC GALVANIZED WITH MIN. 1.8 OZ./SQ. FT. ON ALL SURFACES. GALVANIZING SHALL BE TOUCHED UP AT FIELD–WELDED CONNECTIONS, FIELD–DRILLED HOLES, OR FIELD–CUT EDGES WITH A HIGH–ZINC DUST–CONTENT PAINT.

## POST-INSTALLED ANCHORS & DOWELS

*****NOTE: POST–INSTALLED ANCHORS PROVIDED IN THE EVENT THAT REBAR OR CAST–IN–PLACE ANCHOR BOLTS ARE MISSED OR INCORRECTLY PLACED, CONTRACTOR SHALL NOTIFY PROJECT INSPECTOR & SEOR ENGINEER FOR DIRECTIONS PRIOR TO PROCEEDING WITH INSTALLATION.**

A. GENERAL – APPLICABLE TO ALL ANCHORS:
1. ANCHORS SHALL BE INSTALLED ONLY WHERE SPECIFIED ON DRAWINGS, PER MANUFACTURER'S INSTRUCTIONS, USING MANUFACTURER'S EQUIPMENT, WHERE APPLICABLE. INSTALLER SHALL HAVE ON SITE A COPY OF MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ICC–ES OR IAPMO–UES REPORT.

2. ANCHORS SHALL BE INSTALLED ONLY INTO CURED CONCRETE OR MASONRY GROUT THAT HAS ATTAINED THE MIN. DESIGN COMPRESSIVE STRENGTH AT MIN. 28 DAY AGE, EXCEPT AS NOTED BELOW FOR ADHESIVE ANCHORS. IF INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY ELEMENTS PRIOR TO 28–DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD–CURED IN CONDITIONS MATCHING SUBJECT CONCRETE OR MASONRY ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY GROUT BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

3. WHERE POST–INSTALLED ANCHORS ARE USED TO MITIGATE OMITTED OR MISPLACED CAST–IN–PLACE ANCHORS, ADDED SPECIAL INSPECTION AND TESTING COSTS ASSOCIATED WITH THE POST–INSTALLED ANCHORS WILL BE PAID FOR BY THE DISTRICT, HOWEVER, SUCH COSTS WILL BE BACK–CHARGED TO THE CONTRACTOR.

4. PRIOR TO DRILLING HOLES FOR ANY POST–INSTALLED ANCHORS INTO NEW OR EXISTING CONCRETE OR MASONRY, ALL REINFORCING BARS IN AREA OF NEW ANCHORAGE HOLES SHALL BE LOCATED WITH PACHOMETER OR OTHER SUITABLE DEVICE AND CLEARLY MARKED IN THE FIELD. NEW ANCHORS SHALL BE INSTALLED NOT LESS THAN 1" CLEAR FROM REINFORCING. WHERE REINFORCING BARS CANNOT BE LOCATED, CARE SHALL BE TAKEN WHILE DRILLING HOLES SO THAT REINFORCING BARS ARE NOT CUT OR DAMAGED AND HOLES SHALL BE REPAIRED & RELOCATED AS REQUIRED. USE OF DRILLS WITH GROUND FAULT INTERRUPTERS (GFI) IS RECOMMENDED.

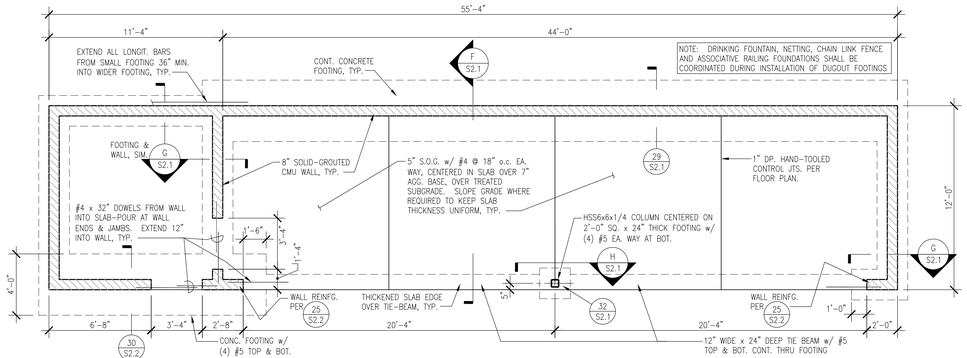
5. PROVIDE TESTING AND INSPECTIONS OF ANCHOR INSTALLATIONS PER TESTING AND SPECIAL INSPECTION NOTES, THIS SHEET.

6. ANCHORS OTHER THAN THOSE SPECIFIED BELOW MAY BE USED ONLY WHEN CURRENT ICC–ES OR IAPMO–UES REPORT FOR SUCH IS SUBMITTED FOR REVIEW AND APPROVAL IN WRITING. ANCHORS SHALL NOT BE INSTALLED UNTIL ANCHORS ARE APPROVED BY STRUCTURAL ENGINEER AND DSA, AND TEST LOADS ARE DETERMINED AND ISSUED.

7. ANCHORS IN CONTACT WITH PRESERVATIVE–TREATED AND FIRE–RETARDANT–TREATED WOOD SHALL BE OF HOT–DIPPED ZINC–COATED GALVANIZED STEEL OR STAINLESS STEEL. ANCHORS EXPOSED TO WEATHER OR REQUIRED TO BE CORROSION RESISTANT SHALL BE OF HOT–DIPPED ZINC–COATED GALVANIZED STEEL OR STAINLESS STEEL.

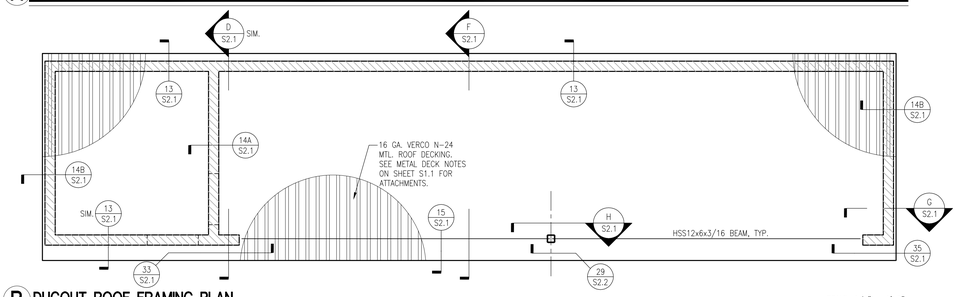
B. EXPANSION ANCHORS:
1. EXPANSION ANCHORS SHALL BE WEDGE TYPE ANCHORS ONLY AND SHALL HAVE ICC–ES OR IAPMO–UES APPROVAL, INCLUDING APPROVAL FOR RESISTANCE TO SEISMIC AND WIND LOADS, PASSING ICC–ES CRITERIA AC193 (CONCRETE) & AC01 (MASONRY). USE ONE OF THE FOLLOWING ICC–ES OR IAPMO–UES APPROVED SYSTEMS:
CONCRETE:
a) HILTI KWIK BOLT TZ (ESR–1917). (TYP. ANCHOR SPECIFIED U.N.O.)
b) SIMPSON STRONG–BOLT 2 ANCHORS (ESR–3037),
c) DEWALT/POWERS POWER–STUD+ SD2, SD4 & SD6 ANCHORS (ESR–2502).
MASONRY:
a) HILTI KWIK BOLT 3 (ESR–1385), (TYP. ANCHOR SPECIFIED U.N.O.)
b) SIMPSON WEDGE–ALL ANCHORS (ESR–1396),
c) DEWALT/POWERS POWER–STUD+ SD1 (ESR–2966)
d) ITW RED HEAD TRUBOLT+ WEDGE ANCHORS (ESR–4058).
NOTE: OTHER EXPANSION ANCHORS MAY BE USED ONLY WHEN ICC–ES OR IAPMO–UES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER AND DSA AND TEST LOADS ARE DETERMINED AND ISSUED.

2. EXPANSION ANCHORS SHALL HAVE EMBEDMENT NOT LESS THAN EIGHT (8) ANCHOR DIAM



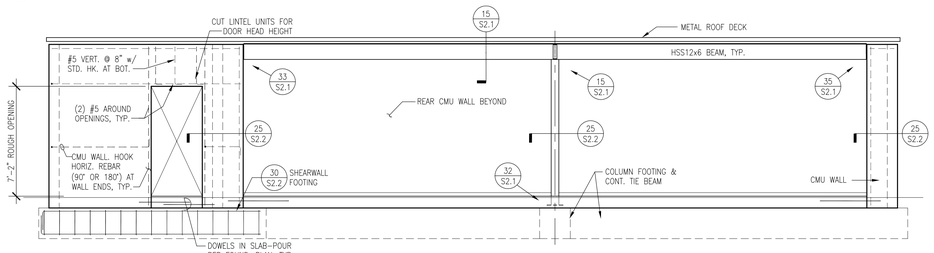

## A DUGOUT FOUNDATION PLAN - FIRST BASE LINE

SCALE: 1/4" = 1' 0"



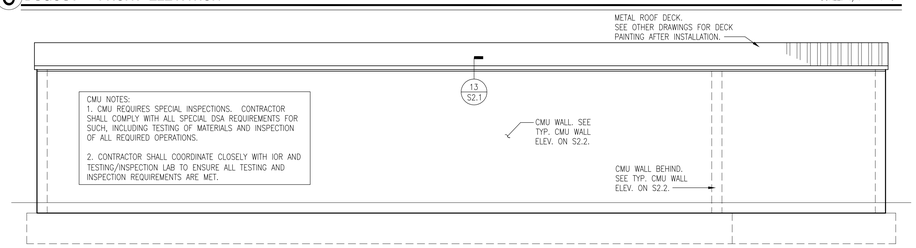

## B DUGOUT ROOF FRAMING PLAN

SCALE: 1/4" = 1' 0"



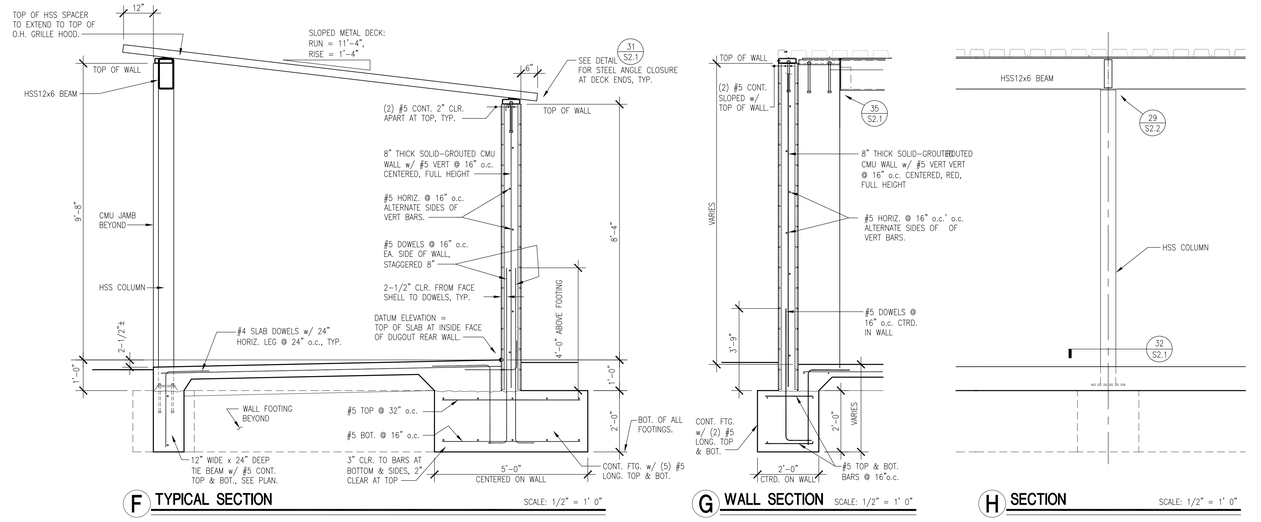

## C DUGOUT - FRONT ELEVATION

SCALE: 1/4" = 1' 0"




## E DUGOUT - REAR ELEVATION

SCALE: 1/4" = 1' 0"




## F TYPICAL SECTION

SCALE: 1/2" = 1' 0"



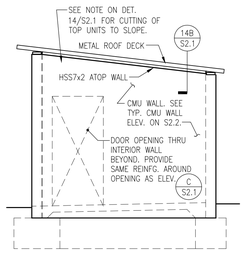

## G WALL SECTION

SCALE: 1/2" = 1' 0"



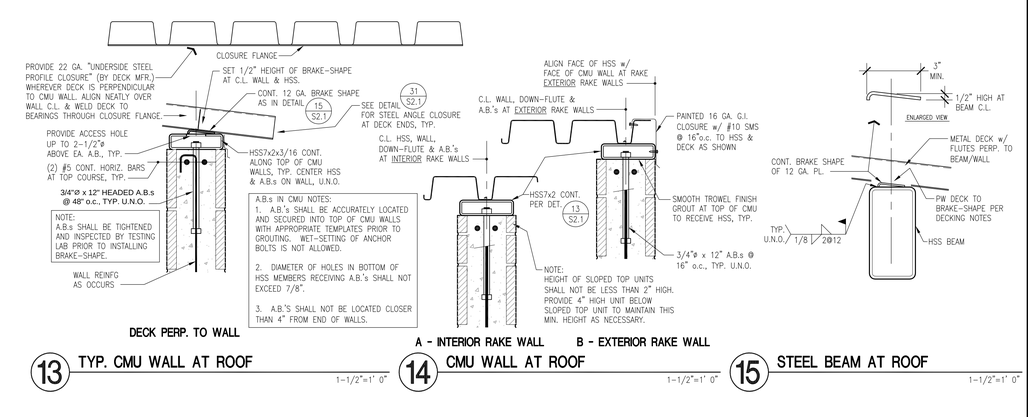

## H SECTION

SCALE: 1/2" = 1' 0"




## D END ELEVATION

SCALE: 1/4" = 1' 0"




## 13 TYP. CMU WALL AT ROOF

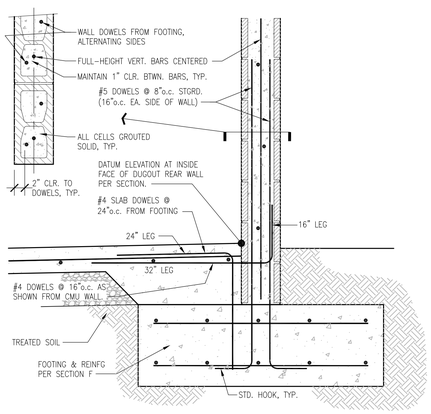
1-1/2"=1' 0"

## 14 CMU WALL AT ROOF

1-1/2"=1' 0"

## 15 STEEL BEAM AT ROOF

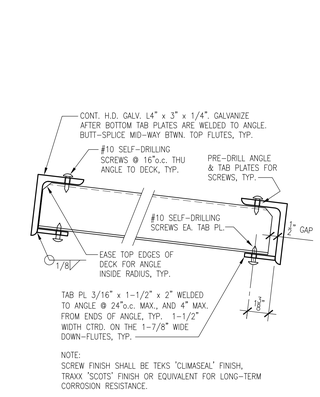
1-1/2"=1' 0"




## 29 DUGOUT WALL & FOOTING

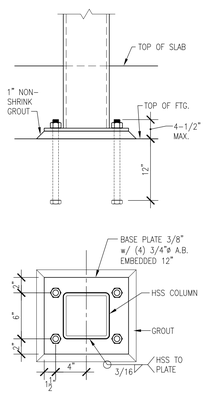
SIM. AT DUGOUT OPENING

1"=1' 0"



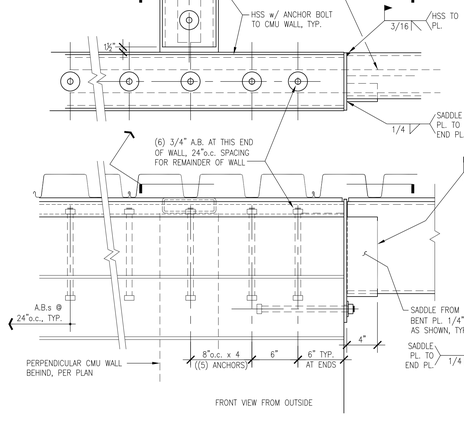

## 31 TYP. DECK CLOSURE AT ENDS

3"=1' 0"




## 32 BASE PLATE AT TS COLUMN

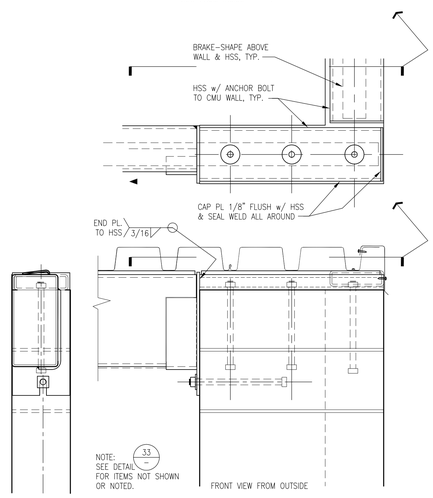
1-1/2"=1' 0"




## 33 BEAM CONN. TO CMU WALL TO ROOF

AT END WALL CORNER

1-1/2"=1' 0"




## 35 BEAM CONN. TO CMU WALL TO ROOF

AT STORAGE WALL CORNER

1-1/2"=1' 0"



DRAWING NAME: P:\Verde Design\M19-033 Chavez HS Athletics\Dwgs\Structural\S2-1 with STORAGE on Left.dwg
PLOT DATE: 03-27-20 PLOTTED BY: jose

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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CONSULTANT

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SAN JOSE, CALIFORNIA 95125 FAX 408-267-7919
WWW.AKHSE.COM AKH JOB M19-033

REGISTERED PROFESSIONAL ENGINEER
No. 53260
EXP. 3/31/21
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP

SHEET TITLE
ATHLETICS
DUGOUT - STOR. ON LEFT
PLANS, SECTIONS, ELEVATIONS & DETAILS

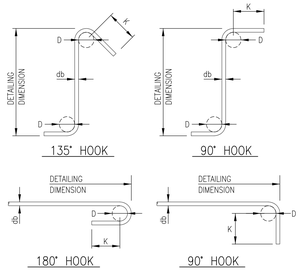
PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

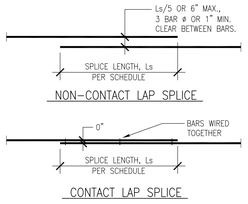
| NO. | REVISIONS | DATE |
|---|---|---|
| | | |

DRAWN BY JJQ, TDH
CHECKED BY TDH
DATE ISSUED 03/27/20
SCALE AS NOTED
PROJ. NO. 1910900-1211
SHEET NO. S2.1 OF #




| STANDARD HOOKS | | | |
|---|---|---|---|
| BAR SIZE | "D" IN | 180° HOOKS "K" | 90° HOOKS "K" |
| #3 | 2-1/4" | 2-1/2" | 4-1/2" |
| #4 | 3" | 2-1/2" | 6" |
| #5 | 3-3/4" | 2-1/2" | 7-1/2" |
| #6 | 4-1/2" | 3" | 9" |
| #7 | 5-1/4" | 3-1/2" | 10-1/2" |
| #8 | 6" | 4" | 12" |

| STIRRUP AND TIE HOOKS | | | | |
|---|---|---|---|---|
| BAR SIZE | "D" IN | 180° HOOKS "K" | 135° HOOKS "K" | 90° HOOKS "K" |
| #3 | 1-1/2" | 2-1/2" | 3" | 3" |
| #4 | 2" | 2-1/2" | 3" | 3" |
| #5 | 2-1/2" | 2-1/2" | 3-3/4" | 3-3/4" |
| #6 | 4-1/2" | 3" | 4-1/2" | 9" |

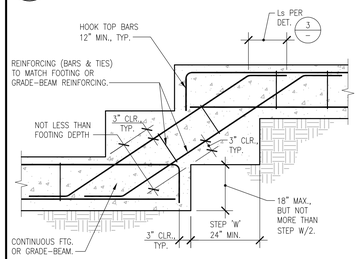



| REBAR LAP SPLICE LENGTHS (Ls) | | | |
|---|---|---|---|
| BAR SIZE | HARD ROCK (REG. WT.) CONCRETE CLASS B SPLICE TYP., U.N.O. | TOP BARS (SEE NOTE 1) | GROUTED MASONRY (CMU) |
| #3 | 16" | 19" | 27" |
| #4 | 19" | 25" | 36" |
| #5 | 36" | 47" | 45" |
| #6 | 43" | 56" | 54" |
| #7 | 63" | 81" | 63" |
| #8 | 72" | 93" | 72" |
| #9 | 81" | 105" | – |
| #10 | 90" | 116" | – |
| #11 | 98" | 128" | – |

NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS, IN SAME POUR AS BARS (AS IN DEEP BEAM OR FOOTING POURS, ETC.).
2. STAGGER LAPS IN SUCCESIVE PARALLEL BARS IN SLABS AND WALLS A DISTANCE EQUAL TO THE REQUIRED LAP SPLICE LENGTH, BUT NOT LESS THAN 24" (ALONG LENGTH OF BARS).
3. ALL LAP SPLICES SHALL BE CONTACT OR NON-CONTACT TYPE, AS SHOWN.
4. INCREASE SCHEDULED LAP LENGTHS BY 30% WHEN IN LIGHT WEIGHT CONCRETE.

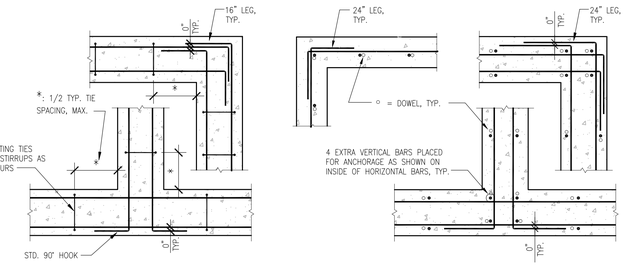
## 1 TYPICAL REBAR BENDS AND HOOKS

NO SCALE



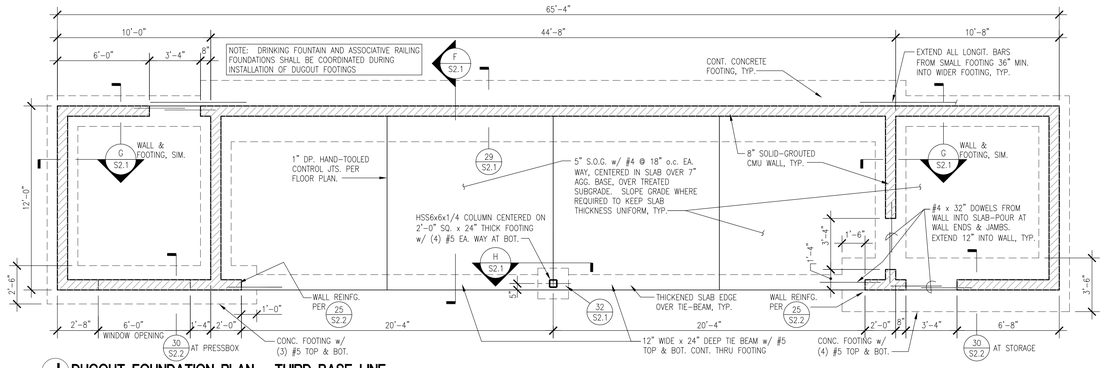

## 3 TYPICAL REBAR LAP SPLICES

NO SCALE



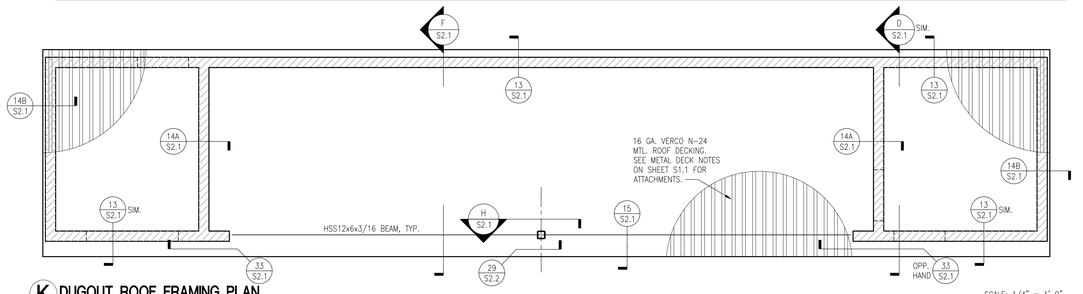

## J DUGOUT FOUNDATION PLAN - THIRD BASE LINE

SCALE: 1/4" = 1' 0"



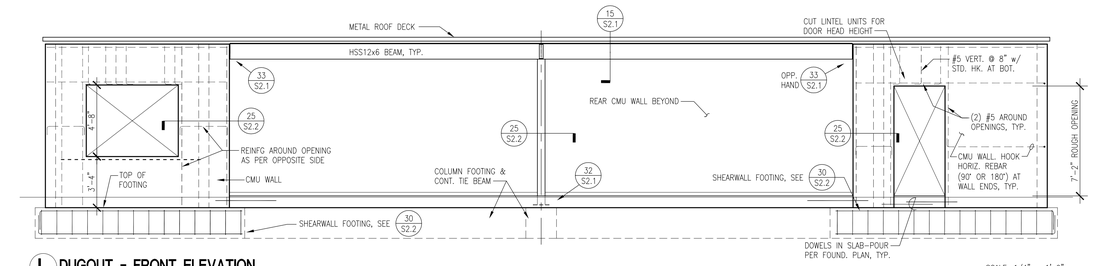

## K DUGOUT ROOF FRAMING PLAN

SCALE: 1/4" = 1' 0"



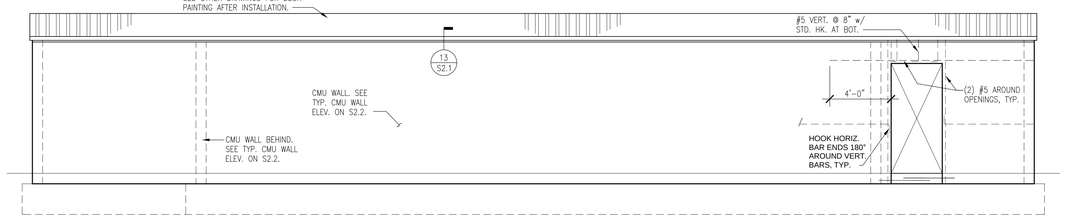

## L DUGOUT - FRONT ELEVATION

SCALE: 1/4" = 1' 0"



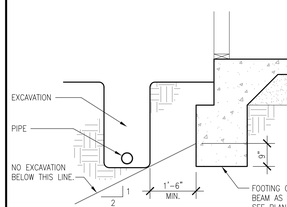

## M DUGOUT - REAR ELEVATION

SCALE: 1/4" = 1' 0"




## 5 TYPICAL FOOTING STEPS

NO SCALE

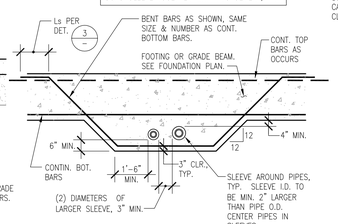



PARALLEL TO FOOTING

## 6 TYP. FOOTING INTERSECTION REBAR

3/4" = 1'-0"

NOTE: AT EXIST. PIPES, INSTALL SCHEDULE 40 PVC PIPE SLEEVE OVER EXIST. PIPE. CUT THE PIPE SLEEVE IN HALF IN ORDER TO INSTALL & BOND SLEEVE TOGETHER WITH PVC CEMENT, TYP.



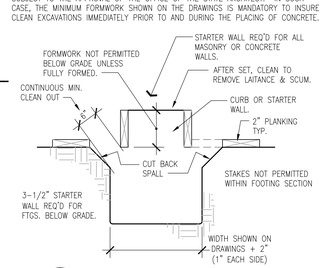

PERPENDICULAR TO FOOTING

## 7 TYP. WALL INTERSECTION REBAR

3/4" = 1'-0"

FOUNDATIONS – MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED)

FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ENGINEER, SUBJECT TO THE APPROVAL OF THE OFFICE OF THE STATE ARCHITECT. IN SUCH CASE, THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.




## 8 TYP. PIPES AND EXCAVATIONS NEAR FOOTINGS

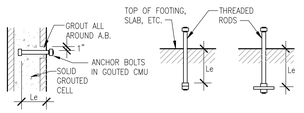
NO SCALE

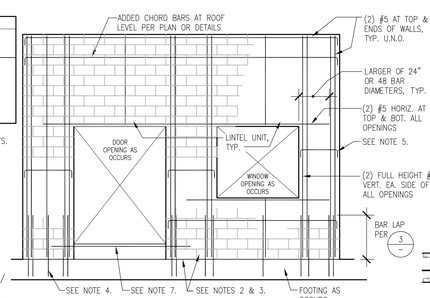
## 11 TYP. FOOTING TRENCHING & FORMING

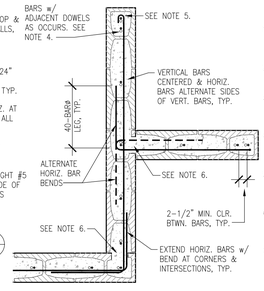
NO SCALE

| MINIMUM ANCHOR BOLT EMBEDMENT, Le (1) | | | |
|---|---|---|---|
| ANCHOR BOLT DIAMETER (ø) | IN TOP OF CONCRETE & MASONRY (CMU) COLUMNS & PILASTERS | IN CONCRETE FOOTINGS, SLABS & WALLS | IN MASONRY (CMU) WALLS |
| 3/8" | 6" | 4" | 4" |
| 1/2" | 7" | 5" | 5-1/2" |
| 5/8" | 8" | 5" | 5-1/2" |
| 3/4" | 10" | 6" | 5-1/2" |
| 7/8" | 10" | 7" | 8" (2) |
| 1" – 1-1/4" | 12" | 10" | – |

FOOTNOTES:
(1) MIN. EMBEDMENT, U.N.O. SEE OTHER DETAILS FOR HOLDOWNS & SPECIAL BOLTS.
(2) 12" WALLS ONLY. NOT ALLOWED IN 8" WALLS.




TYP. WALL INTERSECTION PLAN

1. USE DOUBLE-OPEN-END UNITS, TYP. USE SINGLE-OPEN-END UNITS AT WALL ENDS, CORNERS AND JAMBS OF OPENINGS.
2. BOTTOM COURSE SHALL BE INVERTED BOND BEAM UNITS, TYP. U.N.O.
3. ROUGHEN TOP OF FOOTING TO FULL 1/8" AMPLITUDE BELOW FULL WIDTH OF MASONRY UNITS, TYP.
4. PROVIDE FOOTING DOWELS TO MATCH SIZE & LOCATION OF EVERY VERTICAL WALL BAR, TYP.
5. PROVIDE 180° STD. HOOK AT ENDS OF ALL HORIZONTAL BARS NOT AT WALL INTERSECTIONS.
6. BREAK OUT FACE-SHELL AT INTERSECTIONS TO ALLOW HORIZONTAL BARS & GROUT TO PASS FREELY THROUGH.
7. PROVIDE SLAB NOSE BARS AT DOOR OPENINGS IN EXTERIOR WALLS PER OTHER DETAILS.

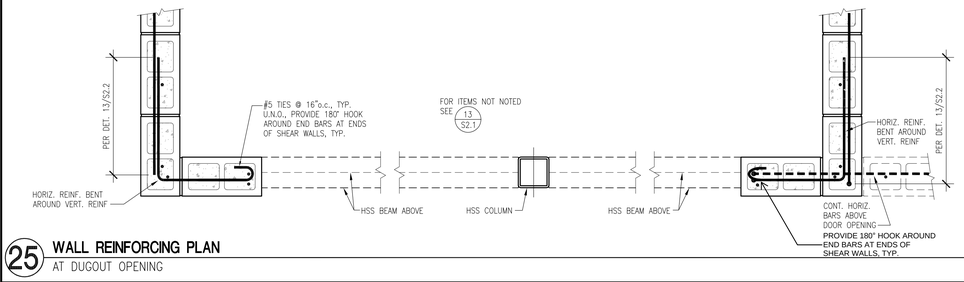
TYP. CMU WALL NOTES

## 12 TYP. A.B. EMBEDMENTS

NO SCALE

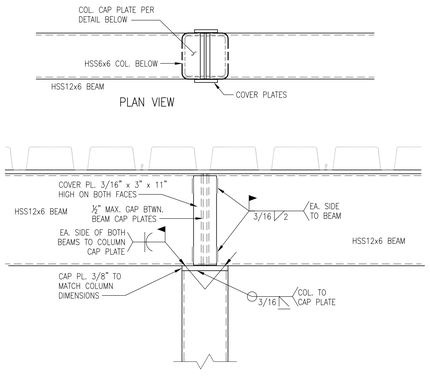
## 13 TYP. MASONRY WALL

NO SCALE



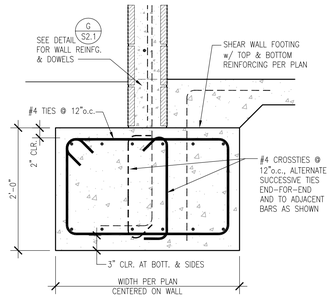

## 25 WALL REINFORCING PLAN AT DUGOUT OPENING

1"=1' 0"




## 29 HSS BEAM CONNECTION AT HSS COLUMN

1-1/2"=1' 0"




## 30 SHEARWALL FOOTING

1"=1' 0"



DRAWING NAME: P:\Verde Design\M19-033 Chavez HS Athletics\Dwgs\Structural\S2-2 with PB on Lett.dwg
PLOT DATE: 03-27-20 PLOTTED BY: Jose

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REGISTERED PROFESSIONAL ENGINEER
TIM O'NEIL
No. 53260
EXP. 3/31/21
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP

SHEET TITLE
ATHLETICS DUGOUT, STOR. ON RIGHT PLANS, ELEVATIONS & DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
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| DSA BACKCHECK SUBMITTAL | 03/27/20 |

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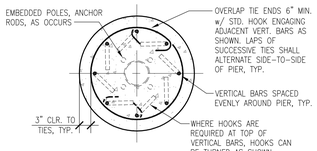
|---|---|---|

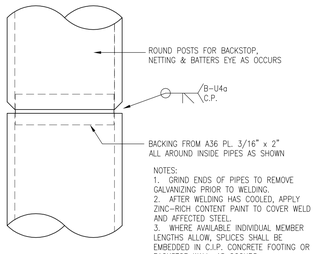
DRAWN BY JJQ, TDH
CHECKED BY TDH
DATE ISSUED 03/27/20
SCALE AS NOTED
PROJ. NO. 1910900-1211
SHEET NO. S2.2 OF #




NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED. ADDITIONALLY, PROVIDE TWO (2) FULL TURNS AT TOP AND BOTTOM OF SPIRAL.

## 4 TYPICAL PIER REINFORCING REQUIREMENTS

3/4"=1' 0"

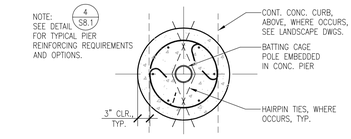



NOTES:
1. GRIND ENDS OF PIPES TO REMOVE GALVANIZING PRIOR TO WELDING.
2. AFTER WELDING HAS COOLED, APPLY ZINC-RICH CONTENT PAINT TO COVER WELD AND AFFECTED STEEL.
3. WHERE AVAILABLE INDIVIDUAL MEMBER LENGTHS ALLOW, SPLICES SHALL BE EMBEDDED IN C.I.P. CONCRETE FOOTING OR BACKSTOP WALL, AS OCCURS.

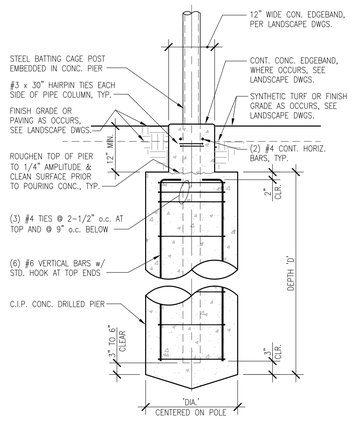
SPLICE POLE SEGMENTS OF SAME SIZE AS SHOWN WHEN FULL-LENGTH POLE MATERIAL IS NOT AVAILABLE.

## 10 TYPICAL POLE/POST SPLICE

NO SCALE

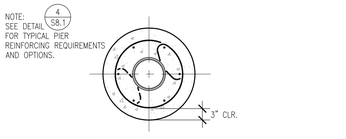



PLAN VIEW

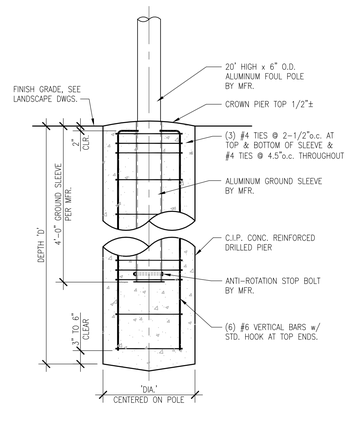



## 11 BATTING CAGE FOOTING

3/4"=1' 0"




PLAN VIEW



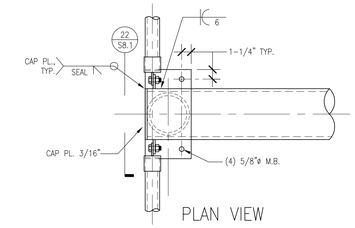

## 12 FOUL POLE FOOTING

3/4"=1' 0"

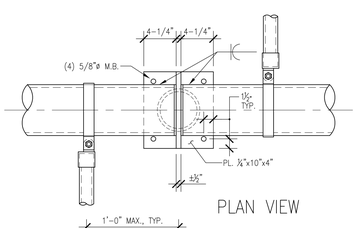
| POLE TYPE | PIER DIAMETER, "DIA" | MIN. PIER DEPTH, "D" | PIER REINFORCING | COMMENTS |
|---|---|---|---|---|
| 14' HIGH BATTING CAGE | 18" | 7'-0" | SEE DETAIL 11 | 5"ø STD. PIPE POSTS (SCHED. 40, 5.560" O.D. x 0.241" WALL, ASTM A53, GR. B, Fy=35 ksi). |
| 20' HIGH FOUL POLE | 24" | 5'-6" | SEE DETAIL 12 | ROUND ALUMINUM POLE AND GROUND SLEEVE BY OTHERS. HEIGHT FROM GRADE TO BOTTOM OF WING SCREEN = 8'-0" |

## 16 POLE/POST & C.I.D.H. PIER SCEDULE

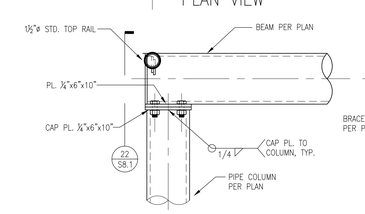
NO SCALE




PLAN VIEW

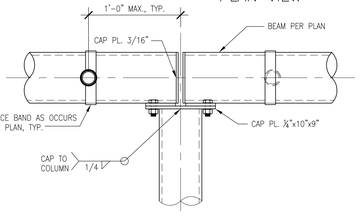



PLAN VIEW



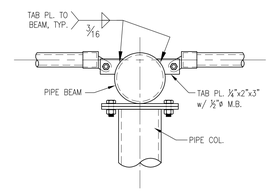

ELEVATION

A – BEAM SUPPORT (EXTERIOR)




ELEVATION

B – BEAM SUPPORT (INTERIOR)

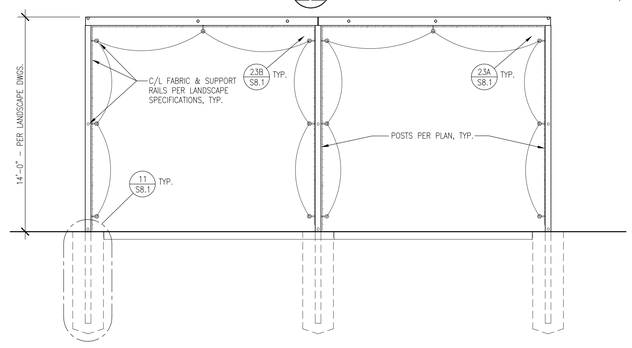



## 22 SECTION - TOP RAIL AT PIPE BEAM CONN.

1-1/2"=1' 0"

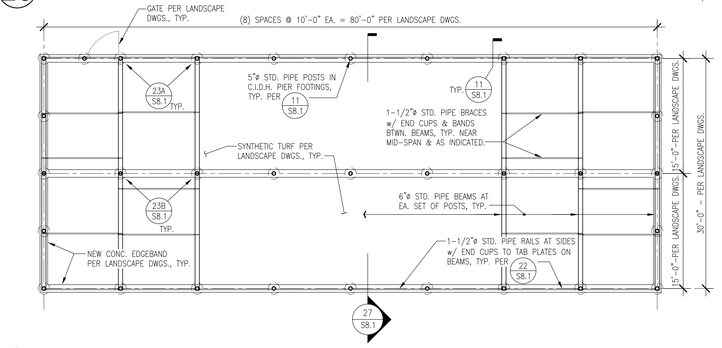
## 23 BATTING CAGE BEAM CONNECTIONS

1-1/2"=1' 0"




## 27 TYP. BATTING CAGE SECTION

1"=1' 0"




## 29 BATTING CAGE FOUNDATION & FRAMING PLAN

1/8"=1' 0"



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APP. 02-118017 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
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tel: 916.415.6554
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CONSULTANT

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1505 MERIDIAN AVE, SUITE B
SAN JOSE, CALIFORNIA 95125
WWW.AKHSE.COM
PHONE 408.978.1970
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AKH JOB M19-033

REGISTERED PROFESSIONAL ENGINEER
TIM D. HYDE
No. 53260
EXP. 3/31/21
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP

SHEET TITLE

ATHLETICS
SITE STRUCTURES
FOUNDATION DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY
IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
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| DRAWN BY | CHECKED BY |
|---|---|
| JJQ, TDH | TDH |
| DATE ISSUED: 03/27/20 | SCALE: AS NOTED |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: S8.1 | OF # |

DSA IR A-22 EXEMPTION

THE FOLLOWING ITEM(S) SHALL BE EXEMPT FROM DSA REVIEW:

30 FT NETTING

**2. CONSTRUCTION PROJECTS AND ITEMS ELIGIBLE FOR EXEMPTION**

Where indicated in Section 1, see Appendix for a list of construction projects and items eligible for exemption from DSA SS, FLS, and/or AC plan review and approval and construction oversight. Footnotes clarify any special conditions.

**2.1** Items listed in the Appendix are exempt only when complying with one of the following:

**2.1.1** The item(s) constitutes the entire scope of a project.

**2.1.2** The item(s) is part of a set of plans submitted to DSA for approval for a larger school project, and item 2.1.2.1 and, when applicable, item 2.1.2.2 are provided:

**2.1.2.1** A note on the construction documents stating the item(s) is "not part of the DSA approval." Without this note, DSA will treat this item(s) as described in Section 3.

**2.1.2.2** For occupiable buildings identified in the Appendix, a letter by the school district board, superintendent, or facilities director acknowledging the item will not be approved or certified by DSA.

| | |
|---|---|
| 11. Open-mesh baseball backstops less than 35 ft. in height consisting of cantilevered pole systems. | **No**[7] |

REINFORCING STEEL (FOR CONCRETE )

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19A OF THE CODE, ASTM A615, GRADE 60 UNO.
2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
3. REINFORCING BAR SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPLICES UNLESS NOTED OTHERWISE ON PLANS.
4. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
5. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.
6. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR PRIOR TO PLACEMENT OF CONCRETE.
7. CONTINUOUS INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL.
8. ALL GRADE 60 REINFORCING STEEL SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM GRADE 40 REINFORCING STEEL IF CONCURRENTLY ON SITE.
9. CONCRETE PROTECTION FOR REINFORCEMENT

   (i) CAST-IN-PLACE CONCRETE (NON-PRESTRESSED). THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

| | MINIMUM COVER, IN. |
|---|---|
| A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3 |
| B. CONCRETE EXPOSED TO EARTH OR WEATHER: | |
| NO. 6 THROUGH NO. 18 BAR | 2 |
| NO. 5 BAR, W31 OR D31 WIRE & SMALLER | 1 1/2 |

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (LATEST EDITION), AND WITH CHAPTERS 17A AND 22A OF THE CODE.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

| | |
|---|---|
| WF SHAPES | A992 |
| PLATES, CONNECTION PLATES, AND MISC | A36 (UNO) |
| PIPE SECTIONS | A53, GRADE B |
| HSS SECTIONS | A500, GRADE C |
| BOLTS | A325 (UNO) |
| BOLTS IN CONCRETE U.N.O. | F1554 GR 36 KSI |

3. BOLT HOLES USED IN STEEL SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED.
4. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1 LATEST REVISION) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTIONS SECTION FOR WELDING INSPECTION REQUIREMENTS. USE OF E70T-4 WIRE IS NOT PERMITTED.
5. WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED.
6. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTION AGENCY. APPROVAL SHALL BE BASED ON SECTION 1704A.2.5 OF THE CODE. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
7. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360-10 SECTION J2.2b.
8. ALL EXPOSED STRUCTURAL STEEL SHALL BE POWDER COATED WITH A DUPONT TGIC POLYESTER PRIMER FOLLOWED BY THE OWNER'S DUPONT TGIC POLYESTER COLOR OF CHOICE. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE SHALL BE LEFT UNPAINTED.
9. THE SPECIAL INSPECTIONS FOR STEEL ELEMENTS OF BUILDINGS AND STRUCTURES SHALL BE AS REQUIRED BY SECTION 1705A.2 OF THE CODE AND CONSTRUCTION DOCUMENTS.

   EXCEPTIONS:
   SPECIAL INSPECTION OF THE STEEL FABRICATION PROCESS SHALL NOT BE REQUIRED WHERE THE FABRICATOR DOES NOT PERFORM ANY WELDING, THERMAL CUTTING OR HEATING OPERATION OF ANY KIND AS PART OF THE FABRICATION PROCESS. IN SUCH CASES, THE FABRICATOR SHALL BE REQUIRED TO SUBMIT A DETAILED PROCEDURE FOR MATERIAL CONTROL THAT DEMONSTRATES THE FABRICATOR'S ABILITY TO MAINTAIN SUITABLE RECORDS AND PROCEDURES SUCH THAT, AT ANY TIME DURING THE FABRICATION PROCESS, THE MATERIAL SPECIFICATION, GRADE AND MILL TEST REPORTS FOR THE MAIN STRESS-CARRYING ELEMENTS ARE CAPABLE OF BEING DETERMINED.
10. ALL WELD MATERIAL SHALL COMPLY WITH AISC 360-10 SECTION J2.6.
11. THE THERMAL CUTTING OF ALL MEMBERS SHALL COMPLY WITH AISC 360-10 SECTION M2.2.

FOUNDATION

1. FOUNDATION DESIGN BASED ON SOIL REPORT BY WALLACE KUHL & ASSOCIATES REPORT NO. 12345.01P, DATED SEPTEMBER 11, 2019. CONTACT INFORMATION:

   MATTHEW MOYNEUIR- (209) 234-7727
2. POLE FOOTINGS ARE DESIGNED BASED ON THE INFORMATION FROM THE DRILLED PIERS SECTION OF THE SOIL REPORT AND IS AS FOLLOWS:

   PASSIVE EARTH PRESSURE = 250 PCF (EFP)

   *VALUES MAY BE INCREASED BY 1/3 FOR WIND OR SEISMIC LOADS.
   THE LATERAL CAPACITY IN THE TOP 1'-0" IS IGNORED.
3. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, IF REQUIRED.
4. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
5. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR PRIOR TO PLACING THE CONCRETE AND REINFORCING. CONTRACTOR TO NOTIFY THE INSPECTOR WHEN INSPECTION OF EXCAVATION IS READY. INSPECTOR TO SUBMIT LETTER OF COMPLIANCE.
6. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTORS SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OF SUCH BRACING.
7. FOUNDATIONS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE INSPECTOR, FOUNDATION ELEVATIONS WILL BE ALTERED BY CHANGE ORDER.
8. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE SOILS REPORT AND APPROVED BY THE SOILS ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED PER CODE SECTION 1705A.6 AND TABLE 1705A.6
9. ALL ABANDONED FOOTINGS, UTILITIES, ETC., SHALL BE REMOVED UNLESS NOTED OTHERWISE. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19A OF THE CODE AND WITH THE PROVISIONS OF ACI 318, 14th edition
2. REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD".
3. CONCRETE MIXES SHALL BE DESIGNED BY THE APPROVED TESTING LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER. THE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE PROPORTIONED BASED ON CHAPTER 19A OF THE CODE.
4. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES:

| LOCATION IN STRUCTURE | STRENGTH (PSI) | DENSITY (PCF) | MAX W/C RATIO |
|---|---|---|---|
| ALL CONCRETE FOOTINGS, TIE BEAMS, PILES, PILE CAPS | 4000 | 150 | 0.50 |

5. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150, TYPE II.
6. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C 33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
7. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C 94.
8. PLACEMENT OF CONCRETE SHALL CONFORM TO CODE SECTION 1903A AND PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED.
9. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.

CABLE SYSTEM

1. WIRE ROPE CLIPS SHALL BE GALVANIZED AND MEET FEDERAL SPECIFICATION FF-C-450, TYPE 1, CLASS I.
2. WIRE ROPE THIMBLES SHALL BE GALVANIZED HEAVY PATTERN AND MEET FEDERAL SPECIFICATION FF-T-276b TYPE III.
3. TURNBUCKLES SHALL BE FORGED GALVANIZED-STEEL AND MEET ASTM F1145-92 AND FEDERAL SPECIFICATION FF-T-791b, TYPE 1, FORM 1.
4. TURNBUCKLES SHALL HAVE 5/8" - 11 THREAD SIZE AND BE JAW & JAW OR JAW & EYE TYPE.
5. MAIN TOP CABLES SHALL BE 1/2" DIAMETER GALVANIZED AND HAVE MINIMUM BREAK STRENGTH OF 11.8 TONS (6x36 WARRINGTON SEALE DRAW GALVANIZED WITH FIBER CORE USED AS BASIS FOR DESIGN).
6. TIE-BACK CABLES SHALL BE 3/8" DIAMETER GALVANIZED AND HAVE A MINIMUM BREAK STRENGTH OF 6.71 TONS (6x36 WARRINGTON SEALE DRAWN GALVANIZED WITH FIBER CORE USED AS BASIS FOR DESIGN).
7. SIDE AND BASE CABLES SHALL BE GALVANIZED 1/4" DIAMETER, 7x19 TYPE AND HAVE A MINIMUM BREAKING STRENGTH OF 3.5 TONS.
8. ALL CABLES SHALL BE PRESTRETCHED ZING COATED STRUCTURAL STEEL WIRE ROPE COMPLYING WITH ASTM A 603 WITH A MINIMUM MODULS OF ELASTICITY OF 20,000ksi.

STRUCTURAL NOTES

DESIGN CRITERIA

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

   2016 CALIFORNIA BUILDING CODE AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
2. WIND ANALYSIS PER CHAPTER 16A OF THE CODE

   RISK CATEGORY = I
   BASIC WIND SPEED = 115 mph
   WIND EXPOSURE = C
4. SEISMIC ANALYSIS PER CHAPTER 16A OF THE CODE UTILIZING THE FOLLOWING PROCEDURE:
   - THE EQUIVALENT LATERAL FORCE ANALYSIS

   RISK CATEGORY = I
   IMPORTANCE FACTOR = 1.00
   $S_S$ = 0.831
   $S_1$ = 0.317
   SITE CLASS = D
   $S_{DS}$ = 0.647
   $S_{D1}$ = 0.374

GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
4. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
5. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
6. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
7. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS, IF ANY, ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES AND COORDINATING WITH THE REQUIREMENTS OF THIS PROJECT. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IF ANY CONDITIONS ARE DISCOVERED THAT REQUIRES FURTHER COORDINATION.

   THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT OCCURS DUE TO NOT FULLY LOCATING EXISTING UTILITIES.
8. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS BASED ON AVAILABLE KNOWLEDGE OF EXISTING STRUCTURE. CONTRACTOR SHALL VERIFY IN FIELD ALL EXISTING CONDITIONS RELATIVE TO THE SCOPE OF THIS PROJECT. WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE DRAWINGS PROVIDED, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. CONTRACTOR SHALL ALIGN FOR SUFFICIENT BUDGET AND SCHEDULE CONTINGENCY TO ADDRESS EXISTING HIDDEN CONDITIONS.
9. ALL DEMOLITION SHALL BE PERFORMED IN SUCH A WAY AS NOT TO DAMAGE THE EXISTING STRUCTURAL ELEMENTS THAT ARE TO REMAIN IN THE FINISHED STRUCTURE. ANY PORTIONS OF STRUCTURE TO REMAIN THAT ARE DAMAGED DURING DEMOLITION SHALL BE REPLACED AT NO ADDITIONAL COST. EXISTING STRUCTURAL ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE, IN ORDER TO MITIGATE DAMAGE. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL EXISTING STRUCTURAL ELEMENTS THAT ARE NECESSARY FOR THE COMPLETION OF ALL NEW WORK.

SHEET INDEX



TOTAL OF 2 SHEETS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020


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fax: 408.985.7260
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STAMP

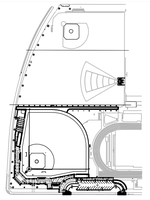
REGISTERED LANDSCAPE ARCHITECT
MARK S. BARANSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT


kpff
18400 Von Karman Ave., Suite 600
Irvine, CA 92612
O: 949.252.1022
F: 949.252.8082
www.kpff.com


REGISTERED PROFESSIONAL ENGINEER
WILLIAM H. THOMPSON
No. S 5607
Exp. 3-31-20
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP



SHEET TITLE

GENERAL NOTES

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY
IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| | |
| | |
| | |

| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
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| 6 | | |

| DRAWN BY | CHECKED BY |
|---|---|
| FC | JV |
| DATE ISSUED: 12/20/2019 | SCALE: |

PROJ. NO.: 1910900-1211

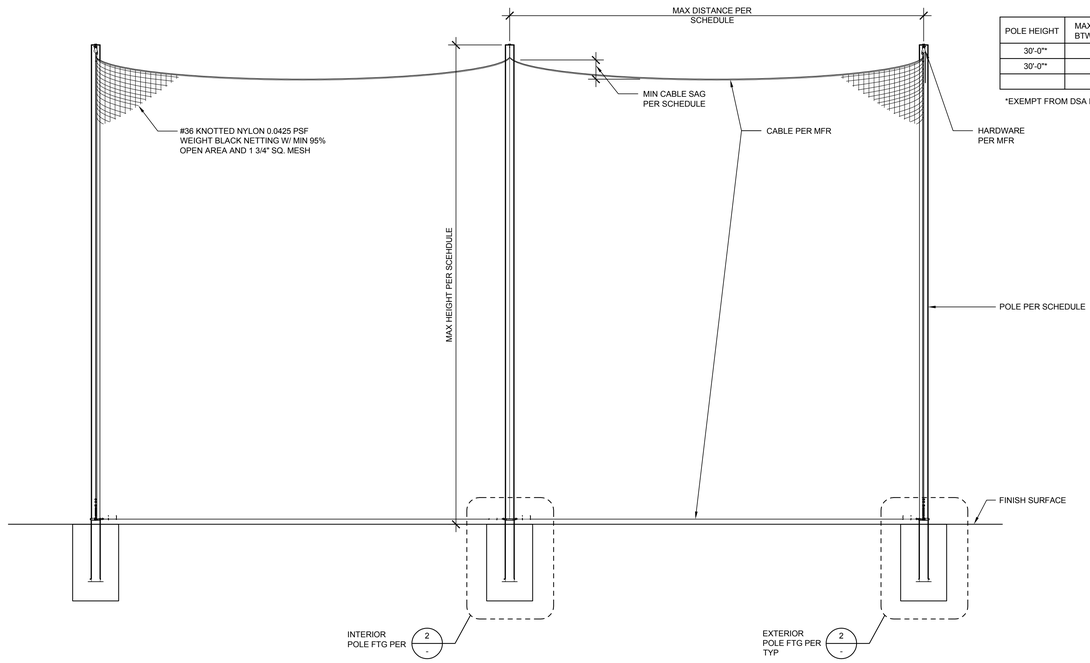
SHEET NO.: SFS1





DRAWING NAME: S:\Projects\2019\1900997 - Cesar Chavez HS Sportsfield\DRAWINGS\AutoCAD\SFS1.dwg
PLOT DATE: 12-06-19 PLOTTED BY: fcarreon

NOTE:
WHERE MAX DISTANCE VARIES ON EITHER SIDE OF POLE, THE LARGER MAX DISTANCE SHALL BE USED IN DETERMINING POLE SIZE.

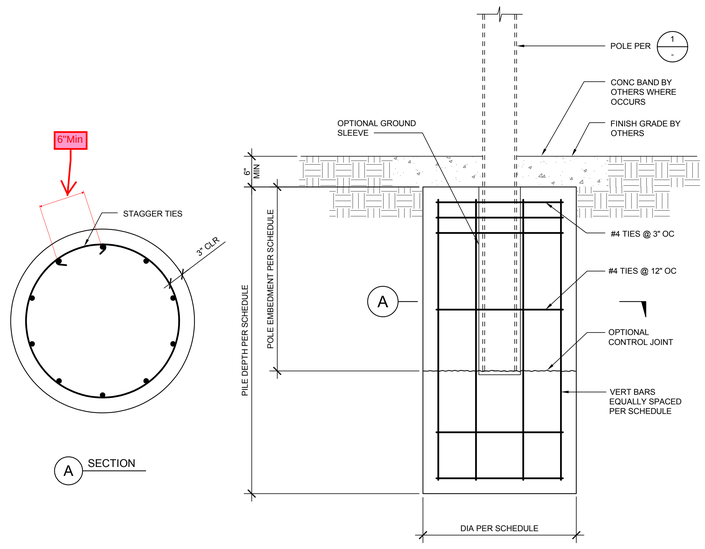



| POLE HEIGHT | MAX DISTANCE BTW POLES | POLE SIZE | CABLE SAG |
|---|---|---|---|
| 30'-0"* | 24'-0" | HSS8.625x0.375 | 1'-6" |
| 30'-0"* | 66'-4" | HSS12.75x0.500 | 2'-6" |
| | | | |

*EXEMPT FROM DSA REVIEW PER IR A-22

## NETTING POLE DETAIL

1/4" = 1'-0" 1




NOTE:
WHERE MAX DISTANCE VARIES ON EITHER SIDE OF POLE, THE LARGER MAX DISTANCE SHALL BE USED IN DETERMINING FOOTING AND EMBEDMENT.

| COMPONENT | PILE DIAMETER | POLE EMBEDMENT | PILE DEPTH | VERT BAR QUANTITY |
|---|---|---|---|---|
| 30 FT NETTING AT 24'-0" MAX SPACING | 3'-0" | 3'-0" | 7'-3" | (12) #6 |
| 30 FT NETTING AT 66'-4" MAX SPACING | 3'-0" | 5'-0" | 9'-6" | (12) #6 |

*EXEMPT FROM DSA REVIEW PER IR A-22

## FOOTING DETAIL

1/4" = 1'-0" 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020


VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
www.VerdeDesigninc.com


STAMP

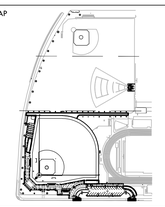
REGISTERED LANDSCAPE ARCHITECT
MARK S. BACIKSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2021
STATE OF CALIFORNIA

CONSULTANT


kpff
18400 Von Karman Ave., Suite 600
Irvine, CA 92612
O: 949.252.1022
F: 949.252.8082
www.kpff.com


REGISTERED PROFESSIONAL ENGINEER
WILLIAM H. THOMPSON
No. S 3607
Exp. 3-31-20
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP



SHEET TITLE

DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| | |
| | |
| | |

| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

| DRAWN BY | CHECKED BY |
|---|---|
| FC | JV |
| DATE ISSUED: 12/20/2019 | SCALE: |

PROJ. NO. 1910900-1211

SHEET NO. SFS2 2 OF 2



DRAWING NAME: S:\Projects\2019\1900997 - Cesar Chavez HS Sportsfield\DRAWINGS\AutoCAD\SFS2.dwg
PLOT DATE: 12-06-19 PLOTTED BY: fcarreon

# GENERAL NOTES:

1. READ THE COMPLETE SPECIFICATIONS, CONTRACT DOCUMENTS AND COMPLY WITH EACH REQUIREMENTS.
2. THE COMPLETE ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE N.E.C., AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL BE LICENSED BY THE STATE OF CALIFORNIA C-10 AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
5. PRIOR TO SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND ALLOW FOR LABOR, MATERIAL AND COORDINATION THAT IS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF EACH SYSTEM. THE CONTRACTOR SHALL OBTAIN AND BE FAMILIAR WITH ALL OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
7. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS. "AS-BUILT" DRAWINGS SHALL SHOW ACTUAL CHANGES TO ORIGINAL ELECTRICAL DRAWING, SHOW LOCATIONS OF PULLBOXES, CONDUIT RUNS AND WIRING CHANGES.
8. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE UL OR CSA LISTED AND SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
9. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
11. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS. ALL EXTERIOR CONDUITS SHALL BE "RSG" UNLESS OTHERWISE NOTED ON DRAWINGS.
12. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM, TWO (2) #12'S WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR "ROUGH" ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
13. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
14. ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING HAS BEEN SELECTED BASED ON DIMENSIONS TO FIT THE SPACE. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS PRIOR TO ORDERING OF THE EQUIPMENT.
15. CONTRACTOR SHALL REVIEW EQUIPMENT REQUIREMENTS OF OTHER TRADES AND PROVIDE POWER CIRCUITS AND CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT.
16. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS.
17. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
18. NEW DUCT ROUTES ARE APPROXIMATE ONLY AND MAY BE ADJUSTED IN THE FIELD TO CLEAR OTHER UNDERGROUND UTILITIES. PROVIDE AS-BUILT DRAWINGS TO INDICATE ACTUAL LOCATION OF CONDUIT ROUTING.
19. EFFECTIVELY BOND ELECTRICAL CABINETS, ENCLOSURES AND CONDUIT RACEWAYS TO CODE APPROVED GROUND AS PART OF THE CONTINUOUS GROUNDING SYSTEM.
20. FROM ALL NEW PANELS, THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
21. UTILITY SERVICE WORK SHALL BE IN ACCORDANCE WITH THE SERVING UTILITY COMPANY'S RULES, REGULATIONS AND STANDARDS, AND SHALL BE VERIFIED WITH UTILITY COMPANY'S ENGINEERING DRAWINGS AND FIELD SUPERVISOR PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER, CATV AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS. THE CONTRACTOR SHALL REMAIN IN CONTACT WITH UTILITY COMPANY ENGINEERING DEPARTMENTS THROUGHOUT PROJECT TO INSURE COORDINATION AND SCHEDULING OF WORK.
22. THE CONTRACTOR SHALL PROVIDE IN EVERY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION. STRING SHALL BE NYLON PULLSTRING ROPE/STRING.
23. POWER FEEDERS MAY NOT BE SHOWN ON THE DRAWINGS, REFER TO THE SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER INFORMATION. ALL DRAWINGS ARE DIAGRAMMATIC INDICATING LOCATION OR POSITION OF EQUIPMENT. FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION OF ANY WORK.
24. MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR SIZING, CIRCUIT BREAKER OR FUSE PROTECTION OF ELECTRICALLY OPERATED EQUIPMENT MAY DIFFER FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR SHALL CONFIRM RATINGS PRIOR TO ORDERING EQUIPMENT. PROVIDE ELECTRICAL PROTECTION TO EQUIPMENT IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND PER NATIONAL ELECTRICAL CODE REQUIREMENTS.
25. PROVIDE SEISMIC BRACING FOR ALL PENDANT LIGHT FIXTURES, FREESTANDING ELECTRICAL DISTRIBUTION EQUIPMENT, MOTOR CONTROL CENTERS ETC, AND CONDUIT RACKS PER SEISMIC CRITERIA 2016 CBC REQUIREMENTS INCLUDING ENGINEERED LOAD CALCULATIONS COMPLETE WITH SWAY BRACING CRITERIA.
26. DO NOT SUBSTITUTE SPECIFIED MATERIAL OR EQUIPMENT WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER OR HIS REPRESENTATIVE.
27. ALL SPACES ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARES AND BUSSING FOR FUTURE BREAKER OR SWITCH.
28. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2016 NATIONAL ELECTRICAL CODE AS AMENDED BY THE 2016 CALIFORNIA ELECTRICAL CODE.
29. SPLICE GROUND WIRE INSIDE ALL METAL ELECTRICAL PULL BOXES AND BOND TO METAL COVER WITH #6 CU GND.

# SYMBOL LIST:

- E1/ — PLAN, DETAIL OR SECTION DESIGNATION.
- 201 — ROOM NUMBER.
- 1 — SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET.
- 3 — FEEDER SCHEDULE SYMBOL.
- CH 2 — MECHANICAL EQUIPMENT TAG.
- A — INDICATES FIXTURE TYPE

## LUMINAIRE SYMBOLS

- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE WALL MOUNTED-SEE SCHEDULE.
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EM — EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE WALL MOUNTED- PROVIDE EMERGENCY BATTERY BALLAST
- EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
- EXIT LIGHT SINGLE FACE (WITH ARROW)- SEE SCHEDULE.
- EXIT LIGHT (DOUBLE FACED WITH ARROW)- SEE SCHEDULE.
- COMBO EMERGENCY LIGHT/ EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
- EMERGENCY BATTERY PACK EXIT LIGHT INSTALL AS DIRECTED.

## TYPICAL LUMINAIRE NOMENCLATURE

- 3a — INDICATES SWITCHING DESIGNATION
- INDICATES CIRCUIT NUMBER

## SWITCH SYMBOLS

- $ — SINGLE POLE SWITCH, + 48" AFF UON.
- $a — SINGLE POLE SWITCH, + 48" AFF UON, a = CIRCUIT CONTROLLED.
- $3 — THREE WAY SWITCH + 48" AFF UON.
- $4 — FOUR WAY SWITCH + 48" AFF UON.
- $ — MOTOR RATED SWITCH
- OS — OCCUPANCY SENSOR
- OSP — OCCUPANCY SENSOR POWER PACK

## RECEPTACLE SYMBOLS

- CONVENIENCE RECEPTACLE - DUPLEX AT + 18" AFF UON.
- GFCI CONVENIENCE RECEPTACLE - DUPLEX.
- RECEPTACLE DOUBLE DUPLEX AT + 18" AFF UON.
- SINGLE RECEPTACLE - NEMA 5-20R UON, AT + 18" AFF UON.
- SINGLE RECEPTACLE - NEMA L21 - 208 VOLT, THREE PHASE, 5 WIRE, AT + 18" AFF UON.
- FLOOR BOX WITH CONVENIENCE RECEPTACLE, TELEPHONE AND DATA OUTLET.
- FLUSH FLOOR BOX WITH SINGLE CONVENIENCE RECEPTACLE.
- WIRE RACEWAY, INSTALL AT + 36" AFF UON.

## POWER DISTRIBUTION SYMBOLS

- PANELBOARD - SURFACE OR FLUSH MOUNTED.
- JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE TO CODE, TAPE AND TAG WIRES. PROVIDE FLEX AND/OR RECEPTACLE AS REQUIRED TO CONNECT EQUIPMENT.
- DISTRIBUTION PANEL
- M — MOTOR
- 30 — COMBINATION MAGNETIC STARTER FUSED DISCONNECT SWITCH. RATING AS INDICATED.
- 60 — UNFUSED DISCONNECT SWITCH - RATING AS INDICATED.
- 100 — FUSED DISCONNECT SWITCH - SIZE FUSES PER MOTOR MANUFACTURER'S RECOMMENDATIONS. RATING AS INDICATED.
- II — MAGNETIC STARTER - NEMA SIZE INDICATED.
- T — TRANSFORMER - SEE SINGLE LINE FOR SIZE.
- GROUND ROD.

## WIRING & CONDUIT RUN SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - EXPOSED.
- CONDUIT - IN OR BELOW FLOOR. 3/4"MIN.
- #10 — CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSSHATCHES WITH "#10" INDICATES WIRE SIZE OTHER THAN #12'S.
- FLEX CONDUIT WITH CONNECTION.
- CONDUIT - STUB UP.
- CONDUIT - STUB DOWN.
- CONDUIT EMERGENCY SYSTEM.
- CAPPED CONDUIT.
- CONDUIT CONTINUATION.

## POWER DISTRIBUTION SINGLE LINE SYMBOLS

- CIRCUIT BREAKER.
- M — "PS4E" METER W/ CURRENT TRANSFORMER.
- TRANSFORMER.

# GENERAL ANCHORAGE NOTES:

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THOUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAT 8 HOURS AND HEAVIER THAT 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

A. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2016 CBC, SECTION 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

# ABBREVIATIONS:

| | |
|---|---|
| A | AMPERE |
| ABV | ABOVE |
| AF | AMP FRAME OR AMP FUSE |
| AFF | ABOVE FINISHED FLOOR |
| ARCH | ARCHITECTURAL |
| AS | AMP SWITCH |
| AT | AMP TRIP |
| ATS | AUTOMATIC TRANSFER SWITCH |
| BKR | BREAKER |
| BLDG | BUILDING |
| C | CONDUIT |
| CATV | CABLE TELEVISION |
| CB | CIRCUIT BREAKER |
| CD | CANDELAS |
| CKT | CIRCUIT |
| CL | CENTER LINE |
| CLG | CEILING |
| CO | CONDUIT ONLY |
| CTR | CENTER |
| (D) | DEMOLISH |
| DET | DETAIL |
| DIM | DIMENSION |
| DISTR | DISTRIBUTION |
| DWG | DRAWING |
| (E) | EXISTING |
| EM | EMERGENCY |
| EQPT | EQUIPMENT |
| FA | FIRE ALARM |
| FACP | FIRE ALARM CONTROL PANEL |
| (F) | FUTURE |
| FIN | FINISH |
| FL | FLOOR |
| G , GND | GROUND |
| HGT | HEIGHT |
| HP | HORSEPOWER |
| IC | INTERCOM |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| JB | JUNCTION BOX |
| KAIC | KILOAMPERE INTERRUPTING CAPACITY |
| KV | KILOVOLT |
| KVA | KILOVOLT AMPERES |
| KW | KILOWATT |
| LTG | LIGHTING |
| LCP | LIGHTING CONTROL PANEL |
| MCM | THOUSAND CIRCULAR MILS |
| MDF | MAIN DISTRIBUTION FRAME |
| MECH | MECHANICAL |
| MH | MANHOLE |
| MTD | MOUNTED |
| MTG | MOUNTING |
| (N) | NEW |
| NC | NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NIEC | NOT IN ELECTRICAL CONTRACT |
| NO | NUMBER/ NORMALLY OPEN |
| NTS | NOT TO SCALE |
| O.C. | ON CENTER |
| P | POLE/ CIRCUIT BREAKER |
| PA | PUBLIC ADDRESS |
| PB | PULL BOX |
| PF | POWER FACTOR |
| PH | PHASE |
| PNL | PANEL |
| (R) | EXISTING TO BE RELOCATED |
| REQD | REQUIRED |
| REQT | REQUIREMENT(S) |
| RM | ROOM |
| RSG | RIGID STEEL CONDUIT |
| SHT | SHEET |
| SW | SWITCH |
| SWBD | SWITCHBOARD |
| TC | TERMINAL CABINET |
| TEL | TELEPHONE |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |
| V | VOLT |
| W | WATT |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |

# FIXTURE SCHEDULE

| TYPE | LAMPS | LAMP QUANTITY | BALLAST | MOUNTING | DESCRIPTION | WEIGHT |
|---|---|---|---|---|---|---|
| AA | 74W LED | N/A | N/A | MOUNTED ON A 15' POLE FLUSH BASE (5 E1.2) | SINGLE HEAD POLE MOUNTED LED LUMINAIRE WITH A RECTANGULAR 15' POLE. HOUSING TO HAVE DIE CAST ALUMINUM. FIXTURE TO HAVE LED DRIVER THAT ACCEPTS 277V AT 60HZ. DRIVER OUTPUT IS BASED ON THE LED WATTAGE SELECTED. FINISH TO HAVE A FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED, TRISLYCIDAL ISOCYANURATE (TGIC) TEXTURED POLYESTER POWDCOAT FINISH.<br>FIXTURE SHALL BE PROVIDED WITH MINIMUM 3-YEAR WARRANTY. SUBMIT DOCUMENTATION OF PRODUCT AT CLOSE OUT. NOTE: FIXTURE USED AT PEDESTRIAN PATHWAY/EGRESS.<br>GARDCO - P26-48L-500-WH-62-AR-S-UNV 277V<br>POLE SHALL BE STRAIGHT SQUARE STEEL POLE 4" X 15' X 7 GAUGE BY KVN (SSP15-4.0-7) POLE SHALL BE DRILLED FOR THE NUMBER OF HEADS INDICATED. POLE SHALL HAVE BRONZE FINISH.<br>THE POLE SHAFT SHALL BE A SINGLE PIECE 7 GAUGE CARBON STEEL. THE ANCHOR BASE SHALL BE CARBON STEEL WITH A MINIMUM YIELD STRENGTH OF 36KSI. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT SHALL BE PROVIDED WITH ALL HARDWARE NECESSARY FOR POLE INSTALLATION. BASE COVER SHALL BE TWO PIECE AND CONCEAL THE ENTIRE BASE PLATE AND ANCHORAGE. POLE SHALL BE PROVIDED WITH A HANDHOLE 12" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLES SHALL BE FACTORY DRILLED FOR PROPER FIXTURE INSTALLATION. ALL POLES SHALL BE PROPERLY LEVELED AND VERTICAL. LIGHTING FIXTURE HEADS SHALL BE MOUNTED TO THE POLE PER THE MANUFACTURERS RECOMMENDATIONS. | 38lbs. |
| AB1 | 74W LED | N/A | N/A | MOUNTED ON A 12' POLE 3' RAISED BASE (5 E1.2) | SINGLE HEAD POLE MOUNTED LED LUMINAIRE WITH A RECTANGULAR 12' POLE. HOUSING TO HAVE DIE CAST ALUMINUM. FIXTURE TO HAVE LED DRIVER THAT ACCEPTS 277V AT 60HZ. DRIVER OUTPUT IS BASED ON THE LED WATTAGE SELECTED. FINISH TO HAVE A FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED, TRISLYCIDAL ISOCYANURATE (TGIC) TEXTURED POLYESTER POWDCOAT FINISH.<br>FIXTURE SHALL BE PROVIDED WITH MINIMUM 3-YEAR WARRANTY. SUBMIT DOCUMENTATION OF PRODUCT AT CLOSE OUT. NOTE: FIXTURE USED AT PEDESTRIAN PATHWAY/EGRESS.<br>GARDCO - P26-48L-500-WH-62-AR-S-UNV 277V<br>POLE SHALL BE STRAIGHT SQUARE STEEL POLE 4" X 12' X 7 GAUGE BY KVN (SSP12-4.0-7) POLE SHALL BE DRILLED FOR THE NUMBER OF HEADS INDICATED. POLE SHALL HAVE BRONZE FINISH.<br>THE POLE SHAFT SHALL BE A SINGLE PIECE 7 GAUGE CARBON STEEL. THE ANCHOR BASE SHALL BE CARBON STEEL WITH A MINIMUM YIELD STRENGTH OF 36KSI. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT SHALL BE PROVIDED WITH ALL HARDWARE NECESSARY FOR POLE INSTALLATION. BASE COVER SHALL BE TWO PIECE AND CONCEAL THE ENTIRE BASE PLATE AND ANCHORAGE. POLE SHALL BE PROVIDED WITH A HANDHOLE 12" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLES SHALL BE FACTORY DRILLED FOR PROPER FIXTURE INSTALLATION. ALL POLES SHALL BE PROPERLY LEVELED AND VERTICAL. LIGHTING FIXTURE HEADS SHALL BE MOUNTED TO THE POLE PER THE MANUFACTURERS RECOMMENDATIONS. | 38lbs. |
| AB2 | 74W LED | N/A | N/A | MOUNTED ON A 12' POLE 3' RAISED BASE (5 E1.2) | DOUBLE HEAD POLE MOUNTED LED LUMINAIRE WITH A RECTANGULAR 12' POLE. HOUSING TO HAVE DIE CAST ALUMINUM. FIXTURE TO HAVE LED DRIVER THAT ACCEPTS 277V AT 60HZ. DRIVER OUTPUT IS BASED ON THE LED WATTAGE SELECTED. FINISH TO HAVE A FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED, TRISLYCIDAL ISOCYANURATE (TGIC) TEXTURED POLYESTER POWDCOAT FINISH.<br>FIXTURE SHALL BE PROVIDED WITH MINIMUM 3-YEAR WARRANTY. SUBMIT DOCUMENTATION OF PRODUCT AT CLOSE OUT. NOTE: FIXTURE USED AT PEDESTRIAN PATHWAY/EGRESS.<br>GARDCO - P26-48L-500-WH-62-AR-S-UNV 277V<br>POLE SHALL BE STRAIGHT SQUARE STEEL POLE 4" X 12' X 7 GAUGE BY KVN (SSP12-4.0-7) POLE SHALL BE DRILLED FOR THE NUMBER OF HEADS INDICATED. POLE SHALL HAVE BRONZE FINISH.<br>THE POLE SHAFT SHALL BE A SINGLE PIECE 7 GAUGE CARBON STEEL. THE ANCHOR BASE SHALL BE CARBON STEEL WITH A MINIMUM YIELD STRENGTH OF 36KSI. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT SHALL BE PROVIDED WITH ALL HARDWARE NECESSARY FOR POLE INSTALLATION. BASE COVER SHALL BE TWO PIECE AND CONCEAL THE ENTIRE BASE PLATE AND ANCHORAGE. POLE SHALL BE PROVIDED WITH A HANDHOLE 12" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLES SHALL BE FACTORY DRILLED FOR PROPER FIXTURE INSTALLATION. ALL POLES SHALL BE PROPERLY LEVELED AND VERTICAL. LIGHTING FIXTURE HEADS SHALL BE MOUNTED TO THE POLE PER THE MANUFACTURERS RECOMMENDATIONS. | 38lbs. |
| B | 40W LED | N/A | N/A | BATTING CAGE (5 E1.2) | SINGLE HEAD LED RECTANGULAR LUMINAIRE WITH DIE CAST ALUMINUM ALLOY HOUSING. FIXTURE TO BE EQUIPPED WITH ADJUSTABLE BRACKET AND HARDWIRE TO MOUNT BELOW BLEACHER.<br>FIXTURE SHALL BE PROVIDED WITH MINIMUM 3-YEAR WARRANTY. SUBMIT DOCUMENTATION OF PRODUCT AT CLOSE OUT. NOTE: FIXTURE USED AT PEDESTRIAN PATHWAY/EGRESS.<br>NORTHSTAR LIGHTING - #AFGL-50-50-3-U-D-I 277V | 10lbs. |
| F1-F6 | | | | | SEE MUSCO DRAWINGS | |

# DRAWING INDEX



THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN AREA OF NEW TRENCHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. EXTREME CARE SHALL BE MAINTAINED DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN AREA. MODIFICATIONS TO EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM CONFIGURATION AND SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA EXPENSE TO THE OWNER THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL NEW WORK.

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REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER S. FERTADO — E16880 — 06/30/21 — ELECTRICAL — STATE OF CALIFORNIA

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JOB # E19146.00


KEYMAP

SHEET TITLE
ELECTRICAL SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULE

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

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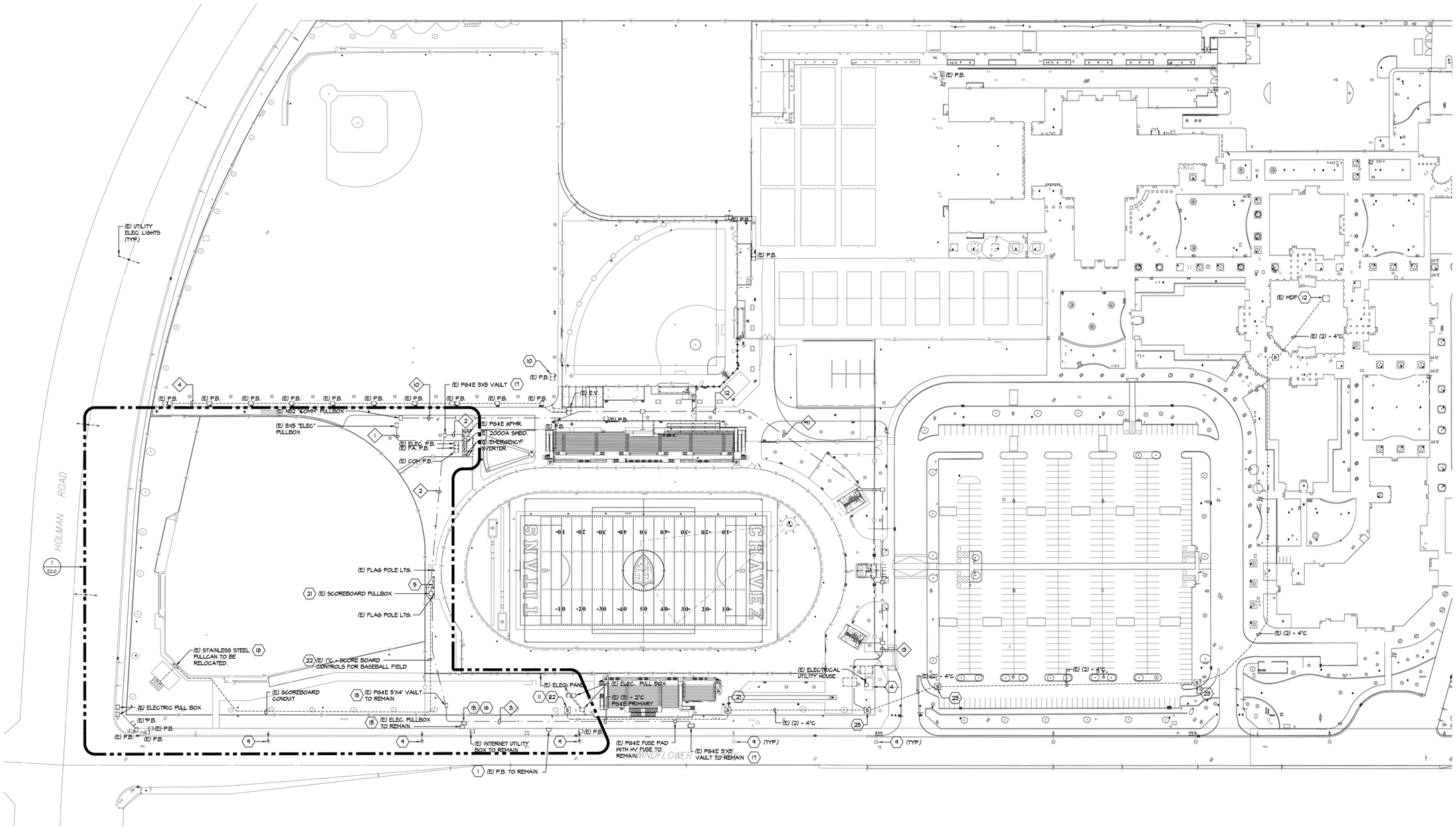
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: E0.1 OF # | |




# 1 ELECTRICAL DEMOLITION SITE PLAN

E1.0 SCALE: 1" = 60'-0"

## DEMOLITION SHEETS NOTES:

1. PROTECT AND ADJUST AS NEEDED TO FACILITATE DEMOLITION AND NEW WORK.PROVIDE NEW TRAFFIC RATED LID.
2. * (E) EMERGENCY LIGHT FIXTURE AND POLE TO BE DISCONNECTED, REMOVED AND RELOCATED TO FACILITATE FIELD EXPANSION. REMOVE AND REPLACE POWER CABLE BACK TO SOURCE TO FACILITATE DEMOLITION WORK. PROVIDE AND EXTEND CABLE AND CONDUIT TO NEW LOCATION.
3. NOT USED.
4. (E) ELECTRICAL UTILITY TO REMAIN AND BE PROTECTED. (E) EQUIPMENT IN UTILITY ROOM INCLUDES DIST PANELS FOR FOOTBALL FIELD. CONTRACTOR TO VERIFY TO FACILITATE DEMOLITION AND NEW WORK. DIST. PANELS TO REMAIN.
5. (E) SCOREBOARD AND FOOTINGS TO REMAIN AND BE PROTECTED. CONTRACTOR TO REMOVE/REINSTALL AS NEEDED TO FACILITATE DEMOLITION AND NEW WORK. REMOVE POWER AND REGONNECT WITH NEW. SEE SINGLE LINE DIAGRAM. (E) BRANCH CIRCUITRY IN (E) PANEL LOCATED IN (E) ELEC. UTILITY HOUSE.
6. NOT USED.
7. NOT USED.
8. NOT USED.
9. (E) CITY POLE LIGHTS TO REMAIN. (E) UNDERGROUND CONDUITS MAY EFFECT (N) WORK. CONTRACTOR TO LOCATE EXISTING CONDUIT & CABLE TO FACILITATE DEMOLITION AND NEW WORK. RE-CONNECT AS REQUIRED. PROVIDE (N) N9 PULLBOX TO INTERCEPT & SPLICE AS NEEDED. PROVIDE AND MATCH WITH (N) CONDUIT AND CABLE. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CITY AND OBTAIN NECESSARY PERMITS TO FACILITATE PROPOSED WORK.
10. (E) POWER PULL BOX TO REMAIN. PROTECT AS NEEDED TO FACILITATE DEMOLITION AND NEW WORK. DAMAGE TO (E) LID SHALL BE REPLACED AT NO COST TO OWNER.
11. * (E) COMMUNICATION PULL BOX TO BE RELOCATED TO FACILITATE NEW WORK. (E) CABLE SYSTEMS CONSIST OF SCOREBOARD, TELEPHONE AND DATA. REMOVE CABLES BACK TO SOURCE. (E) COMMUNICATION CABLE FOR (E) BASEBALL FIELD TO REMAIN SUCH THAT BASEBALL FIELD COMMUNICATION SYSTEM IS OPERATIONAL.
12. (E) MDF LOCATED IN BUILDING "A" TO REMAIN.
13. NOT USED.
14. NOT USED.
15. PROTECT AS NEEDED TO FACILITATE DEMOLITION AND NEW WORK. DAMAGE TO (E) LID SHALL BE REPLACED AT NO COST TO OWNER.
16. (E) TELEPHONE UTILITY VAULT TO REMAIN.
17. (E) PG&E UTILITY VAULT TO REMAIN.
18. (E) POWER OUTLET IN (E) PULLCAN TO BE RELOCATED. (E) CIRCUITS ARE LOCATED IN (E) ELEC. UTILITY HOUSE.
19. NOT USED.
20. NOT USED.
21. (E) COMMUNICATION PULLBOX TO REMAIN.
22. (E) CONDUIT AND CABLE FOR SCOREBOARD CONTROLS TO REMAIN. (E) UNDERGROUND CONDUITS AND CABLES TO REMAIN OPERATIONAL.
23. (E) COMMUNICATION BOX TO REMAIN.
24. NOT USED.
25. (E) 3'X5' COMMUNICATION BOX TO REMAIN.

## GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND DEMOLITION REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ARCHITECTURAL PHASING SCHEDULE. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. (E) PULL BOX NOT SHOWN OR INDENTIFIED ON DRAWINGS TO REMAIN AND SHALL NEED TO BE ADJUSTED TO (N) FINISH GRADE. CONTRACTOR TO PROVIDE AND INCLUDE, IN BID, BOX ADJUSTMENTS. ADJUSTMENTS INCLUDE (N) GRAVEL AND ADDITIONAL PULL BOX APRON.
4. ALL (E) CONDUITS SHOWN ON DRAWINGS ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT ROUTING. CONTRACTORS TO INCLUDE IN BID PROFESSIONAL UNDERGROUND CONDUIT LOCATOR AS NEEDED FOR HE/SHE TO BE FAMILIAR WITH THE (E) SITE CONDITIONS AND PROVIDE REQUIRED WORK AND ADJUSTMENTS TO EXTEND/RECONNECT POWER CONDUITS AS NOTED IN DRAWINGS.
5. CONTRACTOR SHALL VERIFY ALL EXISTING ELECTRICAL EQUIPMENT NOTED ON DRAWINGS AND REMOVE TO SOURCE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING AND LOCATING POWER AND COMMUNICATION SOURCE AND PROPERLY SAFE-OFF ALL ELECTRICAL EQUIPMENT NOTED TO BE DEMOLISHED.

