

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.

A) LIVE: ROOF: 20 PSF (REDUCIBLE)

BUILDING RISK CATEGORY II EXPOSURE C. 95 MPH BASIC WIND SPEED DIRECTIONAL PROCEDURE

> G=0.85, Cf=1.45, Kzt=1.00, Kd=0.85, Ke=1.0 Kz=0.85, HEIGHT=15 FT, qh=20.6 (STRENGTH), 12.3 PSF (ALLOWABLE STRESS) Kz=0.90, HEIGHT=15-20 FT, qh=21.8 (STRENGTH), 13.1 PSF (ASD) Kz=0.94, HEIGHT=20-25 FT, gh=22.8 (STRENGTH), 13.7 PSF (ASD) Kz=0.98, HEIGHT=25-30 FT, qh=23.7 (STRENGTH), 14.2 PSF (ASD) G=1.14, Cf=1.20, Kzt=1.00, Kd=0.95, Ke=1.0 Kz=0.90, HEIGHT=15-20 FT, gh=27.0 (STRENGTH), 16.2 PSF (ASD)

Kz=0.94, HEIGHT=20-25 FT, qh=28.2 (STRENGTH), 16.9 PSF (ASD)

Kz=0.98, HEIGHT=25-30 FT, qh=29.4 (STRENGTH), 17.7 PSF (ASD)

C) SEISMIC:

BUILDING RISK CATEGORY II EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7-16 SECTION 12.8) LATITUDE: 38.5491, LONGITUDE: -121.4943 SEISMIC DESIGN CATEGORY (SDC) D

SITE CLASS D $S_s=0.546$, $S_t=0.247$; $F_a=1.363$, $F_v=2.000$; $S_{MS}=0.744$, $S_{M1}=0.494$; $S_{DS}=0.496$, $S_{D1}=0.329$ IMPORTANCE FACTOR: l_e=1.00

R=5 FOR SPECIAL REINFORCED (CMU) SHEAR WALLS R=3 FOR SIGNS AND BILLBOARDS (FIELD EQUIPMENT) R=1.5 FOR STEEL POLES R=1.25 FOR ALL OTHER SELF-SUPPORTING STRUCTURES C_S =0.099 (STRENGTH), 0.071 (ALLOWABLE STRESS) FOR CMU SHEAR WALLS C_S=0.165 (STRENGTH), 0.118 (ALLOWABLE STRESS) FOR SIGNS & BILLBOARDS

 $C_s=0.331$ (STRENGTH), 0.236 (ALLOWABLE STRESS) FOR STEEL POLES C_s =0.397 (STRENGTH), 0.284 (ALLOWABLE STRESS) FOR ALL OTHER STRUCTURES C_V =0.099 (STRENGTH), 0.071 (ALLOWABLE STRESS).

D) LOAD COMBINATIONS FOR DESIGN: CONCRETE: PER ASCE 7 SECTION 2.3 FOR STRENGTH DESIGN. FOUNDATIONS: PER CBC SECTION 1605A.2 FOR ALLOWABLE STRESS DESIGN. ALL OTHERS: PER ASCE 7 SECTION 2.4 FOR ALLOWABLE STRESS DESIGN.

HOUR

HIGH STRENGTH

HIGH STRENGTH BOLT

HOLLOW STEEL SECTION

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

WWF WELDED WIRE FABRIC

GEOTECHNICAL & FOUNDATIONS

1. GEOTECHNICAL CRITERIA USED FOR FOUNDATION DESIGN: A) GEOTECHNICAL REPORT BY UNIVERSAL ENGINEERING SERVICES, WEST SACRAMENTO, CA. REPORT NO. 4630.2300077.0016, DATED 11-1-23 & SUPPLEMENTAL LETTER, 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: 24" (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 (2000 + 1/3 INCREASE FOR SHORT TERM LOADS WHERE ALLOWED BY CODE. ALLOWABLE FRICTION COEFFICIENT: 0.490 ALLOWABLE PASSIVE PRESSURE: 300 PCF

> PIER/PILE ALLOWABLE LATERAL PRESSURE: 400 PCF PLUS 1/3 INCREASE FOR SHORT TERM LOADS WHERE ALLOWED BY CODE. IGNORE 1 FT. AT TOP. EFFECTIVE PIER WIDTH: 1 DIAMETER. MINIMUM PIER SPACING: 3 DIAMETERS

D) CANTILEVERED RETAINING WALL (PER CBC TABLE 1610A.1 FOR TYPE CL SOIL - NO INFO ON GEOTECH REPORT PROVIDED): ACTIVE PRESSURE: 60 PCF

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

STRUCTURAL CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO CHAPTER 19A OF THE 2022 CALIFORNIA BUILDING CODE (CBC) AND 2019 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: C1, S0 (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: 5" DENSITY: 145 - 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE) 3. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GR. 60 U.N.O. WELDED WIRE

FABRIC SHALL CONFORM TO ASTM A1064. 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

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

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 = 1-1/2" 14. WHERE SIDES OF FOUNDATIONS (FOOTINGS, GRADE BEAMS OR WALLS) ARE CAST AGAINST EARTH WITHOUT FORMS, FOUNDATION SHALL BE WIDENED 1" AT EACH SUCH

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

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.

CAST-IN-DRILLED-HOLE (CIDH) PIER FOUNDATIONS:

REBAR CAGES, EMBEDDED POLES (AS REQUIRED) AND CONCRETE SHALL BE INSTALLED IN DRILLED HOLES AS SOON AFTER EXCAVATION AS POSSIBLE. WHERE SOIL TYPES AND/OI WATER TABLE ELEVATIONS ARE EXPECTED TO RESULT IN CAVING OF DRILLED PIER HOLES, SLEEVING OF PIER HOLES OR OTHER MEANS OF MITIGATION SHALL BE EMPLOYED.

2. WHERE SLEEVING OF PIER HOLES IS EMPLOYED: PIER HOLES ARE SLEEVED WITH TEMPORARY SLEEVE (TYPICALLY STEEL) THUS: AFTER DRILLING TO DEPTH AND INSERTION OF SLEEVE, ACCUMULATED WATER AND CAVED SPOILS SHALL BE PUMPED OUT OF HOLE. REBAR CAGE AND EMBEDDED POLE (AS REQUIRED) SHALL BE INSTALLED AS SOON AFTER AS POSSIBLE, FOLLOWED BY PUMPING CONCRETE INTO EXCAVATION USING TREMIE WHERE DIRECTED BY GEOTECHNICAL ENGINEER. SLEEVE SHALL BE LIFTED FROM HOLE AS CONCRETE IS PLACED TO ALLOW CONCRETE TO FLOW TO SIDES OF EXCAVATION, DISPLACING ACCUMULATED WATER AS HOLE FILLS WITH CONCRETE. THIS PROCESS SHALL BE CONFIRMED BY GEOTECHNICAL ENGINEER, CONTRACTOR AND PROJECT INSPECTOR PRIOR TO PROCEEDING, AND SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER AND LAB/SPECIAL INSPECTOR DURING ENTIRE PROCESS.

CONCRETE MASONRY

1. ALL CONCRETE UNIT MASONRY WORK SHALL CONFORM TO CHAPTER 21A OF THE 2022 CALIFORNIA BUILDING CODE (CBC) AND 2016 EDITIONS OF TMS 402/602-16.

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

3. DESIGN OF MASONRY IS BASED ON COMPRESSIVE STRENGTH OF MASONRY I'M OF 2,000 PSI. SPECIAL INSPECTION IS REQUIRED. SEE INSPECTION NOTES FOR ADDITIONAL REQUIREMENTS.

4. f'm COMPLIANCE SHALL BE VERIFIED BY THE "UNIT STRENGTH METHOD" PER TMS 402/602-16 ARTICLE 1.4B.2 AND MORTAR AND GROUT TESTS PER CBC SECTION 2105A.3 (DSA-SS). TEST UNITS PRIOR TO CONSTRUCTION. MORTAR 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 72 BAR-DIAMETERS, BUT NOT LESS THAN 24" AT ALL SPLICES. PROVIDE BEND PLUS 48 BAR-DIAMETERS EXTENSION ON HORIZONTAL BARS AT ALL WALL INTERSECTIONS.

7. SEE CONCRETE 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 ONE BAR DIAMETER OR MINIMUM 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

10. ALL STARTER (BOTTOM) COURSE UNITS SHALL BE INVERTED DOUBLE OPEN-END 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 OF MASONRY UNITS UTILIZING THE HIGH-LIFT GROUTING SHALL COMPLY WITH

ALL REQUIREMENTS OF DSA IR 21-2.13, INCLUDING, BUT NOT LIMITED TO, MAXIMUM HEIGHTS

OF POURS AND LIFTS, CLEANOUTS, TESTING AND INSPECTIONS.

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

STRUCTURAL STEEL

1. ALL STEEL AND MISC. IRON SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

2. STEEL MATERIAL SHALL BE AS FOLLOWS: W SHAPES: ASTM A992 PLATES, CHANNELS & ANGLES: ASTM A36 UNLESS NOTED OTHERWISE RECTANGULAR TUBES (TS OR HSS): ASTM A500 GRADE B, Fy=46 KSI PIPES (STD., X-STRG. & XX-STRG.): ASTM A53 GRADE B, Fy=35 KSI ROUND TUBES (HSS): ASTM A500 GRADE B, Fy=42 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 THREADED RODS: ASTM A307 OR A36 (MAY BE THREADED FOR ENTIRE LENGTH) WELDING ELECTRODES: E70XX

UNLESS NOTED OTHERWISE, ANCHOR BOLTS, MACHINE BOLTS AND THREADED ANCHOR RODS THROUGH STEEL AND EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM F1554. 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.

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

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

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.

. MINIMUM SPACING OF ALL BOLTS, 7/8"0 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"0, AND NOT MORE THAN 1/2" LARGER FOR A.B.'S OVER 1"0. ALL HOLES SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES IS NOT ALLOWED, WHETHER IN FIELD OR

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.

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.

5. 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.

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: 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:

a) HILTI KWIK BOLT TZ2 (ESR-4266), (TYP. ANCHOR SPECIFIED U.N.O.) a) HILTI KWIK BOLT TZ2 (ESR-4561), (TYP. ANCHOR SPECIFIED U.N.O.) 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 DIAMETERS, OR AS OTHERWISE SPECIFIED IN DETAILS. TORQUE ANCHORS DURING INSTALLATION TO THE RECOMMENDED INSTALLATION TORQUE VALUES SPECIFIED IN MANUFACTURER'S ICC-ES OR IAPMO-UES REPORT.

C. CHEMICAL ADHESIVE ANCHORS AND DOWELS: . ALL THREADED RODS AND REBAR DOWELS INSTALLED IN HARDENED CONCRETE OR MASONRY GROUT WITH "ADHESIVE" SHALL BE A TWO-PART NOZZLE-MIXED ICC-ES OR IAPMO-UES APPROVED CHEMICAL ADHESIVE SYSTEM, PASSING ICC-ES CRITERIA AC308 (CONCRETE) & AC58 (MASONRY). USE ONE OF THE FOLLOWING ICC-ES OR IAPMO-UES APPROVED SYSTEMS:

a) HILTI "HIT-RE 500-V3" ADHESIVE ANCHOR SYSTEM (ESR-3814), (SPECIFIED U.N.O.) MASONRY: a) HILTI "HIT" SYSTEM WITH HY-270 ADHESIVE (ESR-4143), (SPECIFIED U.N.O.) NOTE: OTHER CHEMICAL ADHESIVE ANCHOR SYSTEMS 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.

ANCHORS SHALL BE INSTALLED ONLY INTO CURED CONCRETE OR MASONRY GROUT OF MIN. 21 DAY AGE. IF INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY ELEMENTS PRIOR TO 21-DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION

3. INSTALLATION OF CHEMICAL ADHESIVE ANCHORS IN HORIZONTAL OR OVERHEAD APPLICATIONS SHALL BE INSTALLED BY AN ACI/CSRI CERTIFIED ADHESIVE ANCHOR INSTALLER. 4. HOLES SHALL BE DRILLED 1/8" TO 1/4" LARGER IN DIAMETER THAN ROD OR BAR OUTER

DIAMETER, AS SPECIFIED IN ICC-ES OR IAPMO-UES REPORT. BARS/RODS SHALL HAVE EMBEDMENT IN ADHESIVE NOT LESS THAN TEN (10) NOMINAL BAR/ROD DIAMETERS IN CONCRETE AND NINE (9) NOMINAL BAR/ROD DIAMETERS IN MASONRY,

6. INSTALLATION TORQUE FOR ALL ANCHORS SHALL BE REDUCED ACCORDING TO MANUFACTURER'S RECOMMENDATION DUE TO THE VICINITY OF ANCHOR TO EDGE OF CONCRETE. 7. THE BOND STRESSES AS SPECIFIED IN ICC-ES OR IAPMO-UES REPORT SHALL BE BASED

ON LONG TERM ELEVATED TEMPERATURES OF NOT LESS THAN 110 DEGREES F.

METAL ROOF DECK

THICKNESS: 16 GA.

OR AS OTHERWISE SPECIFIED IN DETAILS.

1. METAL DECK SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND ICC-ES OR IAPMO REPORT.

2. METAL DECK SHALL BE AS MANUFACTURED BY VERCO MANUFACTURING CO. (ER-2018), WITH THE FOLLOWING PROPERTIES: DUGOUTS & BATTING CAGE: PROFILE: 3" DEEP, N-24, WITH STANDARD INTERLOCKING SIDELAP

STEEL GRADE: GRADE 50, Fy = 50 KSI, Fu = 65 KSI FINISH: <u>G90</u> GALVANIZED WITH PRIMER ON <u>BOTH</u> SIDES. ATTACHMENT TO SUPPORTING FRAMING AT HOME DUGOUTS: USE 15/16" PUDDLE WELDS (1/2" EFF. DIA.) THUS: TO PERPENDICULAR SUPPORTS: FOUR (4) PW PER 24" SHEET TO PARALLEL SUPPORTS: PW @ 12" o.c. & 3" - 6" FROM ENDS

ALONG SIDELAPS: BUTTON PUNCH @ 12" o.c. & 3" - 6" FROM ENDS. (DO NOT USE VSC/PUNCHLOK SYSTEM) 4. PROVIDE STEEL UNDERSIDE CLOSURE BELOW DECKING AT ALL EXTERIOR WALLS AT

PER-FOOT PROPERTIES: I = 1.647 + S = 0.950, -S = 1.005

DUGOUTS, AND WHERE SPECIFIED BY ARCHITECTURAL DRAWINGS, PER DETAIL 31/S2.1. 5. TOUCH-UP: ALL WELDS SHALL BE TOUCHED UP WITH SPRAY-ON ZINC GALVANIZING AS RECOMMENDED BY MANUFACTURER PRIOR TO RE-APPLICATION OF PRIMER AND PAINT.

6. LAYOUT: DECK SHALL BE LAID OUT SUCH THAT A DOWN-FLUTE IS CENTERED OVER EVERY CMU WALL PARALLEL TO DECK FLUTES. USE ONE-PIECE SHEETS OVER ENTIRE TRANSVERSE DIMENSION OF BUILDINGS. NO SHEET LAPS/SPLICES ARE ALLOWED WITHIN 6" OF CMU FLUTES PARALLEL TO FLUTES.