## CONDUIT SCHEDULE:

| POWER SYSTEMS | |
|---|---|
| 1 | (E) (6) 2½"GO - FUTURE BASEBALL FIELD LIGHTING<br>(E) (2) 2"GO - FUTURE BASEBALL TICKET BOOTH<br>(E) (1) ½"GO - FUTURE BASEBALL SPARE |
| 2 | (E) 4"G - PG&E PRIMARY |
| 3 | (E) (3) 2"G - PG&E PRIMARY |
| 4 | (E) (2) 2"G - EMERGENCY<br>(E) (2) 2"GO - NON-EMERGENCY |

| COMMUNICATION SYSTEMS | |
|---|---|
| 10 | (E) 4"GO - DATA / FIBER (VOIP)<br>(E) 2"GO - SIGNAL |
| 11 | (E) 4"G - DATA/ FIBER (VOIP)<br>(E) 4"GO - DATA/ FIBER (VOIP)<br>(E) 2"GO - SIGNAL/ INTRUSION |
| 12 | (E) 4"G - FIBER (VOIP) - FOOTBALL PRESS BOX<br>(E) 4"G - FIBER (VOIP) - SOFTBALL PRESS BOX<br>(E) 4"GO - DATA / FIBER (VOIP BASEBALL)<br>(E) 2"GO - SIGNAL/ INTRUSION |
| 13 | (E) 4"G - FIBER (VOIP)<br>(E) 4"GO - FIBER<br>(E) 2"GO - SIGNAL/ INTRUSION |



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KEYMAP

SHEET TITLE
ELECTRICAL DEMOLITION SITE PLAN

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
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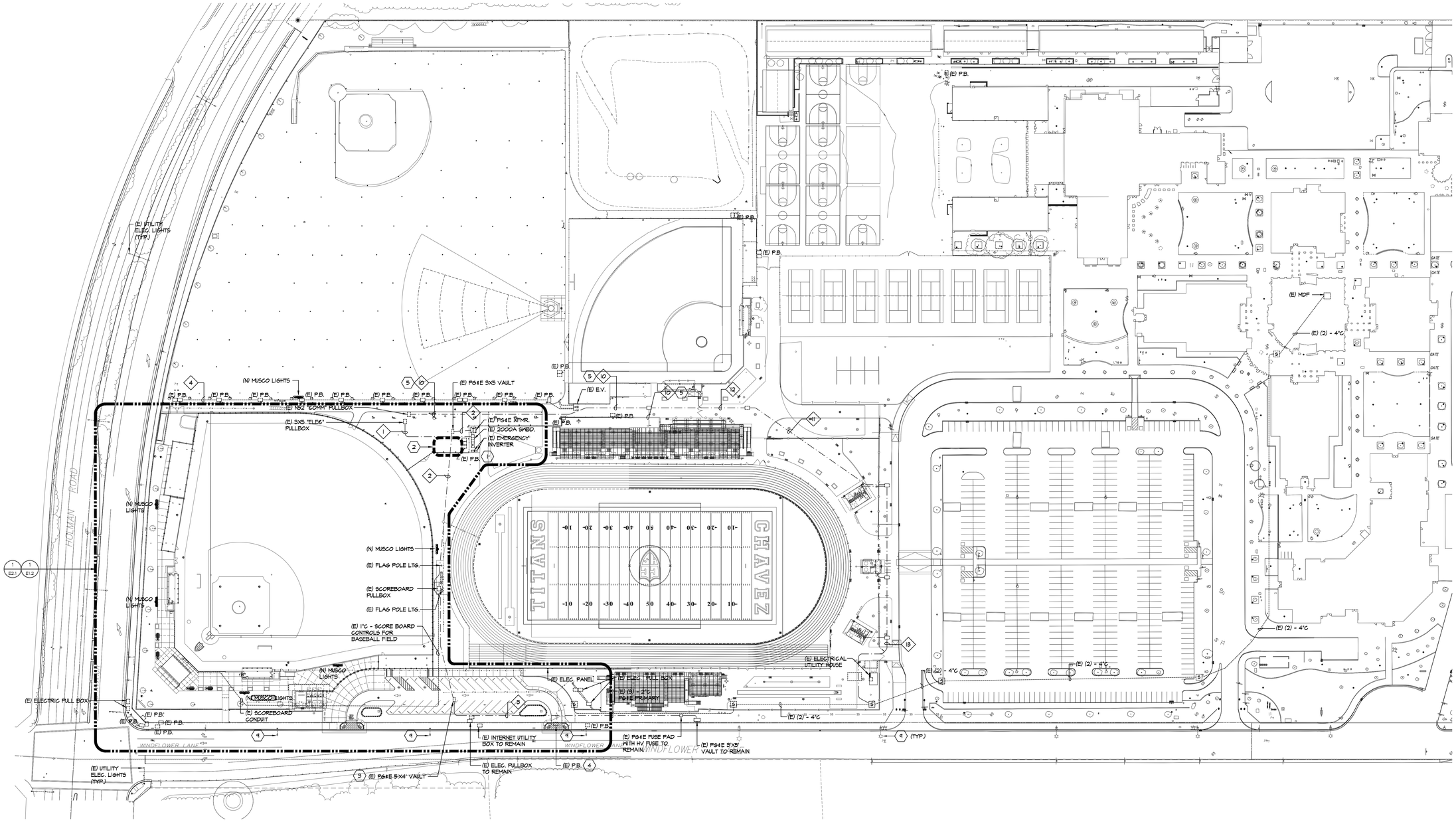
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay




# 1 ELECTRICAL SITE PLAN - NEW

E1.1 SCALE: 1" = 60'-0"

## GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
4. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
5. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2016 NEC.
7. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USA ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
8. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
9. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
11. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
12. ALL POWER SYSTEM CONDUITS STUB IN "ELECTRICAL" PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN "SIGNAL" BOXES AS REQUIRED BY CODE.

## SHEETS NOTES:

1. LOCATE (E) POWER PULL BOX AND STUB NEW CONDUIT AS SHOWN.
2. CONTRACTOR TO TRENCH DEEPER TO AVOID (E) 4"C PG4E PRIMARY. EXISTING PG4E IS ROUGHLY 36" DEEP. CONTRACTOR TO VERIFY CONDUITS CAN CROSS. PROVIDE (N) CONDUIT HAS 18" SEPARATION FROM (E) PG4E CONDUIT.
3. EXISTING PG4E VAULT TO BE REPLACED TO FACILITATE NEW PARKING LOT. THE EXISTING SERVICE VAULT IS THE PRIMARY SERVICE BOX FEEDING THE EXISTING 2000A, 3-PHASE OUTDOOR SWITCHBOARD FOR THE SPORT FIELD. TWO EXISTING 4AC PRIMARY COMES IN AND OUT OF THIS BOX. THE CONTRACTOR SHALL BE RESPONSIBLE AND INCLUDE ALL WORK NECESSARY TO REPLACE THE EXISTING 3X5 PG4E VAULT. WORK ALSO INCLUDES THE CONTRACTOR TO SUBMIT A PG4E APPLICATION AND SCHEDULE/COORDINATE THE REPLACEMENT WITH PG4E AND THEIR INSPECTORS WITHIN THE CONTRACTED COMPLETION DATE OF THE PROJECT. CONTRACTOR SHALL SAFE-OFF EXISTING ELECTRICAL SYSTEMS IN ORDER TO PROPERLY SHUT-DOWN POWER PER SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS A RESULT OF IMPROPER SHUT DOWN. EXISTING SYSTEMS THAT ARE ON THE (E) 2000A ARE NOTED ON THE SINGLE LINE DIAGRAM. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A FIRE WATCH WHEN THE FIRE ALARM SYSTEM IS DOWN FOR THE SPORT FIELD BUILDINGS (PRESS BOX, CONCESSION, RESTROOM ETC.). CONTRACTOR MAY NEED TO PROVIDE A TEMP GENERATOR AS AN OPTION TO KEEP THE FIRE ALARM ACTIVE IN LIEU OF A FIRE WATCH. THE EXISTING FIELD INVERTER WILL NEED TO BE IN SAFE MODE SUCH THAT THE EMERGENCY BATTERIES DO NOT DRAIN. CONTRACTOR SHALL CONFIRM AND OBTAIN APPROVAL WITH THE DISTRICT PRIOR TO PLACEMENT IN SAFE MODE. IN ADDITION, IDFS WILL NEED TO BE PROPERLY SHUT-DOWN WITH DISTRICT IT TO ENSURE NO DAMAGE. CONTRACTOR TO PROVIDE AND SCHEDULE PROPER SHUT-DOWN WITH DISTRICT IT AND OBTAIN CONFIRMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PG&E FEES TO FACILITATE AND SCHEDULE 3X5 VAULT REPLACEMENT.
4. PROTECT AND ADJUST AS NEEDED TO FACILITATE DEMOLITION AND NEW WORK. PROVIDE NEW TRAFFIC RATED LID.
5. ROUTE NEW FIBER AND INTRUSION CABLES IN EXISTING SIGNAL CONDUITS.
6. NOT USED.
7. NOT USED.
8. NOT USED.
9. CONTRACTOR TO VERIFY (E) LIGHT POLES ARE OPERATIONAL. REPORT (E) POLES FOR DEFECTIVE LAMPS.

## CONDUIT SCHEDULE:

**POWER SYSTEMS**

1. (E) (6) 2½"GO - FUTURE BASEBALL FIELD LIGHTING
   (E) (2) 2"GO - FUTURE BASEBALL TICKET BOOTH
   (E) (1) 1½"GO - FUTURE BASEBALL SPARE
2. (E) 4"G - PG&E PRIMARY
3. (E) (3) 2"G - PG&E PRIMARY
4. (E) (2) 2"G - EMERGENCY
   (E) (2) 2"GO - NON-EMERGENCY

**COMMUNICATION SYSTEMS**

10. (E) 4"GO - DATA / FIBER (VOIP)
    (E) 2"GO - SIGNAL
11. (E) 4"G - DATA/ FIBER (VOIP)
    (E) 4"GO - DATA/ FIBER (VOIP)
    (E) 2"GO - SIGNAL/ INTRUSION
12. (E) 4"G - FIBER (VOIP) - FOOTBALL PRESS BOX
    (E) 4"G - FIBER (VOIP) - SOFTBALL PRESS BOX
    (E) 4"GO - DATA / FIBER (VOIP BASEBALL)
    (E) 2"GO - SIGNAL/ INTRUSION
13. (E) 4"G - FIBER (VOIP)
    (E) 4"GO - FIBER
    (E) 2"GO - SIGNAL/ INTRUSION



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PLOT DATE: 03-27-20 PLOTTED BY: sbuhay

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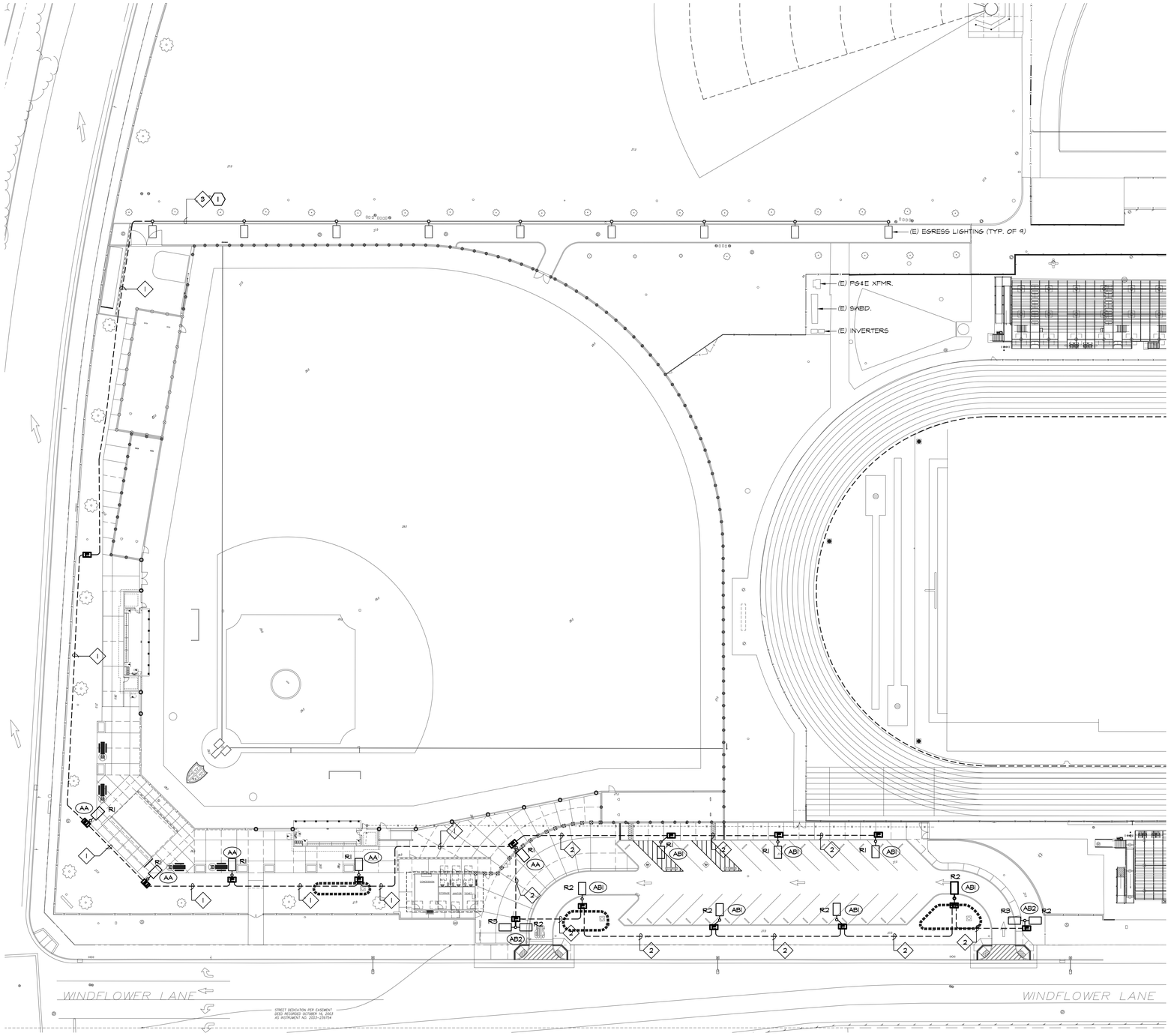


1 / E1.2 **ENLARGED NEW PARKING LIGHTING PLAN**

SCALE: 1" = 30'-0"

## GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2016 CALIFORNIA ELECTRICAL CODE.
2. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
4. CONTRACTOR TO COORDINATE ELECTRICAL SITE PLAN, FA AND PEDESTRIAN SITE PLAN TO COMBINE ALL UNDERGROUND CONDUITS IN COMMON TRENCH AS NECESSARY. EMERGENCY CIRCUITS SHALL HAVE THEIR PULL BOXES OR PULL CAN AS REQUIRED BY CODE.
5. SEE SHEETS ET.1 THRU ET.4 FOR ADDITIONAL DETAILS.
6. CONTRACTOR TO PROVIDE COMPLETE WORKING EGRESS LIGHTING SYSTEM AND PROVIDE TRAINING WITH DISTRICT FOR PROPER OPERATION AND MAINTENANCE OF SYSTEM.
7. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
8. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
9. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS FOR EMERGENCY LIGHTING.
10. ALL EMERGENCY CIRCUITS SHALL BE PROVIDED WITH IN-GRADE BOXES PER NEC. LABEL LID "EMERGENCY".
11. ALL EXPOSED CONDUIT MOUNTED ON PRESS BOX OR BLEACHER SHALL BE RIGID STEEL.
12. SPLICE GROUND WIRE INSIDE ALL METAL ELECTRICAL PULL BOXES LABELED "EMERGENCY POWER" AND BOND TO METAL COVER WITH #6 CU GND.

## SHEETS NOTES:

1. ROUTE NEW WIRES FOR NEW EGRESS LIGHTING IN (E) (2) 2"C.

## CONDUIT SCHEDULE:

1. (2) 1½"C - EMERGENCY LIGHTING
   (1) 1½" CO - SPARE
2. 1½ "C - EMERGENCY LIGHTING
   1½ "CO - SPARE
3. (E) 2"C - EMERGENCY

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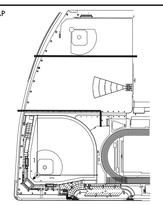

SHEET TITLE

ENLARGED NEW PARKING LIGHTING PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
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| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
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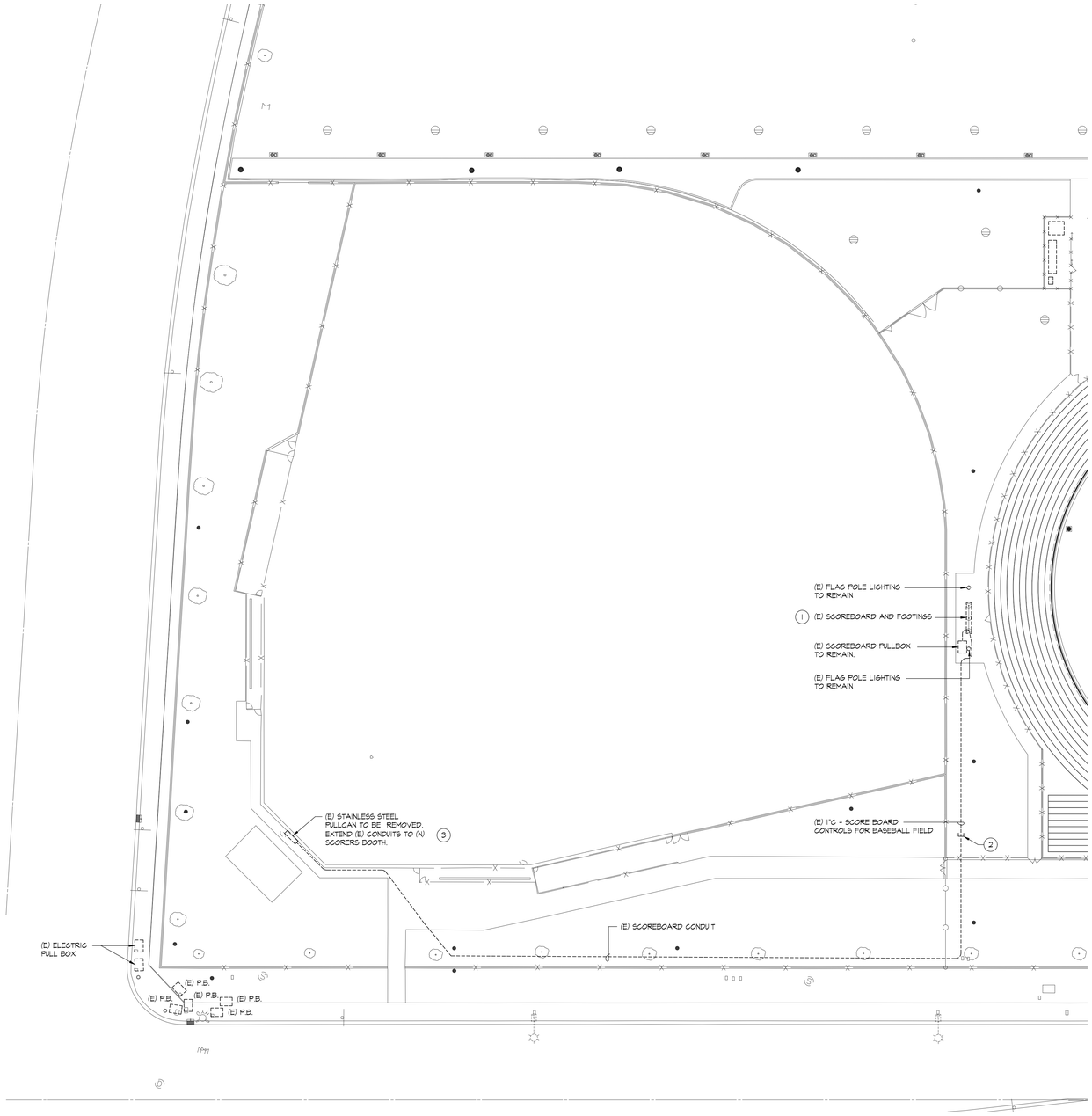
| DRAWN BY | CHECKED BY |
|---|---|
| MG | SB/ SF |
| DATE ISSUED: 03/27/20 | SCALE: |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: E1.2 | OF # |

ENLARGED NEW PARKING LIGHTING PLAN



DRAWING NAME: L:\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\ATHLETIC FACILITY\E1.2_Enlarged New Parking Lighting.dwg
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay




1 / E2.0 **ENLARGED BASEBALL FIELD - ELECTRICAL DEMOLITION SITE PLAN**

SCALE: 1" = 30'-0"

NORTH

## GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND DEMOLITION REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ARCHITECTURAL PHASING SCHEDULE. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. (E) PULL BOX NOT SHOWN OR INDENTIFIED ON DRAWINGS TO REMAIN AND SHALL NEED TO BE ADJUSTED TO (N) FINISH GRADE. CONTRACTOR TO PROVIDE AND INCLUDE, IN BID, BOX ADJUSTMENTS. ADJUSTMENTS INCLUDE (N) GRAVEL AND ADDITIONAL PULL BOX APRON.
4. ALL (E) CONDUITS SHOWN ON DRAWINGS ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT ROUTING. CONTRACTORS TO INCLUDE IN BID PROFESSIONAL UNDERGROUND CONDUIT LOCATOR AS NEEDED FOR HE/SHE TO BE FAMILIAR WITH THE (E) SITE CONDITIONS AND PROVIDE REQUIRED WORK AND ADJUSTMENTS TO EXTEND/RECONNECT POWER CONDUITS AS NOTED IN DRAWINGS.

## DEMOLITION SHEETS NOTES:

1. (E) SCOREBOARD IS DOUBLE-SIDED AND SERVES BASEBALL & FOOTBALL. CONTRACTOR TO IDENTIFY AND CONFIRM CABLES FOR SCORE KEEPER CONTROLS. (E) SCORE KEEPER SIGNAL CONTROL CABLES TO BE REROUTED TO (N) SCORE KEEPERS BOOTH.
2. LOCATE (E) UNDERGROUND 1"G AND EXTEND TO (N) SCORER'S BOOTH.
3. (E) PULL CAN WITH 120V OUTLET AND SCOREBOARD CONTROLS. (E) SCOREBOARD CONTROLS TO BE EXTENDED TO (N) SCORER'S BOOTH. (E) 120V BRANCH CIRCUIT TO BE REMOVED BACK TO SOURCE.

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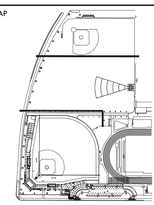

SHEET TITLE

ENLARGED BASEBALL FIELD ELECTRICAL DEMOLITION SITE PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

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| MG | SB/ SF |
| DATE ISSUED: 03/27/20 | SCALE: |

PROJ. NO. 1910900-1211

SHEET NO. E2.0 OF #



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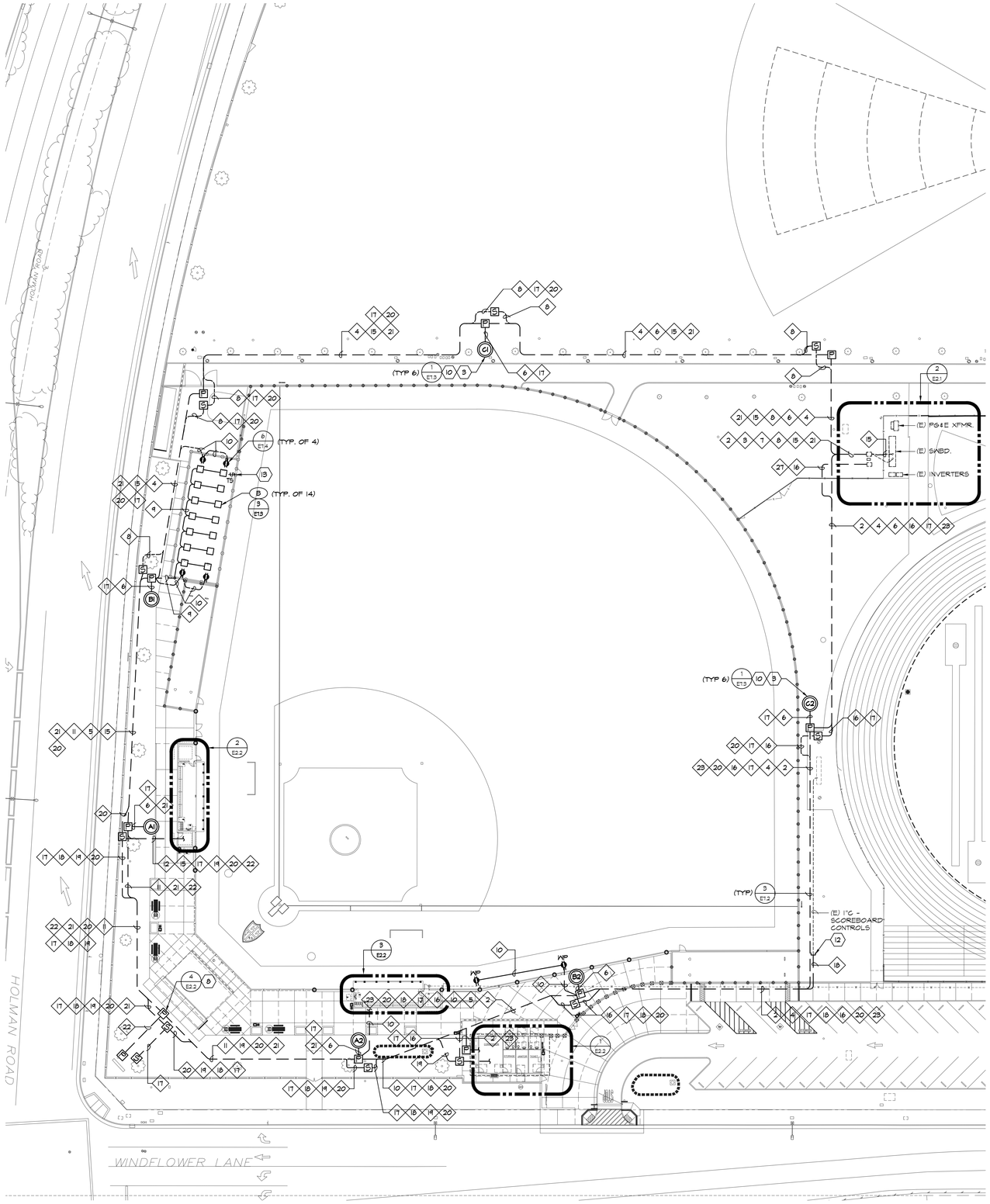
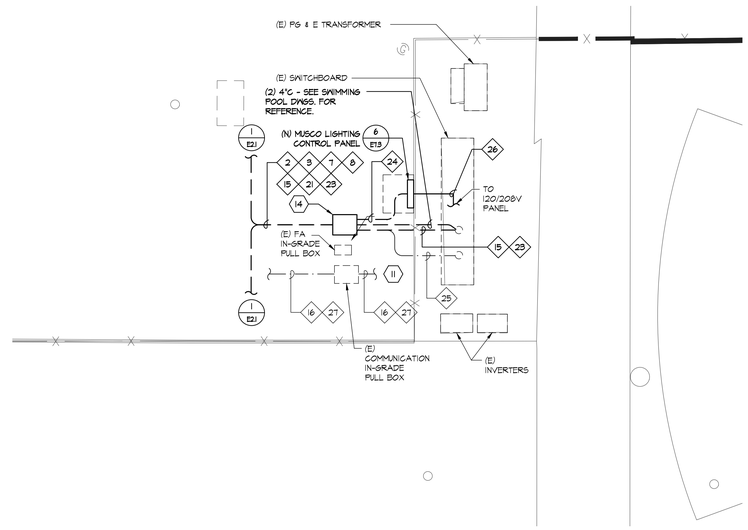
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay




## 1 ENLARGED BASEBALL FIELD - ELECTRICAL NEW SITE PLAN

E2.1 SCALE: 1" = 30'-0"




## 2 ENLARGED ELECTRICAL NEW EQUIPMENT PAD LAYOUT

E2.1 SCALE: 1/8" = 1'-0"

# GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
4. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
5. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2016 CEC.
7. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USE ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
8. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
9. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
11. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
12. ALL POWER SYSTEM CONDUITS STUB IN "ELECTRICAL" PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN "SIGNAL" BOXES AS REQUIRED BY CODE.
13. ALL PULL BOXES SHALL BE TRAFFIC RATED B2436 UNLESS OTHERWISE NOTED. SEE DETAIL FOR SPECIFICS.
14. COORDINATE PULL BOX ORIENTATION WITH LANDSCAPE ARCHITECT TO BE SQUARE WITH SURFACE CURB, CONCRETE WALKWAY, DRAINAGE, ETC.
15. IN-GRADE PULL BOX IDENTIFIED WITH 'L' SHALL HAVE LID LABELED 'LIGHTING'.

# SHEETS NOTES:

1. NBO ELECTRICAL PULLBOX. LABEL LID "ELECTRICAL".
2. NBO COMMUNICATION PULLBOX. LABEL LID "COMMUNICATION".
3. (N) MUSCO SPORTS FIELD LIGHT. SEE MUSCO DRAWINGS FOR ADDITIONAL INFORMATION.
4. TO (N) SWITCHBOARD 277/480V SECTION VIA LIGHTING CONTACTOR. SEE SINGLE LINE DIAGRAM.
5. TO (N) SWITCHBOARD 120/208V SECTION. SEE SINGLE LINE DIAGARM.
6. FLUSH J-BOX AND CONDUIT STUB TO CEILING BY MODULAR MANUFACTURER. POWER RECEPTACLES BY MODULAR MANUFACTURER, UNLESS OTHERWISE NOTED.
7. ROUTE (N) CONDUCTORS AND CONDUITS PER SINGLE LINE DIAGRAM.
8. N4O ELECTRICAL PULL BOX. LABEL LID "ELECTRICAL".
9. PROVIDE DEDICATED OUTLET TO NEAREST ELECTRICAL PANEL. PROVIDE 20A/IP CIRCUIT BREAKER IN PANEL AND CONNECT AS REQUIRED.
10. MUSCO SPORTS FIELD LIGHT WITH SPEAKER.
11. ROUTE AND EXTEND SIGNAL CONDUIT TO PRESS BOX. ROUTE NEW INTRUSION AND DATA FIBER IN EXISTING CONDUITS.
12. LOCATE POWER AND SIGNAL CONDUIT ENTRY TO SCOREBOARD. PROVIDE AND SIZE NEMA-3R PULL CAN AND EXTEND CONDUIT AS SHOWN TO SUCCESSFULLY PROVIDE CONDUIT PATH FOR POWER AND SIGNAL.
13. PROVIDE (N) TIMER SWITCH IN HEAVY DUTY, NEMA-3R, LOCKABLE, GASKET BOX. TIMER SHALL BE INTELLITOPPER "TS-400" TIME SWITCH. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES, CONDUIT, CABLES, ETC. FOR COMPLETE INSTALLATION.
14. REPLACE EXISTING PULL BOX WITH (N) TRAFFIC RATED 3'X5' PULL BOX. LABEL LID ELECTRICAL.

# CONDUIT SCHEDULE:

| POWER SYSTEMS | |
|---|---|
| 1 | NOT USED |
| 2 | (N) (2) 2½"C - SPARE |
| 3 | (N) (4) 2½"C - MUSCO |
| 4 | (N) (2) 2½"C - MUSCO |
| 5 | (N) (1) 2½"C - MUSCO |
| 6 | (N) (1) 2"C - MUSCO |
| 7 | (N) (2) 2"C - MUSCO |
| 8 | (N) (1) ½"CO - SPARE |
| 9 | (N) (1) 1"C - BATTING CAGE LIGHT |
| 10 | (N) (1) 1"C - RECEPTACLE |
| 11 | (N) (2) 1"C - RECEPTACLE |
| 12 | (N) (3) 1"C - RECEPTACLE |
| 13 | (N) (4) 1"C - RECEPTACLE |
| 14 | (N) (5) 1"C - RECEPTACLE |
| 15 | (N) (2) 2 1/2"C - POWER (SCORERS BOOTH) |
| 21 | (N) 1 1/4"C - POWER (MUSCO EGRESS) |
| 22 | (N) 1 1/4"C - POWER (MESSAGE BOARD) |
| 23 | (N) (2) 3 1/2"C - POWER (CONCESSION) |
| 24 | (N) (8) 2 1/2"C - MUSCO<br>(N) (4) 2"C - MUSCO |
| 25 | (E) CONDUIT |
| 26 | (N) (1) 1"C - MUSCO CONTROL PANEL |

| COMMUNICATION SYSTEMS | |
|---|---|
| 16 | (N) 4"C - FIBER (VOIP) |
| 17 | (N) 2"C - SIGNAL |
| 18 | (N) 1"C - SCOREBOARD |
| 19 | (N) 2 1/2"C - DATA |
| 20 | (N) 2 1/2"C - SPEAKER |

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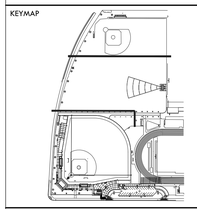

SHEET TITLE

ENLARGED BASEBALL FIELD ELECTRICAL NEW SITE PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
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SHEET NO. E2.1 OF #



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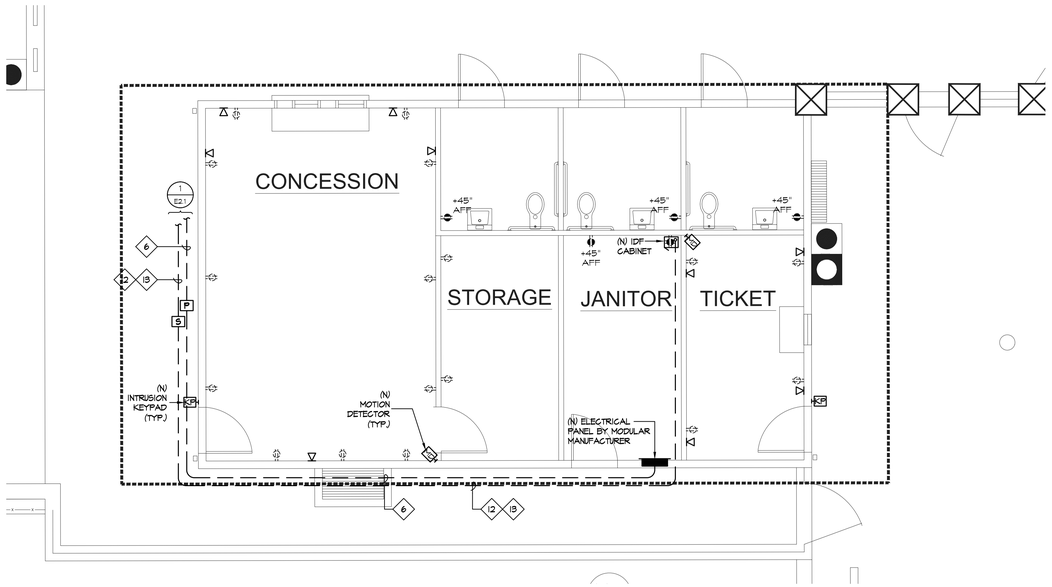
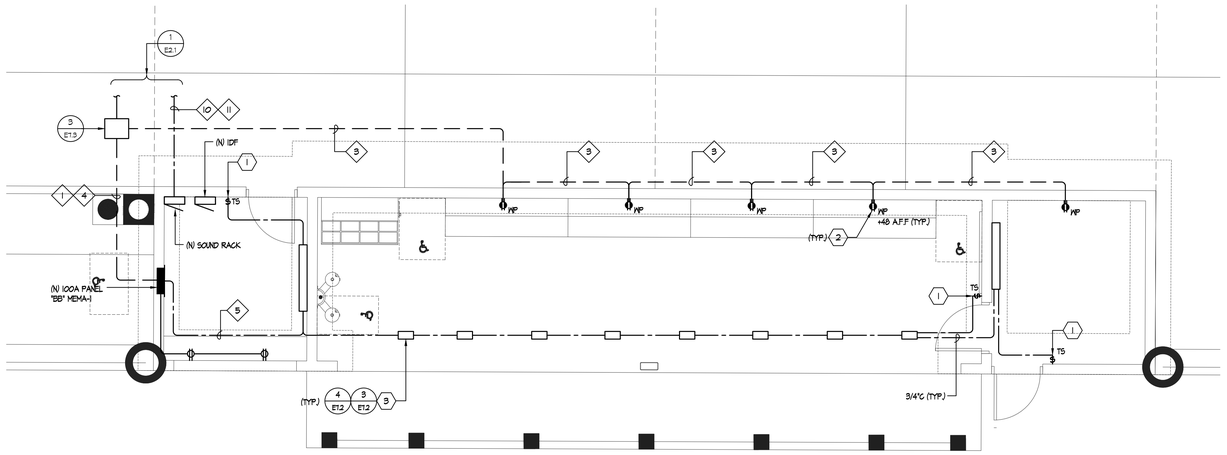
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay



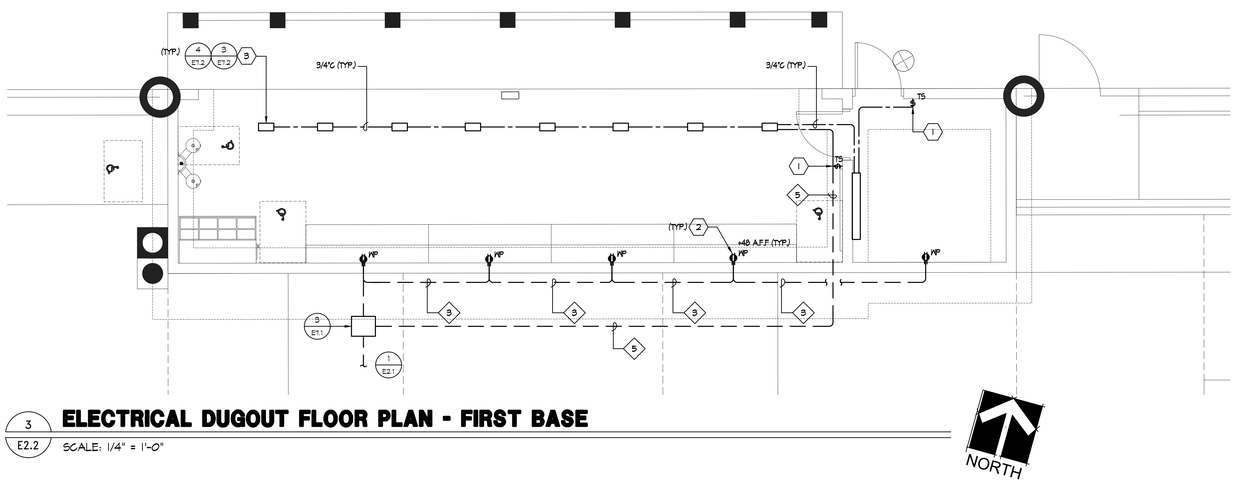

## 1 CONCESSION / STORAGE ELECTRICAL FLOOR PLAN

E2.2 SCALE: 1/4" = 1'-0"


## 2 ELECTRICAL DUGOUT FLOOR PLAN - THIRD BASE

E2.2 SCALE: 1/4" = 1'-0"


## 3 ELECTRICAL DUGOUT FLOOR PLAN - FIRST BASE

E2.2 SCALE: 1/4" = 1'-0"




# GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
4. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
5. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
6. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
7. SEE DETAIL 6/E8.1 FOR TRENCHING REQUIREMENTS.
8. SEE DETAIL 9/E8.1 FOR SPORTS LIGHTING PULLBOX CONDUIT ROUTING DETAIL.
9. CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, SPORT FIELD LIGHTS, CONTROL CABINETS, WIRING, CONDUITS, ETC TO SUCCESSFULLY INSTALL NEW SPORTFIELD LIGHTING.
10. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2016 NEC.
11. ALL CONDUITS FOR OUTLETS AND DATA SHALL BE CONCEALED IN WALL. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DUGOUT CONTRACTOR IN ADVANCE TO ENSURE THEY ARE AWARE OF CONDUITS TO BE CONCEALED IN CMU WALL.
12. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
13. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.

# SHEET NOTES:

1. PROVIDE (N) TIMER SWITCH IN NEMA-3R, LOCKABLE, GASKET BOX. TIMER SHALL BE WATTSTOPPER "TS-400" TIME SWITCH. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES, CONDUIT, CABLES, ETC. FOR COMPLETE INSTALLATION.
2. PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. OUTLET SHALL BE INSTALLED FLUSH IN CMU WALL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECT.
3. LIGHT FIXTURES AND CONDUIT SHALL BE ROUTED ALONG STRUCTURAL BEAM. CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH THE ARCHITECT AND STRUCTURAL.
4. PROVIDE (N) MOTION SENSOR, HEAVY DUTY SWITCH. OUTLETS TO BE FLUSH MOUNTED ON WALL. CONNECT TO PANEL "EB" AS REQUIRED.

# CONDUIT SCHEDULE:

| POWER SYSTEMS | COMMUNICATION SYSTEMS |
|---|---|
| 1 (N) (4) 1"C - RECEPTACLE | 10 (N) 2 1/2"C - DATA |
| 2 (N) (2) 1"C - RECEPTACLE | 11 (N) 2 1/2"C - SPEAKER |
| 3 (N) (1) 1½"C - RECEPTACLE | 12 (N) 4"C - DATA |
| 4 (N) (1) 2½"C - POWER (LOAD CENTER) | 13 (N) 2"C - SIGNAL |
| 5 (N) (1) 3/4"C - LIGHTING | |
| 6 (N) (2) 2 1/2"C - POWER CONCESSION | |

| SYMBOL | DESCRIPTION | ROUGH-IN PROVIDED BY PORTABLE MANUFACTURER | NOTES | ELEVATION |
|---|---|---|---|---|
| (2) | (2) DATA OUTLETS | 4 11/16" BOX WITH 1-GANG COVER PLATE, AND 1 1/2" EXTENSION RING AND (1) 1 1/4"C FROM BOX TO ACCESSIBLE CEILING SPACE. | CONTRACTOR PROVIDED; SEE RISER DIAGRAM OUTLET DETAIL FOR OUTLET AND WIRING REQUIREMENTS. | +18" AFF |
| A/V | AUDIO/ VIDEO OUTLET | 4 11/16" BOX WITH 1-GANG COVER PLATE, AND 1 1/2" EXTENSION RING AND (1) 1 1/4"C FROM BOX TO ACCESSIBLE CEILING SPACE. | A/V WIRING BY DISTRICT | +48" AFF UON |
| (N) (N) | DUPLEX, DOUBLE DUPLEX | 1-GANG WITH (1) 3/4"C FROM BOX TO ACCESSIBLE CEILING SPACE FOR DUPLEX. 2-GANG FOR DOUBLE DUPLEX. | CONTRACTOR PROVIDED, INSTALLED OUTLET WITH BRANCH CIRCUITRY PER NEC. | +18" AFF |
| C C | DUPLEX, DOUBLE DUPLEX<br>DUPLEX, DOUBLE DUPLEX IN CEILING | 1-GANG WITH (1) 3/4"C FROM BOX TO ACCESSIBLE CEILING SPACE FOR DUPLEX. 2-GANG FOR DOUBLE DUPLEX. | PROVIDED BY MODULAR MANUFACTURER. | +18" AFF U.O.N.<br>CEILING OUTLET MOUNTED ON CEILING JOISTS |
| | INTERIOR PANEL | - | PROVIDED BY MODULAR MANUFACTURER. | PER NEC |

* MODULAR MANUFACTURER SHALL PROVIDE AND INSTALL PULL STRING ON ALL EMPTY CONDUITS.

NOTES:

1. SEE MODULAR PLANS FOR LOCATION OF LIGHT SWITCHES, LIGHT FIXTURES, HVAC EQUIPMENT, EXHAUST FAN, AND PANELS.
2. OFCI - OWNER FURNISH OWNER INSTALL.

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American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
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408/236-2312
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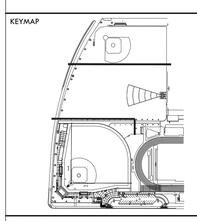
KEYMAP



SHEET TITLE

ENLARGED CONCESSION FIRST & THIRD DUGOUT ELECTRICAL FLOOR PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
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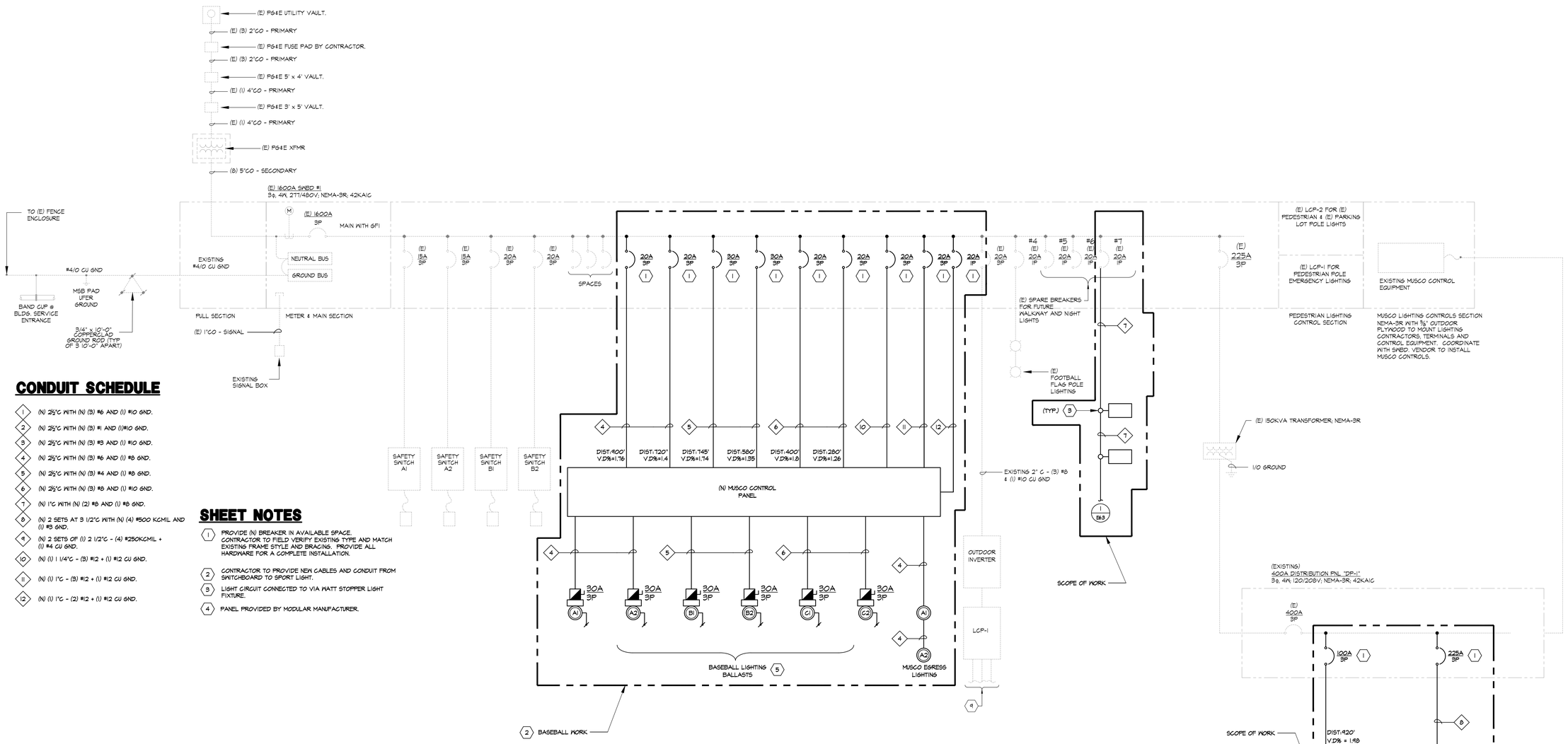
| DRAWN BY: MG | CHECKED BY: SB/ SF |
| DATE ISSUED: 03/27/20 | SCALE: |
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: E2.2 | OF # |




## CONDUIT SCHEDULE

1. (N) 2½"G WITH (N) (3) #6 AND (1) #10 GND.
2. (N) 2½"G WITH (N) (3) #1 AND (1)#10 GND.
3. (N) 2½"G WITH (N) (3) #3 AND (1) #10 GND.
4. (N) 2½"G WITH (N) (3) #6 AND (1) #8 GND.
5. (N) 2½"G WITH (N) (3) #4 AND (1) #8 GND.
6. (N) 2½"G WITH (N) (3) #8 AND (1) #10 GND.
7. (N) 1"G WITH (N) (2) #8 AND (1) #8 GND.
8. (N) 2 SETS AT 3 1/2"G WITH (N) (4) #500 KCMIL AND (1) #3 GND.
9. (N) 2 SETS OF (1) 2 1/2"G - (4) #250KCMIL + (1) #4 CU GND.
10. (N) (1) 1 1/4"G - (3) #12 + (1) #12 CU GND.
11. (N) (1) 1"G - (3) #12 + (1) #12 CU GND.
12. (N) (1) 1"G - (2) #12 + (1) #12 CU GND.

## SHEET NOTES

1. PROVIDE (N) BREAKER IN AVAILABLE SPACE. CONTRACTOR TO FIELD VERIFY EXISTING TYPE AND MATCH EXISTING FRAME STYLE AND BRACING. PROVIDE ALL HARDWARE FOR A COMPLETE INSTALLATION.
2. CONTRACTOR TO PROVIDE NEW CABLES AND CONDUIT FROM SWITCHBOARD TO SPORT LIGHT.
3. LIGHT CIRCUIT CONNECTED TO VIA MATT STOPPER LIGHT FIXTURE.
4. PANEL PROVIDED BY MODULAR MANUFACTURER.

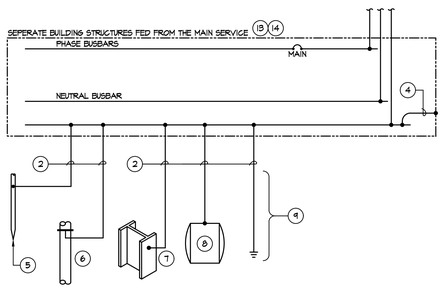
| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PANEL NAME: | SB | | | | | | | | | | | FED FROM: MSG | |
| VOLTAGE: | 208/120V | | | | | | | | | | | MAIN C/B: 100 | |
| PHASE: | 3 | | | | | | | | | | | BUSSING: 150A | |
| WIRE: | 4 | | | | | | | | | | | MIN. AIC: | |
| TYPE: | NEMA 3 | | | | | | | | | | | SUB-FEED C/B: | |
| MOUNTING: | SURFACE | | | | | | | | | | | FEED THRU LUGS: YES | |
| | LOAD TYPE (KVA) | | | | CB | CKT | | CKT | CB | LOAD TYPE (KVA) | | | | |
| CIRCUIT DESCRIPTION | LTG | REC | MTR | NCL | AMP/P | # | PH | # | AMP/P | LTG | REC | MTR | NCL | CIRCUIT DESCRIPTION |
| INTERIOR LIGHTING 1ST & 3RD BASE | | 0.23 | | | 20A/1P | 1 | A | 2 | 20A/1P | | 0.01 | | | OUTDOOR LIGHTING BATTING CAGE |
| INDOOR RECEPTACLE 1ST & 3RD BASE | | 0.36 | | | 20A/1P | 3 | B | 4 | 20A/1P | | 0.36 | | | INDOOR RECEPTACLE 3RD BASE |
| OUTDOOR RECEPTACLE BATTING CAGE | | 0.36 | | | 20A/1P | 5 | C | 6 | 20A/1P | | 0.18 | | | INDOOR RECEPTACLE 1ST BASE |
| OUTDOOR RECEPTACLE BATTING CAGE | | 0.18 | | | 20A/1P | 7 | A | 8 | 20A/1P | | | | | |
| | | | | | 20A/1P | 9 | B | 10 | 20A/1P | | | | | |
| | | | | | 20A/1P | 11 | C | 12 | 20A/1P | | | | | |
| | | | | | 20A/1P | 13 | A | 14 | 20A | | | | | |
| | | | | | 20A | 15 | B | 16 | | | | | | |
| | | | | | 2P | 17 | C | 18 | 3P | | | | | |
| | 0 | 1.13 | 0 | 0 | | | | | | 0 | 0.55 | 0 | 0 | |

| LOAD SUMMARY | CONNECTED KVA | DEMAND FACTOR | DEMAND KVA |
|---|---|---|---|
| (LTG) LIGHTING X 125% | 0 | 1.25 | 0.0 |
| (REC) RECEPTS PER 220.44; 10KVA x 100% + REMAINDER x 50% | 1.7 | 1.00 | 1.7 |
| (MTR) LARGEST MOTOR X 125% + REMAINING MOTORS x 100% | 0.0 | 0.50 | 0.0 |
| (NCL) NON CONTINOUS LOAD x 100% | 0.0 | 1.25 | 0.0 |
| | 0.0 | 1.00 | 0.0 |

| | Yes/No |
|---|---|
| FULL RATED AIC | Y |
| SERIES RATED AIC | N |
| SURGE PROTECTIVE DEVICE | N |
| COPPER BUSSING | Y |
| ALUMINUM BUSSING | N |

| | |
|---|---|
| KVA PHASE A (CONNECTED) | 0.4 |
| KVA PHASE B (CONNECTED) | 0.7 |
| KVA PHASE C (CONNECTED) | 0.5 |
| TOTAL DEMAND KVA | 1.7 |
| TOTAL LOAD AMPERES | 4.7 |

1 / E5.1 **ELECTRICAL SINGLE LINE DIAGRAM**
NOT TO SCALE




NOTES:

1. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED FOR GROUNDING OR BONDING OF EQUIPMENT, STRUCTURES OR FRAMES REQUIRED TO BE GROUNDED OR BONDED(250.32(B)). PROVIDE ALL OF THE CONNECTIONS BELOW AND BOND TO THE EQUIPMENT GROUNDING CONDUCTOR.
2. GROUNDING ELECTRODE CONDUCTOR. GROUNDING ELECTRODE CONDUCTOR SHALL BE BARE OR INSULATED COPPER AND SHALL BE SIZED PER TABLE 250.66.
3. NOT USED.
4. EQUIPMENT BONDING JUMPER. EQUIPMENT BONDING JUMPER SHALL BE INSULATED COPPER AND SHALL BE SIZED PER TABLE 250.122.
5. PROVIDE A MINIMUM OF (1) GROUND ROD. GROUND ROD SHALL BE 10' LONG BY ¾" DIAMETER COPPERCLAD. GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED TO THE GROUND ROD VIA EXOTHERMIC WELD. GROUND RODS SHALL BE INSTALLED IN A ROUND BOX. SEE DETAIL FOR BOX/INSTALLATION REQUIREMENTS. (PROVIDE FOR ALL NEW BUILDINGS. FOR EXISTING BUILDINGS PROVIDE WHEN ALL OTHER GROUNDING ELECTRODES ARE NOT AVAILABLE)
6. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE NEAREST UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR A MINIMUM OF 10 FEET. WATER PIPE SHALL BE ELECTRICALLY CONTINUOUS TO POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR. CONNECTION POINT SHALL NOT BE GREATER THAN 5' FROM THE POINT OF ENTRANCE OF THE UNDERGROUND WATER PIPE. (PROVIDE FOR ALL NEW AND EXISTING BUILDINGS WHERE UNDERGROUND WATER PIPE IS AVAILABLE)
7. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE NEAREST METAL FRAME OR STRUCTURAL STEEL. (PROVIDE FOR ALL NEW AND EXISTING BUILDINGS WHERE METAL FRAME OR STRUCTURAL STEEL IS AVAILABLE)
8. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO ALL OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES, AS REQUIRED WHEN AVAILABLE.
9. PROVIDE A CONCRETE ENCASED ELECTRODE (UFER) IN AND NEAR THE BOTTOM OF THE STRUCTURAL FOOTING OR SLAB ON GRADE THAT IS IN DIRECT CONTACT WITH EARTH. THE ELECTRODE SHALL BE A MINIMUM OF 20 FEET LONG INSIDE THE PAD, FOOTING OR SLAB. THE ELECTRODE CONDUCTOR SHALL BE BARE COPPER AND SIZED PER TABLE 250.66 BUT SHALL NOT BE LESS THAN #4AWG. (PROVIDE ONLY FOR NEW BUILDINGS)
10. INCOMING SERVICE FROM THE MAIN SWITCHBOARD. SEE SINGLE LINE DIAGRAM FOR PHASE, NEUTRAL AND EQUIPMENT GROUNDING CONDUCTOR SIZING.
11. NOT USED.
12. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE SECONDARY SIDE OF ALL PVE CONNECTED BUILDING TRANSFORMERS. GROUNDING ELECTRODE CONDUCTOR MAY BE CONNECTED TO THE NEAREST STRUCTURAL STEEL OR THE MAIN SERVICE GROUNDING ELECTRODE ONLY. SEE TRANFORMER GROUNDING DETAIL FOR ADDITIONAL REQUIREMENTS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL GROUNDING AND BONDING AS REQUIRED PER THE CEC.
14. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2 / E5.1 **SEPARATE BUILDING STRUCTURES GROUNDING DETAIL**
NOT TO SCALE

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DATE: 04/10/2020

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KEYMAP

SHEET TITLE
ELECTRICAL SINGLE LINE DIAGRAM

PROJECT NAME
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STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

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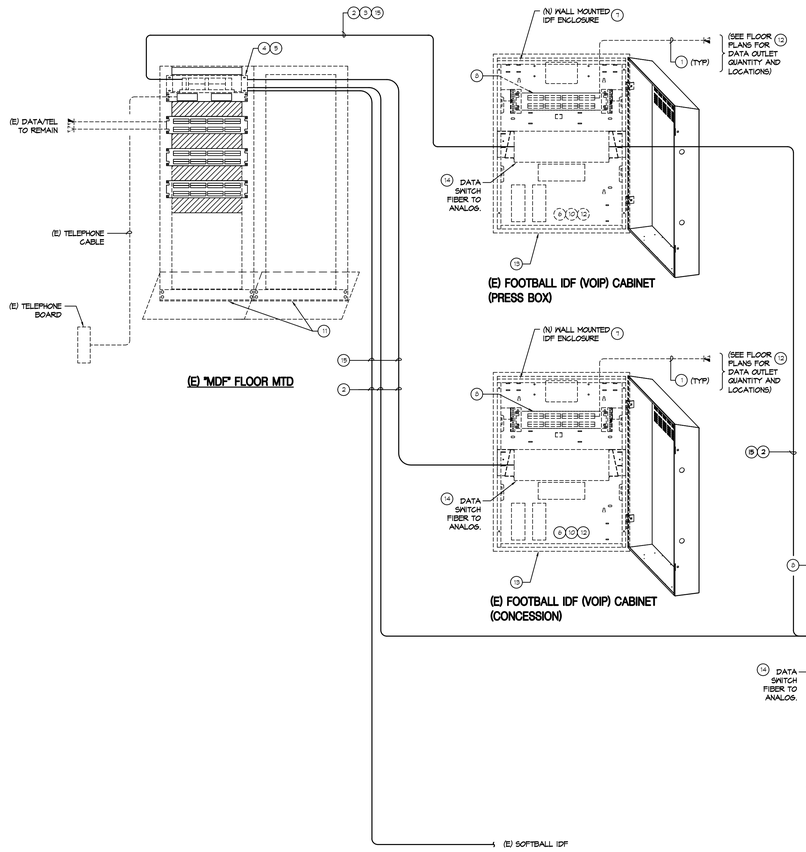
DATE ISSUED: 03/27/20
SCALE:
PROJ. NO.: 1910900-1211
SHEET NO.: E5.1 OF #

ELECTRICAL SINGLE LINE DIAGRAM

DRAWING NAME: L:\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\ATHLETIC FACILITY\E5.1_Single Line Diagram.dwg
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay

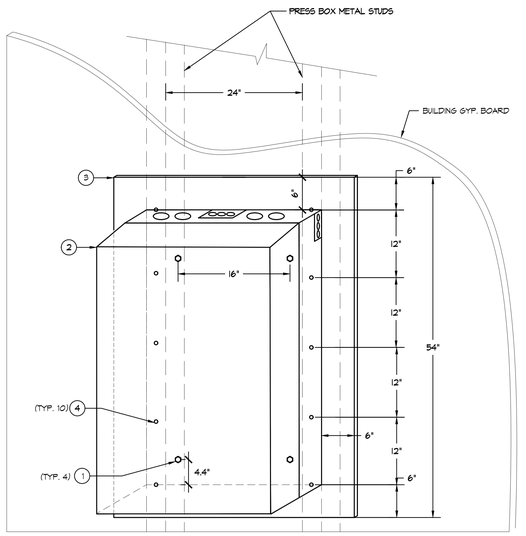



## GENERAL NOTES:

1. ALL LOW VOLTAGE CABLES SHALL BE ROUTED IN CONDUIT IN NON ACCESSIBLE CONCEALED CEILING SPACES. PROVIDE J-HOOKS AT 4'-0" OC. AS REQUIRED FOR ROOM AREAS WITH ACCESSIBLE T-BAR CEILING SPACES. SEE DETAIL FOR J-HOOK MOUNTING REQUIREMENTS.
2. (E) SYSTEM IS VOIP. CONTRACTOR SHALL HAVE MINIMUM 5 YEARS EXPERIENCE IN INSTALLING AND TESTING VOIP SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR A FULLY COMPLETE OPERATIONAL SYSTEM.

## DATA SYSTEM NOTES:

1. DATA JACK / PORT REQUIREMENTS TO INTERMEDIATE DISTRIBUTION FRAME (IDF) OR MAIN DISTRIBUTION FRAME (MDF)
   A. INSTALL CATEGORY 6 CABLE IN CONDUIT AND/OR J-HOOKS FROM EACH PORT, DATA LOCATION WHERE SHOWN ON PLANS TO THE NEAREST DESIGNATED IDF/MDF LOCATION, U.O.N. MAKE TERMINATIONS AT BOTH DATA OUTLET AND IDF/MDF LOCATION.
      1. ROUTE CABLE DIRECTLY FROM STATION TO IDF / MDF LOCATION WITHOUT SPLICE OR INTERRUPTION.
      2. ALL DATA STATION CABLES TERMINATED IN THE IDF / MDF WILL BE PLACED INTO MODULAR 48 PORT CAT. 6 PATCH PANELS.
      3. PROVIDE CAT 6 568B RJ45 MODULAR JACK (QUANTITY AS REQUIRED)
         a. MAKE TERMINATIONS AT IDF / MDF LOCATION ON (N) PANDUIT 568B PATCH PORT PANEL. PROVIDE ALL ADDITIONAL HARDWARE AS REQUIRED.
         b. LEAVE 36 INCHES OF EXCESS CABLE AT THE IDF LOCATION, BEFORE MAKING TERMINATIONS, FOR USE AS A SERVICE LOOP. SECURE EXCESS CABLE IN A NEAT WORKMANLIKE MANNER.
      4. ALL CAT 6 CABLES ARE TO BE TESTED FOR COMPLIANCE WITH CAT 6, USING A HAND HELD NETWORK SCANNER. HARD COPY AND SOFT COPY RESULTS ARE TO BE PROVIDED FOR ALL JACKS TESTED. NETWORK ANALYZER IS TO BE A FLUKE DSP 4500 OR OWNER APPROVED EQUIVALENT. SOFT COPY RESULTS TO BE PROVIDE ON A WINDOW 98 OR LATER COMPATIBLE DISK.
      5. ANY EMPTY RJ45 JACK OPENING ON THE FACE PLATE WILL BE COVERED WITH BLANK INSERT, LEVINGTON DEVICE.
      6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. INTERMEDIATE DISTRIBUTION FRAME (IDF) TO MAIN DISTRIBUTION FRAME (MDF).
   A. INSTALL FIBER OPTIC CABLE IN CONDUIT FROM IDF LOCATIONS TO MDF LOCATION. MAKE TERMINATIONS AT BOTH ENDS OF CABLE WITH "SC" TYPE CONNECTORS.
      1. ROUTE CABLE DIRECTLY FROM IDF TO MDF LOCATION WITHOUT SPLICE OR INTERRUPTION.
      2. CONDUIT SHALL HAVE NO MORE THAN (2) 90 DEGREES BENDS. PROVIDE PULL BOXES WHERE NECESSARY TO LIMIT THE NUMBER OF CONDUIT BENDS AND ASSIST IN PULLING CABLE.
      3. FIBER OPTIC CABLE SHALL BE (12) STRAND MULTI-MODE FIBER, OUTSIDE PLANT DISTRIBUTION, LOOSE TUBE, GEL FILLED. MANUFACTURER: BERK-TEK OPD012-68551012S 6/6ALITE FIBER OPTIC OR SIECORE/CORNING 012K94-41150A2Q ALTOS II ALL-DIELECTRIC OR EQUAL.
      4. MAKE TERMINATIONS AT THE IDF LOCATION ON LEVITON RACK MOUNT FIBER OPTIC PATCH PANEL. MAKE TERMINATIONS AT THE MDF ON (N) LEVITON RACK MOUNTED FIBER OPTIC PATCH PANEL.
         a. LEAVE 15' OF THE EXCESS FIBER OPTIC CABLE AT THE IDF AND 15' OF EXCESS FIBER OPTIC CABLE AT THE MDF LOCATIONS BEFORE MAKING TERMINATIONS, FOR USE AS A SERVICE LOOP. SECURE EXCESS CABLE IN A NEAT WORKMANLIKE MANNER. ALL TERMINATED FIBER OPTIC CABLES IN IDF SHALL NOT EXCEED 12 STRANDS OR 6 PAIRS.
         b. F.O. TERMINATION OF MDF SHALL BE TERMINATED TO A 6U RACK MOUNT FIBER ENCLOSURE - LEVITON PART #5R960-OCN WITH SC CONNECTIONS/INSERTS.
      5. ALL FIBER OPTIC STRANDS ARE TO BE TESTED BI-DIRECTIONALLY AT BOTH 850nm AND 1300nm WAVELENGTH. TESTS ARE TO BE PERFORMED USING AN OPTICAL POWER METER AND LIGHT SOURCE OR AN OTDR TO MEASURE ATTENUATION FROM COUPLET-TO-COUPLER AT THE DISTRIBUTION PANELS. NO STRAND IS TO EXHIBIT MORE THAN 3.75 dB/km AT 850nm AND 1.5 dB/km AT 1300nm.
      6. ALL FIBER OPTIC CABLE RUNS WILL BE TESTED AND DOCUMENTATION PROVIDED TO SHOW THAT EACH STRAND MEETS OR EXCEEDS THE EIA/TIA-455 STANDARDS. PROVIDE RECORDED TEST RESULTS ON ALL CABLES PASSED FOR OWNER'S RECORDS.
      7. CONTRACTOR WILL TEST THE FIBER OPTIC CABLE PRIOR TO INSTALLATION TO CHECK FOR DEFECTS. IF THE CONTRACTOR DOES NOT TEST THE FIBER, AND DEFECTS ARE FOUND THAT REQUIRE THE CABLE TO BE REPLACED, THE CONTRACTOR IS RESPONSIBLE FOR THE CABLE.
      8. CONTRACTOR WILL TEST THE INSTALLED FIBER OPTIC CABLES AND DOCUMENT EACH STRAND'S RESULT. IF ANY STRANDS ARE FOUND TO BE OUT SPECIFICATION, THE CONTRACTOR WILL REPAIR THE STRANDS TERMINATION AS NEEDED OR REPLACE CABLE IF REQUIRED. THE CONTRACTOR WILL RETEST AFTER REPAIRS.
3. INSTALL (2) 25 PAIR CAT 5 GEL FILLED CABLES FOR TELEPHONE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
   1. ALL MULTI-PAIR COPPER CABLE RUNS WILL BE TESTED AND DOCUMENTED.
   2. CONTRACTOR MUST SHOW RESULTS FOR THE FOLLOWING TESTS:
      a. CONTINUITY FOR ALL WIRES IN THE CABLE.
      b. CORRECT PAIR ORDER FOR ALL PAIRS TERMINATED OR REPLACED.
   3. ANY CABLES NOT PASSING MUST BE REPAIRED OR REPLACED.
   4. THE CATEGORY 5 VOICE FEEDER CABLES BETWEEN THE (E) 66C TELEPHONE RACK AND MDF RACK SHALL BE UNSHIELDED TWISTED PAIR, 25 PAIR, 24 AWG SOLID CONDUCTORS CABLES FROM ESSEX OR EQUIVALENT AS APPROVED BY OWNER. COIL ABOUT 10' OF CABLE IN EACH END.
4. ADJUST (E) FIBER PATCH PANELS AS NEEDED TO FIT NEW. FIELD LOCATE AND PROVIDE MODIFICATIONS AS NEEDED TO EXTEND VOIP SYSTEM.
5. PROVIDE 4x FIBER OPTIC PATCH PANEL TO TERMINATE NEW FIBER OPTIC CABLE.
6. PROVIDE GROUNDING CONNECTION TO BUILDING STEEL AND/OR NEAREST COLD WATER PIPE. MINIMUM GROUNDING CONDUCTOR SHALL BE #4 GU GND.
7. TYPICAL IDF RACK. IDF RACK IN BLDG SHALL BE WALL MOUNTED CABINET RACK HUBBEL #RE42XB.
8. PROVIDE 4x CAT 6 MODULAR PATCH PANEL. QUANTITY AS REQUIRED TO TERMINATE ALL DATA OUTLETS +10% SPARE. PATCH PANELS SHALL BE A 48 PORTS PANEL.
9. PROVIDE (N) HORIZONTAL WIRE MANAGER MODULE.
10. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR (N) CAT 6 WALL RACK PATCH PORTS.
11. EXISTING FLOOR MOUNTED RACK WITH (E) LADDER RACK.
12. PROVIDE (N) VOIP SWITCHES AND HANDSETS. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE OPERATIONAL SYSTEM. COORDINATE WITH DISTRICT IT REPRESENTATIVE ALL REQUIREMENTS NEEDED TO PROVIDE A COMPLETE OPERATIONAL VOIP SYSTEM.
13. ¾" PLYWOOD TO MOUNT NEW IDF ENCLOSURE. INSTALL PER MANUFACTURES RECOMMENDATIONS.
14. PROVIDE CISCO SWITCH 3750 SERIES.
15. PROVIDE A 12PR TELEPHONE CABLE FOR FUTURE SECURITY USE. TELEPHONE CABLE SHALL BE OUTDOOR RATED, USE FOR WET LOCATIONS, CAT 3. ROUTE THE NEW 12PR CABLE IN THE NEW 4"C ALONG WITH FIBER. PROVIDE TELEPHONE CABLE FOR EACH IDF CABINET TO THE (E) MDF ROOM, ON EACH END OF THE TELEPHONE CABLE, COIL ABOUT 10FT. IN LENGTH IN EACH IDF. AT THE (E) MDF, COIL 10FT. IN LENGTH AT THE TELEPHONE 66 BLOCK TERMINALS.

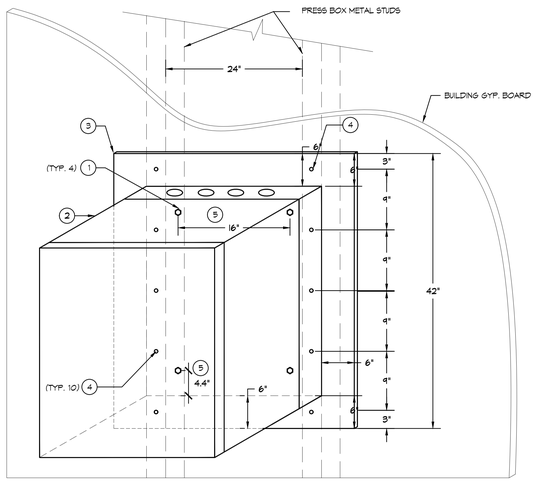



NOTES:

1. (4) ⅜" DIAMETER MACHINE SCREWS THROUGH CABINET BACK AND PLYWOOD WITH STD. CUT WASHERS UNDER ALL BOLT HEADS AND NUTS. USE LOCK-NUTS OR LOCK-WASHER UNDER NUTS
2. (N) IDF CABINET. 42"H X 24.2"W X 10"D. VERIFY DIMENSIONS WITH MANUFACTURER. (MAX WEIGHT 150 LBS)
3. 5/8" PLYWOOD
4. (5) #12 X 2" SELF-DRILLING/TAPPING SCREWS THROUGH PLYWOOD AND GYP. BOARD INTO FLANGES OF TWO STUDS. (10 SCREWS TOTAL). ENSURE SCREWS ARE OF SUFFICIENT LENGTH TO EXTEND AT LEAST THREE THREADS PAST STUD FLANGE.

## 3 IDF INSTALLATION - METAL STUDS

E6.1 NOT TO SCALE




NOTES:

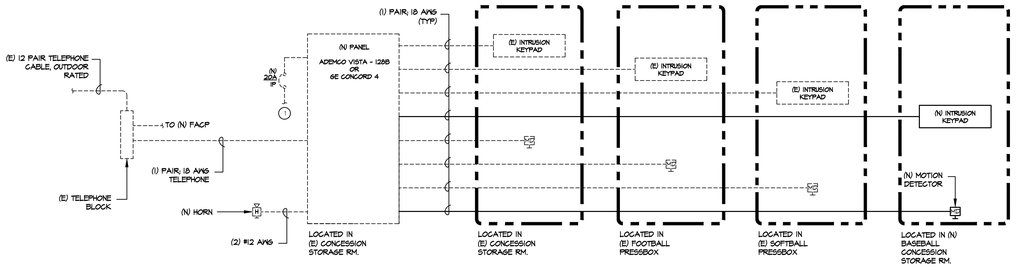
1. (4) ⅜" DIAMETER MACHINE SCREWS THROUGH CABINET BACK AND PLYWOOD WITH STD. CUT WASHERS UNDER ALL BOLT HEADS AND NUTS. USE LOCK-NUTS OR LOCK-WASHER UNDER NUTS
2. VIDEO CABINET. (MAX WEIGHT 250 LBS)
3. 5/8" PLYWOOD
4. (5) #12 X 2" SELF-DRILLING/TAPPING SCREWS THROUGH PLYWOOD AND GYP. BOARD INTO FLANGES OF TWO STUDS. (10 SCREWS TOTAL). ENSURE SCREWS ARE OF SUFFICIENT LENGTH TO EXTEND AT LEAST THREE THREADS PAST STUD FLANGE.
5. CONTRACTOR TO VERIFY EXACT DIMENSIONS WITH CABINET MANUFACTURER.

## 4 IDF CABINET INSTALLATION

E6.1 NOT TO SCALE

## 1 TYPICAL DATA RISER DIAGRAM BASEBALL

E6.1 NOT TO SCALE




## INTRUSION SYSTEM NOTES:

1. PROVIDE DEDICATED OUTLET FOR INTRUSION ALARM CONTROL PANEL EQUIPMENT TO NEAREST ELECTRICAL PANEL. PROVIDE 20A/1P CIRCUIT BREAKER IN PANEL AND CONNECT AS REQUIRED. UPDATE PANEL DIRECTORY.

## 2 TYPICAL INTRUSION ALARM RISER DIAGRAM

E6.1 NOT TO SCALE



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REGISTERED PROFESSIONAL ENGINEER JAMES S. FERRANTELLA E16890 Exp. 06/30/21 ELECTRICAL STATE OF CALIFORNIA

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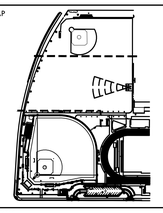

SHEET TITLE

DATA RISER DIAGRAM

PROJECT NAME

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IMPROVEMENTS

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SCALE:
PROJ. NO.: 1910900-1211
SHEET NO.: E6.1 OF #

DATA RISER DIAGRAM

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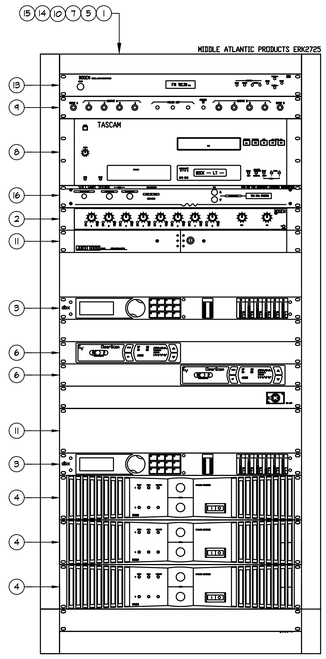
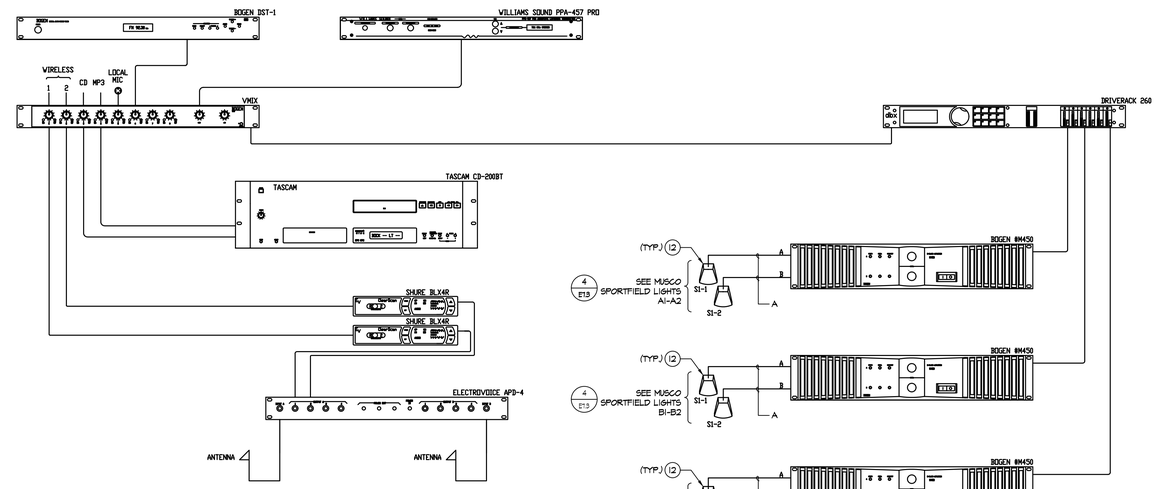
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay




(N) PA SYSTEM FOR BASEBALL FIELD
MAX WEIGHT : 200LBS




## P.A. RISER DIAGRAM NOTES:

1. NEW FLOOR MOUNTED PA RACK. MIDDLE ATLANTIC PRODUCTS ERK 2725 OR APPROVED EQUAL.
2. NEW BOSEN #VMIX MIXER, OR APPROVED EQUAL.
3. NEW dbx #DRIVERACK 260 EQUALIZER, OR APPROVED EQUAL.
4. NEW BOSEN #M450 AMPLIFIER, OR APPROVED EQUAL.
5. NEW BOSEN #DDU250 DESK MICROPHONE, QUANTITY (1), OR APPROVED EQUAL.
6. NEW SHURE #BLX4R WIRELESS MICROPHONE RECEIVER, OR APPROVED EQUAL.
7. NEW SHURE #SM58 HANDHELD WIRELESS MICROPHONE, QUANTITY (2), OR APPROVED EQUAL.
8. NEW TASCAM #CD-200BT CD/BLUETOOTH DECK, OR APPROVED EQUAL.
9. NEW SHURE WIRELESS MICROPHONE APLIFIER/ANTENNA SYSTEM, OR APPROVED EQUAL.
10. NEW MIDDLE ATLANTIC #PD-415R POWER STRIP, OR APPROVED EQUAL.
11. NEW MIDDLE ATLANTIC #UD-3 SLIDING DRAWER, OR APPROVED EQUAL.
12. NEW APOGEE #AH14-12ST WEATHER PROOF SPEAKER, QUANTITY (2), OR APPROVED EQUAL.
13. NEW BOGEN DST-1 RADIO TUNER DECK, OR APPROVED EQUAL.
14. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
15. PROVIDE QUANTITY OF CABLES AS REQUIRED BY THE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND PROPERLY SIZING ALL CABLES PER THE PA SYSTEM MANUFACTURERS REQUIREMENTS.
16. ASSISTIVE LISTENING SYSTEM. SEE SPECS FOR REQUIREMENTS.

## CABLE SCHEDULE:

A- WESTPENN #A92246 (2 CONDUCTOR #12 AWG OUTDOOR RATED SPEAKER CABLE)

1 / E6.2 **TYPICAL PA RISER DIAGRAM (BASEBALL)**

NOT TO SCALE



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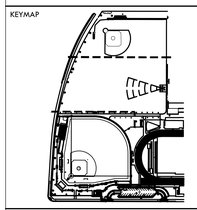
KEYMAP



SHEET TITLE

TYPICAL PA RISER DIAGRAM (BASEBALL)

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
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| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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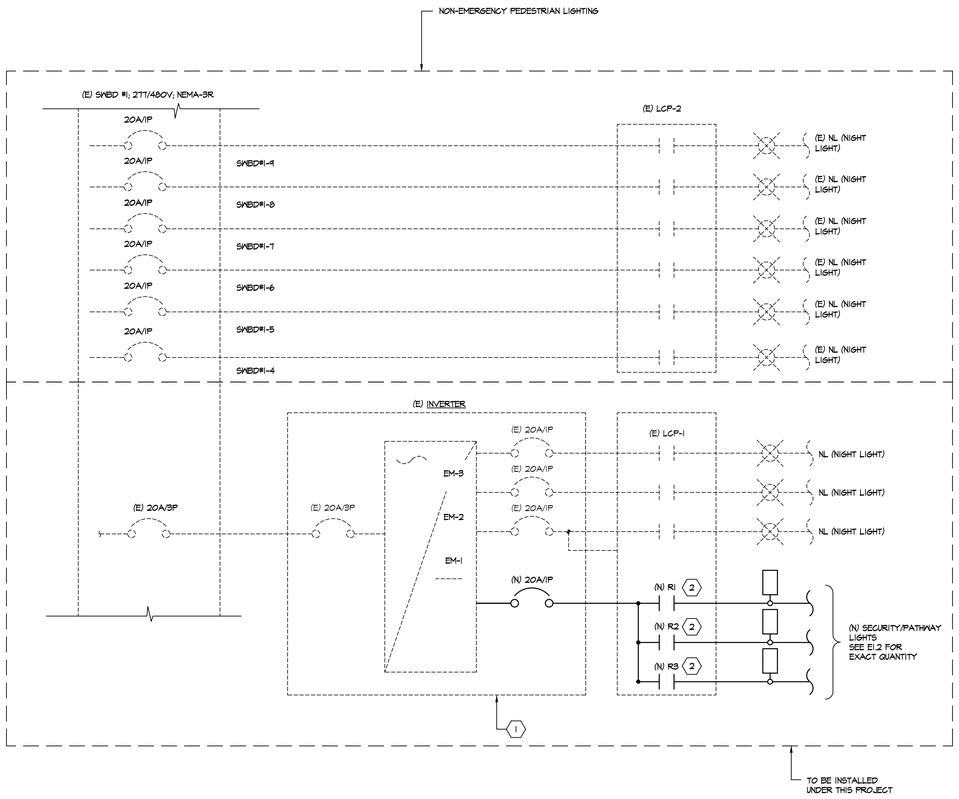
| DRAWN BY | CHECKED BY |
|---|---|
| MG | SB/ SF |
| DATE ISSUED: 03/27/20 | SCALE: |

PROJ. NO.: 1910900-1211

SHEET NO.: E6.2 OF #

DRAWING NAME: L:\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\ATHLETIC FACILITY\E6.2_Football PA Riser Diagram.dwg
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay




## SHEET NOTES

1. CONTRACTOR SHALL TEST EXISTING BATTERIES WITH NEW LOADS. CONTRACTOR SHALL CHANGE BATTERIES AND SHALL BE MYERS RECOMMENDED BATTERIES.
2. PROVIDE NEW CONTACTOR IS (E) LCP. CONTRACTOR SHALL MATCH (E) CONTACTORS

## 1 INVERTER AND LCP WIRING DIAGRAM (TYPICAL)

E6.3 NOT TO SCALE



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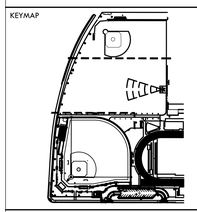

SHEET TITLE

INVERTER AND LCP WIRING DIAGRAM (TYPICAL)

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

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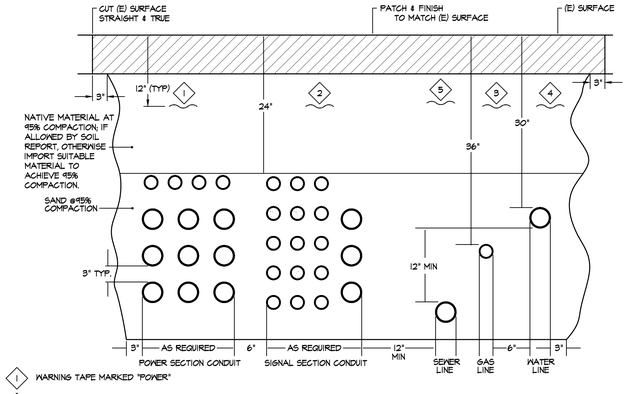
| PROJ. NO.: 1910900-1211 | |
| SHEET NO.: E6.3 | OF # |



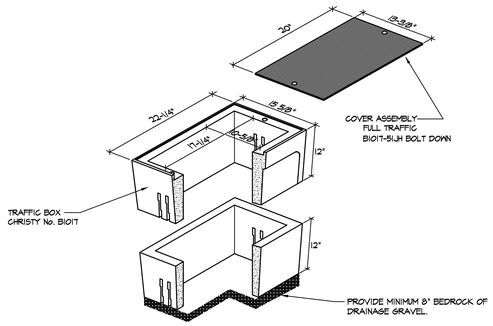

1. WARNING TAPE MARKED "POWER"
2. WARNING TAPE MARKED "SIGNAL"
3. WARNING TAPE MARKED "GAS"
4. WARNING TAPE MARKED "WATER"
5. WARNING TAPE MARKED "SEWER"

NOTES:

1. ALL ELECTRICAL TRENCH WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
2. MINIMUM SPACING BETWEEN CONDUITS IS 3".
3. SEE SITE/FLOOR PLANS AND SPECIFICATIONS FOR CONDUIT REQUIREMENTS.

## 1 TYPICAL JOINT TRENCH & DUCT BANK DETAIL

E7.1 NOT TO SCALE

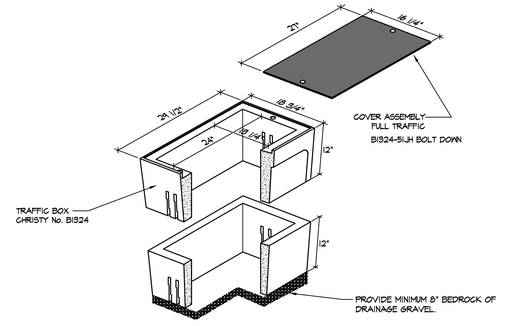



NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. PROVIDE 8" CONCRETE SLURRY AROUND BOX.
6. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.

## 2 B1017 ELECTRICAL VAULT

E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

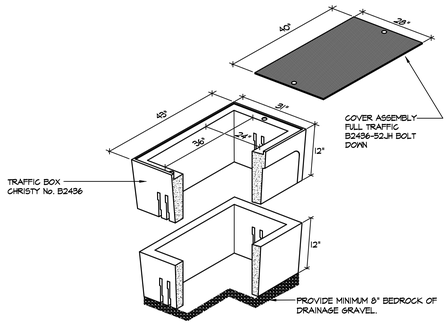



NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. PROVIDE 8" CONCRETE SLURRY AROUND BOX.
6. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.

## 3 B1324 ELECTRICAL VAULT

E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

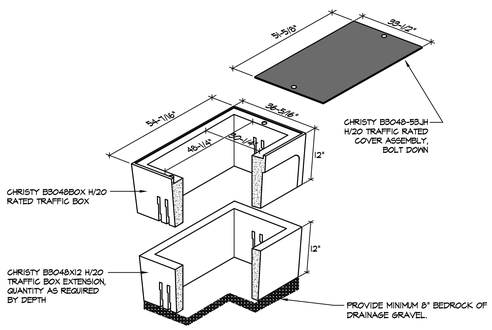



NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. PROVIDE 8" CONCRETE SLURRY AROUND BOX.
6. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.

## 4 B2436 ELECTRICAL VAULT

E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

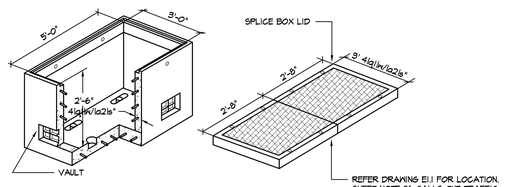



NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. PROVIDE 8" CONCRETE SLURRY AROUND BOX.
6. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.

## 5 B3048 TRAFFIC BOX DETAIL

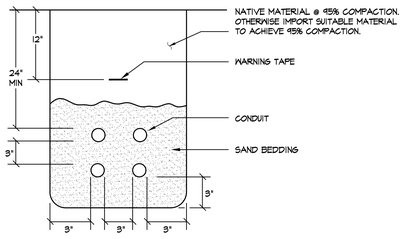
E7.1 NOT TO SCALE (FULL TRAFFIC COVER)




A HEAVY DUTY REINFORCED CONCRETE BOX WITH STANDARD KNOCKOUTS AND PULLING IRONS MADE IN CONFORMANCE WITH P G & E REQUIREMENTS.