TESTING AND SPECIAL INSPECTIONS

A) ALL TESTS AND SPECIAL INSPECTIONS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF 2022 CALIFORNIA BUILDING CODE (CBC) CHAPTER 17A AND APPROVED FORM DSA-103. "LISTING OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS."

B) ALL TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) SECTION 4-335. C) THE OWNER SHALL EMPLOY AND PAY THE INSPECTION/TESTING LABORATORY. COSTS OF RE-TESTING MAY BE BACK-CHARGED TO THE CONTRACTOR.

WITH CAC SECTION 4-333(b), AND THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH CAC SECTION 4-342. E) COPIES OF ALL TEST/INSPECTION REPORTS SHALL BE SUBMITTED TO ARCHITECT, STRUCTURAL ENGINEER, PROJECT INSPECTOR. AND DSA-SSS.

D) INSPECTOR SHALL BE APPROVED BY DSA. INSPECTIONS SHALL BE IN ACCORDANCE

2. FOUNDATIONS (DRILLED PIERS, FOOTINGS, GRADE BEAMS), WALLS AND SLABS-ON-GRADE: A) NOTIFY ENGINEER AND PROJECT INSPECTOR 48 HOURS BEFORE CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT.

B) SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705A.3, 1705A.6 & 1705A.8. C) THE TESTING AGENCY SHALL PERFORM THE FOLLOWING: * REVIEW ALL CONCRETE MIX DESIGNS. ALL DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING

* FOR EACH CONCRETE MIX PLACED, AGENCY SHALL CAST (4) TEST CYLINDERS IN ACCORDANCE WITH ASTM C31 FOR EACH 50 CUBIC YARDS OR 2000 SQUARE FEET, OR FRACTION THEREOF, OF CONCRETE PLACED EACH DAY, AND TRANSPORT CYLINDERS TO LAB. TEST CYLINDERS IN ACCORDANCE WITH ASTM C39. TEST (1) CYLINDER AT 7 DAYS AND (2) CYLINDERS AT 28 DAYS. HOLD LAST TEST CYLINDER FOR

60 DAYS * INSPECT FINAL PLACEMENT OF ALL REINFORCING AND STEEL EMBEDS AS INDICATED ON DETAILS PRIOR TO CONCRETE PLACEMENT. * CONTINUOUS INSPECTION OF CONCRETE PLACEMENT FOR ALL DRILLED PIERS

AND GRADE BEAM FOOTINGS. D) SEE ITEM 8 BELOW FOR INSPECTIONS BY GEOTECHNICAL ENGINEER.

A) SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705A.4.

CONCRETE UNIT MASONRY:

B) TESTING LAB SHALL PERFORM THE FOLLOWING: * REVIEW MASONRY GROUT MIX DESIGNS. ALL DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING GROUT. * VERIFY I'M COMPLIANCE PER UNIT STRENGTH METHOD PER CBC 2105A.6. * CAST AND TEST GROUT CYLINDERS AS REQUIRED. * INSPECT UNIT PLACEMENT AND GROUT SPACES. * VERIFY REINFORCING PLACEMENT.

4. POST-INSTALLED ANCHORS IN CONCRETE AND CONCRETE MASONRY: A) <u>GENERAL — APPLICABLE TO ALL ANCHORS AND DOWELS:</u> 1) ALL EXPANSION ANCHORS, SCREW ANCHORS AND ADHESIVE ANCHOR SYSTEMS USED SHALL HAVE ICC-ES OR IAPMO-UES APPROVAL. 2) PERIODIC SPECIAL INSPECTION IS REQUIRED FOR ALL ANCHORS.

B) <u>EXPANSION ANCHORS IN CONCRETE & MASONRY:</u> 1) PULL-TEST OR TORQUE-TEST 100% OF ANCHORS EXCEPT AS NOTED; PULL-TEST OR TORQUE-TEST 10% OF SILL PLATE ANCHOR BOLTS AND 50% OR ALTERNATE ANCHORS FOR EQUIPMENT ANCHORAGE AND IN NON-STRUCTURAL APPLICATIONS. 2) PULL-TEST LOAD VALUES SPECIFIED BELOW ARE BASED ON (1-1/4) TIMES THE MAXIMUM DESIGN TENSION STRENGTHS AS PROVIDED IN THE ICC-ES REPORT FOR HILTI KWIK-BOLT TZ2 (ESR-4266) IN CONCRETE, IN ACCORDANCE WITH CBC SECTION 1910A.5.4, AND (2) TIMES THE MAXIMUM ALLOWABLE TENSION LOADS AS

PROVIDED IN THE ICC-ES REPORT FOR HILTI KWIK-BOLT TZ2 (ESR-4561) IN MASONRY. 3) PULL-TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED BELOW. ANCHOR NOMINAL EMBEDMENT CONC. TENSION MASONRY TENSION <u>DIAMETER (CONC./MASONRY) TEST LOAD (LBS.) TEST LOAD (LBS.)</u> 2½"/3"* 1180*(790**) 2½" / 2½"* 1955 1000*(770**)

3¾" / 3¾"*(3¾"**) 4050 1280*(970**) 4½" / 4½"*(4½"**) 5525 1880*(1730**) 5½" / 5½"* 7150 CONC. INSTALLATION CMU INSTALATION <u>TORQUE (FT.-LBS.)</u> TORQUE (FT.-LBS.) 30(C.S. & S.S.) 15(C.S. & S.S.)

50(C.S.) & 40(S.S.)

40(C.S.) & 60(S.S.)

110(C.S.) & 125(S.S.)

* - AT ANCHOR INSTALLED IN THE FACE OF GROUT-FILLED MASONRY ** - AT ANCHOR INSTALLED IN THE TOP OF GROUT-FILLED MASONRY 4) ALTERNATIVELY, TORQUE-TEST ANCHORS WITH CALIBRATED TORQUE WRENCH TO VALUES SPECIFIED IN MANUFACTURER'S ICC-ES OR IAPMO-UES REPORT FOR RECOMMENDED INSTALLATION TORQUE WITHIN 1/4 TURN OF THE NUT FOR 3/8"ø SLEEVE ANCHOR ONLY AND WITHIN 1/2 TURN OF THE NUT FOR ALL OTHER ANCHORS.

25(C.S. & S.S.)

30(C.S.) & 35(S.S.)

50(C.S. & S.S.)

B) RODS & DOWELS WITH CHEMICAL ADHESIVE IN CONCRETE & MASONRY: 1) PULL—TESTING OF RODS INSTALLED IN CHEMICAL ADHESIVE IS REQUIRED FOR ALL ANCHORS. TESTING OF REBAR USED ONLY AS SHEAR DOWELS ACROSS COLD JOINTS IN SLABS-ON-GRADE, WHERE SLAB IS NOT PART OF THE LATERAL

FORCE-RESISTING SYSTEM, IS NOT REQUIRED. 2) PULL-TEST LOAD VALUES SPECIFIED BELOW ARE BASED ON (1-1/4) TIMES THE MAXIMUM DESIGN TENSION STRENGTHS AS PROVIDED IN THE ICC-ES REPORT FOR HILTI HIT-RE 500-V3 (ESR-3814) IN CONCRETE, IN ACCORDANCE WITH CBC SECTION 1910A.5.4, AND (2) TIMES THE MAXIMUM ALLOWABLE TENSION LOADS AS PROVIDED IN THE ICC-ES REPORT FOR HILTI HIT HY-270

(ESR-4143) IN MASONRY. 3) PULL-TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED BELOW, BASED ON MIN. EMBEDMENT OF 100 IN CONCRETE & 90 IN MASONRY, U.N.O. ANCHOR/BAR MIN. EMBEDMENT CONC. TEST MASONRY TEST

<u>DIAMETER</u> (CONC./MASONRY) LOAD (LBS.) LOAD (LBS.) ⅓", #3 3¾" / 4¾"* 2910 1280* 5", #4 5" / 5"*(5"**) 5165 1300*(1300**) %", #5 6¼" / N/A*(N/A**) 8245 N/A*(N/A**) ′₄", #6 7½" / N/A*(N/A**) 10150 N/A*(N/A**) * - AT ANCHOR INSTALLED IN THE FACE OF GROUT-FILLED MASONRY ** - AT ANCHOR INSTALLED IN THE TOP OF GROUT-FILLED MASONRY

5. WELDING OF STRUCTURAL STEEL. TESTING LAB SHALL: A) VERIFY CERTIFICATION OF WELDERS AT START OF WORK. B) REVIEW WELDING PROCEDURE SPECIFICATIONS SUBMITTED BY FABRICATOR. PROVIDE CONTINUOUS INSPECTION OF ALL COMPLETE AND PARTIAL PENETRATION GROOVE WELDS, AND ALL FILLET WELDS 3/8" AND LARGER.)) PROVIDE PERIODIC INSPECTION OF ALL FILLET WELDS 5/16" AND SMALLER. E) TEST WELDS AS DEEMED NECESSARY BY THE INSPECTION AGENCY TO ENSURE ADEQUACY OF WELDS AND CONFORMANCE TO THE DRAWINGS AND SPECIFICATIONS.

6. ADDITIONAL INSPECTIONS BY STRUCTURAL ENGINEER: ARCHITECT AND ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE FOLLOWING TO ALLOW FOR INSPECTION OF THE RESPECTIVE WORK PRIOR TO **ENCLOSING IN FINISHES:**

A) AT SUBSTANTIAL COMPLETION OF ANY AREA OF FOUNDATION WORK PRIOR TO CLOSING OF FORMS OR PLACEMENT OF CONCRETE. B) AT SUBSTANTIAL COMPLETION OF ANY AREA OF STRUCTURAL STEEL FRAMING.

7. INSPECTIONS BY GEOTECHNICAL ENGINEER: A) PROVIDE PERIODIC INSPECTION OF SITE PREPARATION & GRADING — STRIPPING OR DISCING OPERATIONS. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. PRIOR TO PLACEMENT OF COMPACTED FILL. OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. B) PROVIDE CONTINUOUS INSPECTION OF ENGINEERED FILL OPERATIONS. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT

PROVIDE CONTINUOUS INSPECTION OF EXCAVATIONS FOR DRILLED PIER FOOTINGS.

VERIFY PLACEMENT LOCATIONS, PLUMBNESS, DIAMETERS AND LENGTHS. RECORD

E) CONCRETE MASONRY GROUT MIX DESIGN (SUBMIT TO TESTING/INSPECTION AGENCY)

SHOP DRAWING SUBMITTALS

CONCRETE VOLUMES.

AND COMPACTION OF COMPACTED FILL

1. PROVIDE SHOP DRAWINGS FOR THE FOLLOWING MATERIALS/PRODUCTS: A) CONCRETE MIX DESIGNS (SUBMIT TO TESTING/INSPECTION AGENCY) B) CONCRETE & MASONRY REINFORCING C) CONCRETE SLAB AND WALL CONTROL/CONSTRUCTION JOINT LAYOUT D) CONCRETE MASONRY UNITS

F) STRUCTURAL STEEL AND MISC. METALS 2. SEE SPECIFICATIONS FOR OTHER SUBMITTALS AND SUBMITTAL PROCEDURE.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-121908 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/01/2024