## 6 3' X 5' ELECTRICAL VAULT

E7.1 NOT TO SCALE




## 7 TYPICAL TRENCH DETAIL

E7.1 NOT TO SCALE



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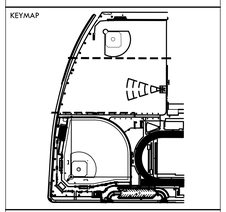

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ELECTRICAL DETAILS

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ATHLETIC FACILITY IMPROVEMENTS

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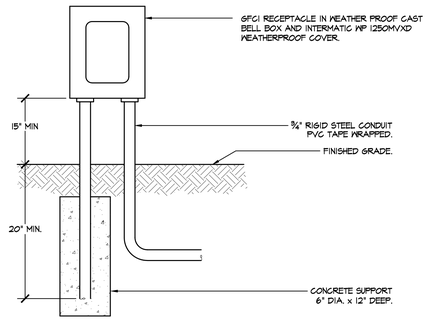
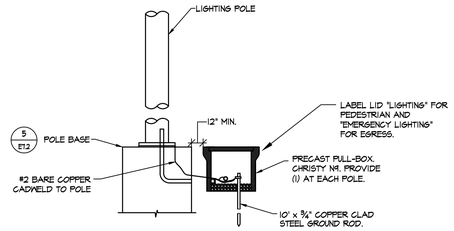



## 1 RECEPTACLE PEDESTAL DETAIL

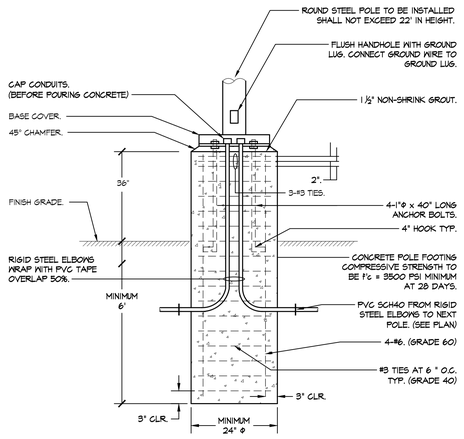
E7.2 NOT TO SCALE




## 2 TYPICAL WALKWAY LIGHTING POLE BASE GROUNDING DETAIL

E7.2 NOT TO SCALE

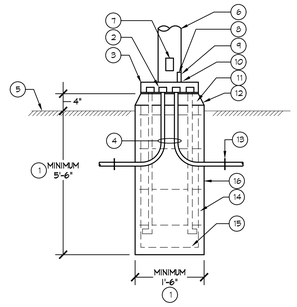
"EXEMPT FROM DSA
REVIEW PER DSA IR-22"




## 5 TYPICAL RAISED POLE BASE DETAIL

E7.2 NOT TO SCALE

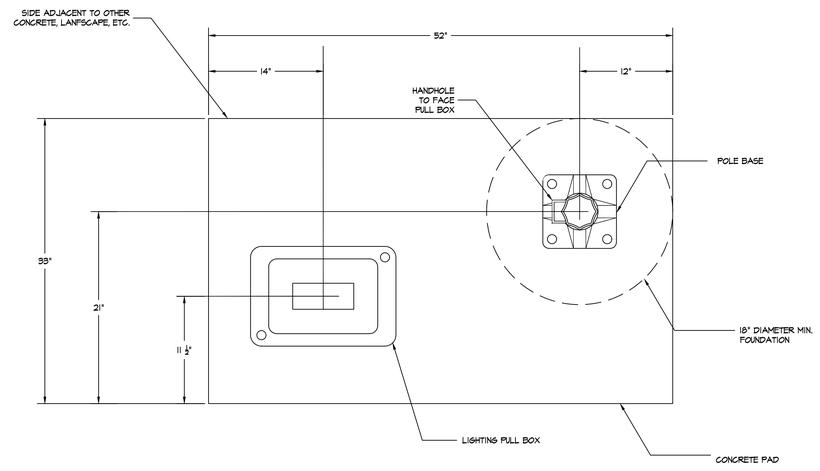
"EXEMPT FROM DSA
REVIEW PER DSA IR-22"




1. CONTRACTOR SHALL ENGAGE FOUNDATION DESIGNER. POLE BASE FOUNDATION & REBAR SHALL BE DESIGNED BY QUALIFIED FOUNDATION DESIGNER WHO IS FAMILIAR WITH SOIL CONDITIONS AND POLE LOADING.
2. CAP CONDUITS. (BEFORE POURING CONCRETE)
3. BASE COVER.
4. RIGID STEEL ELBOWS WRAP WITH PVC TAPE OVERLAP 50%.
5. FINISH GRADE.
6. LUMINAIRE POLE.
7. HAND HOLE.
8. GROUNDING LUG.
9. GROUND CONDUCTOR.
10. BUSHING.
11. ANCHOR BOLTS - VERIFY BOLT SIZE & BOLT CIRCLE WITH POLE MANUFACTURER.
12. GROUT.
13. PVC SCH40 FROM RIGID STEEL ELBOWS TO NEXT POLE. (SEE PLAN)
14. VERT REBAR. (#4 GRADE 40 MINIMUM)
15. TIES REBAR. (#4 GRADE 40 MINIMUM)
16. CONCRETE BASE, MINIMUM 3500 PSI. (COMPRESSIVE STRENGTH - 28 DAYS MINIMUM)

## 6 FLUSH POLE BASE DETAIL

E7.2 NOT TO SCALE




## 7 CONCRETE PAD FOR LIGHT POLE AND PULL BOX

E7.2 NOT TO SCALE



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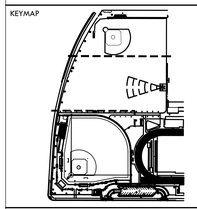

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STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

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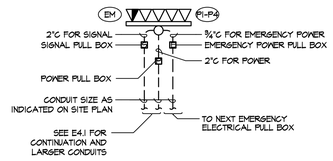
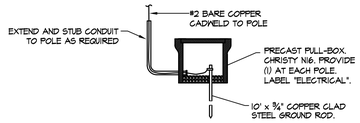



## 1 POLE BASE CONDUIT ENRTY DETAIL

E7.3 NOT TO SCALE

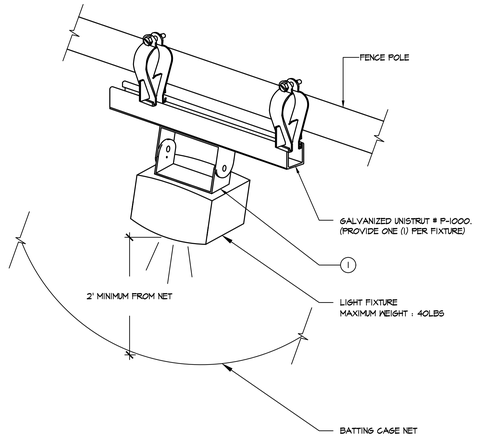
NOTE:

IN GRADE BOXES NEED TO BE COORDINATED WITH LANDSCAPE CONTRACTOR AND ARCHITECT TO ENSURE FLAT SURFACE DUE TO LOCATION BOXES NOTED TO BE IN RIGHT ANGLE WITH CONCRETE PAVING. SEE LANDSCAPE DRAWINGS FOR REQUIREMENTS.



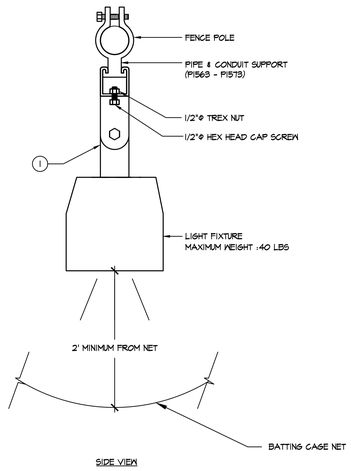

## 2 FIELD LIGHTING GROUNDING BOX DETAIL

E7.3 NOT TO SCALE




## FIXTURE MOUNTING NOTES:

(1) THE G BRACKETS' ROTATION AND ANGLES OF INSTALLATION SHALL BE ADJUSTED TO MAKE THE LIGHT FIXTURE STRAIGHT OR LEVEL TO THE GROUND.

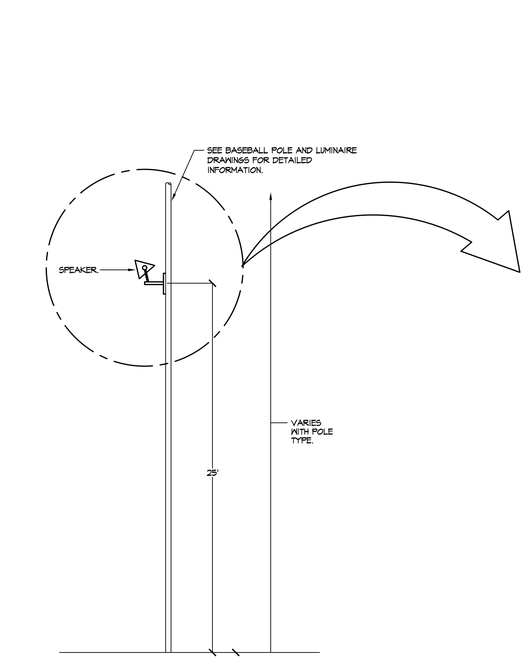


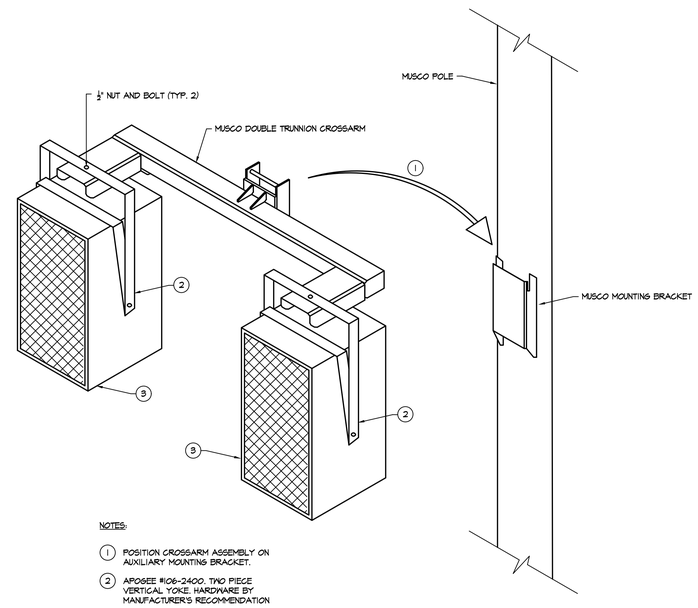

SIDE VIEW

## 3 FIXTURE MOUNTING ON BATTING CAGE

E7.3 NOT TO SCALE

NOTE: FUTURE BLEACHER UNDER INCREMENT #2 OF THIS PROJECT




NOTES:

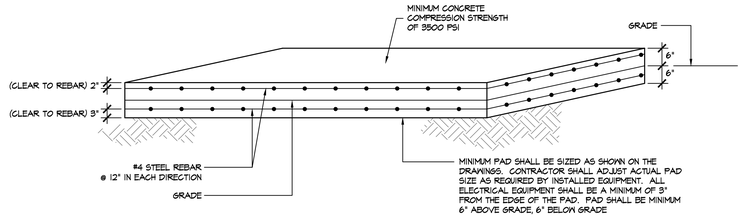
(1) POSITION CROSSARM ASSEMBLY ON AUXILIARY MOUNTING BRACKET.

(2) APOGEE #106-2400. TWO PIECE VERTICAL YOKE. HARDWARE BY MANUFACTURER'S RECOMMENDATION

(3) APOGEE AFI-4MWSK OUTDOOR SPEAKERS WITH YOKE MOUNTING ARM. SPEAKERS TO BE MOUNTED AT 40' ABOVE GRADE. WEIGHT OF EACH SPEAKER IS APPROX. 53 LBS.

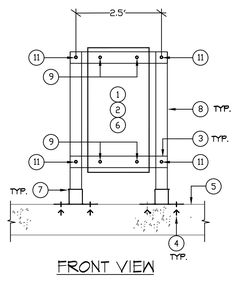
## 4 TYPICAL ELEVATION DETAIL

E7.3 NOT TO SCALE

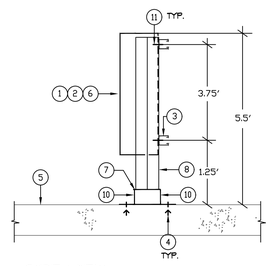



## 5 CONCRETE ELECTRICAL EQUIPMENT PAD

E7.3 NOT TO SCALE




FRONT VIEW




SIDE VIEW

(1) MUSCO CONTROL PANEL **(MAX WEIGHT : 200 LBS.)**

(2) LIGHTING CODE PANEL WITH 24"X30"X8" NEMA 3R ENCLOSURE. ENCLOSURE SHALL BE LOCATED.

(3) PROVIDE UNISTRUT P1000 MINIMUM 12 GA GALV STEEL.

(4) PROVIDE STAINLESS STEEL 1/2"ø x 2-3/8" MINIMUM EMBEDMENT KWIK BOLT TZ WEDGE ANCHOR (ICC-ES-ESR 1917), IN MINIMM 2-5/8" DEEP HOLE. (4) ANCHOR BOLTS PER POST BASE.

(5) CONCRETE PAD. SEE 5/ET.3 FOR ADDITIONAL INFORMATION.

(6) DIMENSIONS OF PANEL 48"H x 24"W x 10"D

(7) PROVIDE UNISTRUT FLOOR SUPPORT P2073A POST BASE.

(8) PROVIDE DOUBLE UNISTRUT P1001 H5 MINIMUM 12 GA GALV STEEL.

(9) PROVIDE HEX HEAD CAP SCREWS 3/8"x2" WITH HEX NUTS AND WASHERS. (4) CAP SCREWS ARE FOR ATTACHMENT OF PANEL TO REAR STRUTS.

(10) PROVIDE (2) 1/2" GALV BOLTS FROM P2073A POST BASE INTO VERTICAL UNISTRUT P1001. PROVIDE EACH BOLT WITH P1010 NUT INSIDE STRUT. TYPICAL FOR BOTH P2073A POST BASE.

(11) PROVIDE 1/2"ø GALV BOLT FASTENERS AT EACH INTERSECTION.

## 6 MUSCO CONTROL PANEL INSTALLATION ON UNISTRUT DETAIL

E7.3 NOT TO SCALE



DRAWING NAME: L:\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\ATHLETIC FACILITY\E7.3_Electrical Details.dwg
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay

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E16890
Exp. 06/30/21
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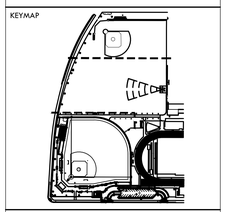
Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # E19146.00
408/236-2312
Fax: 408/236-2318

KEYMAP



SHEET TITLE

ELECTRICAL DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY
IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
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| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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SHEET NO.
E7.3 OF #

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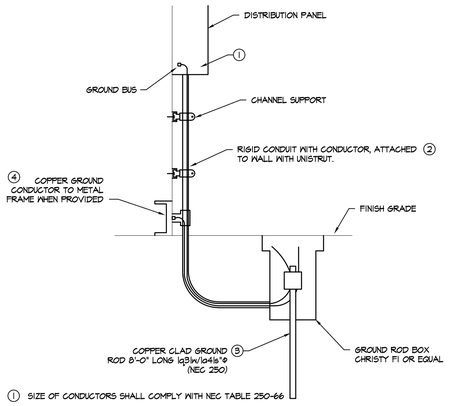
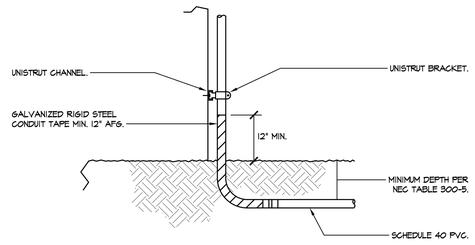



1. SIZE OF CONDUCTORS SHALL COMPLY WITH NEC TABLE 250-66
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC 250-50). IN ADDITION TO DETAIL ABOVE, BOND THE ELECTRICAL GROUND TO NEAREST METALLIC COLD WATER PIPE. (NEC 250-50)
3. CHECK RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS AS REQUIRED. (NEC 250-56)
4. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOT ACCEPTABLE BONDING)

## 1 TYPICAL GROUND INSTALLATION

E7.4 NOT TO SCALE

NOTE: GROUNDING TEST MUST BE BY INDEPENDENT LICENSED ELECTRICAL CONTRACTOR OR TESTING LABORATORY.

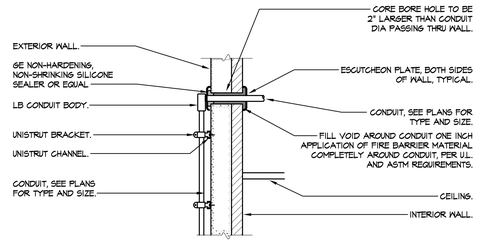



NOTE:

1. FOR WOOD STUD WALL: USE 1@3/8"@A315"ø LAG BOLT WITH MIN. 1@3"@A415" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)
2. FOR CONCRETE WALL: 1@1"@A215"ø HILTI KWIK-BOLT TZ STAINLESS STEEL ANCHOR (ICC ESR-1917) WITH MINIMUM EMBEDMENT OF 3-1@5"@A315" IN 4" DEEP HOLE. 1@1"@A215"ø ANCHORS SHALL BE TORQUE-TESTED TO 40 FT-LBS, WHICH MUST BE ATTAINED WITHIN ONE-HALF TURN OF NUT AFTER FIRM CONTACT WITH ANCHOR WASHER. INSTALL ANCHOR PER CBC 1913A.7 AND RECOMMENDATIONS IN MANUFACTURER'S ESR REPORT. ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION. (TYPICAL OF (4) PER SECTION)

## 2 UNDERGROUND CONDUIT RISER DETAIL

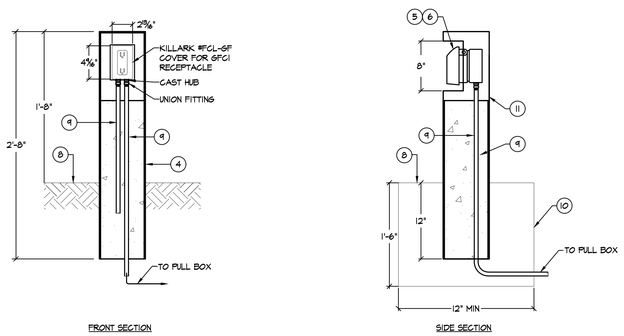
E7.4 NOT TO SCALE




NOTE:
PER U.L. FIRE RESISTANCE DIRECTORY SYSTEM WL1002

## 3 CONDUIT WALL PENETRATION DETAIL

E7.4 NOT TO SCALE

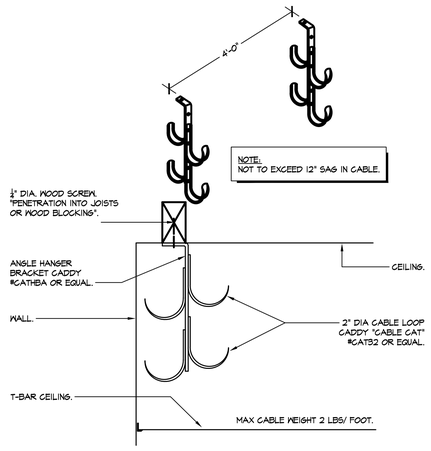



NOTES:

1. HAGER #1941 EXTRA DUTY HINGE, WELD TO TUBE.
2. STAPLE WELD TO TUBE.
3. 6"x6"x0.188" PLATE STEEL TOP. WELD, GROUND SMOOTH.
4. 6"Wx6"Dx0.188" THICK WALL STEEL TUBE.
5. GFCI DUPLEX RECEPTACLE, FS SINGLE GANG CAST OUTLET BOX AND INTERMATIC KP1010MXD
6. PROVIDE LABEL OF CIRCUIT NUMBER AND PANEL ON FACE OF COVER PLATE PER NEC.
7. ¼" DIA WEEP HOLE.
8. FINISHED GRADE.
9. ¾" RSC.
10. CONCRETE FOOTING.
11. PAINT INTERIOR AND EXTERIOR. 1 COAT PRIME, 1 COAT FINISH PAINT OF INDUSTRIAL MAINTENANCE COATING M28 DTM ACRYLIC BLACK ENAMEL FINISH COAT. COORDINATE WITH ARCHITCT PAINT FINISHES.

## 5 RECEPTACLE PEDESTAL DETAIL

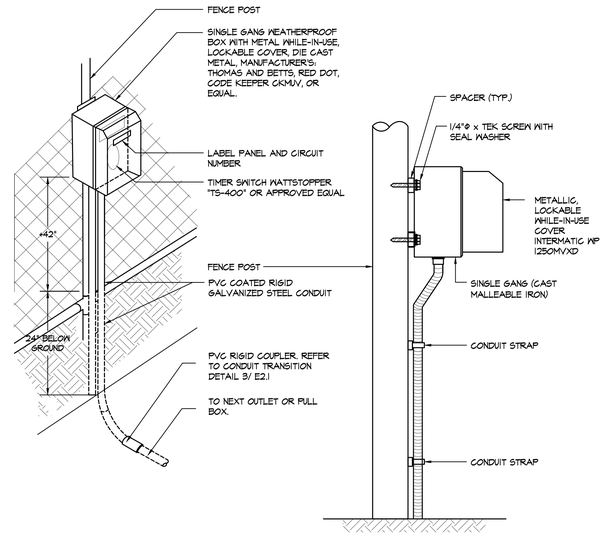
E7.4 SCALE: NOT TO SCALE




NOTE:
EACH SYSTEM (DATA, TEL, CATV, PA/CLOCK, SEC, EMS) SHALL HAVE A DEDICATED J-HOOK SUPPORT, U.O.N. CONDUIT THROUGH NON-ACCESSIBLE CEILING AND PENETRATION THROUGH WALL SHALL BE PROVIDED AS REQUIRED, U.O.N.

## LOW VOLTAGE CABLE SUPPORT DETAIL

4 E7.4 NOT TO SCALE




## 6 RECEPTACLE MOUNTING

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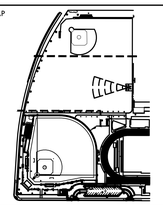

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E7.4 OF #

ELECTRICAL DETAILS



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PLOT DATE: 03-27-20 PLOTTED BY: sbuhay

# PUBLIC SCHOOL FIRE ALARM SYSTEM GENERAL NOTES:

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760, CA ELEC. CODE. WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760. MINIMUM WIRE SHALL BE TWO (2) #16 AWG FOR INITIATING CIRCUITS AND TWO (2) #12 AWG FOR INDICATING CIRCUITS.
2. WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-B, T24/CEC (i.e. THHN OR EQUAL).
3. UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.
4. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS. MINIMUM CONDUIT SIZE SHALL BE 3/4."
5. THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD.
6. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24.
7. ALL DEVICES SHALL BE "CSFM" LISTED.
8. EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY "CSFM."
9. AUDIBLE ALARM PRODUCED BY THE FIRE ALARM SYSTEM SHALL BE CAPABLE OF PRODUCING A DISTINCTIVE THREE-PULSE TEMPORAL PATTERN FIRE ALARM EVACUATION SIGNAL.
10. AUDIBLE DEVICES TO BE AT LEAST 15 dBA ABOVE THE EQUIVALENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 110 dBA IN TOTAL. %%UTHROUGHOUT:%%U
11. WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.
12. CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS TO THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SUBMIT SUBMITTAL BOOKLET TO ENGINEER PRIOR TO PURCHASE FOR REVIEW. THE FIRE PROTECTION SYSTEM SHALL NOT BE INSTALLED UNTIL SUBMITTAL BOOKLETS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.
13. FINAL TEST SHALL BE MADE WITH DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED OF DATE AND TIME OF FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE. CONTRACTOR SHALL REPEAT TESTING AS NECESSARY UNTIL SATISFACTORY RESULTS ARE ACHIEVED.
14. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS.
15. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL
16. ALL ALARM SIGNALS ARE TO BE TRANSMITTED TO AN APPROVED UL LISTED SUPERVISING STATION AND SHALL COMPLY WITH SB 575 POLICY. FINAL TEST SHALL INCLUDE ALL INFO PER NFPA 72 - 14.6.2.4 READ OUT VERIFICATION FORM FROM CENTER STATION.
17. THE MAXIMUM SPACING OF SMOKE AND HEAT DETECTORS SHALL BE 30 FEET OF SEPARATION. IN THE EVENT AN ACCESSIBLE CEILING SPACE IS DISCOVERED DURING THE COURSE OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE ADDITIONAL HEAT DETECTORS.
18. PROJECT INSPECTOR SHALL FIELD VERIFY CANDELA SETTING ON STROBES DUE TO FIELD ADJUSTABILITY.
19. EACH SIGNALING LINE CIRCUIT FOR FACP IS CAPABLE OF SERVING 159 DETECTORS AND 159 MODULES.
20. PROVIDE A PERMANENT SIGN ON THE EXTERIOR DOOR STATING "FIRE ALARM PANEL" FOR ALL ROOMS WITH REMOTE POWER SUPPLIES OR FACP'S. CONTRACTOR TO PROVIDE FABRICATED NAMEPLATE SIGN. PROVIDE AND OBTAIN APPROVED STANDARDS FROM DISTRICT. PROVIDE SUBMITTALS FOR ARCHITECTS APPROVAL.
21. PROJECT INSPECTOR SHALL VERIFY THAT THERE ARE NO ACCESSIBLE CEILING SPACES FOR THE ROOMS IN THE SCOPE OF WORK.

# PROJECT DESCRIPTION:

1. OCCUPANCY: E, A5, HIGH SCHOOL ATHLETIC FIELD.
2. TYPE OF SYSTEM: (N) FULLY AUTOMATIC FIRE ALARM SYSTEM FOR (N) STADIUM PRESSBOX PORTABLE BUILDING AND CONCESSION/RESTROOM PORTABLE BUILDING. UL CERTIFIED CENTRAL STATION MONITORING.
3. SCOPE OF WORK: PROVIDE NEW STAND ALONE FIRE ALARM CONTROL PANEL AND FIRE ALARM FIELD DEVICES FOR (N) STADIUM PRESSBOX AND CONCESSION/RESTROOM PORTABLE BUILDING. TELEPHONE WILL BE AVAILABLE AS A MEANS OF COMMUNICATION.
4. FIRE ALARM SYSTEM SIGNALING LINE CIRCUIT IS CLASS B, STYLE 4; INITIATION DEVICE CIRCUIT IS CLASS B, STYLE B; NOTIFICATION CIRCUIT IS CLASS B, STYLE Y.

# APPLICABLE FIRE ALARM CODES, STANDARDS AND GUIDES:

CODES:

1. 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
3. 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
4. 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
5. 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
6. 2016 CALIFORNIA ENERGY CODE.
7. 2016 CALIFORNIA FIRE CODE.
8. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

STANDARDS AND GUIDES:

1. NFPA 72, NATIONAL FIRE ALARM CODE, 2016 EDITION WITH CALIFORNIA AMENDMENTS.

# SYMBOL LIST:

- (1 / FA4) — PLAN, DETAIL OR SECTION DESIGNATION.
- [201] — ROOM NUMBER.
- (1) — SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET.

WIRING & CONDUIT RUN SYMBOLS

- ——— CONDUIT - CONCEALED IN WALLS OR CEILING.
- —·—·— CONDUIT - EXPOSED.
- — — CONDUIT - IN OR BELOW FLOOR. 3/4"MIN.
- #10 / 6 — CONDUIT - HOME RUN TO PANEL TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES. CROSSHATCH WITH SUBSCRIPT "S" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSSHATCHES WITH "#10" INDICATES WIRE SIZE OTHER THAN #12'S.
- FLEX CONDUIT WITH CONNECTION.
- CONDUIT - STUB UP.
- CONDUIT - STUB DOWN.
- CAPPED CONDUIT.
- CONDUIT CONTINUATION.

POWER DISTRIBUTION SINGLE LINE SYMBOLS

- CIRCUIT BREAKER.

FA EQUIPMENT DEVICE

- [EOL] — END OF LINE RESISTOR

# EQUIPMENT SCHEDULE:

| | |
|---|---|
| 15cd | FIRE ALARM, HORN/STROBE 15 CANDELA<br>MODEL: GE (EDWARDS SYSTEM TECHNOLOGY) GIRF-VM (GENESIS)<br>CSFM: 7125-1657: 218 |
| 30cd | FIRE ALARM, HORN/STROBE 30 CANDELA<br>MODEL: GE (EDWARDS SYSTEM TECHNOLOGY) GIRF-VM (GENESIS)<br>CSFM: 7125-1657: 218 |
| (H)A | FIRE ALARM; ATTIC HEAT DETECTOR WITH BASE (194°)<br>MODEL: GE (EDWARDS SYSTEM TECHNOLOGY) 282B-PL<br>CSFM: 7210-1657:104 |
| (PS) | FIRE ALARM, SMOKE DETECTOR WITH BASE<br>MODEL: GE (EDWARDS SYSTEM TECHNOLOGY) SIGA-PS<br>CSFM: 7212-1657: 126 |
| M | FIRE ALARM, MONITOR MODULE<br>MODEL: GE (EDWARDS SYSTEM TECHNOLOGY) SIGA-CTIHT<br>CSFM: 7300-1657:121 |
| SIM | FIRE ALARM, SYNC MODULE<br>MODEL: GE (EDWARDS SYSTEM TECHNOLOGY) SIM<br>CSFM: 7300-1657:201 |
| FACP | (E) FIRE ALARM, FIRE ALARM CONTROL PANE W/ SA-DACT OPTION CARD<br>MODEL: GE (EDWARDS SYSTEM TECHNOLOGY) I064<br>CSFM: 7165-1657:244 |
| RPS | FIRE ALARM, FIRE ALARM REMOTE POWER SUPPLY<br>MODEL: GE MRBPS6A<br>CSFM: 7300-1657:229 |

# FIRE ALARM CABLE SCHEDULE:

A - (2) #12 FOR NOTIFICATION APPLIANCE CIRCUITS (NAC)

B - (1) #14 UNSHEILDED TWISTED PAIR FOR SIGNALING LINE CIRCUITS (SLC)

# FIRE ALARM SYSTEM OPERATIONAL MATRIX

| | ALARM | | | | | | | | | | | | | | | | TROUBLE | | | | | | SUPERVISORY | | | | | | | | MISC. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAUSE | ALARM AT FACP | | ACTIVATE A PANEL RELAY | ACTIVATE AUDIBLES | ACTIVATE VISUALS | ACTIVATE AUDIO/VISUALS | | | | | | | | | | | TROUBLE AT FACP | | | | | | SUPERVISORY AT FACP | | | | | | | | DEACTIVATE AUDIBLES | DEACTIVATE VISUALS | DEACTIVATE AUDIO/VISUALS | SYSTEM NORMAL | | | | | | | | REMARKS |
| MANUAL PULL STATIONS | • | | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SMOKE DETECTORS | • | | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEAT DETECTORS | • | | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATTIC HEAT DETECTORS | • | | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC POWER FAILURE | | | | | | | | | | | | | | | | | • | | | | | | • | | | | | | | | | | | | | | | |
| SIGNAL SILENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • | • | • | | | | | |
| SYSTEM RESET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • | • | • | • | | | | |
| FIRE ALARM TROUBLE (OPEN, SHORTS, OR GROUNDS) ON | | | | | | | | | | | | | | | | | • | • | | | | | | | | | | | | | | | | | | | | |

# DRAWING INDEX



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1580 The Alameda, Suite 200
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408/236-2312
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JOB # E19146.00


KEYMAP

SHEET TITLE
FIRE ALARM SYMBOLS, NOTES AND EQUIPMENT SCHEDULE

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
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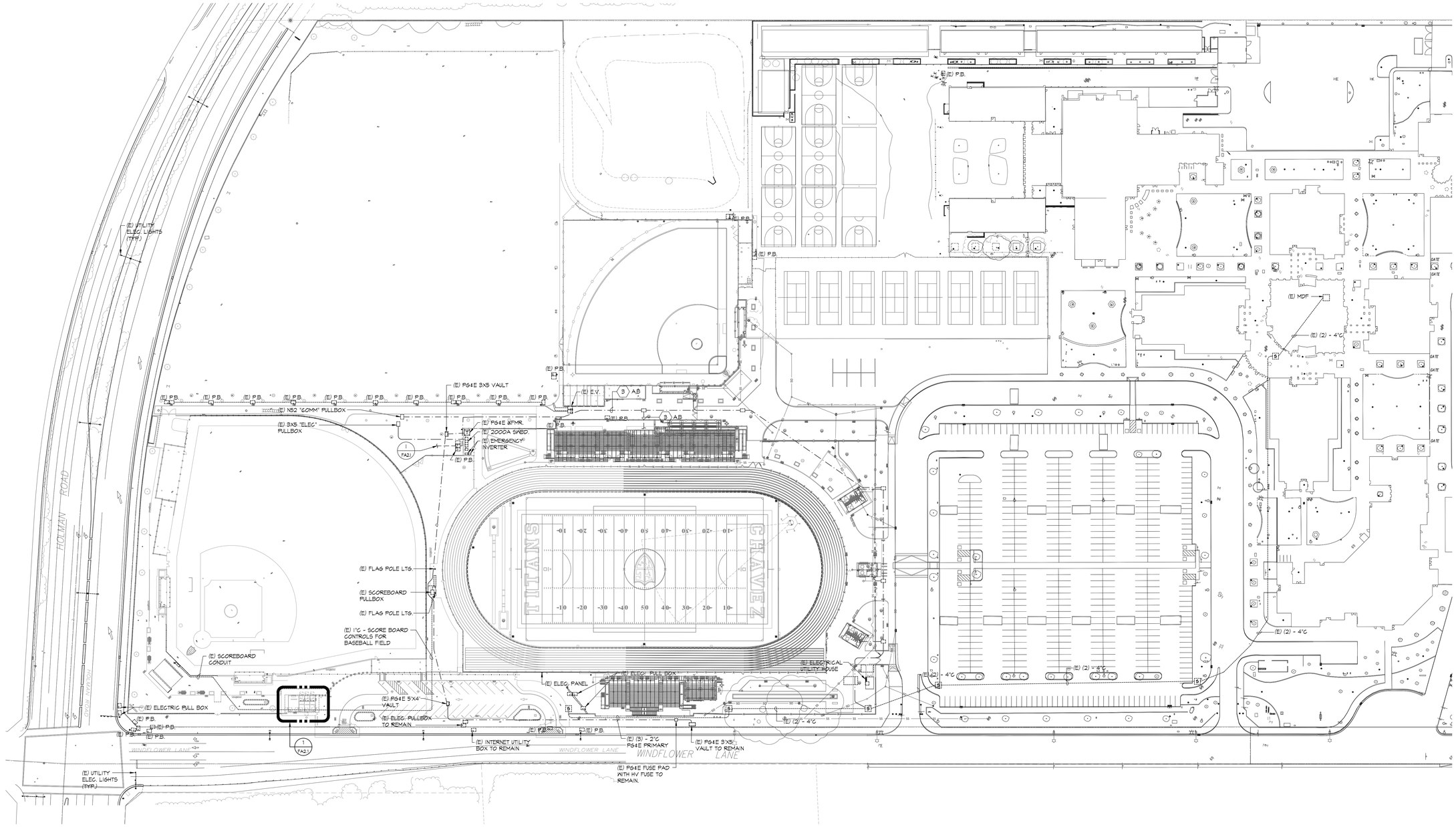
DRAWN BY: MG
CHECKED BY: SB/ SF
DATE ISSUED: 03/27/20
SCALE:
PROJ. NO.: 1910900-1211
SHEET NO.: FA0.1 OF #




# 1 FIRE ALARM SITE PLAN - NEW

FA1.1 SCALE: 1" = 60'-0"

## GENERAL NOTES:

1. ALL FIRE ALARM CABLING SHALL BE NEW.
2. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL CONDUIT REQUIREMENTS.
3. SEE FOOR PLAN AND FIRE ALARM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
4. COORDINATE NEW TRENCHWORK WITH ELECTRICAL DRAWINGS.
5. ALL INGRADE PULL BOX SHOWN ARE NEW. PROVIDE TRAFFIC RATED LIDS.

## SHEET NOTES:

1. (N) FIRE ALARM CONTROL PANEL. PULLSTATION AND SMOKE DETECTOR LOCATED IN THE SAME ROOM.
2. (N) N9 FIRE ALARM PULLBOX. LABEL LID "FIRE ALARM". CONTRACTOR TO LOCATE N9 PULL BOX NEXT TO ELECT PULL BOX THAT ARE FEEDING MODULAR BLDG. SEE E2.1 DRAWING FOR ELECT PULL BOX LOCATION.
3. UTILIZE EXISTING CONDUIT TO ROUTE FIRE ALARM WIRING.

## FA CABLE SCHEDULE:

A - (2) #12 FOR NOTIFICATION APPLIANCE CIRCUITS (NAC)

B - (1) #14 UNSHEILDED TWISTED PAIR FOR SIGNALING LINE CIRCUITS (SLC)

## CONDUIT SCHEDULE:

1. (N) (1)"G - FIRE ALARM



DRAWING NAME: L:\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\ATHLETIC FACILITY\FA1.1_FA Site Plan New.dwg
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay

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FIRE ALARM
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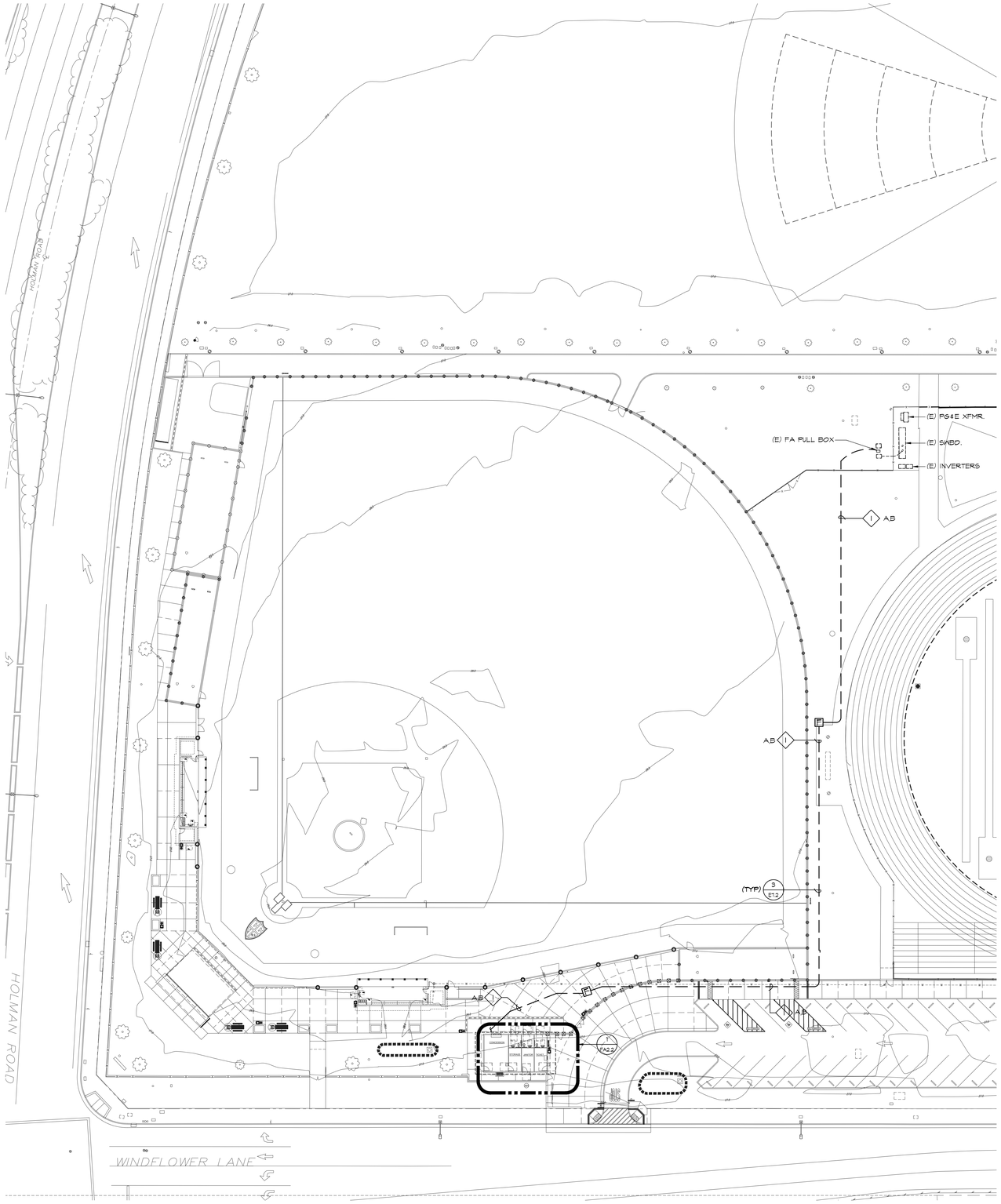
FIRE ALARM SITE PLAN - NEW




1 / FA2.1 **ENLARGED BASEBALL FIELD - ELECTRICAL NEW SITE PLAN**

SCALE: 1" = 30'-0"

NORTH

## GENERAL NOTES:

1. ALL FIRE ALARM CABLING SHALL BE NEW.
2. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL CONDUIT REQUIREMENTS.
3. SEE FOOR PLAN AND FIRE ALARM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
4. COORDINATE NEW TRENCHWORK WITH ELECTRICAL DRAWINGS.
5. ALL INGRADE PULL BOX SHOWN ARE NEW. PROVIDE TRAFFIC RATED LIDS. LABEL LID "FIRE ALARM".

## FA CABLE SCHEDULE:

A - (2) #12 FOR NOTIFICATION APPLIANCE CIRCUITS (NAC)

B - (1) #14 UNSHEILDED TWISTED PAIR FOR SIGNALING LINE CIRCUITS (SLC)

## CONDUIT SCHEDULE:

FIRE ALARM

1 (N) 1"C - FIRE ALARM

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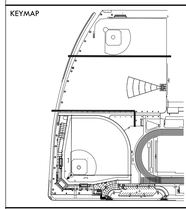

SHEET TITLE

ENLARGED BASEBALL FIELD
FIRE ALARM
NEW SITE PLAN

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY
IMPROVEMENTS

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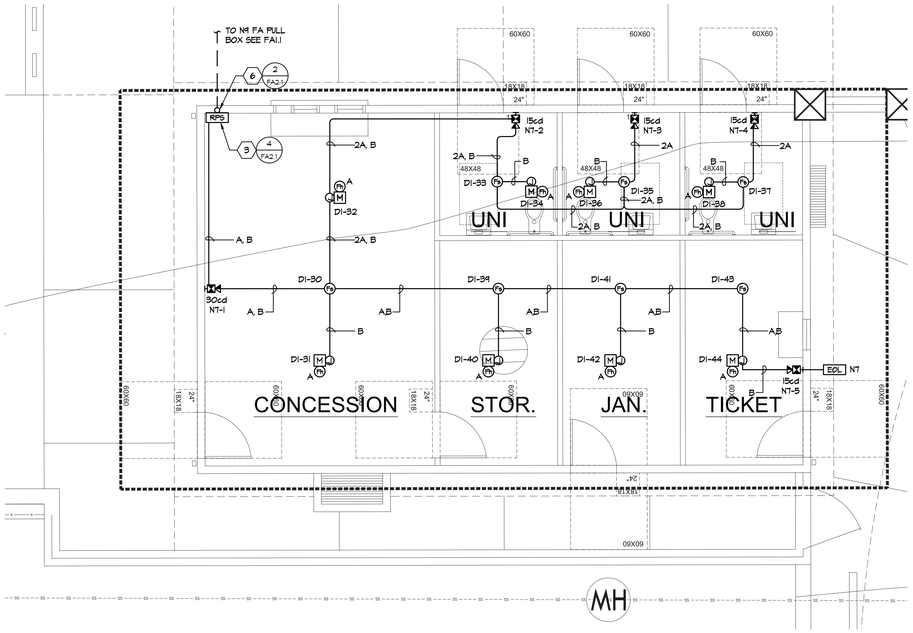
|---|---|
| MG | SB/ SF |
| DATE ISSUED: 03/27/20 | SCALE: |

PROJ. NO.
1910900-1211

SHEET NO.
FA2.1
OF #

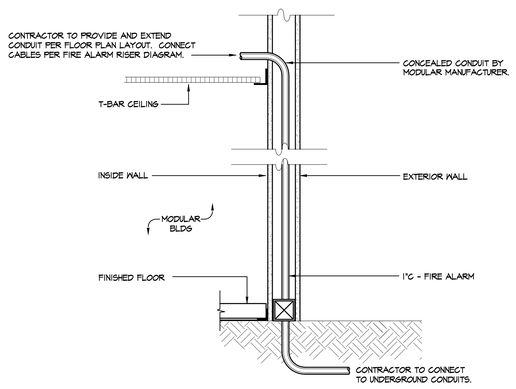


DRAWING NAME: L:\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\ATHLETIC FACILITY\FA2.1_Enlarged FA Baseball Site Plan.dwg
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay




1 FA2.2 **FIRE ALARM FLOOR PLAN - CONCESSION / STORAGE**

SCALE: 1/4" = 1'-0"




2 FA2.2 **CONDUIT/PULLCAN DETAIL**

NOT TO SCALE

## GENERAL NOTES:

1. SEE FIRE RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
2. ALL CABLES AND CONDUITS/SURFACE RACEWAYS SHALL BE NEW UNLESS OTHERWISE NOTED.
3. PROVIDE SMOKE DETECTOR GUARDS. SEE FIRE ALARM SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

## SHEET NOTES:

1. (N) FIRE ALARM CONTROL PANEL.
2. (N) NEMA 3R PULLCAN TO BE INSTALLED OVER FLUSH J-BOX (J-BOX PROVIDED BY MODULAR MANUFACTURER). CONTRACTOR TO COORDINATE AND SIZE AS REQUIRED.
3. (N) NEW REMOTE POWER SUPPLY.
4. (N) 1"C - FA; ROUTE (N) CABLES PER RISER DIAGRAM.
5. PROVIDE (N) NEMA-1 4"x4"x4" PULL CAN IN T-BAR CEILING. PROVIDE AND CONNECT CABLE AND CONDUIT PER RISER DIAGRAM.
6. CONTRACTOR TO COORDINATE WITH MODULAR MANUFACTURER TO CONCEAL CONDUIT IN WALL. PROVIDE ALL MEANS AND METHODS TO SUCCESSFULLY INSTALL CONDUIT CONCEALED IN WALLS.

## FA CABLE SCHEDULE:

A - (2) #12 FOR NOTIFICATION APPLIANCE CIRCUITS (NAC)

B - (1) #14 UNSHEILDED TWISTED PAIR FOR SIGNALING LINE CIRCUITS (SLC)



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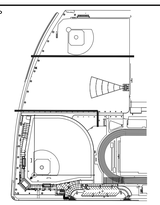

SHEET TITLE

FIRE ALARM FLOOR PLAN - CONCESSION / STORAGE

PROJECT NAME

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STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

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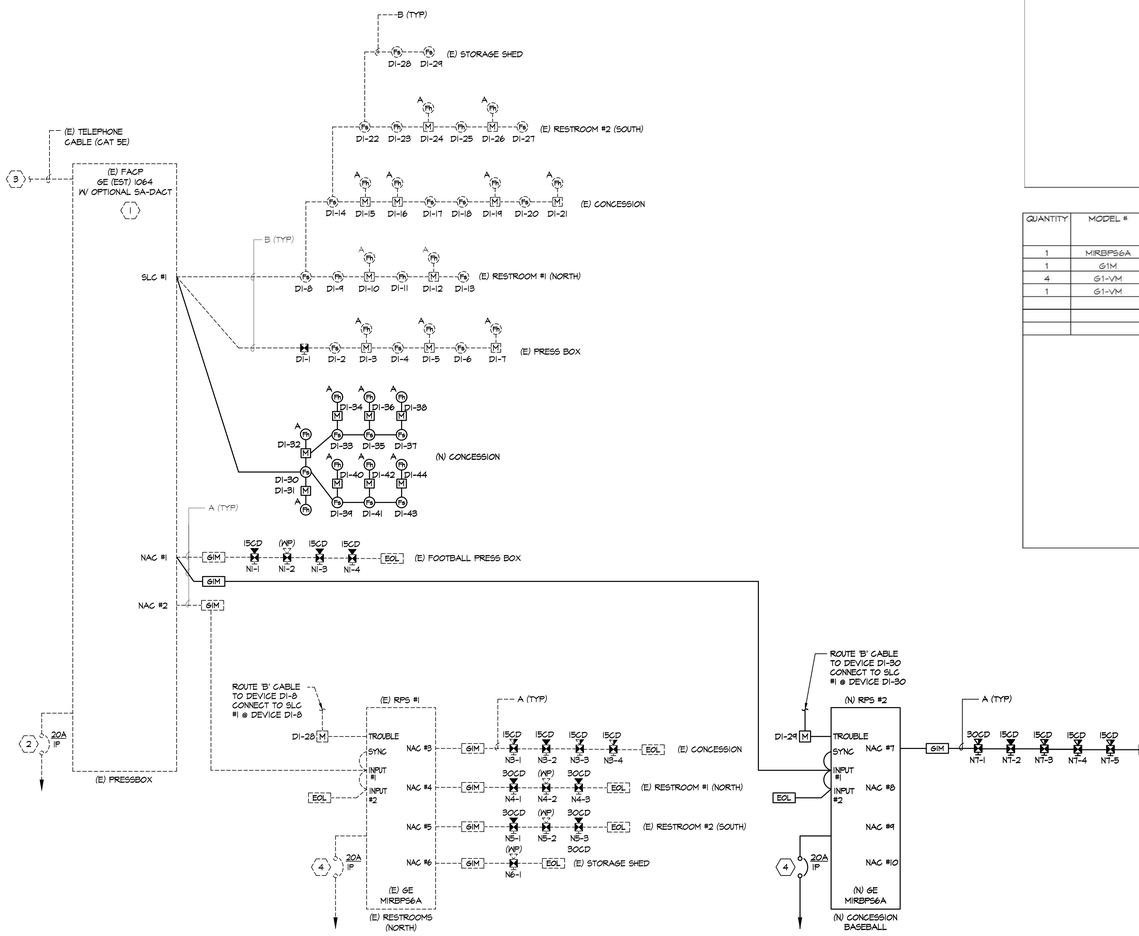
| MG | SB/ SF |
| DATE ISSUED: 03/27/20 | SCALE |

PROJ. NO. 1910900-1211

SHEET NO. FA2.2 OF #




1 / FA3.1 **FIRE ALARM RISER DIAGRAM**

N.T.S.

## BATTERY CALCULATION:

(E) FIRE ALARM CONTROL PANEL - BATTERY CALCULATION

| QUANTITY | MODEL # | DEVICE | SUPV. CURRENT PER | TOTAL SUPV. CURRENT | ALARM CURRENT PER | TOTAL ALARM CURRENT |
|---|---|---|---|---|---|---|
| (E) FIRE ALARM DEVICES INSTALLED UNDER THIS PROJECT | | | | | | |
| 1 | CPU | (N) FACP CENTRAL PROCESSING UNIT | 0.1550 | 0.1550 | 0.2040 | 0.2040 |
| 2 | G1M | SYNC MODULE | 0.0000 | 0.0000 | 0.0330 | 0.0660 |
| 1 | INT-T | (N) HORN (WEATHERPROOF) | 0.0000 | 0.0000 | 0.0550 | 0.0550 |
| 3 | 4MS-7A | (N) STROBE 15/75CD | 0.0000 | 0.0000 | 0.2040 | 0.6120 |
| 1 | MIRBPS6A | REMOTE POWER BOOSTER PANEL | 0.0000 | 0.0000 | 0.0060 | 0.0060 |
| 1 | SIGA-270 | (N) PULL STATION | 0.0003 | 0.0003 | 0.0004 | 0.0004 |
| 4 | SIGA-HRB | (N) HEAT DETECTOR/BASE | 0.0001 | 0.0004 | 0.0180 | 0.0720 |
| 11 | SIGA-MM1/280B-PL | (N) MONITOR MODULE (ATTIC HEAT DET.) | 0.0003 | 0.0028 | 0.0004 | 0.0044 |
| 13 | SIGA-PS | (N) SMOKE DETECTOR/BASE | 0.0001 | 0.0013 | 0.0180 | 0.2340 |
| 1 | SIGA-MM1 | (N) MONITOR MODULE | 0.0003 | 0.0003 | 0.0004 | 0.0004 |
| | | | | | | |
| | | | | | | |
| (N) FIRE ALARM DEVICES INSTALLED UNDER THIS PROJECT | | | | | | |
| 1 | MIRBPS6A | REMOTE POWER BOOSTER PANEL | 0.0000 | 0.0000 | 0.0060 | 0.0060 |
| 8 | SIGA-HRB | (N) HEAT DETECTOR/BASE | 0.0001 | 0.0008 | 0.0180 | 0.1440 |
| 8 | SIGA-MM1/280B-PL | (N) MONITOR MODULE (ATTIC HEAT DET.) | 0.0003 | 0.0020 | 0.0004 | 0.0032 |
| 7 | SIGA-PS | (N) SMOKE DETECTOR/BASE | 0.0001 | 0.0007 | 0.0180 | 0.1260 |
| 1 | SIGA-MM1 | (N) MONITOR MODULE | 0.0003 | 0.0003 | 0.0004 | 0.0004 |
| 4 | G1-VM | (N) HORN/STROBE 15CD | 0.0000 | 0.0000 | 0.0590 | 0.2360 |
| 1 | G1-VM | (N) HORN/STROBE 30CD | 0.0000 | 0.0000 | 0.0820 | 0.0820 |
| | | | | | | |
| | | | Max. Supv. Current | 0.16 | Max. Alarm Current | 1.85 |

Maximum Supervisory Current: 0.16
Standby Period 24 hour: 24
Total Supervisory Reserve: 3.93 (A)

Maximum Alarm Current: 1.85
Alarm Period (5 minute) 0.08
Total Alarm Reserve: 0.15 (B)

Total Reserve Current: ( A + B) 4.08
Safety Margin (20%) 1.2
Total Ampere Hours Required: 4.90

(N) Battery: 2- 12V 10 Ampere Hour

(N) RPS #2 - BATTERY CALCULATION

| QUANTITY | MODEL # | DEVICE | SUPV. CURRENT PER | TOTAL SUPV. CURRENT | ALARM CURRENT PER | TOTAL ALARM CURRENT |
|---|---|---|---|---|---|---|
| 1 | MIRBPS6A | (N) MAIN PC BOARD | 0.0700 | 0.0700 | 0.0700 | 0.0700 |
| 1 | G1M | SYNC MODULE | 0.0000 | 0.0000 | 0.0330 | 0.0330 |
| 4 | G1-VM | (N) HORN/STROBE 15CD | 0.0000 | 0.0000 | 0.0590 | 0.2360 |
| 1 | G1-VM | (N) HORN/STROBE 30CD | 0.0000 | 0.0000 | 0.0820 | 0.0820 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | Max. Supv. Current | 0.07 | Max. Alarm Current | 0.42 |

Maximum Supervisory Current: 0.07
Standby Period 24 hour: 24.00
Total Supervisory Reserve: 1.68 (A)

Maximum Alarm Current: 0.42
Alarm Period (5 minute) 0.08
Total Alarm Reserve: 0.03 (B)

Total Reserve Current: ( A + B) 1.71
Safety Margin (20%) 1.20
Total Ampere Hours Required: 2.06

(N) Battery: 2- 12V 7.2 Ampere Hour

## VOLTAGE DROP:

NOTIFICATION CIRCUIT # 7

| DEVICE # | DEVICE TYPE | (FT.) | AMPS OF DEVICE | TOTAL AMPS @ DEVICE | VOLTAGE DROP @ DEVICE |
|---|---|---|---|---|---|
| NT-1 | HORN/STROBE 30 CD | 15 | 0.096 | 0.420 | 0.021 |
| NT-2 | HORN/STROBE 15 CD | 35 | 0.081 | 0.324 | 0.038 |
| NT-3 | HORN/STROBE 15 CD | 25 | 0.081 | 0.243 | 0.020 |
| NT-4 | HORN/STROBE 15 CD | 25 | 0.081 | 0.162 | 0.013 |
| NT-5 | HORN/STROBE 15 CD | 90 | 0.081 | 0.081 | 0.024 |
| | | | | | |
| | | TOTAL CIRCUIT AMPS: | | 0.420 | |
| | | TOTAL VOLTAGE DROP: | | 0.116 | |
| | | CIRCUIT VOLTAGE: | | 20.4 | |
| | | % VOLTAGE DROP | | 0.57% | |
| | | VOLTAGE @ END OF LINE | | 20.28 | |
| | | MIN. OPERATIONAL VOLTAGE OF DEVICES | | 17 | |

WIRE GAUGE 12

** FORMULA**
(1 x FEET x 21.6)
CIRCULAR MILS

| WIRE SIZE | RES PER Mft. | CIRCULAR MILS |
|---|---|---|
| 10 | 1.24 | 10380 |
| 12 | 1.59 | 6530 |
| 14 | 2.52 | 4110 |
| 16 | 4.02 | 2580 |
| 18 | 6.39 | 1620 |
| 20 | 10.1 | 1020 |
| 22 | 16.2 | 640 |

## GENERAL NOTES:

1. SEE FIRE ALARM FLOOR PLANS FOR ADDITIONAL INFORMATION.
2. ALL FIRE ALARM EQUIPMENT SHALL BE NEW.
3. ALL CONDUITS/SURFACE RACEWAYS SHALL BE NEW UNLESS OTHERWISE NOTED.
4. THERE SHALL BE NO SPLICING OF FIRE ALARM CONDUCTORS BETWEEN TERMINATIONS OF FIRE ALARM DEVICES. FIRE ALARM CONDUCTORS SHALL BE CONTINUOUS FROM DEVICE TO DEVICE.

## FA CABLE SCHEDULE:

A - (2) #12 FOR NOTIFICATION APPLIANCE CIRCUITS (NAC)

B - (1) #14 UNSHIELDED TWISTED PAIR FOR SIGNALING LINE CIRCUITS (SLC)

## SHEET NOTES:

1. PROVIDE AND INSTALL NEW GE (EDWARD'S SYSTEMS TECHNOLOGY) 1064 FIRE ALARM CONTROL PANEL. PROVIDE OPTIONAL SA-DACT DIALER AND CONNECT TO PHONE LINES AS REQUIRED.
2. PROVIDE AND INSTALL DEDICATED POWER CONNECTION. ROUTE HOMERUN CONDUIT WITH (3) #12'S TO (N) MODULAR PRESSBOX BUILDING'S ELECTRICAL PANEL. CONNECT TO (N) 20A-1P DEDICATED CIRCUIT BREAKER. CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE FOR A COMPLETE INSTALLATION. UPDATE PANEL SCHEDULE ACCORDINGLY. PROVIDE CIRCUIT BREAKER LOCKOUT TO PREVENT UNAUTHORIZED TAMPERING.
3. TWO LINES ARE REQUIRED PER NFPA AND ALL ALARM SIGNALS ARE TO BE TRANSMITTED TO AN APPROVED UL LISTED SUPERVISING STATION. COORDINATE WITH DISTRICT DEDICATED LINES. CONTRACTOR TO LOCATE TELEPHONE BOARD, PROVIDE CABLE AND CONNECT AS REQUIRED. NOTE: TELEPHONE SYSTEM IS VOIP. CONTRACTOR TO PROVIDE NECESSARY ANALOG CABLE FROM (E) DEMARK TO (E) MDF TO COMPLETE A DEDICATED TELEPHONE LINE. SEE DATA RISER DIAGRAM FOR FIBER FROM (E) MDF TO (N) IDF IN PRESS BOX. PROVIDE (2) 12 PAIR OUTDOOR NOTED TELEPHONE CABLE. ONE FOR FA SYSTEM THE OTHER IS SPARE. ROUTE TELEPHONE IN (N) 4"G NOTED AS DATA. CONNECT TELEPHONE LINES PER NFPA AND COIL SPARE CABLE IN (N) IDF CABINET. PROVIDE 20' OF COILED CABLE.
4. NEW REMOTE POWER SUPPLY, RPS #1. PROVIDE AND INSTALL NEW GE 'MIRBPS6A'. PROVIDE AND INSTALL DEDICATED POWER CONNECTION. ROUTE HOMERUN CONDUIT WITH (3) #12'S TO (N) CONCESSION RESTROOMS BUILDING'S ELECTRICAL PANEL. CONNECT TO (N) 20A-1P DEDICATED CIRCUIT BREAKER. CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE FOR A COMPLETE INSTALLATION. UPDATE PANEL SCHEDULE ACCORDINGLY. PROVIDE CIRCUIT BREAKER LOCKOUT TO PREVENT UNAUTHORIZED TAMPERING.

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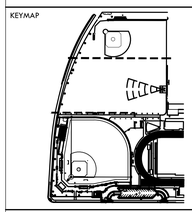

SHEET TITLE
FIRE ALARM RISER DIAGRAM

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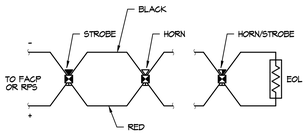
SHEET NO.: FA3.1 OF #

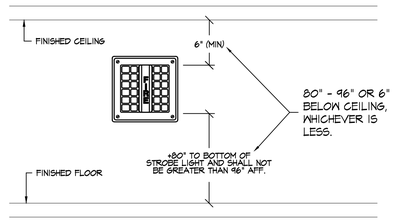
FIRE ALARM RISER DIAGRAM



DRAWING NAME: L:\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\ATHLETIC FACILITY\FA3.1_FA Riser Diagram.dwg
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay



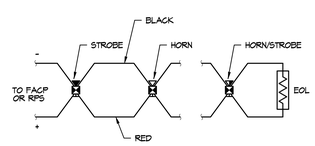

TYPICAL NOTIFICATION DEVICE WIRING DIAGRAM



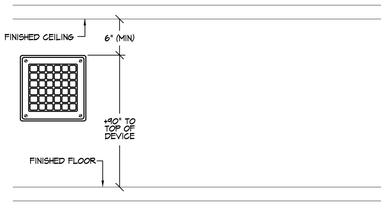

NOTE: SURFACE MOUNTED DEVICES SHALL BE PROVIDED WITH THE MANUFACTURERS RECOMMENDED SURFACE MOUNTED BACKBOX.

## 1 AUDIBLE/VISUAL DEVICE INSTALLATION DETAIL

FA4.1 NOT TO SCALE



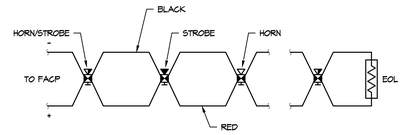

TYPICAL NOTIFICATION DEVICE WIRING DIAGRAM



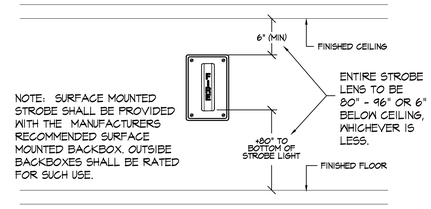

NOTE: SURFACE MOUNTED HORN SHALL BE PROVIDED WITH THE MANUFACTURERS RECOMMENDED SURFACE MOUNTED BACKBOX. OUTSIBE BACKBOXES SHALL BE RATED FOR SUCH USE.

## 2 AUDIBLE DEVICE INSTALLATION DETAIL

FA4.1 NOT TO SCALE



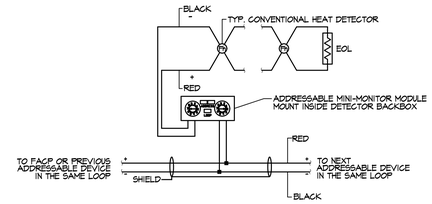

TYPICAL STROBE WIRING DIAGRAM



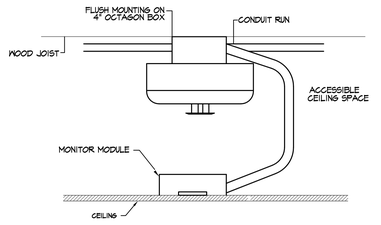

NOTE: SURFACE MOUNTED STROBE SHALL BE PROVIDED WITH THE MANUFACTURERS RECOMMENDED SURFACE MOUNTED BACKBOX. OUTSIBE BACKBOXES SHALL BE RATED FOR SUCH USE.

## 3 VISUAL DEVICE INSTALLATION DETAIL

FA4.1 NOT TO SCALE

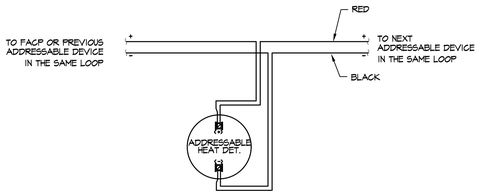



TYPICAL CONVENTIONAL HEAT DETECTOR WITH ADDRESSABLE MONITOR MODULE WIRING DIAGRAM

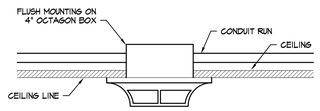



## 4 HEAT DETECTOR MOUNTING DETAIL (ABOVE CEILING)

FA4.1 NOT TO SCALE




TYPICAL ADDRESSABLE HEAT DETECTOR WIRING DIAGRAM




## 5 HEAT DETECTOR MOUNTING DETAIL

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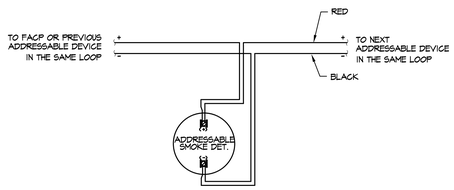
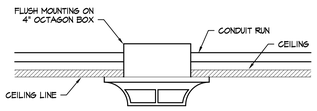
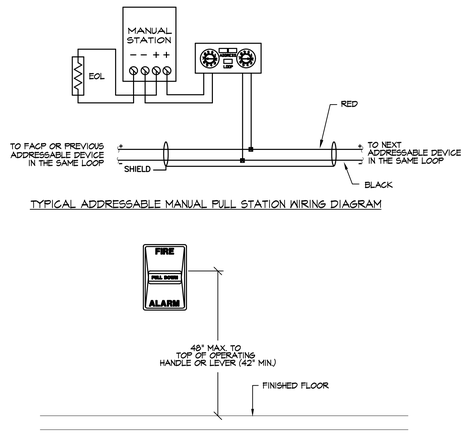



TYPICAL ADDRESSABLE SMOKE DETECTOR WIRING DIAGRAM




## 6 SMOKE DETECTOR MOUNTING DETAIL

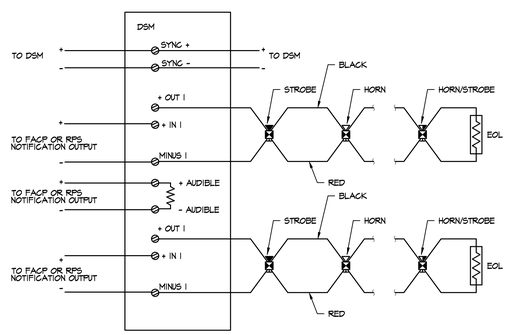
FA4.1 NOT TO SCALE




TYPICAL ADDRESSABLE MANUAL PULL STATION WIRING DIAGRAM

## 7 MANUAL PULL STATION STATION INSTALLATION DETAIL

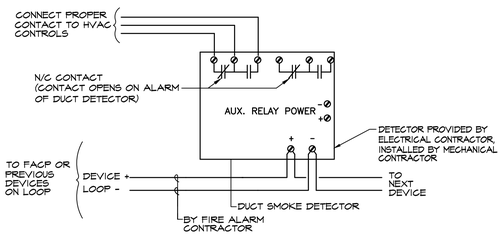
FA4.1 NOT TO SCALE




REFER TO MANUFACTURERS INSTALLATION MANUAL FOR ADDITIONAL REQUIREMENTS AND UPDATES

## 8 SYNC MODULE TYPICAL CONNECTION

FA4.1 NOT TO SCALE




## 9 DUCT SMOKE DETECTOR TYPICAL CONNECTION

FA4.1 NOT TO SCALE



DRAWING NAME: L:\projects\Year 2019\E19146 Chavez HS Additional Athletic Improvement\ATHLETIC FACILITY\FA4.1_FA Details.dwg
PLOT DATE: 03-27-20 PLOTTED BY: sbuhay

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
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REGISTERED PROFESSIONAL ENGINEER MARK S. FERRARA E16890 Exp. 06/30/21 ELECTRICAL STATE OF CALIFORNIA

CONSULTANT

American Consulting Engineers Electrical, Inc.
1590 The Alameda, Suite 200
San Jose, CA 95126
JOB # E19146.00
408/236-2312
Fax: 408/236-2318

KEYMAP



SHEET TITLE

FIRE ALARM DETAILS

PROJECT NAME

CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS

2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
| | |

| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
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| 5 | | |
| 6 | | |

DRAWN BY: MG
CHECKED BY: SB/ SF
DATE ISSUED: 03/27/20
SCALE:
PROJ. NO.: 1910900-1211
SHEET NO.: FA4.1 OF #

FIRE ALARM DETAILS

# GENERAL NOTES:

## APPLICABLE BUILDING CODE

All construction and workmanship shall conform to the 2016 California Building Code, California Code of Regulations – Title 24, Parts 1 & 2.

This pole and foundation standard has been designed for lateral loads on the completed structure as follows:

Wind Design Data:
- Vult = 110 MPH (Exposure C); Vasd = 85 MPH (Exposure C)
- Risk Category = II
- See Pole Foundation Schedule for maximum pole wind forces.

Seismic Design Data:
- Ie = 1.0
- Risk Category = II (Self Supporting Poles)
- Ss = 0.831
- S1 = 0.317
- Site Class = D
- Sms = 0.647
- Sm1 = 0.374
- Seismic Design Category = D
- Basic Seismic-Force-Resisting System = Non-Building Structure, not similar to buildings
- Cs = 0.390 for 50C, 0.260 for 50D, 0.123 for 70C, 0.153 for 70D, 0.134 for 80C (STRENGTH LEVEL)
- R = 1.5
- Ω = 1.5
- Analysis Procedure = Equivalent Lateral Force Procedure
- See Pole Foundation Schedule for maximum pole seismic forces.

## GENERAL CONSTRUCTION

These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Registered Design Professional (RDP) in Responsible Charge.

Contractor must check all dimensions, clearances and job conditions before starting work. The RDP in Responsible Charge shall be notified immediately of any discrepancies or possible deficiencies.

The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc., is the sole responsibility of the Contractor. Observation visits to the job site by the RDP in Responsible Charge do not include inspection of construction procedures. The Contractor is solely responsible for all construction methods and for safety conditions at the worksite. These visits by RDP in Responsible Charge shall not be construed as continuous and detailed inspections.

Design, material, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the School District, the RDP in Responsible Charge, and DSA.

All changes to the approved plans after a contract for construction has been awarded, affecting structural, access or life-safety portions of the project, shall be made by means of construction change documents (CCD) approved by DSA, as required by Section 4-338, Part 1, Title 24, CCR. All CCD shall be prepared and signed by the RDP in general Responsible Charge.

Substitutions shall be considered as a CCD and shall be approved by DSA prior to fabrication or use.

A Class 1 or Class 2 Project Inspector employed by the School District (Owner) and approved by DSA shall provide continuous inspection of the work, the duties of the Inspector are defined in Section 4-342, Part 1, Title 24, CCR.

All Tests And Inspections shall be performed by an Independent lab employed by the School District and approved by DSA.

Reference pole location on the Architectural, Structural, and/or Electrical drawings for actual pole placement and site location. Pole shall be located 5'-0" min. from adjacent structures below 50'-0" A.G.L., unless noted otherwise.

## LIGHT POLE FOUNDATIONS

Reference geotechnical report prepared by Wallace Kuhl & Associates, Dated September 11, 2019; Project no. 12435.01P.

Allowable Vertical soil Capacity – 3,000 PSF (End Bearing).

Allowable Lateral Bearing capacity: 250 PSF/FT. Upper 12 inches of soil should be neglected.

A representative of Wallace Kuhl & Associates should be available at the time of the foundation installation to verify the soil design parameters and to provide assistance if any problems arise in foundation installation.

The Contractor must familiarize himself with the complete geotechnical report, and borings and contact the above firm to understand the soil conditions and the possibility of ground water pumping and excavation stabilization or bracing during the foundation installation and placement of concrete.

Soil formations that will require special design considerations or excavation procedures may exist. Pole foundations may need to be reanalyzed according to the soil conditions that exist.

If any discrepancies or inconsistencies arise, notify the RDP in Responsible Charge of such discrepancies.

All piers and concrete must bear on and against firm undisturbed soil as determined by the Geotechnical Engineer.

Place plywood collar around perimeter at the top of foundation excavation to prevent soil from entering.

All excavations must be free of loose soil, and debris prior to foundation installation and placement of concrete. Casing or drilling slurry may be required if caving occurs. Review and approval of the Geotechnical Engineer and DSA is required.

All excavations must be free of water or concrete shall be placed by the Tremie Method in accordance with ACI standard 336. Concrete placed by the Tremie Method shall have a minimum ultimate strength of 1,000 PSI greater than required under "Concrete Cast-in-Place" and a maximum slump of 8".

## CONCRETE (CAST-IN-PLACE)

Concrete backfill without steel reinforcement shall attain a minimum ultimate compressive strength at 28 day test of 3,000 psi. Batch plant inspection not required.

All concrete shall attain a minimum strength of 2,500 psi prior to steel pole erection.

Use Type II/V Portland cement or as directed by the Geotechnical Engineer.

Portland Cement ASTM C-150.

Aggregate ASTM C-33. 1" maximum aggregate size. 3/8" max agg. size acceptable where pump mixes are used at unreinforced concrete backfill.

Mix in conformance with ASTM C-94, ACI 318 SECTIONS 19.2 and 26.4.

Place concrete immediately after completion of excavation and inspection by the Geotechnical Engineer and the DSA Inspector. Under no circumstances shall piers be allowed to remain open for more than 12 hours without the approval of the Geotechnical Engineer. Excavations shall be covered and protected until filled with concrete.

Concrete shall be placed in one continuous operation (no construction joint) with special equipment to assure a maximum freefall of 5 ft and to prevent concrete from striking the sides of the excavation. Freefall of concrete is unacceptable through water or drilling slurry.

Vibrate concrete full depth, except for concrete with slump greater than 6", then vibrate only upper 10'-0". Concrete placed under water shall have a slump of 6"-8".

## STEEL POLE

Steel pole sections conform to the California Code of Regulations T.24, Part 2, Chapter 22A.

All steel conforms to referenced ASTM specifications. (See Pole Data Table for each pole type).

All weldment conforms with AWS D1.1-10 specification for GMAW fillet utilizing E70S-X filler metal or SAW fillet utilizing F7XX-EXXX or F8XX-EXXX filler metal.
GMAW procedure conforms to AWS A5.18.
SAW procedure conforms to AWS A5.23.

Longitudinal seam welds for pole sections shall have 60% minimum penetration; Except longitudinal seam welds on the female section of telescopic field splices shall be full penetration groove welds for a length equal to the minimum splice length plus 6 inches. See drawing number MD1 for seam weld details.

Pole sections hot dipped galvanized to ASTM A123 latest standards.

All miscellaneous structural steel items conform to AISC 360-10.

Steel pole sections shall be assembled in the field by attaching two 1.5 ton "come alongs" to jacking ears, using full effort on each simultaneously, to ensure minimum overlaps as indicated on the "MS" sheet(s) and detail G/MD1.

## PRECAST BASE

The precast concrete base conforms to California Code of Regulations, T.24, part 2, Chapter 19A and to Building Code Requirements for Reinforced Concrete, ACI 318-14.

See detail "A" on "MS" sheet(s) for material strengths and specifications.

## TESTING AND INSPECTION

Testing and inspection in accordance with Title 24, Part 1 & Part 2.

EXCAVATIONS & FOUNDATIONS:
Inspection of cast-in-place deep foundations – 1705A.8 & Table 1705A.8

CONCRETE MATERIALS: 1903A.1
Portland cement – 1910A.1
Concrete aggregates – 1903A.5
Prestressing steel and anchorages – 1910A.3

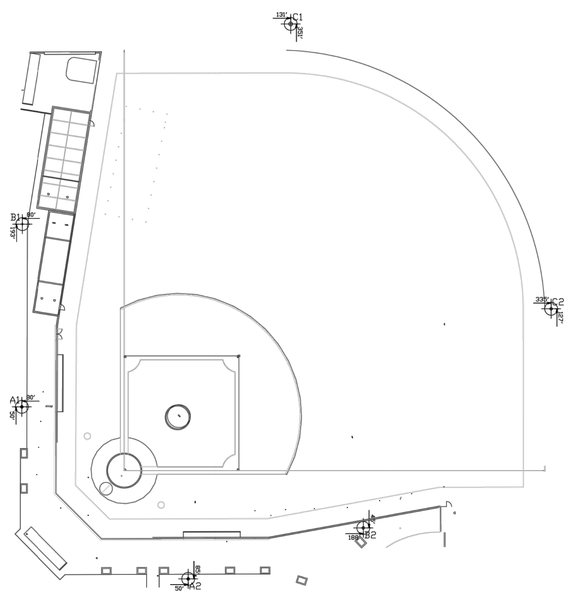
CONCRETE QUALITY:
Proportions of concrete – Reference ACI 318 Section 26.4.3.1 Through 26.4.4.1.
Strength tests of concrete – 1905A.1.16 and ACI 318 Section 26.12 & 26.5.3.2.

CONCRETE INSPECTION: 1705A.3 & Table 1705A.3
Job site – Reference ACI 318 Section 26.5.1,26.5.2.1(a) & (b),26.6.1.2(d), 26.11.1.1(a).
Batch Plant Inspection Not Required – 1705A.3.3.2 & 1705A.3.3.1
Prestressed concrete – 1704A.2.5, 1705A.3.4

STEEL MATERIALS:
Structural steel – 2203A.1 & 2205A.1
Cold formed steel – 2210A.1
Identification – 2203A.1
High strength bolt identification – table 1705A.2.1 & DSA IR 17-9

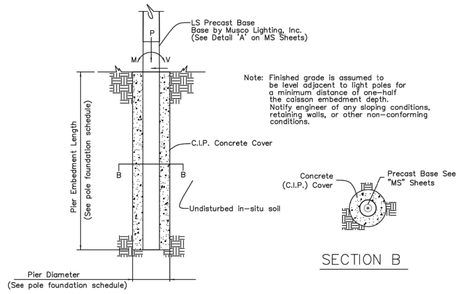
STEEL QUALITY:
Tests of structural steel & cold formed steel – 2203A.1
Tests of high strength bolts, nuts, & washers – 2213A.1 & DSA IR 17-8
Non-destructive weld tests – 1705A.2.5 & DSA IR-17-2

STRUCTURAL STEEL INSPECTIONS: Table 1705A.2.1
Shop fabrication inspection – 1704A2.5
Welding – 1705A.2.5, DSA IR 17-3 and AWS D1.1.
High strength bolt installation – Table 1705A.2.1 & DSA IR 17-9
(Including Skidmore-Wilhelm bolt tension pre-installation verification testing)
(NOTE: ALL WELDING SHALL BE CONTINUOUSLY INSPECTED BY AN AWS CWI CERTIFIED INSPECTOR APPROVED BY DSA)




POLE ORIENTATION PLAN
N.T.S.

NOTE: THIS PLAN IS A PICTORAL REPRESENTATIION OF THE SITE LAYOUT.
REFERENCE APPROPRIATE ARCHITECTURAL SITE PLAN FOR ALL NECESSARY INFORMATION.




SECTION B

A FOUNDATION DETAIL
N.T.S.

## POLE FOUNDATION SCHEDULE

| POLE TYPE–# OF FIXTURES (MAX) (LSS=LIGHT STRUCTURE) | MARK (SEE POLE ORIENTATION PLAN) | WIND OR SEISMIC (SEISMIC FORCE INCLUDES OVERSTRENGTH FACTOR=1.5) | ASD LEVEL FORCES (MAX) | | | C.I.P. DEEP FOUNDATION | | PRECAST BASE |
|---|---|---|---|---|---|---|---|---|
| | | | MOMENT (M) FT–LBS* | SHEAR (V) LBS | VERTICAL (P) LBS** | DIAMETER INCHES | EMBEDMENT FEET | EMBEDMENT LENGTH |
| LSS70C–4 | A1, A2 | SEISMIC | 22,100 | 468 | 3,634 | 30" | 14'–6" | 14'–6" |
| | | WIND | 78,200 | 1,709 | 2,243 | | | |
| LSS70D–6 | C1, C2 | SEISMIC | 37,800 | 797 | 4,979 | 36" | 16'–0" | 16'–0" |
| | | WIND | 93,600 | 2,047 | 3,217 | | | |
| LSS80C–7 | B1, B2 | SEISMIC | 48,700 | 940 | 6,699 | 36" | 18'–0" | 18'–0" |
| | | WIND | 140,900 | 2,704 | 4,119 | | | |

*Moment (M) computed below grade at Shear (V) = 0.
**Vertical (P) load includes steel pole, light fixtures, and attachments. Vertical (P) load for wind is the dressed pole weight for erection purposes. Vertical (P) load for seismic also includes weight of precast base above groundline. Reference Detail "A" on MS Sheet(s) for precast base weight.



DSA-TITLE1_E

These plans are for construction approval. An application number and approval of these drawings by the Division of The State Architect of California must be secured to build from these plans.

## INDEX OF SHEETS



Cesar Chavez HS Baseball
FIELD LIGHTING
Stockton, CA

REGISTERED STRUCTURAL ENGINEER ★ STATE OF CALIFORNIA ★ No. 4206 Exp. 5-30-21 ★ JOSEPH M. KNA

CONSULTANT
KNA STRUCTURAL ENGINEERS
991 Reed Ave, Suite 200-Reed, Sonoma, CA. 95476
Tel: (707) 996-7380 Fax: (707) 996-7388
www.KNAstructural.com
KNA JOB NO.: 361.566

musco Lighting

CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

DRAWING TITLE: NOTES, FOUNDATION DETAIL
SCALE: SEE PLAN
REVISIONS
REFERENCE

PROJECT NO.: 201787
DATE: 03/20/2020
DRAWN BY: K.Butterbaugh
DRAWING NO.: MT1
1 OF 7

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7260
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STAMP

CONSULTANT

KEYMAP

SHEET TITLE
NOTES,
FOUNDATION DETAIL

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY
IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
| | |

| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
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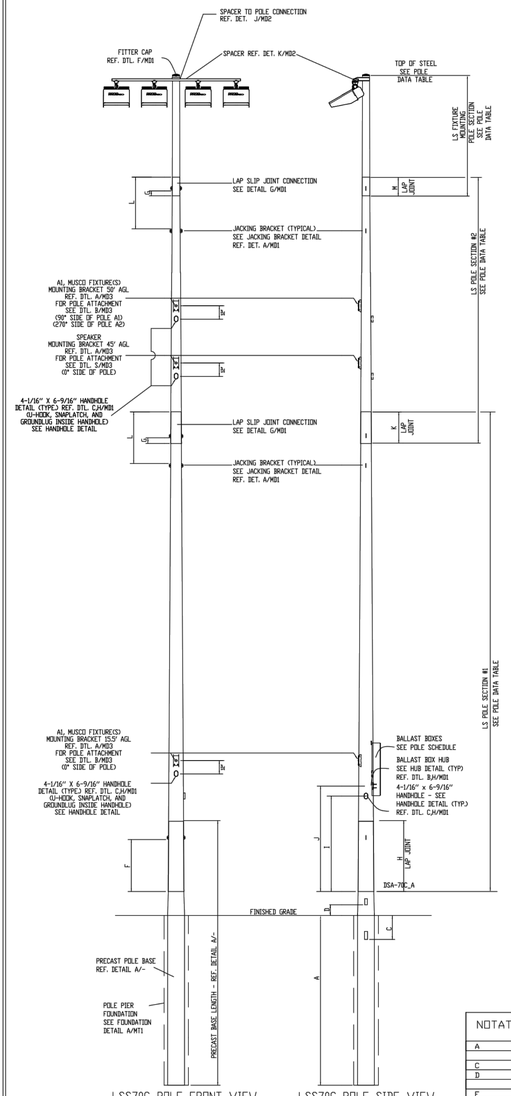
DRAWN BY: -
CHECKED BY: CS
DATE ISSUED: 03/27/20
SCALE: AS NOTED
PROJ. NO.: 1910900-1211
SHEET NO.: MT1 # OF #

NOTES, FOUNDATION DETAIL

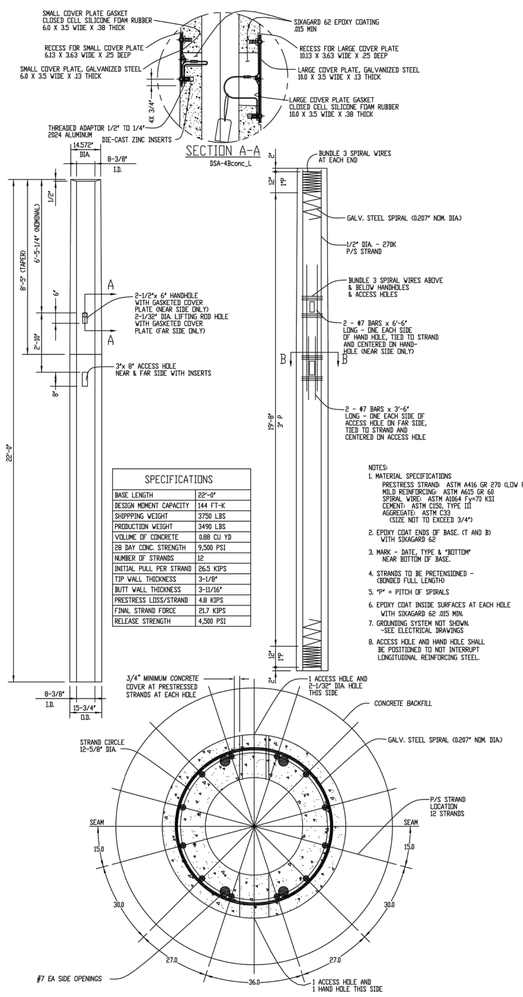


DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_Musco Lighting- Athletics.dwg
PLOT DATE: 03-26-20 PLOTTED BY: station42




LSS70C POLE FRONT VIEW
N.T.S.

LSS70C POLE SIDE VIEW
N.T.S. DSA-70CBASE_A

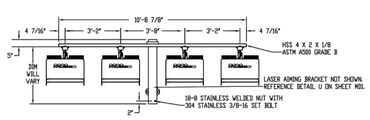



PLAN SECTION B-B

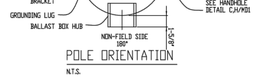
NOTES:
1. MATERIAL SPECIFICATIONS
PRESTRESS STRAND: ASTM A416 GR 270 (LOW RELAXATION)
MILD REINFORCING: ASTM A615 GR 60
SPIRAL WIRE: ASTM A1064 Fy=70 KSI
CEMENT: ASTM C150, TYPE II
AGGREGATE: ASTM C33
(SIZE NOT TO EXCEED 3/4")
2. EPOXY COAT ENDS OF BASE. (T AND B)
WITH SIKAGARD 62
3. MARK - DATE, TYPE & "BOTTOM"
NEAR BOTTOM OF BASE.
4. STRANDS TO BE PRETENSIONED -
GROUNDED FULL LENGTH
5. "P" = PITCH OF SPIRALS
6. EPOXY COAT INSIDE SURFACES AT EACH HOLE
WITH SIKAGARD 62 .015 MIN.
7. GROUNDING SYSTEM NOT SHOWN.
-SEE ELECTRICAL DRAWINGS
8. ACCESS HOLE AND HAND HOLE SHALL
BE POSITIONED TO NOT INTERRUPT
LONGITUDINAL REINFORCING STEEL.

| SPECIFICATIONS | |
|---|---|
| BASE LENGTH | 22'-0" |
| DESIGN MOMENT CAPACITY | 144 FT-K |
| SHIPPING WEIGHT | 3750 LBS |
| PRODUCTION WEIGHT | 3490 LBS |
| VOLUME OF CONCRETE | 0.88 CU YD |
| 28 DAY CONC. STRENGTH | 9,500 PSI |
| NUMBER OF STRANDS | 12 |
| INITIAL PULL PER STRAND | 26.5 KIPS |
| TIP WALL THICKNESS | 3"-1/8" |
| BUTT WALL THICKNESS | 3"-11/16" |
| PRESTRESS LOSS/STRAND | 4.8 KIPS |
| FINAL STRAND FORCE | 21.7 KIPS |
| RELEASE STRENGTH | 4,500 PSI |

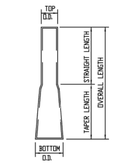
A TYPE 4B PRECAST BASE DETAIL
N.T.S. DSA-48conc_L



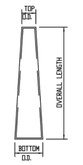

B 4 FIXTURE CONFIGURATION
N.T.S. DSA-4C-1500_A




POLE ORIENTATION
N.T.S.