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CONSULTANT



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KEY MAP

STRUCTURAL NOTES & MATERIAL GRADES

PROJECT NAME

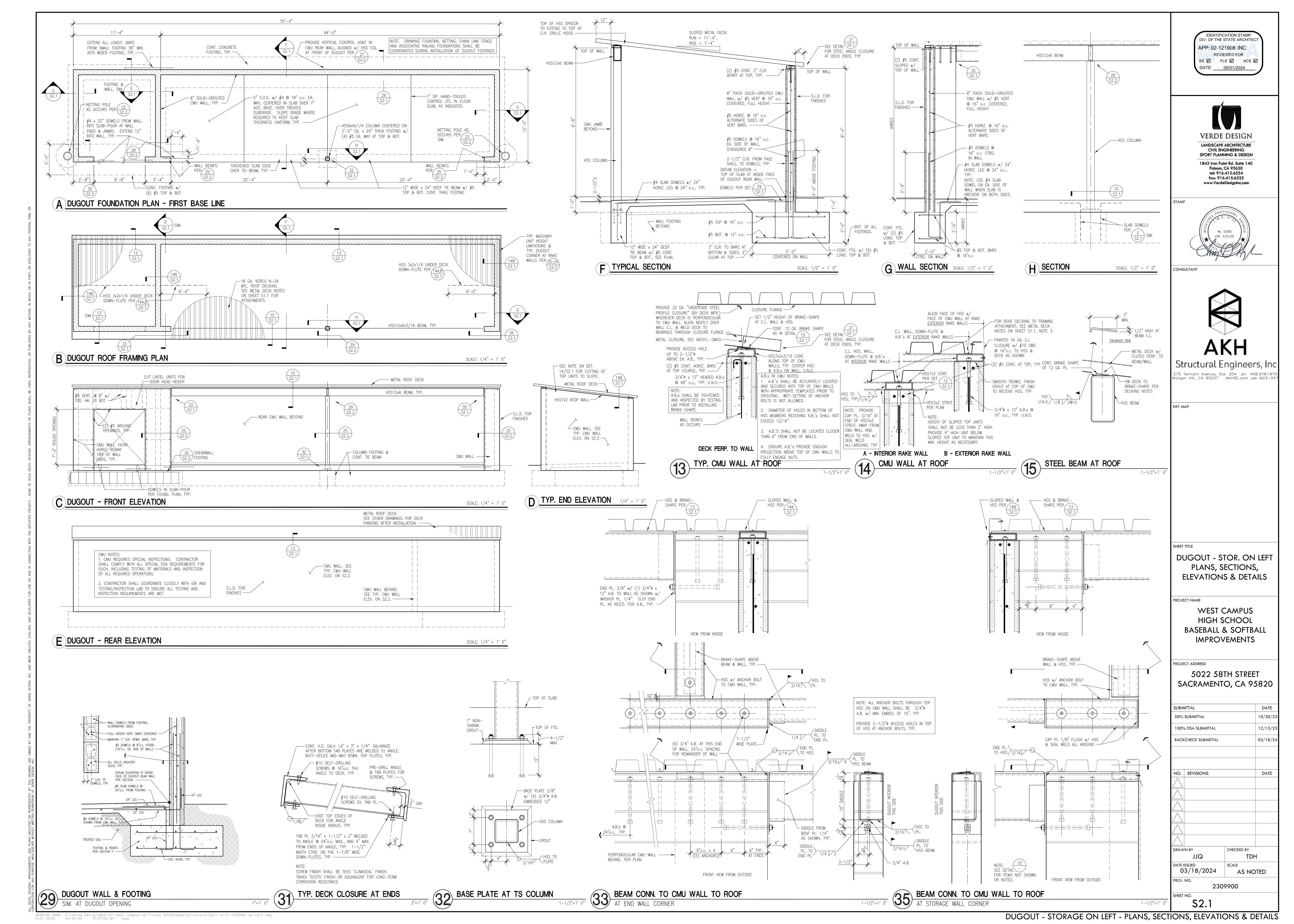
WEST CAMPUS HIGH SCHOOL **BASEBALL & SOFTBALL IMPROVEMENTS**

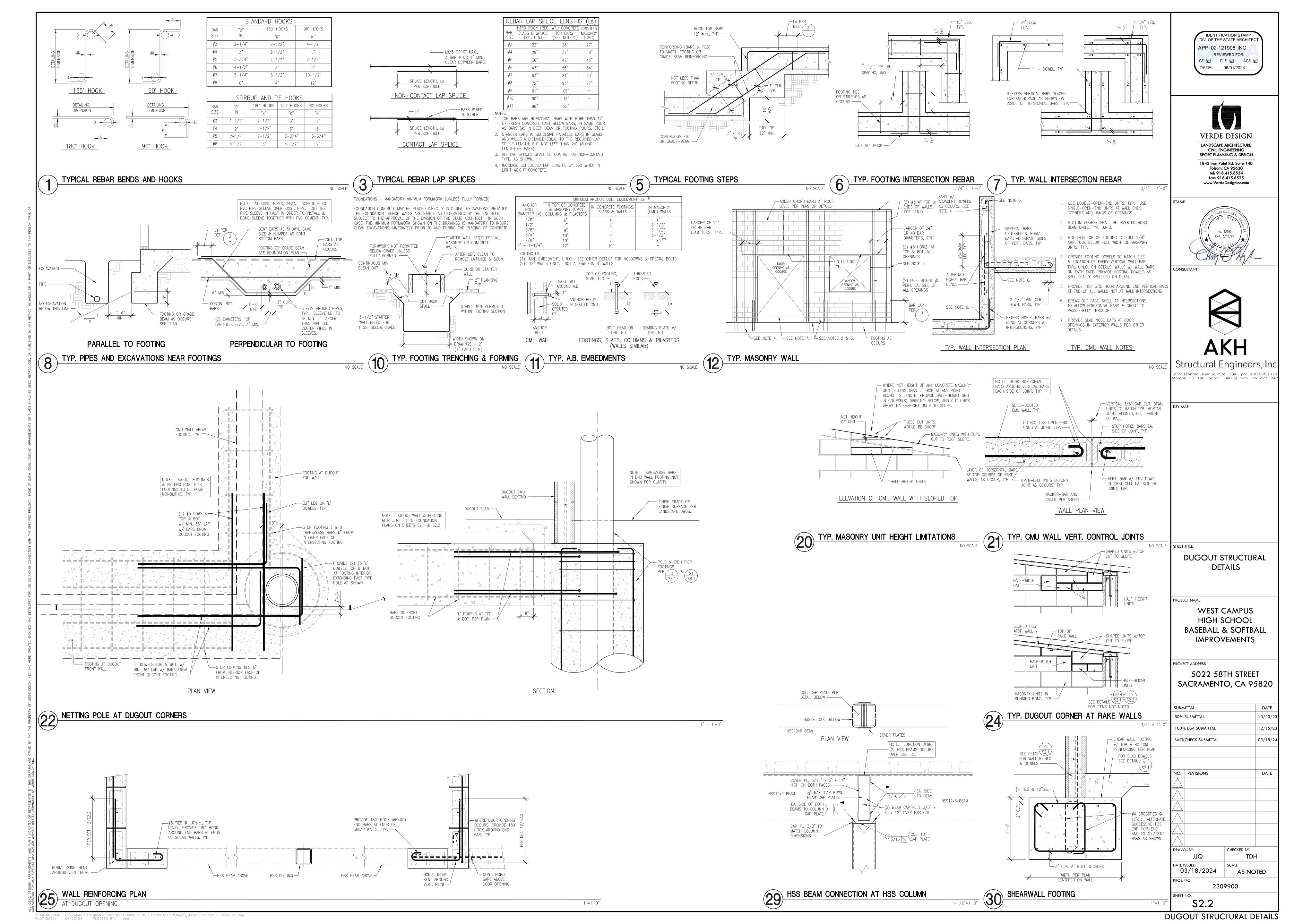
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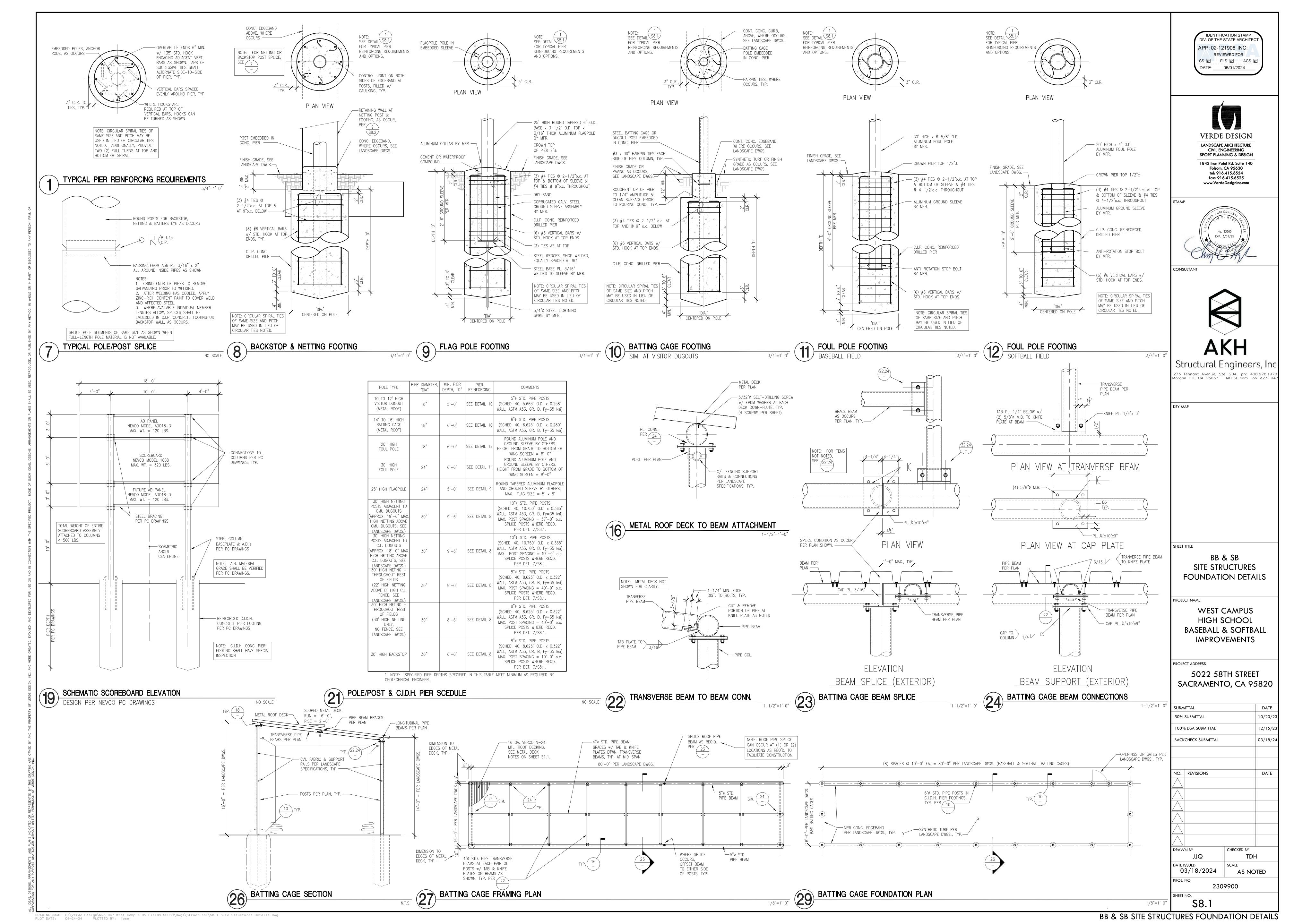
5022 58TH STREET SACRAMENTO, CA 95820

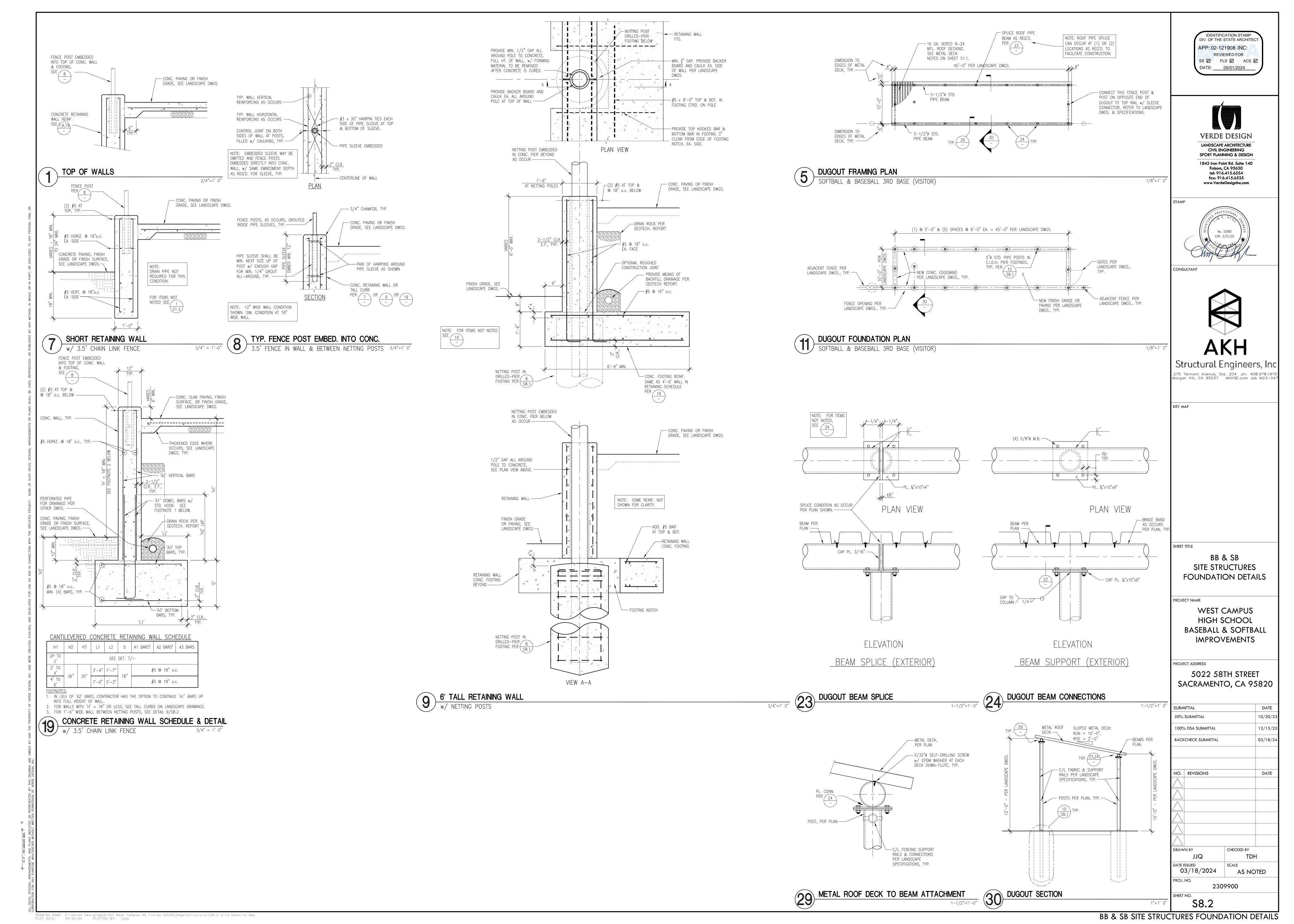
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10/20/23









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" DRAMINGS 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.

II. 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 2022 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 2020 NATIONAL ELECTRICAL CODE AS AMENDED BY THE 2022 CALIFORNIA ELECTRICAL CODE.

29. SPLICE GROUND WIRE INSIDE ALL METAL ELECTRICAL PULL BOXES AND BOND TO METAL COVER WITH #6 CU GND.

SYMBOL LIST:

PLAN, DETAIL OR SECTION DESIGNATION.

201 ROOM NUMBER

SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET

3 FEEDER SCHEDULE SYMBOL.

MECHANICAL EQUIPMENT TAG.

INDICATES FIXTURE TYPE

LUMINAIRE - SEE SCHEDULE

LUMINAIRE SYMBOLS

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 WALL MOUNTED- PROVIDE EMERGENCY BATTERY BALLAST

EMERGENCY LUMINAIRE - 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

- INDICATES SWITCHING DESIGNATION

LINDICATES CIRCUIT NUMBER

SWITCH SYMBOLS

SINGLE POLE SWITCH, + 48" AFF UON.

SINGLE POLE SWITCH, + 48" AFF UON, a = CIRCUIT CONTROLLED.

THREE WAY SWITCH + 48" AFF UON. FOUR WAY SWITCH + 48" AFF UON.

MOTOR RATED SWITCH

OCCUPANCY SENSOR

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.

AND DATA OUTLET.

FLOOR BOX WITH CONVENIENCE RECEPTACLE, TELEPHONE

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

MMOTOR

COMBINATION MAGNETIC STARTER FUSED DISCONNECT SWITCH.

UNFUSED DISCONNECT SWITCH - RATING AS INDICATED.

30 ₩

FUSED DISCONNECT SWITCH - SIZE FUSES PER MOTOR

MANUFACTURER'S RECOMMENDATIONS. RATING AS INDICATED. MAGNETIC STARTER - NEMA SIZE INDICATED

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.

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 "#IO" INDICATES WIRE SIZE OTHER THAN #12'S. FLEX CONDUIT WITH CONNECTION.

CONDUIT - STUB UP. ----

CONDUIT - STUB DOWN. ——E——

CONDUIT EMERGENCY SYSTEM.

CAPPED CONDUIT.

POWER DISTRIBUTION SINGLE LINE SYMBOLS

CIRCUIT BREAKER.

TRANSFORMER.

"PG&E" METER W/ CURRENT TRANSFORMER

IN-GRADE PULL BOX IDENTIFIED WITH "L" HAS A LID LABELED IN-GRADE PULL BOX IDENTIFIED WITH "S" HAS A LID LABELED

"ELECTRICAL".

IN-GRADE PULL BOX IDENTIFIED WITH "P" HAS A LID LABELED

IN-GRADE PULL BOXES

ABBREVIATIONS:

JUNCTION BOX

KILOAMPERE INTERRUPTING CAPACITY

AMPERE KILOVOLT ABOVE KILOVOLT AMPERES AMP FRAME OR AMP FUSE ΚM KILOWATT ABOVE FINISHED FLOOR LTG LIGHTING ARCH ARCHITECTURAL MCM THOUSAND CIRCULAR MILS AMP SWITCH AS MDF MAIN DISTRIBUTION FRAME MECH MECHANICAL ATS AUTOMATIC TRANSFER SMITCH MH MANHOLE BKR BREAKER MTD MOUNTED BLDG BUILDING MTG MOUNTING NEW CABLE TELEVISION NORMALLY CLOSED CB CIRCUIT BREAKER NOT IN CONTRACT CANDELAS CD NOT IN ELECTRICAL CONTRACT CKT CIRCUIT NUMBER/ NORMALLY OPEN CENTER LINE NTS NOT TO SCALE CEILING ON CENTER CONDUIT ONLY POLE CIRCUIT BREAKER CTR CENTER PUBLIC ADDRESS DEMOLISH PULL BOX DET DETAIL POWER FACTOR DIMENSION PHASE DISTR DISTRIBUTION PANEL PNL DMG DRAWING EXISTING TO BE RELOCATED EXISTING REQD REQUIRED EMERGENCY EQPT REQT REQUIREMENT(S) EQUIPMENT RM ROOM FIRE ALARM RSC RIGID STEEL CONDUIT FACP FIRE ALARM CONTROL PANEL FUTURE SMITCH FIN FINISH SWBD SWITCHBOARD FLOOR TERMINAL CABINET G, GND GROUND TELEPHONE TYPICAL TEL HEIGH" HORSEPOWER UON UNLESS OTHERWISE NOTED INTERCOM **VOLT** INTERMEDIATE DISTRIBUTION FRAME

WAT

XFMR

WEATHERPROOF

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. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.

I. 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. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE. 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENTS AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

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

B. COMPONENTS WEIGHING 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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP) ELECTRICAL DISTRIBUTION SYSTEM (E):

MP ☐ MD☐ PP☐ E図 - OPTION I: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

PREAPPROVAL (OPM #) #

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.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-121908 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/01/2024



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CONSULTANT



American Consulting Engineers

Electrical. Inc.

Fax: 408/236-2316

1590 The Alameda Suite 200

JOB #EK23095

KEY MAP

SHEET TITLE

ELECTRICAL SYMBOLS. ABBREVIATIONS. NOTES AND SCHEDULE

PROJECT NAME

PROJECT ADDRESS

SUBMITTAL

50% SUBMITTAL

WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL **IMPROVEMENTS**

5022 58TH STREET SACRAMENTO, CA 95820

10/20/23

12/15/23 100% DSA SUBMITTAL BACKCHECK SUBMITTAL 03/18/24 NO. REVISIONS DRAWN BY CHECKED BY DATE ISSUED 03/18/2024

2309900

DRAWING NAME: Z:\Projects\Year 2023\EK23095_West Campus H5 Ball Field Improv\EO.I_Cover Sheet.dwg PLOT DATE: 04-25-24 PLOTTED BY: wnguyen

ELECTRICAL SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULE

PROJ. 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.

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Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E (Page 4 of 7) Project Name: West Campus HS Baseball & Softball Improvements Report Page: Date Prepared: 4/23/2024 H. OUTDOOR LIGHTING CONTROLS This table demonstrates 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. Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to | Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings Field Inspector Shut-Off Auto-Schedule **Motion Sensor** Area Description 130.2(c)1 / 160.5(c) 130.2(c)2 / 160.5(c) 130.2(c)3 / 160.5(c) Fail Pass Provided Photocontrol Provided Walkwav Provided Photocontrol Provided Parking

¹FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed. ²Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source. ³Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Schema Version: rev 20220101

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Compliance ID: EnergyPro-6443-0424-1079

Report Generated: 2024-04-23 18:14:44

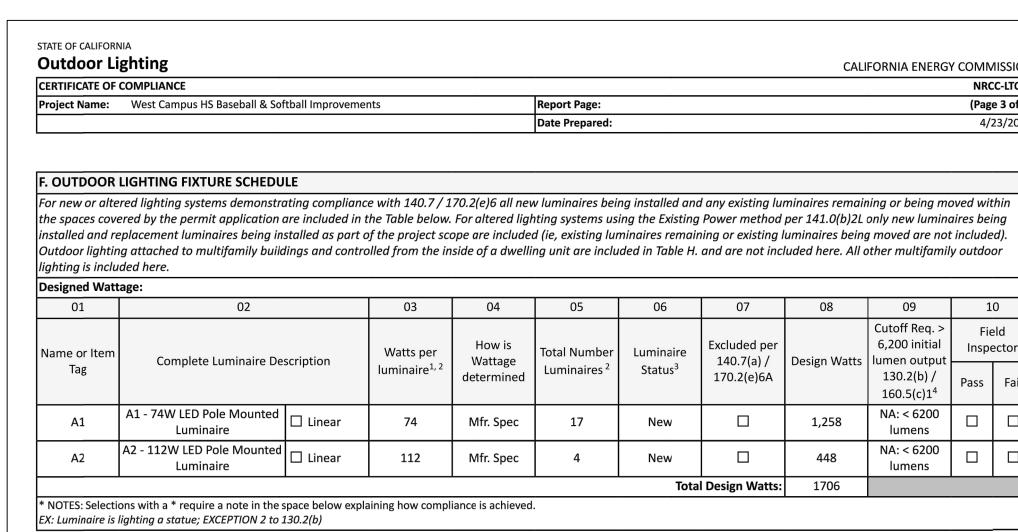
CERTIFICATE OF COMPLIANCE		NRCC-LTO-I
Project Name: West Campus HS Baseball & Softball Improvements	Report Page:	(Page 7 of 7
Project Address:	5022 58 th Street Date Prepared:	4/23/2024
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
I certify that this Certificate of Compliance documentation is accura	e and complete.	
Documentation Author Name: Sammy Fernandez	Documentation Author Signature:	
Company: American Consulting Engr. Elec., Inc	Signature Date: 2024-04-23	
Address: 1590 The Alameda	CEA/ HERS Certification Identification (if applicable): E16890	
City/State/Zip: San Jose CA 95126	Phone: 4082362312	
 The energy features and performance specifications, materials, components, and m of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate plans and specifications submitted to the enforcement agency for approval with this. I will ensure that a completed signed copy of this Certificate of Compliance shall be inspections. I understand that a completed signed copy of this Certificate of Compliance. 	of Compliance are consistent with the information provided on other applicables building permit application. made available with the building permit(s) issued for the building, and made	e compliance documents, worksheets, calculations,
Responsible Designer Name: Sammy Fernandez	Responsible Designer Signature:	vice building owner at occupancy.
Company: American Consulting Engineers Electrical, Inc	Date Signed: 2024-04-23	
Address: 1590 The Alameda	License: E16890	
City/State/Zip: San Jose CA 95126	Phone: 4082362312	
	Generated Date/Time:	Documentation Software: EnergyPr

Report Version: 2022.0.000

Schema Version: rev 20220101

CERTIFICATE OF	сом	IPLIANCE		:				;							NRCC-LTO-E	
Project Name:	W	est Campus HS Ba	aseba	ll & Softball Impr	ovem	ents		Re	eport	Page:					(Page 2 of 7)	
								Da	ate Pr	epared:					4/23/2024	
C. COMPLIAN																
		are automatico nal Conditions		-		•			hroug	h N. Note: If an	y celi	on this table says "	СОМР	PLIES with Exception	nal Conditions" refer	
Calcu	ulatio	ns of Total Allo	wed	ed Lighting Power (Watts) 140.7 /				6 or 141.0(b)2	L / 18	0.2(b)4Bv			Co	mpliance Results		
01		02		03		04		05	1		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	Total Allowed (Watts)	2	Total Actual (Watts)	07 must be >= 08	
1,802	+		+		+		+		OR		=	1,802	≥	1,706	COMPLIES	
						ng Compliance		·							N/A	
				C	ontro	ols Compliance	(See	Table H for De	tails)						COMPLIES	
		CONDITIONS lled with unedit	able	comments becc	iuse (of selections mo	ade d	r data entered	in tak	les throughout	the j	form.				
E. ADDITION	AL R	EMARKS														
This table incl	udes i	remarks made l	by the	e permit applica	int to	the Authority	Havir	ng Jurisdiction.								
								Generated	Date/	Time:				Documentation	n Software: EnergyPro	
CA Building En									Report Version: 2022.0.000 Schema Version: rev 20220101				Compliance ID: EnergyPro-6443-0424-1079 Report Generated: 2024-04-23 18:14:44			

Outdoor Lighting						CALIFORNIA ENE		
CERTIFICATE OF COMPLIANCE	l		Donout Dono				NRCC-LTO-	
Project Name: West Campus HS Baseball & Softball	improvements		Report Page: Date Prepared:				(Page 5 of 7 4/23/202	
			Julie Fopuleur				1, 23, 202	
. LIGHTING POWER ALLOWANCE (per 140.7	/ 170.2(e))							
This table includes areas using allowance calculati	ons per 140.7 / 170.2(e,). General			01			
lardscape Allowance is per Table 140.7-A/Table 1			"Use it or lose i	t" Allowance (select	all that apply) (selec	t all that apply)		
Allowances are per Table 140.7-B /Table 170.2-S. In used to expand sections for user input. Luminaires ose it" allowances shall not qualify for another "UD outdoor lighting attached to multifamily buildings dwelling unit are included in Table H. and are not in butdoor lighting is included here.	that qualify for one of t se it or lose it" allowand and controlled from the	the "Use it or ce. e inside of a	☑ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	
Calculated General Hardscape Lighting Power Allo	wance per Table 140.7-	A for Nonreside	ntial & Hotel/Motel					
02	03	04	05	06	07	08	09	
	Area V	Vattage Allowan	ice (AWA)	Line	ar Wattage Allowan	ce (LWA)	Total General	
Area Description	Illuminated Area (ft²)	Allowed Densi (W/ft²)	ty Area Allowance (Watts)	Perimeter Leng (If)	th Allowed Densit (W/lf)	Linear Allowance (Watts)	AWA + LWA (Watts)	
Walkway	43821	0.019	832.6	2553	0.2	383	1216	
Parking	15074	0.019	286.4	665	0.2	99.8	386	
						Entire Site (Watts):	200	
						owance (LZ 0 only) ¹		
				Total	General Hardscape	Allowance (Watts):	1802	
. LIGHTING ALLOWANCE: PER APPLICATION								
This section does not apply to this project.								
K. LIGHTING ALLOWANCE: SALES FRONTAGE								
This section does not apply to this project.								
LIGHTING ALLOWANCE: ORNAMENTAL		·				·		
his section does not apply to this project.								
							_	
		Gene	rated Date/Time:			Documentation Se	oftware: EnergyPr	
CA Building Energy Efficiency Standards - 2022 Nonresi	dential Compliance		rt Version: 2022.0.000		C	ompliance ID: EnergyPr		
	ma Version: rev 202201	101		Report Generated: 20	24-04-23 18:14:4			



 1 FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b) ² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. ³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain"

for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope. ⁴ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

Report Version: 2022.0.000

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Compliance ID: EnergyPro-6443-0424-1079 Report Generated: 2024-04-23 18:14:44

CALIFORNIA ENERGY COMMISSION

Cutoff Req. >

6,200 initial

130.2(b)/

160.5(c)1⁴

NA: < 6200

lumens

NA: < 6200

Documentation Software: EnergyPro

Report Generated: 2024-04-23 18:14:44

lumens

1,258

448

NRCC-LTO-E (Page 3 of 7)

4/23/2024

Inspector

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Schema Version: rev 20220101

Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E (Page 6 of 7) Project Name: West Campus HS Baseball & Softball Improvements Report Page: Date Prepared: 4/23/2024 M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included 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

Systems/Spaces To Be Field Form/Title Verified NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires. Walkway; Parking;

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Schema Version: rev 20220101

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-121908 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

> LANDSCAPE ARCHITECTURE CIVIL ENGINEERING SPORT PLANNING & DESIGN

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Folsom, CA 95630

tel: 916.415.6554

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CONSULTANT



KEY MAP

SHEET TITLE

EXTERIOR TITLE 24

PROJECT NAME

WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL **IMPROVEMENTS**

PROJECT ADDRESS 5022 58TH STREET SACRAMENTO, CA 95820 SUBMITTAL 50% SUBMITTAL 10/20/23 12/15/23 100% DSA SUBMITTAL BACKCHECK SUBMITTAL 03/18/24 NO. REVISIONS

DRAWN BY CHECKED BY DATE ISSUED 03/18/2024

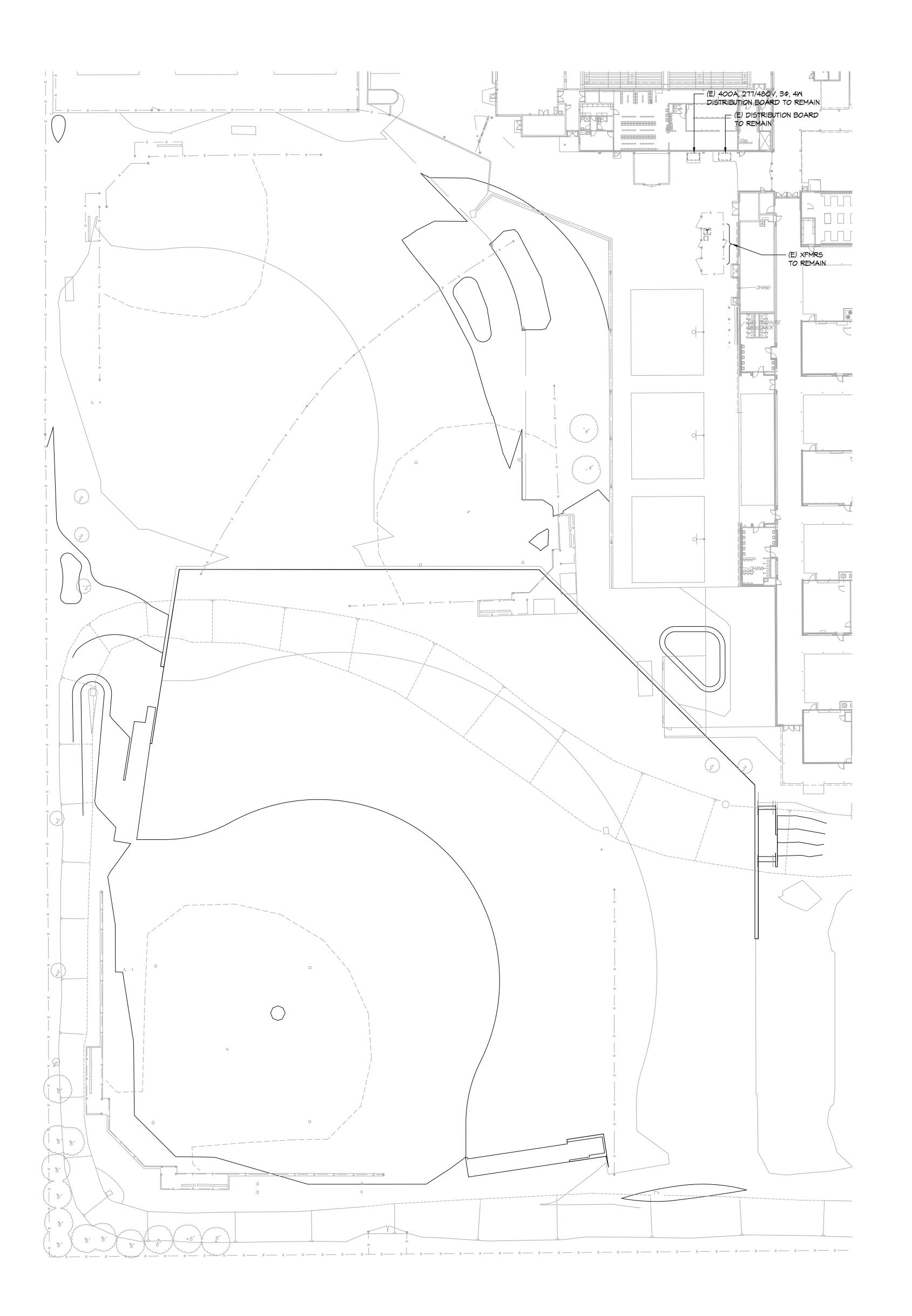
PROJ. NO. 2309900

SHEET NO.