FIXTURE MOUNTING
POLE SECTION




TOP/MIDDLE/BOTTOM
POLE SECTION

| NOTATION | DIMENSION LSS70C |
|---|---|
| A | 14'-6" |
| | |
| C | 2'-0" NOM. |
| D | 1'-0" NOM. |
| | |
| F | 4'-4" NOM. |
| G | 1'-6" |
| H | 5'-10 1/4" NOM. 5'-3 3/4" MIN. |
| | |
| I | 7'-7 1/2" NOM. |
| J | 8'-9 1/2" NOM. |
| K | 3'-5 5/8" NOM. 2'-1 1/4" MIN. |
| L | 4'-7" NOM. |
| M | 2'-0" NOM. 1'-5 1/2" MIN. |

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 928 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 20 LBS PER FIXTURE SERVICED

| POLE SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| SITE LOCATION | POLE MARK | REFERENCE LOCATION | POLE TYPE | FIXTURE CONFIGURATION | TOTAL EPA[1] | BALLAST BOX REQUIREMENTS |
| SEE SITE PLAN (BY OTHERS) | A1,A2 | SEE POLE ORIENTATION PLAN | LSS70C | 4 - SEE DETAIL B/MS1 | 14.34 | SEE DETAIL R1_D/M01 |
| | | | | | | |
| | | | | | | |

DSA-POLESCHE_C

| POLE DATA TABLE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| POLE TYPE | PIECE MARK | MAX NUMBER OF X-Arms | POLE SECTION | TOP O.D. (INCHES) | BTM. O.D. (INCHES) | OVERALL LENGTH | STRAIGHT LENGTH | TAPER LENGTH | THICKNESS (INCHES) | TOP OF STEEL NOMINAL | ASTM REFERENCE |
| LSS70C | LS-2013 | 1 | FIXTURE MOUNTING | 7.000" | 7.548" | 5'-3" | 3'-3" | 2'-0" | .125 | 70'-4" | A513 (Fy=38ksi) |
| | MP-4TTDSA-11 | | #2 | 6.980" | 10.940" | 28'-3 3/8" | ----- | 28'-3 3/8" | .179 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-5BT-D | | #1 | 10.096" | 15.750" | 40'-4 5/8" | ----- | 40'-4 5/8" | .179 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-4BDSA | | PRECAST BASE | FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/- | | | | | | |

DSA-70CBT_J

DSA-70_A



DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_Musco Lighting- Athletics.dwg
PLOT DATE: 03-26-20 PLOTTED BY: station40

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DATE: 04/10/2020

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SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
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tel: 916.415.6554
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CONSULTANT

KEYMAP

Cesar Chavez HS Baseball
FIELD LIGHTING
Stockton, CA

REGISTERED PROFESSIONAL ENGINEER ★ KYNAN ★ STATE OF CALIFORNIA
No. 4506
Exp. 6-30-21

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www.knase.com
KNA JOB NO.: 363.566

MUSCO Lighting
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

DRAWING TITLE: 70C POLE DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCE

PROJECT NO.
201787

DATE: 03/20/2020

DRAWN BY:
K.Butterbaugh

DRAWING NO.
2 OF 7
MS1

SHEET TITLE
70C POLE DETAIL

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY
IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
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| NO. | REVISIONS | DATE |
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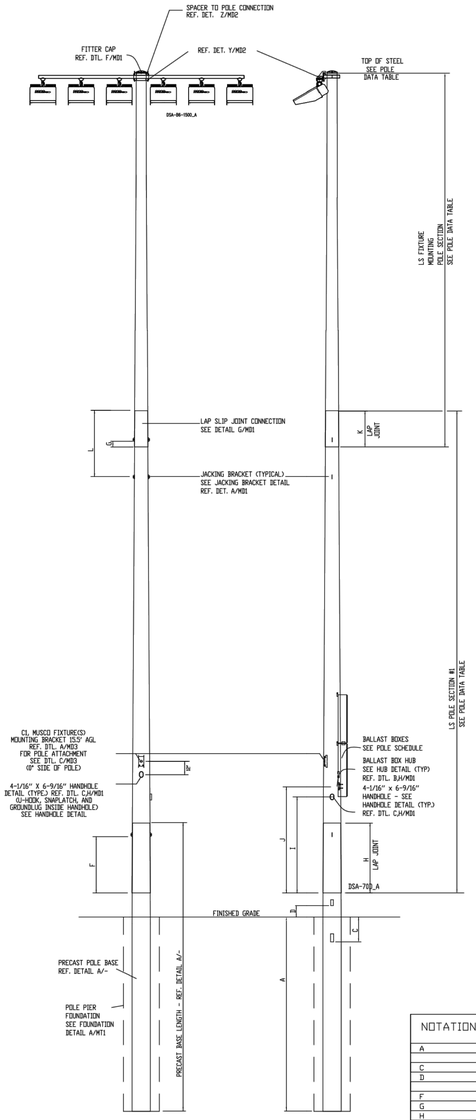
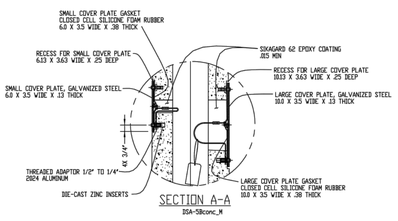
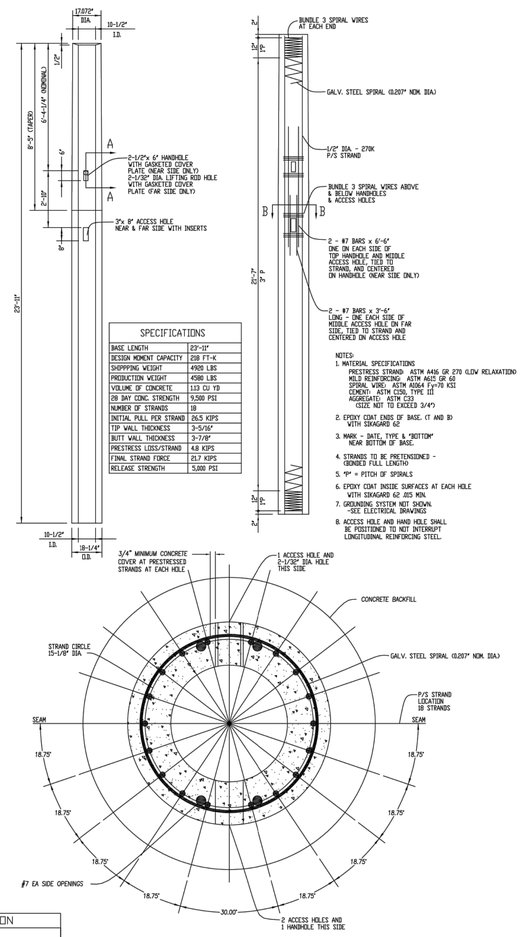
DRAWN BY: -
CHECKED BY: CS
DATE ISSUED: 03/27/20
SCALE: AS NOTED
PROJ. NO.: 1910900-1211
SHEET NO.: MS1 # OF #

70C POLE DETAILS




| NOTATION | DIMENSION LSS70D |
|---|---|
| A | 16'-0" |
| | |
| C | 2'-0" NOM. |
| D | 1'-0" NOM. |
| | |
| F | 4'-8" NOM. |
| G | 6" |
| H | 6'-1 1/2" NOM. 5'-3 3/4" MIN. |
| | |
| I | 7'-11 1/2" NOM. |
| J | 5'-1 1/2" NOM. |
| K | 3'-11 1/4" NOM. 2'-7 3/4" MIN. |
| L | 4'-11 1/2" NOM. |



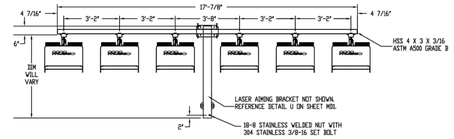




| SPECIFICATIONS | |
|---|---|
| BASE LENGTH | 23'-11" |
| DESIGN MOMENT CAPACITY | 258 FT-K |
| SHIPPING WEIGHT | 4920 LBS |
| PRODUCTION WEIGHT | 4580 LBS |
| VOLUME OF CONCRETE | 1.13 CU YD |
| 28 DAY CONC. STRENGTH | 5,500 PSI |
| NUMBER OF STRANDS | 18 |
| INITIAL PULL PER STRAND | 26.5 KIPS |
| TIP WALL THICKNESS | 3-5/16" |
| BUTT WALL THICKNESS | 3-7/8" |
| PRESTRESS LOSS/STRAND | 4.8 KIPS |
| FINAL STRAND FORCE | 21.7 KIPS |
| RELEASE STRENGTH | 5,000 PSI |

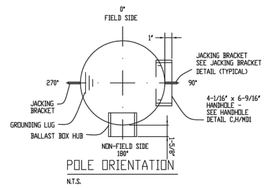


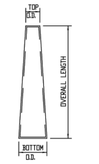

PLAN SECTION B-B

A TYPE 5B PRECAST BASE DETAIL
N.T.S. DSA-5Bconc_M




B 6 FIXTURE CONFIGURATION
N.T.S. DSA-88C-1500_A




TOP/MIDDLE/BOTTOM
POLE SECTION

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 183.2 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 29 LBS PER FIXTURE SERVICED

| POLE SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| SITE LOCATION | POLE MARK | REFERENCE LOCATION | POLE TYPE | FIXTURE CONFIGURATION | TOTAL EPA[1] | BALLAST BOX REQUIREMENTS |
| SEE SITE PLAN (BY OTHERS) | CL2E | SEE POLE ORIENTATION PLAN | LSS70D | 6 - SEE DETAIL B/M02 | 22.34 | SEE DETAIL SL/M01 |
| | | | | | | |
| | | | | | | |

DSA-POLESCHE_C

| POLE DATA TABLE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| POLE TYPE | PIECE MARK | MAX NUMBER OF X-Arms | POLE SECTION | TOP O.D. (INCHES) | BTM. O.D. (INCHES) | OVERALL LENGTH | STRAIGHT LENGTH | TAPER LENGTH | THICKNESS (INCHES) | TOP OF STEEL NOMINAL | ASTM REFERENCE |
| LSS70D | MP-4BTDSA-6 | 1 | FIXTURE MOUNTING | 9.118" | 13.582" | 31'-10 5/8" | ----- | 31'-10 5/8" | .179 | 70'-8 1/2" | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-6BTDSA-D | | #1 | 12.672" | 18.407" | 40'-11 5/8" | ----- | 40'-11 5/8" | .239 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-5BDSA | | PRECAST BASE | FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/- | | | | | | | |

DSA-70DT_A

DSA-7A_A



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PLOT DATE: 03-26-20 PLOTTED BY: station40

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CONSULTANT

KEYMAP

Cesar Chavez HS Baseball
FIELD LIGHTING
Stockton, CA

REGISTERED PROFESSIONAL ENGINEER ★ STRUCTURAL ★ STATE OF CALIFORNIA
No. S6130 Exp. 6-30-21

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KNA JOB NO.: 343.566

musco Lighting
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

SHEET TITLE
70D POLE DETAIL

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY
IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
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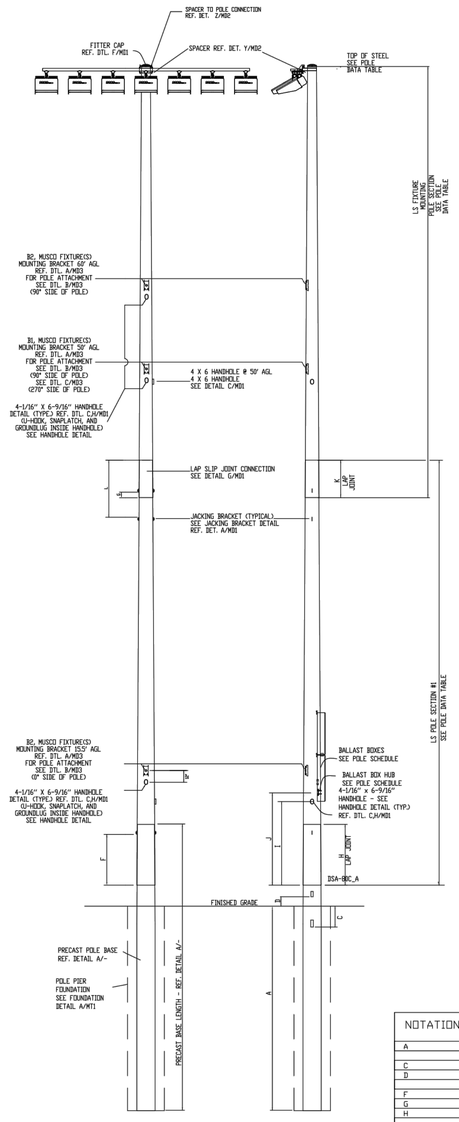
DRAWING TITLE: 70D POLE DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCES

PROJECT NO.: 201787
DATE: 03/20/2020
DRAWN BY: K.Butterbaugh
DRAWING NO.: 3 OF 7 MS2

DRAWN BY: -
CHECKED BY: CS
DATE ISSUED: 03/27/20
SCALE: AS NOTED
PROJ. NO.: 1910900-1211
SHEET NO.: MS2 # OF #

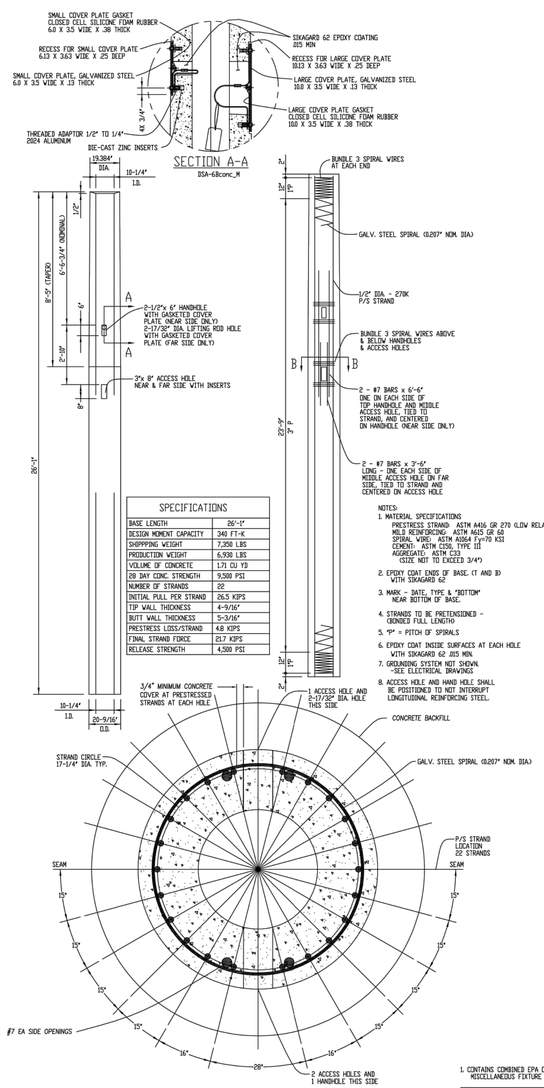
70D POLE DETAILS




LSS80C POLE FRONT VIEW
N.T.S.

LSS80C POLE SIDE VIEW
DSA-80C8ASE_A

| NOTATION | DIMENSION LSS80C |
|---|---|
| A | 18'-0" |
| C | 2'-0" NOM. |
| D | 1'-0" NOM. |
| F | 4'-10" NOM. |
| G | 6" |
| H | 6'-5 7/8" NOM. 5'-3 3/4" MIN. |
| I | 8'-1 1/2" NOM. |
| J | 9'-3 1/2" NOM. |
| K | 4'-7 7/8" NOM. 3'-1 1/2" MIN. |
| L | 5'-6 1/2" NOM. |

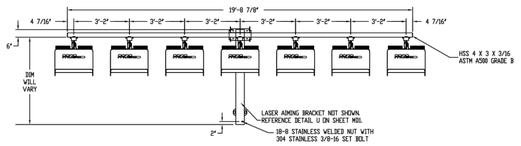



PLAN SECTION B-B

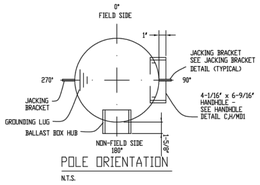
A TYPE 6B PRECAST BASE DETAIL
N.T.S. DSA-68conc_M

NOTES:
1. MATERIAL SPECIFICATIONS
PRESTRESS STRAND: ASTM A416 GR 270 (LOW RELAXATION)
MILD REINFORCING: ASTM A615 GR 60
SPIRAL WIRE: ASTM A1064 Fy=70 KSI
CEMENT: ASTM C150, TYPE III
AGGREGATE: ASTM C33
(SIZE NOT TO EXCEED 3/4")
2. EPOXY COAT ENDS OF BASE. (T AND B) WITH SIKAGARD 62
3. MARK - DATE, TYPE & "BOTTOM" NEAR BOTTOM OF BASE.
4. STRANDS TO BE PRETENSIONED - DEBONDED FULL LENGTH
5. "P" = PITCH OF SPIRALS
6. EPOXY COAT INSIDE SURFACES AT EACH HOLE WITH SIKAGARD 62 .015 MIN.
7. GROUNDING SYSTEM NOT SHOWN. -SEE ELECTRICAL DRAWINGS
8. ACCESS HOLE AND HAND HOLE SHALL BE POSITIONED TO NOT INTERRUPT LONGITUDINAL REINFORCING STEEL.

| SPECIFICATIONS | |
|---|---|
| BASE LENGTH | 26'-1" |
| DESIGN MOMENT CAPACITY | 340 FT-K |
| SHIPPING WEIGHT | 7,250 LBS |
| PRODUCTION WEIGHT | 6,930 LBS |
| VOLUME OF CONCRETE | 1.71 CU YD |
| 28 DAY CONC. STRENGTH | 9,500 PSI |
| NUMBER OF STRANDS | 20 |
| INITIAL PULL PER STRAND | 26.5 KIPS |
| TIP WALL THICKNESS | 4-9/16" |
| BUTT WALL THICKNESS | 5-3/16" |
| PRESTRESS LOSS/STRAND | 4.8 KIPS |
| FINAL STRAND FORCE | 21.7 KIPS |
| RELEASE STRENGTH | 4,500 PSI |




B 7 FIXTURE CONFIGURATION
N.T.S. DSA-870-1500_A



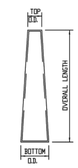

POLE ORIENTATION
N.T.S.

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 1030 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 20 LBS PER FIXTURE SERVICED

| POLE SCHEDULE | | | | | | | |
|---|---|---|---|---|---|---|---|
| SITE LOCATION | POLE MARK | REFERENCE LOCATION | POLE TYPE | FIXTURE CONFIGURATION | TOTAL EPA[1] | BALLAST BOX REQUIREMENTS |
| SEE SITE PLAN (BY OTHERS) | BLBE | SEE POLE ORIENTATION PLAN | LSS80C | 7 - SEE DETAIL B/M53 | 25.97 | SEE DETAIL VI_/M01 |
| | | | | | | |
| | | | | | | |

DSA-POLESCHE_C




TOP/MIDDLE/BOTTOM POLE SECTION

| POLE DATA TABLE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| POLE TYPE | PIECE MARK | MAX NUMBER of X-Arms | POLE SECTION | TOP O.D. (INCHES) | BTM. O.D. (INCHES) | OVERALL LENGTH | STRAIGHT LENGTH | TAPER LENGTH | THICKNESS (INCHES) | TOP OF STEEL | ASTM REFERENCE |
| LSS80C | MP-5BTTDSA-7 | 1 | FIXTURE MOUNTING | 10.150" | 15.965" | 41'-6 3/8" | ----- | 41'-6 3/8" | .179 | 80'-0 1/8" NOM. 81'-1" EXP. | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-7BTDSA-D | | #1 | 14.954" | 20.770" | 41'-6 1/2" | ----- | 41'-6 1/2" | .239 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-6BDSA | | PRECAST BASE | FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/- | | | | | | | |

DSA-80C8T_A

DSA-80_A



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CONSULTANT

KEYMAP

Cesar Chavez HS Baseball
FIELD LIGHTING
Stockton, CA

REGISTERED PROFESSIONAL ENGINEER * MECHANICAL * No. 4206 * Exp. 06-30-21 * STRUCTURAL * STATE OF CALIFORNIA

CONSULTANT
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9951 Business Park Drive, Sacramento, CA 95827
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CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

SHEET TITLE
80C POLE DETAIL

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

DRAWING TITLE: 80D POLE DETAILS
SCALE: SEE PLAN -
REVISIONS
REFERENCES

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
| | |

| NO. | REVISIONS | DATE |
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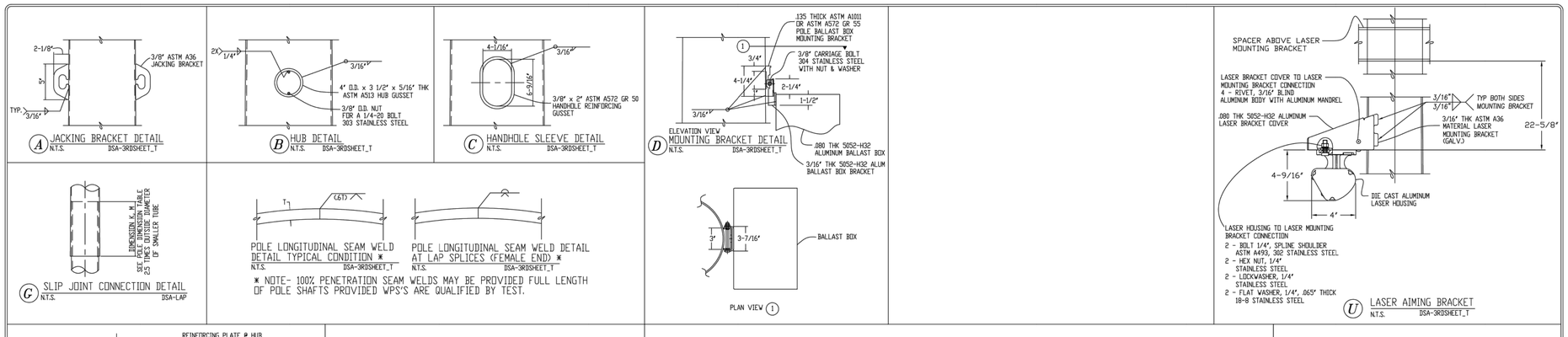
PROJECT NO.: 201787
DATE: 03/20/2020
DRAWN BY: K.Butterbaugh
DRAWING NO.: 4 OF 7 MS3

DRAWN BY: -
CHECKED BY: CS
DATE ISSUED: 03/27/20
SCALE: AS NOTED
PROJ. NO.: 1910900-1211
SHEET NO.: MS3 # OF #

80C POLE DETAILS





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Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
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CONSULTANT

KEYMAP

Cesar Chavez HS Baseball
FIELD LIGHTING
Stockton, CA

KNA STRUCTURAL ENGINEERS
999 Rancho Rosa Court, Vista, CA 92083
tel: 760.599.0962 fax: 760.599.0810
www.KNAstructural.com
KNA JOB NO.: 363.566

musco Lighting
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

SHEET TITLE
ATTACHMENT DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

DRAWING TITLE: ATTACHMENT DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCE

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
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| NO. | REVISIONS | DATE |
|---|---|---|
| 1 | | |
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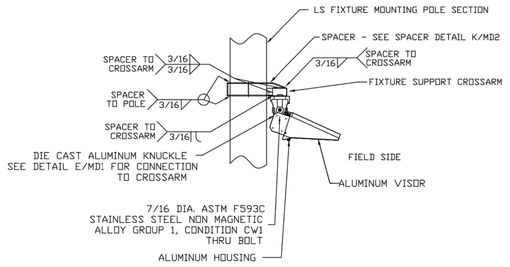
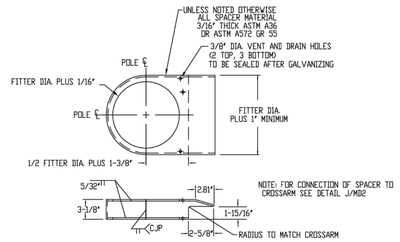
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |

PROJECT NO. 201787
DATE: 03/20/2020
DRAWN BY: K.Butterbaugh
DRAWING NO. 5 OF 7 MD1

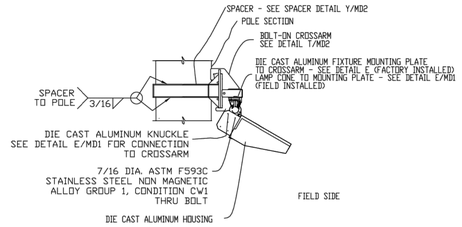
DRAWN BY: -
CHECKED BY: CS
DATE ISSUED: 03/27/20
SCALE: AS NOTED
PROJ. NO. 1910900-1211
SHEET NO. MD1 # OF #



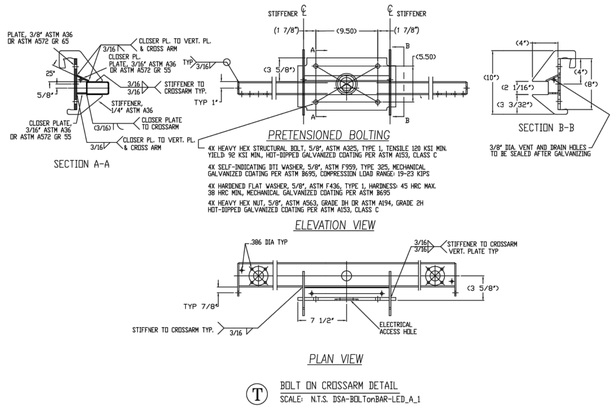

J LIGHT FIXTURE (TYPICAL)
N.T.S. DSA-WEDGE4-WELDON_A



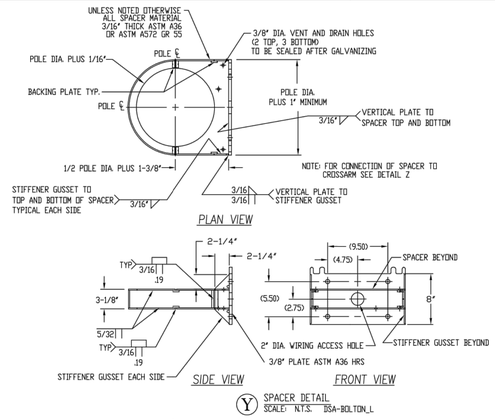

K SPACER DETAIL
N.T.S. DSA-SPACERWELDON_K




Z LIGHT FIXTURE (TYPICAL)
SCALE: N.T.S.
DSA-1500-BOLTON_A




T BOLT ON CROSSARM DETAIL
SCALE: N.T.S. DSA-BOLTonBAR-LED_A_1




Y SPACER DETAIL
SCALES: N.T.S. DSA-BOLTON_L





IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.6554
fax: 408.985.7360
www.VerdeDesigninc.com

Cesar Chavez HS Baseball
FIELD LIGHTING
Stockton, CA

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER SCOTT SCHMIDT No. 46516 Exp. 6-30-21 CIVIL STRUCTURAL STATE OF CALIFORNIA
CONSULTANT
KNA STRUCTURAL ENGINEERS
9251 Atkinson Boulevard, Poway, CA 92064
Tel: (858) 486-8900 Fax: (858) 486-8901
www.KNAStructuralEngineers.com
KNA JOB NO.: 361.566

MUSCO Lighting
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

DRAWING TITLE: ATTACHMENT DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCES

PROJECT NO. 201787
DATE: 03/20/2020
DRAWN BY: K.Butterbaugh
DRAWING NO. 6 OF 7 MD2

STRU-HSE

STAMP

CONSULTANT

KEYMAP

SHEET TITLE
ATTACHMENT DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY
IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
| DD/50% SUBMITTAL | 10/25/19 |
| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
| | |
| | |

| NO. | REVISIONS | DATE |
|---|---|---|
| | | |
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| DRAWN BY | CHECKED BY |
|---|---|
| - | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | AS NOTED |
| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| MD2 | # OF # |

ATTACHMENT DETAILS

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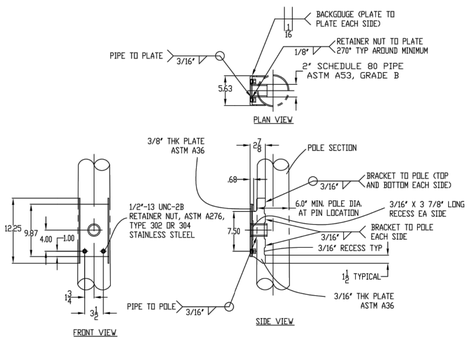
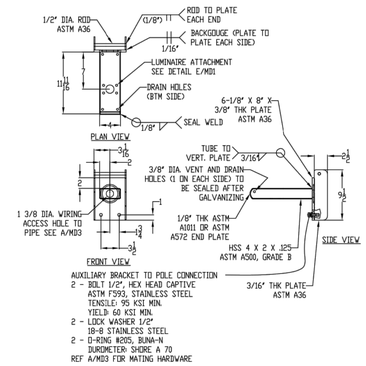
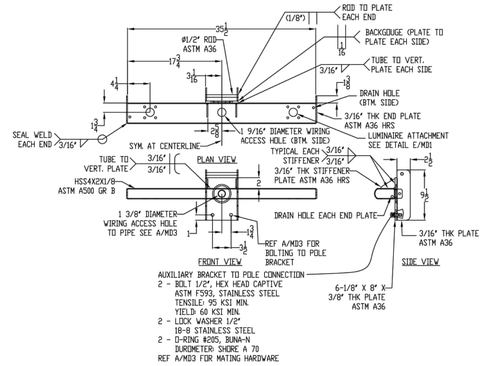
PLOT DATE: 03-26-20 PLOTTED BY: station42



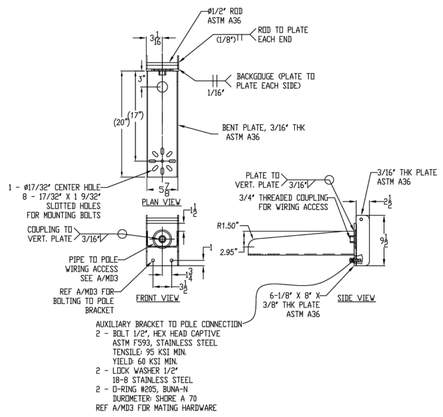

A BRACKET DETAIL
N.T.S. DSA-Brk-Dtl-L_A




B 1P AUXILIARY MOUNTING BRACKET
N.T.S. DSA-1P FIXTURE MOUNT_E




C 2P AUXILIARY MOUNTING BRACKET
N.T.S. DSA-2P FIXTURE MOUNT_E




S 1P INVERTED LONG-NOSE TRUNNION MOUNT
N.T.S. DSA-1P EXT-INV TRUNNION_A





DRAWING NAME: Y:\Projects-FO\2019\1910900 - Chavez Restart\CAD_Musco Lighting- Athletics.dwg
PLOT DATE: 03-26-20 PLOTTED BY: station40

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118017 INC:
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DATE: 04/10/2020

VERDE DESIGN
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STAMP

CONSULTANT

KEYMAP

Cesar Chavez HS Baseball
FIELD LIGHTING
Stockton, CA

REGISTERED PROFESSIONAL ENGINEER ★ VINCENT CHONG ★ No. 46855 Exp. 6-30-21 ★ STATE OF CALIFORNIA ★ STRUCTURAL

CONSULTANT
KNA STRUCTURAL ENGINEERS
9511 Business Boulevard, Oakland, CA 94603
Tel: (415) 882-3001 www.knastructural.com
KNA JOB NO.: 363.066

musco Lighting
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

DRAWING TITLE: ATTACHMENT DETAILS
SCALE: SEE PLAN
REVISIONS
REFERENCE:

PROJECT NO. 201787
DATE: 03/20/2020
DRAWN BY: K.Butterbaugh
DRAWING NO. 7 OF 7 MD3

SHEET TITLE
ATTACHMENT DETAILS

PROJECT NAME
CHAVEZ HIGH SCHOOL
STOCKTON USD
ATHLETIC FACILITY IMPROVEMENTS

PROJECT ADDRESS
2929 WINDFLOWER LN
STOCKTON, CA 95212

| SUBMITTAL | DATE |
|---|---|
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| DSA SUBMITTAL | 12/20/19 |
| DSA BACKCHECK SUBMITTAL | 03/27/20 |
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| NO. | REVISIONS | DATE |
|---|---|---|
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| DRAWN BY | CHECKED BY |
|---|---|
| - | CS |
| DATE ISSUED | SCALE |
| 03/27/20 | AS NOTED |
| PROJ. NO. | |
| 1910900-1211 | |
| SHEET NO. | |
| MD3 | # OF # |

ATTACHMENT DETAILS

# NEVCO

## TESTS AND INSPECTION (DSA 103)

**Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.**

| REQUIRED | TEST OR SPECIAL INSPECTION | TYPE | PERFORMED BY | CODE REFERENCE AND NOTES |
|---|---|---|---|---|
| - | **SOILS** | | | |
| - | **1. GENERAL:** | Table 1705A.6 | | |
| X | a. Verify that:<br>• site has been prepared properly prior to placement of controlled fill and/or excavations for foundations;<br>• foundation excavations are extended to proper depth and have reached proper material, and<br>• materials below footings are adequate to achieve the design bearing capacity. | Periodic | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.) |
| - | **2. COMPACTED FILLS:** | Table 1705A.6 | | |
| X | b. Verify use of proper materials, densities and inspect lift thicknesses, placement, and compaction during placement of fill. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| X | c. Test compaction of fill. | Test | LOR* | * Under the supervision of the geotechnical engineer. |
| - | **4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):** | Table 1705A.6 | | |
| X | a. Inspect drilling operations and maintain complete and accurate records for each pier. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.) |
| X | c. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.) |
| X | d. Confirm adequate end strata bearing capacity. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.) |
| X | e. Concrete piers. | Provide tests and inspections per CONCRETE section below. | | |
| - | **CONCRETE** | Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13 | | |
| - | **7. CAST IN PLACE CONCRETE** | | | |
| | **Material Verification and Testing:** | | | |
| X | a. Verify use of required design mix. | Periodic | SI* | Table 1705A.3 Item 5, 1910A.1 (1909.2.3*), * To be performed by qualified batch-plant inspector and concrete sampling technician |
| X | b. Identify, sample, and test reinforcing steel. | Test | LOR | 1910A.2 (1909.2.4*), ACI 318-14 Section 26.6.1.2. DSA IR 17-10.16 |
| X | c. During concrete placement, fabricate specimens for strength tests,perform slump and air content tests, and determine the temperature of the concrete. | Test | LOR | Table 1705A.3 Item 6; ACI 318-14 Sections 26.5 & 26.12 |
| X | d. Test concrete ($f'_c$). | Test | LOR | 1905A.1.16 (1909.3.7*), ACI 318-14 Section 26.12. |
| | **Inspection:** | | | |
| X | e. Batch plant inspection ◉ Continuous ○ Periodic | See Notes | SI | Default of **'Continuous' per 1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705A.3.3.1** or eliminated per **1705A.3.3.2**. (See Appendix for exemptions.) |
| + | **MASONRY** | TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5 | | |
| - | **STEEL, ALUMINUM** | Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10 | | |
| - | **17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES** | | | |
| | **Material Verification:** | | | |
| X | a. Verify identification of all materials and:<br>• Mill certificates indicate material properties that comply with requirements,<br>• Material sizes, types and grades comply with requirements. | Periodic | * | **2203A.1** (2203.1*), **Table 1705A.2.1 Item 3a-3c;** AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S200-12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when performed off-site. |
| X | b. Test unidentified materials | Test | LOR | **2203A.1** (2203.1*). |
| | **Inspection:** | | | |
| X | e. Verify and document steel fabrication per DSA approved construction documents. | Periodic | SI | Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**). |
| - | **19. WELDING:** | | | **1705A.2.5, Table 1705A.2.1 Items 4 & 5**; DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.) |
| | **Verification of Materials, Equipment, Welders, etc:** | | | |
| X | a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS. | Periodic | SI | DSA IR 17-3. |
| X | b. Verify weld filler material manufacturer's certificate of compliance. | Periodic | SI | DSA IR 17-3. |
| X | c. Verify WPS, welder qualifications and equipment. | Periodic | SI | DSA IR 17-3. |
| - | 19.1 **SHOP WELDING:** | | | |
| X | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds | Continuous | SI | **Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. |
| X | b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds | Periodic | SI | **1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. |
| - | 19.2 **FIELD WELDING:** | | | |
| X | b. Inspect single-pass fillet welds ≤ 5/16" | Periodic | SI | **Table 1705A.2.1 Item 5a.5.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3. |
| - | **23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:** | | | |
| X | a. Anchor Bolts and Anchor Rods | Test | LOR | IR 17-11 Sample and test anchor bolts and anchor rods not readily identifiable. |
| + | **WOOD** | | | |
| - | **OTHER** | | | |
| X | **28. Test non-shrink grout strength** | Test | LOR | |
| X | **29. Installation of non-shrink grout** | Periodic | SI | |

**List of required verified report(s):**

1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
2 All Structural Testing: Laboratory Verified Report - Form DSA-291
3 Concrete Batch Plant Inspection: Laboratory Verified Report - Form DSA-291
4 Shop Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
5 Field Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292

**KEY to Columns**

| 1 Type - | 2 Performed By - |
|---|---|
| **Continuous** – Indicates that a continuous special inspection is required | **GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative |
| **Periodic** – Indicates that a periodic special inspection is required | **LOR** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1. |
| **Test** – Indicates that a test is required | **SI** – Indicates that the special inspection is to be performed by a special inspector |

Name of Architect or Engineer in general responsible charge

Name of Structural Engineer (When structural design has been delegated)

Signature of Architect or Structural Engineer date

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DIV OF THE STATE ARCHITECT
APP. #
AC. N/A F/LS. N/A SS
DATE

## TABLE C - SITE SPECIFIC SEISMIC AND WIND VALUES

| EARTHQUAKE DESIGN DATA | |
|---|---|
| Mapped Spectral Response Accelerations (Maximum) | $S_S$= _____ g<br>$S_1$= _____ g |
| Site Class | |
| Spectral Response Coefficients (Maximum) | $S_{DS}$= _____ g<br>$S_{D1}$= _____ g |

| Wind Design Data | Value |
|---|---|
| Design Wind Speed (3-sec gust), $V_{ULT}$ | _____ mph |
| Exposure Category | C |

## TABLE D - SITE SPECIFIC SOIL EXPOSURE CLASS

THIS SECTION NOT REQUIRED IF CONCRETE f'c = 4500psi, w/c = 0.45

Circle exposure class applicable: F0, S0, W0, C0, C1

Geotechnical Engineer:_____

Letter Dated:_____

## TABLE E - SITE FLOOD ZONE

THIS SECTION NOT REQUIRED IF SITE IS IN FLOOD ZONE X

Geotechnical Engineer:_____

Letter Dated:_____

## TABLE B - STRUCTURAL DESIGN VALUES

All values reported are unfactored and strength level, unless noted otherwise

| Gravity Design Data | Value |
|---|---|
| Dead Loads: | |
| Sign Dead Load | PER SCHEDULE |
| Snow Loads: | |
| Ground Snow Load, $P_g$ (Maximum) | 30 psf |
| Deflection Criteria: | |
| Sign, Wind Load | H/360 |

| Wind Design Data | Value |
|---|---|
| Design Wind Speed (3-sec gust), $V_{ULT}$ | 115 mph |
| Design Wind Speed (3-sec gust), $V_{ASD}$ | 90 mph |
| Risk Category | II |
| Exposure Category | C |
| Applicable Internal Pressure Coefficient | ± 0.18 |
| Design Wind Pressure(s) for Components & Cladding (Not specifically designed by the Registered Design Professional, and to be modified by applicable factors per ASCE 7) | $q_h$=28.8xK$_z$ psf<br>K$_z$VARIES |

| Earthquake Design Data | Value |
|---|---|
| Risk Category | II |
| Importance Factor, $I_e$ | 1.0 |
| Mapped Spectral Response Accelerations (Maximum) | $S_S$= 3.73 g<br>$S_1$= 1.0 g |
| Site Class | A through E |
| Spectral Response Coefficients (Maximum) | $S_{DS}$= 2.49 g<br>$S_{D1}$= 1.0 g |
| Seismic Design Category | E |
| Analysis Procedure Used: Equivalent Lateral Force Procedure (ASCE 7, 12.8) | |
| Basic Seismic-Force Resisting System: Non-Building Structure, ASCE 7-10 Chapter 15 | |
| Response Modification Factor, Signs and Billboards Table 15.4-2 | R= 3.0 |
| Seismic Response Coefficient | $C_s$= 0.83 |
| Design Base Shear | V= $C_s$ $W_D$ |

| Flood Design | Value |
|---|---|
| When the scoreboard is located in a flood zone other than Zone X, a letter stamped and signed from a GeotechnicalEngineer is needed to validate allowable soil values specified in the PC are still applicable. | |

| Geotechnical Design Data | Value |
|---|---|
| Geotechnical Design Based on: 2016 California Building Code, Chapter 18A, Table 1806.A.2 (Class 5 Material) | |
| Allowable Soil Bearing Pressure (DL + LL) | 1,500 psf |
| Design Passive Pressure, $P_p$ (Tabular value has been increased per CBC Section 1806A.3.4 for pier design) | 100 pcf |
| Design Skin Friction, $f_s$ | 100 psf |

## SCOREBOARD ASSEMBLY WORKSHEET INSTRUCTIONS

STEP 1: DETERMINE DESIRED SCOREBOARD ASSEMBLY. FILL OUT SCOREBOARD ASSEMBLY TABLE (TABLE A BELOW). PROVIDE NEVCO PART NUMBERS, PART HEIGHT, PART WIDTH, AND PART WEIGHTS.

STEP 2: DETERMINE TOTAL ASSEMBLY HEIGHT, WIDTH, AND WEIGHT

STEP 3: BASED ON TOTAL ASSEMBLY WIDTH, DETERMINE THE NUMBER OF REQUIRED COLUMNS.
SEE SHEETS SB1.X FOR 1 COLUMN ASSEMBLY OPTIONS
SB2.X FOR 2 COLUMN ASSEMBLY OPTIONS
SB3.X FOR 3 COLUMN ASSEMBLY OPTIONS
SB4.X FOR 4 COLUMN ASSEMBLY OPTIONS

STEP 4: PICK FOUNDATION TYPE (CAISSON WITH EMBEDDED COLUMN, CAISSON WITH BOLTED COLUMN, OR MAT FOOTING) AND BRACED OR UNBRACED COLUMN OPTION. MARK APPLICABLE SHEET ON SHEET INDEX, SB0.1

STEP 5: MARK APPLICABLE CHECK BOX ON DETAIL 'A' OF SELECTED COLUMN/FOUNDATION OPTION

STEP 6: FILL IN SITE SPECIFIC SEISMIC AND WIND VALUES TABLE C ON SB0.1.

STEP 7: FILL IN SITE SPECIFIC SOIL EXPOSURE CLASS TABLE D ON SB0.1 (OPTIONAL)

STEP 8: FILL IN SITE SPECIFIC FLOOD ZONE AS REQUIRED, TABLE E ON SB0.1

STEP 9: VERIFY ALL APPLICABLE SHEETS ARE MARKED ON SHEET INDEX, SB0.1. INCLUDE ALL MARKED SHEETS AS PART OF DSA SUBMITTAL

## TABLE A - SCOREBOARD ASSEMBLY WORKSHEET (1)

| Nevco Part No.or Description | Part Height [ft.] | Part Width [ft] | Part Weight [lb] |
|---|---|---|---|
| MC-16-C-DS-3x10 | 3' | 10' | 900 (2) |
| ADL 10-2 | 2' | 10' | 240(2) |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Total | 5 | 10 | 1140 |

TOTAL ASSEMBLY DIMENSIONS & WEIGHT (2)

| | | | |
|---|---|---|---|
| Total Assembly Height = | 5' ft. ____ in. | | |
| Total Assembly Width = | 10' ft. ____ in. | | |
| Total Assembly Weight = | 1140 lbs. | | |
| Distance from Finish Grade to Bottom of Sign = | 10' ft. ____ in. | Total Height = Total Assembly Height + Distance from Finish Grade to Bottom of Sign = | 15' ft. ____ in. |

SCOREBOARD ASSEMBLY FOOTNOTES

1. Verify part number, dimensions, and weight with Nevco
2. See Step 3 of Scoreboard Assembly Worksheet Instructions

## SITE SPECIFIC SUBMITTAL REQUIREMENTS

SEE DSA POLICY PL 07-02 FOR ADDITIONAL INSTRUCTIONS REGARDING USE AND APPLICATION OF THIS PRE-CHECK DOCUMENT. ALL SITE SPECIFIC SUBMITTALS SHALL INCLUDE:

1. COMPLETED DSA 1 APPLICATION AND FILING FEE AND COPY OF THE PRE-CHECK DOCUMENT WITH APPLICABLE DESIGN OPTION MARKED ON THE MARQUEE, TWO COLUMN, THREE COLUMN OR FOUR COLUMN ASSEMBLY SCHEDULES.
2. SITE PLAN OF FACILITY IDENTIFYING ALL STRUCTURES BY DSA APPLICATION NUMBER. LOCATION OF SCOREBOARD SHALL BE IDENTIFIED. ELECTRICAL PANEL SERVING THE SCOREBOARD SHALL BE LOCATED AND IDENTIFIED.
3. WHERE WIRELESS CONTROLLERS ARE NOT SPECIFIED, AN ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE SEATING FOR THE SCOREBOARD OPERATOR SHALL BE IDENTIFIED AND PROVIDED.
4. PROVIDE AN ELEVATION OF PROPOSED SCOREBOARD IDENTIFYING ALL INSTALLED DISPLAY COMPONENTS, SIGNAGE, TRUSSES, AND ADDITIONAL COMPONENTS IN THE PRE-CHECK DOCUMENT. ALL ELEMENT WEIGHTS SHALL BE SPECIFIED.
5. THE APPLICABLE SHEETS SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THIS SHEET.
6. THE APPLICABLE CONFIGURATION SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THE 'A' DETAILS ON THE APPLICABLE SHEET.
7. PROVIDE CUT SHEETS OF THE BOARDS, BOXES, AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE. CUT SHEETS SHALL INCLUDE WEIGHTS AND DIMENSIONS
8. SITE SPECIFIC SEISMIC DESIGN CRITERIA SHALL BE PROVIDED IN THE DRAWINGS.
9. SITE SPECIFIC BASIC DESIGN WINDSPEED AND SITE EXPOSURE SHALL BE PROVIDED ON THE DRAWINGS.
10. STEEL COATING SPECIFICATIONS FOR WEATHER PROTECTION IF DIFFERENT THAN NOTED ON SB0.3
11. A GEOHAZARD REPORT IS NOT REQUIRED PER IR A-4.13. IF A SCOREBOARD IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED BY A GEOTECHNICALENGINEER IS REQUIRED VALIDATING THE ALLOWABLE SOIL VALUES. IF THE CONCRETE COMPRESSIVE STRENGTH OPTION OF f'c = 3000psi IS USED, A GEOTECHNICALENGINEER SHALL PROVIDE A STAMPED AND SIGNED LETTER CONFIRMING THE SOIL EXPOSURE CLASS.
12. PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES THAT DO NOT MEET THE MINIMUM SETBACK REQUIREMENTS.
13. PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F.

| CHECK ALL THAT APPLY | SHEET INDEX | |
|---|---|---|
| ■ (REQ'D) | SB0.1 | COVER SHEET |
| ■ (REQ'D) | SB0.2 | EXAMPLE SCOREBOARD WORKSHEET & PART NUMBERS |
| ■ (REQ'D) | SB0.1 | STRUCTURAL NOTES & SPECIAL INSPECTION |
| ☐ | SB1.1 | MARQUEE CAISSON - EMBEDDED |
| ☒ X | SB1.2 | MARQUEE CAISSON - BOLTED |
| ☐ | SB1.3 | MARQUEE MAT FOOTING |
| ☐ | SB2.1 | TWO COLUMN CAISSON - EMBEDDED |
| ☐ | SB2.1b | TWO COLUMN, BRACED, CAISSON - EMBEDDED |
| ☐ | SB2.2 | TWO COLUMN CAISSON - BOLTED |
| ☐ | SB2.2b | TWO COLUMN, BRACED, CAISSON - BOLTED |
| ☐ | SB2.3 | TWO COLUMN MAT FOOTING |
| ☐ | SB2.3b | TWO COLUMN, BRACED, MAT FOOTING |
| ☐ | SB3.1 | THREE COLUMN CAISSON - EMBEDDED |
| ☐ | SB3.1b | THREE COLUMN, BRACED, CAISSON - EMBEDDED |
| ☐ | SB3.2 | THREE COLUMN CAISSON - BOLTED |
| ☐ | SB3.2b | THREE COLUMN, BRACED, CAISSON - BOLTED |
| ☐ | SB3.3 | THREE COLUMN MAT FOOTING |
| ☐ | SB3.3b | THREE COLUMN, BRACED, MAT FOOTING |
| ☐ | SB4.1 | FOUR COLUMN CAISSON - EMBEDDED |
| ☐ | SB4.1b | FOUR COLUMN, BRACED, CAISSON - EMBEDDED |
| ☐ | SB4.2 | FOUR COLUMN CAISSON - BOLTED |
| ☐ | SB4.2b | FOUR COLUMN, BRACED, CAISSON - BOLTED |
| ☐ | SB4.3 | FOUR COLUMN MAT FOOTING |
| ☐ | SB4.3b | FOUR COLUMN, BRACED, MAT FOOTING |
| ■ (REQ'D) | SB5.1 | ATTACHMENT DETAILS |

## CODE INFORMATION

2016 CALIFORNIA BUILDING STANDARDS CODE (TITLE 24, CCR):

2016 ADMINISTRATIVE CODE, PART 1, TITLE 24 CODE OF REGULATIONS (CCR)
2016 CALIFORNIA BUILDING CODE VOLUMES 1 &2, PART 2, TITLE 24 CCR
2016 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
2016 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
2016 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 CCR
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS:
2016 CALIFORNIA BUILDING CODE, CHAPTER 35
2016 CALIFORNIA FIRE CODE, CHAPTER 80

GENERAL REQUIREMENTS

1. THE ARCHITECT OR PROFESSIONAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS PER TITLE 24, PART 1, SECTIONS 4-316(E) AND 4-317 (H).
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA, OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY TITLE 24, PART 1, SECTION 4-338.
3. THE DISTRICT SHALL EMPLOY A CLASS 2 PROJECT INSPECTOR WHEN OVERALL STRUCTURE HEIGHT IS 35 FEET OR GREATER, OTHERWISE A CLASS 3 PROJECT INSPECTOR MAY BE USED. THE PROJECT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK , AND SHALL SUBMIT VERIFIED REPORTS ON A DSA-6 FORM. THE DUTIES OF THE PROJECT INSPECTION ARE DEFINED IN TITLE 24, PART 1, SECTION 4-342.
4. ALL SCOREBOARD CONTROLS SHALL BE FULLY ACCESSIBLE VIA WIRELESS CONTROL OR AS DEMONSTRATED IN THE SITE-SPECIFIC APPLICATION.
5. ALL ASSEMBLIES SHALL HAVE ELECTRICAL DISCONNECT PER CEC 600.6 AND BE ELECTRICALLY GROUNDED PER CEC 600.7, SEE DETAIL B/SB5.1
6. IN FLOOD ZONES, LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO ASCE 24, SECTION 7.2 PER DSA PR-14-01 SECTION 1.2.1.

## GENERAL NOTES AND MATERIAL SPECIFICATIONS

SEE FOLLOWING PAGE, SB0.3, FOR ALL MATERIAL SPECIFICATIONS AND NOTES.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

REGISTERED PROFESSIONAL ENGINEER MICHAEL E. MAGNAN No. 5405 STRUCTURAL STATE OF CALIFORNIA

SEOR SEAL DATE SIGNED: 10.16.18



NEVCO
301 East Harris Avenue, Greenville, Illinois 62246
Phone: (618) 664-0360
www.nevco.com

PRE-CHECK (PC) DOCUMENT
CODE: 2016
A separate project application for construction is required.

DSA FILE NUMBER: PC-90
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02-116492
AC 317 FLS 492 SS ST
DATE: 10/16/18
DSA STAMP SS: Stephen Ito FLS: Greg Galeote ACS: Alex Ellsses

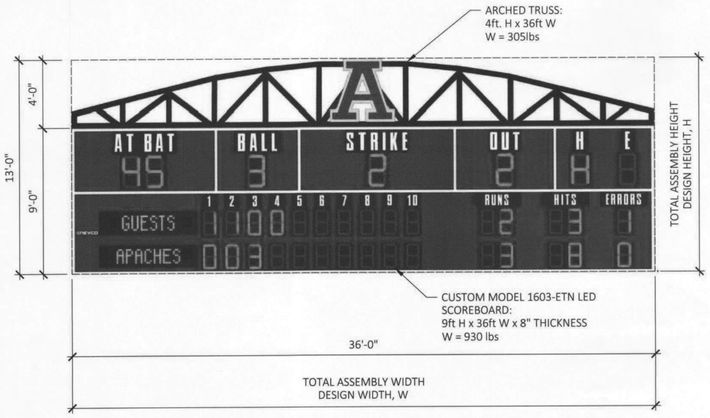
COVER SHEET

SHEET INFORMATION

| | |
|---|---|
| DATE | 10.16.18 |
| DRAWN | JMK / JMM |
| CHECKED | JMM / MEP |
| SSG JOB # | S17015 |
| SHEET | SB0.1 |

# SCOREBOARD & WORKSHEET EXAMPLES

## EXAMPLE 3




**SCOREBOARD ASSEMBLY WORKSHEET (1) - EXAMPLE 3**

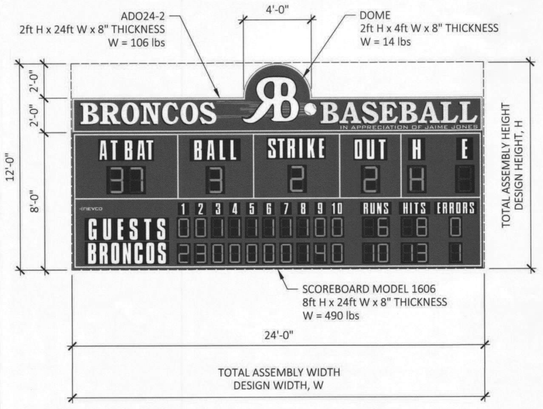
| Nevco Part No. or Description | Part Height [ft.] | Part Width [ft] | Part Weight [lb] |
|---|---|---|---|
| ARCHED TRUSS | 4 ft | 36 ft | 305 lbs. |
| MODEL 1603-ETN LED SCOREBORD | 9 ft | 36 ft | 930 lbs. |
| | | | |
| | | | |
| | | | |
| Total | 13 ft | 36 ft | 1235 lbs. |

| TOTAL ASSEMBLY DIMENSIONS & WEIGHT (2) | | | |
|---|---|---|---|
| Total Assembly Height = | 13 ft. 0in. | | |
| Total Assembly Width = | 36 ft. 0in. | | |
| Total Assembly Weight = | 1235 lbs. | | |
| Distance from Finish Grade to Bottom of Sign = | 10 ft. 0in. | Total Height = Total Assembly Height + Distance from Finish Grade to Bottom of Sign = | 23 ft. 0in. |

SCOREBOARD ASSEMBLY FOOTNOTES

1. Verify part number, dimensions, and weight with Nevco
2. See Step 3 of Scoreboard Assembly Worksheet Instructions

## EXAMPLE 2




**SCOREBOARD ASSEMBLY WORKSHEET (1) - EXAMPLE 2**

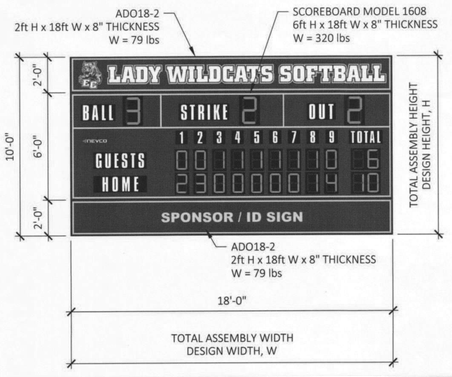
| Nevco Part No. or Description | Part Height [ft.] | Part Width [ft] | Part Weight [lb] |
|---|---|---|---|
| DOME | 2 ft | 4 ft | 14 lbs. |
| ADO24-2 | 2 ft | 24 ft | 106 lbs. |
| MODEL 1606 | 8 ft | 24 ft | 490 lbs. |
| | | | |
| | | | |
| Total | 12 ft | 24ft | 610 lbs. |

| TOTAL ASSEMBLY DIMENSIONS & WEIGHT (2) | | | |
|---|---|---|---|
| Total Assembly Height = | 12 ft. 0in. | | |
| Total Assembly Width = | 24 ft. 0in. | | |
| Total Assembly Weight = | 610 lbs. | | |
| Distance from Finish Grade to Bottom of Sign = | 8 ft. 6in. | Total Height = Total Assembly Height + Distance from Finish Grade to Bottom of Sign = | 20 ft. 6in. |

SCOREBOARD ASSEMBLY FOOTNOTES

1. Verify part number, dimensions, and weight with Nevco
2. See Step 3 of Scoreboard Assembly Worksheet Instructions

## EXAMPLE 1




**SCOREBOARD ASSEMBLY WORKSHEET (1) - EXAMPLE 1**

| Nevco Part No. or Description | Part Height [ft.] | Part Width [ft] | Part Weight [lb] |
|---|---|---|---|
| ADO18-2 | 2 ft | 18 ft | 79 lbs. |
| Model 1608 | 6ft | 18 ft | 320 lbs. |
| ADO18-2 | 2 ft | 18 ft | 79 lbs. |
| | | | |
| | | | |
| Total | 10 ft | 18ft | 478 lbs. |

| TOTAL ASSEMBLY DIMENSIONS & WEIGHT (2) | | | |
|---|---|---|---|
| Total Assembly Height = | 10 ft. 0in. | | |
| Total Assembly Width = | 18 ft. 0in. | | |
| Total Assembly Weight = | 478 lbs. | | |
| Distance from Finish Grade to Bottom of Sign = | 6 ft.8in. | Total Height = Total Assembly Height + Distance from Finish Grade to Bottom of Sign = | 16 ft. 8in. |

SCOREBOARD ASSEMBLY FOOTNOTES

1. Verify part number, dimensions, and weight with Nevco
2. See Step 3 of Scoreboard Assembly Worksheet Instructions

## SCOREBOARD ASSEMBLY WORKSHEET INSTRUCTIONS

STEP 1: DETERMINE DESIRED SCOREBOARD ASSEMBLY. FILL OUT SCOREBOARD ASSEMBLY TABLE. PROVIDE NEVCO PART NUMBERS, PART HEIGHT, PART WIDTH, AND PART WEIGHTS.

STEP 2: DETERMINE TOTAL ASSEMBLY HEIGHT, WIDTH, AND WEIGHT

STEP 3: BASED ON TOTAL ASSEMBLY WIDTH, DETERMINE THE NUMBER OF REQUIRED COLUMNS.
SEE SHEETS SB1.X FOR 1 COLUMN ASSEMBLY OPTIONS
SB2.X FOR 2 COLUMN ASSEMBLY OPTIONS
SB3.X FOR 3 COLUMN ASSEMBLY OPTIONS
SB4.X FOR 4 COLUMN ASSEMBLY OPTIONS

STEP 4: PICK FOUNDATION TYPE (CAISSON WITH EMBEDDED COLUMN, CAISSON WITH BOLTED COLUMN, OR MAT FOOTING) AND BRACED OR UNBRACED COLUMN OPTION. MARK APPLICABLE SHEET ON SHEET INDEX, SB0.1

STEP 5: MARK APPLICABLE CHECK BOX ON DETAIL 'A' OF SELECTED COLUMN/FOUNDATION OPTION

STEP 6: FILL IN SITE SPECIFIC SEISMIC AND WIND VALUES TABLE C ON SB0.1.

STEP 7: FILL IN SITE SPECIFIC SOIL EXPOSURE CLASS TABLE D ON SB0.1 (OPTIONAL)

STEP 8: FILL IN SITE SPECIFIC FLOOD ZONE AS REQUIRED, TABLE E ON SB0.1

STEP 9: VERIFY ALL APPLICABLE SHEETS ARE MARKED ON SHEET INDEX, SB0.1. INCLUDE ALL MARKED SHEETS AS PART OF DSA SUBMITTAL

# NEVCO PART NUMBERS

## SCOREBOARD PART NUMBERS

| Nevco Model No. | Part Height [ft.] | Part Width [ft] | Part Depth [in] | Part Weight [lb] |
|---|---|---|---|---|
| 1600 | 5 ft | 16 ft | 8 in | 260 lbs. |
| 1603 | 9 ft | 36 ft | 8 in | 930 lbs. |
| 1604 | 8 ft | 28 ft | 8 in | 570 lbs. |
| 1606 | 8 ft | 24 ft | 8 in | 490 lbs. |
| 1608 | 6 ft | 18 ft | 8 in | 320 lbs. |
| 1609 | 6 ft | 16 ft | 8 in | 290 lbs. |
| 1610 | 4 ft | 10 ft | 8 in | 130 lbs. |
| 1612 | 5 ft | 10 ft | 8 in | 160 lbs. |
| 1615 | 7 ft | 16 ft | 8 in | 350 lbs. |
| 1617 | 7 ft | 16 ft | 8 in | 350 lbs. |
| 1620 | 4 ft | 10 ft | 8 in | 130 lbs. |
| 1625 | 5 ft | 10 ft | 8 in | 160 lbs. |
| 1630 | 8 ft | 18 ft | 8 in | 410 lbs. |
| 1632 | 5 ft | 12 ft | 8 in | 180 lbs. |
| 1635 | 6 ft | 16 ft | 8 in | 290 lbs. |
| 1640 | 8 ft | 18 ft | 8 in | 410 lbs. |
| 1650 | 3 ft | 8 ft | 8 in | 90 lbs. |
| 3600 | 8 ft | 18 ft | 8 in | 420 lbs. |
| 3602 | 5 ft | 12 ft | 8 in | 150 lbs. |
| 3604 | 10 ft | 30 ft | 8 in | 535 lbs. |
| 3614 | 8 ft | 18 ft | 8 in | 420 lbs. |
| 3615 | 8 ft | 24 ft | 8 in | 570 lbs. |
| 3616 | 10 ft | 36 ft | 8 in | 1020 lbs. |
| 3617 | 8 ft | 24 ft | 8 in | 570 lbs. |
| 3618 | 8 ft | 24 ft | 8 in | 570 lbs. |
| 3619 | 8 ft | 24 ft | 8 in | 270 lbs. |
| 3620 | 8 ft | 32 ft | 8 in | 760 lbs. |
| 3621 | 8 ft | 20 ft | 8 in | 585 lbs. |
| 3625 | 9 ft | 18 ft | 8 in | 460 lbs. |
| 3634 | 8 ft | 18 ft | 8 in | 420 lbs. |
| 3650 | 4 ft | 10 ft | 8 in | 130 lbs. |
| 3655 | 5 ft | 16 ft | 8 in | 250 lbs. |
| 3656 | 8 ft | 18 ft | 8 in | 420 lbs. |

## SCOREBOARD PART NUMBERS

| Nevco Model No. | Part Height [ft.] | Part Width [ft] | Part Depth [in] | Part Weight [lb] |
|---|---|---|---|---|
| 3657 | 10 ft | 32 ft | 8 in | 665 lbs. |
| 3658 | 5 ft | 16 ft | 8 in | 250 lbs. |
| 3680 | 8 ft | 18 ft | 8 in | 555 lbs. |
| 3682 | 8 ft | 20 ft | 8 in | 690 lbs. |
| 3685 | 8 ft | 24 ft | 8 in | 640 lbs. |
| 3688 | 8 ft | 32 ft | 8 in | 830 lbs. |
| 5625 | 8 ft | 12 ft | 8 in | 280 lbs. |
| 5632 | 4 ft | 18 ft | 8 in | 240 lbs. |
| 5633 | 2 ft | 18 ft | 8 in | 150 lbs. |
| 5634 | 6 ft | 18 ft | 8 in | 405 lbs. |
| 5635 | 8 ft | 18 ft | 8 in | 555 lbs. |
| 5642 | 3 ft | 24 ft | 8 in | 200 lbs. |
| 5643 | 5 ft | 24 ft | 8 in | 350 lbs. |
| 7604 | 10.5 ft | 18 ft | 8 in | 590 lbs. |
| 7605 | 10.5 ft | 24 ft | 8 in | 790 lbs. |
| 7614 | 10.5 ft | 18 ft | 8 in | 590 lbs. |
| 7615 | 10.5 ft | 24 ft | 8 in | 790 lbs. |
| 7616 | 10 ft | 36 ft | 8 in | 1220 lbs. |
| 7620 | 8 ft | 32 ft | 8 in | 820 lbs. |
| 7624 | 10.5 ft | 18 ft | 8 in | 590 lbs. |
| 7625 | 10.5 ft | 24 ft | 8 in | 790 lbs. |
| 7630 | 8 ft | 24 ft | 8 in | 650 lbs. |
| 7631 | 8 ft | 24 ft | 8 in | 650 lbs. |
| 7632 | 8 ft | 24 ft | 8 in | 650 lbs. |
| 7680 | 10.5 ft | 18 ft | 8 in | 610 lbs. |
| 7685 | 8 ft | 24 ft | 8 in | 670 lbs. |
| 7688 | 8 ft | 32 ft | 8 in | 930 lbs. |
| 9605 | 3 ft | 6 ft | 8 in | 60 lbs. |
| 9620 | 3.5 ft | 4 ft | 8 in | 45 lbs. |
| 9650 | 10 ft | 16 ft | 8 in | 430 lbs. |
| 9651 | 4 ft | 5 ft | 8 in | 60 lbs. |
| 9652 | 4 ft | 9 ft | 8 in | 110 lbs. |
| 9660 | 6 ft | 10 ft | 8 in | 235 lbs. |

## TRUSSES - HEIGHT AND WIDTH TO BE SPECIFIED BY USER

| Nevco Model No. | Part Height, h [ft.] | Part Width, w [ft] | Part Depth [in] | Part Weight [lbs/s.f.] | Part Weight [lbs] = Part Weight lb/s.f. x h x w |
|---|---|---|---|---|---|
| | _____ ft | _____ ft | 4 in | 2.5 lbs./s.f. | _____ lbs. |
| | _____ ft | _____ ft | 4 in | 2.5 lbs./s.f. | _____ lbs. |

## DELAY OF GAME PART NUMBERS

| Nevco Model No. | Part Height [ft.] | Part Width [ft] | Part Depth [in] | Part Weight [lb] |
|---|---|---|---|---|
| DGT | 4 ft | 4 ft | 8 in | 50 lbs. |
| DGT-T14 | 5 ft | 4 ft | 8 in | 60 lbs. |

## FIELD TIMER PART NUMBERS

| Nevco Model No. | Part Height [ft.] | Part Width [ft] | Part Depth [in] | Part Weight [lb] |
|---|---|---|---|---|
| FT-24 | 4 ft | 4 ft | 8 in | 55 lbs. |
| FT-30 | 4 ft | 4 ft | 8 in | 55 lbs. |
| FT-T14 | 5 ft | 4 ft | 8 in | 65 lbs. |

## PITCH COUNT PART NUMBERS

| Nevco Model No. | Part Height [ft.] | Part Width [ft] | Part Depth [in] | Part Weight [lb] |
|---|---|---|---|---|
| PCD-1 | 3 ft | 5 ft | 8 in | 50 lbs. |
| PCD-08-1 | 1.5 ft | 8 ft | 8 in | 50 lbs. |
| PCD-10-1 | 2 ft | 10 ft | 8 in | 80 lbs. |
| PCD-16-1 | 2 ft | 16 ft | 8 in | 130 lbs. |
| PCD-18-1 | 2 ft | 18 ft | 8 in | 150 lbs. |

## PITCH SPEED PART NUMBERS

| Nevco Model No. | Part Height [ft.] | Part Width [ft] | Part Depth [in] | Part Weight [lb] |
|---|---|---|---|---|
| PSD | 4 ft | 4 ft | 8 in | 50 lbs. |

## SOUND SYSTEM PART NUMBERS

| Nevco Model No. | Part Height [ft.] | Part Width [ft] | Part Depth [in] | Part Weight [lb] |
|---|---|---|---|---|
| SP-1000 | 4 ft | 9 ft | 43 in | 710 lbs. |
| SP-2000 | 4 ft | 19 ft | 43 in | 1420 lbs. |

## CUSTOM PART

| Nevco Model No. | Part Height [ft.] | Part Width [ft] | Part Depth [in] | Part Weight [lb] |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

## SIGNS - HEIGHT AND WIDTH TO BE SPECIFIED BY USER

| Nevco Model No. | Part Height, h [ft.] | Part Width, w [ft] | Part Depth [in] | Part Weight [lbs/s.f.] | Part Weight [lbs] = Part Weight lb/s.f. x h x w |
|---|---|---|---|---|---|
| | _____ ft | _____ ft | 8 in | 3.2 lbs./s.f. | _____ lbs. |
| | _____ ft | _____ ft | 8 in | 3.2 lbs./s.f. | _____ lbs. |

## ADO SIGN PART NUMBERS

| Nevco Model No. | Part Height [ft.] | Part Width [ft] | Part Depth [in] | Part Weight [lb] |
|---|---|---|---|---|
| ADO8-1 | 1 ft | 8 ft | 8 in | 18 lbs. |
| ADO6-2 | 2 ft | 6 ft | 8 in | 26 lbs. |
| ADO8-2 | 2 ft | 8 ft | 8 in | 35 lbs. |
| ADO10-2 | 2 ft | 10 ft | 8 in | 44 lbs. |
| ADO12-2 | 2 ft | 12 ft | 8 in | 53 lbs. |
| ADO14-2 | 2 ft | 14 ft | 8 in | 62 lbs. |
| ADO16-2 | 2 ft | 16 ft | 8 in | 70 lbs. |
| ADO18-2 | 2 ft | 18 ft | 8 in | 79 lbs. |
| ADO20-2 | 2 ft | 20 ft | 8 in | 88 lbs. |
| ADO22-2 | 2 ft | 22 ft | 8 in | 97 lbs. |
| ADO24-2 | 2 ft | 24 ft | 8 in | 106 lbs. |
| ADO28-2 | 2 ft | 28 ft | 8 in | 123 lbs. |
| ADO30-2 | 2 ft | 30 ft | 8 in | 132 lbs. |
| ADO32-2 | 2 ft | 32 ft | 8 in | 140 lbs. |
| ADO6-3 | 3 ft | 6 ft | 8 in | 40 lbs. |
| ADO8-3 | 3 ft | 8 ft | 8 in | 53 lbs. |
| ADO10-3 | 3 ft | 10 ft | 8 in | 66 lbs. |
| ADO12-3 | 3 ft | 12 ft | 8 in | 80 lbs. |
| ADO14-3 | 3 ft | 14 ft | 8 in | 93 lbs. |
| ADO16-3 | 3 ft | 16 ft | 8 in | 106 lbs. |
| ADO18-3 | 3 ft | 18 ft | 8 in | 120 lbs. |
| ADO20-3 | 3 ft | 20 ft | 8 in | 132 lbs. |
| ADO22-3 | 3 ft | 22 ft | 8 in | 146 lbs. |
| ADO24-3 | 3 ft | 24 ft | 8 in | 160 lbs. |
| ADO28-3 | 3 ft | 28 ft | 8 in | 185 lbs. |
| ADO30-3 | 3 ft | 30 ft | 8 in | 200 lbs. |
| ADO32-3 | 3 ft | 32 ft | 8 in | 212 lbs. |
| ADO36-3 | 3 ft | 36 ft | 8 in | 239 lbs. |

## MESSAGE CENTERS - HEIGHT AND WIDTH TO BE SPECIFIED BY USER

| Nevco Model No. | Part Height, h [ft.] | Part Width, w [ft] | Part Depth [in] | Part Weight [lbs/s.f.] | Part Weight [lbs] = Part Weight lb/s.f. x h x w |
|---|---|---|---|---|---|
| | _____ ft | _____ ft | 8 in | 8.5 lbs./s.f. | _____ lbs. |
| | _____ ft | _____ ft | 8 in | 8.5 lbs./s.f. | _____ lbs. |

## VIDEO BOARDS - HEIGHT AND WIDTH TO BE SPECIFIED BY USER

| Nevco Model No. | Part Height, h [ft.] | Part Width, w [ft] | Part Depth [in] | Part Weight [lbs/s.f.] | Part Weight [lbs] = Part Weight lb/s.f. x h x w |
|---|---|---|---|---|---|
| | _____ ft | _____ ft | 8 in | 9.5 lbs./s.f. | _____ lbs. |
| | _____ ft | _____ ft | 8 in | 9.5 lbs./s.f. | _____ lbs. |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

REGISTERED PROFESSIONAL ENGINEER
DANIEL E. [illegible]
No. 5405
STRUCTURAL
STATE OF CALIFORNIA

SEOR SEAL — DATE SIGNED 10.16.18



nevco
301 East Harris Avenue, Greenville, Illinois 62246
Phone: (618) 664-0360
www.nevco.com

PRE-CHECK (PC) DOCUMENT
CODE: 2016
A separate project application for construction is required.

DSA FILE NUMBER: PC-90
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02-116492
AC FLS SS
DATE: 10/16/18
DSA STAMP

EXAMPLE SCOREBOARD WORKSHEET & NEVCO PART NUMBERS

SHEET INFORMATION
DATE 10.16.18
DRAWN JMK / JMM
CHECKED JMM / MEP
SSG JOB # S17015
SHEET SB0.2

# STRUCTURAL NOTES

GENERAL NOTES

1. The following notes, typical details and schedules shall apply to all phases of this project unless otherwise shown or noted.
2. Specific notes and details shall take precedence over general notes and typical details.
3. All materials and workmanship shall conform to the minimum standards of the 2016 edition Title 24 of the California Building Code (CBC) and such other regulating agencies exercising authority over any portion of the work. The contractor shall have a current copy of the CBC on the job site.
4. The "Contract or Construction Documents" shall consist of these notes, details, schedules, plans, and drawings, as well as attached specifications.
5. All specifications, including but not limited to materials and products, shall be those put forth in the "Contract or Construction Documents". No substitutions shall be permitted to be used or assumed to be used in the bidding or construction process without written approval by the Structural Engineer of Record.
6. The contractor shall examine the "Contract or Construction Documents" and shall notify the Architect or Structural Engineer of Record of any discrepancies he may find before proceeding with the work.
7. All information on existing conditions shown on drawings are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall verify and be responsible for all dimensions and conditions at the site and shall notify the Architect or Structural Engineer of Record of any discrepancies between actual site conditions and information shown on or in the "Contract or Construction Documents" before proceeding with work.
8. The Contractor shall immediately notify the Architect or Structural Engineer of Record of any condition which in his opinion might endanger the stability of the structure or cause distress of the structure.
9. All work shall conform to the best practice prevailing in the various trades comprising work. The Contractor shall be responsible for coordinating the work of all trades.
10. These "Contract or Construction Documents" represent the finished structure, and do not indicate the method of construction. The Contractor shall supervise and direct the work and shall be solely responsible for construction means, methods, techniques, sequences and procedures.
11. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
    A. Labeling (as required or specified) shall be provided in accordance with CBC Section 1703A.5.
    B. Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703A.6.
12. The Contractor shall refer to the specifications for information not covered by these drawings and General Notes.
13. The Contractor shall provide temporary bracing and shoring for all structural members as required for structural stability of the structure during all phases of construction.
14. The Contractor shall take all steps necessary to ensure proper alignment of the structure after the installation of all structural and finish materials. This shall include any necessary preloading of the structure to determine final position of the completed work.
15. Observation visits to the project site by field representatives of Architect and/or Structural Engineer of Record (support services) shall not include inspections of safety or protective measures, nor construction procedures, techniques or methods. Any support services performed by Architect or Structural Engineer of Record during any phase of construction, shall be distinguished from continuous and detailed inspection services (as required by any regulating governmental agency, e.g. the Authority Having Jurisdiction) provided by others. these support services, whether of material or work, are performed solely for the purpose of assisting in quality control and in achieving conformance with contract documents, but do not guarantee Contractor's performance and shall not be construed as supervision of construction.
16. Provide openings and supports as required per typical details and notes for mechanical, plumbing, and electrical equipment, vents, ducts, piping, etc. All mechanical, plumbing and electrical equipment shall be properly "sway braced" against lateral forces.
17. These notes, details, drawings and specifications (Contract or Construction Documents) do not carry necessary provisions for construction safety. These documents and all phases of construction hereby contemplated are to be governed, at all times, by applicable provisions of the current California Occupational Safety and Health Act.
18. Where any conflict occurs between the requirements of federal, state and local laws, codes, ordinances, rules and regulations, the most stringent shall govern.
19. Written dimensions shall have precedence over scaled dimensions.
20. Drawings (notes, schedules, details and plans) shall have precedence over Structural Calculations.
21. In the event that certain features of the construction are not fully shown on the drawings or called for in the General Notes or Specifications, then their construction shall be of the same character as for similar conditions that are shown or called for.
22. ASTM designation and all standards refer to the latest amendments.
23. These structural "Contract or Construction Documents" shall not be modified without prior written approval of the Structural Engineer of Record.
24. Only structural working drawings approved by the Authority Having Jurisdiction are permitted to be used for construction on this project. All other drawings or documents are obsolete and are not permitted on the job site, nor shall they be used for any construction purposes. Contractors using unapproved drawings or documents are solely responsible for all work not performed in accordance with the "approved" drawings.
25. A Division of the State Architect certified project inspector employed by the District (Owner) and approved by the Division of the State Architect shall provide continuous inspection of the work. The duties of the inspector are defined in Section 4-342, Part 1, Title 24 California Code of Regulations.

FOUNDATION NOTES

1. Basis: See Structural Design Values Chart, Sheet SB0.1 Table B
2. Unexpected soil conditions: Allowable values and foundation design are based upon the minimum values provided in Table 1806A.2 of the 2016 California Building Code. See SB0.1 for values
3. Excavate to required depths and dimensions (as indicated in drawings), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower elevation and prevent disturbing of soils around higher elevation.
4. Footings shall be poured in neat excavations, without side forms whenever possible.
5. Carry all foundations to required depths into compacted fill or natural soil (as per Structural Plans and Details).
6. All foundation excavations shall be inspected and approved by the Inspector of Record or Geotechnical Engineer prior to forming and placement of reinforcing or concrete.
7. Foundations shall not be poured until all required reinforcing steel, sleeves, inserts, conduits, pipes, etc. and formwork is properly placed and inspected by the Authority having Jurisdiction.
8. The sides and bottoms of excavations which are to have concrete contact must be moistened several times just prior to pouring upon them.
9. De-water footings, as required, to maintain dry working conditions.

REINFORCING STEEL

1. All reinforcing steel shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 ($f_y$ = 60 ksi) unless noted otherwise.
   A. Grade 40 ($f_y$ = 40 ksi) may be used for #3 bars and smaller.
2. Reinforcing steel shall not be welded, unless specifically noted otherwise.
3. Welding of reinforcing steel (where specifically noted or detailed) shall conform to ACI 318-14, Section 26.6.4 and AWS D1.4. Welded rebar shall be low-alloy steel conforming to ASTM A706.
4. To hold reinforcing bars in their true position and prevent displacement, standard tie and anchorage devices must be provided. Placing of reinforcement shall conform to ACI 318-14 Section 26.6.2.
5. Shop drawings for fabrication of any reinforcing steel shall be approved by Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record, for their review, prior to fabrication.
6. Refer to typical details for minimum splice length and minimum radius of bend of reinforcing steel.
7. All reinforcing steel splices shall be staggered 24", unless specifically noted or detailed otherwise.
8. All reinforcing bar bends shall be made cold.
9. Fabrication, erection and placement of reinforcing steel shall conform to Concrete Reinforcing Steel Institute of Standard Practice.
10. All welded wire mesh shall conform to ASTM A185. Lap all wire mesh two modules.
11. Reinforcing steel shall be clean of rust, grease or other material likely to impair bond.
12. Epoxy-coated reinforcement (where specifically noted or detailed) shall conform to ASTM A775.

CONCRETE

1. All concrete shall have a minimum ultimate compressive strength ($f'_c$) as outlined below at 28 days. All concrete shall be regular weight (unless specifically noted otherwise).
   A. Concrete for footings: 4,500 psi w/c = 0.45 max. (see note 2)
2. For sites subject to soil with exposure class F0, S0, W0, C0, and C1 per ACI 138 19.3.1.1, the following design strength is permissible. The Geotechnical Engineer shall provide written verification of the soil exposure class. Provide exposure class in Table D on SB0.1
   A. Concrete for footings: 3,000 psi w/c = 0.45 max.
3. Maximum Fly Ash content shall be 15%, by weight, of total cementitious materials and shall conform to ASTM C618.
4. All concrete work shall comply with CBC Chapter 19A and ACI 318-14 and latest edition of ACI Manual of Concrete Practice.
5. Special Inspection (as required or specified) shall conform to CBC Chapter 17A.
6. Cement shall be portland cement Type V and shall conform to ASTM C150.
7. Aggregates shall conform to ASTM C33, provide aggregates from a single source.
8. Water shall conform to ASTM C94 and be potable.
9. All splices are to be Class B unless specifically noted otherwise.
10. Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
    A. Concrete cast against and permanently exposed to earth or weather: 3"
11. Reinforcing bars larger than #8 are not permitted unless specifically detailed or noted otherwise.
12. Location of all construction joints, other than specified, shall be approved by Architect/Structural Engineer of Record prior to pouring. Construction joints shall be thoroughly air and water cleaned and heavily roughened so as to expose coarse aggregates. All surfaces to receive concrete shall be maintained continuously wet at least three hours in advance of pouring.
13. All reinforcing steel, anchor bolts, dowels, inserts and any other hardware to be set in concrete shall be well secured in position prior to pouring of concrete.
14. Vibrate all concrete as it is placed, with a mechanical vibrator operated by experienced personnel. The vibrator shall be used to consolidate the concrete, not transport it. Reinforcing and forms shall not be vibrated.
15. Formwork design and removal shall conform to ACI 318-14 Section 26.11. Remove forms in accordance with the following minimum schedule:
    A. Side faces of footings: Minimum 48 hours
    B. Column and pier forms: 72 hours & 70% of design strength
16. Concrete shall not free fall more than six feet. Use tremie, pump or other approved methods.
17. Concrete shall be maintained in a moist condition for a minimum of 5 days after placement.
18. The Contractor may use concrete admixtures as a construction means and methods to execute "Contract or Construction Documents". Use of admixture is solely the responsibility of the Contractor.
19. Mix designs shall be prepared by an approved testing laboratory, signed by a licensed engineer and shall be submitted to the Project Specific Structural Engineer of Record for approval.
20. Only one grade of concrete shall be allowed on project site at any one time
21. Concrete strength shall be verified by standard cylinder tests (in accordance with CBC Section 1905A.1.16) made by an approved testing laboratory.
22. Concrete placed when the air temperature has fallen to, or is expected to fall below 40° shall conform to ACI 318-14 Section 26.5.4, and ACI 306R-16.
23. Concrete placed during hot weather shall conform to ACI 318-14 Section 26.5.5, and ACI 305R-14.
24. Conduits and sleeves placed within structural concrete shall not be tied directly to structural reinforcement.
    A. 1" concrete cover shall be maintained around all reinforcement.
25. No stakes shall be permitted within the footing section.

DRILLED CAISSON/PIER AND GRADE BEAM NOTES

1. Excavations for drilled caissons/pier shall be performed in compliance with local grading codes and ordinances as well as CBC Chapters 18A and 33A.
2. Provide Special Inspection in accordance with CBC Section 1705A.8 and Table 1705A.8.
3. Excavations for all drilled caissons/piers shall be approved by the Project Geotechnical Engineer prior to placing of concrete.
4. Reinforcement for drilled caissons/pier shall be approved by the Structural Engineer of Record prior to placing in caisson/pier excavation.
5. De-water caisson/pier footings and building excavation as required to maintain dry working conditions.
6. Caisson/piers are to be poured by end of day after completion of drilling operation. All concrete for a particular caisson/pier shall be on the job site prior to drilling the pile hole.
7. The Contractor shall be responsible for all shoring, bracing, etc. necessary to support cut and/or fill banks, and existing structures during excavation, and the forming and placement of concrete.
8. Bottom of caissons/piers shall be thoroughly cleaned prior to placement of concrete.
9. Grade beam reinforcement:
   A. Stagger splices in horizontal reinforcement.
   B. Locate splices between the ¼ and ½ spans (between caisson/piers) of grade beams, unless noted otherwise.

STRUCTURAL STEEL AND WELDING

1. All structural steel construction shall conform to AISC 360-10 and AISC 341-10.
   A. Fabrication of all structural steel shall be done in the shop of an approved fabricator. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
2. All structural steel shall conform to the following specifications:
   A. Angles, channels, plates, bars, rounds, and other miscellaneous shapes: Shall conform to ASTM A36 and shall have a minimum yield stress ($F_y$) of 36 ksi.
   B. Wide-flange shapes: Shall conform to ASTM A992 and shall have a minimum yield stress ($F_y$) of 50 ksi.
   C. Structural tubes: Shall be ASTM A500, Grade B, and shall have a min. yield stress ($F_y$) of 46 ksi.
3. All structural steel fasteners shall conform to the following specifications:
   A. Bolts shall conform to ASTM A307
   B. Anchor Bolts shall conform to ASTM F1554, Grade as noted in drawings
   C. Carbon steel nuts shall conform to ASTM A563
   D. Stainless steel nuts shall conform to ASTM F594
   E. Washers shall conform to ASTM F436
4. Special Inspection shall be provided for all structural steel and welding, in accordance with CBC Chapter 17A.
5. All structural steel shall be fabricated, erected and welded in accordance with AISC Specifications for Structural Steel Buildings (AISC 360-10) and Code of Standard Practice for Steel Buildings and Bridges (AISC 303-10).
6. All welding shall be done by qualified and certified welders.
7. No field welding permitted, unless specifically noted otherwise.
8. Shop drawings for the fabrication of any structural steel shall be approved by the Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record for their review, prior to fabrication.
9. No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.
10. All welding shall conform to 'AWS D1.1' specifications for welding. (E-70XX Electrodes).
11. Where fillet weld size is not indicated, use 'AWS' minimum size based on the thickness of the thinner part being welded, as specified in AISC Specifications for Structural Steel Buildings (AISC 360-10), Section J2.2.
12. All butt welds to be complete joint penetration, unless specifically noted otherwise.
13. Welder qualification requirements, welding procedure and welding electrodes for all structural steel (except structural sheet steel, see steel decking) shall conform to CBC Sections 1705A.2.1 and 2204A.1.
14. Provide 3" minimum concrete cover around all structural steel below grade.
15. Structural steel embedded into concrete shall be uncoated.
16. Structural steel shall be hot-dip galvanized (minimum ASTM A123 or A153 Class D) or painted with zinc-rich primer, undercoat, and finish coat; or equivalent paint system.
17. All exposed steel fasteners, including cast-in-place anchor bolts/rods, shall be stainless steel (Type 304 minimum), hot-dip galvanized (ASTM A153, Class D minimum or ASTM F2329), or protected with corrosion-preventive coating that demonstrated no more than 2% of red rust in minimum 1,000 hours of exposure in salt spray test per ASTM B117. Zinc plated fasteners do not comply with this requirement.

# ABBREVIATIONS

| | | | |
|---|---|---|---|
| A.B. | Anchor Bolt | | |
| ABV. | Above | HORIZ. | Horizontal |
| ACI | American Concrete Institute | HSS | Hollow Steel Section |
| ADJ. | Adjacent | HT. | Height |
| AHJ | Authority Having Jurisdiction | | |
| AISC | American Institute of Steel Construction | ICC | International Building Code |
| | | ICC | International Code Council |
| AOR | Architect of Record | ID | Inside Diameter |
| APPROX. | Approximate(ly) | IN. | Inch, Inches |
| ASCE | American Society of Civil Engineers | INT. | Interior |
| ARCH. | Architect, Architecture | ksi | Kips per Square Inch |
| ASTM | American Society of Testing and Materials | LL | Live Load |
| ATR | All Thread Rod | | |
| AWS | American Welding Society | MAX. | Maximum |
| | | MB | Machine Bolt |
| B.O. | Bottom of _____ | MFR. | Manufactured, Manufacturer |
| BOT. | Bottom | MIN. | Minimum |
| b/t | Between | MPH | Miles per Hour |
| CAC | California Administrative Code | N/R | Not Required |
| CBC | California Building Code | N.T.S. | Not to Scale |
| CIP | Cast-in-place | | |
| CJP | Complete Joint Penetration | o.c. | On Center |
| ℄ | Centerline | o/ | Over |
| CLR. | Clear | OD | Outside Diameter |
| COL. | Column | | |
| CONC. | Concrete | PEN. | Penetration |
| CONN. | Connection | PL. | Plate |
| CONST. | Construction | PJP | Partial Joint Penetration |
| CONT. | Continue, Continuous | psi | Pounds per Square Inch |
| | | PSF | Pounds per Square Foot |
| ∅ | Diameter | | |
| DBL. | Double | REBAR | Reinforcing Bar |
| DET. | Detail | REINF. | Reinforcement |
| DL | Dead Load | REQ'D | Required |
| DSA | Division of State Architect | | |
| DWGS. | Drawings | S.F. | Square Feet |
| | | SHT. | Sheet |
| EA. | Each | SIM. | Similar |
| E.F. | Each Face | SMS | Sheet Metal Screw |
| ELEC. | Electric, Electrical | SQ. | Square |
| ELEV. | Elevation | STAGG'D | Staggered |
| EMBED. | Embedded, Embedment | STD. | Standard |
| EOR | Engineer of Record | STL. | Steel |
| EQ. | Equal | SEOR | Structural Engineer of Record |
| EQUIP. | Equipment | | |
| E.S. | Each Side | T&B | Top and bottom |
| E.W. | Each Way | THR'D | Threaded |
| EXT. | Exterior | T.O. | Top of _____ |
| | | TYP. | Typical |
| FAB. | Fabricated | | |
| FDN. | Foundation | U.N.O. | Unless Noted Otherwise |
| F.G. | Finish Grade | | |
| F.O. | Face of _____ | VERT. | Vertical |
| FRMG. | Framing | VIF | Verify in Field |
| FT. | Foot,Feet | | |
| FTG. | Footing | w/ | With |
| | | w/c | Water/Cement Ratio |
| GA. | Gauge | WSS | Welded Steel Stud |
| GALV. | Galvanized | WT. | Weight |
| GEOR | Geotechnical Engineer of Record | | |

# SPECIAL INSPECTION

GENERAL NOTES

1. All Special Inspection shall be provided in accordance with CBC Section 1704A and 1705A.
2. Where Special Inspection is required, all inspection or testing shall be provided by an approved Special Inspection Agency in accordance with CBC Section 1702A.1, 1703A.1 and 1704A.1.
3. A Division of the State Architect accepted testing laboratory directly employed by the District (Owner) shall conduct all the required tests and inspections for the project.
4. Special Inspectors shall keep records of inspections. The Special Inspector shall furnish inspection reports to the Division of the State Architect, and to the Architect or Engineer of Record. Reports shall indicate that work inspected was done in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Division of the State Architect and to the Architect or Engineer of Record prior to the completion of that phase of work. A final report documenting required Special Inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the Division of the State Architect prior to the start of work.
5. Special Inspectors shall be approved by the Division of the State Architect in accordance with CBC Section 1704A.2.1 and CAC Section 4-335(f)

CAST-IN-PLACE DEEP FOUNDATIONS[a]

| Verification and Inspection | Continuous | Periodic |
|---|---|---|
| 1. Inspect drilling operations and maintain complete and accurate records for each element. | ✓ | |
| 2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes. | ✓ | |
| 3. For concrete elements, perform additional inspections and see Concrete Construction chart, this sheet, in accordance with CBC Section 1705A.3. | | |

Notes: Cast-in-place Deep Foundations
a. CBC Section 1705A.8 and Table 1705A.8

CONCRETE CONSTRUCTION[b]

| Verification and Inspection | Continuous | Periodic |
|---|---|---|
| 1. Inspection of reinforcing steel including prestressing tendons, and placement.[c] | | ✓ |
| 2. Inspection of reinforcing steel welding in accordance with Table 1705A.2.2. item 5b.[d] | | ✓ |
| 3. Inspection of anchors cast in concrete.[e] | | ✓ |
| 4. Verifying use of required design mix.[g] | | ✓ |
| 5. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.[h] | ✓ | |
| 6. Inspection of concrete placement for proper application techniques.[i] | ✓ | |
| 7. Inspection for maintenance of specified curing temperature and techniques.[j] | | ✓ |
| 8. Inspect formwork for shape, location and dimensions of the concrete member being formed.[k] | | ✓ |
| 9. Batch Plant Inspection.[q] | ✓ | |

Notes: Concrete Construction
a. Where applicable, see also CBC Section 1705A.12, Special Inspections for seismic resistance
b. Specific requirements for Special Inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 318-14 Section 17.8.2 or other requirements. Where specific requirements are not provided, Special Inspection requirements shall be specified by the Registered Design Professional and shall be approved by the Building Official prior to the commencement of the work.
c. ACI 318: Ch. 20, 25.2, 25.3, 26.5-1-26.5.3, CBC: 1908.4
d. AWS D1.4, ACI 318: 26.5.4
e. ACI 318: 17.8.2
f. ACI 318: 17.8.2.4, 17.8.2
g. ACI 318: Ch. 19, 26.4.3, 26.4.4, CBC: 1904.1, 1904.2
h. ASTM C172, ASTM C31, ACI 318: 26.4.5, 26.12, CBC: 1908.10, 1908.2, 1908.3
i. ACI 318: 26.4.5, CBC: 1908.6, 1908.7, 1908.8
j. ACI 318: 26.4.7-26.4.9, CBC: 1908.9
k. ACI 318: 26.9.2.1, 26.9.2.3
l. ACI 318: Ch. 26.8
m. ACI 318: 26.10.2
n. ACI 318: 26.10.1 (b)
o. CBC Section 1705A.3 and Table 1705A.3
p. See Special Cases Special Inspection for more requirements
q. Continuous batch plant inspection may be waived by the Authority Having Jurisdiction, subject to the enforcement agency under the following condition: The concrete plant complies fully with the requirements of ASTM C94, Sections 9 and 10, and has a current certificate from the National Ready Mixed Concrete Association or another agency acceptable to the enforcement agency. The certification shall indicate that the plan has automatic batching and recording capabilities
When continuous batch plant inspection is waived, the following requirements shall apply :
1. An approved agency shall check the first batch at the start of the day to verify materials and proportions conform to the approved mix design.
2. A licensed weighmaster shall positively identify quantity of materials and certify each load by a batch ticket.
3. Batch tickets, including material quantities and weights shall accompany the load shall be transmitted to the inspector of record by the truck driver with load identified thereon. The load shall not be placed without a batch ticket identifying the mix. The inspector of record shall keep a daily record of placements, identifying each truck, its load, and time of receipt at the jobsite, and approximate location of deposit in the structure and shall maintain a copy of the daily record as required by enforcement agency.