DRAWING NAME: Z:\Projects\Year 2023\EK23095_West Campus H5 Ball Field Improv\E0.2_T24 Exterior.dwg PLOT DATE: 04-25-24 PLOTTED BY: wnguyen

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

EXTERIOR TITLE 24



GENERAL DEMOLITION NOTES:

- 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.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-121908 INC:

REVIEWED FOR

SS FLS ACS

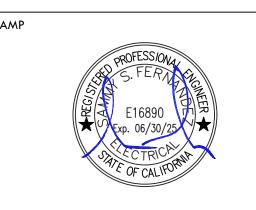


DATE: 05/01/2024

CIVIL ENGINEERING
SPORT PLANNING & DESIGN

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Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525

www.VerdeDesignInc.com



CONSULTANT



MA A P

SHEET TITLE

ELECTRICAL DEMOLITION
SITE PLAN

ROJECT NAME

WEST CAMPUS
HIGH SCHOOL
BASEBALL & SOFTBALL
IMPROVEMENTS

PROJECT ADDRESS

5022 58TH STREET SACRAMENTO, CA 95820

			Г		
SUBM	ITTAL		DATE		
50%	SUBMITTAL		10/20/23		
100%	6 DSA SUBMITTAL		12/15/23		
BACK	CHECK SUBMITTAL		03/18/24		
NO.	REVISIONS		DATE		
DRAW		CHECKED BY			
	CN	AA/SF			

ELECTRICAL DEMOLITION SITE PLAN

E1.0 SCALE: |" = 30'-0"

NORTH

2309900

DATE ISSUED 03/18/2024

PROJ. NO.

___ (₤) 400A, 277/480V, 3Ф, 4W DISTRIBUTION BOARD TO REMAIN (E) DISTRIBUTION BOARD TO REMAIN TO REMAIN E2.I (N) DISTRIBUTION 2 PNL. BOARD PAD E.I. - (N) ROMTEC BLDG. BY OTHER

GENERAL NOTES:

- 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 2022 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
- IO. 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.
- II. 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.

SHEET NOTES:

- I RRIGATION BOOSTER PUMP. CONTRACTOR SHALL INSTALL AND TERMINATE PER EQUIPMENT MANUFACTURER REQUIREMENTS. COORDINATE WITH LANDSCAPE / DISTRICT FOR EXACT LOCATION.
- 2 IRRIGATION CONTROLLER CONTRACTOR SHALL INSTALL AND TERMINATE PER EQUIPMENT MANUFACTURER REQUIREMENTS. COORDINATE WITH LANDSCAPE / DISTRICT FOR EXACT LOCATION.
- 3 LOCATE INTERCEPT AND EXTEND CONDUIT TO OUTGOING CONDUIT FROM RESTROOM BUILDING THAT IS STUBBED 5' FROM WALL.

CONDUIT SCHEDULE:

POWER SYSTEMS

(|) (|) 2"C - POWER - SOFTBALL BATTING CAGE

< 2 > (I) 2"CO - SPARE

 \langle 3 \rangle (1) 2"C - POWER - SOFTBALL DUGOUT

 \langle 4 \rangle (I) 2"C - POWER - SOFTBALL BACKSTOP

 \langle 5 \rangle (2) 2"C - LIGHTING - SOFTBALL DUGOUT $\langle 6 \rangle$ (2) 2"C - POWER - SOFTBALL DUGOUT

(7) (1) 2"C - POWER - SOFTBALL SCOREBOARD

(8) (1) 2"C - POWER - BASEBALL SCOREBOARD

 \langle 9 \rangle (1) 2"C - POWER - BASEBALL BATTING CAGE (IO) (I) 2"C - POWER - BASEBALL BACKSTOP

(||) (2) 2"CO - SPARE

(12) (2) 2"C - POWER - BASEBALL DUGOUT

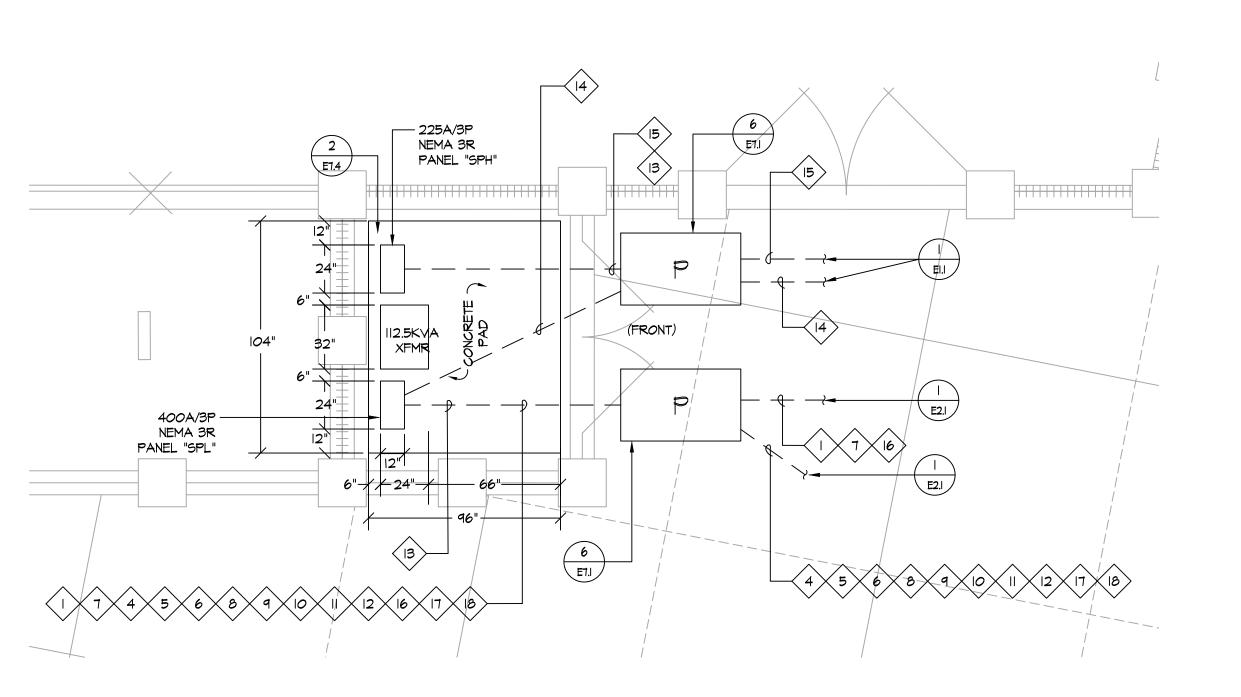
(3) 2"CO - SPARE

<14> (1) 2"C - POWER - ROMTEC PANEL

(15) (1) 3"C - POWER - DISTRIBUTION (16) (1) 2"C - LIGHTING - SOFTBALL BATTING CAGE

 \langle |7 \rangle (|) 2"C - LIGHTING - BASEBALL BATTING CAGE

 \langle 18 \rangle (1) 1-1/4"C - POWER - IRRIGATION CONTROLLER



ENGLARGED ELECTRICAL DISTRIBUTION PAD

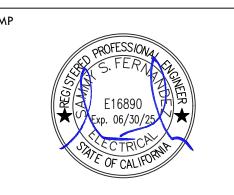
E1.1 SCALE: 1/4" = 1'-0"

NORTH

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-121908 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/01/2024

> **VERDE DESIGN** LANDSCAPE ARCHITECTURE CIVIL ENGINEERING

SPORT PLANNING & DESIGN 1843 Iron Point Rd. Suite 140 Folsom, CA 95630 tel: 916.415.6554 fax: 916.415.6525 www.VerdeDesignInc.com



CONSULTANT



ELECTRICAL OVERALL SITE PLAN

WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL **IMPROVEMENTS**

5022 58TH STREET SACRAMENTO, CA 95820

50% SUBMITTAL 100% DSA SUBMITTAL BACKCHECK SUBMITTAL NO. REVISIONS

DATE ISSUED 03/18/2024 PROJ. NO.

2309900

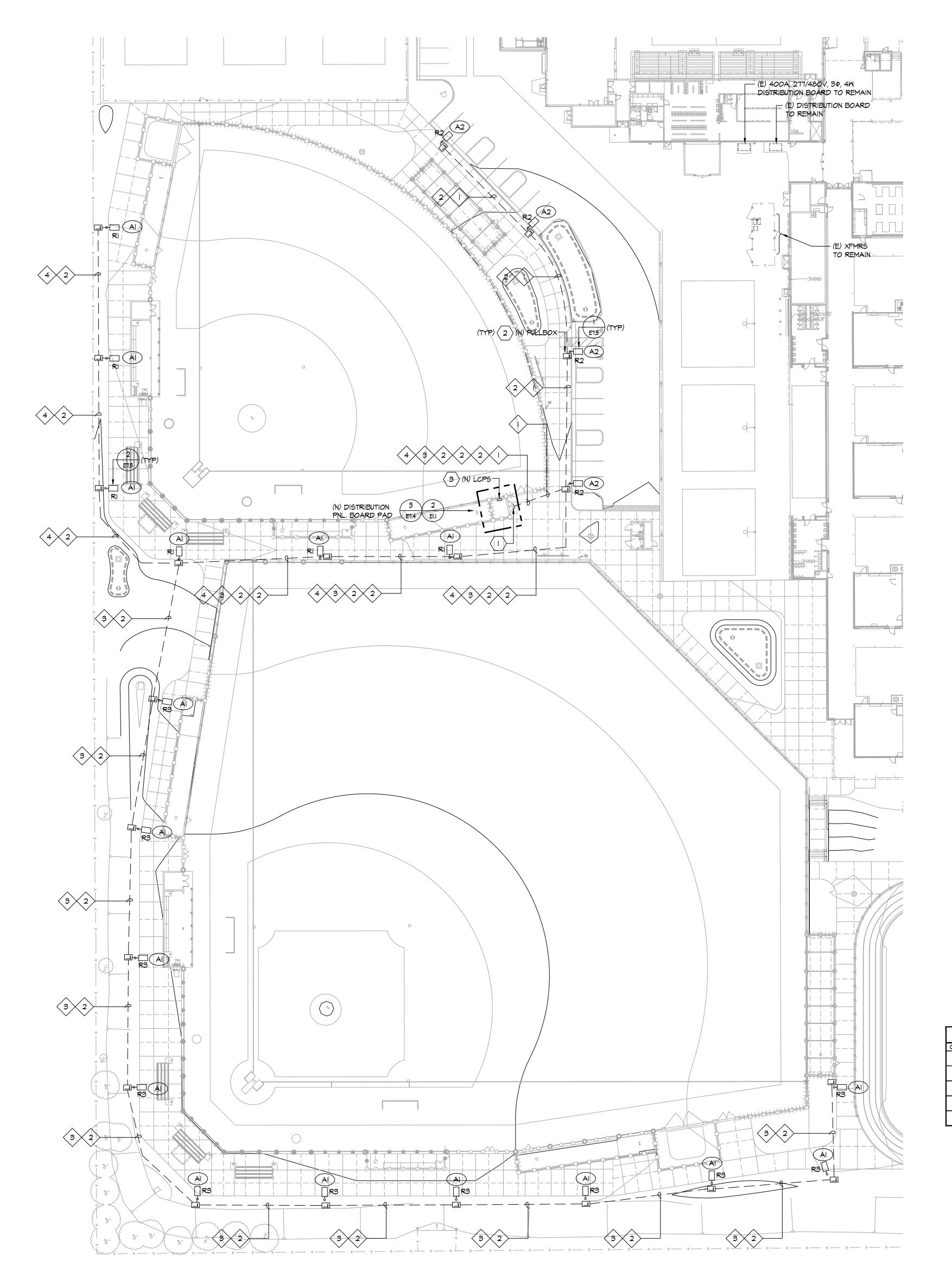
SHEET NO.

E1.1 | SCALE: |" = 30'-0"

ELECTRICAL OVERALL SITE PLAN

DRAWING NAME: Z:\Projects\Year 2023\EK23095_West Campus HS Ball Field Improv\El.I_Electrical Overall Site Plan.dwg PLOT DATE: 04-25-24 PLOTTED BY: wnguyen

ELECTRICAL OVERALL SITE PLAN



GENERAL NOTES:

- 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.
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- 10. IN-GRADE PULL BOX IDENTIFIED WITH 'L' SHALL HAVE LID LABELED
- REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.

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ALL COMMUNICATION SYSTEMS CONDUIT IN "SIGNAL" BOXES AS

REQUIRED BY CODE. 14. ALL PULL BOXES SHALL BE TRAFFIC RATED B2436 UNLESS

OTHERWISE NOTED. SEE DETAIL FOR SPECIFICS.

DRAINAGE, ETC.

15. COORDINATE PULL BOX ORIENTATION WITH LANDSCAPE ARCHITECT TO BE SQUARE WITH SURFACE CURB, CONCRETE WALKWAY,

SHEET NOTES

- () ROUTE BRANCH LIGHTING CIRCUIT TO (N) PNL "SPH" WITH AVAILABLE (3) 20/IP CIRCUIT BREAKER FOR EACH LTG.
- RELAY RI, R2, R3 VIA NEW LCP. PROVIDE PULLBOX PER DETAIL 4/ET.I AT EACH POLE LOCATION SHOWN IN THE DRAWING. COORDINATE EXACT
- LOCATION AND REQUIREMENTS WITH LANDSCAPE ARCHITECT. (3) CONTRACTOR TO PROVIDE 36" X 30" X 12" NEMA-3R CABINET WITH HINGE TYPE DOOR WITH LOCKABLE HASP. OBTAIN PAD LOCK FROM OWNER TO SECURE. PROVIDE OUTDOOR ENGRAVED NAME PLATE AND IDENTIFY AS " EGRESS LIGHTING CABINET." SIZE AS REQUIRED TO FIT LCP. NEMA-3R CABINET TO BE MOUNT ON

CONDUIT SCHEDULE:

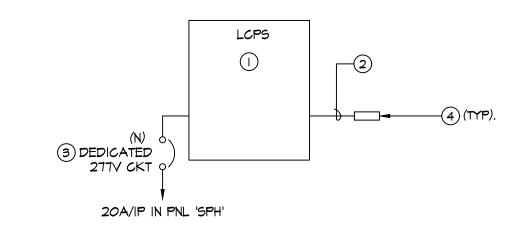
LIGHTING SYSTEMS

UNISTRUTS. PROVIDE AS NEEDED.