STEEL CONSTRUCTION[ab]

| Verification and Inspection | Continuous | Periodic |
|---|---|---|
| Required verification and inspection of steel construction | | |
| 1. Material verification of structural steel, cold-formed steel deck, high-strength bolts, nuts and washers: | | |
| a. For structural steel, identification markings to conform to AISC 360, or ASTM Standards Specified in approved Construction Documents. Manufacturer's certificate of compliance required. | | ✓ |
| 2. Material verification of structural steel: | | |
| a. Identification markings to conform to ASTM standards specified in the approved construction documents. | | ✓ |
| b. Manufacturer's certified test reports. | | ✓ |
| 3. Material verification of weld filler materials: | | |
| a. Identification markings to conform to AWS specification in the approved Construction Documents | | ✓ |
| b. Manufacturer's certificate of compliance required | | ✓ |
| 4. Inspection of welding: | | |
| a. Structural steel and cold formed steel deck: | | |
| 1) Complete and partial joint penetration groove welds | ✓ | |
| 2) Multi-pass fillet welds | ✓ | |
| 3) Single-pass fillet welds > 5/16" | ✓ | |
| 5) Single-pass fillet welds < 5/16" | | ✓ |
| 5. Inspection of steel frame joint details for compliance: | | |
| a. Details such as bracing and stiffening | | ✓ |
| b. Member locations | | ✓ |
| c. Application of joint details at each connection | | ✓ |
| Inspection tasks prior to welding | | |
| 1. Welding procedure specifications (WSPs) available | ✓ | |
| 2. Manufacturer certifications for welding consumables available | ✓ | |
| 3. Material identification (type/grade) | | ✓ |
| 4. Welder identification system[e] | | ✓ |
| 5. Fit-up of groove welds (including joint geometry) Joint preparation, dimensions, cleanliness, tacking, backing type and fit | | ✓ |
| 6. Configuration and finish of access holes | | ✓ |
| 7. Fit-up of fillet welds Dimensions, cleanliness, tacking | | ✓ |
| 8. Check welding equipment | | |
| Inspection tasks during welding | | |
| 1. Use of qualified welders | | ✓ |
| 2. Control and handling of welding consumables Packaging, exposure control | | ✓ |
| 3. No welding over cracked tack welds | | ✓ |
| 4. Environmental conditions Wind speed within limits, precipitation and temperature | | ✓ |
| 5. WPS followed Settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained min./max.),proper position (F, V, H, OH) | | ✓ |
| 6. Welding techniques Interpass and final cleaning, each pass within profile limitations | | ✓ |
| Inspection tasks after welding | | |
| 1. Welds cleaned | | ✓ |
| 2. Size, length and location of welds | ✓ | |
| 3. Welds meet visual acceptance criteria Crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity | ✓ | |
| 4. Arc strikes | ✓ | |
| 5. k-Area[f] | ✓ | |
| 6. Backing removed and weld tabs removed (if required) | ✓ | |
| 7. Repair activies | ✓ | |
| 8 Document acceptance or rejection of welded joint or member | ✓ | |

STEEL CONSTRUCTION, CONTINUED

| Verification and Inspection | Continuous | Periodic |
|---|---|---|
| Inspection tasks prior to bolting[g] | | |
| 1. Manufacturer's certifications available for fastener materials | ✓ | |
| 2. Fasteners marked in accordance with ASTM requirements | | ✓ |
| 3. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane) | | ✓ |
| 4. Proper bolting procedure selected for joint detail | | ✓ |
| 5. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements | | ✓ |
| 6. Pre-installation certification testing by installation personnel observed and documented for fastener assemblies and methods used | | ✓ |
| 7. Proper storage provided for bolts, nuts, washer and other fastener components | | ✓ |
| Inspection tasks during bolting | | |
| 1. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required | | ✓ |
| 2. Joint brought to the snug-tight condition prior to the pretensioning operation | | ✓ |
| 3. Fastener component not turned by the wrench prevented from rotating | | ✓ |
| 4. Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges, see Minimum Bolt Pretension table below | | ✓ |
| Inspection tasks after bolting | | |
| 1. Document acceptance or rejection of bolted connections | ✓ | |

Notes: Steel Construction
a. CBC Section 1705A.2 and Table 1705A.2.2
b. CBC Section 1707A.11.1
c. AWS D1.3
d. AWS D1.4, ACI 318: Section 3.5.2
e. The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.
f. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 inches of the weld
g. All methods of installation for high strength bolts shall require verification of pre-tension by a Skidmore-Welhelm calibrator for each batch or source of bolts used (see minimum pre-tension chart below).

Minimum Bolt Pretension (kips)

| Bolt size , inches | Group A (A325, etc.) | Group B (A490, etc.) |
|---|---|---|
| ½" Diameter | 12 | 15 |
| ⅝" Diameter | 19 | 24 |
| ¾" Diameter | 28 | 35 |
| ⅞" Diameter | 39 | 49 |
| 1" Diameter | 51 | 64 |
| 1⅛" Diameter | 56 | 80 |
| 1¼" Diameter | 71 | 102 |
| 1⅜" Diameter | 85 | 121 |
| 1½" Diameter | 103 | 148 |



nevco
301 East Harris Avenue, Greenville, Illinois 62246
Phone: (618) 664-0360
www.nevco.com

PRE-CHECK (PC) DOCUMENT
CODE: 2016
A separate project application for construction is required.

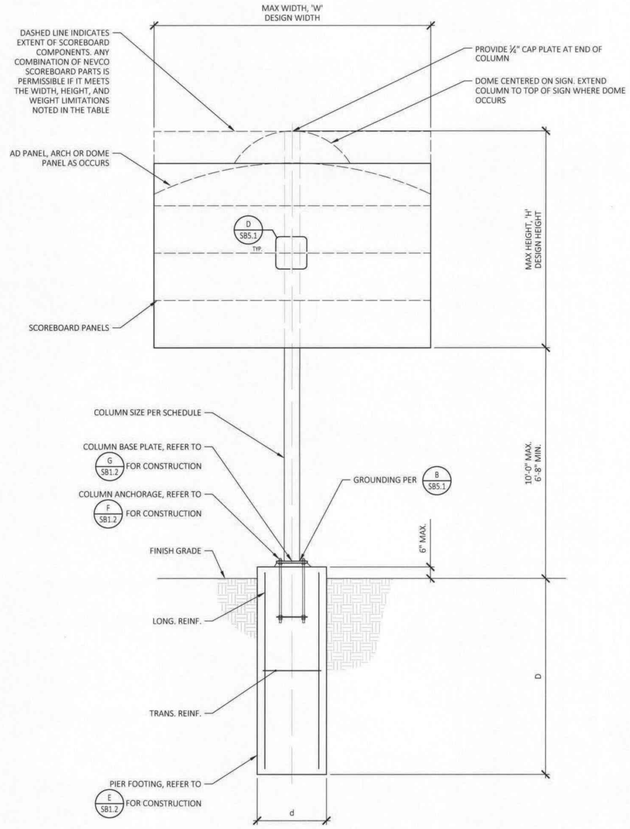
DSA FILE NUMBER: PC-90
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02-118492
AC LS SS SI
DATE: 10/16/18
DSA STAMP

STRUCTURAL NOTES & SPECIAL INSPECTIONS

SHEET INFORMATION
DATE: 10.16.18
DRAWN: JMK / JMM
CHECKED: JMM / MEP
SSG JOB #: S17015
SHEET: SB0.3

| ONE COLUMN ASSEMBLY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ASSEMBLY CRITERIA | | | | | PIER FOOTING CRITERIA | | | |
| ASSEMBLY WIDTH, W | CHECK OPTION THIS APPLICATION | MAX. WEIGHT | ASSEMBLY HEIGHT, H | COLUMN SIZE | PIER DIAMETER, d | DEPTH, D | LONG. REINF. | TRANS. REINF. (1) |
| 8'-0" | | 570 lbs. | ≤ 4'-0" | HSS8x8x⅜ | 30"Ø | 6'-6" | 8 - #6 | #4 @ 4½" o.c. |
| 10'-0" | | 1,535 lbs. | ≤ 8'-0" | HSS8x8x⅜ | 30"Ø | 9'-0" | 8 - #6 | #4 @ 4½"o.c. |

NOTES:
1. CONTRACTOR OPTION TO PROVIDE SPIRAL REINFORCING IN LIEU OF TIES. SPIRAL PITCH SHALL MATCH TIE SPACING.
2. CONTRACTOR IS RESPONSIBLE FOR CASING PIERS AND DRILLING SEQUENCING TO PROTECT PIER EXCAVATION



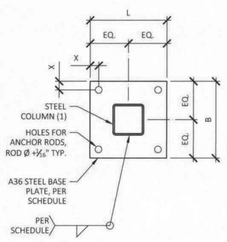

ELEVATION

## ONE COLUMN SCOREBOARD INSTALLATION

N.T.S.

A

| BASE PLATE SCHEDULE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| COLUMN SIZE | BASE PLATE | | | | ANCHOR ROD | | | | |
| | THICKNESS, t | WIDTH, B | LENGTH, L | WELD | QUANTITY & DIAMETER | GRADE | EDGE DISTANCE, X | GROUT HEIGHT | EMBED. |
| HSS8x8x⅜ | 1" | 16" | 16" | ⅜" FILLET | 4-1⅜"Ø | F1554 - Gr.36 | 2½" | 1½" | 48" |

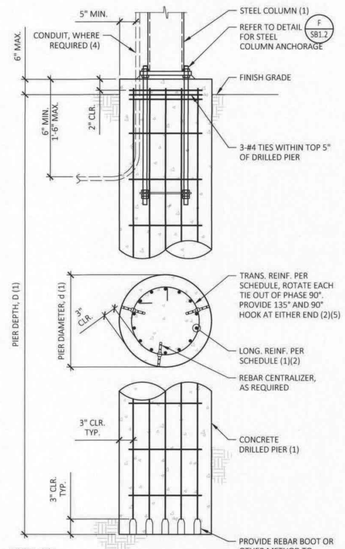



NOTES: (#)
1. SEE SCOREBOARD ELEVATION, A/SB1.2

## BASE PLATE

N.T.S.

G

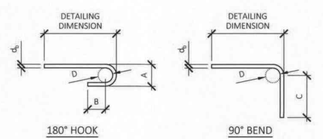



NOTES: (#)
1. SEE ELECTRONIC SIGN ELEVATION, A/SB1.2
2. SEE DETAILS C/SB1.2 & D/SB1.2 FOR REINFORCEMENT BEND & TIE REQUIREMENTS
3. SPLICE REINFORCEMENT PER B/SB1.2 AS REQUIRED. ALL SPLICES ARE TO BE CLASS B.
4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE, VERIFY ACTUAL CONDITIONS IN FIELD. (2)-2" NOMINAL CONDUIT MAX. SPACE CONDUIT 6"o.c. MIN.
5. TIE SHALL OVERLAP ITSELF A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS

## CONCRETE DRILLED PIER

N.T.S.

E




180° HOOK

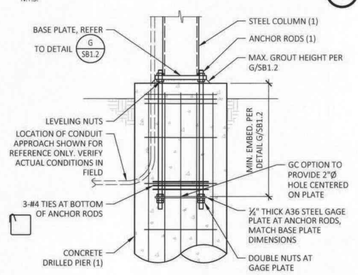
90° BEND

| Bar Size | Dimension of Standard Hooks and Bends | | | |
|---|---|---|---|---|
| | D | A | B ($4d_b$) [2½" min.] | C ($12d_b$) |
| #3 | 2½"Ø | 3" | 2½" | 4½" |
| #4 | 3"Ø | 4" | 2½" | 6" |
| #5 | 3½"Ø | 5" | 2½" | 7½" |
| #6 | 4½"Ø | 6" | 3" | 9" |
| #7 | 5½"Ø | 7" | 3½" | 10½" |
| #8 | 6"Ø | 8" | 4" | 12" |
| #9 | 9"Ø | 11¼" | 4½" | 13½" |
| #10 | 10"Ø | 12½" | 5" | 15" |

## REBAR HOOKS & BENDS

N.T.S.

C

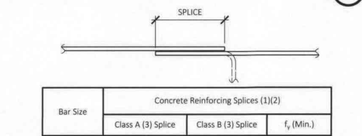



NOTES: (#)
1. SEE SCOREBOARD ELEVATION, A/SB1.2

## STEEL COLUMN ANCHORAGE

N.T.S.

F



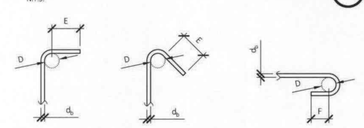

| Bar Size | Concrete Reinforcing Splices (1)(2) | | |
|---|---|---|---|
| | Class A (3) Splice | Class B (3) Splice | $f_y$ (Min.) |
| #3 | 16" | 21" | 40 ksi |
| #4 | 21" | 27" | 60 ksi |
| #5 | 40" | 51" | 60 ksi |
| #6 | 47" | 61" | 60 ksi |
| #7 | 55" | 71" | 60 ksi |
| #8 | 64" | 82" | 60 ksi |
| #9 | 71" | 92" | 60 ksi |
| #10 | 80" | 103" | 60 ksi |

NOTES: (#)
1. LAP LENGTHS LISTED APPLY TO VERTICAL REINFORCEMENT
2. WHERE BARS OF A DIFFERENT SIZE ARE LAPPED, THE LAP LENGTH SHALL BE THE LENGTH REQUIRED BY THE LARGER BAR
3. ALL SPLICES SHALL BE CONSIDERED CLASS B UNLESS SPECIFICALLY NOTED OTHERWISE

## TYPICAL LAP SPLICES

N.T.S.

B




90° BEND

135° BEND

180° BEND

| Bar Size | Dimension of Standard Bends | | |
|---|---|---|---|
| | D | E | F ($6d_b$) [3" min.] |
| #3 | 1½"Ø | 3" | 3" |
| #4 | 2"Ø | 3" | 3" |
| #5 | 2½"Ø | 3¼" | 3¼" |

## TIE AND STIRRUP BENDS

N.T.S.

D

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. YASOLINI
No. 5405
STRUCTURAL
STATE OF CALIFORNIA

SEOR SEAL

DATE SIGNED: 10.16.18



nevco
301 East Harris Avenue, Greenville, Illinois 62246
Phone: (618) 664-0360
www.nevco.com

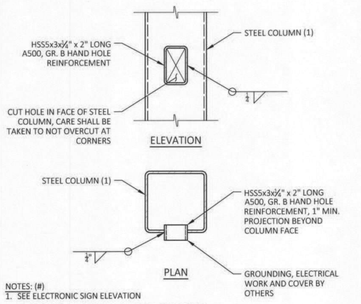
PRE-CHECK (PC) DOCUMENT
CODE: 2016
A Separate project application for construction is required.

DSA FILE NUMBER: PC-90
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02-118492
AC: FLS: SS:
DATE: 10/16/18
DSA STAMP

MARQUEE CAISSON - BOLTED

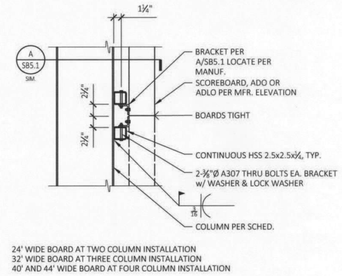
SHEET INFORMATION

| | |
|---|---|
| DATE | 10.16.18 |
| DRAWN | JMK / JMM |
| CHECKED | JMM / MEP |
| SSG JOB # | S17015 |
| SHEET | SB1.2 |




## CONDUIT HAND HOLE

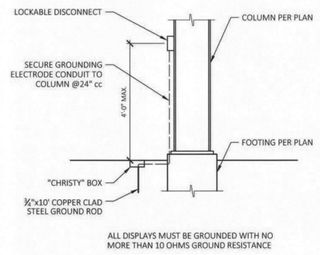
N.T.S. (H)




24' WIDE BOARD AT TWO COLUMN INSTALLATION
32' WIDE BOARD AT THREE COLUMN INSTALLATION
40' AND 44' WIDE BOARD AT FOUR COLUMN INSTALLATION

## ALT. BOARD ATTACHMENT

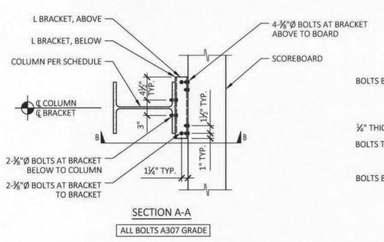
N.T.S. (C)

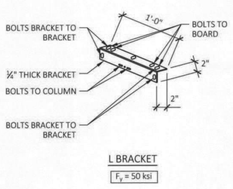


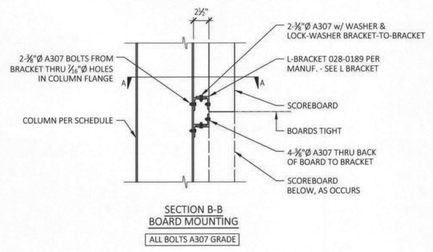

ALL DISPLAYS MUST BE GROUNDED WITH NO MORE THAN 10 OHMS GROUND RESISTANCE

## GROUNDING DETAIL

N.T.S. (B)

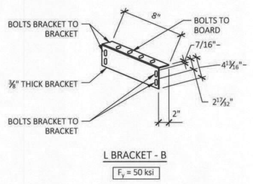


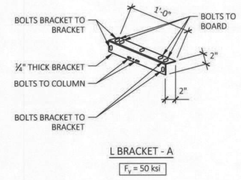



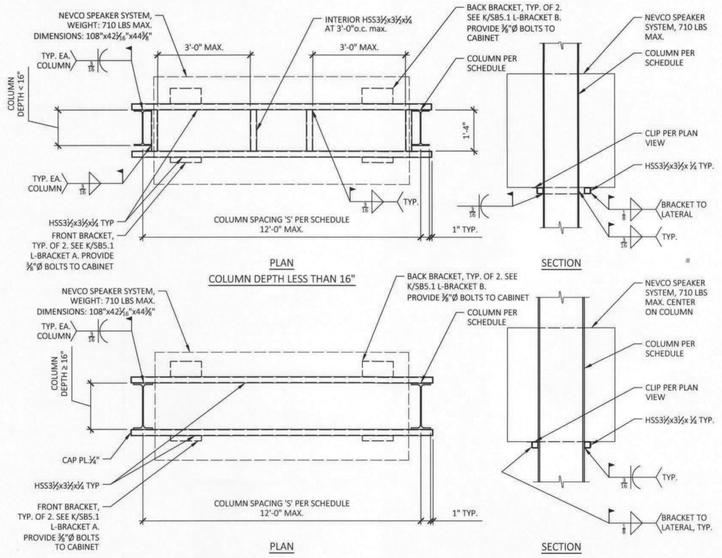



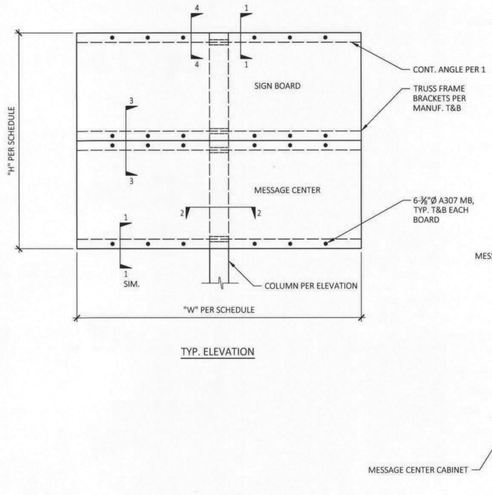

## SCOREBOARD, ADO AND ADLO ATTACHMENTS

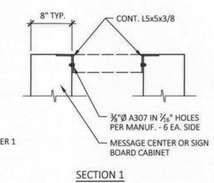
N.T.S. (A)

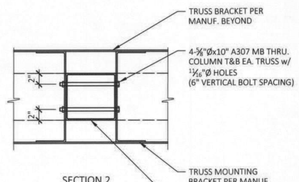


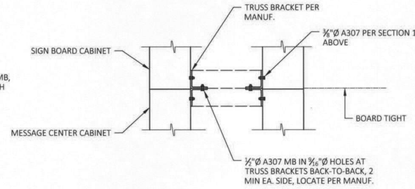



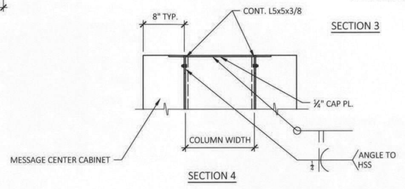



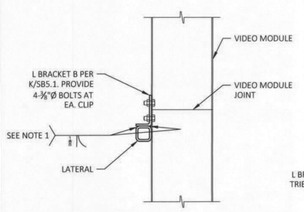




## L BRACKETS

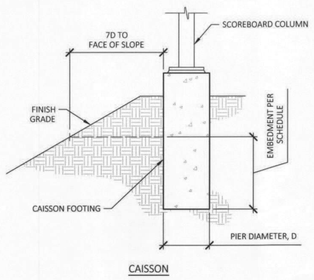
N.T.S. (K)




NOTES:
1. PROVIDE FILLET WEld WHERE LATERAL WIDTH EXCEEDS BRACKET WIDTH

## VIDEO BRACKET ATTACHMENT

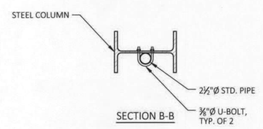
N.T.S. (J)




## DISTANCE TO SLOPE

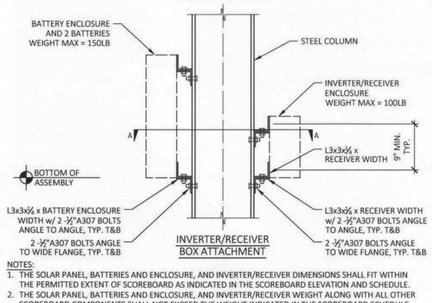
N.T.S. (L)



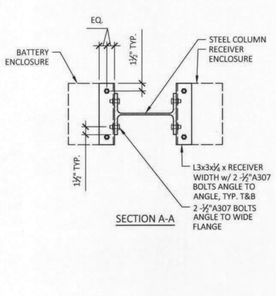




## SPEAKER ATTACHMENT

N.T.S. (F)




NOTES:
1. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER DIMENSIONS SHALL FIT WITHIN THE PERMITTED EXTENT OF SCOREBOARD AS INDICATED IN THE SCOREBOARD ELEVATION AND SCHEDULE.
2. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER WEIGHT ALONG WITH ALL OTHER SCOREBOARD COMPONENTS SHALL NOT EXCEED THE WEIGHT INDICATED IN THE SCOREBOARD SCHEDULE.

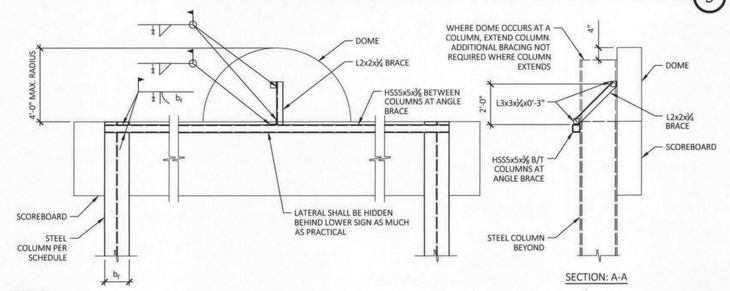



## SOLAR PANEL/BATTERY/ INVERTER/RECEIVER ATTACHMENT

N.T.S. (G)

## SIGN/MESSAGE CENTER INSTALLATION

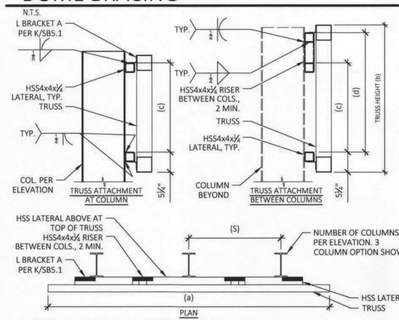
N.T.S. (D)




NOTES: (#)
1. SEE SCOREBOARD ELEVATION AND NOTES

## DOME BRACING

N.T.S. (E)




## TRUSS ATTACHMENT

N.T.S. (M)

### TRUSS ATTACHMENT CHART

| TRUSS WIDTH (a) | TRUSS HEIGHT (b) | LATERAL HEIGHT (c) | LATERAL HEIGHT (d) | COLUMN SPACING (S) | ESTIMATED WEIGHT | NUMBER OF COLUMNS |
|---|---|---|---|---|---|---|
| 18'-0" | 3'-0" | 28 15/16" | 31 3/16" | 10'-0" | 145 lbs. | 2 |
| 16'-0" | 3'-8 3/4" | 34 1/2" | 36 1/16" | 8'-0" | 136 lbs. | 2 |
| 18'-0" | 4'-0" | 38 3/16" | 40 7/16" | 10'-0" | 165 lbs. | 2 |
| 12'-0" | 2'-6" | 18 11/16" | 20 7/16" | 8'-0" | 90 lbs. | 2 |
| 10'-0" | 2'-6" | 18 3/4" | 20 3/4" | 8'-0" | 64 lbs. | 2 |
| 8'-0" | 2'-6" | 18 3/4" | 20 3/4" | 6'-0" | 58 lbs. | 2 |
| 14'-0" | 2'-0" | 18 3/4" | 20 3/4" | 8'-0" | 78 lbs. | 2 |
| 28'-0" | 4'-0" | 30 13/16" | 42 1/16" | 10'-0" | 257 lbs. | 3 |
| 24'-0" | 4'-0" | 27 1/2" | 42 3/16" | 8'-0" | 220 lbs. | 3 |
| 24'-0" | 3'-0" | 19 15/16" | 30 15/16" | 8'-0" | 185 lbs. | 3 |
| 20'-0" | 4'-0" | 25 7/8" | 44 1/4" | 9'-0" | 110 lbs. | 3 |
| 32'-0" | 4'-0" | 24 11/16" | 41 1/16" | 8'-0" | 294 lbs. | 4 |
| 36'-0" | 4'-0" | 15 1/2" | 39 9/16" | 10'-0" | 331 lbs. | 4 |
| 40'-0" | 4'-0" | 28 1/4" | 41 1/2" | 10'-0" | 367 lbs. | 4 |

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Phone: (618) 664-0360
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

REGISTERED PROFESSIONAL ENGINEER
JOSEPH E. TANCLAN
No. 5405
STRUCTURAL
STATE OF CALIFORNIA
SEOR SEAL
DATE SIGNED: 10.16.18



PRE-CHECK (PC) DOCUMENT
CODE: 2016
A separate project application for construction is required.

DSA FILE NUMBER: PC-90
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02-116492
AC FLS SS
DATE: 10/16/18
DSA STAMP

ATTACHMENT DETAILS

SHEET INFORMATION
DATE: 10.16.18
DRAWN: JMK / JMM
CHECKED: JMM / MEP
SSG JOB #: S17015
SHEET: SB5.1

# ENVIROPLEX, INC.

# STEEL ORDINARY MOMENT RESISTING FRAME MODULAR BUILDING

## 24'x40' ~~TO 120'x40'~~ ( 960 S.F.)

SN: 23844 - 23845

## TEST & INSPECTION GUIDELINE

TYPE OF MODULAR STEEL MOMENT FRAME BUILDING PROJECT
( X=INDICATES TEST OR INSPECTION TO BE DONE)

| TEST and INSPECTIONS (as listed on Form DSA-103) MATERIAL TYPE | | CBC 1033.3 ITEM # | DESCRIPTION | STOCKPILE: WOOD FLOOR ONLY | STOCKPILE: CONCRETE FLOORS | CONSTRUCTION OF (diaphragm material–foundation material): PLYWOOD FLOOR ONLY - WOOD FOUNDATION | CONSTRUCTION OF: PLYWOOD FLOOR - CONCRETE FOUNDATION | CONSTRUCTION OF: CONCRETE FLOOR - CONCRETE FOUNDATION | RELOCATION OF CERTIFIED BUILDING: WOOD FOUNDATION | RELOCATION OF CERTIFIED BUILDING: CONCRETE FOUNDATION |
|---|---|---|---|---|---|---|---|---|---|---|
| SOILS Verify the necessity of the Tests and/or Inspections with the requirements of the application that this PC is part of. | GENERAL | 1a | Verify that: - site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, - foundation excavations are extended to proper depth and have reached proper material, and - materials below footings are adequate to achieve the design bearing capacity. | | | | X | X | | X |
| | COMPACTED FILL | 2a | Perform classification and testing of fill materials. | | | | X | X | | X |
| | | 2b | Verify use of proper materials, densities and inspect lift thicknesses, placement, and compaction during placement of fill. | | | | X | X | | X |
| | | 2c | Test compaction of fill. | | | | X | X | | X |
| CONCRETE | LIGHT WEIGHT FILL OVER METAL DECK | 7a | Verify use of required design mix. | | X | | | X | | |
| | | 7c | During concrete placement, fabricate specimens for strength tests,perform slump and air content tests, and determine the temperature of the concrete. | | X | | | X | | |
| | | 7d | Test concrete (Fc). | | X | | | X | | |
| | | 7e | Batch plant inspection - continuous. See Note 5 for waiver. | | X | | | X | | |
| | FOUNDATION | 7a | Verify use of required design mix. | | | | X | X | | X |
| | | 7b | Identify, sample, and test reinforcing steel. See Note 1 for waiver. | | | | X | X | | X |
| | | 7c | During concrete placement, fabricate specimens for strength tests,perform slump and air content tests, and determine the temperature of the concrete. | | | | X | X | | X |
| | | 7d | Test concrete (Fc). | | | | X | X | | X |
| | | 7e | Batch plant inspection - continuous. See Note 5 for waiver. | | | | X | X | | X |
| | POST INSTALLED ANCHORS See Note 2 | 11a | Inspect installation of post-installed anchors | | | | X | X | | X |
| | | 11b | Test post-installed anchors. | | | | X | X | | X |
| STRUCTURAL STEEL | MATERIAL VERIFICATION | 17a | Verify identification of all materials and: - Mill certificates indicate material properties that comply with requirements, - Material sizes, types and grades comply with requirements | X | X | X | X | X | | |
| | | 17b | Test unidentified materials | X | X | X | X | X | | |
| | | 17c | Examine seam welds of HSS shapes | X | X | X | X | X | | |
| | | 17e | Verify end document steel fabrication per DSA approved construction documents See Note 6 for exception. | X | X | X | X | X | | |
| | FABRICATION OF MATERIALS, EQUIPMENT, WELDERS, ETC | 19a | Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS. | X | X | X | X | X | | |
| | | 19b | Verify weld filler material manufacturer's certificate of compliance. | X | X | X | X | X | | |
| | | 19c | Verify WPS, welder qualifications and equipment. | X | X | X | X | X | | |
| | SHOP WELDING | 19.1a | Inspect groove welds, multi-pass fillet welds, single-pass fillet welds > 5/16", plug and slot welds | X | X | X | X | X | | |
| | | 19.1b | Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds | X | X | X | X | X | | |
| | | 19.1c | Inspect welding of stairs and railing systems. See note 3. | X | X | X | X | X | | |
| | FIELD WELDING See Note 3 | 19.2a | Inspect groove welds, multi-pass fillet welds, single-pass fillet welds > 5/16", plug and slot welds | | | X | X | X | | X |
| | | 19.2b | Inspect single-pass fillet welds ≤ 5/16" | | | X | X | X | | X |
| | | 19.2f | Inspect welding of stairs and railing systems | | | X | X | X | | X |
| | NON-DESTRUCT DESTRUCTIVE TESTING | 20a | Ultrasonic. See note 4 | X | X | X | X | X | | |
| | | 20b | Magnetic Particle. See note 4 | X | X | X | X | X | | |

| | | | | |
|---|---|---|---|---|
| INSPECTOR CLASS (minimum requirements) | RSIP or Class 1 | In Plant RSIP or Class 1 Site: Class 4 for Single Story Site: Class 2 for Two-story | | Class 4 for Single Story Class 2 for Two-story |
| SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY | By the Owner and approved by DSA, A/E of Record and Structural Engineer | By the School District and approved by DSA, A/E of Record and Structural Engineer | | |
| COST OF THE PROJECT INSPECTOR (Title 24, Part1,Section 4–333(b)) AND TESTING AGENCY (Title 24, Part 1, Section 4–335) | By the Owner | By the School District | | |

NOTE 1: Reinforcing steel tests may be waived for one-story buildings, sec 1910A.2.
NOTE 2: Required only where the details of the PC specify the use of this type of anchor.
NOTE 3: Required only where the details of the PC specify this welding.
NOTE 4: Required only where both members of a joint are 5/16" thick or greater.
NOTE 5: If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1 or eliminated per 1705A.3.3.2.
NOTE 6: Not applicable to cold-formed steel light-frame construction.

The Example form DSA-103's shown on this sheet are for illustration purposes only to assist in the completion of future project-specific form DSA-103's. A form DSA-103 is to be completed for each Application that this PC is being incorporated into and all Example form DSA-103's are to be crossed out on this drawing.

## PC GENERAL NOTES

1. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES AND CANNOT BE REVIEWED OVER THE COUNTER (OTC).
2. PC BUILDING APPROVED ONLY FOR OCCUPANCY B, or E WITH OCCUPANT LOAD LESS THAN 250. (2016 CBC TABLE 1604A.5 RISK CATEGORY I & II).
3. PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
4. PC BUILDING LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A.
5. THIS PC IS NOT APPROVED FOR FIRE HAZARD SEVERITY ZONES PER C.B.C. CHAPTER 7A.
6. SITE AND USE SPECIFIC REQUIREMENT FOR FIRE ALARM SYSTEM MIGHT BE REQUIRED BUT NOT INCLUDED IN THIS PC APPROVAL.
7. THIS BUILDING IS STRUCTURALLY DESIGNED TO SUPPORT THE WEIGHT OF A FUTURE FIRE SPRINKLER SYSTEM (EQUIVALENT TO 1.5 psf MAXIMUM), IF REQUIRED.
8. THIS PC IS APPROVED FOR CLIMATE ZONES 1 THROUGH 16.
9. THIS PC IS NOT APPROVED FOR OCCUPANCY E USED AS SPECIAL HAZARD USE OR STORE SUCH AS LIBRARIES, VOCATIONAL SHOPS & DAYCARE CANNOT BE REVIEWED OVER THE COUNTER (OTC).
10. DRAFTSTOPS REQUIRED FOR CONCEALED SPACES OVER 3000 SQ.FT. (C.B.C. 718)
11. SOLAR READY SITE ADOPTED PC BUILDINGS: IF ROOF PITCH IS GREATER THAN 2:12, WHEN A PC BUILDING IS SITE ADAPTED, THE BUILDING SHALL BE ORIENTED PER SOLAR READY DIAGRAM ON SHEET A1D AND SOLAR READY REQUIREMENTS ON SHEET AGB.
12. ENVIRONMENTAL COMFORT FOR SITE ADOPTED PC BUILDINGS: PC BUILDING SHALL NOT BE PLACED IN LOCATIONS WITH EXTERIOR NOISE CONTOUR LEVEL OF 65 CNEL OR GREATER. PC BUILDING INTERIOR WALLS BETWEEN CLASSROOMS, TEACHER WORK SPACES, BREAK OUT ROOMS, OR OTHER OCCUPIED SPACES SHALL HAVE A MINIMUM STC OF AT LEAST 40.
13. AUTOMATIC FIRE SPRINKLER SYSTEM IS NOT DESIGNED NOR APPROVED AS PART OF THIS PC. IF REQUIRED, A COMPLETE FIRE SPRINKLER DESIGN SHALL BE SUBMITTED FOR DSA APPROVAL FOR THE SITE SPECIFIC APPLICATION.

## DSA GENERAL NOTES

1. ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO THE 2016 CALIFORNIA BUILDING CODE (C.B.C.). A COPY OF THE CALIFORNIA BUILDING CODE SHALL BE KEPT ON THE SITE AT ALL TIMES.
2. CHANGES TO THE APPROVED DRAWINGS & SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SEC. 4-338, PART 1, TITLE 24, CCR.
3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) & APPROVED BY THE ARCHITECT OF RECORD & THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333(b) OF 2016 TITLE 24, PART 1.
4. MATERIAL TESTING AS NOTED IN THE STRUCTURAL TESTS & INSPECTIONS AT THE LEFT SHALL BE PERFORMED AS REQ. PER SECTION 1704A & 2212A, & 1913A FOR CONCRETE OF 2016 C.B.C. MATERIAL TESTING REQUIRED BY FIRE REGULATIONS SHALL BE PERFORMED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
5. VERIFIED REPORTS (DSA/SSS FORM 6) SHALL BE SUBMITTED PER SECTION 4-336, 4-341(f), 342(b)(9), AND 4-343 (c) BY THE MANUFACTURER, INSPECTOR, STRUCTURAL ENGINEER.
6. A SEPARATE DSA APPLICATION NUMBER MUST BE OBTAINED BEFORE MANUFACTURING ANY ENVIROPLEX UNIT IN ACCORDANCE WITH THESE DRAWINGS.
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS & ENVIROMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8. SPECIAL INSPECTIONS PER CHAPTER 17A, 2016 C.B.C.
9. SITE SPECIFIC APPLICATION SHALL CLEARLY INDICATE THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.

## OPT. COMBINATIONS ALLOWED

Option combination table
24'x40' to 120'x40' PC

[X] applicable option selected for site specific project (to be marked/checked by PC manufacturer and verified by the design professional of the site specific project).
[ ] available option not used.
[ ] not applicable / not allowed.

| | | Roof: Bi-Pitch | Shed | Variable Pitch | Plant on fascia | Foundation: Concrete | 50# wood (2160 sf. max.) | 65# wood (2160 sf. max.) | 125# wood (2160 sf. max.) |
|---|---|---|---|---|---|---|---|---|---|
| Exterior finish | Standard MDO w/ vertical grooves, cement board siding, lap siding, wood clad siding | | | | | | | | |
| | Stucc-o-flex | | | X | | X | | | |
| | 3-coat stucco | | | | | | | | |
| Roof slope | Bi-pitch | | | | | | | | |
| | Shed | | | | | | | | |
| | Variable pitch | | | | | X | | | |
| Roof facades | Plant on fasica (all ext. finishes allowed) | | | | | | | | |
| Roof overhangs | Transverse endwalls / Longitudinal sidewalls | | | X | | X | | | |
| Roof skylights | Sol-a-tubes | | | | | | | | |
| Suspended canopies Awnings | | | | X | | X | | | |
| Floor load (see framing plans for joist spacing) | 50 psf | | | | | | | | |
| | 65 psf | | | X | | X | | | |
| | 125 psf | | | | | | | | |
| | 150 psf | | | | | | | | |
| Floor construction | 1 1/8" plywood sheathing | | | X | | X | | | |
| | Concrete poured in pan | | | | | | | | |
| | Level rock over plywood sheathing | | | | | | | | |
| Wall construction | 2x4 wood studs | | | | | | | | |
| | 2x6 wood studs | | | X | | X | | | |
| Fire rated const. | NR/Sprinklered | | | | | | | | |
| | Fire barriers (int & ext., multiple walls) | | | | | | | | |
| HVAC | Wall mount | | | | | | | | |
| | Interior | | | | | | | | |
| | Roof mount | | | | | | | | |

## GOVERNING CODES

2016 CALIFORNIA ADMINISTRATIVE CODE (CAC) (PART 1, TITLE 24, CCR)

2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2015 INTERNATIONAL BUILDING CODE WITH 2016 CALIFORNIA AMENDMENTS)

AISI S200 - (WITH THE EXCEPTION THAT ENVIROPLEX COLD ROLLED STRUCTURAL SECTIONS ARE NOT GALVANIZED).

2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (2014 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR) (2015 UNIFORM MECHANICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR) (2015 UNIFORM PLUMBING CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR).

2016 CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24, CCR). (2015 INTERNATIONAL FIRE CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)

2016 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13 - 2016

NFPA 72 - 2016

## DESIGN CRITERIA

### DEAD AND LIVE LOADS

FLOOR: LIVE LOAD - [ ] 50.0 PSF [X] 65.0 PSF [ ] 125.0 PSF [ ] 150.0 PSF

FLOOR: DEAD LOAD -
[X] PLYWOOD 5.0 PSF
[ ] PLYWOOD + LEVELROCK 8.25 PSF
[ ] CONCRETE 31.0 PSF

~~FOR SLOW LOAD~~ NOT PERMITTED

ROOF: LIVE LOAD - 20.0 PSF

ROOF: DEAD LOAD - 8.5 PSF

### ALLOWABLE SOIL PRESSURE

[ ] WOOD FOOTING 1000 PSF (DL + LL + LATERAL)

[X] CONCRETE FOOTING 2000 PSF (DL + LL) 2667 PSF (DL + LL + LATERAL)

### FLOOD DESIGN

BUILDINGS IN THIS PC ARE NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA

### WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST), V 110 MPH
WIND EXPOSURE CATEGORY C
CHAPTER 28, PART 2, ASCE 7-10, SEC 28.6 - SIMPLIFIED DESIGN WIND PRESSURES
$\lambda = 1.21$
RISK CATEGORY = II
$K_{zt} = 1.0$

### LOW SEISMIC DESIGN CRITERIA (Site specific $S_s \leq 2.142$)

LATERAL FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC): D (S, <= 0.75) E (0.75 < S, < 1.5)
SEISMIC IMPORTANCE FACTOR, $I_e$ 1.0
V=EQUIV. LATERAL FORCE PROCEDURE BASE SHEAR (STRENGTH DESIGN)
$V = C_s W = 0.286W$
$C_s = \frac{S_{DS}}{(R/I)} = 0.286$
BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
R = 3.5 p = 1.0 SITE CLASS: D
I = 1.0 $C_d$ = 3.0 $S_s$ = 2.142 $F_A$ = 1.0 $*S_{DS}$ = 1.0
$\Omega_o$ = 3.0 $S_1$ <=1.5 $F_v$ = 1.5 $S_{D1}$ <= 1.5

* PER CBC 1616A.1.12 (MODIFICATION TO ASCE 7-10, 12.8.1.3): "THE VALUE OF $C_s$ AND $E_v$ ARE PERMITTED TO BE CALCULATED USING A VALUE OF $S_{DS}$ EQUAL TO 1.0, BUT NOT LESS THAN 70% OF $S_{DS}$ AS DEFINED IN SECTION 11.4.4." THEREFORE, THIS PC IS PERMITTED FOR USE IN LOCATIONS WHERE $S_{DS}$ IS EQUAL TO 2.142 MAX. (1.0/0.7)(2/3)

### ~~HIGH SEISMIC DESIGN CRITERIA (Site specific $S_s \leq 2.625$)~~

~~LATERAL FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES~~
~~ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE~~
~~SEISMIC DESIGN CATEGORY (SDC): E (S, <= 0.75) E (0.75 < S, < 1.5)~~
~~SEISMIC IMPORTANCE FACTOR, $I_e$ 1.0~~
~~V=EQUIV. LATERAL FORCE PROCEDURE BASE SHEAR (STRENGTH DESIGN)~~
~~$V = C_s W = 0.35W$~~
~~$C_s = \frac{S_{DS}}{(R/I)} = 0.35$~~
~~BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES~~
~~R = 3.5 p = 1.0 SITE CLASS: D~~
~~I = 1.0 $C_d$ = 3.0 $S_s$ = 2.625 $F_A$ = 1.0 $*S_{DS}$ = 1.23~~
~~$\Omega_o$ = 3.0 $S_1$ <=1.5 $F_v$ = 1.5 $S_{D1}$ <= 1.5~~

~~* PER CBC 1616A.1.12 (MODIFICATION TO ASCE 7-10, 12.8.1.3): "THE VALUE OF $C_s$ AND $E_v$ ARE PERMITTED TO BE CALCULATED USING A VALUE OF $S_{DS}$ EQUAL TO 1.0, BUT NOT LESS THAN 70% OF $S_{DS}$ AS DEFINED IN SECTION 11.4.4."~~

## BUILDING DATA

| | |
|---|---|
| CONSTRUCTION TYPE: | VB |
| OCCUPANCY: | ~~"B" OR~~ "E" |
| BUILDING AREA: | 960 ~~TO 4800~~ S.F. NOMINAL |
| NUMBER OF STORIES: | 1 |

## SHEET INDEX



SHEET COUNT: 38

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS [X] FLS [X] ACS [X]
DATE: 04/10/2020

STRUCTURAL

03/26/2020

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST [illegible] No. S2030 STRUCTURAL

8-31-18 ALL SHEETS

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.


ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466–8000


CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

COVER SHEET, BUILDING CODES, C.B.C. DATA, SHEET INDEX

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FC-01
02-118094
ACS [illegible] FLS [illegible] SSS
DATE 9-6-2018

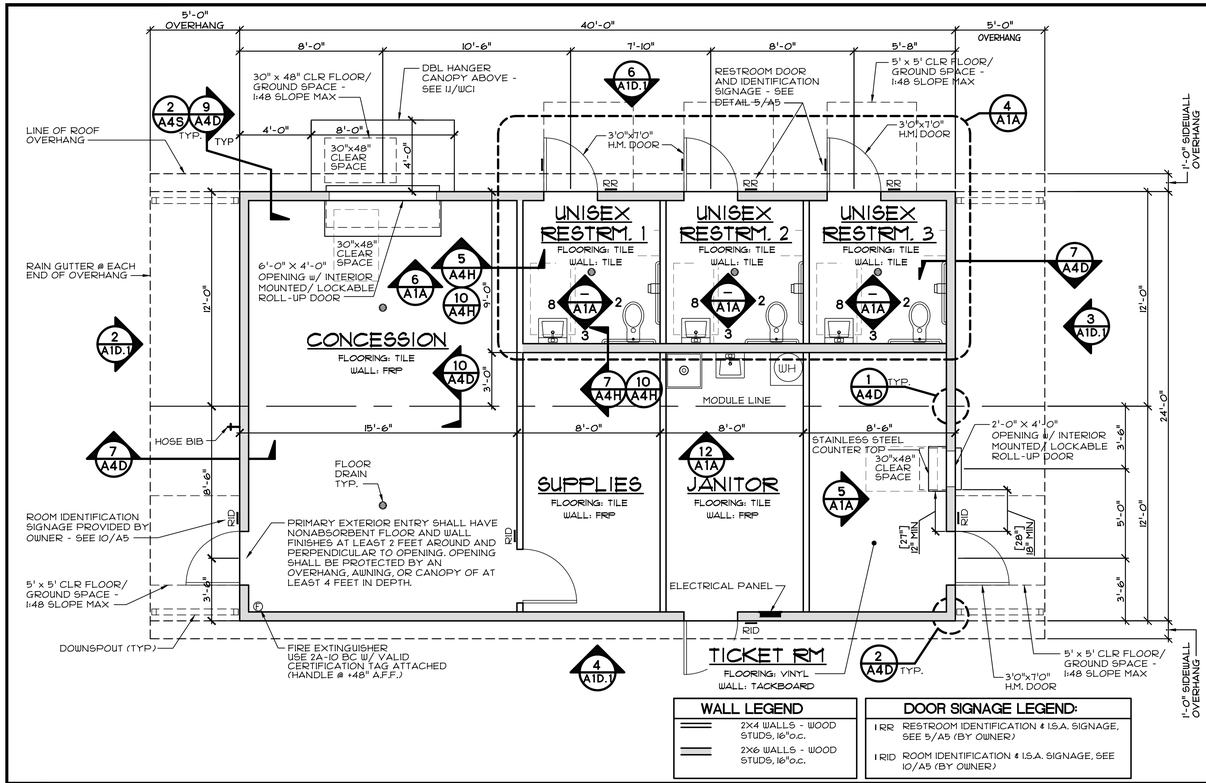
PRE-CHECK ( PC) DOCUMENT
~~Code: 2016 CBC~~
A separate project application for construction is required.

ACS: Alex Ellescas
FLS: Greg Cobabe
SSS: Ging-Song Chang



A0

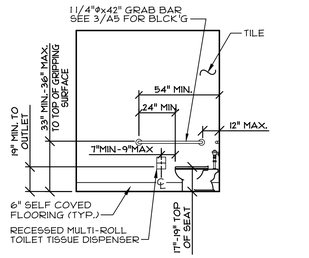
24'x40' TO 120'x40' P.C.



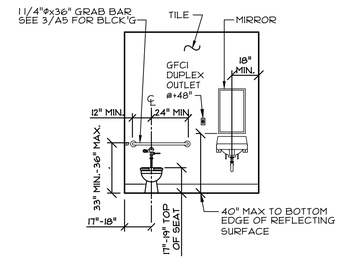

| WALL LEGEND | |
|---|---|
| | 2X4 WALLS - WOOD STUDS, 16"o.c. |
| | 2X6 WALLS - WOOD STUDS, 16"o.c. |

| DOOR SIGNAGE LEGEND: | |
|---|---|
| RR | RESTROOM IDENTIFICATION & I.S.A. SIGNAGE, SEE 5/A5 (BY OWNER) |
| RID | ROOM IDENTIFICATION & I.S.A. SIGNAGE, SEE 10/A5 (BY OWNER) |

## 1 FLOOR PLAN
SCALE: 1/4"=1'-0"

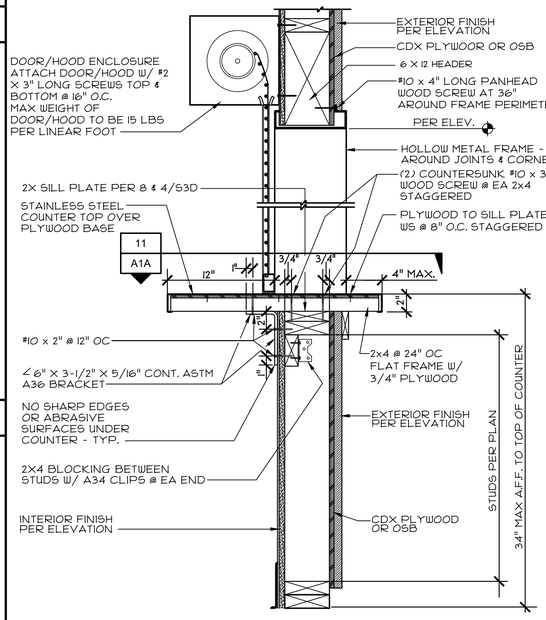


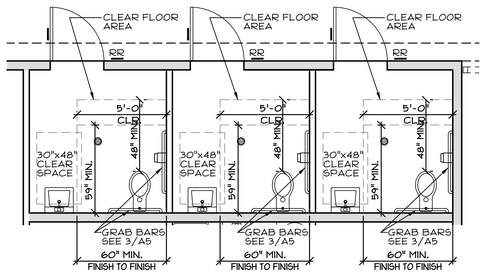

## 2 RESTROOM ELEVATIONS
SCALE: 1/4"=1'-0"



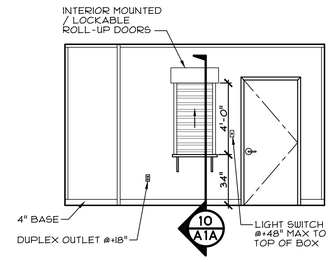

## 3 RESTROOM ELEVATIONS
SCALE: 1/4"=1'-0"

FOR MATERIAL SPECIFICATIONS & NOTES, SEE SHEET A1N.

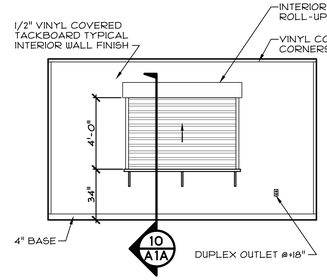


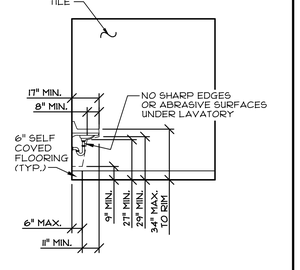

## 4 RESTROOM PLAN
SCALE: 1/4"=1'-0"



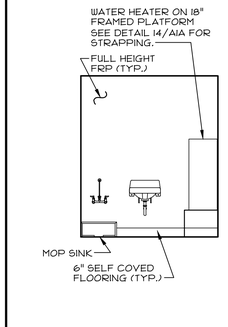

## 5 END WALL INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



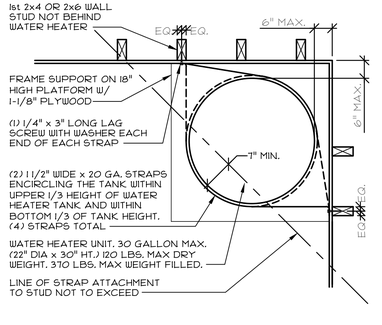

## 6 SIDE WALL INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



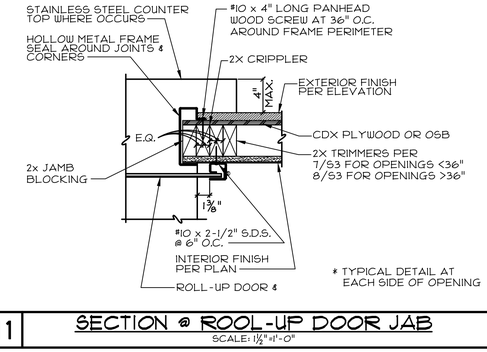

## 8 RESTROOM ELEVATIONS
SCALE: 1/4"=1'-0"




## 12 JANITOR ELEVATIONS
SCALE: 1/4"=1'-0"




## 14 TYP. WATER HEATER STRAPPING
SCALE: NONE




## 11 SECTION @ ROOL-UP DOOR JAB
SCALE: 1½"=1'-0"

## 10 SECTION @ SERVING WINDOW
SCALE: 1½"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

CYS
STRUCTURAL ENGINEERS INC.
2440 Natomas Park Drive, Suite 610
Sacramento, CA 95833
(916) 564-8727 Phone/Fax
www.cysengr.com

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

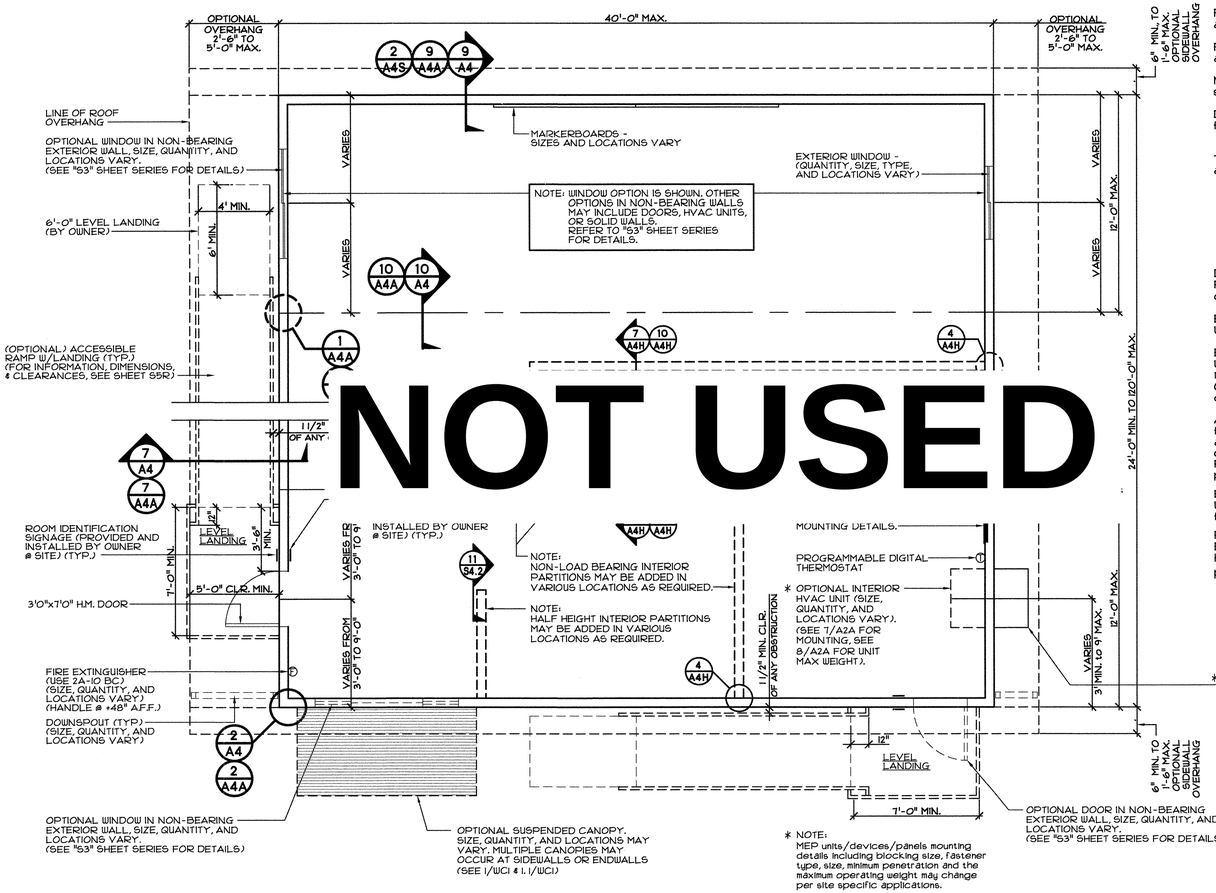
CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

FLOOR PLAN, INTERIOR ELEVATIONS

| REV / DATE: | BY: |
|---|---|
| | |

| | |
|---|---|
| JOB No.: | 19-000 |
| DRAWN BY: | RS |
| DATE: | 12/17/2019 |

A1A






Floor plan as depicted shall not be constructed nor shall be reviewed for approval at OTC appointments.

Floor plan as shown intends to illustrate the allowable structural flexibility to manufacture a variety of building sizes by connecting multiple moment frame modules together to form one building.

Not shown are roof plans, reflected ceiling plans, lighting plans, electrical plans, automatic fire sprinkler design, etc. A separate site specific application/review will be required.

Due to moment frame design with non-bearing exterior and interior walls; floor plan depicts flexible locations of doors, windows, window sizes, interior partition placements.

This floor plan shall not be constructed and is subject to site specific application review for, and not limited to, any/all of the following:

- Intended use of each room or space(s).
- Floor plan interior partition layout/configuration
- Location of fire extinguishers.
- Maximum travel distances.
- Locations of doors and egress components.
- Compliance with exit and exit access doorways and common path of travel requirements.
- Locations of draftstops and draftstop details.

Door hardware
Panic hardware is required to be installed when the configuration of any room provides an occupant load of 50 or greater per CBC 1010.1.10, and must comply with CBC 1010.1.1.

Egress location
Where (2) or more exits are required such exits shall have adequate separation per CBC 1007.1.1.

Egress illumination
Where (2) or more exits are required, such exits shall have interior and exterior landings illuminated by fixtures capable of automatic emergency power of not less than 90 minutes, (includes aisles, unenclosed stairways, corridors, exterior egress components at other than level of discharge, labs, shops, and windowless areas without student occupancy) per 1008.3.

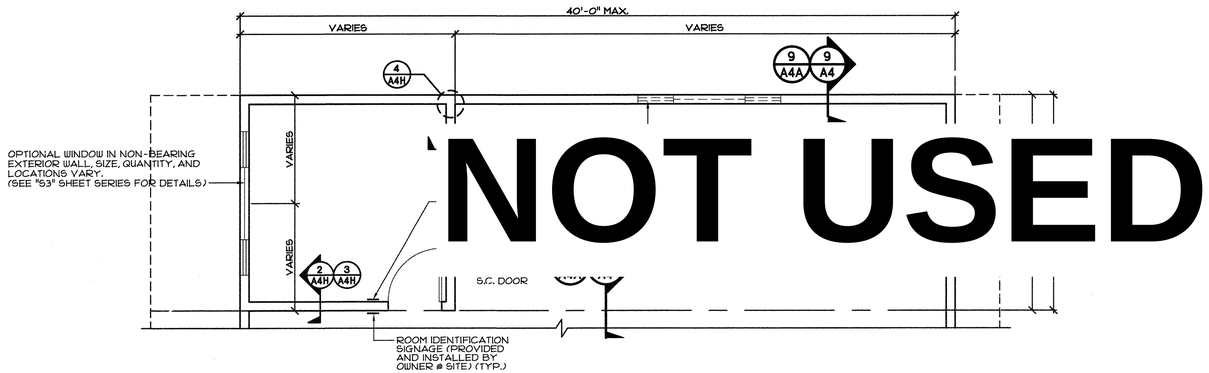
Alternate floor plan shown does not have an approved automatic fire sprinkler system design in this PC. If this plan is to be used, a sprinkler design shall be provided for DSA review/approval during a separate project site specific application. Roof plan, reflected ceiling plan, lighting & electrical plans, plumbing plans, etc. will also be reviewed under separate site specific application.

Exit Signs
Where required, exits and exit access shall be marked by approved exit sign readily visible from any direction of egress travel per CBC 1013.

Posting Of Occupancy Loads
Every room or space which is used for assembly, classroom, dining, drinking, or similar purposes having an occupant load of 50 or more shall have the occupant load of a room or space posted per CBC 1004.3.

## 1 ALTERNATE ADJUSTABLE FLOOR PLAN - (FOR STRUCTURAL REFERENCE ONLY)

SCALE: 1/4"=1'-0"






## 5 SMALL GROUP CLASSROOM OPTION - (FOR STRUCTURAL REFERENCE ONLY)

SCALE: 1/4"=1'-0"

| | QTY. (MIN.) | | |
|---|---|---|---|
| 24'x40' to 180'x40' PC | (A) EXTERIOR UNIT | (B) INTERIOR UNIT | (C) ROOF MT. UNIT |
| BUILDING LONGITUDINAL DIM.= 40'-0" MAX. | | | |
| 24' | 1 | 1 | 1 |
| 36' | 1 | 1 | 1 |

(A) "B (F
(B) "B (F
(C) "GOODMAN" 48M (MIN.)(OR EQUAL) (SEE 8/A2B FOR MIN. EFFICIENCIES) (FOR MAX UNIT WEIGHT, SEE 8/A2B)

NOTE:
1) TYPICAL HVAC UNIT QUANTITIES ARE SHOWN. QUANTITIES MAY BE ADJUSTED FOR SITE SPECIFIC CONDITIONS & BUILDING PLAN LAYOUT.
2) 5 TON UNITS MUST INCLUDE ECONOMIZER AND CONTROLS.

## 3 TYP. HVAC QTY. PER BUILDING SIZE

**RAIN WATER LEADERS MINIMUM QUANTITIES**

| Bi-pitched 24'x40' to 180'x40' PC | QTY. (MIN.) | |
|---|---|---|
| BUILDING LONGITUDINAL DIM.= 40'-0" MAX | FRONT OVERHANG | REAR OVERHANG |
| 24' | 1 | 1 |
| 36' | 1 | 1 |
| 48' | 2 | 2 |
| 60' | 3 | 3 |
| 72' | 3 | 3 |
| 84' | 4 | 4 |
| 96' | 4 | 4 |
| 108' | 5 | 5 |
| 120' | 5 | 5 |

BUILDING TRANSVERSE DIMENSION

**RAIN WATER LEADERS MINIMUM QUANTITIES**

| Shed 24'x40' to 180'x40' PC | QTY. (MIN.) |
|---|---|
| BUILDING LONGITUDINAL DIM.= 40'-0" MAX | REAR OVERHANG |
| 24' | 1 |
| 36' | 1 |
| 48' | 2 |
| 60' | 3 |
| 72' | 3 |
| 84' | 4 |
| 96' | 4 |
| 108' | 5 |
| 120' | 5 |

BUILDING TRANSVERSE DIMENSION

## 4 DOWNSPOUT QTY. PER BUILDING SIZE

PRE CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER — MATTHEW ERNEST KEARNS — No. S2030 — STRUCTURAL — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

FLOOR PLAN OPTIONS

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118084
AC. ☑ FLS ☑ SS ☑
DATE: 9-6-2018

24'x40' TO 120'x40' P.C.

A1.0

I:\CAD\2016 PC\2016 - 24x40\Drawings\2016 - 24x40 - A1-0.dwg, 7/9/2018 11:29:56 AM

NOTE: DRINKING FOUNTAIN HANDRAILS SHALL BE PROVIDED AND INSTALLED BY OTHERS ON-SITE.

## 9 DRINK. FOUNTAIN WING WALLS
SCALE: NONE

NOTE: EXHAUST VENTING IS REQUIRED, SEE NOTE 8/6, SHEETS A2, A2A, OR A2B.

Alternate floor plan shown does not have an approved automatic fire sprinkler system design in this PC. If this plan is to be used, a sprinkler design shall be provided for DSA review/approval during a separate project site specific application. Roof plan, reflected ceiling plan, lighting & electrical plans, plumbing plans, etc. will also be reviewed under separate site specific application.

NOT USED

## 2 SINGLE TOILET OPTION
SCALE: 1/4"=1'-0"

NOTE: EXHAUST VENTING IS REQUIRED. SEE NOTE 8/6, SHEETS A2, A2A, OR A2B.

Alternate floor plan shown does not have an approved automatic fire sprinkler system design in this PC. If this plan is to be used, a sprinkler design shall be provided for DSA review/approval during a separate project site specific application. Roof plan, reflected ceiling plan, lighting & electrical plans, plumbing plans, etc. will also be reviewed under separate site specific application.

NOT USED

## 3 DOUBLE TOILET OPTION
SCALE: 1/4"=1'-0"

NOTE: INTERIOR WALLS AND CEILING FINISHES SHALL COMPLY WITH CBC TABLE 803.1

NOTE: INTERIOR DIMENSIONS SHOWN ARE FINISH TO FINISH.

TYPICAL LAYOUT SHOWN. ROOM CONFIGURATION, FIXTURE QUANTITIES AND ARRANGEMENTS MAY VARY. ALTERNATE LAYOUTS SHALL MEET ACCESSIBILITY REQUIREMENTS.

Alternate floor plan shown does not have an approved automatic fire sprinkler system design in this PC. If this plan is to be used, a sprinkler design shall be provided for DSA review/approval during a separate project site specific application. Roof plan, reflected ceiling plan, lighting & electrical plans, plumbing plans, etc. will also be reviewed under separate site specific application.

NOT USED

## 4 MULTIPLE TOILET OPTION
SCALE: 1/4"=1'-0"

Alternate floor plan shown does not have an approved automatic fire sprinkler system design in this PC. If this plan is to be used, a sprinkler design shall be provided for DSA review/approval during a separate project site specific application. Roof plan, reflected ceiling plan, lighting & electrical plans, plumbing plans, etc. will also be reviewed under separate site specific application.

NOT USED

TYPICAL LAYOUT SHOWN. ROOM CONFIGURATION, CASEWORK QUANTITIES AND ARRANGEMENTS MAY VARY. ALTERNATE LAYOUTS SHALL MEET ACCESSIBILITY REQUIREMENTS.

## 6 KITCHEN / CABINET OPTION
SCALE: 1/4"=1'-0"

CBC TABLE 11B-604.9
SUGGESTED DIMENSIONS FOR CHILDREN'S USE

| | AGES 3 AND 4 | AGES 5 THRU 8 | AGES 9 THRU 12 |
|---|---|---|---|
| WATER CLOSET CENTERLINE | 12" | 12" TO 15" | 15" TO 18" |
| TOILET SEAT HEIGHT | 11" TO 12" | 12" TO 15" | 15" TO 17" |
| GRAB BAR HEIGHT | 18" TO 20" | 20" TO 25" | 25" TO 27" |
| DISPENSER HEIGHT TO OUTLET | 14" | 14" TO 17" | 17" TO 19" |

DIMENSIONS FOR ADULT USE

| | |
|---|---|
| WATER CLOSET CENTERLINE | 17" TO 18" |
| TOILET SEAT HEIGHT | 17" TO 19" |
| GRAB BAR HEIGHT | 33" TO 36" (TO TOP OF GRIP SURFACE) |
| DISPENSER HEIGHT TO OUTLET | 19" TO OUTLET (7" TO 9" FROM FRONT OF TOILET TO CENTERLINE) |

## 9 TYPICAL FIXTURE MOUNTING HEIGHTS

NOT USED

## 8 TYPICAL TOILET ROOM ELEVATIONS
SCALE: 1/4"=1'-0"

FOR MATERIAL SPECIFICATIONS & NOTES, SEE SHEET A1N.

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



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APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER — STEVEN ERNEST CASSES — No. S2030 — STATE OF CALIFORNIA

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

FLOOR PLAN OPTIONS
(THIS SHEET NOT USED FOR O.T.C. APPLICATION)

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02-118094
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DATE 9-6-2018

A1.01

24"X40" TO 120"X0" P.C.

## FINISHES:

1. CARPETS -

# NOT USED

1.1 RESILIENT BASE COVE -
BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH, MOULDED TOP SET COVE. SOLID COLORS AS MANUFACTURED BY "BURKE RUBBER CO." OR EQUAL.
ADHESIVE SHALL COMPLY WITH 2016 CAL GREEN BUILDING STANDARDS CODE, SEC 5.504.4.1

2. COMMERCIAL SHEET VINYL / RESILIENT FLOORING -
ARMSTRONG CORLON OR EQUAL.
FLOORING SHALL BE SLIP RESISTANT. (0.5 MIN. COEFFICIENT OF FRICTION PER ASTM D-2047)
80% OF NON-ABORBENT FLOORING SHALL COMPLY WITH 2016 CAL GREEN STANDARDS CODE, SECTION 5.504.4.6.
APPLICATION AND MAINTENANCE OF POLISHED-COATED FLOOR SURFACES IS BY OWNER.

WALL BASE - 6" SELF COVED SHEET VINYL (SAME AS NOTE 1.1 ABOVE)

3. 1/2" VINYL WRAPPED TACKBOARD OVER 1/2" GYPSUM WALL BOARD.
TACKBOARD FLAME SPREAD 65, SMOKE DENSITY 135.

4. FIBERGLASS REINFORCED POLYETHELYENE (FRP) PANELS OVER 1/2" GYPSUM WALL BOARD (OVER WATER RESISTANT GWB AT PLUMBING AND WET WALLS ONLY)
FRP FLAME SPREAD 25, SMOKE DENSITY 180.

5. ADHESIVES SHALL BE WATER BASE, SOLVENT BASE NOT ACCEPTABLE. FURNISH AND APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
ADHESIVES SHALL COMPLY WITH 2016 CGBSC, SECTION 5.504.4.1

6. SEALANTS -
ROOF & MODULE LINE - POLYURETHANE
SIDING & TRIM - ACRYLIC LATEX
SEALANTS SHALL COMPLY WITH 2016 CGBSC, SECTION 5.504.4.1

7. PAINT -
EXTERIOR WOOD
PRIMER.....ACRYLIC UNDERCOAT
FINISH .....ACRYLIC LATEX

METALS
PRIMER.....RED OXIDE ALKYD
FINISH .....ACRYLIC LATEX

PAINTS AND COATINGS SHALL COMPLY WITH 2016 CGBSC, SECTION 5.504.4.3

8. EXTERIOR SIDING -

# NOT USED

9. JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT INFILTRATION AND EXFILTRATION.
SEALANT PAINTED TO MATCH FINISHES.

10. ENVIRONMENTAL QUALITY:
ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, CARPET SYSTEMS, CARPET CUSHIONS, COMPOSITE WOOD PRODUCTS, AND RESILIENT FLOORING SYSTEMS SHALL COMPLY WITH 2016 CAL GREEN BUILDING STANDARDS CODE, REFERENCE TABLES 5.504.4.1, 5.504.4.2, 5.504.4.3, AND 5.504.4.5.

## DOORS:

1. HOLLOW METAL DOORS AND FRAMES- SIZES NOTED ON PLAN, 1 3/4" THICK 18 GA.
FULL FLUSH DOOR IN 16 GA. METAL FRAME
EXIT DOOR SHALL BE OPENABLE FROM THE INTERIOR WITHOUT A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

2. CLOSERS FOR INTERIOR AND EXTERIOR DOORS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 5 LBS. MAX. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

3. DEADBOLTS NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.

4. DOOR HANDLES & PULLS SHALL BE PLACED ON BOTH SIDES; LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.

5. DOOR SWINGS CAN BE RIGHT OR LEFT HAND HINGE.

6. HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE FINISHED FLOOR.
- ALL DOORS TO CLASSROOMS, AND ANY ROOM WITH AN OCCUPANT LOAD OF 5 OR MORE PERSONS, SHALL BE EQUIPED WITH 'AB211' COMPLIANT HARDWARE.

7. CLASSROOM EXTERIOR DOOR HARDWARE:
LOCKSET (LEVER MODEL): SCHLAGE ND50PD RHO (OR EQUAL) (TYP. UNLESS OTHERWISE NOTED)
LOCKSET (PANIC DEVICE): **NOT USED**
EXTERIOR HINGES: HAGER BB1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL
INTERIOR HINGES: HAGER 1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL
CLOSER: NORTON 8501BF OR EQUAL
THRESHOLD: PEMKO 271A OR EQUAL
DOOR BOTTOM: PEMKO 216AV OR EQUAL
WEATHERSTRIP: PEMKO 299AV OR EQUAL

8. RESTROOM EXTERIOR DOOR HARDWARE:
LOCKSET: SCHLAGE D70PDRHO OR EQUAL
HINGES: HAGER BB1279 N.R.P 4-1/2"x4-1/2" OR EQUAL
CLOSER: NORTON 8501BF OR EQUAL
THRESHOLD: PEMKO 271A OR EQUAL
DOOR BOTTOM: PEMKO 216AV OR EQUAL
WEATHERSTRIP: PEMKO 306A OR EQUAL

## WINDOWS:

1. WINDOWS: FOR ALL CLIMATE ZONES - DOUBLE PANE, CLEAR,
ALUM. FRAME W/ NFRC RATED U-VALUE = 0.65 MIN. / SHGC = 0.30 MIN. / VT = 0.50 MIN.
IS REQUIRED (VINYL FRAME WINDOWS MAY BE USED AS LONG AS MINIMUM U-VALUE , SHGC, AND VT NOTED ABOVE ARE MET)

A MINIMUM OF (1)OPERABLE WINDOW IN EACH ROOM OR SPACE SHALL COMPLY WITH SECTION 11B-309

11B-309 Operable Parts

11B-309.1 General.
Operable parts shall comply with Section 11B-309

11B-309.2 Clear floor space.
A clear floor or ground space complying with Section 11B-305 shall be provided.

11B-309.3 Height
Operable parts shall be placed within one or more of the reach ranges specified in Section 11B-308

11B-309.4 Operation
Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds maximum.

## PLUMBING:

1. PLUMBING FIXTURE SCHEDULE:

WATER CLOSET (WALL MOUNT): KOHLER "KINGSTON" (1.28 G.P.F.) K-4325 OR EQUAL
W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.

WATER CLOSET (FLOOR MOUNT): KOHLER "HIGHCLIFF ULTRA" (1.28 G.P.F.) K-96058-SSL OR EQUAL
W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.

SEAT: BEMIS 1955-SSC (O.F.L.C.) OR EQUAL

URINALS: KOHLER "DEXTER" K-5452-ET (0.125 G.P.F.) OR EQUAL
W/ SLOAN MODEL 186-0.125 FLUSH VALVE (0.125 G.P.F.) OR EQ.

LAVATORIES: KOHLER "KINGSTON" K-2005 20" x 18" OR EQUAL

FAUCET: T & S BRASS, B-2711-F05 (0.5 GPM) OR EQUAL

OPTIONAL WATER HEATER: "AO SMITH", PEC-30, 30 GAL, ELECTRIC,
15,359 INPUT RATE, (OR EQUAL)
EXPOSED HOT WATER PIPES SHALL BE INSULATED.
1" THICK INSULATION FOR PIPE 1" DIA OR LESS.
1 1/2" THICK INSULATION FOR PIPE GREATER THAN 1" DIA.

COLD WATER PIPING: TYPE L COPPER

DRAIN, WASTE & VENT: ABS AND PVC PIPES, STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER TITLE 24, PART 5, CALIFORNIA CODE OF REGULATIONS, CHAPER 4, SEC. 401 (A)

2. ALL PLUMBING FIXTURES AND ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS. (PER SECTION C.B.C. 11B DIVISION 6)
FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE BY ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
LEVER OPERATED, PUSH TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

3. ALL TOILETS; FLOOR MOUNTED, OR WALL MOUNTED W/ HAND OPERATED FLUSH VALVE LOCATED 44 INCHES MAX. ABOVE FLOOR. WHEELCHAIR ACCESSIBLE TOILETS SHALL HAVE THE FLUSH VALVE ACTIVATOR ON THE OPEN SIDE.

4. RESTROOM PRIVACY PARTITIONS:
DOORS HANDLES FOR ENAMELED STEEL PARTITIONS SHALL BE PLACED ON BOTH SIDES NEAR THE LATCH; SHALL PROVIDE A CLEAR WIDTH OF 34" FOR WHEELCHAIR ACCESSIBLE STALLS AND 24" WIDE FOR STANDARD STALLS. DOORS FOR ACCESSIBLE TOILETS SHALL BE SELF CLOSING, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.(TOILET PARTITIONS MATERIALS PER 2016 CBC 803.1.1 – MIN. CLASS "C" RATING

5. RESTROOM DOOR SIGNAGE:
THE DOOR LEADING INTO BOY'S FACILITY SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. THE DOOR LEADING INTO GIRL'S FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER. UNISEX FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4 THICK AND 12" IN DIAMETER WITH A 1/4" THICK TRIANGLE WITH THE VERTEX POINTING UPWARD SUPERIMPOSED ON THE CIRCLE & WITHIN THE 12" DIAMETER. THE GEOMETRIC SYMBOLS SHALL BE MOUNTED ON THE DOOR AT A HEIGHT PER DETAIL 5 SHEET A5 AND THEIR COLOR AND CONTRAST SHALL MEET THE IDENTIFICATION SIGNAGE FINISH REQUIREMENTS OF DETAIL 10 SHEET A5

## ROOFING

1. METAL ROOF:
PREFINISHED, UNPENETRATED INTERLOCKING, 26 GAGE MIN. GALVANIZED STEEL ROOF PANELS, MECH. CRIMPED STANDING SEAMS OVER SEAL-TITE #15 UNDERLAYMENT OVER 5/8" APA RATED, EXTERIOR GRADE PLYWOOD, OR ORIENTED STRAND BOARD CLASS "B" FIRE RATING). REFERENCE 2/A1R FOR ATTACHMENT.

## INSULATION

1. ALL INSULATION (INCLUDING PIPE INSULATION) SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS, CALIFORNIA BUILDING CODE SEC, 720 & 2603 FOR FOAM. MAX FLAME SPREAD: 25, MAX SMOKE DENSITY: 450

ROOF: ALL CLIMATE ZONES - R-19 FIBERGLASS BATTS REQUIRED (MIN.)

WALLS: ALL CLIMATE ZONES - R-13 FIBERGLASS BATTS REQUIRED (MIN.)

FLOOR: ALL CLIMATE ZONES - 2" POLYISOCYANURATE RIGID INSULATION (R-6.4 PER INCH OR GREATER)

## IDENTIFICATION

1. NOTE: THE MANUFACTURER SHALL PLACE TWO PERM. IENT METAL IDENTIFICATION TAG ON EACH MODULAR BUILDING MECHANICALLY FASTENED TO THE END WALL. THE TAG SHALL SHOW D.S.A. APPLICATION MUMBER, MANUFACTURER'S SERIAL NUMBER, PLANT INSPECTOR'S IDENTIFICATION MARK AND DESIGN FLOOR AND ROOF LIVE LOAD. PLACE ONE TAG ON EXTERIOR AND, ONE ON THE INTERIOR ABOVE CEILING LINE.

## LUMBER NOTES

1. SAW LUMBER GRADED PER WEST COAST LUMBER INSPECTION BUREAU, RULE 17.
2. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR #2, ALL BLOCKING SHALL BE DOUGLAS FIR #3,
3. LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
4. LUMBER MAY BE REJECTED FOR BOXED HEART, EXCESSIVE WARP, TWIST, SPLIT, CHECK, FUNGUS, MOLD, OR ANY REASON PROVIDED BY GRADING RULES.
5. ALL FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION AND SHALL BE AT 19% MAXIMUM MOISTURE CONTENT (VERIFIED BY THE CONTRACTOR) BEFORE BEING ENCLOSED BY INSULATION, GYPSUM BOARD, OR OTHER SURROUNDING MATERIALS.

## BUILDING AND WALL PANELS:

1. ALL MODULES MAY BE BUILT OPPOSITE HAND FROM THE WAY THEY ARE SHOWN
2. SIDEWALL & ENDWALL ELEVATIONS DEPICT NON-BEARING WALLS NOT REQUIRED FOR THE RESISTANCE OF VERTICAL OR LATERAL LOADS.

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



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STRUCTURA, INC.
2450 Notre Dame
Chico, CA 95928
(916) 345-0200 (916) 345-1326 Fax
www.structura.com

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

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MATERIAL SPECIFICATIONS & NOTES

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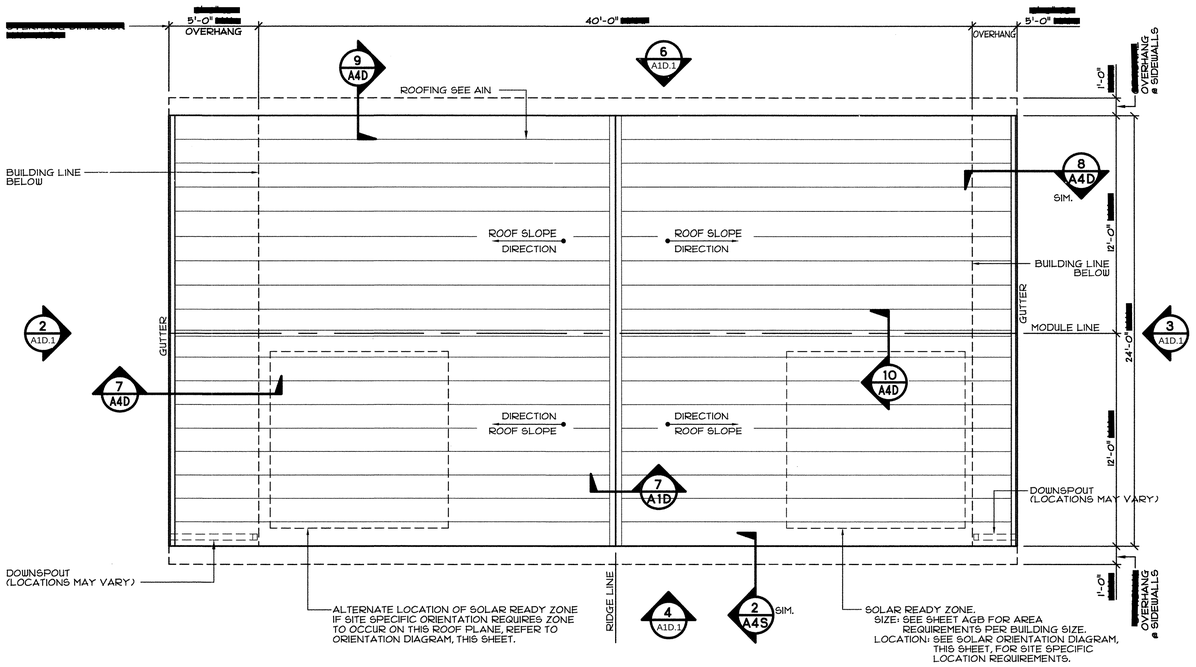
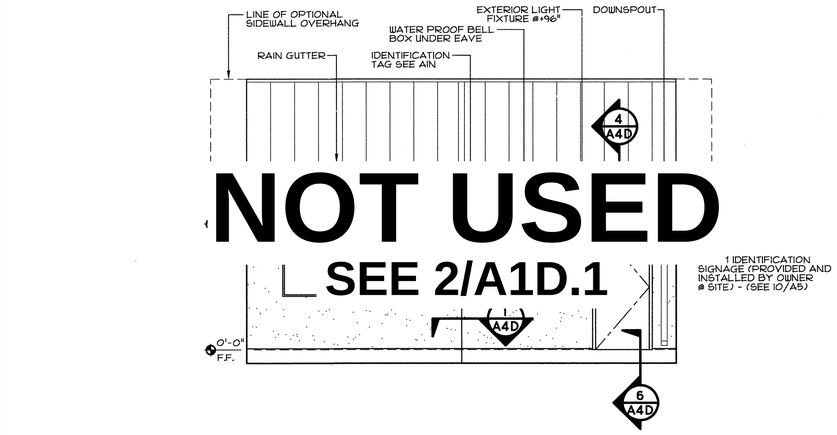
2018 – 24x40

A1N

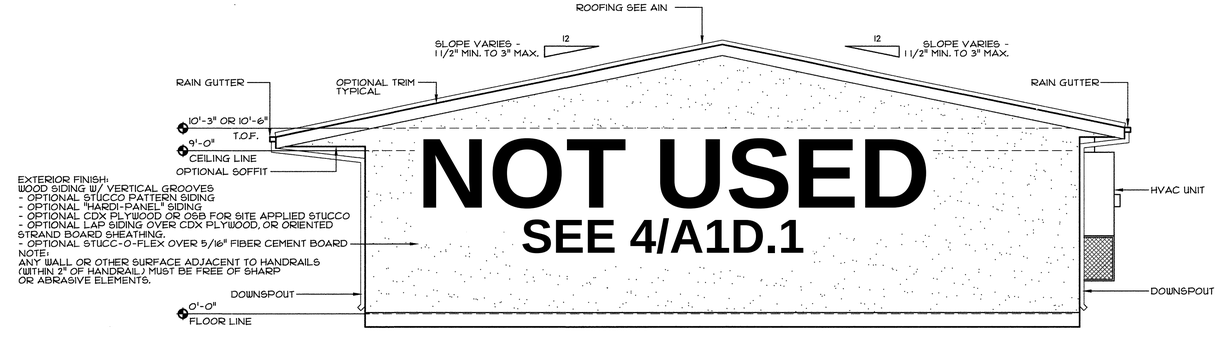
24'x40' TO 120'x40' P.C.



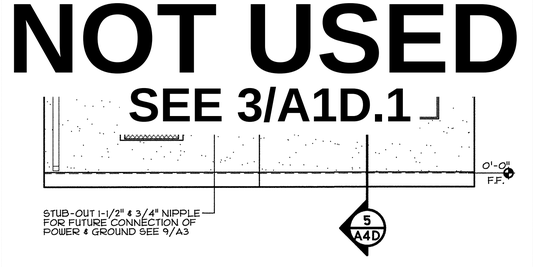

1 ROOF PLAN
SCALE: 1/4"=1'-0"



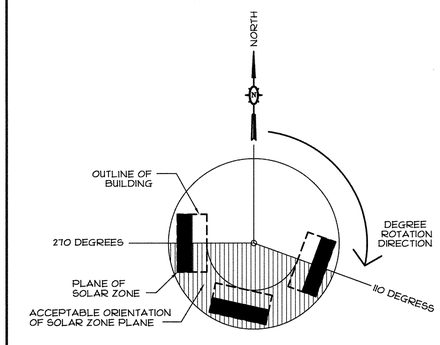

2 END WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"




4 SIDE WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"




3 END WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"




( FOR STEEP ROOFS ONLY, PITCH GREATER THAN 2:12 )

FOR FURTHER REQUIREMENTS AND INFORMATION, SEE SHEET AGB

5 SOLAR ZONE ORIENTATION




6 SIDE WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"




7 TYP. ROOF CAP DETAIL
SCALE: 3"=1'-0"

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STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

VARIABLE PITCH ROOF PLAN, & EXTERIOR ELEVATIONS

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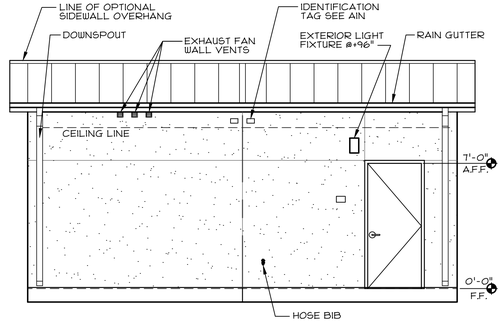
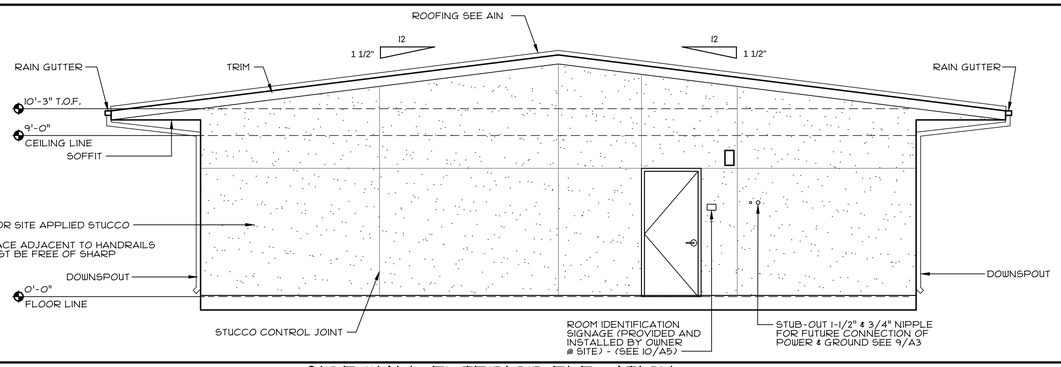
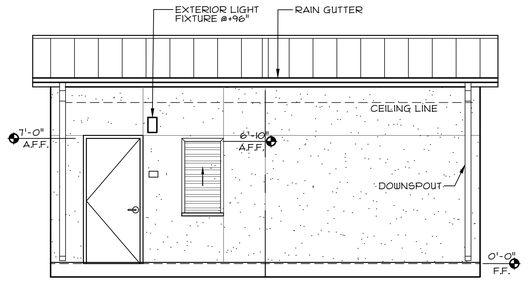



2 END WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"

1

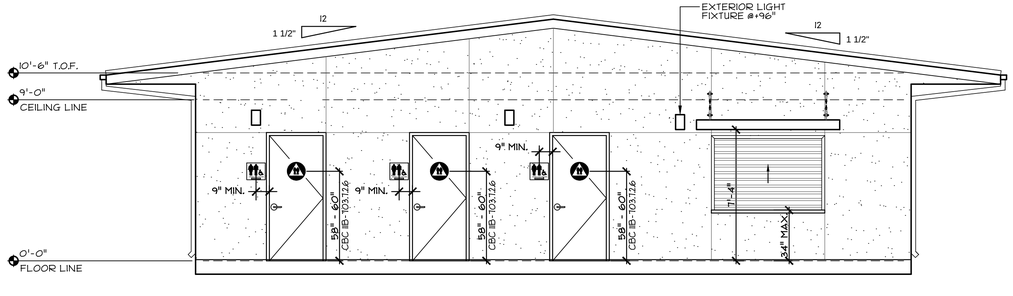



4 SIDE WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"




3 END WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"

5




6 SIDE WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"

7

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CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

EXTERIOR ELEVATIONS

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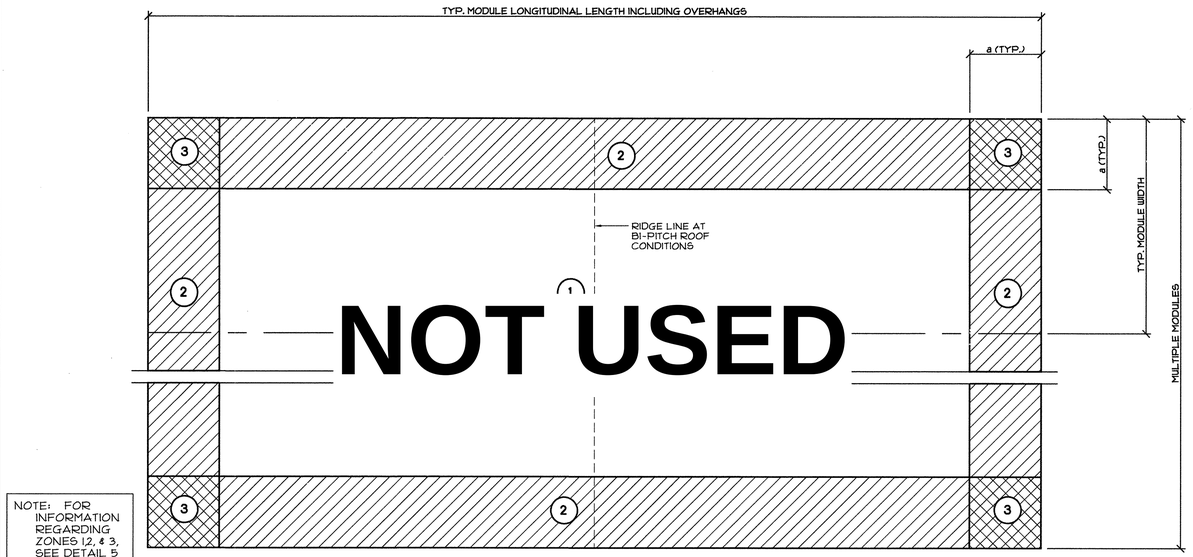
|---|---|
| JOB No.: | 19-000 |
| DRAWN BY: | RS |
| DATE: | 12/17/2019 |

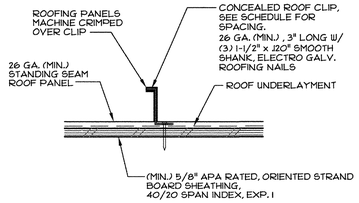
A1D.1




## 1A FOR PV DESIGNER REF. ONLY - GENERIC WIND PRESSURE MAP EXAMPLE "SHED" OR "BIPITCHED" ROOF

SCALE: NONE


## 1B FOR PV DESIGNER REF. ONLY - GENERIC WIND PRESSURE MAP EXAMPLE "VARIABLE-PITCHED" ROOF




| ROOF CLIP SPACING SCHEDULE | | |
|---|---|---|
| ZONE | ULTIMATE WIND UPLIFT (PSF) | SPACING |
| 3 | 66.6 | 12"o.c. |
| 2 | 44.2 | 24"o.c. |
| 1 | 26.4 | 24"o.c. |

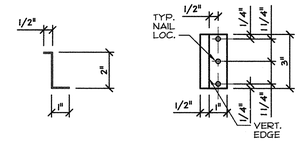
## 2 TYP. ROOFING ATTACHMENT

SCALE: 3"=1'-0"

a= DIMENSION PER ASCE 7-10
10% OF LEAST HORIZONTAL DIMENSION OR 0.4%h*, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3'.

*h = MEAN ROOF HEIGHT IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ANGLES < 10°

(1)(2)(3) INDICATE DESIGN WIND PRESSURE ZONES PER ASCE 7-10 FIGURE 30.5-1, SEE SCHEDULE 2, THIS SHEET FOR WIND PRESSURES IN EACH ZONE.




CLIP PROFILE CLIP PLAN VIEW

## 3 TYP. ROOFING CLIP

SCALE: 3"=1'-0"

1. The roof clip uplift capacity is derived from testing the set up to failure rather than calculations. The roof clip assembly test results are per Wallace Kuhl, WKA No. 11228.01. The average maximum test load for S-5 clamps installed directly over roof clips was 540#. The average maximum test load for S-5 clamps installed between roof clips was 520#. Therefore, allowable uplift per clip is 520#//(S.F.=3.0) =173#, 3 is the safety factor per DSA IR 16-8.
2. The wind pressures for each site-specific project are to be determined by the PV designer based on the site-specific basic wind speed and wind exposure category.
3. Roof clip type and spacing shown in detail 2 & 3/A1R is standard. The PV designer shall design the PV system within the capacity of the standard clip/spacing.
4. Standard roof clip spacing shall be verified by the PV designer to be adequate for the PV design & site-specific project wind zone pressures.
5. Refer to sheet AGB for solar ready requirements.

## 5 NOTES.

## 4 NOTES (FUTURE PV DESIGN)

SCALE: 3"=1'-0"

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PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



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APP. 02-118017 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

CSA Structural Group
3140 Nielsen
Modesto, CA 95354
(916) 920-2020 (916) 920-1334 Fax
www.csasg.com

03/26/2020

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSSI No. S2030 STRUCTURAL OF CALIFORNIA

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ENVIROPLEX, INC.
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CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

ROOFING ATTACHMENT

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| | |

JOB No.:
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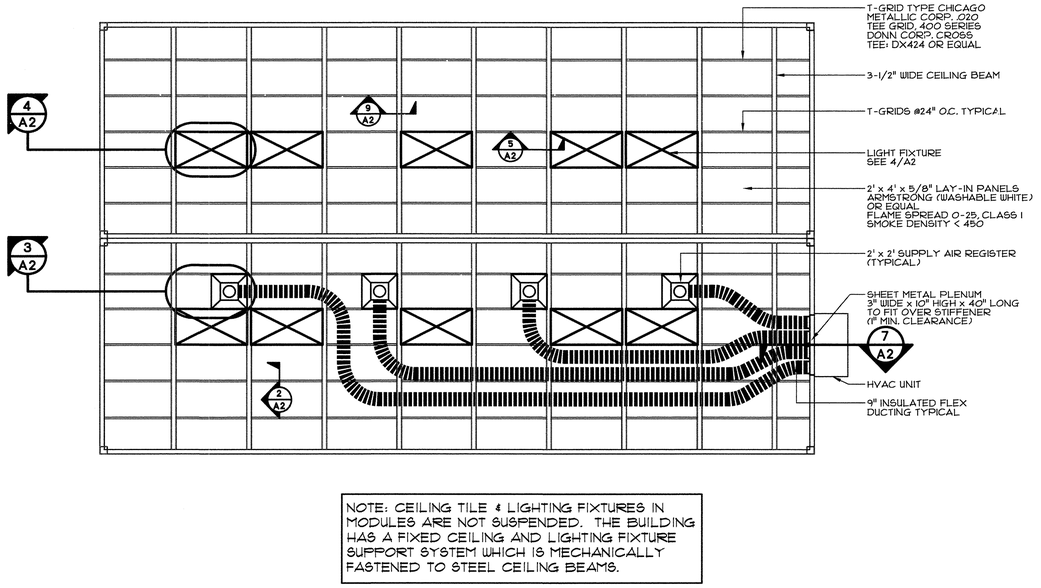
02-118094
AC FLS SS
DATE 9-6-2018

A1R

24"x40" TO 120"x40" P.C.

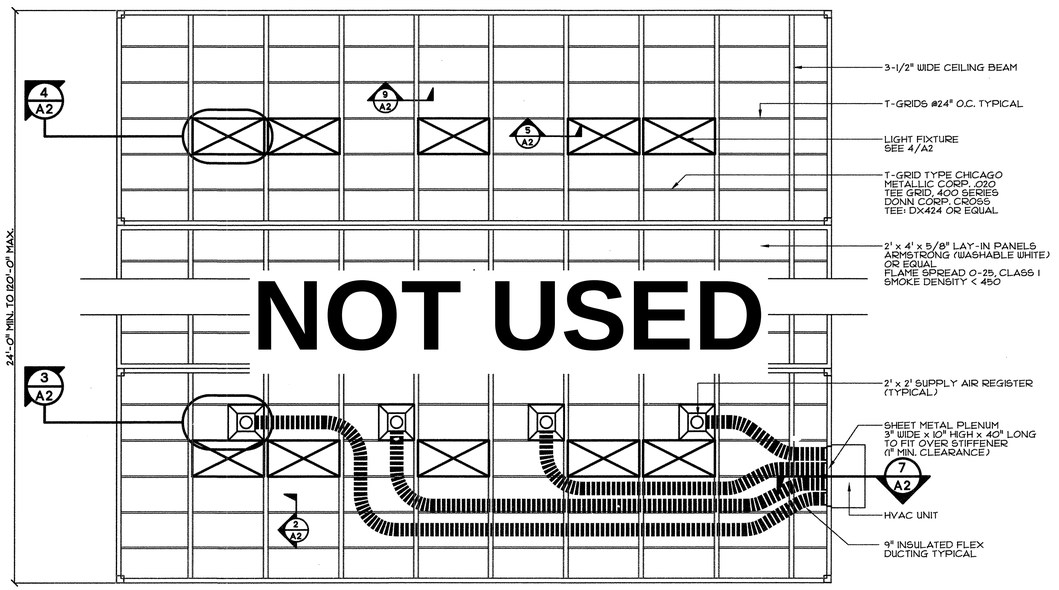
I:\CAD\2016 PC\2016 - 24x40\Drawings\2016 - 24x40 - A1R.dwg, 7/6/2018 10:55:01 AM




NOTE: CEILING TILE & LIGHTING FIXTURES IN MODULES ARE NOT SUSPENDED. THE BUILDING HAS A FIXED CEILING AND LIGHTING FIXTURE SUPPORT SYSTEM WHICH IS MECHANICALLY FASTENED TO STEEL CEILING BEAMS.

## 1 "EXTERIOR HVAC" MECHANICAL & REFLECTED CEILING PLAN

SCALE: 1/4"=1'-0"



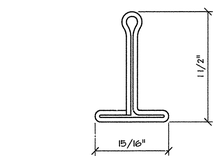

NOT USED

NOTE: CEILING TILE & LIGHTING FIXTURES IN MODULES ARE NOT SUSPENDED. THE BUILDING HAS A FIXED CEILING AND LIGHTING FIXTURE SUPPORT SYSTEM WHICH IS MECHANICALLY FASTENED TO STEEL CEILING BEAMS.

(FOR STRUCTURAL REFERENCE ONLY)

## 6 ALTERNATE ADJUSTABLE "EXTERIOR HVAC" MECHANICAL & REFLECTED CEILING PLAN

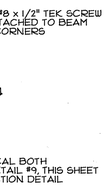
SCALE: 1/4"=1'-0"




NOTE: T-GRID TO BE DONN CORP. CROSS TEE : DX424 OR CHICAGO METALLIC CORP. .020 TEE GRID, 400 SERIES OR EQUAL.

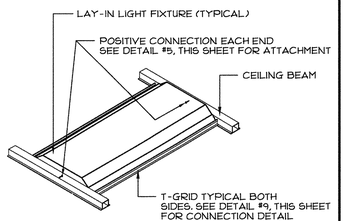
## 2 TYP. T-GRID SECTION

SCALE: FULL



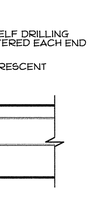

## 3 SUPPLY AIR REGISTER

SCALE: 1/2"=1'-0"



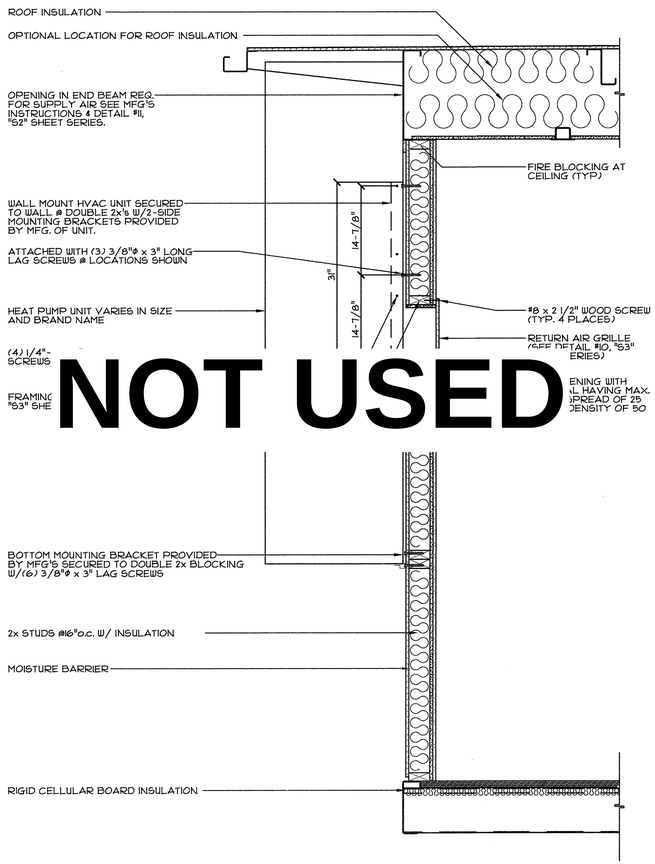

## 4 LAY-IN LIGHT FIXTURE

SCALE: 1/2"=1'-0"




## 5 LIGHT FIXTURE SUPPORT

SCALE: 3"=1'-0"




NOT USED

NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

## 7 HVAC UNIT WALL ATTACHMENT DETAIL

SCALE: 1"=1'-0"

~~SINGLE PACKAGE WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS 240-77. (U.L. LISTED) REFERENCE BRANDS: "BARD" S43H1-A, 3.5 TON, 10.5 EER, 3.2 COP (OR EQUAL)~~

~~WIRING AND CNTRS. INSTALLATION OF UNIT PER MANUFACTURER'S INSTRUCTIONS.~~
~~A) TWO SPEED OUTDOOR BLOWER MOTOR TO REDUCE INDOOR NOISE LEVEL.~~
~~B) AUX. HEAT - 5 KW HEAT STRIP~~
~~C) LOW TEMPERATURE OUTDOOR THERMOSTAT TO ASSURE CIRCUITING DURING THE HEATING MODE.~~
~~D) COOLING: 42000 BTUH, HEATING 37400 BTUH~~
~~E) WEIGHT: 510# MAX~~

~~AIR FILTERS:~~
~~MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 (CGBS 5.504.5.3) .~~
~~AN APPROVED TYPE TESTED IN ACCORDANCE WITH TEST METHODS SFM-12-71-AS SHOWN IN PART 12. TITLE 24 CALIFORNIA CODE OF REGULATIONS. PREFORMED FILTERS HAVING COMBUSTABLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER. AS DEFINED IN THE TEST METHOD ABOVE. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.~~

~~2. CONTROLS: (@ +48" MAXIMUM A.F.F.) - (TO TOP OF BOX)~~
~~THERMOSTAT: WHITE-ROGERS (1F85-275) DIGITAL (TAMPER PROOF) .~~
~~SYSTEM SHALL BE INSTALLED WITH AN OCCUPANCY SENSOR FOR SHUT-OFF~~

3. DUCTS: MAY BE CLASS "1" OR "0"
FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF U.M.C. STANDARDS NO. 6-1. EACH PORTION OF A FACTORY MADE AIR DUCT SYSTEM SHALL BE INDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE W/UMC STANDARD NO. 6-1 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THIER LISTING. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDING SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE 50 WHEN TESTED AS A COMPOSITE INSTALL-ATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVE AS NORMALLY APPLIED. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50

~~AND INSULATED AS REQUIRED BY CALIFORNIA ENERGY CODE .~~

4. COMBINED UNITS SUPPLYING GREATER THAN [illegible] CFM REQUIRES DUCT SMOKE DETECTOR FOR AUTO SHUT-DOWN. INTERCONNECT WITH FIRE ALARM SYSTEM C.M.C. UNLESS ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT [illegible]

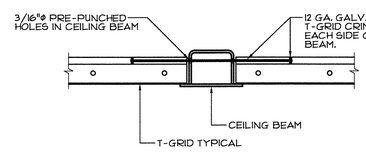
5. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.
DURING ROUGH INSTALLATION, DURING SHIPMENT OF RELOCATABLE , STORAGE ON CONSTRUCTION SITE, AND UNTIL FINAL STARTUP, ALL DUCTS OPEN ENDS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM (CGBS SEC. 5.504.3) .

6. EACH SPACE SHALL BE DESIGNED TO HAVE NATURAL VENTILATION OR MECHANICAL VENTILATION THAT IS NOT LESS THAN THE LARGER OF CONDITIONED FLOOR AREA TIMES THE REQUIREMENTS IN THE CALIFORNIA ENERGY CODE TABLE 120.1-A OR 15 TIMES THE EXPECTED NUMBER OF OCCUPANTS.

7. MECHANICAL SYSTEM ACCEPTANCE REQUIREMENTS.
THE FOLLOWING EQUIPMENT AND SYSTEMS SHALL BE CERTIFIED AS MEETING THE "ACCEPTANCE REQUIREMENTS FOR CODE COMPLIANCE" AS SPECIFIED BY THE REFERENCE NONRESIDENTIAL MANUAL APPENDIX NA7:
- OUTDOOR AIR VENTILATION SYSTEMS (NA7.5.1)
- CONSTANT VOLUME, SINGLE ZONE UNITARY A/C AND HEAT PUMP UNIT CONTROLS (NA7.5.2)

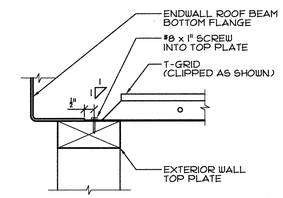
8. WHEN RESTROOM OPTIONS ARE USED, MECHANICAL EXHAUST SHALL BE PROVIDED PER 2016 C.M.C, TABLE 403.7.

## 8 HVAC SPECIFICATIONS




## 9 T-GRID CONNECTION DETAIL

SCALE: 3"=1'-0"




## 10 T-GRID CONNECTION DETAIL

SCALE: 3"=1'-0"

DIVISION OF THE STATE ARCHITECT

~~PRE-CHECK (PC) DOCUMENT~~
~~Code: 2016 CBC~~
~~A separate project application for construction is required.~~



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03/26/2020

REGISTERED PROFESSIONAL ENGINEER — ALTHEA GINNETT — No. 52030 — STATE OF CALIFORNIA — MECHANICAL

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CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

"EXTERIOR HVAC UNIT"
MECHANICAL & REFLECTED CEILING PLANS, HVAC WALL ATTACH., DETAILS, HVAC SPECIFICATIONS

| REV / DATE: | BY: |
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| | |

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02-118094
AC FLS SS
DATE 9-6-2018

24"x40" TO 120"x40" P.C.

A2

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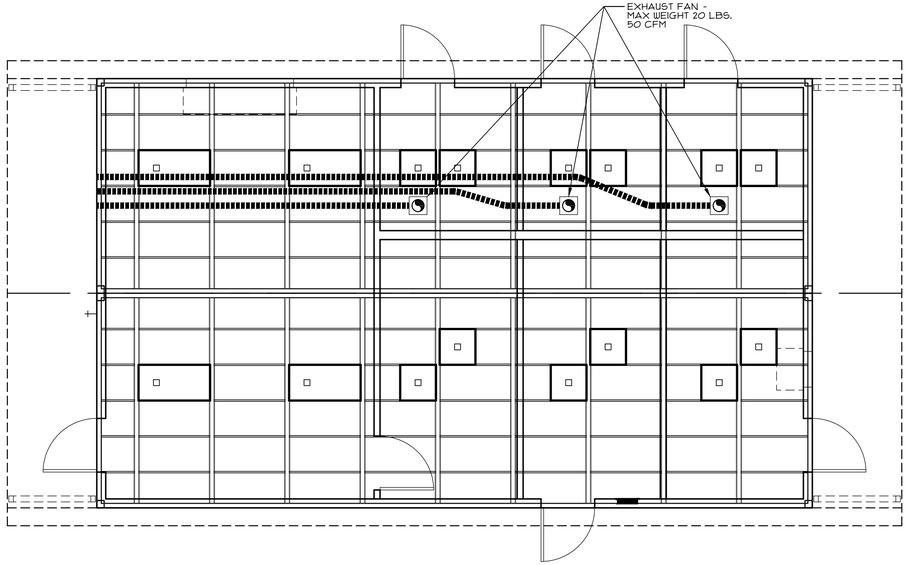


SEE PC 1/A2 FOR INFORMATION SHOWN BUT NOT NOTED

1 "EXTERIOR HVAC" MECHANICAL & REFLECTED CEILING PLAN

SCALE: 1/4"=1'-0"

2

3

4

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10

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DATE: 04/10/2020

CYS
STRUCTURAL ENGINEERS INC.
2415 Sawtelle Blvd., Suite 450
Sacramento, CA 95833
(916) 924-2007 (916) 924-1166 Fax
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03/26/2020

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSES
No. S2030
CIVIL
STATE OF CALIFORNIA

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CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

MECHANICAL &
REFLECTED CEILING PLANS

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|---|---|
| | |

| | |
|---|---|
| JOB No.: | 19-000 |
| DRAWN BY: | RS |
| DATE: | 12/17/2019 |



A2.1

# CAL-GREEN MANDATORY MEASURES

NOTE :
ONLY APPLICABLE CAL-GREEN MANDATORY MEASURES TO THE ENVIROPLEX MODULAR BUILDING ARE LISTED BELOW. FOR A COMPLETE LIST OF MEASURES REQUIRED FOR THE ENTIRE CONSTRUCTION PROJECT, REFER TO DSA DOCUMENT GL-4.

1. WATER CLOSETS.
THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.

2. URINALS.
THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED ~~ONE GALLON~~ ½ GALLON PER FLUSH FOR FLOOR MOUNTED, AND 0.125 GALLONS PER FLUSH FOR WALL MOUNTED URINALS.

3. INDOOR WATER USE:
LAVATORY FAUCETS - 0.5 GPM
KITCHEN FAUCETS - 2.2 GPM
GRAVITY TANK WATER CLOSET - 1.28 GAL/FLUSH
FLUSHOMETER TANK WATER CLOSET - 1.28 GAL/FLUSH
FLUSHOMETER VALVE WATER CLOSET - 1.28 GAL/FLUSH

4. EXTERIOR DOOR PROTECTION.
PRIMARY EXTERIOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO SUCH OPENINGS
PLUS AT LEAST ONE OF THE FOLLOWING:
1. AN INSTALLED AWNING AT LEAST 4 FEET IN DEPTH.
2. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
3. THE DOOR IS RECESSED AT LEAST 4 FEET.
4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.

5. CONSTRUCTION WASTE MANAGEMENT:
A MINIMUM OF 65% OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.

CONSTRUCTION WASTE MANAGEMENT PLAN SHALL:
1) IDENTIFY WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL.
2) DETERMINE OF WASTE MATERIALS WILL BE SORTED ON-SITE OR BULK MIXED.
3) IDENTIFY DIVERSION FACILITIES WHERE COLLECTED WASTE MATERIAL WILL BE TAKEN.
4) SPECIFY THE AMOUNT OF WASTE DIVERTED CALCULATED BY WEIGHT OR BY VOLUME.

UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL.

6. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.
AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY COLLECT IN THE SYSTEM.

7. CARPET SYSTEMS
ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET AT LEAST ONE OF THE TESTING AND PRODUCT REQUIREMENTS:
1. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.
2. COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC
CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010
(ALSO KNOWN AS CDPH STANDARD METHOD V1.1 OR SPECIFICATION 01350).
3. NSF/ANSI 140 AT THE GOLD LEVEL OR HIGHER;
4. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE; OR
5. COMPLIANT WITH THE CALIFORNIA COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CA-CHPS) CRITERIA AND
INTERPRETATION FOR EQ 4.2 DATED JULY 2012 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE.

8. CARPET CUSHION.
ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

9. CARPET ADHESIVE.
ALL DRY-BT ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.

10. COMPOSITE WOOD PRODUCTS.
HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDINGS SHALL MEET THE REQUIREMENTS FOR
FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.).
THOSE MATERIALS NOT EXEMPTED UNDER THE ATCM MUST MEET THE SPECIFIED EMISSION LIMITS, AS SHOWN IN TABLE
5.504.4.5.

# SOLAR READY REQUIREMENTS

A) MINIMUM SOLAR ZONE AREA BASED ON TOTAL ROOF AREA (NON-SHADED CONDITIONS) :
1) THE SOLAR ZONE MUST HAVE A TOTAL AREA THAT IS NO LESS THAN 15 PERCENT OF THE TOTAL ROOF AREA AFTER SUBTRACTING ANY AREA OF THE ROOF THAT IS COVERED BY A SKYLIGHT.
2) THE TOTAL AREA OF THE SOLAR ZONE MAY BE COMPOSED OF MULTIPLE SUB-AREAS. NO DIMENSION OF A SUB-AREA CAN BE LESS THAN FIVE FEET, EACH SUB-AREA MUST BE AT LEAST 80 SQUARE FEET.

B) SOLAR READY ROOF AREA REQUIREMENT PER BUILDING SIZE:

| | Roof Area | | | minimum solar |
|---|---|---|---|---|
| Building size | area (sf) | potential overhangs (sf) | total (sf) | zone area required (sf) |
| 24 x 40 | 960 | 240 | 1200 | 180 |
| 36 x 40 | 1440 | 360 | 1800 | 270 |
| 48 x 40 | 1920 | 480 | 2400 | 360 |
| 60 x 40 | 2400 | 600 | 3000 | 450 |
| 72 x 40 | 2880 | 720 | 3600 | 540 |
| 84 x 40 | 3360 | 840 | 4200 | 630 |
| 96 x 40 | 3840 | 960 | 4800 | 720 |
| 108 x 40 | 4320 | 1080 | 5400 | 810 |
| 120 x 40 | 4800 | 1200 | 6000 | 900 |

C) MINIMUM SOLAR ZONE AREA BASED ON POTENTIAL SOLAR ZONE (SHADED CONDITIONS) :
1) THE MINIMUM REQUIRED SOLAR ZONE AREA MAY BE REDUCED IF THE BUILDING SITE IS SHADED BY OBJECTS THAT ARE NOT PART OF THE BUILDING ITSELF AND THERE IS NO UN-SHADED AREA THAT COULD ACCOMMODATE THE FULL SOLAR ZONE.
2) THE POTENTIAL SOLAR ZONE IS DEFINED AS THE TOTAL AREA ON ROOF, OVERHANG, ROOF OR OVERHANG OF A STRUCTURE WITHIN 250 FEET OF THE BUILDING, OR ON A COVERED PARKING STRUCTURE INSTALLED WITH THE BUILDING THAT HAS ANNUAL SOLAR ACCESS OF 70 PERCENT OR GREATER.
3) IF THE POTENTIAL SOLAR ZONE IS SMALLER THAN 15 PERCENT OF THE ROOF AREA OF THE BUILDING EXCLUDING ANY SKYLIGHTS, THEN THE SOLAR ZONE CAN BE REDUCED TO HALF THE AREA OF THE POTENTIAL SOLAR ZONE. IF THE ROOF IS SHADED SUCH THAT THERE IS NO POTENTIAL SOLAR ZONE AREA, THEN NO SOLAR ZONE IS REQUIRED.

D) SOLAR ZONE ORIENTATION:
1) IF THE SOLAR ZONE IS LOCATED ON A STEEP-SLOPED ROOF WITH A RATIO OF RISE TO RUN OF GREATER THAN 2:12, THEN THE ROOF MUST BE ORIENTED BETWEEN 110 DEGREES AND 270 DEGREES OF TRUE NORTH.

2) IF A SOLAR ZONE IS LOCATED ON A LOW-SLOPED ROOF WITH A RATIO OF RISE TO RUN LESS THAN 2:12, THE ORIENTATION REQUIREMENTS DO NOT APPLY.

3) OBSTRUCTIONS SUCH AS VENTS, CHIMNEYS, ARCHITECTURAL FEATURES, OR ROOF MOUNTED EQUIPMENT CANNOT BE LOCATED IN THE SOLAR ZONE. THIS REQUIREMENT IS IN PLACE SO THE SOLAR ZONE REMAINS CLEAR AND OPEN FOR THE FUTURE INSTALLATION OF A SOLAR ENERGY SYSTEM.

E) ALTERNATIVE SOLAR ZONE LOCATION:
1) THE SOLAR ZONE CAN BE LOCATED AT ANY OF THE FOLLOWING LOCATIONS; ROOF OF ANOTHER STRUCTURE LOCATED WITHIN 250 FEET OF THE PRIMARY BUILDING. OVERHANG OF ANOTHER STRUCTURE WITHIN 250 FEET OF THE PRIMARY BUILDING, OR COVERED PARKING INSTALLED WITH THE BUILDING PROJECT.

F) SOLAR PANELS ARE NOT TO EXCEED 4.0 PSF AND ARE NOT TO OCCUR ON BUILDING OVERHANGS. SOLAR PANELS MUST BE INACCESSIBLE PER CBC 1607A.12.5. ~~AND~~ 1607.12.5.

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.# 02-118094 DATE 9-6-18

PRE-CHECK ( PC) DOCUMENT
Code: 2016 CBC
A separate project application for Construction is required.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST BOSS
No. S2030
STATE OF UTAH

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

GREEN BUILDING STANDARDS
AND SOLAR READY REQUIREMENTS

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
ACS ☑ FLS ☑ SS ☑
DATE 9-6-2018

AGB

24'X40' TO 120'X40' P.C.

| Project Name: | Standard 24x40 PC - 2016 code | NRCC-PRF-01-E | Page 1 of 19 |
|---|---|---|---|
| Project Address: | CZ 14 (reference city - Palmdale) | Calculation Date/Time: | 11:28, Fri, Jul 13, 2018 |
| Compliance Scope: | NewComplete | Input File Name: | R1 - 03-116094 - 24x40 PC (CZ 14 - Palmdale).cbd18x |

**A. PROJECT GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 1. | Project Location (city) | (reference city - Palmdale) | 8. | Standards Version | Compliance2016 |
| 2. | CA Zip Code | | 9. | Compliance Software (version) | EnergyPro 7.2 |
| 3. | Climate Zone | 14 | 10. | Weather File | PALMDALE_723830_CZ2010.epw |
| 4. | Total Conditioned Floor Area in Scope | 960 ft² | 11. | Building Orientation (deg) | (N) 30 deg |
| 5. | Total Unconditioned Floor Area | 0 ft² | 12. | Permitted Scope of Work | NewComplete |
| 6. | Total # of Stories (Habitable Above Grade) | 1 | 13 | Building Type(s) | Nonresidential |
| 7. | Total # of dwelling units | 0 | 14 | Gas Type | NaturalGas |

**B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)** — § 140.1

**BUILDING COMPLIES**

| 1. Energy Component | 2. Standard Design (TDV) | 3. Proposed Design (TDV) | 4. Compliance Margin (TDV) | 5. Percent Better than Standard |
|---|---|---|---|---|
| Space Heating | 21.62 | 39.50 | -17.18 | -79.5% |
| Space Cooling | 113.50 | 123.23 | -10.75 | -9.3% |
| Indoor Fans | 104.79 | 49.53 | 55.25 | 52.7% |
| Heat Rejection | -- | -- | -- | -- |
| Pumps & Misc. | -- | -- | -- | -- |
| Domestic Hot Water | 9.43 | 9.43 | -- | 0.0% |
| Indoor Lighting | 58.51 | 26.97 | 31.54 | 53.9% |
| COMPLIANCE TOTAL | 303.84 | 247.38 | 56.46 | 18.6% |
| Receptacle | 64.30 | 64.30 | 0.0 | 0.0% |
| Process | -- | -- | -- | -- |
| Other Ltg | -- | -- | -- | -- |
| Process Motors | -- | -- | -- | -- |
| TOTAL | 374.14 | 312.28 | 56.9 | 16.9% |



| Project Name: | Standard 24x40 PC - 2016 code | NRCC-PRF-01-E | Page 2 of 19 |
|---|---|---|---|
| Project Address: | CZ 14 (reference city - Palmdale) | Calculation Date/Time: | 11:28, Fri, Jul 13, 2018 |
| Compliance Scope: | NewComplete | Input File Name: | R1 - 03-116094 - 24x40 PC (CZ 14 - Palmdale).cbd18x |

**C. PRIORITY PLAN CHECK/ INSPECTION ITEMS** (In order of highest to lowest TDV energy savings)

| | | |
|---|---|---|
| 1st | Indoor Fans: Check envelope and mechanical | *Compliance Margin By Energy Component (from Table B column 4)* |
| 2nd | Indoor Lighting: Check lighting | Indoor Fans<br>Indoor Lighting<br>Heat Rejection<br>Pumps & Misc.<br>Domestic Hot Water<br>Space Cooling<br>Space Heating |
| 3rd | Heat Rejection: Check envelope and mechanical | |
| 4th | Pumps & Misc.: Check mechanical | |
| 5th | Domestic Hot Water: Check mechanical | |
| 6th | Space Cooling: Check envelope and mechanical | |
| 7th | Space Heating: Check envelope and mechanical | Penalty / Energy Credit |

**D. EXCEPTIONAL CONDITIONS**

The building does not include service water heating. Verify that service water heating is not required and is not indicated in the design.

The proposed Building claims credit for non-mandatory lighting control credits via Power Adjustment Factors (PAFs) as outlined in Standards Table 140.6-A. Review NRCC-PRF-LTI DETAILS Table A to ensure that credit is not claimed for mandatory controls.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

**E. HERS VERIFICATION**

This Section Does Not Apply

**F. ADDITIONAL REMARKS**

None Provided



| Project Name: | Standard 24x40 PC - 2016 code | NRCC-PRF-01-E | Page 3 of 19 |
|---|---|---|---|
| Project Address: | CZ 14 (reference city - Palmdale) | Calculation Date/Time: | 11:28, Fri, Jul 13, 2018 |
| Compliance Scope: | NewComplete | Input File Name: | R1 - 03-116094 - 24x40 PC (CZ 14 - Palmdale).cbd18x |

**G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY**

*Identify which building components use this performance or prescriptive path for compliance. "NA" = not in project*

*For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.*

| Building Component | Compliance Path | Compliance Forms (required for submittal) | Location of Mandatory Notes on Plans |
|---|---|---|---|
| Envelope | ☒ Performance | NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E) | A1N |
| | ☐ Prescriptive | NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E | |
| | ☐ NA | | |
| Mechanical | ☒ Performance | NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E) | 8/A2 |
| | ☐ Prescriptive | NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E | |
| | ☐ NA | | |
| Domestic Hot Water | ☐ Performance | NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E) | |
| | ☐ Prescriptive | NRCC-PLB-01-E | |
| | ☒ NA | | |
| Lighting (Indoor Conditioned) | ☒ Performance | NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E) | 8/A3.1 |
| | ☐ Prescriptive | NRCC-LTI-01 / 02 / 03 / 04 / 05-E | |
| | ☐ NA | | |
| Covered Process: Commercial Kitchens | ☐ Performance | 82 (section of the NRCC-PRF-01-E) | |
| | ☐ Prescriptive | NRCC-PRC-01/ 03-E | |
| | ☒ NA | | |
| Covered Process: Computer Rooms | ☐ Performance | 83 (section of the NRCC-PRF-01-E) | |
| | ☐ Prescriptive | NRCC-PRC-02/ 04-E | |
| | ☒ NA | | |
| Covered Process: Laboratory Exhaust | ☐ Performance | 84 (section of the NRCC-PRF-01-E) | |
| | ☐ Prescriptive | NRCC-PRC-01/ 03-E | |
| | ☒ NA | | |



**Performance Runs and Orientation Table**

**PC Design Review Information** — **Title 24, Part 6, Energy**

Date of Title 24 Report: 7/12/2018
Model Name and Option: 24x40 PC
Total Floor Area: 960
HVAC System Type: SPVHP

DSA Application: 02-116094
DSA File No: PC-012
DSA-1 Submittal Date:

| Climate Zone (Reference City) | Azimuth (Front Orientation) | TDV- Proposed Design | TDV- Standard Design | Compliance Margin |
|---|---|---|---|---|
| **14** (Palmdale) | 30 | 312.29 | 374.15 | 20.0 |
| | 75 | 313.29 | 377.32 | 20.5 |
| | 120 | 312.43 | 374.7 | 20.1 |
| | 165 | 310.5 | 374.0 | 20.5 |
| | 210 | 313.39 | 382.2 | 21.6 |
| | 255 | 315.09 | 386.15 | 22.1 |
| | 300 | 313.96 | 384.36 | 22.0 |
| | 345 | 310.9 | 374.65 | 20.5 |
| **15** (Palm Springs-Intl) | 30 | 350.61 | 426.96 | 21.3 |
| | 75 | 351.8 | 430.75 | 21.5 |
| | 120 | 351.66 | 428.73 | 21.1 |
| | 165 | 350.0 | 422.09 | 20.2 |
| | 210 | 352.13 | 428.14 | 20.9 |
| | 255 | 353.23 | 430.72 | 21.1 |
| | 300 | 352.22 | 428.64 | 21.0 |
| | 345 | 349.34 | 421.25 | 20.1 |
| **16** (Blue Canyon) | 30 | 291.6 | 358.13 | 22.7 |
| | 75 | 292.37 | 361.43 | 23.3 |
| | 120 | 291.54 | 358.17 | 22.7 |
| | 165 | 289.95 | 347.07 | 20.2 |
| | 210 | 292.37 | 355.21 | 21.6 |
| | 255 | 294.0 | 357.83 | 21.8 |
| | 300 | 293.09 | 355.84 | 21.5 |
| | 345 | 290.57 | 347.6 | 20.1 |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

STRUCTURA
Structural Engineering
6205 S. Main St.
Suite 1
(916) 388-0990 FAX 388-1889

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

| Project Name: | Standard 24x40 PC - 2016 code | NRCC-PRF-01-E | Page 4 of 19 |
|---|---|---|---|
| Project Address: | CZ 14 (reference city - Palmdale) | Calculation Date/Time: | 11:28, Fri, Jul 13, 2018 |
| Compliance Scope: | NewComplete | Input File Name: | R1 - 03-116094 - 24x40 PC (CZ 14 - Palmdale).cbd18x |

**G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY**

*The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.*

*The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.*

| Yes | NA | Prescriptive Requirement | Compliance Forms | Yes | NA | Mandatory Requirement | Compliance Forms |
|---|---|---|---|---|---|---|---|
| ☒ | ☐ | Lighting (Indoor Unconditioned) §140.6 | NRCC-LTI-01 / 02 / 03 / 04 / 05-E | ☒ ☐ | ☐ ☐ | Commissioning: §130.8 Simple Systems Complex Systems | NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E |
| ☒ | ☐ | Lighting (Outdoor) §140.7 | NRCC-LTO-01 / 02 / 03-E | ☐ | ☒ | Electrical: §130.5 | NRCC-ELC-01-E |
| ☐ | ☒ | Lighting (Sign) §140.8 | NRCC-LTS-01-E | ☒ | ☐ | Solar Ready §110.10 | NRCC-SRA-01 / 03-E |
| ☐ | ☒ | Solar Thermal Water Heating: §140.5 | NRCC-STH-01-E | ☐ ☐ ☐ ☐ ☐ | ☒ ☒ ☒ ☒ ☒ | Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers | NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E |



| Project Name: | Standard 24x40 PC - 2016 code | NRCC-PRF-01-E | Page 5 of 19 |
|---|---|---|---|
| Project Address: | CZ 14 (reference city - Palmdale) | Calculation Date/Time: | 11:28, Fri, Jul 13, 2018 |
| Compliance Scope: | NewComplete | Input File Name: | R1 - 03-116094 - 24x40 PC (CZ 14 - Palmdale).cbd18x |

**H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –**
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

**Confirmed**

| Building Component | Compliance Forms (required for submittal) | Pass | Fail |
|---|---|---|---|
| Envelope | ☒ NRCC-ENV-01-E - For all buildings | ☐ | ☐ |
| | ☒ NRCA-ENV-02-F- NFRC label verification for fenestration | ☐ | ☐ |
| Mechanical | ☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems | ☐ | ☐ |
| | ☒ NRCA-MCH-02-A- Outdoor Air | ☐ | ☐ |
| | ☒ NRCA-MCH-05-A – Constant Volume Single Zone HVAC | ☐ | ☐ |
| | ☐ NRCA-MCH-04-H- Air Distribution Duct Leakage | ☐ | ☐ |
| | ☐ NRCA-MCH-05-A- Air Economizer Controls | ☐ | ☐ |
| | ☐ NRCA-MCH-06-A- Demand Control Ventilation | ☐ | ☐ |
| | ☐ NRCA-MCH-07-A – Supply Fan Variable Flow Controls | ☐ | ☐ |
| | ☐ NRCA-MCH-08-A- Valve Leakage Test | ☐ | ☐ |
| | ☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls | ☐ | ☐ |
| | ☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls | ☐ | ☐ |
| | ☐ NRCA-MCH-11-A – Auto Demand Shed Controls | ☐ | ☐ |
| | ☐ NRCA-MCH-13-A- Packaged Direct Expansion Units | ☐ | ☐ |
| | ☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units | ☐ | ☐ |
| | ☐ NRCA-MCH-14-A- Distributed Energy Storage | ☐ | ☐ |
| | ☐ NRCA-MCH-15-A – Thermal Energy Storage | ☐ | ☐ |
| | ☐ NRCA-MCH-15-A- Supply Air Temp Reset Controls | ☐ | ☐ |
| | ☐ NRCA-MCH-17-A – Condensate Water Temp Reset Controls | ☐ | ☐ |
| | ☐ NRCA-MCH-18-A- Energy Management Controls Systems | ☐ | ☐ |
| | ☐ NRCV-MCH-04-H- Duct Leakage Test | ☐ | ☐ |



| Project Name: | Standard 24x40 PC - 2016 code | NRCC-PRF-01-E | Page 6 of 19 |
|---|---|---|---|
| Project Address: | CZ 14 (reference city - Palmdale) | Calculation Date/Time: | 11:28, Fri, Jul 13, 2018 |
| Compliance Scope: | NewComplete | Input File Name: | R1 - 03-116094 - 24x40 PC (CZ 14 - Palmdale).cbd18x |

**H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –**
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

**Confirmed**

| Building Component | Compliance Forms (required for submittal) | Pass | Fail |
|---|---|---|---|
| Plumbing | ☐ NRCI-PLB-01-E – For all buildings with Plumbing Systems | ☐ | ☐ |
| | ☐ NRCI-PLB-02-E – required on central systems in high-rise residential, hotel/motel applications. | ☐ | ☐ |
| | ☐ NRCI-PLB-03-E – Single dwelling unit systems in high-rise residential, hotel/motel applications. | ☐ | ☐ |
| | ☐ NRCI-PLB-21-E – HERS verified central systems in high-rise residential, hotel/motel application. | ☐ | ☐ |
| | ☐ NRCI-PLB-22-E – HERS verified single dwelling unit systems in high-rise residential, hotel/motel applications. | ☐ | ☐ |
| | ☐ NRCV-PLB-23-H- HERS verified central systems in high-rise residential, hotel/motel application. | ☐ | ☐ |
| | ☐ NRCV-PLB-23-H – HERS verified single dwelling unit systems in high-rise residential, hotel/motel application. | ☐ | ☐ |
| | ☐ NRCI-STH-01-E – Any solar water heating | ☐ | ☐ |
| Indoor Lighting | ☒ NRCI-LTI-01-E – For all buildings | ☐ | ☐ |
| | ☐ NRCI-LTI-02-E – Lighting control system, or for an Energy Management Control System (EMCS) | ☐ | ☐ |
| | ☐ NRCI-LTI-03-E – Line-voltage track lighting integral current limiter; or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting | ☐ | ☐ |
| | ☐ NRCI-LTI-04-E – Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater | ☐ | ☐ |
| | ☒ NRCI-LTI-05-E – Lighting Control Credit Power Adjustment Factor (PAF) | ☐ | ☐ |
| | ☐ NRCI-LTI-06-E – Additional wattage installed in a video conferencing studio | ☐ | ☐ |
| | ☒ NRCA-LTI-03-A – Occupancy sensors and automatic time switch controls. | ☐ | ☐ |
| | ☒ NRCA-LTI-04-A – Automatic daylighting controls | ☐ | ☐ |
| | ☐ NRCA-LTI-04-A – Demand responsive lighting controls | ☐ | ☐ |
| Outdoor Lighting | ☒ NRCI-LTO-01-E – Outdoor Lighting | ☐ | ☐ |
| | ☒ NRCI-LTO-02-E- EMCS Lighting Control System | ☐ | ☐ |
| | ☒ NRCA-LTO-03-A – Outdoor Lighting Control | ☐ | ☐ |
| Sign Lighting | ☐ NRCI-LTS-01-E – Sign Lighting | ☐ | ☐ |
| Electrical | ☐ NRCI-ELC-01-E – Electrical Power Distribution | ☐ | ☐ |
| Photovoltaic | ☐ NRCI-EPV-01-E Photovoltaic Systems | ☐ | ☐ |



**Performance Runs and Orientation Table**

**PC Design Review Information** — **Title 24, Part 6, Energy Code**

Date of Title 24 Report: 7/13/2018
Model Name and Option: 120x40 PC
Total Floor Area: 4800
HVAC System Type: SPVHP

DSA Application: 02-116094
DSA File No: PC-012
DSA-1 Submittal Date:

| Climate Zone (Reference City) | Azimuth (Front Orientation) | TDV- Proposed Design | TDV- Standard Design | Compliance Margin |
|---|---|---|---|---|
| **14** (Palmdale) | 30 | 299.43 | 355.42 | 19.2 |
| | 75 | 302.13 | 360.86 | 19.8 |
| | 120 | 300.07 | 356.5 | 19.3 |
| | 165 | 296.98 | 354.58 | 19.8 |
| | 210 | 300.61 | 363.39 | 21.0 |
| | 255 | 303.88 | 369.05 | 21.4 |
| | 300 | 301.49 | 365.24 | 21.2 |
| | 345 | 297.22 | 346.69 | 17.5 |
| **15** (Palm Springs-Intl) | 30 | 338.28 | 406.09 | 19.8 |
| | 75 | 341.38 | 412.55 | 20.4 |
| | 120 | 340.06 | 408.67 | 19.9 |
| | 165 | 336.84 | 398.84 | 18.5 |
| | 210 | 339.96 | 405.8 | 19.3 |
| | 255 | 343.0 | 410.87 | 19.6 |
| | 300 | 340.74 | 406.91 | 19.3 |
| | 345 | 336.14 | 397.78 | 18.5 |
| **16** (Blue Canyon) | 30 | 277.58 | 337.65 | 22.0 |
| | 75 | 279.57 | 343.98 | 23.0 |
| | 120 | 277.85 | 338.03 | 22.0 |
| | 165 | 275.44 | 326.63 | 19.5 |
| | 210 | 278.38 | 334.83 | 20.9 |
| | 255 | 281.12 | 340.48 | 21.5 |
| | 300 | 279.33 | 335.64 | 20.8 |
| | 345 | 275.98 | 327.06 | 19.5 |

ENVIROPLEX, INC.
CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

ENERGY COMPLIANCE
CLIMATE ZONES 1-16

| Project Name: | Standard 24x40 PC - 2016 code | NRCC-PRF-01-E | Page 7 of 19 |
|---|---|---|---|
| Project Address: | CZ 14 (reference city - Palmdale) | Calculation Date/Time: | 11:28, Fri, Jul 13, 2018 |
| Compliance Scope: | NewComplete | Input File Name: | R1 - 03-116094 - 24x40 PC (CZ 14 - Palmdale).cbd18x |

**H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –**
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

**Confirmed**

| Building Component | Compliance Forms (required for submittal) | Pass | Fail |
|---|---|---|---|
| Covered Process | ☐ NRCI-PRC-01-E Covered Processes | ☐ | ☐ |
| | ☐ NRCA-PRC-01-F- Compressed Air Systems | ☐ | ☐ |
| | ☐ NRCA-PRC-02-F- Kitchen Exhaust | ☐ | ☐ |
| | ☐ NRCA-PRC-03-F- Garage Exhaust | ☐ | ☐ |
| | ☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls | ☐ | ☐ |
| | ☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls | ☐ | ☐ |
| | ☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls | ☐ | ☐ |
| | ☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor | ☐ | ☐ |
| | ☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System | ☐ | ☐ |

**I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)**

| | | | | | | Confirmed | |
|---|---|---|---|---|---|---|---|
| 1. | Total Conditioned Floor Area | 960 ft² | 5. | Number of Floors Above Grade | 1 | | |
| 2. | Total Unconditioned Floor Area | 0 ft² | 6. | Number of Floors Below Grade | 0 | | |
| 3. | Addition Conditioned Floor Area | 0 ft² | | | | Pass | Fail |
| 4. | Addition Unconditioned Floor Area | 0 ft² | | | | | |

| 7. Opaque Surfaces & Orientation | 8. Total Gross Surface Area | 9. Total Fenestration Area | 10. Window to Wall Ratio | Pass | Fail |
|---|---|---|---|---|---|
| North Wall | 216 ft² | 32 ft² | 14.8% | ☐ | ☐ |
| East Wall | 360 ft² | 0 ft² | 00.0% | ☐ | ☐ |
| South Wall | 216 ft² | 32 ft² | 14.8% | ☐ | ☐ |
| West Wall | 360 ft² | 0 ft² | 00.0% | ☐ | ☐ |
| Total: | 1,152 ft² | 64 ft² | 05.6% | ☐ | ☐ |
| Roof | 960 ft² | 0 ft² | 00.0% | ☐ | ☐ |



| Project Name: | Standard 24x40 PC - 2016 code | NRCC-PRF-01-E | Page 8 of 19 |
|---|---|---|---|
| Project Address: | CZ 14 (reference city - Palmdale) | Calculation Date/Time: | 11:28, Fri, Jul 13, 2018 |
| Compliance Scope: | NewComplete | Input File Name: | R1 - 03-116094 - 24x40 PC (CZ 14 - Palmdale).cbd18x |

**J. FENESTRATION ASSEMBLY SUMMARY** — § 110.6 — **Confirmed**

| 1. Fenestration Assembly Name / Tag or I.D. | 2. Fenestration Type / Product Type / Frame Type | 3. Certification Method[1] | 4. Assembly Method | 5. Area ft² | 6. Overall U-factor | 7. Overall SHGC | 8. Overall VT | 9. Exterior Shade[2] | Pass | Fail |
|---|---|---|---|---|---|---|---|---|---|---|
| Low E - AW | Vertical Fenestration Operable/Window N/A | NFRC Rated | Manufactured | 64 | 0.65 | 0.30 | 0.50 | N | ☐ | ☐ |

[1] Newly installed fenestration shall have a certified NFRC label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for fin glass only, determined by the manufacturer, and are chosen for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A – Altered, E – Existing

| Tabling compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information) | No |
|---|---|

**K. OPAQUE SURFACE ASSEMBLY SUMMARY** — § 130.7/ § 140.3 — **Confirmed**

| 1. Surface Name | 2. Surface Type | 3. Area (ft²) | 4. Framing Type | 5. Cavity R-Value | 6. Continuous R-Value | 7. U-Factor / F-Factor / C-Factor | 8. Exterior Shade[1] | Pass | Fail |
|---|---|---|---|---|---|---|---|---|---|
| R-19 Metal Roof - ENVS | Roof | 960 | Metal | 19 | NA | U-Factor: 0.068 | N | ☐ | ☐ |
| R-13 Wall - ENV MD07 | Exterior/Wall | 1153 | Wood | 13 | NA | U-Factor: 0.093 | N | ☐ | ☐ |
| 2 Polyisocyanurate - R16 | Exterior/Floor | 960 | Metal | 19 | NA | U-Factor: 0.066 | N | ☐ | ☐ |

[1] Status: N – New, A – Altered, E – Existing

**L. ROOFING PRODUCT SUMMARY** — § 140.3 — **Confirmed**

| 1. Product Type | 2. Product Details (lb/ft²) | 3. Aged Solar Reflectance | 4. Thermal Emittance | 5. SRI | 6. Cool Roof Credit | 7. Roofing Product Description | Pass | Fail |
|---|---|---|---|---|---|---|---|---|
| R-19 Metal Roof - ENVS | 5.208 | 0.08 | 0.75 | NA | No | NA | ☐ | ☐ |



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**M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)** — § 110.1 / § 110.2

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

| 1. Equip Name | 2. Equip Type | 3. System Type (Simple [2] or Complex [3]) | 4. Qty | 5. Total Heating Output (kBtu/h) | 6. Supp Heat Source (Y/N) | 7. Supp Heat Output (kBtuh) | 8. Total Cooling Output (kBtu/h) | 9. Efficiency: Cooling | 9. Efficiency: Heating | 10. Acceptance Testing Required? (Y/N) [4] | 11. Status[5] | Confirmed: Pass | Confirmed: Fail |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benz 3.5 ton | SPVHP (Packaged/Phase) | Simple | 1 | 40 | Yes | 17 | 39 | EER-10.50 | COP-3.20 | Yes | N | ☐ | ☐ |

[1] Dry System Equipment includes furnaces, air handling units, fans pumps, etc.
[2] Simple Systems must complete NRCC-MCH-04-E commissioning design review form
[3] Complex Systems must complete NRCC-MCH-04-E commissioning design review form
[4] A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS
[5] Status: N – New, A – Altered, E – Existing

| Wet System Equipment Section Does Not Apply | |
|---|---|
| Discrepancy between modeled and designed equipment ratings? (If "Yes", see Table F, "Additional Remarks" for an explanation) | No |

**N. ECONOMIZER & FAN SYSTEMS SUMMARY[1]** — § 140.4 — **Confirmed**

| 1. Equip Name | 2. Outside Air | 3. Supply Fan: CFM | HP | BHP | TSP (inch WC) | Control | 4. Return Fan: CFM | HP | BHP | TSP (inch WC) | Control | 5. Economizer Type (if present) | Pass | Fail |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benz 3.5 ton | 380 | 1280 | 0.411 | 0.411 | 1.04 | ConstantVolume | NA | NA | NA | NA | NA | NoEconomizer | ☐ | ☐ |

[1] Mechanical ventilation exhaust fans and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

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DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.# 02-116094 DATE 9-30-18

PRE CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
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DATE:

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02-116094
ACCESS — FLS — ES/SC
DATE 9-6-2018

24"x40" TO 120"x40" P.C.

EN1



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**O. EQUIPMENT CONTROLS** § 120.2 — Confirmed: Pass ☐ Fail ☐

| 1. Equip Name | 2. Equip Type | 3. Controls |
|---|---|---|
| Bard 3.5 ton | SPVHP | No DCV Controls<br>No Economizer<br>No Supply Air Temp. Control<br>No Optimum Start<br>No Evaporative Cooler<br>No Heat Recovery |

**P. SYSTEM DISTRIBUTION SUMMARY** § 120.4/ § 140.4(l)

| City System Distribution | | | | | | | Confirmed | |
|---|---|---|---|---|---|---|---|---|
| 1. Equip Name | 2. Equip Type | 3. Duct Leakage and Sealing Required per 140.4(l) | 4. Duct Leakage will be verified per RA3 and RA2 | 5. Ducts: Insulation R-Value | 5. Ducts: Location | 6. Status[1] | Pass | Fail |
| Bard 3.5 ton | SPVHP | No | No | 8 | Conditioned | N | ☐ | ☐ |

[1] Status: N = New, E = Existing

| | |
|---|---|
| Does the Project include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information) | No |
| Does the Project include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information) | No |
| Multifamily or Hotel/ Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information) | No |

**Q. INDOOR CONDITIONED LIGHTING GENERAL INFO** (see NRCC-PRF-LTI-DETAILS for more info)[1] § 140.6 — Confirmed: Pass ☐ Fail ☐

| 1. Occupancy Type [1] | 2. Conditioned Floor Area [1] (ft²) | 3. Installed Lighting Power (Watts) | 4. Lighting Control Credits (Watts) | 5. Additional (Custom) Allowance: Area Category Footnotes (Watts) | 5. Additional (Custom) Allowance: Tailored Method (Watts) |
|---|---|---|---|---|---|
| Classrooms, Lecture, Training, Vocational Areas | 960 | 590 | 59 | 0 | 0 |
| Building Totals: | 960 | 590 | 59 | 0 | 0 |

[1] See Table 140.6-C



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[1] See NRCC-LTI-01-E for accessible spaces
[2] Lighting information for existing spaces modeled is not included in the table

**R. INDOOR CONDITIONED LIGHTING SCHEDULE** (Adapted from NRCC-LTI-01-E)[1] § 130.0 — Confirmed: Pass ☐ Fail ☐

Luminaire Schedule (Includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

| Name or Item Tag | Installed Watts (Conditioned): Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per luminaire | How Wattage is Determined: CEC Default from RA8 | How Wattage is Determined: According to §130.2(c) | Total Number Luminaires | Installed Watts |
|---|---|---|---|---|---|---|
| A | (8) 4 Ft LED 32T, 4 SOL | 59 | No | Yes | 10 | 590 |

[1] Lighting cover durables were used in the compliance model Building Deartments will need to check prescriptive forms for luminaire dirtability details.

**S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES** § 140.9
This Section Does Not Apply

**S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS** § 140.9
This Section Does Not Apply

**S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS** § 140.9
This Section Does Not Apply

**S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS** § 140.9
This Section Does Not Apply

**T. UNMET LOAD HOURS**
This Section Does Not Apply

**U. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | -- | 2.2 | -- | 13.4 | -- | -- |
| Space Cooling | 2.7 | 2.9 | -0.2 | -- | -- | -- |



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**U. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Indoor Fans | 4.4 | 2.0 | 2.4 | -- | -- | -- |
| Heat Rejection | -- | -- | -- | -- | -- | -- |
| Pumps & Misc. | -- | -- | -- | -- | -- | -- |
| Domestic Hot Water | -- | -- | -- | 0.3 | 0.3 | 0.0 |
| Indoor Lighting | 2.4 | 1.1 | 1.3 | -- | -- | -- |
| COMPLIANCE TOTAL | 9.5 | 8.2 | 1.3 | 18.7 | 6.3 | 12.4 |
| Receptacle | 2.5 | 2.5 | 0.0 | -- | -- | -- |
| Process | -- | -- | -- | -- | -- | -- |
| Other Log | -- | -- | -- | -- | -- | -- |
| Process Motors | -- | -- | -- | -- | -- | -- |
| TOTAL | 12.0 | 10.7 | 1.3 | 18.7 | 6.3 | 12.4 |



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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT** § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

| | |
|---|---|
| Documentation Author Name: Luis Esquivel | |
| Company: Enviroplex, Inc. | Signature: |
| Address: 4777 E. Carpenter Road | Signature Date: 7/16/2018 |
| City/State/Zip: Stockton CA 95215 | CEA Identification (If Applicable): |
| Phone: (209) 466-8000 | |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 3557.3 or 5787.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

| | | |
|---|---|---|
| Responsible Envelope Designer Name: Luis Esquivel | Signature: | |
| Company: Enviroplex, Inc. | | |
| Address: 4777 E. Carpenter Road | Date Signed: 7/16/2018 | |
| City/State/Zip: Stockton CA 95215 | Declaration Statement Type: 2 | |
| Phone: (209) 466-8000 | Title: | License #: 640557 |
| Responsible Lighting Designer Name: Luis Esquivel | Signature: | |
| Company: Enviroplex, Inc. | | |
| Address: 4777 E. Carpenter Road | Date Signed: 7/16/2018 | |
| City/State/Zip: Stockton CA 95215 | Declaration Statement Type: 2 | |
| Phone: (209) 466-8000 | Title: | License #: 640557 |
| Responsible Mechanical Designer Name: Luis Esquivel | Signature: | |
| Company: Enviroplex, Inc. | | |
| Address: 4777 E. Carpenter Road | Date Signed: 7/16/2018 | |
| City/State/Zip: Stockton CA 95215 | Declaration Statement Type: 2 | |
| Phone: (209) 466-8000 | Title: | License #: 640557 |



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**NRCC-PRF-ENV-DETAILS -SECTION START-**

**A. OPAQUE SURFACE ASSEMBLY DETAILS** — Confirmed: Pass ☐ Fail ☐

| 1. Surface Name | 2. Surface Type | 3. Description of Assembly Layers | 4. Notes |
|---|---|---|---|
| R-19 Metal Roof - ENVS | Roof | Metal Standing Seam - 1/16 in.<br>Roofing felt - 1/8 in.<br>Plywood - 5/8 in.<br>Metal framed roof, 24in. OC, 7.25in., R-19<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>Acoustic Tile - 1/2 in. | |
| R-13 Wall - ENV MD07 | ExteriorWall | Wood siding - 1/2 in.<br>Building Paper - 1/16 in.<br>Wood framed wall, 16in. OC, 3.5in., R-13<br>Gypsum Board - 1/2 in.<br>Acoustic Tile - 1/2 in. | |
| 2 Polyisocyanurate - (R15 | ExteriorRoof | Air - Floor - 1 1/2 in.<br>Metal framed floor, 24in. OC, 5.5in., R-19<br>Plywood - 1 1/4 in.<br>Carpet - 3/4 in. | |

**B. OVERHANG DETAILS** (Adapted from NRCC-ENV-02-E) — Confirmed: Pass ☐ Fail ☐

| 1. Fenestration Tag/ID | 2. Fenestration Orientation | 3. Overhang Dimensions: Horizontal Projection | 3. Overhang Dimensions: Distance Above Window | 4. Side fin: Vertical Projection |
|---|---|---|---|---|
| 338 | North | 2.5 ft. | 2.0 ft. | Left: 0 ft., Right: 0 ft. |
| 3213 | South | 2.5 ft. | 2.0 ft. | Left: 0 ft., Right: 0 ft. |

**C. OPAQUE DOOR SUMMARY** — Confirmed: Pass ☐ Fail ☐

| 1. Opaque Door Assembly Name / Tag or I.D. | 2. Door Type | 3. Certification Method | 4. Operation | 5. Area | 6. Overall U-factor | 7. Status[1] |
|---|---|---|---|---|---|---|
| Hollow Metal Door10 | MetalUninsulatedDoubleLayerDoor | DefaultPerformance | Swinging | 21 | 0.700 | N |

[1] Status: N = New, A = Altered, E = Existing



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**NRCC-PRF-MCH-DETAILS -SECTION START-**

**A. MECHANICAL VENTILATION AND RSHEAT** (Adapted from 2018-NRCC-MCH-03-E) — Confirmed: Pass ☐ Fail ☐

| CONDITIONED ZONE NAME | 1. DESIGN AIR FLOWS: MECHANICAL VENTILATION SYSTEM ID | 1. DESIGN AIR FLOWS: MECHANICAL VENTILATION SYSTEM TYPE | 1. DESIGN AIR FLOWS: OUTDOOR AIR INTAKE (CFM) | 1. DESIGN AIR FLOWS: EXHAUST AIR INTAKE (CFM) | 1. DESIGN AIR FLOWS: MECHANICAL VENTILATION (CFM) | 1. DESIGN AIR FLOWS: HEAT RECOVERY EFFECTIVENESS | 1. DESIGN AIR FLOWS: HEAT RECOVERY TYPE | 1. DESIGN AIR FLOWS: DCV CONTROLLED | 2. VENTILATION (§ 120.1): VENT. SCHEDULE ID | 2. VENTILATION (§ 120.1): CONDITIONED FLOOR AREA (SQ.FT.) | 2. VENTILATION (§ 120.1): MIN. VENT. RATE (CFM) | 2. VENTILATION (§ 120.1): OCCUPANT DENSITY (#/1000 SQ.FT.) | 2. VENTILATION (§ 120.1): MIN. VENT. RATE (CFM/PERSON) | 2. VENTILATION (§ 120.1): OUTDOOR AIR INTAKE (CFM) | 2. VENTILATION (§ 120.1): EXHAUST AIR INTAKE (CFM) | 2. VENTILATION (§ 120.1): TRANSFER AIR INTAKE (CFM) | 2. VENTILATION (§ 120.1): DCV CONTROL | 2. VENTILATION (§ 120.1): Complies with § 120.1(c)3 Ventilation Rules | Pass | Fail |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Classroom | Bard 3.5 ton | 1,200 | NA | NA | NA | NA | N | Bard 3.5 ton | 960 | NA | 34.00 | 15.00 | 510 | 360 | NA | N | N | ☐ | ☐ |
| | | | | | | | | TOTAL | 960 | | 34.00 | | 510 | 360 | NA | | | ☐ | ☐ |

**B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY** § 140.4 — Confirmed: Pass ☐ Fail ☐

| 1. System ID | 2. System Type | 3. Qty | 4. Rated Capacity (kBtu/h): Heating | 4. Rated Capacity (kBtu/h): Cooling | 5. Economizer | 6. Zone Name | 7. Airflow (cfm): Design | 7. Airflow (cfm): Min. | 7. Airflow (cfm): Min. Ratio | 8. Fan: BHP | 8. Fan: Cycles | 8. Fan: ECM Motor | Pass | Fail |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Classroom-Trm | Uncontrolled | 1 | NA | NA | NA | 1-Classroom | 1200 | NA | NA | NA | NA | ☐ | ☐ | ☐ |

**C. EXHAUST FAN SUMMARY**
This Section Does Not Apply

**D. DHW EQUIPMENT SUMMARY** – (Adapted from NRCC-PLB-01)
This Section Does Not Apply



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**E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS**
This Section Does Not Apply

**F. SOLAR HOT WATER HEATING SUMMARY** (Adapted from NRCC-STH-01)
This Section Does Not Apply

**G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS** (Adapted from 2016-NRCC-MCH-01-E) § RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in Field for Field Inspector to verify).

| Test Description | # of units | MCH-03A Outdoor Air | MCH-04A Single-Zone Unitary | MCH-05A Air Dist. Ducts | MCH-06A Economizer Controls | MCH-07A DCV | MCH-08A Supply Fan VSD | MCH-09A Valve Isolation | MCH-10A Supply Water Temp. Reset | MCH-11A PHP, Variable Flow Control | MCH-12A Auto Demand Shed Control | MCH-13A FDD for CAV Units | MCH-14A Auto FDD for AV Air Handler | MCH-15A DX Coil Condenser Air Flow | MCH-16A TXV Installed | MCH-17A Supply Air Temp. Reset | MCH-18A Condenser Water Reset Controls | MCH-19A ECMS | Confirmed: Pass | Confirmed: Fail |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bard 3.5 ton | 1 | X | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ☐ | ☐ |

**H. EVAPORATIVE COOLER SUMMARY**
This Section Does Not Apply



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**NRCC-PRF-LTI-DETAILS -SECTION START-**

**A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E)** § 140.6

| Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A): Location in Building | Occupancy Type (must meet requirements of Table 140.6-A) | Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.) | # of Units | Control Credit Calculation: Watts of Controlled Lighting | Control Credit Calculation: Power Adjustment Factor | Control Credit Calculation: Control Credit Watts | V If Acceptance Test Required | Confirmed: Pass | Confirmed: Fail |
|---|---|---|---|---|---|---|---|---|---|
| 5-1-Classroom | Classrooms, Lecture, Training, Vocational Areas | DaylightDimmingPlusOff | 1 | | 0.10 | 59 | X | ☐ | ☐ |

**B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)** § 130.1
This Section Does Not Apply
Adult Sites = Manual Area Control: §130.1(b) • Multi Level: §130.1(b) • Auto Multi-Off: §130.1(b) • Shutdown Controls: §130.1(b) • Demand Responsive

**C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)** § 140.6

| | |
|---|---|
| General lighting power (see Table D) | 0 |
| General lighting power from special function areas (see Table E) | NA |
| Additional "use it or lose it" (See Table G) | 0 |
| Total Watts | 0 |

**D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E)** § 140.6-D
This Section Does Not Apply

**E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E)** § 140.6(c) SH — Confirmed: Pass ☐ Fail ☐

| Room Number | Primary Function Area | Illuminance Value (LUX) | Room Cavity Ratio (7::Sre 6) | Allowed LPD | Floor Area (ft²) | Allowed Watts |
|---|---|---|---|---|---|---|
| NA | NA | NA | NA | NA | NA | NA |

Note: Tailored Method for Special Function Areas is not currently implemented



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**F. ROOM CAVITY RATIO** (Adapted from NRCC-LTI-04-E)

Rectangular Spaces

| Room Number | Task/Activity Description | Room Length (ft) | Room Width (ft) | Room Cavity Height (ft) | RCR | Confirmed: Pass | Confirmed: Fail |
|---|---|---|---|---|---|---|---|
| NA | NA | NA | NA | NA | NA | ☐ | ☐ |

**Non-Rectangular Spaces**
This Section Does Not Apply
Note: All applicable spaces are listed under the Non-Rectangular Spaces table

**G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)** — Confirmed: Pass ☐ Fail ☐

| 1. Wall Display | 2. Combined Floor Display and Task Lighting | 3. Combined Ornamental and Special Effects Lighting | 4. Very Valuable Merchandise | Allowed Watts |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |

**B. Wall Display**
This Section Does Not Apply

**B. Floor Display and Task Lighting**
This Section Does Not Apply

**7. Combined Ornamental and Special Effects Lighting**
This Section Does Not Apply

**8. Very Valuable Merchandise**
This Section Does Not Apply



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DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER — LUIS ESQUIVEL — No. S2030 — STRUCTURAL — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

ENERGY COMPLIANCE
CLIMATE ZONES 1-16

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
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DATE:

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APP # 02-116094 DATE 8.20.18

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| | | | |
|---|---|---|---|
| Project Name: | Standard 24x40 PC - 2016 code | NRCC-PRF-01-E | Page 19 of 19 |
| Project Address: | CZ 14 (reference city - Palmdale) | Calculation Date/Time: | 11:28, Fri, Jul 13, 2018 |
| Compliance Scope: | NewComplete | Input File Name: | R1 - 02-118094 - 24x40 PC (CZ 14 - Palmdale).cbd16x |

**H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-03-E and NRCC-LTO-01-E)** § 130.4

**Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in this field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).**

| Test Description | | Indoor | | | Outdoor | Confirmed | |
|---|---|---|---|---|---|---|---|
| | | NRCA-LTI-02-A | NRCA-LTI-03-A | NRCA-LTI-04-A | NRCA-LTO-02-A | | |
| Equipment Requiring Testing or Verification | # of units | Occ Sensors / Auto Time Switch | Auto Daylight | Demand Responsive | Outdoor Controls | Plans | ISR |
| Occupant Sensors | 1 | ☒ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Automatic Time Switch | 0 | ☒ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Automatic Daylighting | 1 | ☐ | ☒ | ☐ | ☐ | ☐ | ☐ |
| Demand Responsive | 0 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Outdoor Controls | 1 | ☐ | ☐ | ☐ | ☒ | ☐ | ☐ |



STATE OF CALIFORNIA
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| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-E |
| *This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.1, §140.6, and §141.0(b)2i for indoor lighting scopes using the prescriptive path.* | |
| Project Name: Standard 24x40 PC | Report Page: Page 1 of 6 |
| Project Address: CZ 14 | Date Prepared: 7/13/2018 |

**A. GENERAL INFORMATION**

| | | | |
|---|---|---|---|
| 01 Project Location (city) | (reference city - Palmdale) | 04 Total Conditioned Floor Area (ft²) | 960 |
| 02 Climate Zone | 14 | 05 Total Unconditioned Floor Area (ft²) | 0 |
| 03 (Occupancy Types Within Project (select all that apply): | | 06 # of Stories (Habitable Above Grade) | 1 |

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☑ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☑ Relocatable ☐ Other (write in):

**B. PROJECT SCOPE**

*Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".*

| Scope of Work | Conditioned Spaces | | Unconditioned Spaces | |
|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 |
| My Project Consists of (check all that apply): | Calculation Method | Area (ft²) | Calculation Method | Area (ft²) |
| ☑ New Lighting System | Complete Building | 960 | Complete Building | 0 |
| ☐ Altered Lighting System | | | | |
| Total Area of Work (ft²): | 960 | | 0 | |

**C. COMPLIANCE RESULTS**

*Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.*

| Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1 | Allowed Lighting Power per §140.6(b) (Watts) | | | | | | Actual Lighting Power per §140.6(a) (Watts) | | | | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 02 | 03 | 04 | 05 | | 06 | 07 | 08 | | 09 | 10 |
| | Complete Building §140.6(c)1 (See Table I) | Area Category §140.6(c)2 (See Table I) | Area Category Footnotes §140.6(c)2G (+) (See Table K) | Tailored §140.6(c)3 (+) (See Table L) | Total Allowed (Watts) | | Total Designed (Watts) (See Table F) | Adjustments: Portable Lighting §140.6(a) (-) (See Table J) | PAF Control Credits §140.6(a)2 (-) (See Table R) | | Total Actual (Watts) *Includes Adjustments | 05 Must be ≥ 09 §140.6 |
| Conditioned: | 1,344 | | | | = 1,344 | ≥ | 590 | | 59 | = | 531 | COMPLIES |
| Unconditioned: | | | | | = | ≥ | | | | = | | |
| Controls Compliance (See Table H for Details) | | | | | | | | | | | | COMPLIES |
| Rated Power Reduction Compliance (See Table S for Details) | | | | | | | | | | | | Not Applicable |



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**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with unedittable comments because of selections made or data entered in tables throughout the form.*

No exceptional conditions apply to this project.

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

**F. INDOOR LIGHTING FIXTURE SCHEDULE**

*Table Instructions: Include all permanent designed lighting and all portable lighting in offices.*

| 01 | 02 | 03 | | 04 | 05 | 06 | 07 | 08 | 09 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Specialized Luminaire Types: Track | Specialized Luminaire Types: Portable | Watts per luminaire[1] | How Wattage is determined | Total number luminaires | Exempt per §140.6(a)3 | Design Watts | Field Inspector: Pass | Field Inspector: Fail |
| A | (3) 4 ft LED 2ßTL 4 60L | | | 59 | MFr. Spec[1] | 10 | | 590 | | |
| | | | | | | Total Designed Watts CONDITIONED SPACES: | | 590 | | |

*[1]NOTE: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0[c]. Wattage used must be the maximum rated for the luminaire, not the lamp.*

**G. TRACK LIGHTING**

*This Section Does Not Apply*

**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

*Table Instructions:*
*Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Area Level Controls

| Building Level Controls | | |
|---|---|---|
| 01 | 02 | 03 |
| Mandatory Demand Response §130.1(e) | Shut-off Controls §130.1(c) | Field Inspector: Pass / Fail |
| Not Required < 10,000 SF | See Area Level Controls | |

Table Continued



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| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
|---|---|---|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Area Controls §130.1(a) | Multi-Level Controls §130.1(b) | Shut-Off Controls §130.1(c) | Primary/Skylit Daylighting §130.1(d) | Secondary Daylighting §140.6(d) | Interlocked Systems §140.6(a)1 | Field Inspector: Pass | Field Inspector: Fail |
| Interior lights | Classroom Building | Manual ON/OFF | Dimmer | Occ Sensor | Included | N/A | ☐ | ☐ | ☐ |

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX. Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*

13
Plan Sheet Showing Daylit Zones:

**I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS**

*Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.*

Conditioned Spaces

| 01 | 02 | 03 | 04 | 05 | 06 | | |
|---|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft²) | Area (ft²) | Allowed Wattage (Watts) | Additional Allowances / Adjustments: Footnotes | PAF | Portable Ltg |
| Whole Building | Auditorium Building | L4 | 960 | 1,344 | ☐ | ☑ | ☐ |
| | | TOTAL: | 960 | 1,344 | See Tables J, K, R for detail | | |

**J. POWER ADJUSTMENT: PORTABLE LIGHTING IN OFFICES**

*This Section Does Not Apply*

**K. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD FOOTNOTES**

*This Section Does Not Apply*

**L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE**

*This Section Does Not Apply*

**M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED SPECIAL FUNCTION AREAS**

*This Section Does Not Apply*



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**N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY**

*This Section Does Not Apply*

**O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING**

*This Section Does Not Apply*

**P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS**

*This Section Does Not Apply*

**Q. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE**

*This Section Does Not Apply*

**R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF)**

*Table Instructions: Please complete the table for all areas indicated in Table I or Table L as using a PAF credit described in §140.6(a)2.*

Conditioned Spaces

| 01 | 02 | | | | | | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Area Description | PAF per §140.6(a)2 (*Can be used in conjunction with other PAF's) | | | | | | Luminaires Controlled for PAF Credit | | | | Control Credit Power Adjustment (Watts) |
| | 1 | 2A | 2B | 2C | 3A* | 3B* | 4* | Luminaire Name or Item Tag | Watts per Luminaire | # of Luminaires | Lighting Controlled (Watts) | |
| | Pick up to one | | | | Pick up to one | | | | | | | |
| Classroom | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | A | 59 | 10 | 590 | 59 |
| | | | | | | | | | | | | 08 |
| Total Power Adjustment (Watts) CONDITIONED SPACES: | | | | | | | | | | | | 59 |

**S. RATED POWER REDUCTION COMPLIANCE BY SPACE**

*This Section Does Not Apply*



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**T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRC*

| YES | NO | Form/Title | Field Inspector: Pass | Field Inspector: Fail |
|---|---|---|---|---|
| ◉ | ○ | NRCI-LTI-01-E - Must be submitted for all buildings | ☐ | ☐ |
| ◉ | ○ | NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. | ☐ | ☐ |
| ○ | ◉ | NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance. | ☐ | ☐ |
| ○ | ◉ | NRCI-LTI-04-E - Must be submitted for two lnts flocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. | ☐ | ☐ |
| ○ | ◉ | NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. | ☐ | ☐ |
| ○ | ◉ | NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. | ☐ | ☐ |

**U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html*

| YES | NO | Form/Title | Field Inspector: Pass | Field Inspector: Fail |
|---|---|---|---|---|
| ◉ | ○ | NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | ☐ | ☐ |
| ◉ | ○ | NRCA-LTI-03-A - Must be submitted for automatic daylight controls. | ☐ | ☐ |
| ○ | ◉ | NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. | ☐ | ☐ |
| ○ | ◉ | NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF). | ☐ | ☐ |



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|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-E |
| Project Name: Standard 24x40 PC | Report Page: Page 6 of 6 |
| Project Address: CZ 14 | Date Prepared: 7/13/2018 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

| | | | |
|---|---|---|---|
| Documentation Author Name: | Luis Esquivel | Documentation Author Signature: | |
| Company: | Enviroplex, Inc. | Signature Date: | 7/16/2018 |
| Address: | 4777 E. Carpenter Road | CEA/ HERS Certification Identification (if applicable): | |
| City/State/Zip: | Stockton, CA 95215 | Phone: | (209) 466-8000 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**
*I certify the following under penalty of perjury, under the laws of the State of California:*
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 8 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | | | |
|---|---|---|---|
| Responsible Designer Name: | Luis Esquivel | Responsible Designer Signature: | |
| Company: | Enviroplex, Inc. | Date Signed: | 7/16/2018 |
| Address: | 4777 E. Carpenter Road | License: | 640557 |
| City/State/Zip: | Stockton, CA 95215 | Phone: | (209) 466-8000 |



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSES No. S2030 CIVIL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215. (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

ENERGY COMPLIANCE
CLIMATE ZONES 1-16

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP # 02-118094 DATE 8/30/18

PRE CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
AC FLS SS
DATE 9-6-2018

24x40 TO 120x40 P.C.



EN3

I:\CAD\2016 PC\2016 - 24x40\Drawings\2016 - 24x40 - EN3.dwg, 7/16/2018 3:15:23 PM

STATE OF CALIFORNIA
**Outdoor Lighting**
NRCC-LTO-E (Created 8/17) — CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-LTO-E |
|---|---|
| *This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2I, for outdoor lighting scopes using the prescriptive path.* | |
| Project Name: Standard 24x40 PC | Report Page: Page 1 of 6 |
| Project Address: CZ 14 | Date Prepared: 8/29/2018 |

**A. GENERAL INFORMATION**

| | | | | |
|---|---|---|---|---|
| 01 | Project Location (city) | (reference city - Palmdale) | 04 Total Illuminated Hardscape Area (ft²) | 0 |
| 02 | Climate Zone | 14 | | |

03 Outdoor Lighting Zone per Title 24, Part 1 § 10-114 or as designated by Authority Having Jurisdiction (AHJ):

☐ LZ-0: Very Low - Undeveloped Parkland ☐ LZ-1: Low - Developed Parkland ☐ LZ-2: Moderate - Rural Areas ☑ LZ-3: Moderately High - Urban Areas ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval

**B. PROJECT SCOPE**

*Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2I, for alterations.*

My project consists of:

| 01 | 02 |
|---|---|
| ☑ New Lighting System | Must Comply with Allowances from §140.7. |
| ☐ Altered Lighting System | Is your alteration increasing the connected lighting load (Watts)? ◯ Yes ◯ No |

*[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100*

**C. COMPLIANCE RESULTS**

*Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.*

| Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2I | | | | | | | | | | | | Compliance Results | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | | 02 | | 03 | | 04 | | 05 | | 06 | | 07 | 08 | 09 |
| General Hardscape Allowance §140.7(d)1 (See Table I) | + | Per Application §140.7(d)2 (See Table J) | + | Sales Frontage §140.7(d)2 (See Table K) | + | Ornamental §140.7(d)2 (See Table L) | + | Per Specific Area §140.7(d)2 (See Table M) | OR | Existing Power §141.0(b)2L (See Table N) | = | Total Allowed (Watts) | ≥ | Total Actual (Watts) (See Table F) | 07 Must be ≥ 08 |
| 520 | + | 17 | + | | + | | + | | OR | | = | 537 | ≥ | 17 | COMPLIES |
| Cutoff Compliance (See Table G for Details): | | | | | | | | | | | | | | Not Applicable | |
| Controls Compliance (See Table H for Details): | | | | | | | | | | | | | | COMPLIES | |



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| Project Name: Standard 24x40 PC | Report Page: Page 2 of 6 |
| Project Address: CZ 14 | Date Prepared: 8/29/2018 |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

No exceptional conditions apply to this project.

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**

*This Section Does Not Apply*

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**

*Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (for Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (for Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).*

Designed Wattage:

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Watts per luminaire[1] | How Wattage is determined | Total number luminaires | Luminaire Status[2] | Excluded per §140.7(a) | Design Watts | Cutoff Req. - > 150W §130.2(b)[3] | Field Inspector Pass | Fail |
| 1) 13w Compact Fluorescent Twin 2 | | 17 | NAB Default | 1 | New | ☐ | 17 | | ☐ | ☐ |
| | | | | | Total Designed Watts: | | 17 | | | |

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
*EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).*

**G. CUTOFF REQUIREMENTS (BUG)**

*This Section Does Not Apply*

**H. OUTDOOR LIGHTING CONTROLS**

*This Section Does Not Apply*



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| Project Name: Standard 24x40 PC | Report Page: Page 3 of 6 |
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**H. OUTDOOR LIGHTING CONTROLS**

*Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.*
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 07, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

Mandatory Controls

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | |
|---|---|---|---|---|---|---|---|---|
| Area Description | Motion Sensor: Incandescent>100W §130.2(a) | Shut-Off §130.2(c)1 | Auto-Schedule §130.2(c)2 | Motion Sensor §130.2(c)3 | Sales Frontage §130.2(c)4 | Façade, Ornament, Outdoor Dining §130.2(c)5 | Field Inspector Pass | Fail |
| Exterior wall mount light | NA: No Incand>100W | Photocontrol | Yes | NA: Watts≤80W | NA: No Sales Front Ltg | No Applicable Lt | ☐ | ☐ |

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
*EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).*

**I. LIGHTING POWER ALLOWANCE (per §140.7)**

*Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.*

| | 01 | | | | | |
|---|---|---|---|---|---|---|
| | | "Use it or lose it" Allowance (Watts) | | | | |
| | ☐ General Hardscape Allowance | ☑ Per Application | ☐ Sales Frontage | ☐ Ornamental | ☐ Per Specific Area | |
| | Table I (below) | Table J | Table K | Table L | Table M | |

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A

| 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|
| Area Description | Area Wattage Allowance (AWA) | | | Linear Wattage Allowance (LWA) | | | Total General AWA + LWA (Watts) |
| | Illuminated Area (ft²) | Allowed Density (W/ft²) | Area Allowance (Watts) | Perimeter Length (lf) | Allowed Density (W/lf) | Linear Allowance (Watts) | |
| | | 0.03 | 0 | | 0.83 | 0 | 0 |
| | | | | | Initial Wattage Allowance for Entire Site (Watts): | | 520 |
| | | | | | Total General Hardscape Allowance (Watts): | | 520 |

**J. LIGHTING ALLOWANCE: PER APPLICATION**



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| CERTIFICATE OF COMPLIANCE | NRCC-LTO-E |
|---|---|
| Project Name: Standard 24x40 PC | Report Page: Page 4 of 6 |
| Project Address: CZ 14 | Date Prepared: 8/29/2018 |

*Table Instructions: Please complete this table for areas using the wattage allowance per application from Table 140.7-B.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| Area Description | Application per Table 140.7-B[1] | CALCULATED ALLOWANCE (Watts) # of Locations | Allowance per Location[2] (Watts) | Extra Allowance (Watts) | DESIGN WATTS Luminaire Name or Item Tag | Watts per Luminaire | # of Luminaires | Design Watts | Additional Allowance (Watts) |
| Outdoor Lighting | Bldg Entrance/ Exit | 1 | 35 | 35 | | 17 | 1 | 17 | |
| | | | | | | Total Design Watts for this Area: | | 17 | 17 |
| | | | | | | | Total Allowance (Watts) All Areas: | | 17 |

*[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
** The Allowance per Location for ATMs is 250W for the first ATM and 70W for each additional par Table 140.7-B.*

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**

*This Section Does Not Apply*

**L. LIGHTING ALLOWANCE: ORNAMENTAL**

*This Section Does Not Apply*

**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**

*This Section Does Not Apply*

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**

*This Section Does Not Apply*



STATE OF CALIFORNIA
**Outdoor Lighting**
NRCC-LTO-E (Created 8/17) — CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-LTO-E |
|---|---|
| Project Name: Standard 24x40 PC | Report Page: Page 5 of 6 |
| Project Address: CZ 14 | Date Prepared: 8/29/2018 |

**O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/2013publications/CEC-400-2013-018/appendices/forms/NRC/*

| YES | NO | Form/Title | Field Inspector Pass | Fail |
|---|---|---|---|---|
| ◉ | ◯ | NRCI-LTO-01-E - Must be submitted for all buildings. | ☐ | ☐ |
| ◉ | ◯ | NRCI-LTO-03-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance. | ☐ | ☐ |

**P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: https://www.energy.ca.gov/title24/testing/providers.html*

| YES | NO | Form/Title | Field Inspector Pass | Fail |
|---|---|---|---|---|
| ◉ | ◯ | NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 30 luminaires. | ☐ | ☐ |



STATE OF CALIFORNIA
**Outdoor Lighting**
NRCC-LTO-E (Created 8/17) — CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-LTO-E |
|---|---|
| Project Name: Standard 24x40 PC | Report Page: Page 6 of 6 |
| Project Address: CZ 14 | Date Prepared: 8/29/2018 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

| | | | |
|---|---|---|---|
| Documentation Author Name: | Luis Esquivel | Documentation Author Signature: | Luis Esquivel |
| Company: | Enviroplex, Inc. | Signature Date: | 8/29/2018 |
| Address: | 4777 E. Carpenter Road | CEA/ HERS Certification Identification (if applicable): | |
| City/State/Zip: | Stockton, CA 95215 | Phone: | (209) 466-8000 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**
**I certify the following under penalty of perjury, under the laws of the State of California:**
**1. The information provided on this Certificate of Compliance is true and correct.**
**2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
**3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
**4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
**5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

| | | | |
|---|---|---|---|
| Responsible Designer Name: | Luis Esquivel | Responsible Designer Signature: | Luis Esquivel |
| Company: | Enviroplex, Inc. | Date Signed: | 8/29/2018 |
| Address: | 4777 E. Carpenter Road | License: | 642537 |
| City/State/Zip: | Stockton, CA 95215 | Phone: | (209) 466-8000 |



**ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL** — **ENV-MM**

| Project Name | Date |
|---|---|
| Standard 24x40 PC | 8/29/2018 |

**DESCRIPTION**

**Building Envelope Measures:**

| | |
|---|---|
| §110.6(a): | Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3. |
| §110.8(c): | All insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2. |
| §110.8(g): | Heated slab floors shall be insulated according to the requirements in Table 110.8-A. |
| §110.7(a): | All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed. |
| §110.6(a): | Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.² of window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.² for nonresidential double doors (swinging). |
| §110.6(a): | Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor. |
| §110.6(a) : | Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC. |
| §110.6(b): | Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors). |
| §120.7(a): | The opaque portions of the roof/ceiling that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows:<br><br>**Metal Building-** The weighted average U-factor of the roof assembly shall not exceed 0.098.<br>**Wood Framed and Others-** The weighted average U-factor of the roof assembly shall not exceed 0.075. |
| §120.7(b): | The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows:<br><br>**Metal Building-** The weighted average U-factor of the wall assembly shall not exceed 0.113.<br>**Metal Framed-** The weighted average U-factor of the wall assembly shall not exceed 0.151.<br>**Light Mass Walls-** A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440.<br>**Heavy Mass Walls-** An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690.<br>**Wood Framed and Others-** The weighted average U-factor of the wall assembly shall not exceed 0.110.<br>**Spandrel Panels and Opaque Curtain Wall-** The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280.<br>**Demising Walls-**. The opaque portions of framed demising walls shall meet the requirements of Item A or B below:<br>A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.090.<br>B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151. |
| §120.7(c): | The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows:<br><br>**Raised Mass Floors-** Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269.<br>**Other Floors-**The weighted average U-factor of the floor assembly shall not exceed 0.071. |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER — ARTHUR ERNEST ACKER — No. S2030 — CIVIL — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP # 02-116094 DATE 8.30.18

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215. (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

ENERGY COMPLIANCE
CLIMATE ZONES 1-16

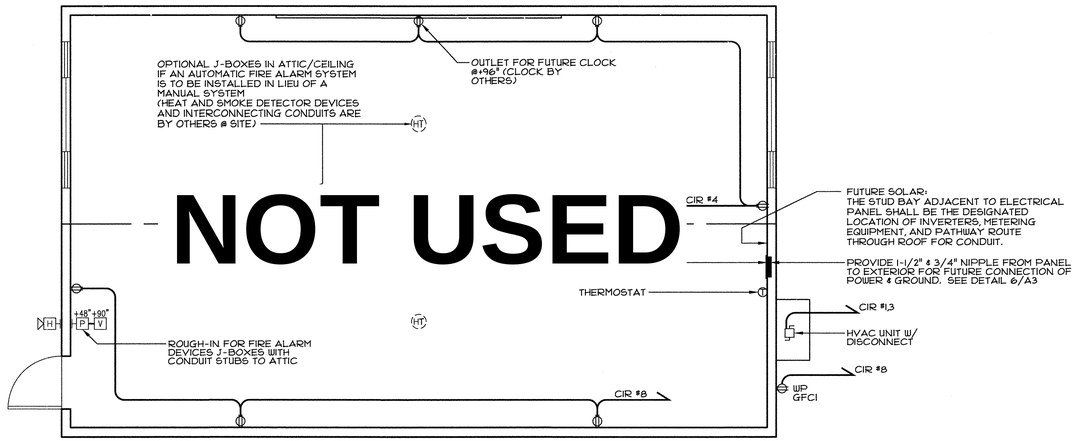
| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-116094
ACS LS SS
DATE 9-6-2018

24'x40' TO 120'x40' P.C.