- ig(| ig> (1) 2"C (2)#10 AMG + #10 CU GND PARKING LIGHT.
- < 2 > (1) 2"C SPARE
- \langle 3 \rangle (1) 2"C (2)#8 AWG + #10 CU GND BASEBALL PED. LIGHT.
- \langle 4 \rangle (I) 2"C (2)#IO AMG + #IO CU GND SOFTBALL PED. LIGHT.

					FIXTURE SCHEDULE		
TYPE	LAMPS	LAMP QUANTITY	BALLAST	MOUNTING	DESCRIPTION		WEIGHT
A	40M LED	N/A	N/A	BATTING CAGE	SINGLE HEAD LED RECTANGULAR LUMINAIRE WITH DIE CAST ALUMINUM ALLOY HOUSING. FIXTURE TO BE EQUIPPED WITH ADJUSTABLE BRACKET AND HARDWIRE TO MOUNT BELOW BATTING CAGE FENCE. FIXTURE SHALL BE PROVIDED WITH MINIMUM 3-YEAR WARRANTY. SUBMIT DOCUMENTATION OF PRODUC AT CLOSE OUT. NOTE: FIXTURE USED AS BATTING CAGE LIGHTS.	СТ	IOlbs.
					NORTHSTAR LIGHTING - #EX-40W-A2-N-4-90-VI-Y UN	V	
Al	74M LED 4000K	O-IOV DIMMING		MOUNTED ON A 15' POLE WITH A 4" BASE. TOTAL HEIGHT IS 15-4" WITH BASE.	POLE MOUNTED SINGLE HEAD LUMINAIRE. FIXTURE HOUSING SHALL BE ONE PIECE DIE CAST ALUMINUM. FIXTURE EPA SHALL BE A MAXIMUM OF .35 FTIQ2IWIAIS. LENSED LED ARRAYS ARE SET TO ACHIEVE TYPE II DISTRIBUTION AND OPTICAL SYSTEMS ARE FIELD ROTATABLE UTILIZING HIGH PERFORMANCE CLASS I LED SYSTEMS. LUMINAIRE SHALL BE EQUIPPED WITH AN LED O-IOV DIMMING DRIVER THAT ACCEPTS 120V THROUGH 27TV 60HZ INPUT. DRIVER OUTPUT SHALL BE BASED ON LED WATTAGE SELECTED. FINISH SHALL BE FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED TGIC POLYESTER POWDERCOAT FINISH IN BRONZE COLOR. FIXTURE SHALL BE UL LISTED FOR WET LOCATION. POLES SHALL BE IS' HIGH, 4" STRAIGHT SQUARE STEEL. THE POLE SHAFT SHALL BE A SINGLE PIECE II GAUGE CARBON STEEL. THE FORMED STEEL PLATE SHALL BE LONGITUDINALLY MELDED PROVIDING MINIMUM YIELD STRENGTH OF 46KSI. THE ANCHOR BASE SHALL BE A-36 STRUCTURAL CARBON STEEL WITH A MINIMUM YEILD STRENGTH OF 36KSI. THE BASE PLATE SHALL TELESCOPE INTO THE POLE SHAFT AND BE CIRCUMFERENTIALLY WELDED ON THE TOP AND BOTTOM. 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 I2" ABOVE THE BASE. HANDHOLE SHALL BE PROVIDED WITH A COVER PLATE AND ATTACHMENT SCREWS. POLE SHALL ALSO BE PROVIDED WITH A POLE TOP CAP. FINISH SHALL BE TGIC POLYESTER POMDER COAT ELECTROSTATICALLY APPLIED AND THERMALLY CURED AND SHALL BE BLACK IN COLOR. 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.		40 LBS
					GARDCO - PUREFORM #P26 - 48L - 500 - NWG2 - AR - II - UNV - BZ (WITH OCC. SENSOR) UN' FIXTURE MOUNTED ON A 15' POLE WITH 4" BASE (I-FIXTURE HEAD)	Y	
A2	115W LED 4000K	O-IOV DIMMING	N/A	MOUNTED ON A 21' POLE WITH A 3' BASE. TOTAL HEIGHT 15 24' WITH BASE. 2 E15	POLE MOUNTED SINGLE HEAD LUMINAIRE. FIXTURE HOUSING SHALL BE ONE PIECE DIE CAST ALUMINUM. FIXTURE EPA SHALL BE A MAXIMUM OF .35 SQ. FT. LENSED LED ARRAYS ARE SET TO ACHIEVE TYPE IV DISTRIBUTION AND OPTICAL SYSTEMS ARE FIELD ROTATABLE UTILIZING HIGH PERFORMANCE CLASS I LED SYSTEMS. LUMINAIRE SHALL BE EQUIPPED WITH AN LED O-IOV DIMMING DRIVER THAT ACCEPTS 120V THROUGH 27TV 60HZ INPUT. DRIVER OUTPUT SHALL BE BASED ON LED WATTAGE SELECTED. FINISH SHALL BE FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED TGIC POLYESTER POWDERCOAT FINISH IN BRONZE COLOR. FIXTURE SHALL BE UL LISTED FOR WET LOCATION. POLES SHALL BE 21' HIGH, 4" STRAIGHT SQUARE STEEL. THE POLE SHAFT SHALL BE A SINGLE PIECE II GAUGE CARBON STEEL. THE FORMED STEEL PLATE SHALL BE LONGITUDINALLY WELDED PROVIDING MINIMUM YIELD STRENGTH OF 46KSI. THE ANCHOR BASE SHALL BE A-36 STRUCTURAL CARBON STEEL WITH A MINIMUM YEILD STRENGTH OF 36KSI. THE BASE PLATE SHALL TELESCOPE INTO THE POLE SHAFT AND BE CIRCUMFERENTIALLY WELDED ON THE TOP AND BOTTOM. ANCHOR BOLTS SHALL BE PROVIDED WITH THE POLE. ANCHOR BOLTS SHALL MEET OR EXCEED YIELD STRENGTH OF 50,000PSI. EACH ANCHOR BOLT		40 LBS
					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 SCREMS. POLE SHALL ALSO BE PROVIDED WITH A POLE TOP CAP. FINISH SHALL BE TGIC POLYESTER POWDER COAT ELECTROSTATICALLY APPLIED AND THERMALLY CURED AND SHALL BE BLACK IN COLOR. 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. A2 - GARDCO - PUREFORM #P26 - 64L - 600 - NWG2 - AR - IV - UNV - BZ FIXTURE MOUNTED ON A 21' POLE WITH 36" BASE (I-FIXTURE HEAD)	47	

	Site Name	: WEST CAMPUS LC	P SCHEDULE			
Channel	Description	Scenario *	On / Occupied at:	Off / Unoccupied at:	Flick?	Time Delay
Α	EXTERIOR	Auto On/Auto Off	Dusk On	9:00PM off	No	O Min.
В	INTERIOR	Auto On/Auto Off	Dusk On	12:00AM off	No	O Min.
c	EXTERIOR	Auto On/Auto Off	Dusk On	Dawn off	No	O Min.
D						
E						



LCP RISER NOTES:

- (I) (N) LCPS (LIGHTING CONTROL PANEL) IS LOCATED INSIDE THE NEMA-3R ELECTRICAL ENCLOSURE SECTION. SEE ELECTRICAL SITE PLAN FOR EXACT LOCATION OF THE NEMA-3R
- (2) COORDINATE WITH WATTSTOPPER MANUFACTURER AND PROVIDE CABLES REQUIRED TO CONNECT TO CONTROL SMITCH. CABLES SHALL BE UNDERGROUND RATED AS NEEDED. ROUTING IS DIAGRAMMATIC.
- (3) ROUTE (N) $\frac{3}{4}$ "C WITH (2)#12 AND (1)#12 GND. TO DIST. PANEL FOR POWER CONNECTION.
- (4) PROVIDE OVERRIDE SWITCH FOR CONTROL OF LIGHTS. PROVIDE IN NEMA-3R, CLOCKABLE BOX. COORDINATE EXACT LOCATION WITH ARCHITECT.

10	ΤE	<u>S:</u>			

- 1. LCP SHALL BE WATTSTOPPER #LMCP24, 277V PANEL. PANEL SHALL BE PROVIDED WITH 16
- 3. CONTRACTOR TO PROVIDE A COMPLETE FULLY OPERATIONAL SYSTEM WITH ALL CABLES CONNECTED.
- 4. CONTRACTOR SHALL COORDINATE THE LCP SCHEDULE WITH THE DISTRICT PRIOR TO PROGRAMMING.
- 5. PROVIDE ALL DIMMING CABLES AS REQUIRED PER MANUFACTURER RECOMMENDATION.

Description	LV Switch/Sensor	Α	В	(
SOFTBALL PED LIGHT POLE	VIA LCP	1		×
PARKING LIGHT	VIA LCP			×

SITE LIGHTING SCHEDULE:

Relay #	Circuit	Description	LV Switch/Sensor	A	В	C	D	E	F	G	
RI	SPH	SOFTBALL PED LIGHT POLE	VIA LCP			Х					ſ
R2	SPH	PARKING LIGHT	VIA LCP			X					Ī
R3	SPH	BASEBALL PED LIGHT POLE	VIA LCP			X					Γ
R4		SPARE									Γ
R5		SPARE									Γ
R6		SPARE									ſ
R7		SPARE									Ī
R8		SPARE									ſ
R9		SPARE									ſ
RIO		SPARE									ſ
RII		SPARE									ſ
RI2		SPARE									Ī
RI3		SPARE									Γ
RI4		SPARE									Γ
RI5		SPARE									Γ
RI6		SPARE									Γ
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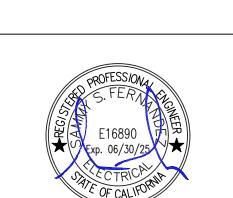


IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-121908 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/01/2024



CIVIL ENGINEERING SPORT PLANNING & DESIGN 1843 Iron Point Rd. Suite 140 Folsom, CA 95630 tel: 916.415.6554 fax: 916.415.6525

www.VerdeDesignInc.com



CONSULTANT



ELECTRICAL LIGHTING SITE PLAN

WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL **IMPROVEMENTS**

PROJECT ADDRESS 5022 58TH STREET SACRAMENTO, CA 95820

SUBM	MITTAL		DAT
50%	SUBMITTAL		10/20
100%	% DSA SUBMITTAL		12/15
BACK	03/18		
NO.	REVISIONS		DAT
DRAW		CHECKED BY	
	CN	AA/	SF

NORTH

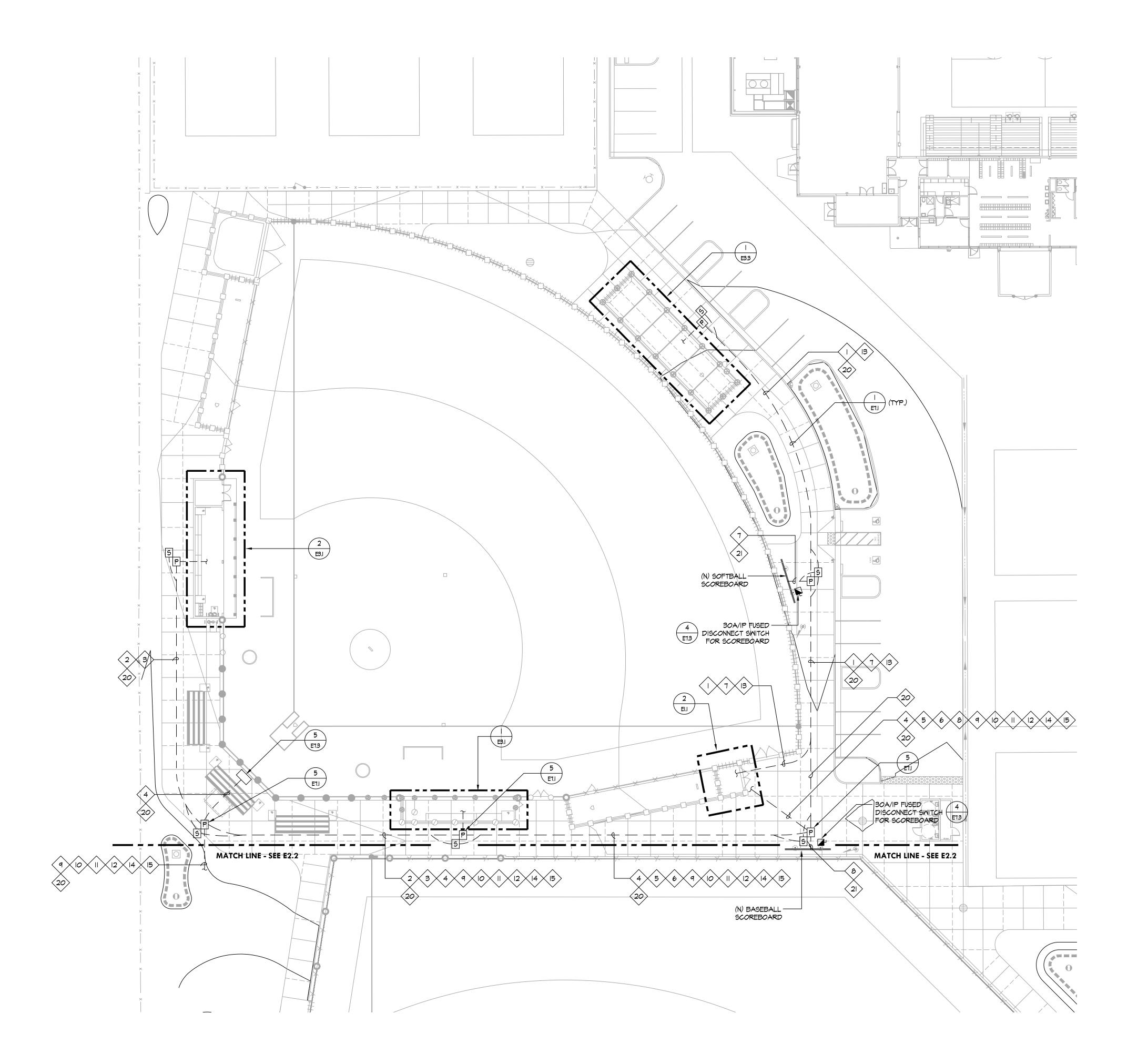
DATE ISSUED 03/18/2024 PROJ. NO. 2309900 SHEET NO.

ELECTRICAL LIGHTING SITE PLAN

DRAWING NAME: Z:\Projects\Year 2023\EK23095_West Campus HS Ball Field Improv\El.2_Electrical Lighting Site Plan.dwg PLOT DATE: 04-25-24 PLOTTED BY: wnguyen

E1.2 | SCALE: |" = 30'-0"

ELECTRICAL LIGHTING SITE PLAN



GENERAL NOTES:

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REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND

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CONDUIT SCHEDULE:

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(I) 2"CO - SPARE

3 (1) 2"C - POWER - SOFTBALL DUGOUT

4 (I) 2"C - POWER - SOFTBALL BACKSTOP

5 (2) 2"CO - SPARE

REQUIRED BY CODE.

DRAINAGE, ETC.