EN4




## 1 ELECTRICAL POWER & SIGNAL PLAN

SCALE: 1/4"=1'-0"

1. FIRE ALARM: FURNISHED BY OWNER AND SHALL CONFORM TO THE CALIFORNIA BUILDING CODE SECTION 907.2.3 AND CALIFORNIA ELECTRICAL CODE ARTICLE 760.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY D.S.A.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR.
4. ALARMS/EMERGENCY WARNING SYSTEMS/ACCESSIBILITY.
   IF EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE ALARMS EMERGENCY VOICE ALARM COMMUNICATION SYSTEM AND VISUAL ALARMS COMPLYING WITH NFPA 72 AND CHAPTER 9, SECTIONS 907.5.2, 907.5.2.1 AND 907.5.2.2 (AND EMERGENCY VOICE ALARM COMMUNICATION SYSTEM)

## 2 FIRE PROTECTION

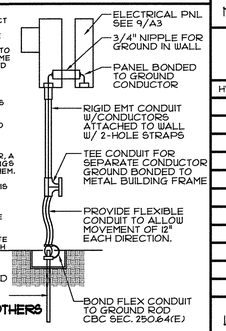
- DUPLEX RECEPTACLE @+15" MIN. A.F.F. (TO BOTTOM OF BOX) OR 18" A.F.F. TO CENTERLINE OF BOX. (UNLESS OTHERWISE NOTED)
- PROGRAMMABLE DIGITAL THERMOSTAT FOR HVAC UNIT @+48" MAX. A.F.F. (TO TOP OF BOX)
- J — JUNCTION BOX (SIZE AND INSTALLATION HEIGHT AS NOTED)
- H — WATER PROOF BELL BOX UNDER EAVE @+9'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE SEE NOTE NO.1 OF FIRE PROTECTION
- P — JUNCTION BOX @+48" A.F.F. (TO TOP OF BOX) FOR FUTURE FIRE ALARM PULL STATION - SEE NOTE NO.1 OF FIRE PROTECTION ABOVE
- V — JUNCTION BOX @+90" (U.O.N.) FOR FUTURE FIRE ALARM HORN/STROBE DEVICE - SEE NOTE NO.1 OF FIRE PROTECTION ABOVE
- I — JUNCTION BOX @+48" A.F.F. (TO TOP OF BOX) (U.O.N.) FOR FUTURE INTERCOM
- CEILING MOUNT EXHAUST FAN (CFM PER SHEET A2)
- HT — OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE HEAT DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS @ SITE)
- S — OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE SMOKE DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS @ SITE)
- SPH — OPTIONAL WATER PROOF BELL BOX UNDER EAVE @+9'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE (SPEAKER) WARNING DEVICE SEE NOTE NO.1 OF FIRE PROTECTION

1. OPTIONAL SURFACE MOUNT WALL CLOCK (BY OWNERS) : PROVIDE SINGLE CLOCK RECEPTACLE 115 VAC (OR EQUAL) .
2. ELECTRICAL PANEL: FLUSH INTERIOR MOUNTED OR SURFACE MOUNT EXTERIOR W/ HINGED DOORS AND INDEXED CARD HOLDERS. CIRCUIT BREAKER (S) WILL HAVE AN APPROPRIATE UL. LABEL LISTING.
3. RECEPTACLES: "LEVITON", "HUBBEL" (OR EQUAL)
4. ELECTRIC METALLIC TUBING: COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
5. CONDUCTORS: COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6 TYPE THW FOR LARGER SIZES. MINIMUM SIZE #12. LIGHTING & OUTLETS USE MINIMUM SIZE #12, SIZE HVAC WIRING PER LOAD.
6. SEE SHEET A2 FOR HVAC & THERMOSTAT SPECIFICATION.

## 3 ELECTRICAL SPECIFICATIONS

## 4 ELECTRICAL LEGEND

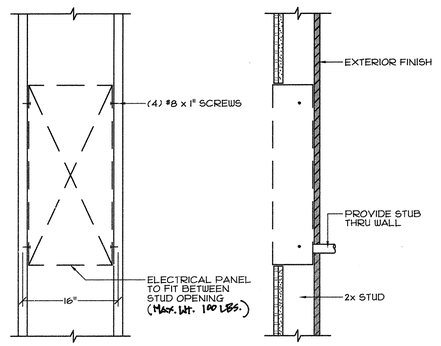
NOTES:
METER AND GROUND ARE NOT PART OF THIS CONTRACT TO BE PROVIDED BY OTHERS
1. SIZE OF CONDUCTORS SHALL COMPLY W/CEC TABLE 250.66
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL OF BUILDING FRAME (CEC. 250.52) IN ADDITION TO THE DETAIL SHOWN BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (C.E.C. 250.52)
3. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER, (BOLTING ONLY IS NOT ACCEPTABLE BONDING.)
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND ROD GREATER THAN 6'-0" AWAY (C.E.C. 250.53) ONCE THE SECOND GROUND ROD IS INSTALLED, ADDITIONAL RESISTANCE TESTING IS NOT REQUIRED.
5. WHERE MODULAR BUILDINGS ARE GROUPED TOGETHER, A GROUND ROD MAY BE INSTALLED AT THE END BUILDINGS AND A GROUND RING MAY BE INSTALLED BETWEEN THEM. EACH INTERMEDIATE MODULAR BUILDING MAY BE BONDED TO THAT GROUND RING. WHERE THIS METHOD IS USED, GROUND RESISTANCE TESTING SHALL NOT BE REQUIRED.
6. WHERE MODULAR BUILDINGS ARE INSTALLED ON CONCRETE FOUNDATIONS, A UFER GROUND SHALL BE INSTALLED IN THE FOOTING PER C.E.C. 250.52 (A)(3).
7. OTHER GROUNDING METHODS IDENTIFIED IN C.E.C.250 SHALL BE ACCEPTABLE MEANS TO ACHIEVE ADEQUATE GROUNDING OF METAL BUILDINGS IN COMPLIANCE WITH THE ABOVE.




**NOTE: GROUND TO BE PROVIDED BY OTHERS**

GROUNDING TEST ARE TO BE OBSERVED AND REPORTED BY THE INSPECTOR OF RECORD.

## 6 ELECTRICAL GROUND




## 9 ELECTRICAL PANEL INSTALLATION

SCALE: 1"=1'-0"

PANEL SCHEDULE: "A"
MOUNTING: FLUSH INT. NEMA-1 VOLTS: 120/240
PANEL: 125A PHASE: 1ø
MAIN BREAKER: 125A WIRE: 3W

| | DESCRIPT | | | | SCRIPTION |
|---|---|---|---|---|---|
| 1 | HVAC UNIT | | 19 | 20 | |
| 3 | | | 21 | 22 | FUTURE SOLAR ELEC. * |
| 5 | | | 23 | 24 | |

LEG A: 8980 W
LEG B: 8620 W TOTAL: 17600 W AMPS: 73.3

* RESERVED SPACE FOR FUTURE SOLAR ELECTRIC SHALL BE PERMANENTLY MARKED.

## 7 TYPICAL PANEL SCHEDULE

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST [illegible] No. S2030 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

ELECTRICAL POWER PLAN, SIGNAL PLAN, DETAILS, ELECTRICAL NOTES

| REV / DATE: | BY: |
|---|---|
| | |

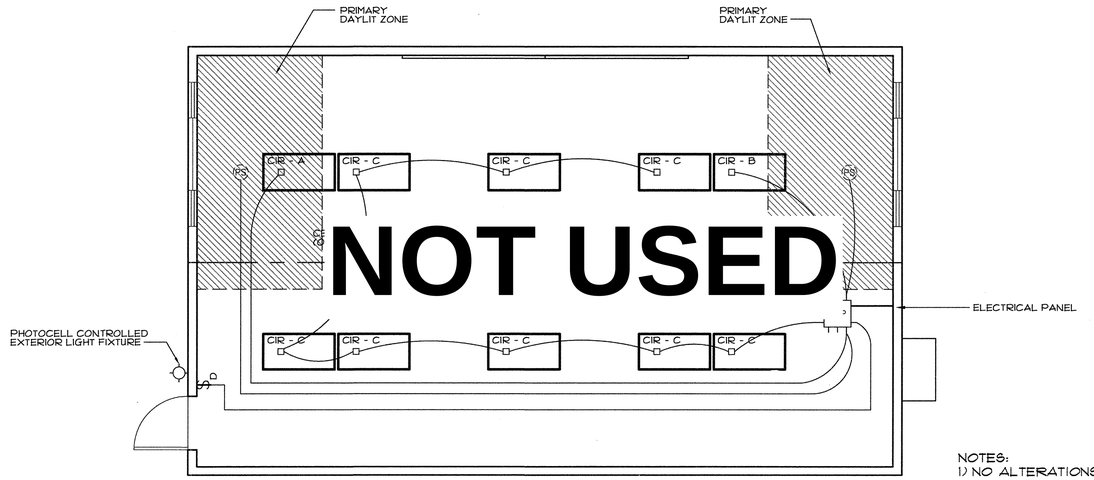
JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
ACS FLS SS
DATE 9-6-2018
SCALE: 1"=1'-0"

A3

24'x40' TO 120'x40' P.C.

1




NOTES:
1) NO ALTERATIONS (DRILLING HOLES, ETC.) ARE TO BE MADE TO STEEL STRUCTURAL MEMBERS.
2) IF SKYLIGHTS ARE PROVIDED IN THE SITE SPECIFIC PROJECT, NEW BUILDING ANALYSIS ENERGY REPORTS AND REVISED LIGHTING PLANS WILL BE REQUIRED TO BE SUBMITTED WITH THE SITE SPECIFIC APPLICATION PRIOR TO RECEIVING APPROVAL BY DSA.

8 LIGHTING PLAN
SCALE: 1/4"=1'-0"

RCP — RELAY CONTROLLER PANEL:
NEMA 1 PLENUM RATED, SURFACE MOUNTED DIMMING PANEL
(RELAYS, DIMMING OUTPUTS, PHOTOCELL INPUTS, & DRY CONTACT INPUTS).

LIGHT FIXTURE:
2'x4' LED RECESSED TROFFER TYPE

OS — OCCUPANCY SENSOR:
LOW VOLTAGE, CEILING MOUNTED,
OPTIONAL - WALL MOUNTED.

PS — PHOTOSENSOR:
LOW VOLTAGE, INTERIOR, CEILING MOUNTED,
OPTIONAL - INTEGRAL IN LIGHT FIXTURE

D — DIMMING SWITCH:
LOW VOLTAGE, TWO BUTTON, DIGITAL SWITCH W/ MANUAL ON/OFF & DIMMING CONTROL.
(@+48" MAX A.F.F. TO TOP OF BOX).

EXTERIOR LIGHT:
COMPACT FLUORESCENT, 13 WATT, WALL PACK.
"LITHONIA" TWS (OR EQUAL)
MOUNTED @ +96" A.F.F. (U.O.N.)

4 LIGHTING LEGEND

1. LIGHTING FIXTURE:
   2' x 4' LED RECESSED TROFFER TYPE FIXTURES,
   W/ LOW VOLTAGE DIMMING CONTROL SIGNAL, MAXIMUM 6000 LUMENS, MAX 59W.
   "LITHONIA" 2GTL ( OR EQUAL) .
2. DAYLIGHT CONTROL PHOTOCELL:
   ON/OFF AND AUTOMATIC DIMMING CONTROL, CEILING MOUNT, LOW VOLTAGE.
   "nLIGHT" nCM ADC OR nCM ADCX ( OR EQUAL) .
3. LIGHT SWITCHES:
   ON/OFF & ON/OFF PLUS DIMMING, PUSH BUTTON, LOW VOLTAGE.
   "nLIGHT" nCM ADC OR nCM ADCX ( OR EQUAL) .
4. OCCUPANCY SENSOR:
   LOW VOLTAGE, WALL MOUNT OR CEILING MOUNT.
5. RELAY CONTROL PANEL:
   RELAY DIMMING PANEL, NEMA 1 PLENUM RATED, SURFACE MOUNTED.
   W/ 30A RELAYS, LOW VOLTAGE DIMMING OUTPUTS, PHOTOCELL OUTPUTS, DRY CONTACT INPUTS, AND OPTIONAL VOLTAGE BARRIER FOR EM CIRCUITS.
   "ACUITY BRANDS" ( OR EQUAL)
6. ILLUMINATED EXIT SIGNS:
   IF REQUIRED BY CODE, SHALL BE PROVIDED IN COMPLIANCE W/ C.B.C. 1013.
7. MEANS OF EGRESS ILLUMINATION:
   WHERE ( 2) OR MORE EXITS ARE REQUIRED, SUCH EXITS SHALL HAVE INTERIOR AND EXTERIOR LANDINGS ILLUMINATED BY FIXTURES CAPABLE OF AUTOMATIC EMERGENCY POWER OF NOT LESS THAN 90 MINUTES.
   ( INCLUDES AISLES, UNENCLOSED STAIRWAYS, CORRIDORS, EXTERIOR EGRESS COMPONENTS AT OTHER THAN LEVEL OF DISCHARGE, LABS, SHOPS, AND WINDOWLESS AREAS WITH STUDENT OCCUPANCY) .
   SWITCHING OF EGRESS LIGHTING SHALL NOT BE ACCESSIBLE TO UNAUTHORIZED PERSONNEL PER C.B.C. 1008.
8. SKYLIGHTS ( IF OPTION IS INCLUDED IN SITE SPECIFIC PROJECT) : GENERAL LIGHTING FIXTURES PLACED IN THE PRIMARY DAYLIT ZONE OF SKYLIGHTS SHALL BE CONTROLLED IN RESPONSE TO AVAILABLE DAYLIGHTING.
   REFER TO SHEET A5.1 FOR SKYLIGHT FRAMING AND DETAILS.
9. ACCESSIBLE, INDEPENDENT SWITCHING OR A CONTROL DEVICE SHALL BE INCLUDED FOR ALL AREAS ENCLOSED BY CEILING HEIGHT PARTITIONS.
10. ALL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL OR OUTDOOR ASTRONOMICAL TIME SWITCH CONTROL.
11. FOR NON-POLE MOUNTED LUMINAIRES OVER 30 WATTS EACH:
    OUTDOOR LIGHTING WHERE BOTTOM OF LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE THE GROUND SHALL BE CONTROLLED BY MOTION SENSORS OR OTHER CONTROLS CAPABLE OF REDUCING THE LIGHTING POWER OF EACH LUMINAIRE BY 40 TO 80% IN RESPONSE TO THE AREA BEING VACATED.

5 LIGHTING SPECIFICATIONS

DIVISION OF THE STATE ARCHITECT

PRE-CHECK ( PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER — ARTHUR ERNEST ROSES — No. 52030 — CIVIL — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

LIGHTING PLAN & NOTES

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
ACWW FLS SS
DATE 9-6-2018

A3.1

24"x40" TO 12"x40" P.C.

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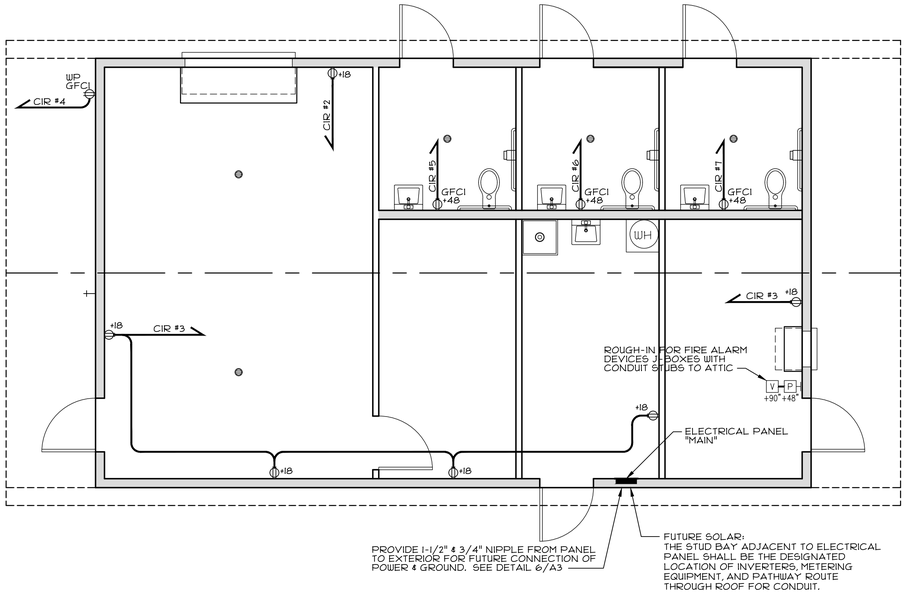
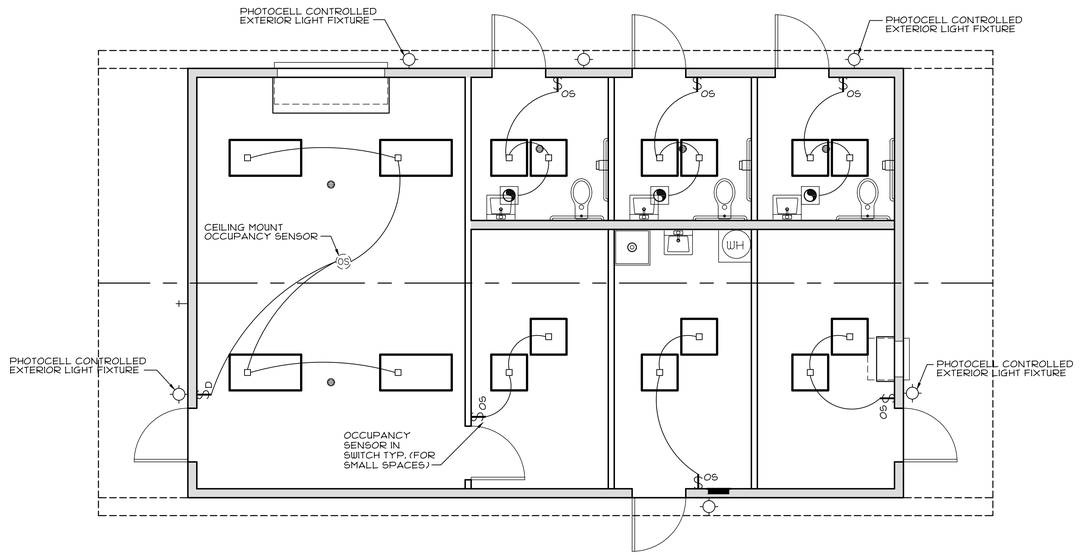



NOTE:
SEE SHEET A3 FOR LEGEND AND SPECIFICATIONS

## 1 ELECTRICAL POWER & SIGNAL PLAN

SCALE: 1/4"=1'-0"




NOTE:
SEE SHEET A3.1 FOR LEGEND AND SPECIFICATIONS

## 8 LIGHTING PLAN

SCALE: 1/4"=1'-0"

## 2

## 3

## 4

## 6

## 7 TYPICAL PANEL SCHEDULE

PANEL SCHEDULE: "MAIN"
MOUNTING: FLUSH INT. (NEMA 1) VOLTS: 208/120
PANEL: 125 AMP RATED PHASE: 1φ
MAIN BREAKER: 125A WIRE: 3W

| DESCRIPTION | LOAD | BRKR | | MAIN 125A A | MAIN 125A B | | BRKR | LOAD | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| LIGHTING & FANS | 599 | 20/1 | 1 | ♦ | | 2 | 20/1 | 360 | OUTLETS |
| OUTLETS | 720 | 20/1 | 3 | | ♦ | 4 | 20/1 | 180 | WP GFCI |
| GFCI OUTLET | 180 | 20/1 | 5 | ♦ | | 6 | 20/1 | 180 | GFCI OUTLET |
| GFCI OUTLET | 180 | 20/1 | 7 | | ♦ | 8 | 20/1 | 114 | LIGHTING EXT. |
| | | | 9 | ♦ | | 10 | | | |
| | | | 11 | | ♦ | 12 | | | |
| | | | 13 | ♦ | | 14 | | | |
| | | | 15 | | ♦ | 16 | | | |
| | | | 17 | ♦ | | 18 | | | |
| | | | 19 | | ♦ | 20 | | | |
| | | | 21 | ♦ | | 22 | | | FOR FUTURE SOLAR ELEC. * |
| | | | 23 | | ♦ | 24 | | | |

LEG A: 1319 W
LEG B: 1194 W

* RESERVED SPACE SHALL BE PERMANENTLY MARKED

TOTAL: 2513 W AMPS: 12.1

* RESERVED SPACE FOR FUTURE SOLAR ELECTRIC SHALL BE PERMANENTLY MARKED.

## 9



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

CYS
STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 600
Sacramento, CA 95833
(916) 239-1200 Fax
www.cysse.com

03/26/2020

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROGERS No. S2030 STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

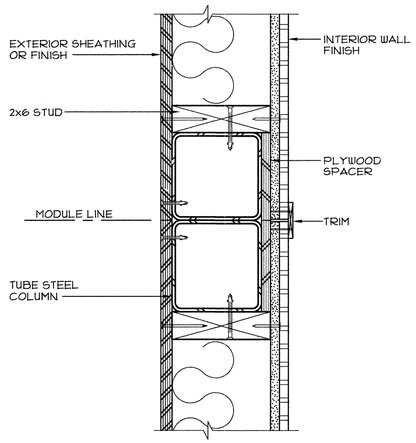
CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

ELECTRICAL POWER & SIGNAL PLAN, LIGHTING PLAN

| REV / DATE: | BY: |
|---|---|
| | |

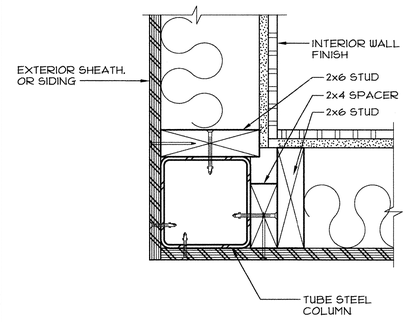
| | |
|---|---|
| JOB No.: | 19-000 |
| DRAWN BY: | RS |
| DATE: | 12/17/2019 |

A3.2



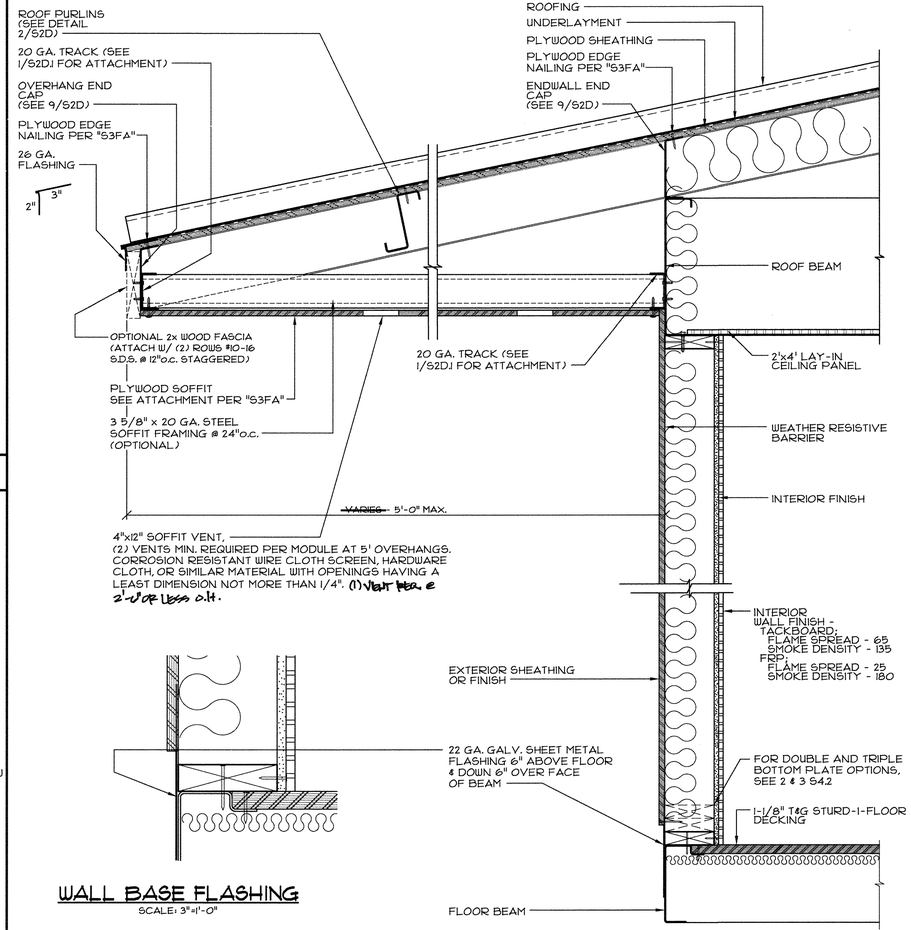

FOR FASTENER SCHEDULE, SEE SHEET S3FA

## 1 SECTION - 5x5 COLUMN @ MOD. LINE
SCALE: 3"=1'-0"




FOR FASTENER SCHEDULE, SEE SHEET S3FA

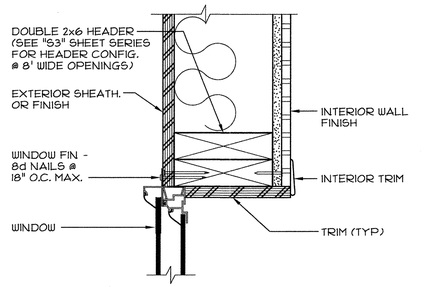
## 2 SECTION - 5x5 COLUMN @ CORNER
SCALE: 3"=1'-0"




## WALL BASE FLASHING
SCALE: 3"=1'-0"

FOR FASTENER SCHEDULE, SEE SHEET S3FA

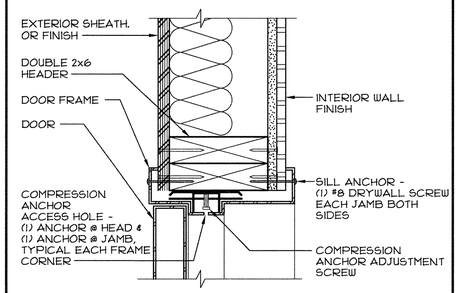
## 7 SECTION - FRONT OVERHANG
SCALE: 1 1/2"=1'-0"




SECTION @ WINDOW JAMB IS SIMILAR

FOR FASTENER SCHEDULE, SEE SHEET S3FA

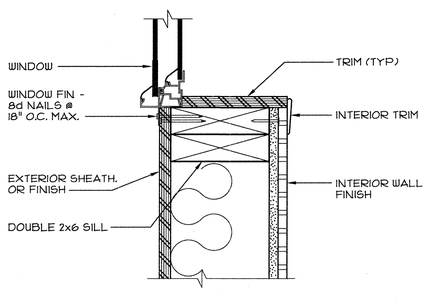
## 3 SECTION - WINDOW HEADER
SCALE: 3"=1'-0"




SECTION @ DOOR JAMB IS SIMILAR

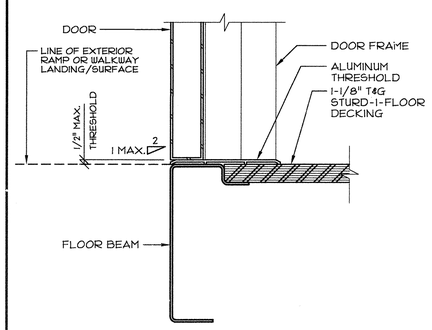
FOR FASTENER SCHEDULE, SEE SHEET S3FA

## 4 SECTION - DOOR HEADER
SCALE: 3"=1'-0"

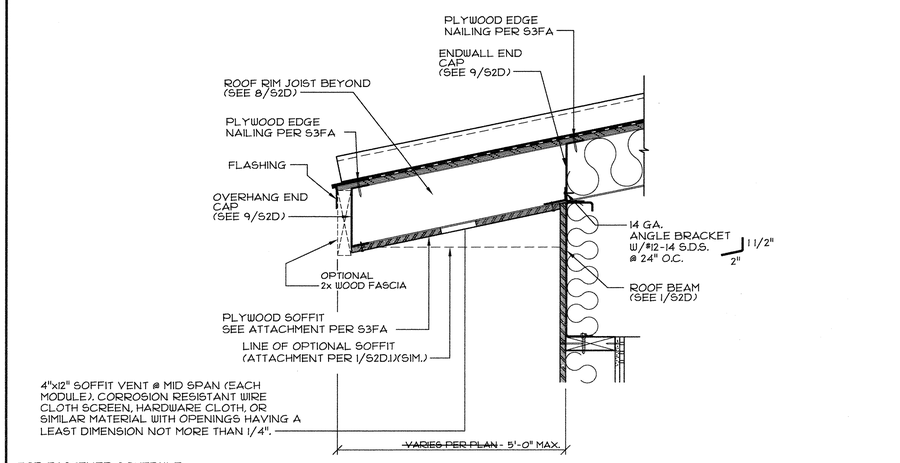



FOR FASTENER SCHEDULE, SEE SHEET S3FA

## 5 SECTION - WINDOW SILL
SCALE: 3"=1'-0"

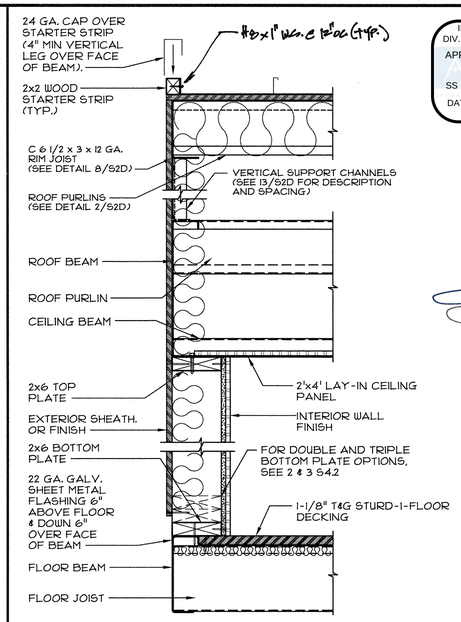



## 6 SECTION - DOOR THRESHOLD
SCALE: 3"=1'-0"



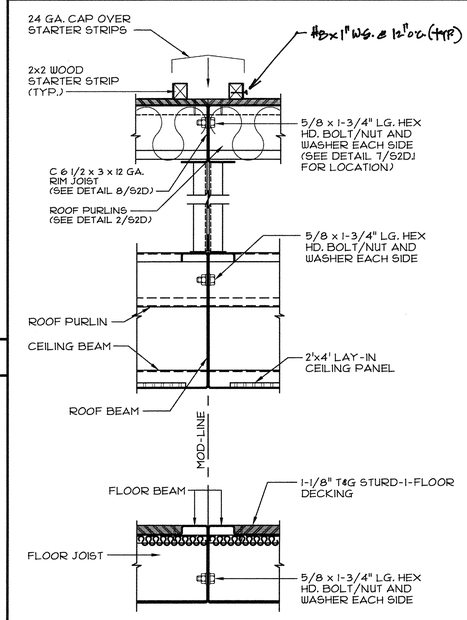

FOR FASTENER SCHEDULE, SEE SHEET S3FA

## 8 SECTION - REAR OVERHANG
SCALE: 1 1/2"=1'-0"




FOR FASTENER SCHEDULE, SEE SHEET S3FA

## 9 SECTION - @ SIDEWALL
SCALE: 1 1/2"=1'-0"




FOR FASTENER SCHEDULE, SEE SHEET S3FA

## 10 SECTION - @ MODULE LINE
SCALE: 1 1/2"=1'-0"

NOTE:
ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER ARTHUR BARNETT No. S2030 CIVIL

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

VARIABLE PITCH ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)

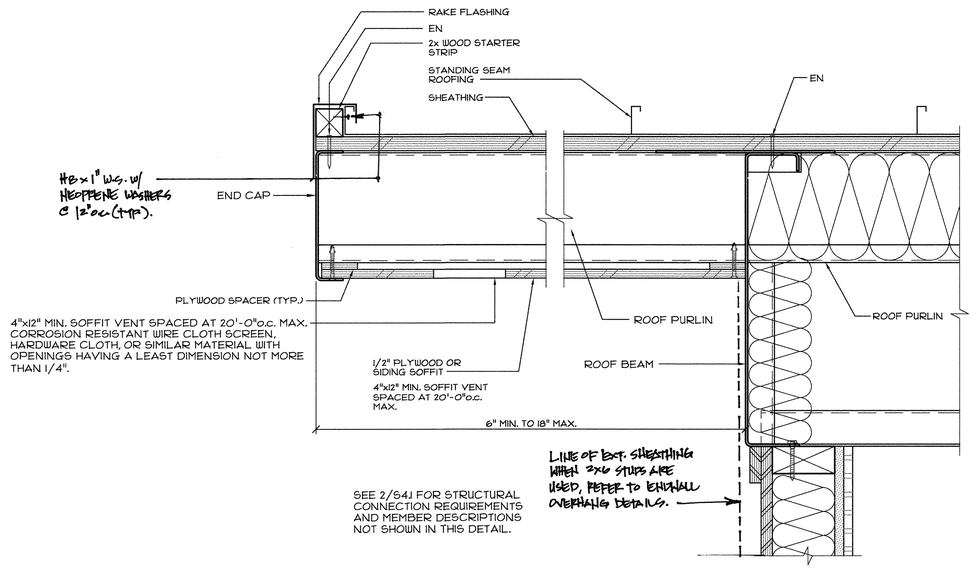
| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
AC FLS ACS
DATE: 9-6-2018

24"x40" TO 12"x40" P.C.

A4D




2 TYPICAL SIDEWALL OVERHANG DETAIL
SCALE: 3"=1'-0"

NOTE:
ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

OPTIONAL SIDEWALL OVERHANG DETAIL

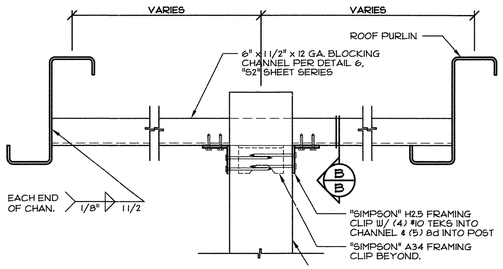
| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

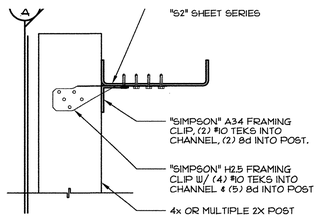
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
AC FLS SS
DATE 9-6-2018

A4S

24'x40' TO 120'x40' P.C.



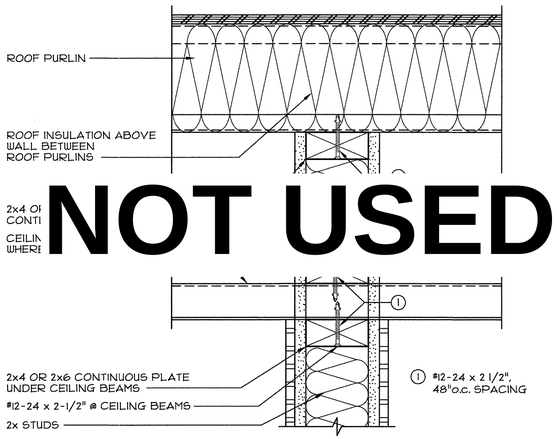

# NOT USED




SECTION B-B

## 11 TOP CONNECTION - FULL HT. POST FOR HALF WALLS

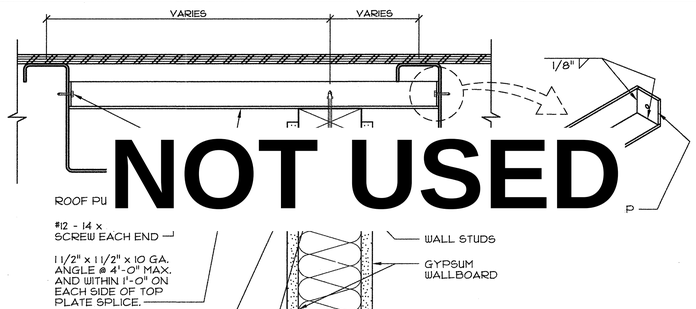
SCALE: 3"=1'-0"




# NOT USED

## 12 FULL HEIGHT PRIVACY WALL - PERP. TO PURLINS

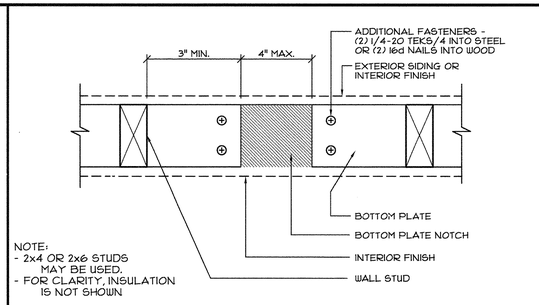
SCALE: 3"=1'-0"




# NOT USED

## 13 FULL HEIGHT PRIVACY WALL - PARALLEL TO PURLINS

SCALE: 3"=1'-0"

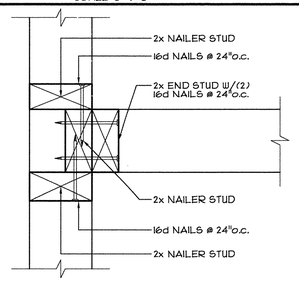



NOTE:
- 2x4 OR 2x6 STUDS MAY BE USED.
- FOR CLARITY, INSULATION IS NOT SHOWN

FOR FASTENER SCHEDULE, SEE "53" SHEETS

## 1 ALLOWABLE BOTTOM PLATE NOTCH

SCALE: 3"=1'-0"

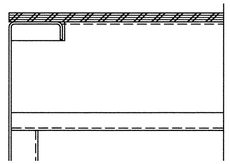



NOTE:
- 2x4 OR 2x6 STUDS MAY BE USED.
- FOR CLARITY, INSULATION IS NOT SHOWN

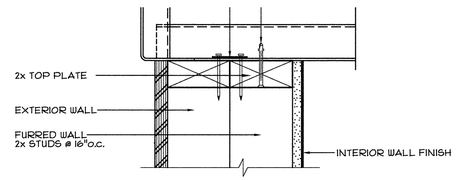
## 4 PERPENDICULAR WALL CONNECTION

SCALE: 3"=1'-0"

NOTE:
- 2x4 OR 2x6 STUDS MAY BE USED.
- FOR CLARITY, INSULATION IS NOT SHOWN

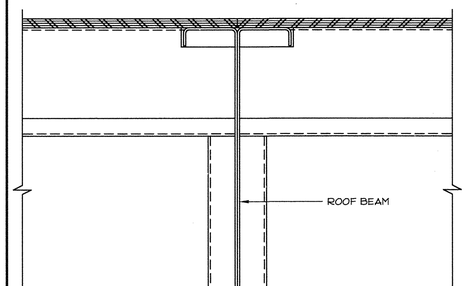


# NOT USED




## 6 FURRED WALL - TOP PLATE CONNECTION

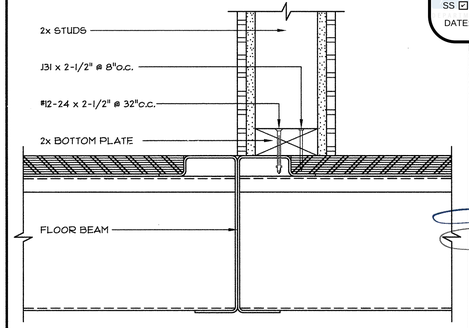
SCALE: 3"=1'-0"




NOTE:
- 2x4 OR 2x6 STUDS MAY BE USED.
- FOR CLARITY, INSULATION IS NOT SHOWN

## 2 INT. TOP PLATE TO ROOF BEAM

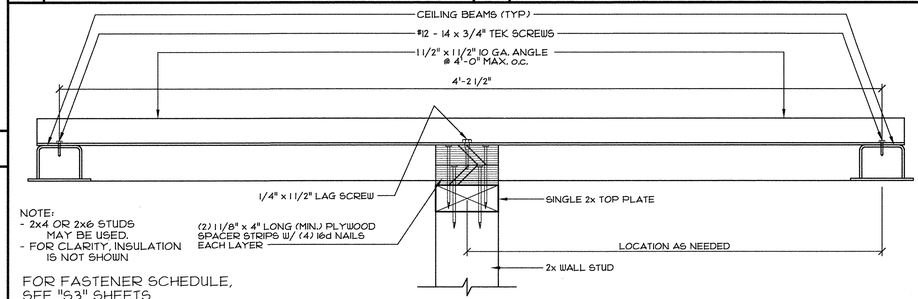
SCALE: 3"=1'-0"




NOTE:
- 2x4 OR 2x6 STUDS MAY BE USED.
- FOR CLARITY, INSULATION IS NOT SHOWN

## 3 INT. BOTTOM PLATE TO FLOOR BEAM

SCALE: 3"=1'-0"

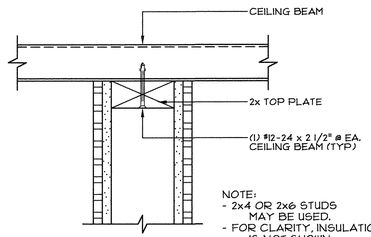



NOTE:
- 2x4 OR 2x6 STUDS MAY BE USED.
- FOR CLARITY, INSULATION IS NOT SHOWN

FOR FASTENER SCHEDULE, SEE "53" SHEETS

## 5 TOP PLATE ATTACHMENT BETWEEN CEILING BEAMS

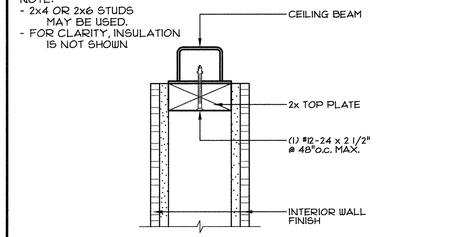
SCALE: 3"=1'-0"




NOTE:
- 2x4 OR 2x6 STUDS MAY BE USED.
- FOR CLARITY, INSULATION IS NOT SHOWN

## 7 TOP PLATE TO CEILING BEAM

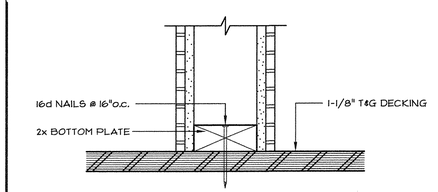
SCALE: 3"=1'-0"




NOTE:
- 2x4 OR 2x6 STUDS MAY BE USED.
- FOR CLARITY, INSULATION IS NOT SHOWN

## 8 TOP PLATE TO CEILING BEAM

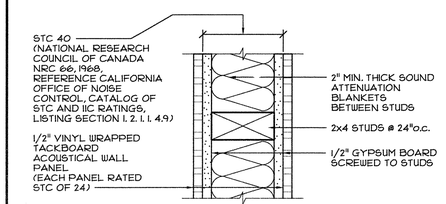
SCALE: 3"=1'-0"




NOTE:
- 2x4 OR 2x6 STUDS MAY BE USED.
- FOR CLARITY, INSULATION IS NOT SHOWN

## 10 BOTTOM PLATE TO FLOOR

SCALE: 3"=1'-0"




## 14 TYP. INTERIOR WALL STC RATING

SCALE: 3"=1'-0"

PRE CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER ERNEST ROSS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

INTERIOR WALL CONNECTION DETAILS

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

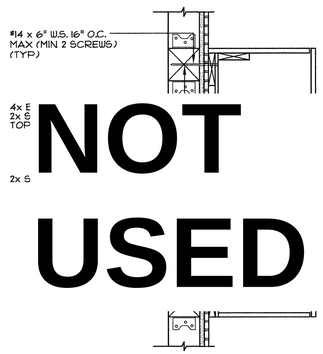
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118064
ACS ☑ FLS ☑ SS ☑
DATE: 9-6-2018

24"x40" = 24x40

24"x40" TO 120"x40" P.C.

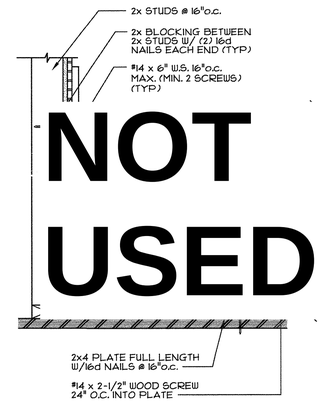
A4H

I:\CAD\2016 PC\2016 - 24x40\Drawings\2016 - 24x40 - A4H.dwg, 8/28/2018 3:03:38 PM



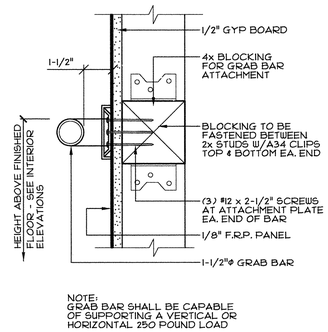

NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

1 UPPER CABINET BLOCKING DETAIL
SCALE: 1 1/2"=1'-0"



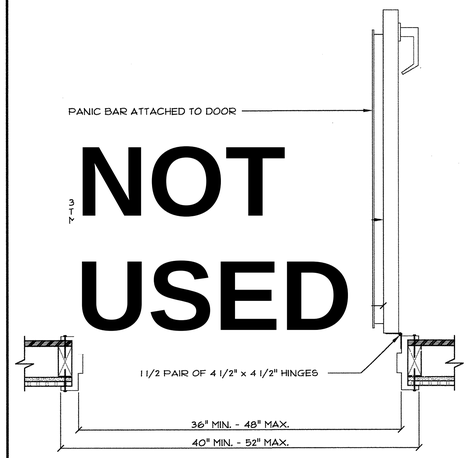

NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

2 BASE CABINET BLOCKING DETAIL
SCALE: 1 1/2"=1'-0"

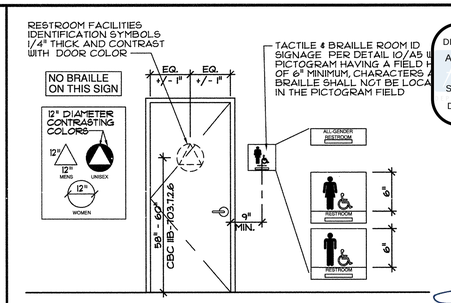



NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

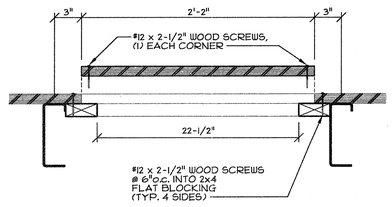
3 GRAB BAR BLOCKING DETAIL
SCALE: 3"=1'-0"



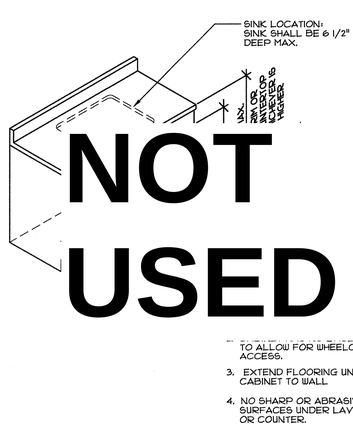

4 PANIC HARDWARE DETAIL
SCALE: 1 1/2"=1'-0"



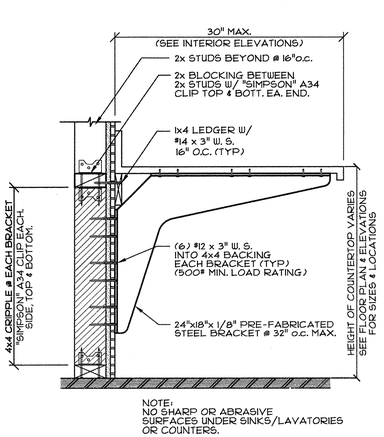

5 RESTROOM DOOR & ROOM IDENTIFICATION SIGNAGE
SCALE: 3/8"=1'-0"



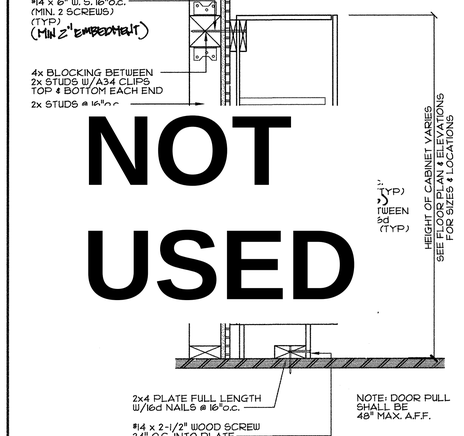

6 HANDRAIL VERTICAL TO CONC.
SCALE: 1 1/2" = 1'-0"




7 PROJECTOR SCREEN BLOCKING
SCALE: 1 1/2"=1'-0"




8 MARKERBOARD BLOCKING
SCALE: 1 1/2"=1'-0"




9 D.F. TO WALL ATTACHMENT
SCALE: NTS




NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

14 TALL CABINET BLOCKING DETAIL
SCALE: 1 1/2"=1'-0"

**NAMES, NUMBERS, OR LETTERS ONLY**
THE MOST LOGICAL IDENTIFICATION SYSTEM FOR ROOMS OR OFFICES IS TO USE NUMBERS, LETTERS, OR COMBINATIONS OF NUMBERS AND LETTERS WHICH CAN THEN BE ARRANGED IN LOGICAL ORDER FOR EASY WAYFINDING.

12B Braille | LIBRARY Braille | EXIT Braille

5/8"-2"
3/8"-1/2"
3/8" MIN.

Mary Jones
PRINCIPAL
Braille

CHANGEABLE INFORMATION MAY BE INCLUDED ON A REMOVABLE INSERT

**RAISED CHARACTERS:**
**DEPTH**
SHALL BE 1/32" MINIMUM ABOVE BACKGROUND.
**CASE**
CHARACTERS SHALL BE UPPER CASE.
**STYLE**
SHALL BE SANS SERIF AND SHALL NOT BE OBLIQUE, SCRIPT, DECORATIVE OR OTHER UNUSUAL FORMS.
**PROPORTIONS**
WIDTH OF UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF UPPERCASE "I".
**HEIGHT**
MEASURED VERTICALLY FROM BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE UPPERCASE LETTER "I".
**STROKE THICKNESS**
THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER
**FINISH**
CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.
**CHARACTER SPACING**
SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS AND 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" MINIMUM.
**LINE SPACING**
SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% MINIMUM AND 170% MAX. OF THE RAISED CHARACTER HEIGHT.
**FORMAT**
TEXT SHALL BE HORIZONTAL
**BRAILLE:**
SHALL BE CONTRACTED (GRADE 2) AND DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE 11B-703.3.1. THE INDICATION OF AN UPPER-CASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF A SENTENCE, PROPER NOUNS, AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.
**POSITION**
SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" MIN AND 1/2" MAX FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
**INSTALLATION:**
**HEIGHT ABOVE FINISHED FLOOR OR GROUND**
CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN ABOVE THE FINISHED FLOOR OR GROUND SURFACE MEASURED FROM BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAX ABOVE THE FINISHED FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
**LOCATION**
SIGNS SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE, WHERE AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE THE PROVIDED WITH TWO ACTIVE LEAFS THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF A DOUBLE DOOR, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN BY 18" MIN CENTERED ON THE TACTILE CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.
**NOTE**
ROOM IDENTIFICATION SIGNAGE AND INTERNATIONAL SYMBOLS OF ACCESSIBILITY SIGNAGE SHALL BE PROVIDED BY SCHOOL DISTRICT / OWNER AT SITE. SIGNAGE SHALL BE INSTALLED AT LOCATIONS REQUIRED BY CODE USING THE ABOVE GUIDELINES.

10 TYP. ROOM IDENTIFICATION SIGNAGE
DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER — No. 82030 — STRUCTURAL — STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8800

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

MISCELLANEOUS DETAILS

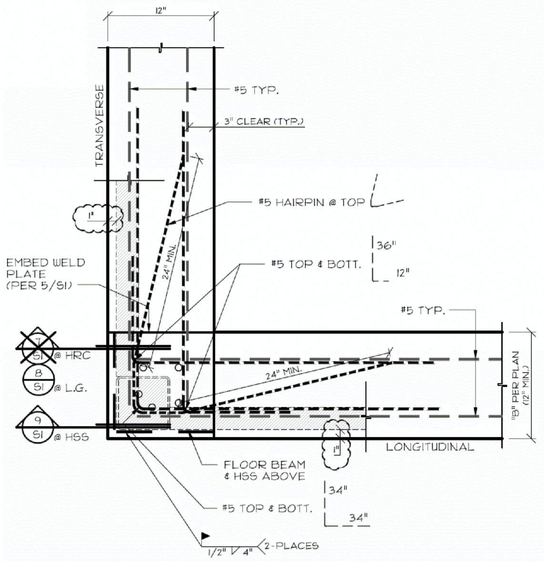
| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
ACS ☑ FLS ☑ SS ☑
DATE 9-6-2018

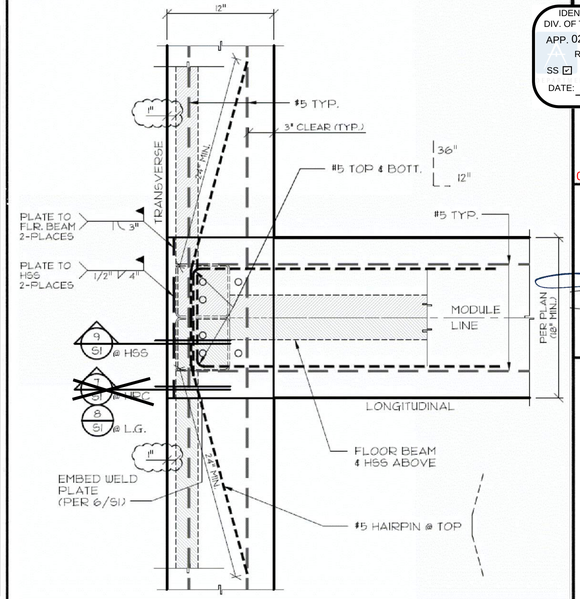
A5

24"x40" TO 120"x40" P.C.



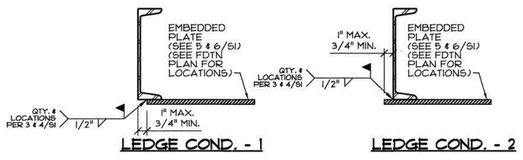

3 EMBED WELD PLATE & REBAR AT CORNER

SCALE: 1 1/2"=1'-0"

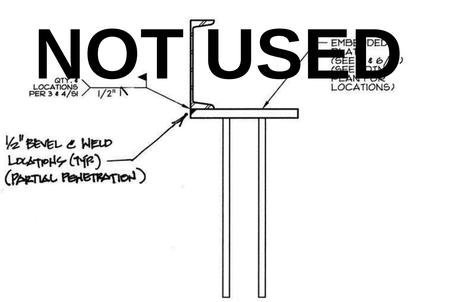



4 EMBED WELD PLATE & REBAR AT MODLINE

SCALE: 1 1/2"=1'-0"

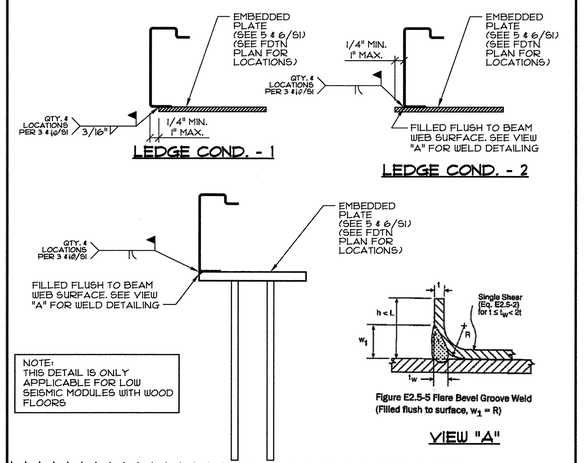



NOT USED



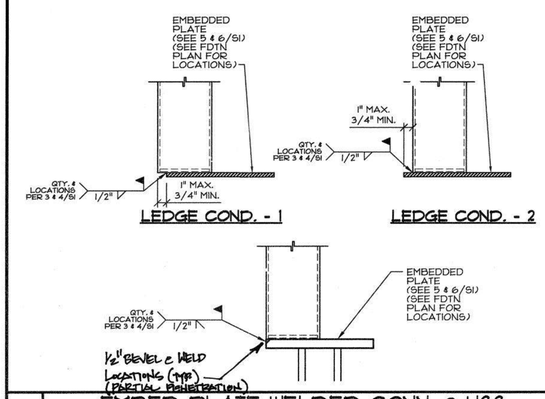

7 EMBED PLATE WELDED CONN. @ HRC

SCALE: 1 1/2"=1'-0"



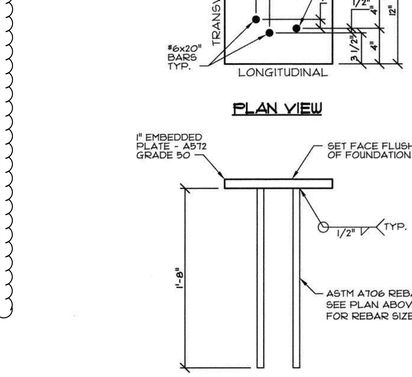

8 EMBED PLATE WELDED CONN. @ LIGHT GAGE

SCALE: 1 1/2"=1'-0"

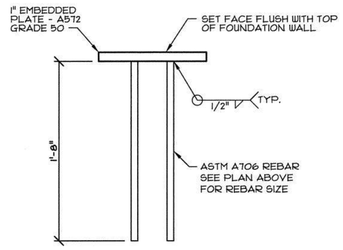



9 EMBED PLATE WELDED CONN. @ HSS

SCALE: 1 1/2"=1'-0"



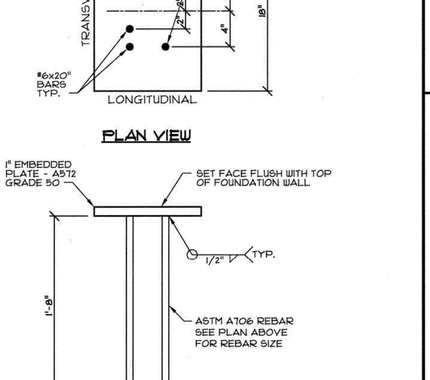

PLAN VIEW




SIDE VIEW

5 EMBED PLATE - CORNER

SCALE: 1 1/2"=1'-0"




PLAN VIEW




SIDE VIEW

6 EMBED PLATE - MODULE LINE

SCALE: 1 1/2"=1'-0"

FOR USE:
1) 20 PSF ROOF LIVE LOAD W/ ~~50~~, 65, ~~85 + 150~~ psf FLOOR LL.
2) ALL ROOF OPTIONS.
3) ALL EXTERIOR FINISH OPTIONS.

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST PEDERSEN
No. S2030
CIVIL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.


ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000


CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

FOOTING DETAILS & NOTES

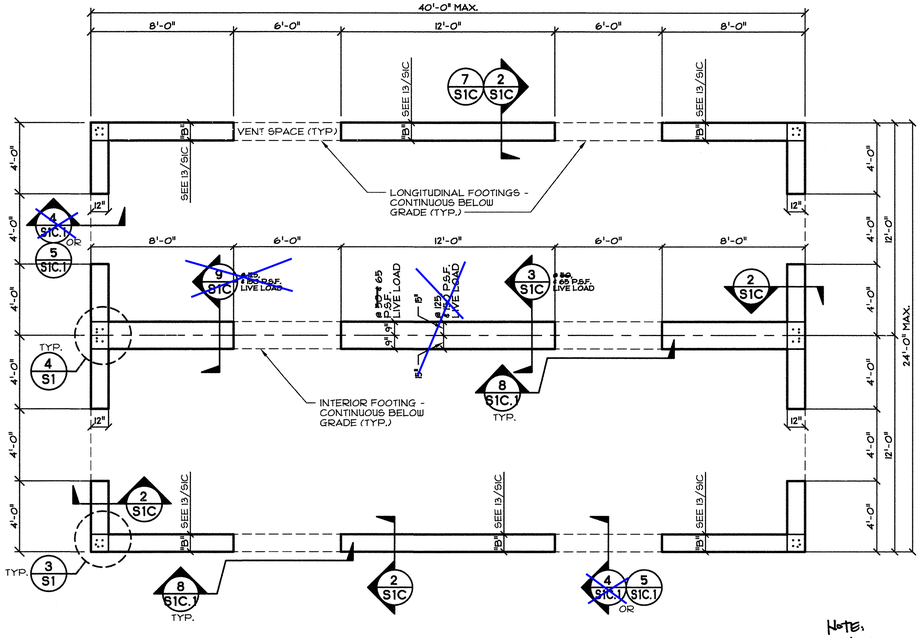
| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
PC-01
02-118094
AC. FLS. SS
DATE 9-6-2018

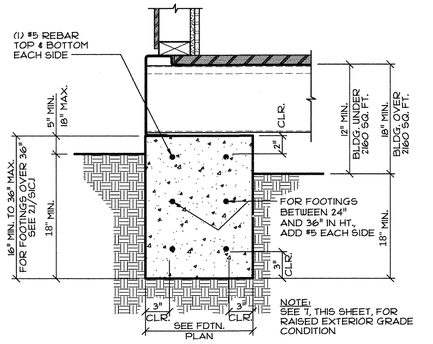
S1

24x40 TO 120x40 P.C.

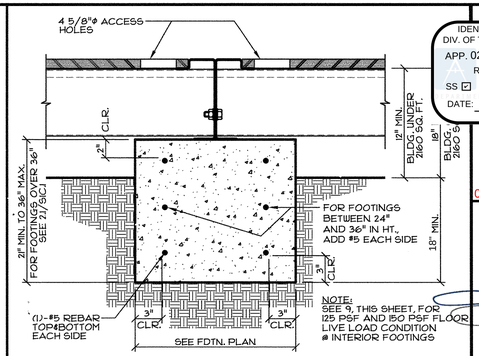



NOTE,
FOR REQUIRED UNDERFLOOR VENTILATION, SEE 6/S1C.1

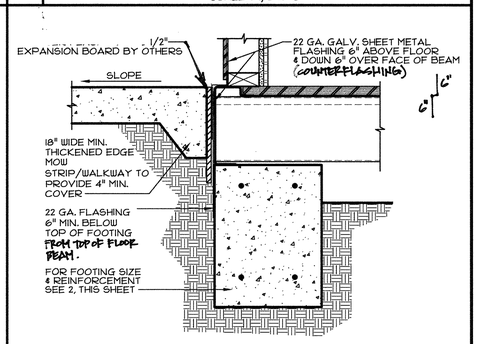
## 1 CONCRETE FOUNDATION PLAN
SCALE: 1/4"=1'-0"




## 2 PERIMETER FOOT. - ~~50~~, 65, ~~125, 150~~ psf
SCALE: 1-1/2"=1'-0"




## 3 INTERIOR FOOTING - ~~50~~ & 65 PSF
SCALE: 1-1/2"=1'-0"




## 7 PERIMETER FLASHING DETAIL
SCALE: 1-1/2"=1'-0"

| ALLOWABLE BEARING (psf.) | MODULE CONFIGURATION | FOOTING WIDTH "B" (inches) | | |
|---|---|---|---|---|
| | | CLASSROOM (50 psf + 15 psf.) ☐ | ~~100psf~~ ☐ | ~~150psf~~ ☐ |
| 1500 | STD BI-PITCH, STD SHED - NO STUCCO | 12 | ~~15~~ | ~~18~~ |
| | ALL ROOF OPTIONS - NO STUCCO | 12 | | |
| | ALL ROOF OPTIONS - STUCCO | 12 | ~~15~~ | ~~18~~ |

## 13 "B" FOOTING WIDTH SCHEDULE

NOTES:

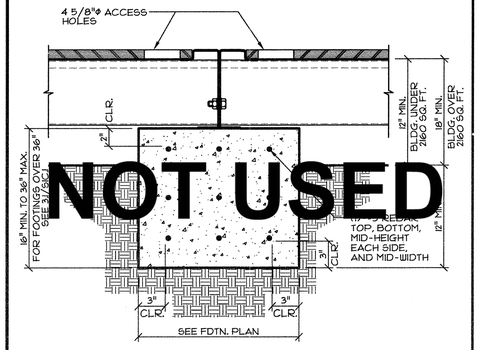
1. ALLOWABLE SOIL BEARING PRESSURE IS 2,000 P.S.F. (DL+LL) & 2,667 (DL+LL+LATERAL) PER WALLACE KUHL & ASSOCIATES GEOTECHNICAL ENGINEERING REPORT PROJ # 12435.01P DATED SEPTEMBER 11, 2019
2. CONCRETE FOR FOOTINGS SHALL HAVE A MINIMUM STRENGTH F'c= 3,000 P.S.I., PER 1905A.1.9 MADE WITH 1" MAX ASTM C-33 AGGREGATES PER ACI 318-14 SECTION 26.4.1.2 AND IN ACCORDANCE WITH CBC SECTION 1903A.4.5
3. MIX DESIGN SHALL BE PER ACI 318-14 SECTION 26.4.3.1
4. REINFORCING BARS SHALL BE A615, GRADE 60 MIN.
5. VENTILATION TO MEET REQUIREMENTS PER IR 16-1.16. PROVIDE MINIMUM 1 SQ. FT. OF NET FREE VENT SPACE PER 150 SQ. FT. (PROVIDE 2" MINIMUM CLEARANCE)
6. NOT USED.
7. TESTING OF REINFORCING BARS USED IN SINGLE STORY BUILDINGS MAY BE WAIVED PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED FOR EACH SHIPMENT OF SUCH REINFORCMENT (CBC 1913A.2).
8. CONCRETE MIX SHALL HAVE A MAXIMUM 0.50 WATER CEMENT RATIO.
9. ADD WATER REDUCING ADMIXTURE IN COMPLIANCE WITH ASTM C494 TYPE A.
10. CEMENTITIOUS FLY ASH OR SLAG MAY REPLACE A MAX. OF 20% OF CEMENT BY WEIGHT.

## 11 GENERAL NOTES

FOR USE:
1) 20 PSF ROOF LIVE LOAD W/ ~~50~~, 65, ~~125 & 150~~psf FLOOR LL.
2) ALL ROOF OPTIONS.
3) ALL EXTERIOR FINISH OPTIONS.

PRE CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.






## 9 INTERIOR FOOTING - 125 & 150 PSF
SCALE: 1 1/2"=1'-0"

## 6

## 5A

## 5

## 8

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST PASSEY No. S2030 STATE OF CALIFORNIA

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

CONCRETE FOUNDATION PLAN, FOOTING DETAILS & NOTES
(WOOD FLOORS)

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

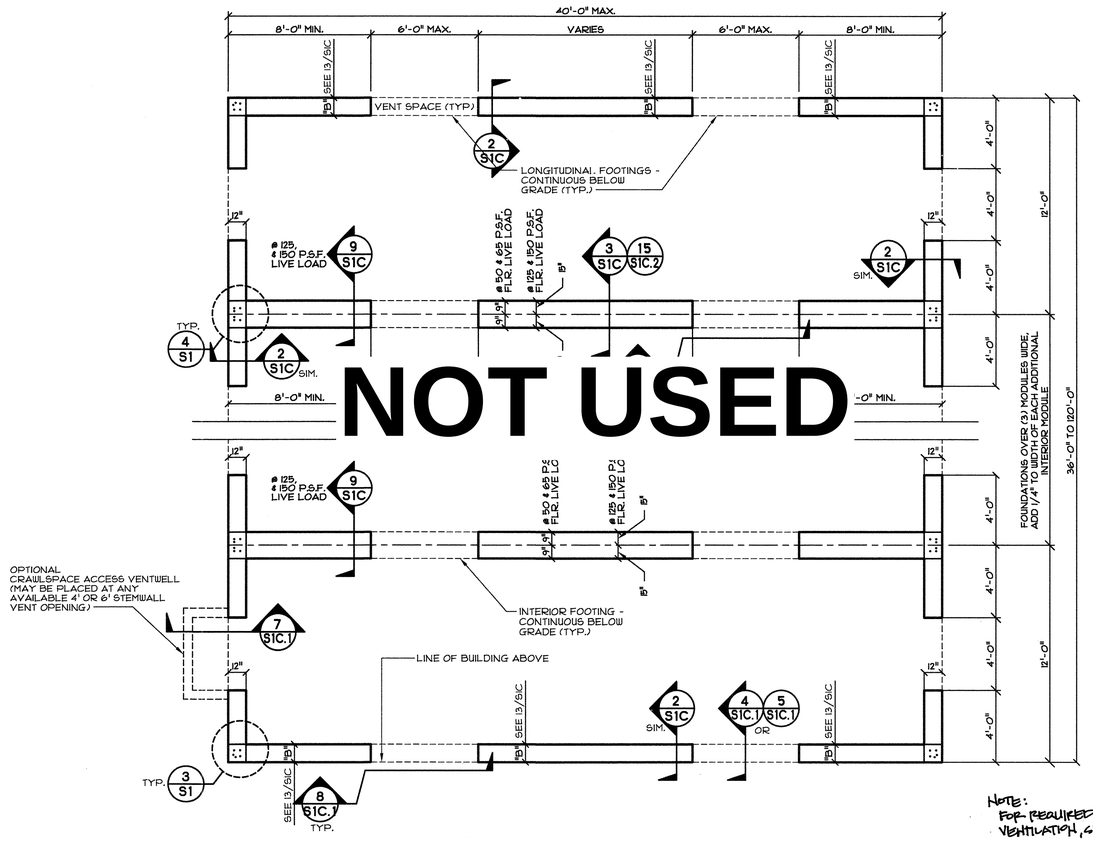
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
AC. FLS. ACS.
DATE 9-6-2018
2016 - 24x40

LOW SEISMIC

S1C

24'x40' TO 120'x40' P.C.

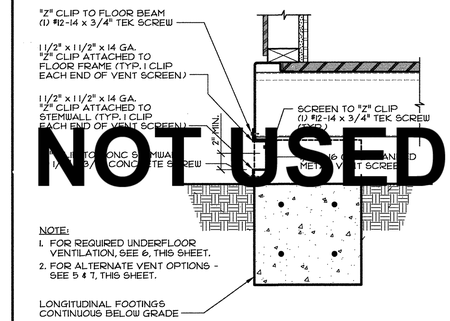
I:\CAD\2016 PC\2016 - 24x40\Drawings\2016 - 24x40 - S1C.dwg, 7/6/2018 1:34:59 PM




NOT USED

NOTE:
FOR REQUIRED UNDERFLOOR VENTILATION, SEE 6/S1C.1

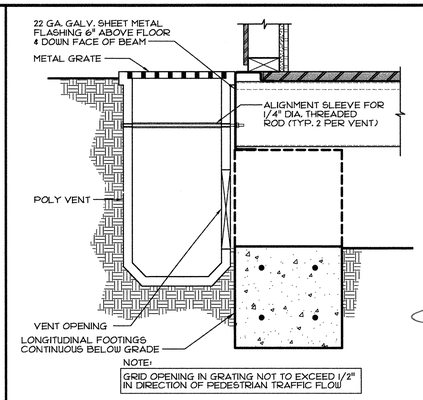
1 CONCRETE FOUNDATION PLAN (3 TO 10 MODULES)
SCALE: 1/4"=1'-0"




NOT USED

NOTE:
1. FOR REQUIRED UNDERFLOOR VENTILATION, SEE 6, THIS SHEET.
2. FOR ALTERNATE VENT OPTIONS - SEE 5 & 7, THIS SHEET.

4 VENT SCREEN DETAIL
SCALE: 1-1/2"=1'-0"



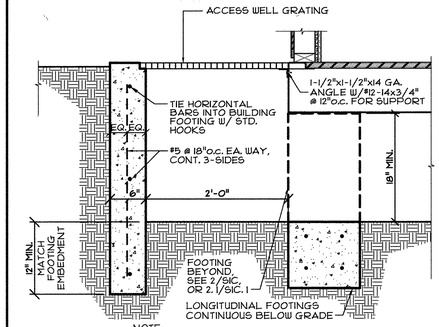

NOTE:
GRID OPENING IN GRATING NOT TO EXCEED 1/2" IN DIRECTION OF PEDESTRIAN TRAFFIC FLOW

5 POLYVENT DETAIL
SCALE: 1 1/2"=1'-0"

| NO. OF MODULES | 2 | ~~3~~ | ~~4~~ | ~~5~~ | ~~6~~ | ~~7~~ | ~~8~~ | ~~9~~ | ~~10~~ |
|---|---|---|---|---|---|---|---|---|---|
| EFFECTIVE NET AIR FLOW AREA (SQ/FT.) | 6.40 | 9.60 | 12.8 | 16.0 | 19.2 | 22.4 | 25.6 | 28.8 | 32.0 |

NOTE:
1) THE ACTUAL LOCATIONS AND SIZES OF UNDER FLOOR VENTILATION OPENINGS SHALL BE SHOWN ON THE FOUNDATION PLAN, OR FLOOR PLAN OF THE SITE SPECIFIC PROJECT.
2) VENTILATION OPENINGS SHALL BE FULLY COVERED WITH HARDWARE CLOTH OF 0.035 WIRE OR HEAVIER, EXTRUDED LOAD BEARING VENTS, OR CAST IRON GRILLES OR GRATINGS. THE LEAST DIMENSION IN THE VENT COVERING SHALL NOT BE GREATER THAN 1/4".

6 MIN. UNDERFLOOR VENTILATION REQ.

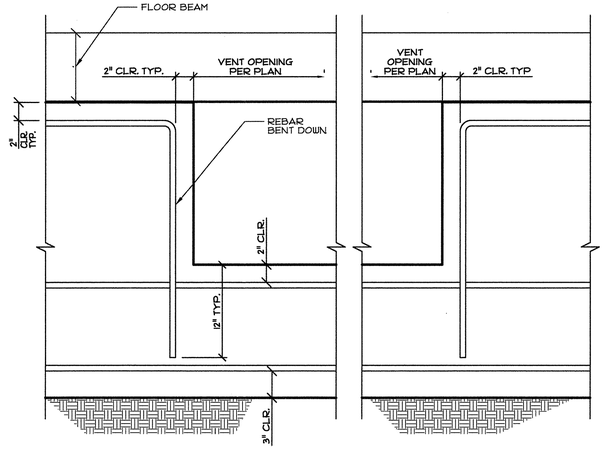



NOTE:
GRID OPENING IN GRATING NOT TO EXCEED 1/2" IN DIRECTION OF PEDESTRIAN TRAFFIC FLOW

7 ACCESS / VENT WELL
SCALE: 1"=1'-0"

NOTE:
SEE 2/S1C ~~OR 2.1/S1C1~~ FOR PERIMETER FOOTING REINFORCEMENT.

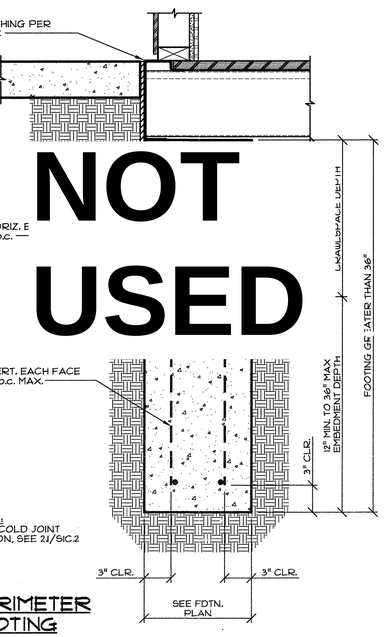
SEE 3/S1C ~~OR 3.1/S1C1~~ FOR INTERIOR FOOTING REINFORCEMENT.




8 FOOTING AT VENT OPENING
SCALE: NOT TO SCALE

FOR USE:
1) 20psf ROOF LIVE LOAD W/ ~~50~~, 65, ~~125 & 150~~psf FLOOR LIVE LOAD.
2) ALL ROOF OPTIONS.
3) ALL EXTERIOR FINISH OPTIONS.

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.

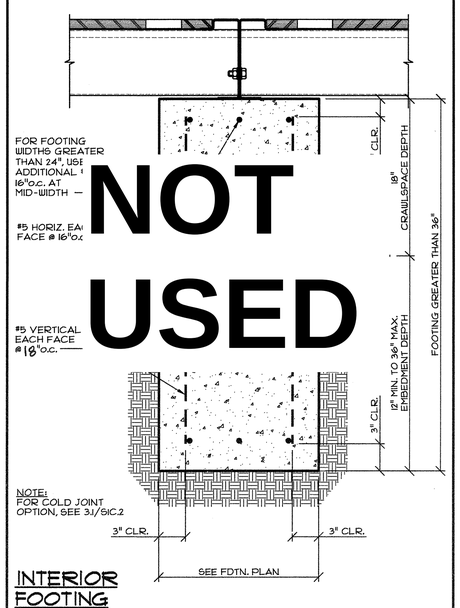



NOTE:
FOR COLD JOINT OPTION, SEE 2.1/S1C.2

PERIMETER FOOTING

NOT USED

2.1 FOOTING GREATER THAN 36" HT.
SCALE: 1 1/2"=1'-0"




NOTE:
FOR COLD JOINT OPTION, SEE 3.1/S1C.2

INTERIOR FOOTING

NOT USED

3.1 FOOTING GREATER THAN 36" HT.
SCALE: 1 1/2"=1'-0"

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

C STRUCTURA
2440 Natomas Park Drive, Suite 250 Sacramento, CA 95833
(916) 239-8000 www.cstruct.com

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

VARIABLE FOUNDATION PLAN, & ALTERNATE FOOTING DETAILS (WOOD FLOORS)

| REV / DATE: | BY: |
|---|---|
| | |
| | |
| | |

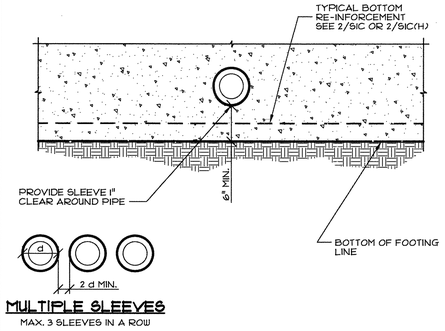
JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
AC ___ FLS ___ SS ~~ACC~~
DATE 9-6-2018
24x40 - 24x40

LOW SEISMIC

S1C.1

24'x40' TO 120'x40' P.C.

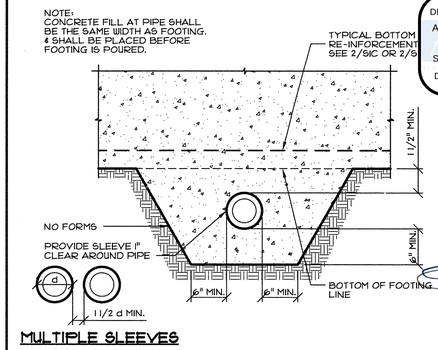



MULTIPLE SLEEVES

MAX. 3 SLEEVES IN A ROW

## 4 PIPE THROUGH FOOTING

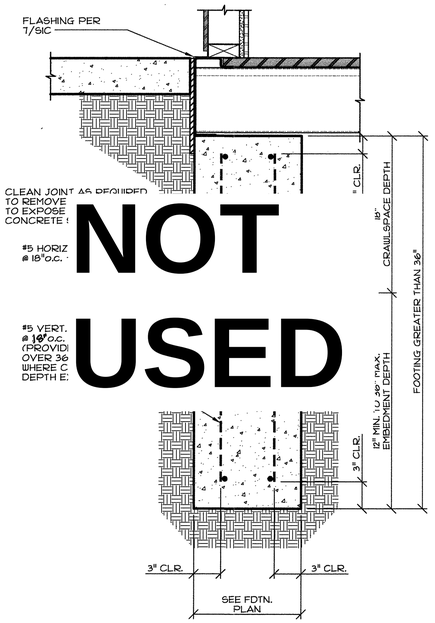
SCALE: 1"=1'-0"



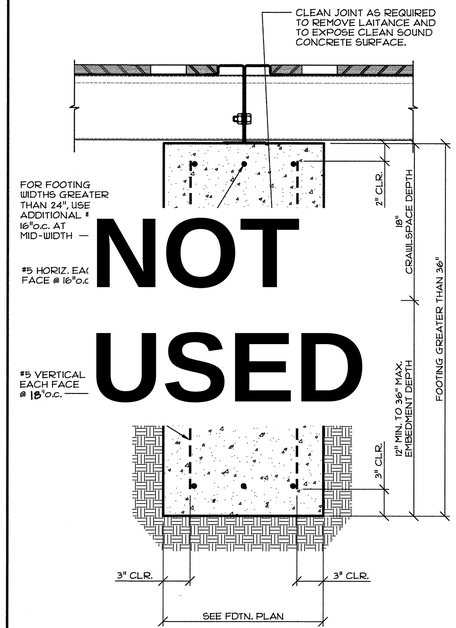

MULTIPLE SLEEVES

## 6 PIPE BELOW BOTTOM OF FOOTING

SCALE: 1"=1'-0"




PERIMETER FOOTING > THAN 36" HT.



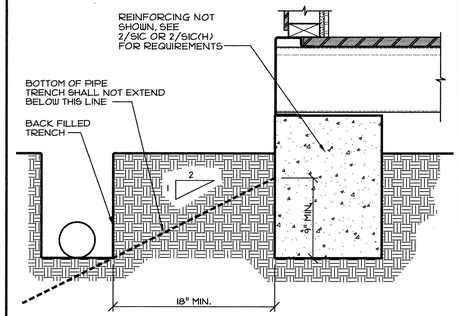

MODULE LINE FOOTING > THAN 36" HT.

## 2.1 HORIZONTAL COLD JOINT

SCALE: 1 1/2"=1'-0"

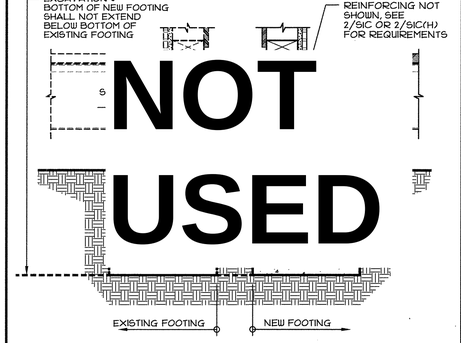
## 3.1 HORIZONTAL COLD JOINT

SCALE: 1 1/2"=1'-0"



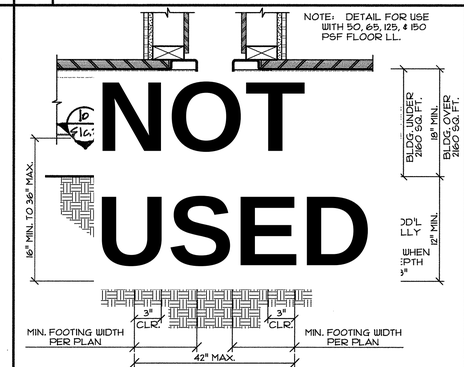

## 13 TRENCH PROXIMITY TO FOOTINGS

SCALE: 1 1/2"=1'-0"



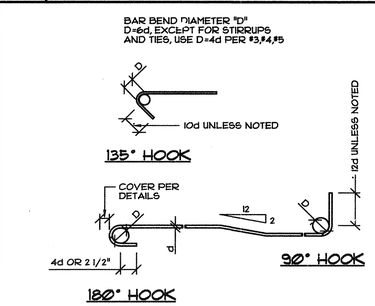

## 14 PROXIMITY OF NEW TO EXIST. FOOT.

SCALE: 1 1/2"=1'-0"




## 15 INTERIOR FOOTING @ SEISMIC GAP

SCALE: 1 1/2"=1'-0"




## 11 TYP. REINFORCING BAR BENDS

SCALE: NONE

## 12

## 8

## 9

## 10 EMBED WELD PLATES @ SEISMIC GAP

NOT USED

FOR USE:
1) 20 psf ROOF LIVE LOAD W/ ~~50~~, 65, ~~125 & 150~~psf FLOOR LL.
2) ALL ROOF OPTIONS.
3) ALL EXTERIOR FINISH OPTIONS.

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

STRUCTURA
3685 Sierra Court, Suite A, Stockton, CA 95219 (209) 956-1330 Fax (209) 956-0200

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

MISCELLANEOUS FOOTING DETAILS
( WOOD FLOORS)

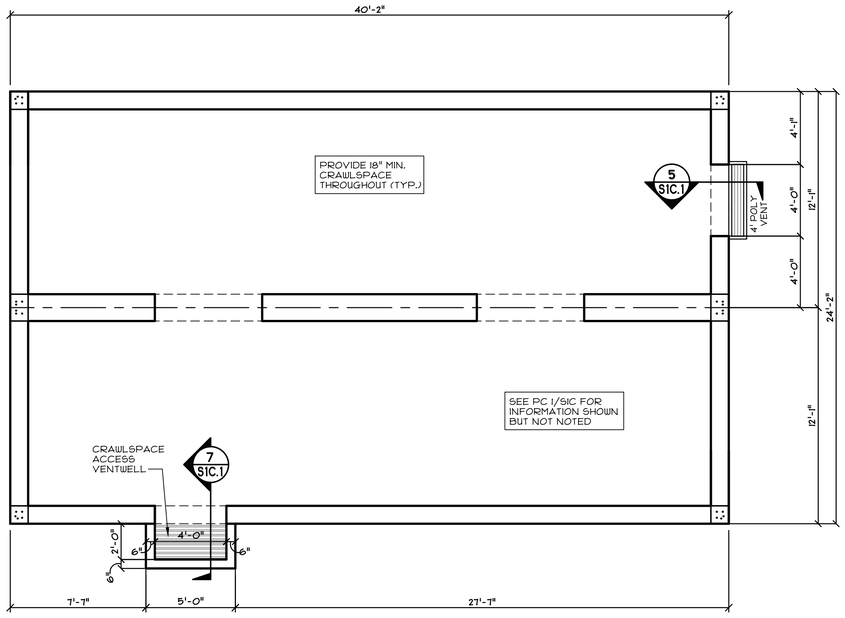
| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02-118094
AC FLS SS
DATE: 9-6-2018

S1C.2

24"x40" TO 12"x18" P.C.