6 (2) 2"C - POWER - SOFTBALL DUGOUT

7 (I) 2"C - POWER - SOFTBALL SCOREBOARD

8 (I) 2"C - POWER - BASEBALL SCOREBOARD

9 (I) 2"C - POWER - BASEBALL BATTING CAGE
10 (I) 2"C - POWER - BASEBALL BACKSTOP

| | (2) 2"CO - SPARE

(2) 2"C - POWER - BASEBALL DUGOUT

13 (1) 2"C - LIGHTING - SOFTBALL BATTING CAGE

14 (1) 2"C - LIGHTING - BASEBALL BATTING CAGE

NORTH

(I) | 1/4"C - POWER - IRRIGATION CONTROLLER

COMMUNICATION SYSTEMS

20) (2) 2"CO - SIGNAL

21) (1) 2"CO - SIGNAL

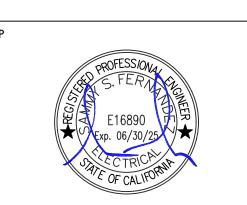
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REVIEWED FOR
SS FLS ACS DATE: 05/01/2024



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Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com



CONSULTANT



ELECTRICAL ENLARGED SOFTBALL SITE PLAN - NEW

PROJECT NAME

WEST CAMPUS
HIGH SCHOOL
BASEBALL & SOFTBALL
IMPROVEMENTS

PROJECT ADDRESS

5022 58TH STREET SACRAMENTO, CA 95820

SODMITTAL			DAIL
50% SUBMITTAL			10/20/2
100% DSA SUBMITTAL			12/15/2
BACKCHECK SUBMITTAL			03/18/2
NO.	REVISIONS		DATE
$\overline{\bigwedge}$			
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\triangle			
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DRAWN BY CN		CHECKED BY AA/SF	
DATE ISSUED 03/18/2024		SCALE	

2309900

ELECTRICAL ENLARGED SOFTBALL SITE PLAN - NEW

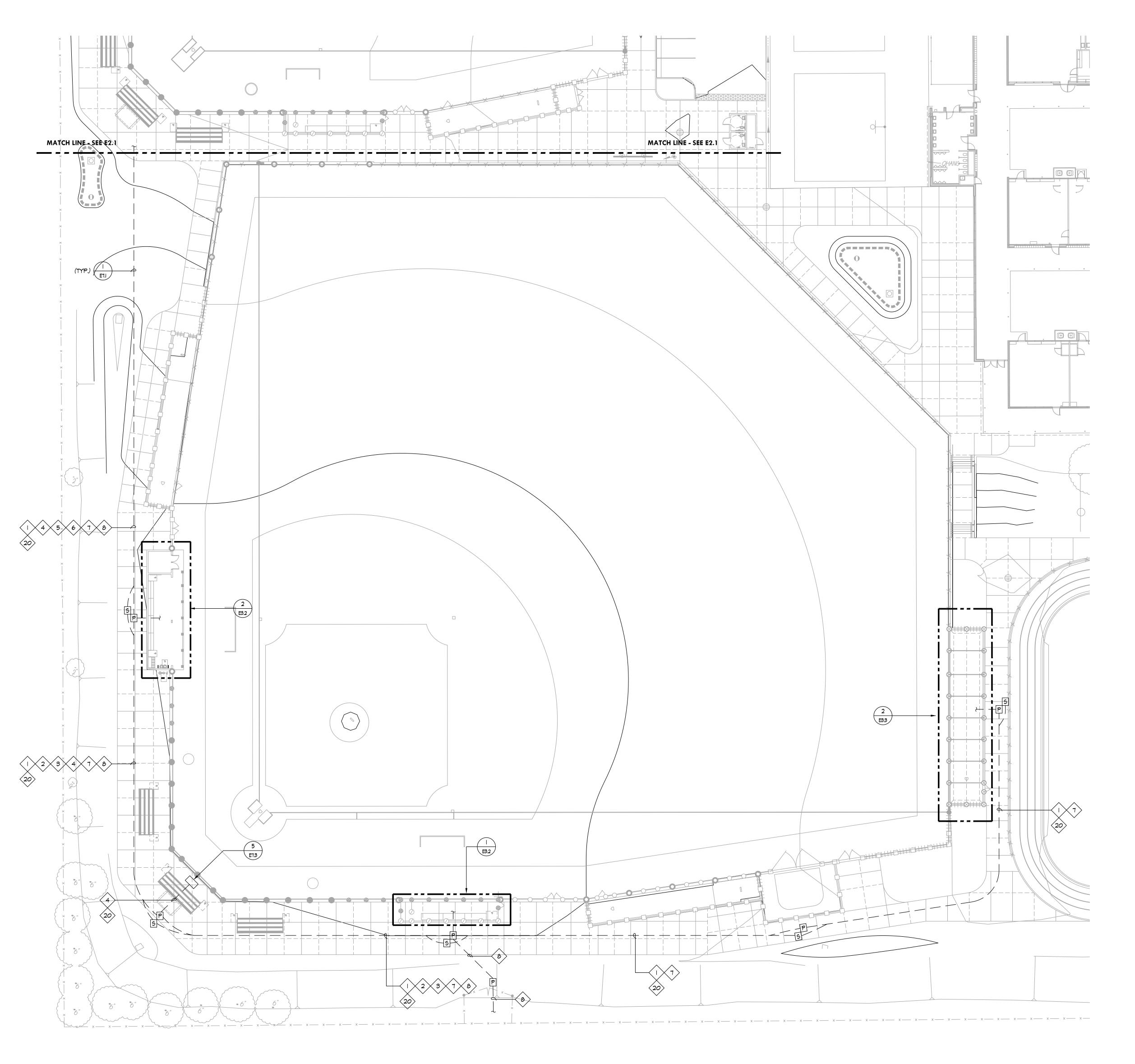
E2.1 SCALE: |" = 20'-0"

8 L

DRAWING NAME: Z:\Projects\Year 2023\EK23095_West Campus H5 Ball Field Improv\E2.I_Enlarged Softball Site Plan.dwg
PLOT DATE: 04-25-24 PLOTTED BY: wnguyen

ELECTRICAL ENLARGED SOFTBALL SITE PLAN - NEW

PROJ. NO.



GENERAL NOTES:

- 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 2022 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'.
- IO. 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.

II. 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.

CONDUIT SCHEDULE:

POWER SYSTEMS

(I) 2"C - POWER - BASEBALL BATTING CAGE

2 (I) 2"CO - SPARE

3 (I) 2"C - POWER - BASEBALL DUGOUT

4) (I) 2"C - POWER - BASEBALL BACKSTOP

5 (2) 2"CO - SPARE

6 (2) 2"C - POWER - BASEBALL DUGOUT

7) (1) 2"C - LIGHTING - BASEBALL BATTING CAGE

8 (I) I-I/4"C - POWER - IRRIGATION CONTROLLER

COMMUNICATION SYSTEMS

20 (2) 2"CO - SIGNAL

21) (1) 2"CO - SIGNAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-121908 INC:

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DATE: 05/01/2024



LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

1843 Iron Point Rd. Suite 140

1843 Iron Point Rd. Suite 140 Folsom, CA 95630 tel: 916.415.6554 fax: 916.415.6525 www.VerdeDesignInc.com



CONSULTANT



Y MAP

ELECTRICAL ENLARGED
BASEBALL
SITE PLAN - NEW

PROJECT NA

WEST CAMPUS
HIGH SCHOOL
BASEBALL & SOFTBALL
IMPROVEMENTS

PROJECT ADDRES

5022 58TH STREET SACRAMENTO, CA 95820

SUBMITTAL

50% SUBMITTAL

10/20/23

100% DSA SUBMITTAL

12/15/23

BACKCHECK SUBMITTAL

03/18/24

NO. REVISIONS

DATE

A

DRAWN BY

CN

CHECKED BY

AA/SF

2309900

NORTH

8 L

DRAWING NAME: Z:\Projects\Year 2023\EK23095_West Campus HS Ball Field Improv\E2.2_Enlarged Baseball Site Plan.dwg
PLOT DATE: 04-25-24 PLOTTED BY: wnguyen

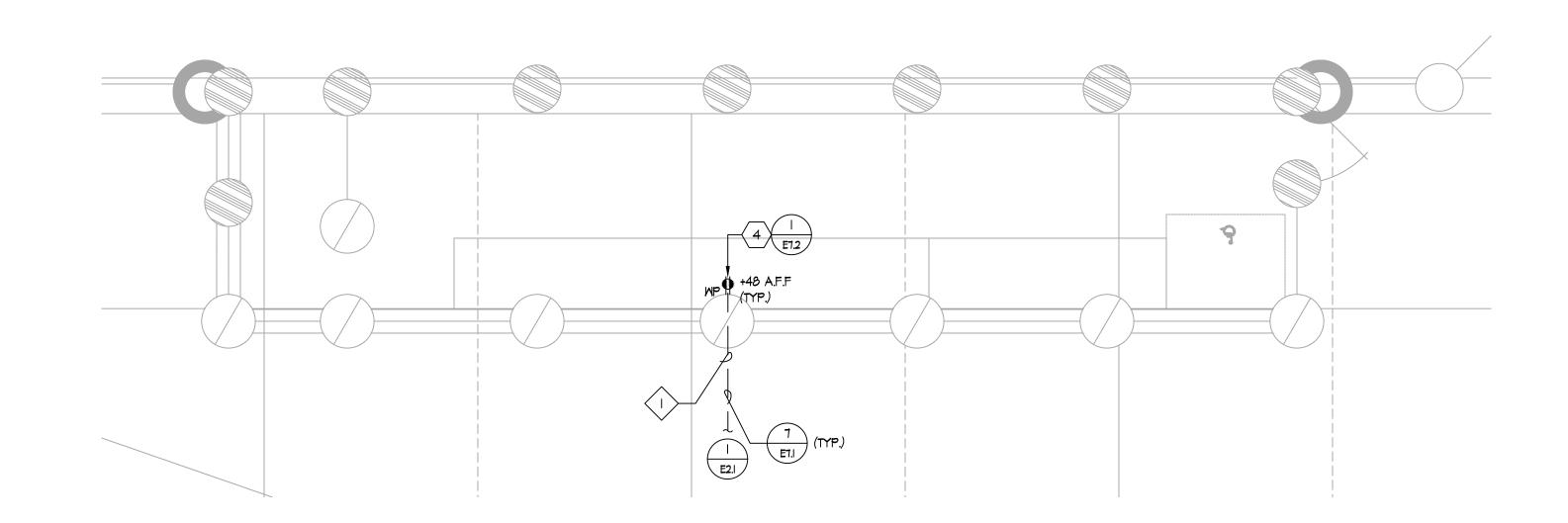
E2.2 SCALE: I" = 20'-0"

DATE ISSUED

PROJ. NO.

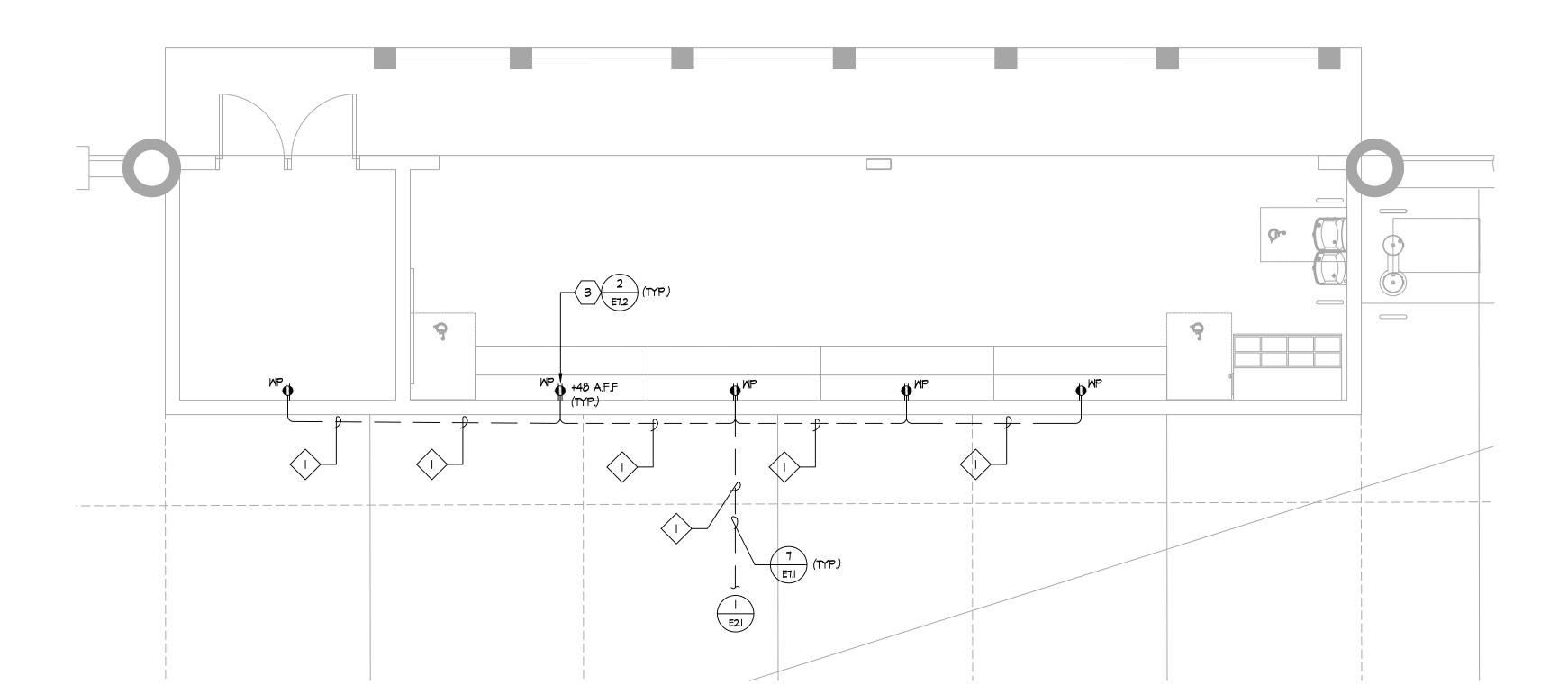
SHEET NO.

03/18/2024



ELECTRICAL PLAN - FIRST BASE DUGOUT (SOFTBALL VISITOR)

E3.1 SCALE: 1/4" = 1'-0"



ELECTRICAL PLAN - THIRD BASE DUGOUT (SOFTBALL HOME)

E3.1 | SCALE: |/4" = |'-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 1/E7.1 AND 7/E7.1 FOR TRENCHING REQUIREMENTS.
- CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, SPORT FIELD LIGHTS, CONTROL CABINETS, WIRING, CONDUITS, ETC TO SUCCESSFULLY INSTALL NEW SPORTFIELD LIGHTING.
- 9. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
- IO. 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.

SHEET NOTES:

- PROVIDE (N) TIMER SWITCH IN HEAVY DUTY, 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 LIGHT FIXTURES AND CONDUIT SHALL BE ROUTED ALONG STRUCTURAL BEAM.
 CONTRACTOR SHALL COORDINATE INSTALLATION WITH ARCHITECT AND
 STRUCTURAL
- PROVIDE AND INSTALL MEATHERPROOF, 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 WITH CMU CONTRACTOR TO INSTALL OUTLET FLUSH. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.
- PROVIDE AND INSTALL MEATHERPROOF, GFCI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH FENCING CONTRACTOR TO INSTALL OUTLET ON FENCE POST. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.