NOTE:
4' POLY VENT = 2.25 SQ. FT. VENT AREA
6' POLY VENT = 3.19 SQ. FT. VENT AREA
ACCESS/VENT WELL = 6.0 SQ F.T VENT AREA

| UNDERFLOOR VENTILATION REQUIREMENTS | | |
|---|---|---|
| BUILDING SIZE | 24'-0" x 40' | |
| NET BUILDING AREA | 960 / 150 | |
| MIN. VENT AREA REQ'D. | 6.4 SQ. FT. | |
| | | |
| QTY. 6' VENTS | 0 | 0 SQ. FT. |
| QTY. 4' VENTS | 1 | 2.25 SQ. FT. |
| VENT WELL | 1 | 6 SQ. FT. |
| VENT AREA PROVIDED | | 8.25 SQ. FT. |

# CONCRETE FOUNDATION PLAN

SCALE: 1/4"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

CYS
STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 239-1300 Fax
(916) 924-0207 www.cysse.com

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
ETHAN ERNEST KESSEL
No. S2030
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

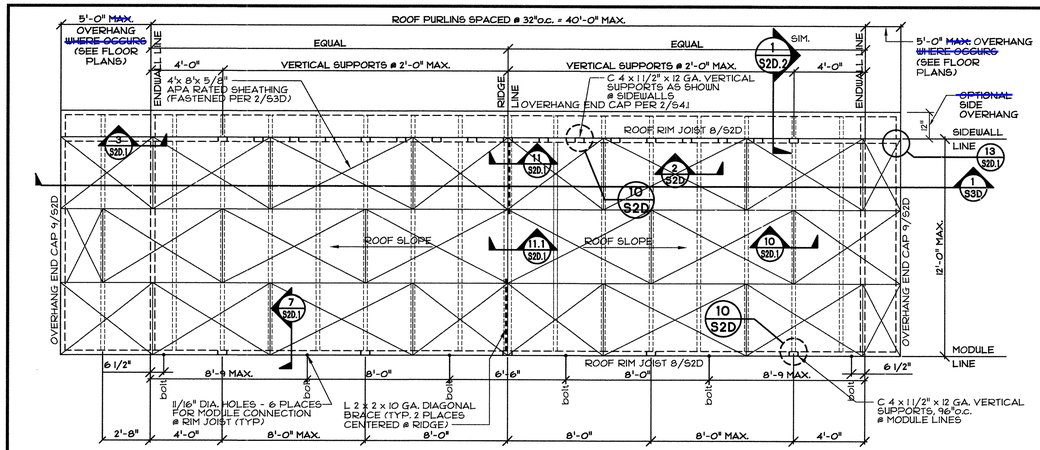
CONCRETE FOUNDATION PLAN
(WOOD FLOORS)

| REV / DATE: | BY: |
|---|---|
| | |

| | |
|---|---|
| JOB No.: | 19-000 |
| DRAWN BY: | RS |
| DATE: | 12/17/2019 |

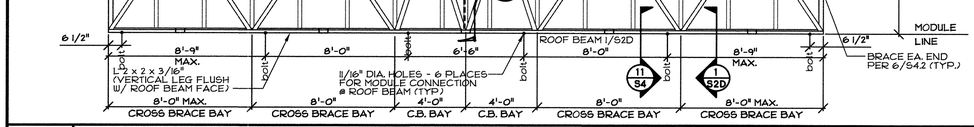
LOW SEISMIC

S1C.6



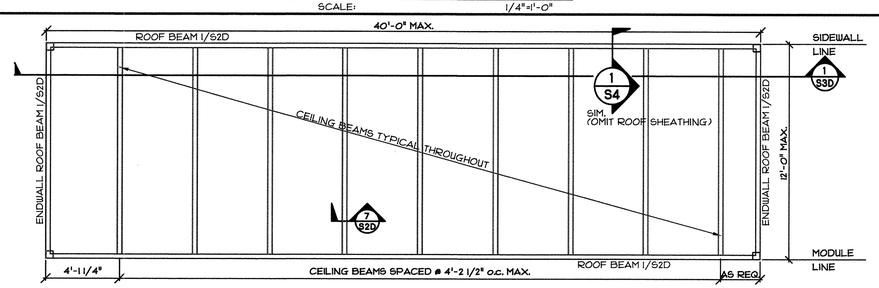

## 13 ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"



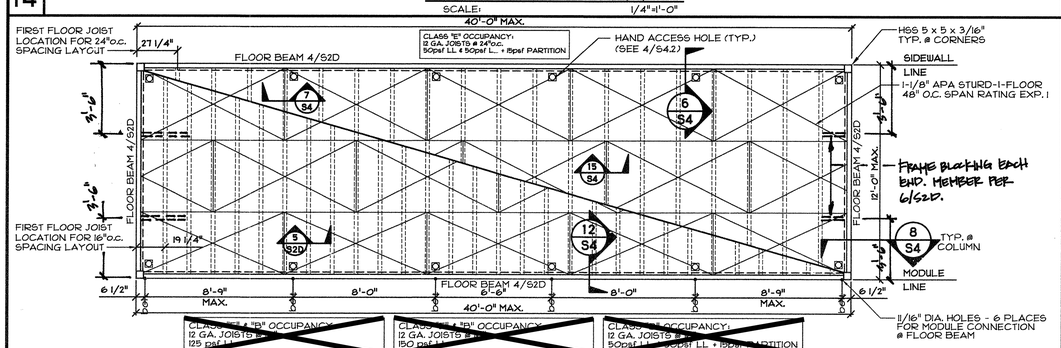

## 13.1 SUB-ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"



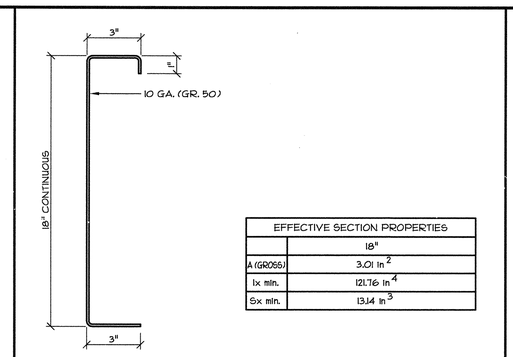

## 14 CEILING FRAMING PLAN

SCALE: 1/4"=1'-0"




## 15 FLOOR FRAMING PLAN

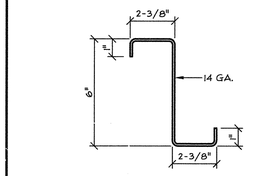
SCALE: 1/4"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| | 18" |
| A (GROSS) | 3.01 $in^2$ |
| Ix min. | 121.76 $in^4$ |
| Sx min. | 13.14 $in^3$ |

## 1 ROOF BEAM SECTION

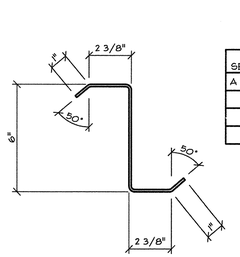
SCALE: 3"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.81 $in^2$ |
| Ix min. | 4.83 $in^4$ |
| Sx min. | 1.61 $in^3$ |

## 2 ROOF PURLIN SECT.

SCALE: 3"=1'-0"

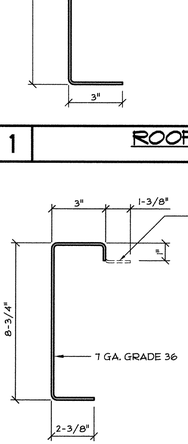



| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.886 $in^2$ |
| Ix min. | 5.06 $in^4$ |
| Sx min. | 1.687 $in^3$ |
| GA. | 14 |

FOR USE WITH:
ROOFS - ALL CONDITIONS
FLOORS - 50psf & 50psf + 15psf PARTITION @ 16"o.c. MAX.

## 3 ALT. ROOF PURLIN / FLOOR JOIST

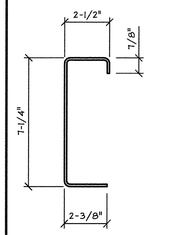
SCALE: 3"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 2.55 $in^2$ |
| Ix min. | 27.11 $in^4$ |
| Sx min. | 5.71 $in^3$ |
| GA. | 7 |

## 4 FLOOR BEAM SECTION

SCALE: 3"=1'-0"



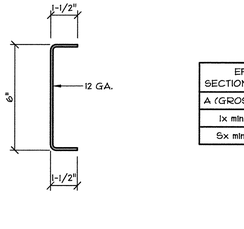

| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.59 $in^2$ |
| Ix min. | 6.96 $in^4$ |
| Sx min. | 1.81 $in^3$ |
| GA. | 14 |

| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 1.26 $in^2$ |
| Ix min. | 9.68 $in^4$ |
| Sx min. | 2.53 $in^3$ |
| GA. | 12 |

| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 1.83 $in^2$ |
| Ix min. | 11.58 $in^4$ |
| Sx min. | 3.03 $in^3$ |
| GA. | 10 |

## 5 FLOOR JOIST SECTION

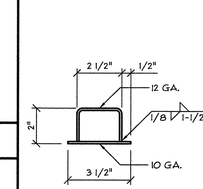
SCALE: 3"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | .881 $in^2$ |
| Ix min. | 4.251 $in^4$ |
| Sx min. | 1.381 $in^3$ |

## 6 FRAME BLOCKING SECTION

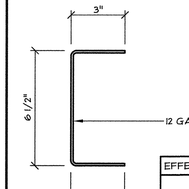
SCALE: 3"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 1.05 $in^2$ |
| Ix min. | 0.67 $in^4$ |
| Iy min. | 1.10 $in^4$ |
| Sx min. | 0.829 $in^3$ |
| Sy min. | 0.631 $in^3$ |

## 7 CEILING BEAM SECTION

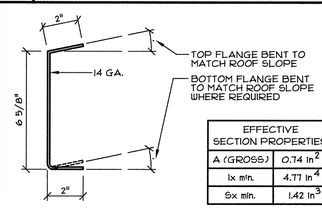
SCALE: 3"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| | 6 1/2" |
| A (GROSS) | 1.23 $in^2$ |
| Ix min. | 8.17 $in^4$ |
| Sx min. | 2.52 $in^3$ |

## 8 ROOF RIM JOIST SECTION

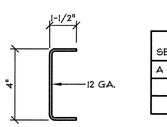
SCALE: 3"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.74 $in^2$ |
| Ix min. | 4.77 $in^4$ |
| Sx min. | 1.42 $in^3$ |

## 9 OVERHANG END CAP

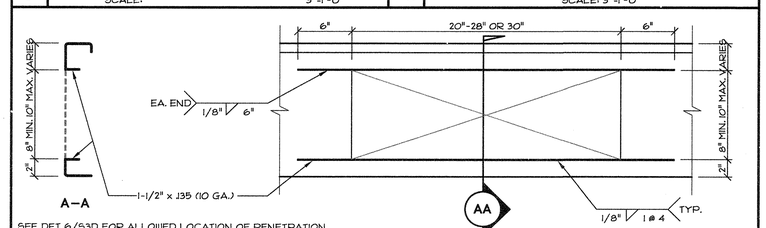
SCALE: 3"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | .67 $in^2$ |
| Ix min. | 1.56 $in^4$ |
| Sx min. | .78 $in^3$ |

## 10 VERTICAL SUPPORTS

SCALE: 3"=1'-0"




SEE DET 6/S3D FOR ALLOWED LOCATION OF PENETRATION.

## 11 HVAC PENETRATION @ ENDWALL ROOF BEAM

SCALE: 1-1/2"=1'-0"

1. ALL LIGHT GAGE STEEL SHALL BE ASTM A101 GRADE 36. UNLESS OTHERWISE NOTED
2. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 GRADE B Fy=46
3. ALL STRUCTURAL STEEL PLATES, ANGLES, CHANNELS, BARS & MISC. SHAPES SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.
4. ALL MACHINE BOLTS SHALL BE ASTM A307.
5. WELDING SHALL BE DONE PER AWS D 1.8 - D6.3.
6. WELDING INSPECTION TO BE PER C.B.C. SECTION 1705A.2.2.5
7. SEE TESTS AND INSPECTIONS REPORT SHEET A0 FOR REQUIREMENTS.
8. LIGHT GAGE METAL & FRAMING THICKNESSES

| GAGE | DESIGN THICKNESS | MIN. DELIVERED THICKNESS |
|---|---|---|
| 7 GA. STEEL | 0.1793" | 0.170" |
| 10 GA. STEEL | 0.1240" | 0.118" |
| 12 GA. STEEL | 0.1017" | 0.0966" |
| 14 GA. STEEL | 0.0713" | 0.0677" |

R = 3/16" MAX.
TYPICAL CORNER RADIUS

9. MINIMUM STEEL THICKNESS SHALL NOT BE LESS THAN 95% OF THE DESIGN THICKNESS PER A151 - GENERAL AND A151 - NAS.

## STEEL SPECIFICATION

1. ALL STRUCTURAL PLYWOOD AND ORIENTED STRAND BOARD SHALL BE MANUFACTURED TO PRODUCT STANDARD DOC PS-1 (PLYWOOD), DOC PS-2 (O.S.B.), INSPECTED AND GRADE MARKED AT THE MILL BY AN APPROVED QUALITY CONTROL AGENCY SUCH AS APA OR TECO.
2. ROOF SHEATHING SHALL BE 4'x 8'x 5/8" GRADE MARKED 32/16 SPAN INDEX, EXP. 1 (PLYWOOD OR OSB).
3. FLOOR SHEATHING SHALL BE 4'x 8'x 1-1/8" T & G APA OR TECO RATED UNDERLAYMENT GRADE STURD-I-FLOOR OR EQUAL, SPAN RATING = 48"
4. WALL SHEATHING SHALL BE 3/8" HARD BOARD SIDING APA EXTERIOR TYPE 303 GROUP II MDO, EXTERIOR GROUP II, 1/2" APA RATED CDX PLYWOOD OR ORIENTED STRAND BOARD.
5. SEE FASTENER SCHEDULE, SHEET "S3FA".

## SHEATHING SPECIFICATION

DIVISION OF THE STATE ARCHITECT

PRE CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



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DATE: 04/10/2020

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REGISTERED PROFESSIONAL ENGINEER — ARTHUR ERNEST ROSS — No. S2030 — STRUCTURAL — STATE OF CALIFORNIA

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

VARIABLE SLOPE ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES

| REV / DATE: | BY: |
|---|---|
| | |

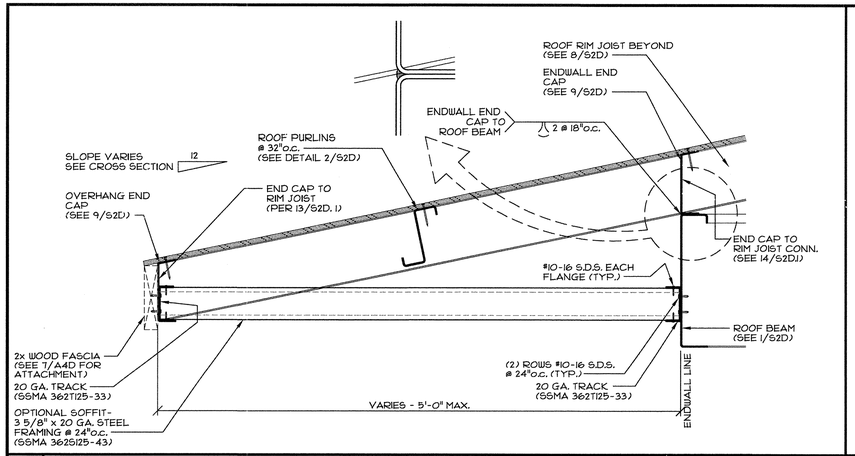
JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
AC. — FLS. — SS
DATE 9-6-2018

LOW SEISMIC

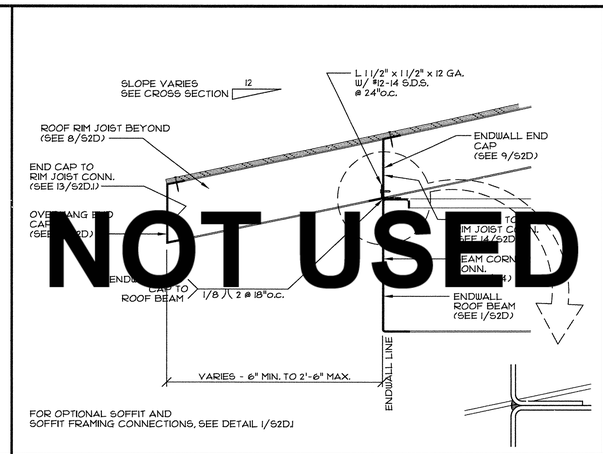
S2D

24"x40" TO 120"x40" P.C.




## 1 EAVE SECTION - 5'-Ø" OVERHANG

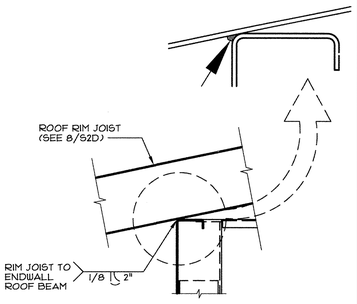
SCALE: 1 1/2"=1'-0"




NOT USED

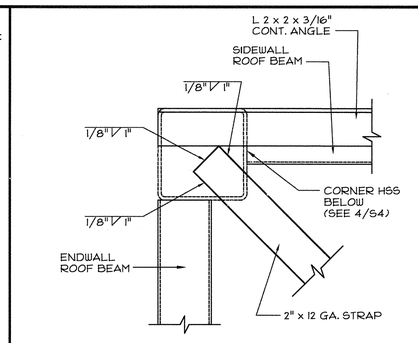
## 2 EAVE SECTION - 2'-6" OVERHANG

SCALE: 1 1/2"=1'-0"



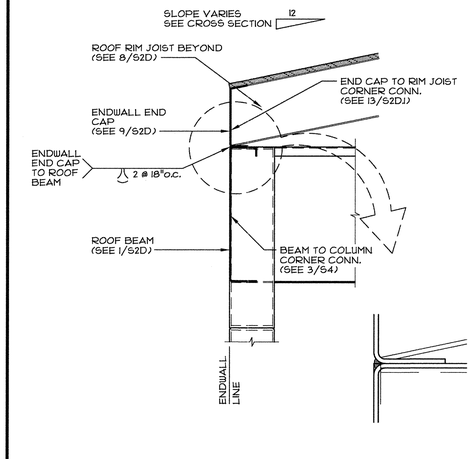

## 3 RIM JOIST @ ROOF GIRDER

SCALE: 1 1/2"=1'-0"



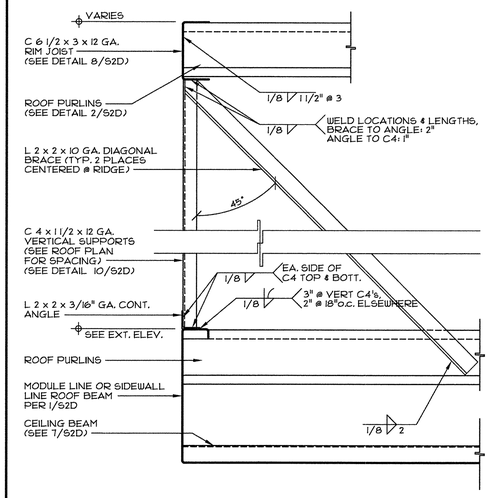

## 4 CROSS BRACE - @ CORNER

SCALE: 3"=1'-0"



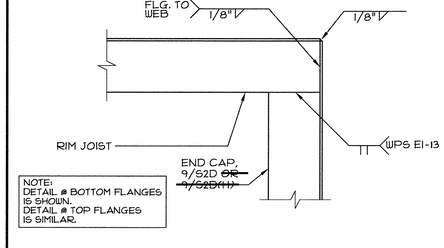

## 5 EAVE SECTION - NO OVERHANG

SCALE: 1 1/2"=1'-0"




## 6 RIDGE LINE DIAGONAL BRACE

SCALE: 1 1/2"=1'-0"



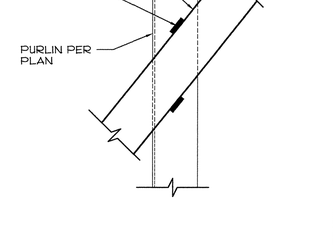

## 13 BEAMS @ CORNERS

SCALE: 3"=1'-0"



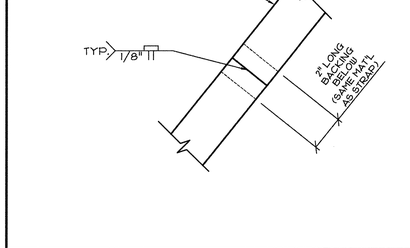

## 7 RIM JOIST CONN. @ MODULE LINE

SCALE: 3"=1'-0"



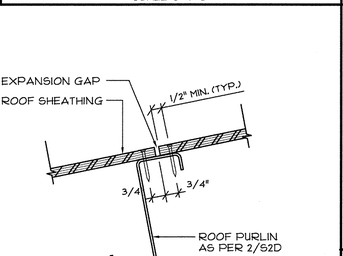

## 8 CROSS BRACE - @ PURLIN

SCALE: 3"=1'-0"



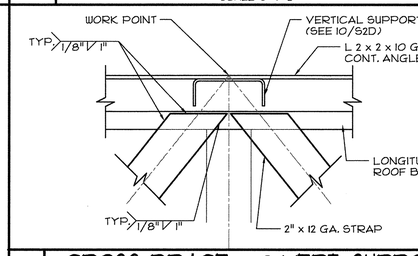

## 8.1 CROSS BRACE - SPLICE

SCALE: 3"=1'-0"



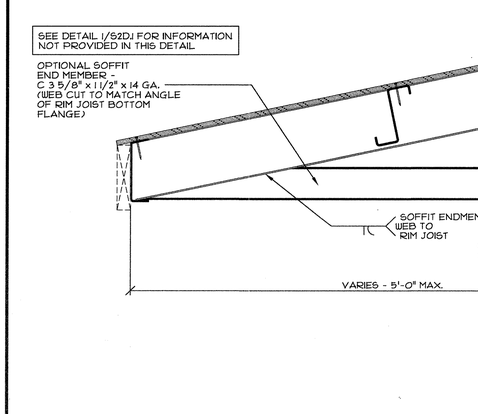

## 10 ROOF SHEATHING ATTACH.

SCALE: 3"=1'-0"




## 9 CROSS BRACE - @ VERT. SUPPORT

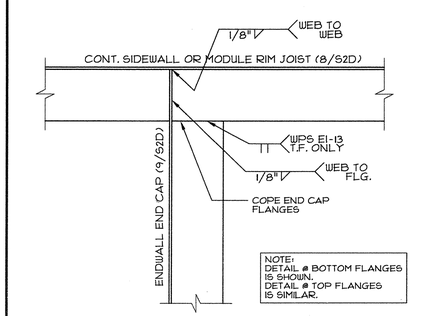
SCALE: 3"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A | 0.41 in² |
| Ix min. | 0.87 in⁴ |
| Sx min. | 0.46 in³ |

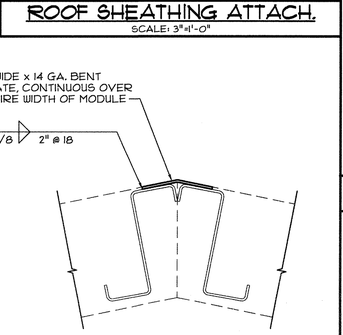
## 12 ENDMEMBER FOR SOFFIT

SCALE: 1 1/2"=1'-0"



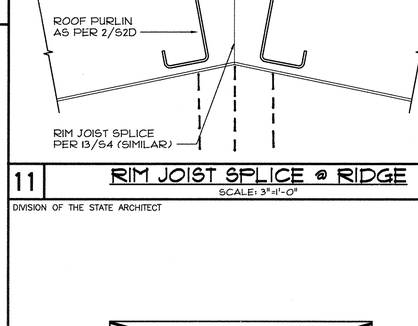

## 14 END CAP TO RIM JOIST

SCALE: 3"=1'-0"




## 11.1 RIDGE CAP CONNECTION

SCALE: 3"=1'-0"




## 11 RIM JOIST SPLICE @ RIDGE

SCALE: 3"=1'-0"

DIVISION OF THE STATE ARCHITECT

PRE CHECK ( PC) DOCUMENT
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APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER — ARTHUR ERNEST ROSS — No. S2030 — STRUCTURAL — STATE OF CALIFORNIA

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CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

# VARIABLE SLOPE ROOF STRUCTURAL DETAILS

| REV / DATE: | BY: |
|---|---|
| | |

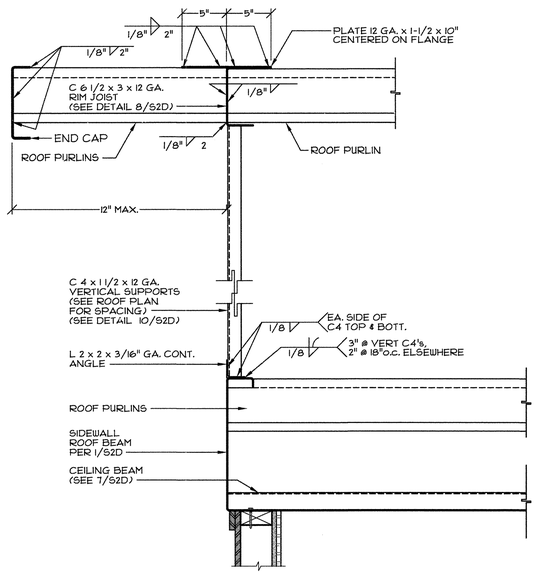
JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
AC FLS SS
DATE 9-6-2018

24"x40" TO 120"x40" P.C.

S2D.1

I:\CAD\2016 PC\2016 - 24x40\Drawings\2016 - 24x40 - S2D-1.dwg, 6/25/2018 4:06:55 PM




1 SIDEWALL OVERHANG DETAIL

SCALE: 1 1/2"=1'-0"

IDENTIFICATION STAMP
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APP. 02-118017 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER CHRISTIAN ERNEST ACOSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

VARIABLE SLOPE ROOF STRUCTURAL DETAILS

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| | |

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02-118094
AC. FLS. SS ACS
DATE 9-6-2018

S2D.2

DIVISION OF THE STATE ARCHITECT

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24"x40" TO 120"x40" P.C.

I:\CAD\2016 PC\2016 - 24x40\Drawings\2016 - 24x40 - S2D-2.dwg, 6/25/2018 2:50:09 PM

## FOR BUILDINGS ON WOOD FOUNDATIONS
(NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE)

### SCREWS - #10 S.M.S. (AISI S213-07, SECTION D)

NOTE: SCREWS SHALL EXTEND THROUGH STEEL WITH A MIN. OF (3) EXPOSED THREADS.

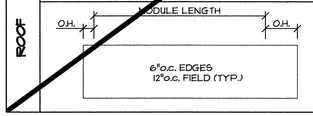
**SUBFLOORING**

I-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS

| | 50 PSF | 65 PSF | 125 PSF |
|---|---|---|---|
| LOW SEISMIC | 6"o.c. EDGES 12"o.c. FIELD | | |
| HIGH SEISMIC | 6"o.c. EDGES 12"o.c. FIELD | | |

**ROOF**

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS




## FOR BUILDINGS ON CONCRETE FOUNDATIONS
(NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE)

### SCREWS - #10 S.M.S. (AISI S213-07, SECTION D)

NOTE: SCREWS SHALL EXTEND THROUGH STEEL WITH A MIN. OF (3) EXPOSED THREADS.

**SUBFLOORING**

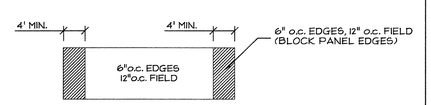
I-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS

| | 50 PSF | 65 PSF | 125 PSF | 150 PSF |
|---|---|---|---|---|
| LOW SEISMIC | | 6"o.c. EDGES 12"o.c. FIELD | | |
| HIGH SEISMIC | | 6"o.c. EDGES 12"o.c. FIELD | | |

3/4" USG "LEVELROCK" FLOOR TOPPING OVER 3/8" SOUND REDUCTION BOARD OVER 1 1/8" T&G STURD-I-FLOOR PLY SHEATHING

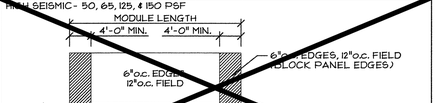
| | 50 PSF | 65 PSF | 125 PSF | 150 PSF |
|---|---|---|---|---|
| LOW SEISMIC | 6"o.c. EDGES 12"o.c. FIELD | | | PER DIAGRAM BELOW ** |
| HIGH SEISMIC | PER DIAGRAM BELOW *** | | | |

LOW SEISMIC- 150 PSF




** SUBFLOORING FASTENING/BLOCKING PATTERN (ONLY FOR CONDITIONS MARKED W/ AN ASTERISK IN THE TABLES ABOVE)

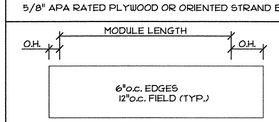
HIGH SEISMIC- 50, 65, 125, & 150 PSF




*** SUBFLOORING FASTENING/BLOCKING PATTERN (ONLY FOR CONDITIONS MARKED W/ AN ASTERISK IN THE TABLES ABOVE)

**ROOF**

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS




## FOR BUILDINGS ON WOOD FOUNDATIONS
(NOTE: ALL DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE)

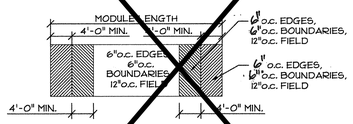
### E.T.& F. - AKN 144 x 1 3/4" PIN (UES ER 335)

**SUBFLOORING**

I-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS

| | 50 PSF | 65 PSF | 125 PSF |
|---|---|---|---|
| LOW SEISMIC | PER DIAGRAM * | | |
| HIGH SEISMIC | PER DIAGRAM * | | |

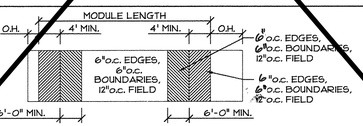
LOW & HIGH SEISMIC - 50, 65, & 125 PSF




* SUBFLOORING FASTENING/BLOCKING PATTERN (ONLY FOR CONDITIONS MARKED W/ AN ASTERISK IN THE TABLES ABOVE)

**ROOF**

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS




## FOR BUILDINGS ON CONCRETE FOUNDATIONS
(NOTE: ALL DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE)

### E.T.& F. - AKN 144 x 1 3/4" PIN (UES ER 335)

**SUBFLOORING**

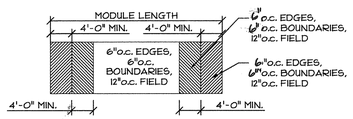
I-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS

| | 50 PSF | 65 PSF | 125 PSF | 150 PSF |
|---|---|---|---|---|
| LOW SEISMIC | | PER DIAGRAM ** | | |
| HIGH SEISMIC | | PER DIAGRAM ** | | |

3/4" USG "LEVELROCK" FLOOR TOPPING OVER 3/8" SOUND REDUCTION BOARD OVER 1 1/8" T&G STURD-I-FLOOR PLY SHEATHING

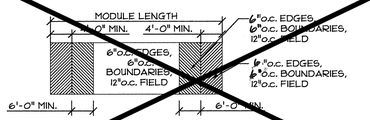
| | 50 PSF | 65 PSF | 125 PSF | 150 PSF |
|---|---|---|---|---|
| LOW SEISMIC | | PER DIAGRAM ** | | |
| HIGH SEISMIC | | PER DIAGRAM *** | | |

LOW SEISMIC [redacted], 65, [redacted] PSF




** SUBFLOORING FASTENING/BLOCKING PATTERN (ONLY FOR CONDITIONS MARKED W/ AN ASTERISK IN THE TABLES ABOVE)

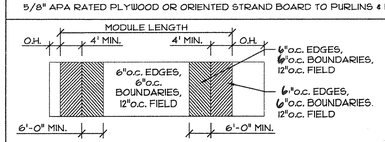
HIGH SEISMIC - 50, 65, 125, & 150 PSF




*** SUBFLOORING FASTENING/BLOCKING PATTERN (ONLY FOR CONDITIONS MARKED W/ AN ASTERISK IN THE TABLES ABOVE)

**ROOF**

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS




## WALL TO FRAME FASTENING:

- WALL PANEL TOP PLATE TO PERIMETER ROOF BEAM. ..... (1) 1/4"ø x 2 1/2" LAG SCREWS FROM ROOF BEAM BOTT. FLANGE INTO TOP PLATE @ 15"o.c. MAX.
- WALL PANEL BOTTOM PLATE TO PERIMETER FLOOR BEAM. ..... 1/4"-20 TEKS/4 SCREWS @ 16"o.c. FROM BOTT. PLATE INTO FLOOR BEAM TOP FLANGE
- WALL PANEL SIDE STUDS TO HSS CORNER COLUMNS ..... #12-24 x 2 1/2" S.D.S. @ 16"o.c. FROM SIDE STUD INTO STEEL CORNER COLUMN.
- TOP AND BOTTOM PLATE TO STUDS AND KING STUDS ..... (3) .135 x 3 1/4" LONG MACHINE NAIL
- DOUBLE STUDS, TRIMMERS, SILLS AND CRIPPLES STICH NAILED ..... .135 x 3 1/4" LONG MACHINE NAILS @ 8"o.c.
- CRIPPLES, TRIMMERS END NAILED TO PLATES AND SILLS. ..... (3) .135 x 3 1/4" LONG MACHINE NAIL EA. END
- CRIPPLES, TRIMMERS. NAILED TO HEADERS. ..... (3) .135 x 3 1/4" LONG MACHINE NAIL
- ALL HANGERS, STRAPS, CLIPS, ETC. ..... NAILED AS PER MANUFACTURERS SPECS.
- FASTENING CONDITIONS NOT ADDRESSED ABOVE. ..... TABLE 2304.10.1, 2016 C.B.C.

## SHEATHING NAILING & NOTES:

1. DO NOT CRUSH SHEATHING FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE, OR HAND NAILS.
2. UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
3. REMOVE AND REPLACE NAILS DRIVEN THAT MISS FRAMING OR SUPPORT.
4. ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
5. H.D.G.= HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. F.T OF ZINC. OR MECHANICALLY GALVANIZED PER ASTM. F-1667.
6. FOR BLOCKED DIAPHRAGMS, BLOCK PANEL EDGES PER 11/S4. 1.
7. MINIMUM SHEATHING PANEL WIDTH SHALL BE 24" PER AISI S213, D3.2

| SIDING | |
|---|---|
| EXTERIOR SIDING | INTO 2x4 OR 2x6 WOOD STUDS; .131" x 2 1/2" @ 6"o.c. PANEL EDGES, 12"o.c. IN FIELD. (H.D.G. OR MECH. GALV. NAILS, PER ASTM F-1667). INTO STEEL COLUMNS; #12-24 x 2" S.D.S. @ 24"o.c. |

| GYPSUM WALLBOARD | |
|---|---|
| 1/2" GYP. BOARD TO 2x4 OR 2x6 STUDS | .121 x 11/2" COATED NAILS @ 8"o.c. EDGES, 8"o.c. IN FIELD. |

| OVERHANG SOFFIT | |
|---|---|
| 1/2" APA RATED SHEATHING | #8 x 1" S.M.S. @ 12"o.c. EDGES, 12"o.c. IN FIELD (PRE-PUNCHED HOLES IN STEEL.) |

PRE-CHECK (PC) DOCUMENT
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CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

FASTENING SCHEDULE & NOTES

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
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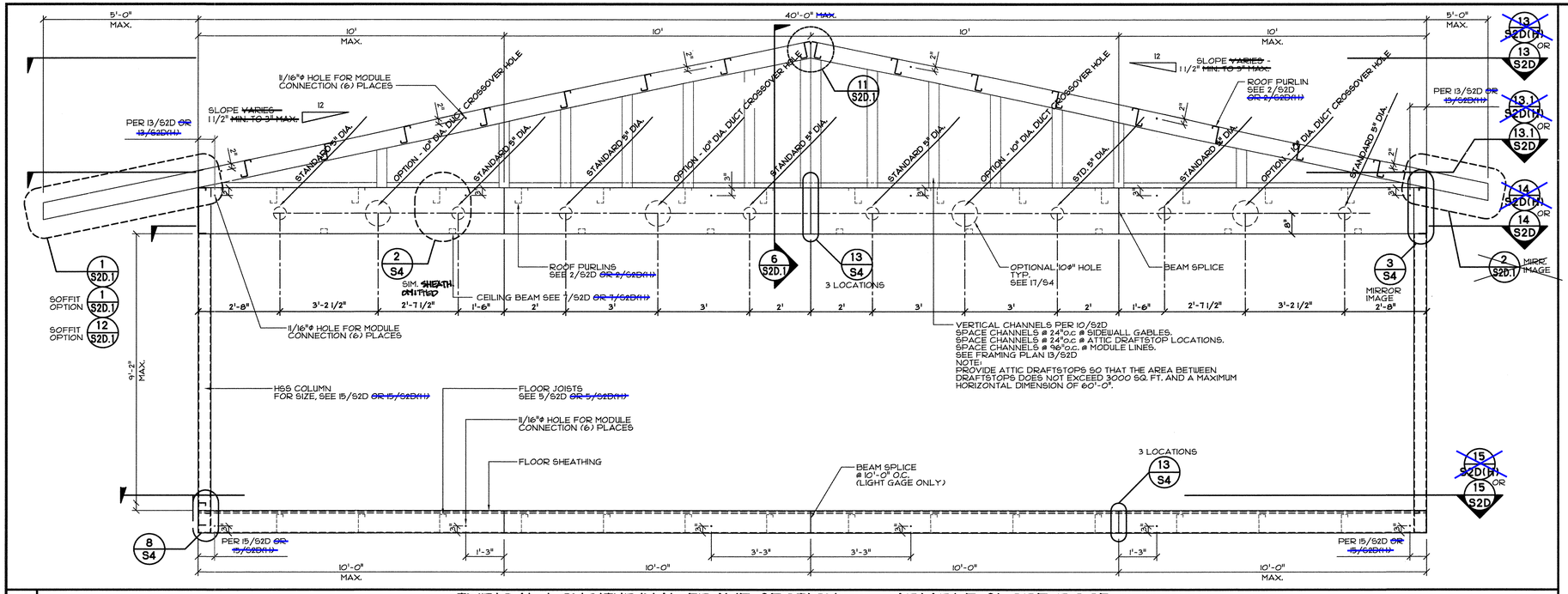
FC-6.2
02-118094
AC. FLS. SS
DATE 9-6-2018

2018 - 24x40

S3FA

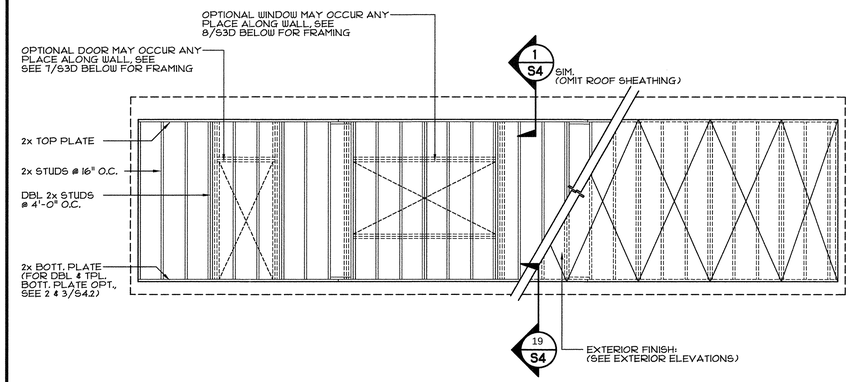
24'x40' TO 120'x40' P.C.

I:\CAD\2016 PC\2016 - 24x40\Drawings\2016 - 24x40 - S3FA.dwg, 8/1/2018 3:55:25 PM




1 TYPICAL LONGITUDINAL FRAME SECTION - VARIABLE SLOPE ROOF

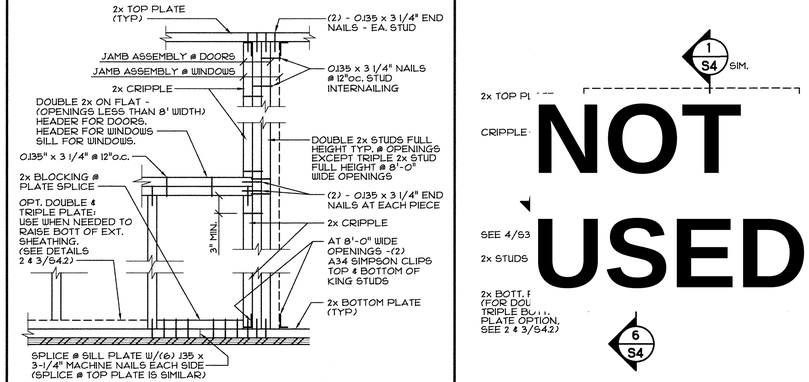
SCALE: 1/2"=1'-0"




NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

3 TYPICAL SIDEWALL FRAMING ELEVATION

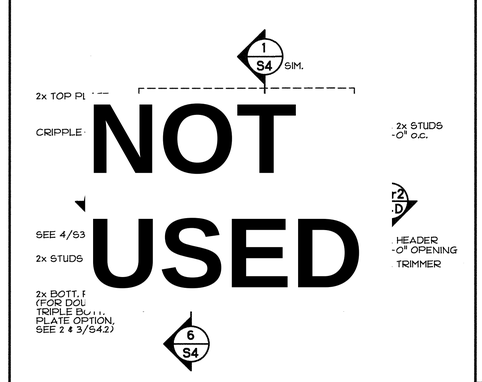
SCALE: 1/4"=1'-0"




NOTE: 2x4 OR 2x6 STUDS MAY BE USED. SEE "NAILING SCHEDULE", SHEET S3FA

4 STUD NAILING DETAIL

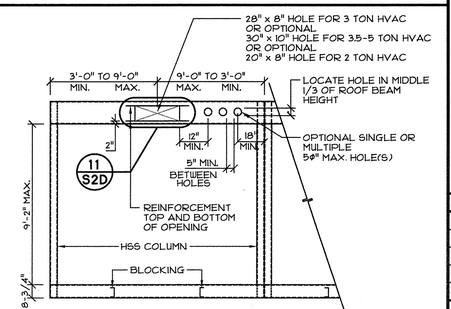
SCALE: 1"=1'-0"




NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

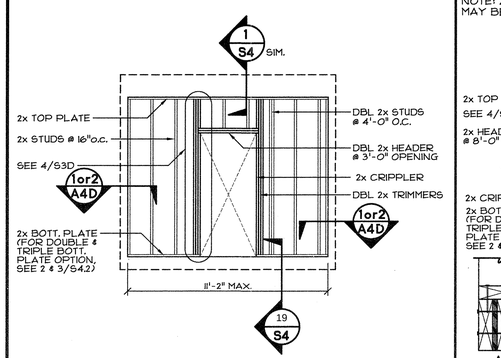
5 WALL FRAMING - INTERIOR HVAC

SCALE: 1/4"=1'-0"




6 END FRAME ELEVATION

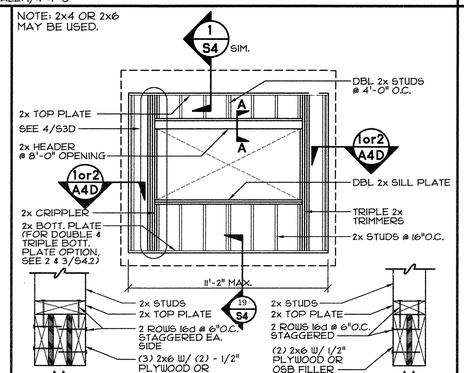
SCALE: 1/4"=1'-0"




NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

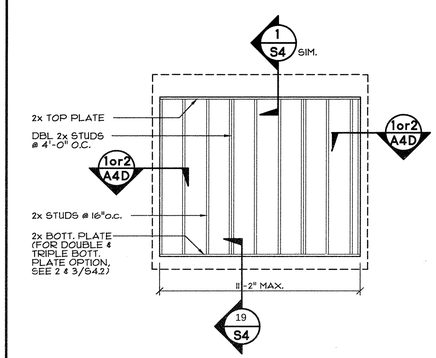
7 WALL FRAMING - EXTERIOR DOOR

SCALE: 1/4"=1'-0"




8 WALL FRAMING - EXTERIOR WINDOW

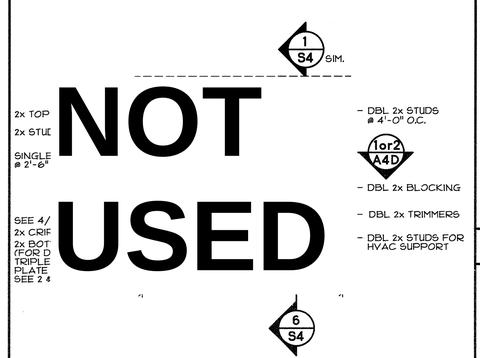
SCALE: 1/4"=1'-0"




NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

9 WALL FRAMING - TYP. 12'-0" WALL

SCALE: 1/4"=1'-0"




NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

10 WALL FRAMING - EXTERIOR HVAC

SCALE: 1/4"=1'-0"

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

VARIABLE SLOPE ROOF
LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION

| REV / DATE: | BY: |
|---|---|
| | |

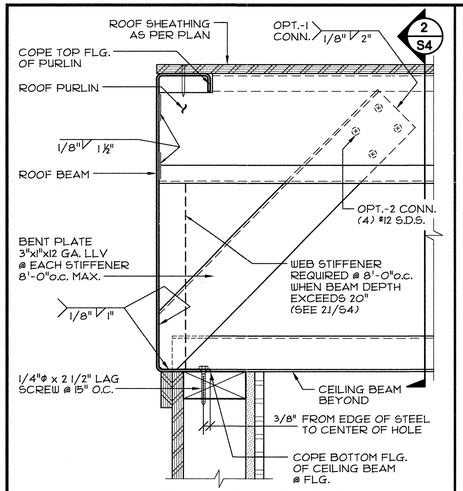
JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
AC FLS SS 6860
DATE 9-6-2018

24x40 TO 12x20x40 P.C.

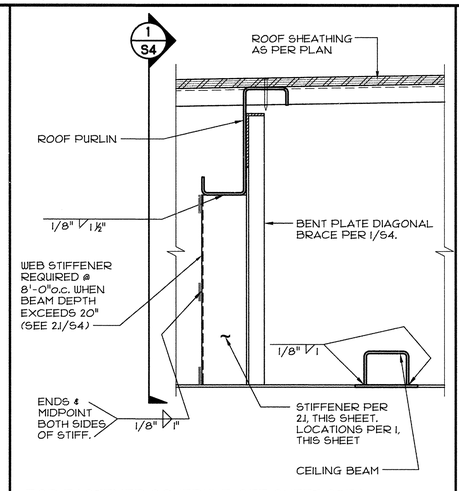
S3D

I:\CAD\2016 PC\2016 - 24x40\Drawings\2016 - 24x40 - S3D.dwg, 7/27/2018 1:27:55 PM



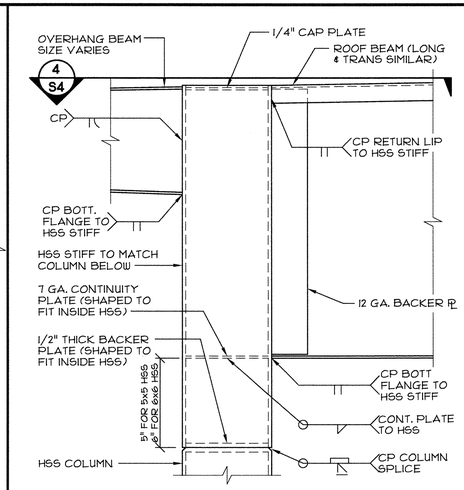

FOR FASTENER SCHEDULE, SEE SHEET S3FA

## 1 ROOF BEAM SECTION @ PURLIN
SCALE: 3"=1'-0"

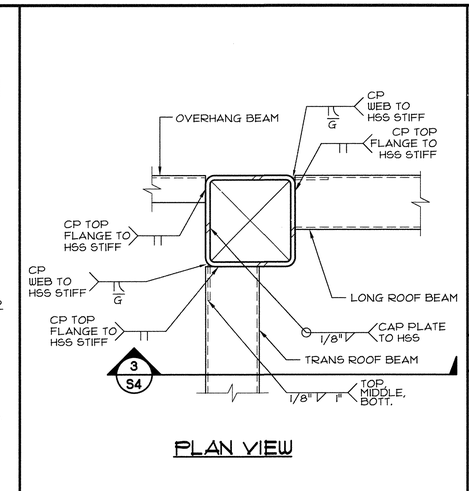



FOR FASTENER SCHEDULE, SEE SHEET S3FA

## 2 PURLIN TO STIFFENER AT BEAM
SCALE: 3"=1'-0"

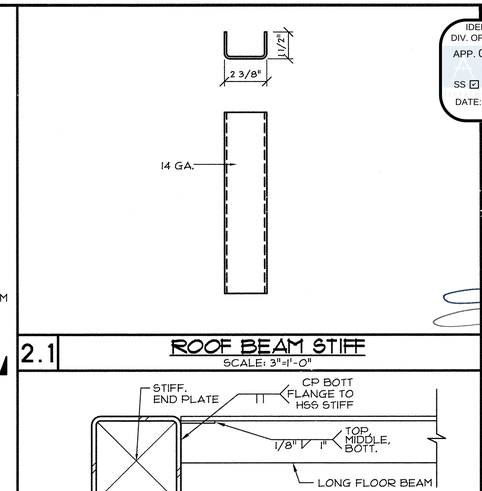



## 3 ROOF BEAM @ CORNER - SECTION
SCALE: 3"=1'-0"

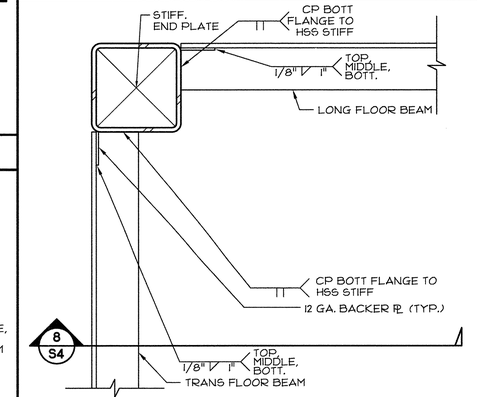



PLAN VIEW

## 4 ROOF BEAM @ CORNER
SCALE: 3"=1'-0"



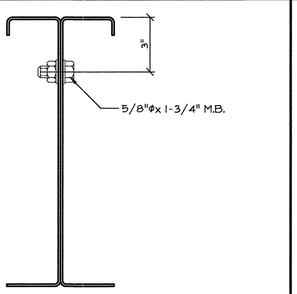

## 2.1 ROOF BEAM STIFF
SCALE: 3"=1'-0"



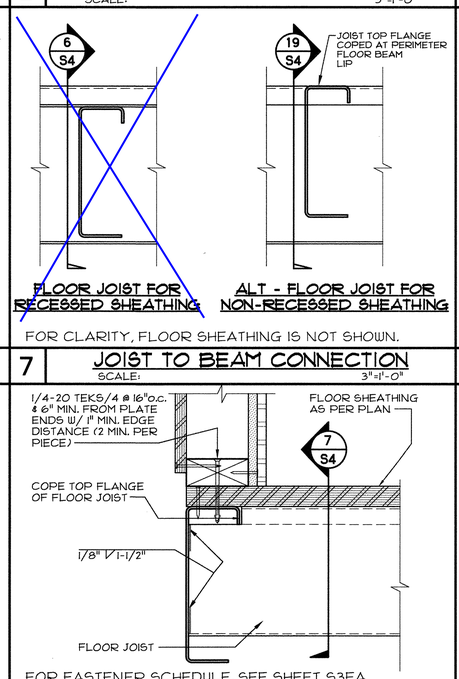

## 10 FLOOR BEAM BOTTOM FLANGE
SCALE: 3"=1'-0"

NOT USED

## 6 FLOOR BEAM @ JOIST CONNECTION
SCALE: 3"=1'-0"

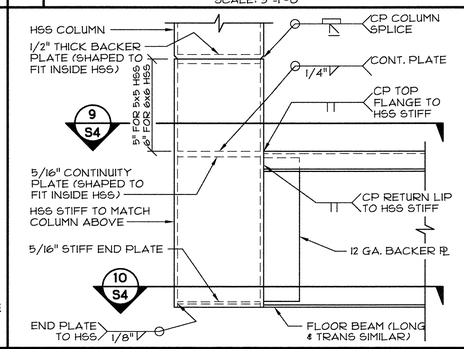



## 11 ROOF BEAM CONNECTION@MOD LINE
SCALE: 3"=1'-0"

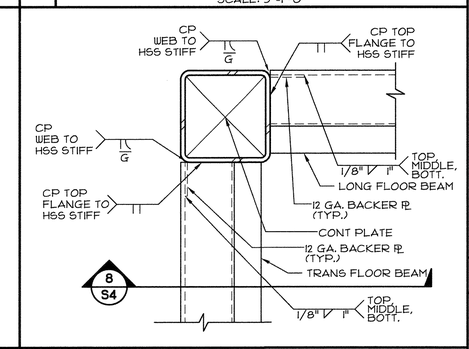



FOR CLARITY, FLOOR SHEATHING IS NOT SHOWN.

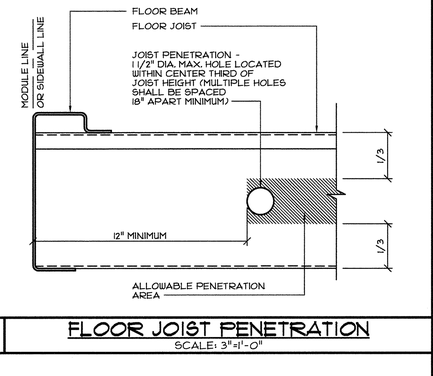
## 7 JOIST TO BEAM CONNECTION
SCALE: 3"=1'-0"



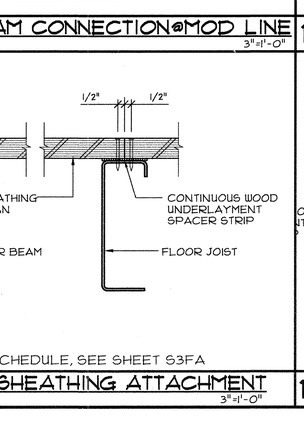

## 8 FLOOR BEAM @ CORNER - SECTION
SCALE:




## 9 FLOOR BEAM TOP FLANGE
SCALE: 3"=1'-0"

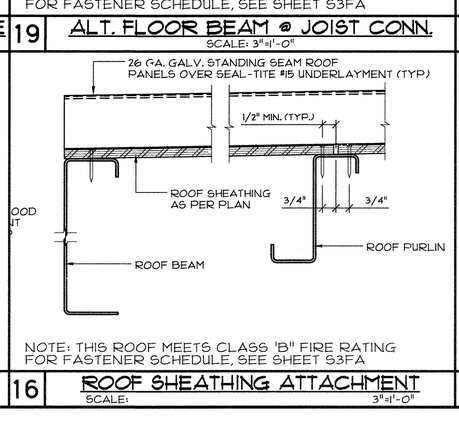



## 18 FLOOR JOIST PENETRATION
SCALE: 3"=1'-0"



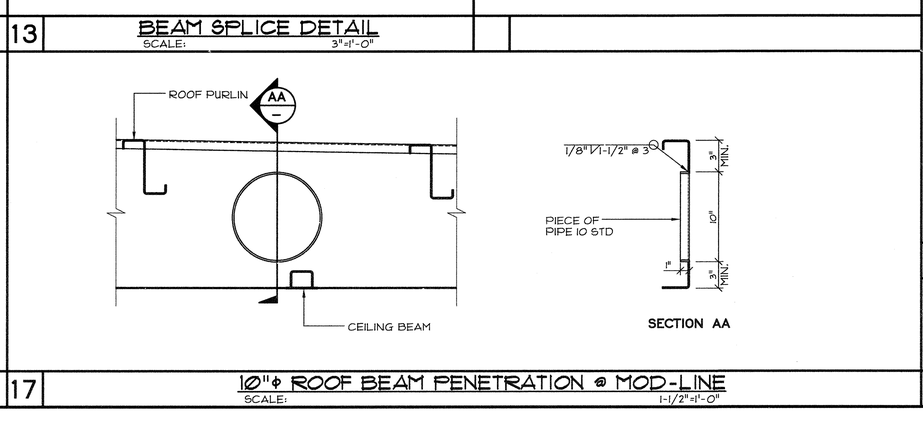

FOR FASTENER SCHEDULE, SEE SHEET S3FA

## 15 FLOOR SHEATHING ATTACHMENT
SCALE: 3"=1'-0"



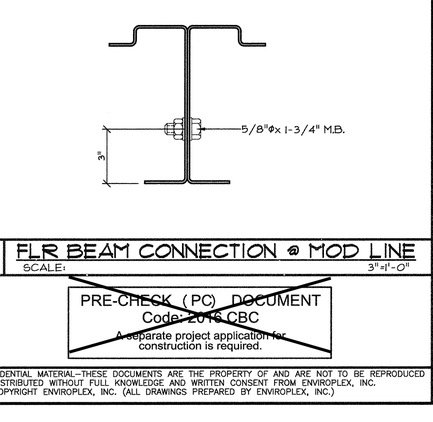

NOTE: THIS ROOF MEETS CLASS 'B' FIRE RATING
FOR FASTENER SCHEDULE, SEE SHEET S3FA

## 16 ROOF SHEATHING ATTACHMENT
SCALE: 3"=1'-0"




SECTION AA

## 17 10"ø ROOF BEAM PENETRATION @ MOD-LINE
SCALE: 1-1/2"=1'-0"




## 12 FLR BEAM CONNECTION @ MOD LINE
SCALE: 3"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.


ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000


CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

STRUCTURAL CONNECTION DETAILS

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|---|---|
| | |

JOB No.:
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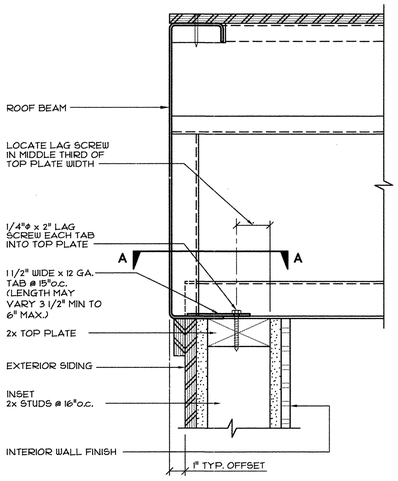
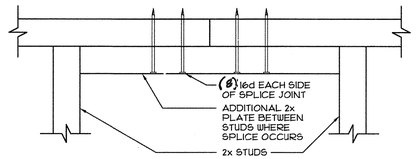
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
RE-CHECK
02-118094
AC. FLS SS
DATE 9-6-2018

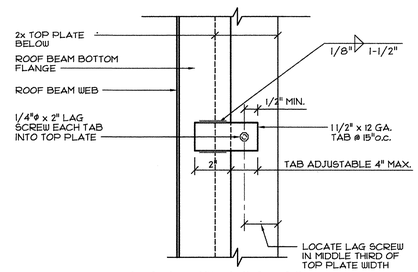
24x40 TO 120x40 P.C.

S4



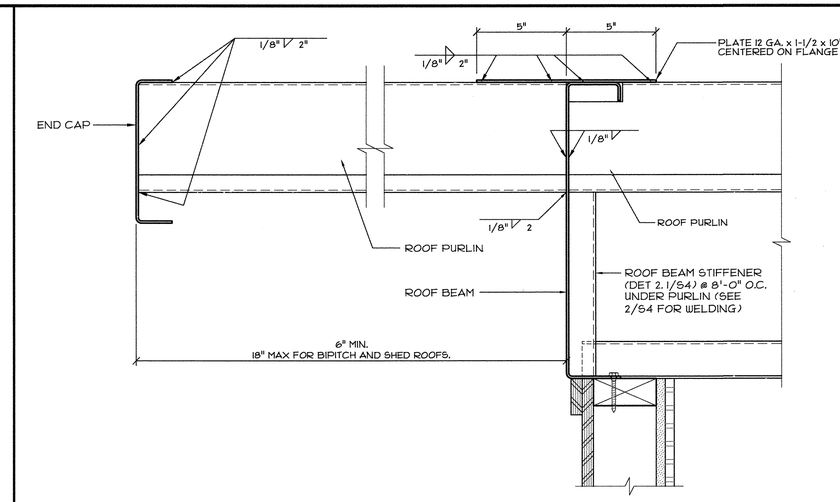

ELEVATION - TOP PLATE SPLICE




PLAN VIEW "A-A"

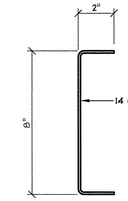
1 INSET STUDS - TOP PLATE CONNECTION

SCALE: 3"=1'-0"



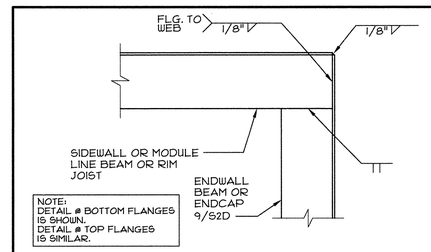

2 SIDEWALL OVERHANG DETAIL

SCALE: 3"=1'-0"



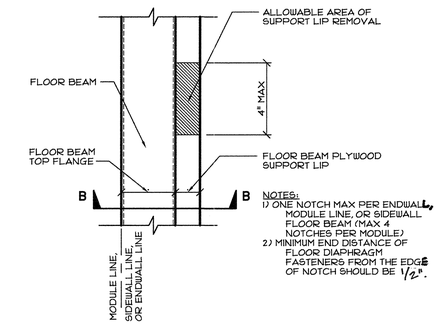

| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A | 0.84 $in^2$ |
| Ix min. | 7.23 $in^4$ |
| Sx min. | 1.81 $in^3$ |

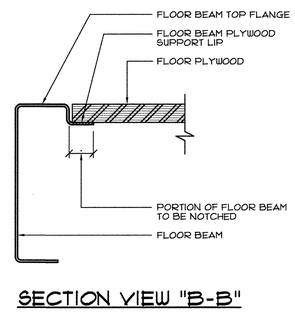
END CAP SECTION PROPERTIES




15 TYP. CHANNEL BEAM @ CORNERS

SCALE: 3"=1'-0"

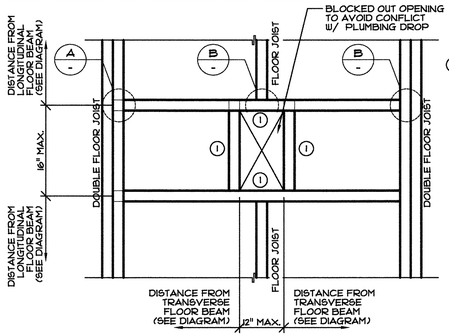


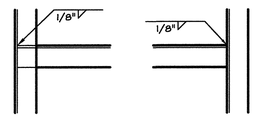




SECTION VIEW "B-B"

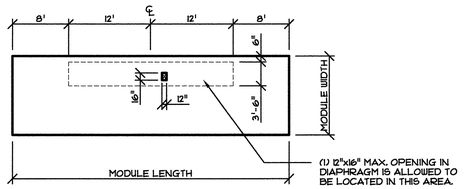
3 FLOOR BEAM TOP FLANGE NOTCH

SCALE: 3"=1'-0"




FRAMING AT OPENING

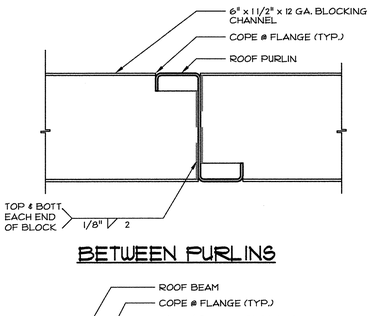



ALLOWABLE LOCATION DIAGRAM

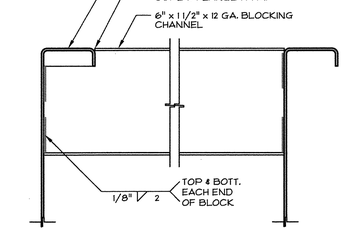
FOR USE WITH:
~~50~~ 65 PSF FLOOR LL.
(PLYWOOD FLOOR ONLY)

4 FLOOR JOIST PLUMBING BLOCK-OUT

SCALE: NOT TO SCALE




BETWEEN PURLINS




BETWEEN BEAMS

11 TYP. CHANNEL BLOCK INSTALLATION

SCALE: 3"=1'-0"

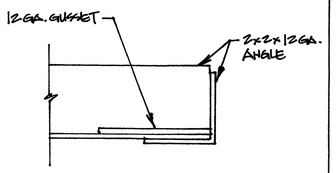



NOT USED

PLAN VIEW

5 INTERIOR HVAC UNIT - SEISMIC BRACE

SCALE: 3"=1'-0"




6 BRACE - HEATED ANGLES

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
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DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
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DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER — No. S2030 — STRUCTURAL — STATE OF CALIFORNIA

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

OPTIONAL STRUCTURAL DETAILS

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| | |

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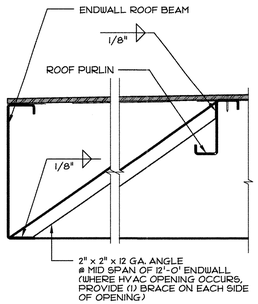
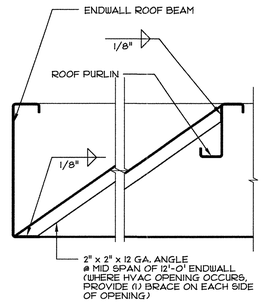
02-118094
AC. FLS. ~~SS~~ ACS
DATE 9-6-2018
24"x40" TO 120"x40" P.C.

S4.1

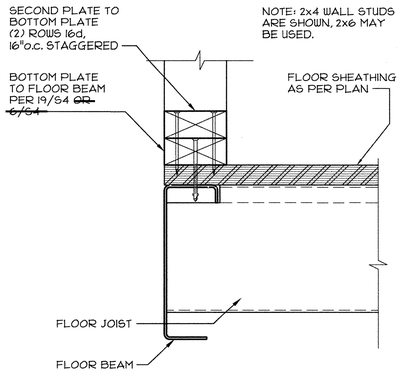



1 ENDWALL DIAGONAL BRACE
SCALE: 1 1/2"=1'-0"

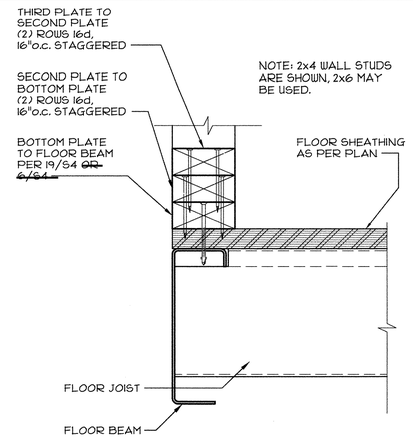



VARIABLE PITCH ROOF ONLY

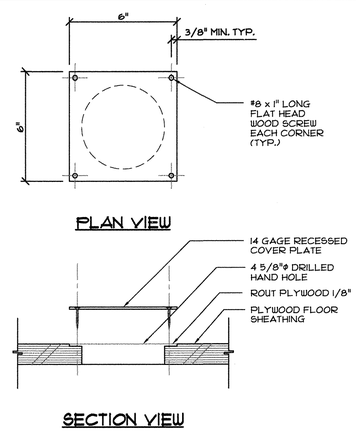
6 ENDWALL DIAGONAL BRACE
SCALE: 1 1/2"=1'-0"




2 DOUBLE BOTTOM PLATE OPTION
SCALE: 3"=1'-0"

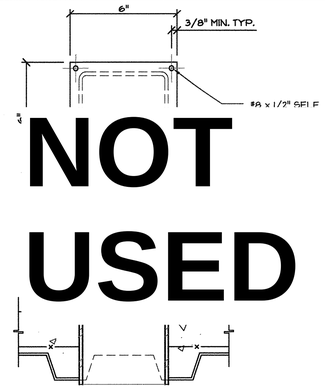



3 TRIPLE BOTTOM PLATE OPTION
SCALE: 3"=1'-0"




SECTION VIEW

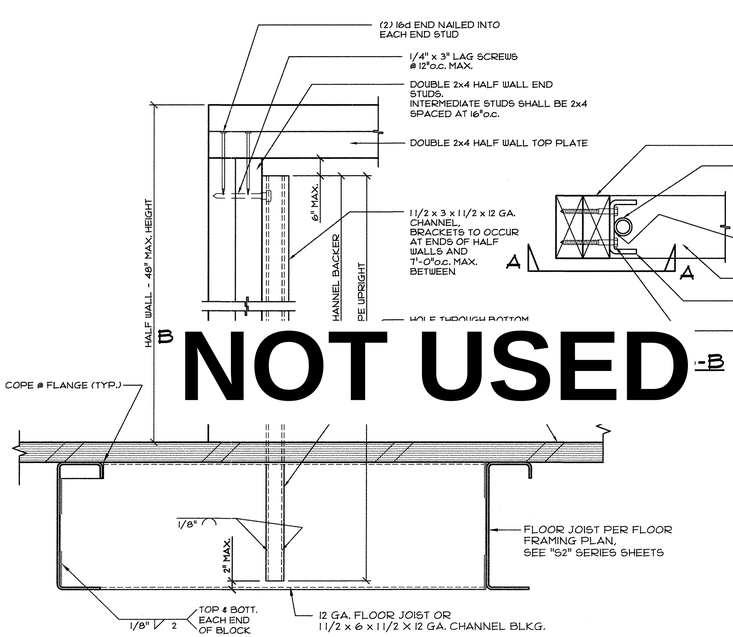
4 HAND ACCESS HOLE - PLYWOOD
SCALE: 3"=1'-0"




NOT USED

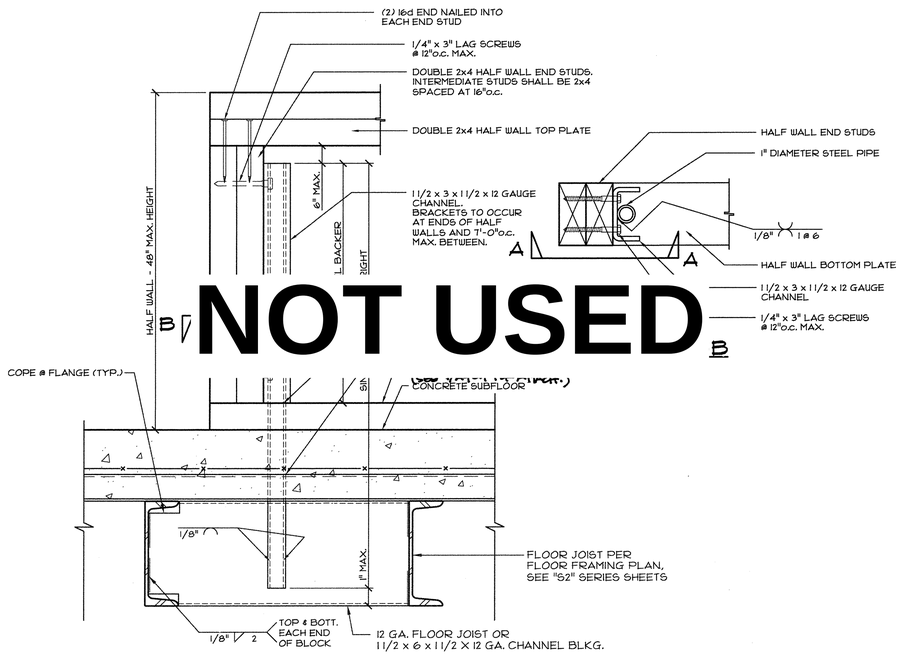
SECTION VIEW

5 HAND ACCESS HOLE - CONCRETE
SCALE: 3"=1'-0"




SECTION A-A

11 HALF WALL STABILIZER BRACKET - PLYWOOD FLOORS
SCALE: 3"=1'-0"




SECTION A-A

11.1 HALF WALL STABILIZER BRACKET - CONCRETE FLOORS
SCALE: 3"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
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03/26/2020

SED
EVE -
4-SIDES,
OR

REGISTERED PROFESSIONAL ENGINEER
ARTHUR BARNETT ACCESS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

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STRUCTURA
6443 SYCAMO
Sacra
(916) 520-0400 (916) 520-1598 FAX
www.csastr

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

ALTERNATE STRUCTURAL DETAILS

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02-118094
AC. FLS SS
DATE: 9-6-2018

24"x40" TO 120"x40" P.C.

S4.2

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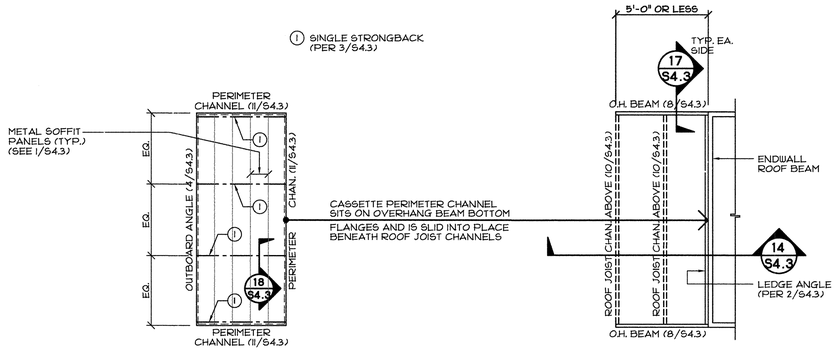
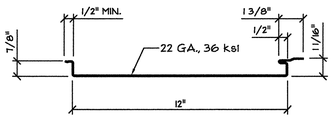



PLAN VIEW
REMOVABLE
SOFFIT CASSETTE



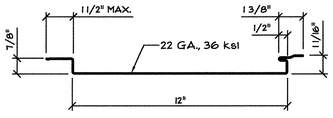

PLAN VIEW
OVERHANG FRAMING
@ SOFFIT LEVEL

## 13 SOFFIT FRAMING PLAN (FRONT OVERHANG 5'-0" OR LESS)
SCALE: 1/4"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.448 in$^2$ |
| Ix min. | 0.051 in$^4$ |
| Sx min. | 0.0587 in$^3$ |
| GA. | 22 |

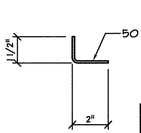
STANDARD




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.416 in$^2$ |
| Ix min. | 0.063 in$^4$ |
| Sx min. | 0.0757 in$^3$ |
| GA. | 22 |

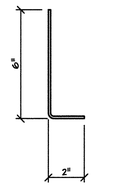
OPTIONAL (LONG RETURN LEG)

## 1 EXTERIOR SOFFIT PANELS
SCALE: 3"=1'-0"



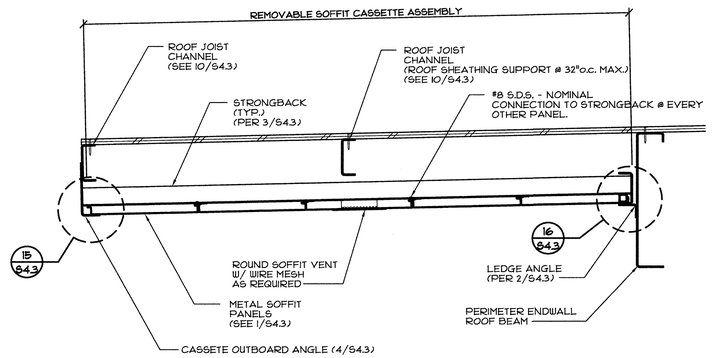

| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.337 in$^2$ |
| Ix min. | 0.069 in$^4$ |
| Sx min. | 0.061 in$^3$ |
| GA. | 12 |

## 2 LEDGE ANGLE
SCALE: 3"=1'-0"

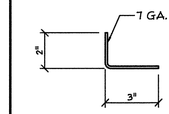



| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.79 in$^2$ |
| Ix min. | 3.06 in$^4$ |
| Sx min. | 0.83 in$^3$ |
| GA. | 12 |

## 4 CASSETTE OUTBOARD ANGLE
SCALE: 3"=1'-0"



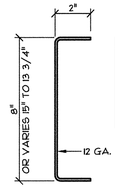

## 14 SOFFIT SECTION
SCALE: 1 1/2"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.842 in$^2$ |
| Ix min. | 0.290 in$^4$ |
| Sx min. | 0.191 in$^3$ |
| GA. | 7 |

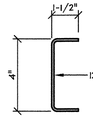
STRONGBACK @ 5' MAX OVERHANGS

## 3 STRONGBACK
SCALE: 3"=1'-0"



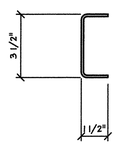

| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| | 8" |
| A (GROSS) | 1.18 in$^2$ |
| Ix min. | 10.08 in$^4$ |
| Sx min. | 2.52 in$^3$ |

## 8 OVERHANG BEAM
SCALE: 3"=1'-0"




| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | .67 in$^2$ |
| Ix min. | 1.56 in$^4$ |
| Sx min. | .78 in$^3$ |

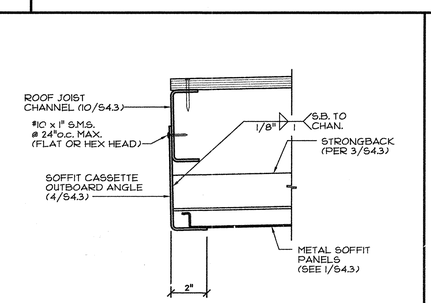
## 10 ROOF JOIST CHANNELS
SCALE: 3"=1'-0"



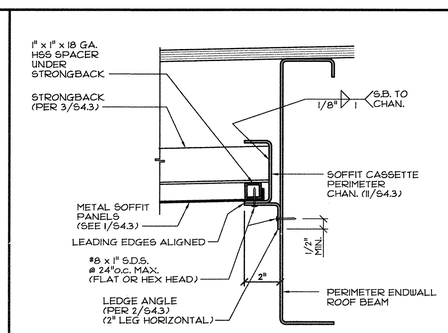

| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.688 in$^2$ |
| Ix min. | 0.928 in$^4$ |
| Sx min. | 0.619 in$^3$ |
| GA. | 10 |

## 11 CASSETTE PERIMETER CHANNEL
SCALE: 3"=1'-0"

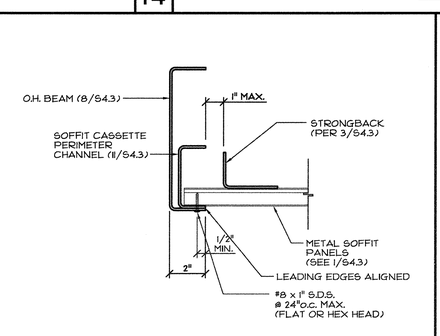
PRE-CHECK ( PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



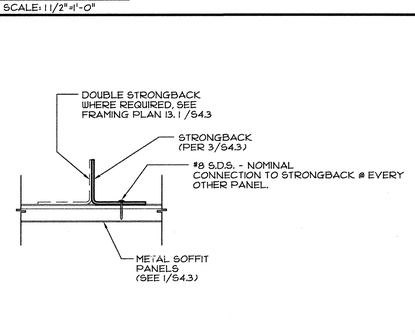

## 15 SOFFIT OUTBOARD END
SCALE: 3"=1'-0"




## 16 SOFFIT INBOARD END
SCALE: 3"=1'-0"




## 17 SOFFIT @ MODLINE OR SIDEWALL
SCALE: 3"=1'-0"




## 18 SOFFIT IN FIELD
SCALE: 3"=1'-0"



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DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
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DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST REESE
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

METAL SOFFIT PANELS, REMOVABLE CASSETTE (M. LARA EDITION)

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

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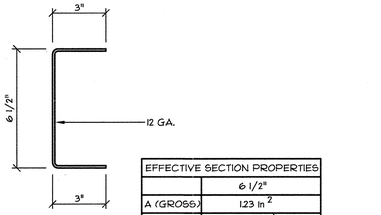
DIVISION OF THE STATE ARCHITECT
02-118094
AC. FLS. SS
DATE 9-6-2018

24"x40" TO 120"x40" P.C.

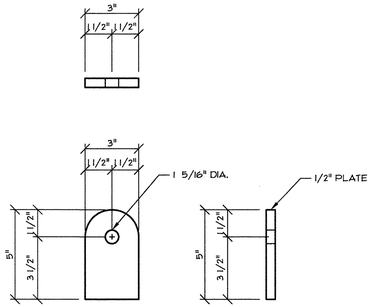
S4.3

I:\CAD\2016 PC\2016 - 24x40\Drawings\2016 - 24x40 - S4.3 (CURRENT).dwg, 7/2/2018 9:36:14 AM

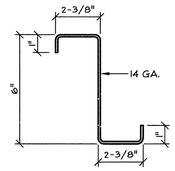



| EFFECTIVE SECTION PROPERTIES | 6 1/2" |
|---|---|
| A (GROSS) | 1.23 in$^2$ |
| Ix min. | 8.17 in$^4$ |
| Sx min. | 2.52 in$^3$ |

## 4 DETAIL - CANOPY PERIM. CHAN.
SCALE: 3"=1'-0"

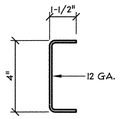



## 3 DETAIL - UPPER CLEVIS PLATE
SCALE: 3"=1'-0"



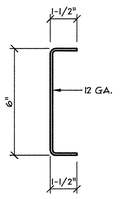

| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.87 in$^2$ |
| Ix min. | 4.83 in$^4$ |
| Sx min. | 1.61 in$^3$ |

## 10 DETAIL - "Z" PURLIN
SCALE: 3"=1'-0"



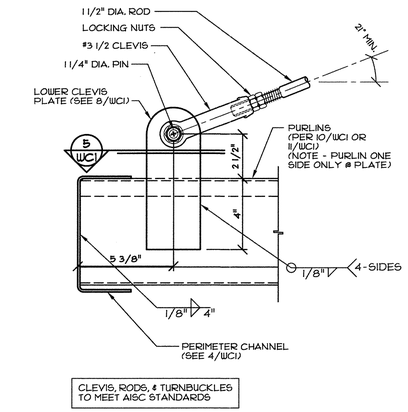

| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.67 in$^2$ |
| Ix min. | 1.51 in$^4$ |
| Sx min. | 0.77in$^3$ |

## 9 DETAIL - STRONGBACK CHANNEL
SCALE: 3"=1'-0"



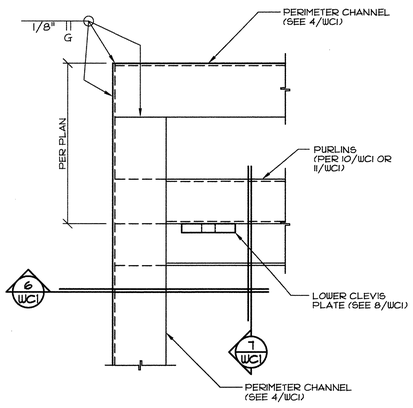

| EFFECTIVE SECTION PROPERTIES | |
|---|---|
| A (GROSS) | 0.88in$^2$ |
| Ix min. | 4.13 in$^4$ |
| Sx min. | 1.38 in$^3$ |

## 11 DETAIL - CHANNEL PURLIN OPT.
SCALE: 3"=1'-0"

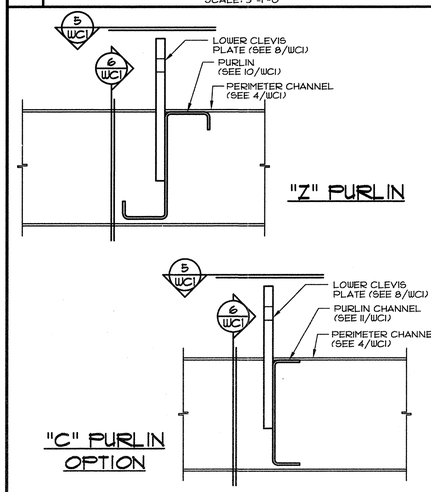



CLEVIS, RODS, & TURNBUCKLES TO MEET AISC STANDARDS

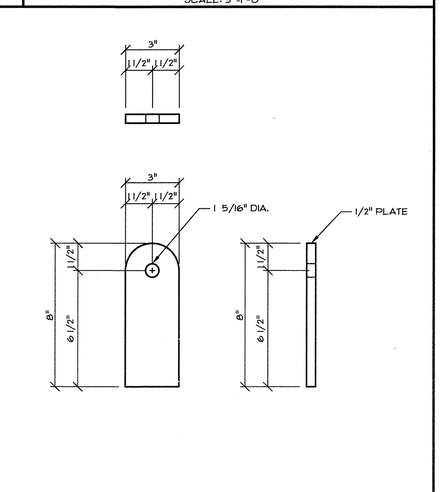
## 6 SECTION - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"



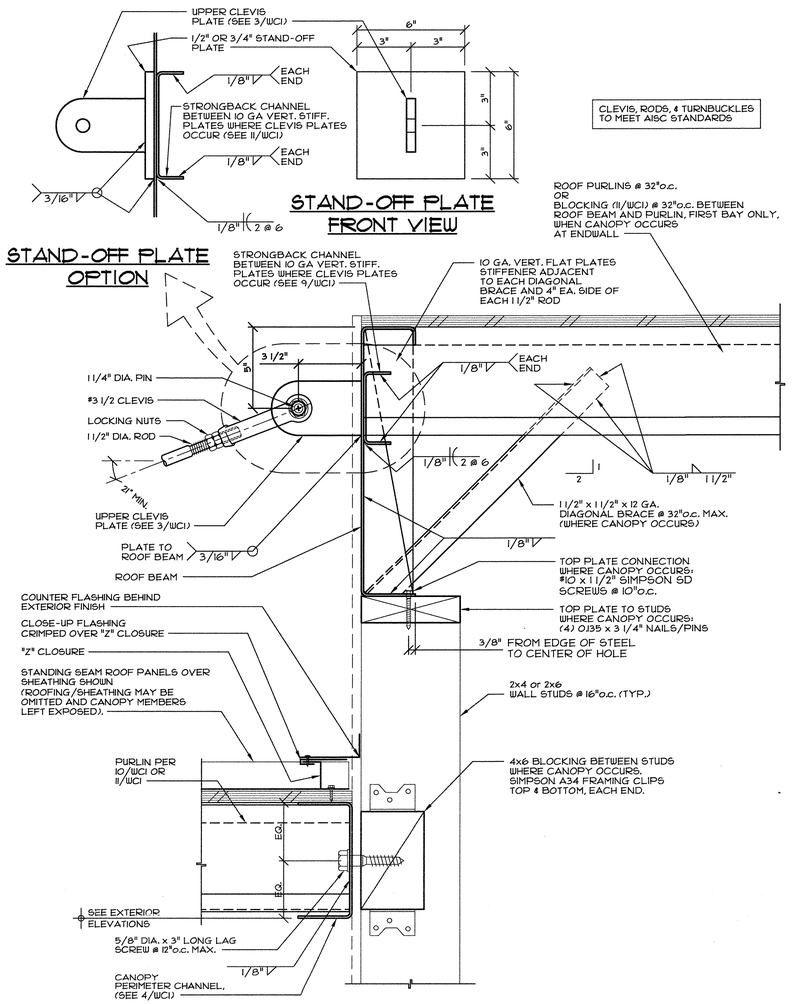

## 5 PLAN VIEW - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"




## 7 SECTION - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"



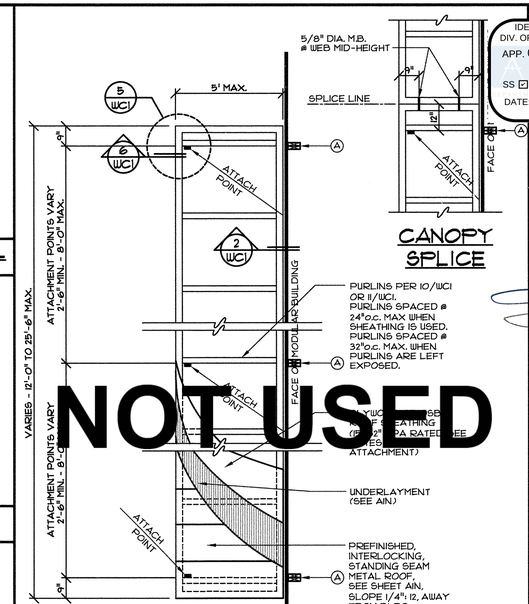

## 8 DETAIL - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"




## 2 SECTION - CANOPY TO BUILDING
SCALE: 3"=1'-0"

CLEVIS, RODS, & TURNBUCKLES TO MEET AISC STANDARDS

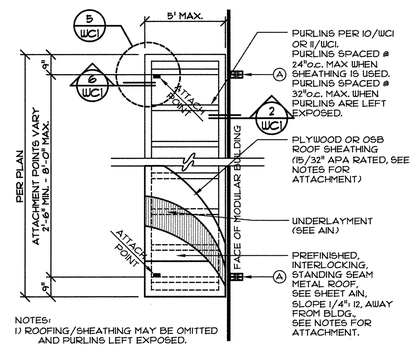
ROOF PURLINS @ 32"o.c. OR BLOCKING (11/WC1) @ 32"o.c. BETWEEN ROOF BEAM AND PURLIN, FIRST BAY ONLY, WHEN CANOPY OCCURS AT ENDWALL




## CANOPY SPLICE

NOTES:
1) ROOFING/SHEATHING MAY BE OMITTED AND PURLINS LEFT EXPOSED.
2) SHEATHING ATTACHMENT OPTIONS:
~~a) #10 DIA. WAFER PINS @ 4"o.c. EDGE AND FIELD.~~
b) #10 S.M.S. @ 12"o.c. EDGE AND FIELD.
c) 0.144" DIA ET&F PINS @ 10"o.c. EDGE AND FIELD
3) SEE 1/WC2 FOR SHEATHING LAYOUT.
4) STANDING SEAM METAL ROOF PANEL ATTACHMENT PER 2/AIR, ROOF CLIP SPACING SCHEDULE, ZONE 3.

## 1 PLAN VIEW - MULTIPLE HANGER CANOPY
SCALE: 3/8"=1'-0"




NOTES:
1) ROOFING/SHEATHING MAY BE OMITTED AND PURLINS LEFT EXPOSED.
2) SHEATHING ATTACHMENT OPTIONS:
~~a) #10 DIA. WAFER PINS @ 4"o.c. EDGE AND FIELD.~~
b) #10 S.M.S. @ 12"o.c. EDGE AND FIELD.
c) 0.144" DIA ET&F PINS @ 10"o.c. EDGE AND FIELD
3) SEE 1/WC2 FOR SHEATHING LAYOUT.
4) STANDING SEAM METAL ROOF PANEL ATTACHMENT PER 2/AIR, ROOF CLIP SPACING SCHEDULE, ZONE 3.

## 1.1 PLAN VIEW - DOUBLE HANGER CANOPY
SCALE: 3/8"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2016 CBC
A separate project application for construction is required.



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DATE: 04/10/2020

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REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST [illegible] No. S2030 STRUCTURAL STATE OF CALIFORNIA

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

CANOPY FRAMING & CONNECTION DETAILS

| REV / DATE: | BY: |
|---|---|
| | |

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
PC-0.02
02-118094
AC. FLS. DSA
DATE 9-6-2018
24"x40" TO 12"x20" P.C.

WC1

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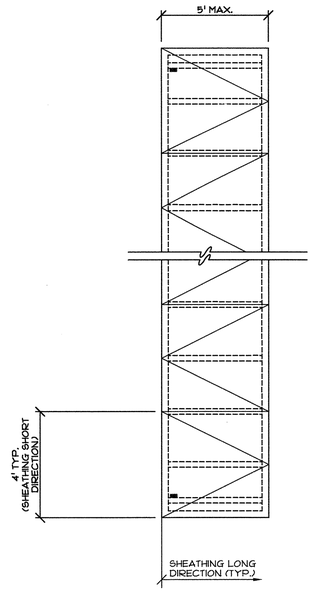


NOTES:
1) SEE 1/WC1 & L1/WC1 FOR SHEATHING FASTENING REQUIREMENTS.

2) SEE 1/WC1 & L1/WC1 FOR CANOPY SIZE OPTIONS.

1 PLAN VIEW - TYPICAL SHEATHING LAYOUT
SCALE: 3/8"=1'-0"

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DIV. OF THE STATE ARCHITECT
APP. 02-118017 INC:
REVIEWED FOR
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DATE: 04/10/2020

03/26/2020

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST PEERS
No. 82030
STRUCTURAL
STATE OF CALIFORNIA

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A separate project application for construction is required.



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4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

CESAR CHAVEZ HIGH SCHOOL - ATHLETIC FACILITY
STOCKTON UNIFIED SCHOOL DISTRICT
2929 WINDFLOWER LANE STOCKTON, CA 95212

CANOPY FRAMING & CONNECTION DETAILS

| REV / DATE: | BY: |
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JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-118094
AC. — FLS. — SS 6/6
DATE 9-6-2018

24"x40" TO 120"x40" P.C.

WC2

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