CONDUIT SCHEDULE:

(N) | 1/2"C - RECEPTACLE

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DIV. OF THE STATE ARCHITECT

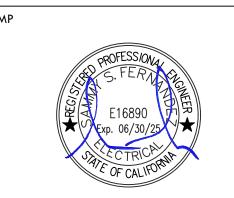
APP: 02-121908 INC:

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SS FLS ACS D

DATE: 05/01/2024



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CONSULTANT



SHEET TITLE

ELECTRICAL PLAN
DUGOUTS (SOFTBALL)

PPO JECT NAA

WEST CAMPUS
HIGH SCHOOL
BASEBALL & SOFTBALL
IMPROVEMENTS

PROJECT ADDRES

5022 58TH STREET SACRAMENTO, CA 95820

50% SUBMITTAL 10/20/23

100% DSA SUBMITTAL 12/15/23

BACKCHECK SUBMITTAL 03/18/24

NO. REVISIONS DATE

O DATE

C DATE

DRAWN BY
CN CN AA/SF

DATE ISSUED
03/18/2024

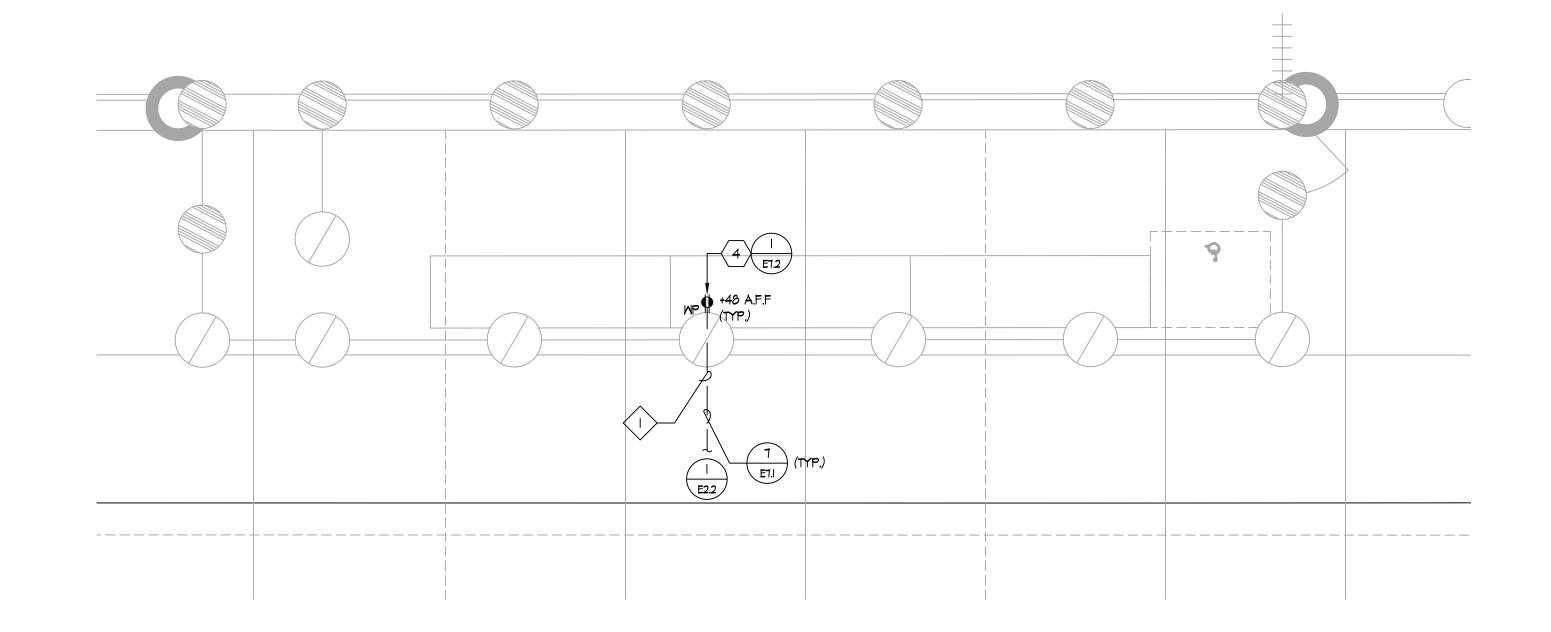
PROJ. NO.

2309900

8 L

DRAWING NAME: Z:\Projects\Year 2023\EK23095_West Campus H5 Ball Field Improv\E3.I_Electrical Plan_Dugouts Softball.dwg
PLOT DATE: 04-25-24 PLOTTED BY: wnguyen

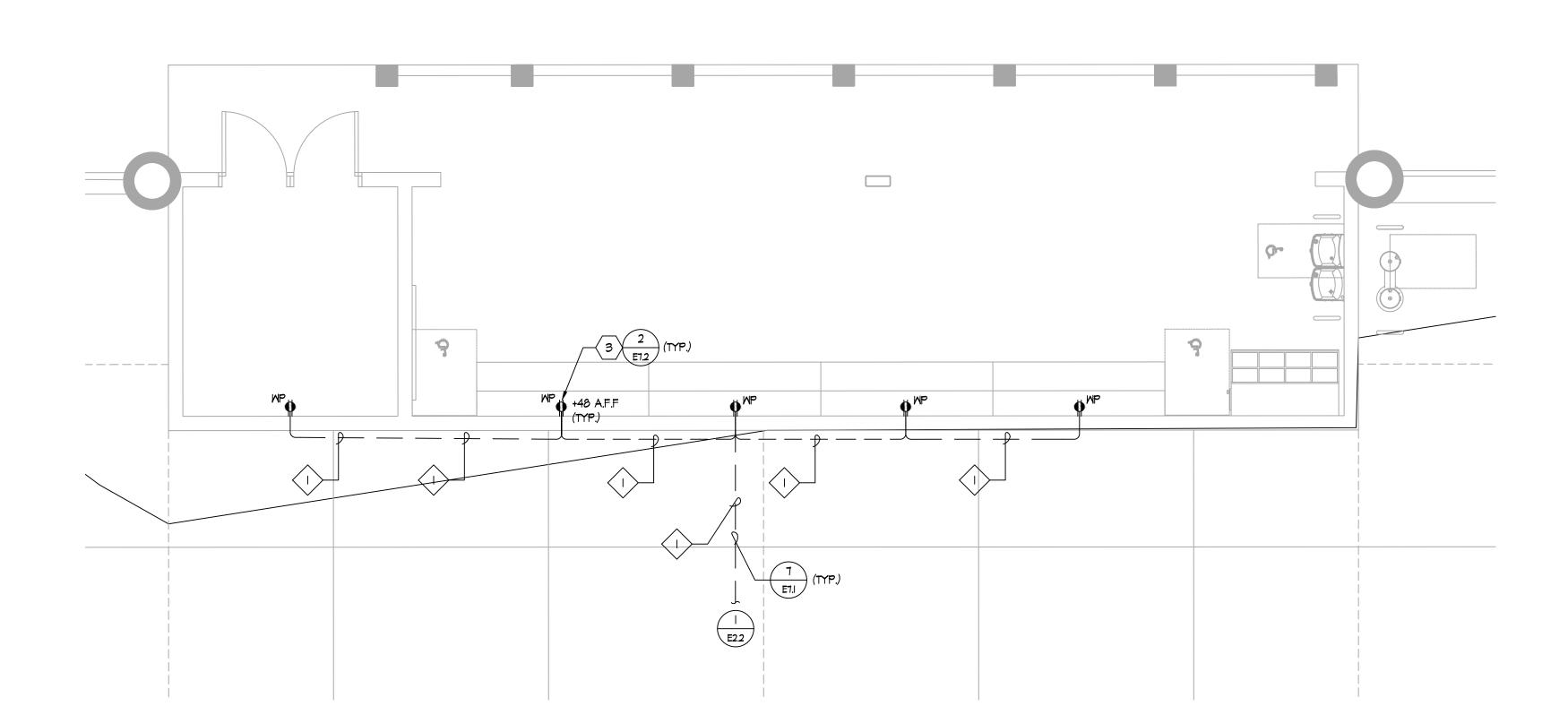
ELECTRICAL PLAN DUGOUTS (SOFTBALL)



1

ELECTRICAL PLAN - FIRST BASE DUGOUT (BASEBALL VISITOR)

E3.2 SCALE: |/4" = |'-0"



2

ELECTRICAL PLAN - THIRD BASE DUGOUT (BASEBALL HOME)

E3.2 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.
- ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
- 7. SEE DETAIL I/ET.I AND 1/ET.I FOR TRENCHING REQUIREMENTS.
- CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, SPORT FIELD LIGHTS, CONTROL CABINETS, WIRING, CONDUITS, ETC TO SUCCESSFULLY INSTALL NEW SPORTFIELD LIGHTING.
- 9. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
- IO. 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.

SHEET NOTES:

- PROVIDE (N) TIMER SWITCH IN HEAVY DUTY, 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 LIGHT FIXTURES AND CONDUIT SHALL BE ROUTED ALONG STRUCTURAL BEAM.
 CONTRACTOR SHALL COORDINATE INSTALLATION WITH ARCHITECT AND
 STRUCTURAL
- 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 WITH CMU CONTRACTOR TO INSTALL OUTLET FLUSH. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.
- PROVIDE AND INSTALL MEATHERPROOF, GFCI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED MITH RAIN-TIGHT "MHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. CONTRACTOR SHALL COORDINATE MITH FENCING CONTRACTOR TO INSTALL OUTLET ON FENCE POST. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.

CONDUIT SCHEDULE:

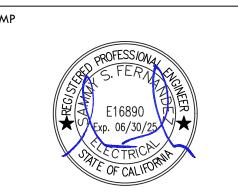
(N) | 1/2"C - RECEPTACLE

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121908 INC:

REVIEWED FOR SS FLS ACS DATE: 05/01/2024



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SHEET TITLE

ELECTRICAL PLAN DUGOUTS (BASEBALL)

PROJECT NA

WEST CAMPUS
HIGH SCHOOL
BASEBALL & SOFTBALL
IMPROVEMENTS

PROJECT ADDRES

5022 58TH STREET SACRAMENTO, CA 95820

SUBMITTAL

50% SUBMITTAL

10/20/23

100% DSA SUBMITTAL

12/15/23

BACKCHECK SUBMITTAL

03/18/24

NO. REVISIONS

DATE

A

CHECKED BY
AA/SF

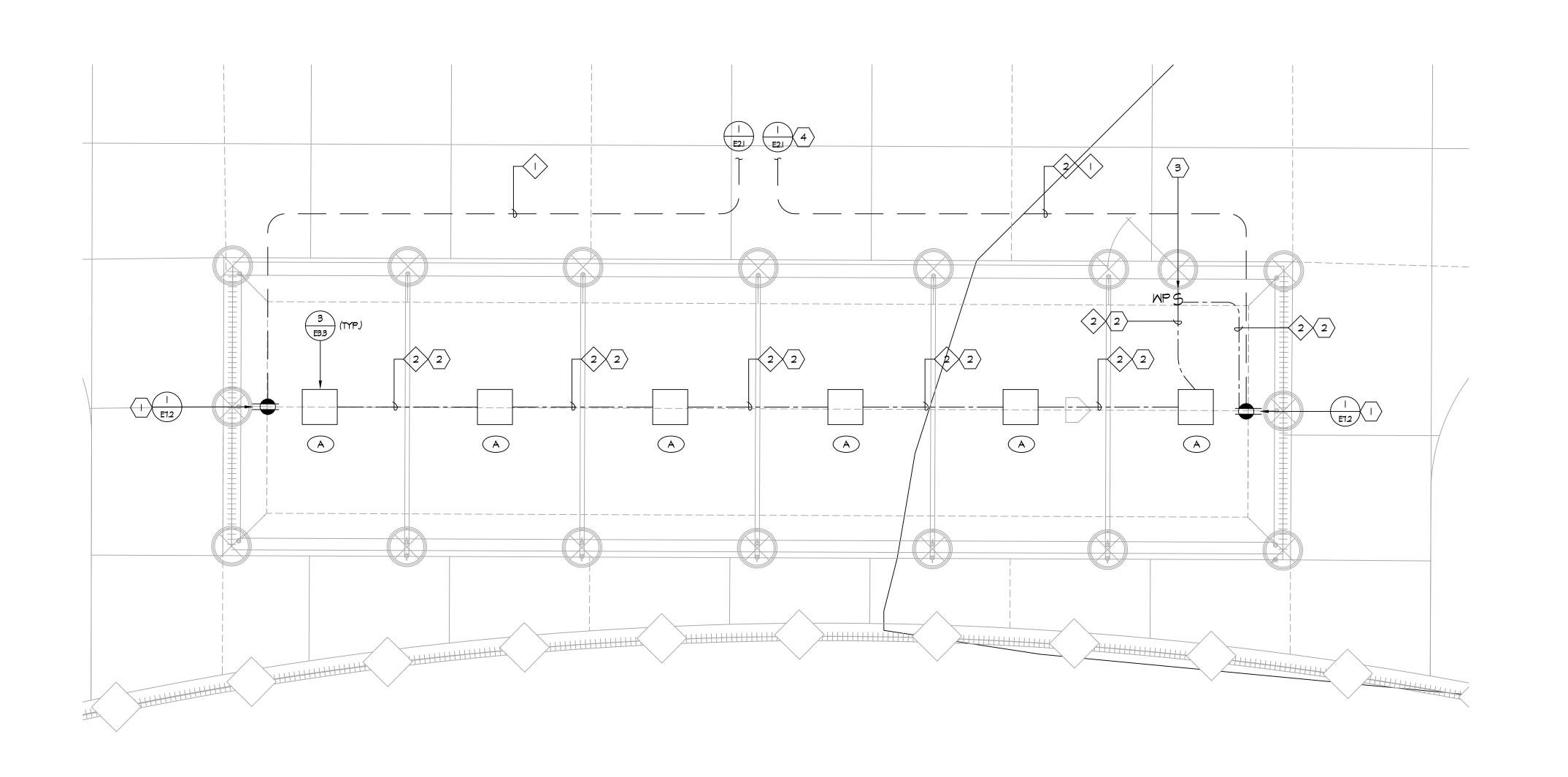
DATE ISSUED
03/18/2024

SCALE

2309900

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DRAWING NAME: Z:\Projects\Year 2023\EK23095_West Campus H5 Ball Field Improv\E3.2_Electrica Plan_Dugouts Baseball.dwg
PLOT DATE: 04-25-24 PLOTTED BY: wnguyen

PROJ. NO.



ELECTRICAL FLOOR PLAN - BATTING CAGE (SOFTBALL)

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

A A A A 3 2 3 1 (3) 4 I I E22

ELECTRICAL FLOOR PLAN - BATTING CAGE (BASEBALL)

E3.3 | SCALE: 1/4" = 1'-0"

DRAWING NAME: Z:\Projects\Year 2023\EK23095_West Campus HS Ball Field Improv\E3.3_Electrical Plan Batting Cage.dwg PLOT DATE: 04-25-24 PLOTTED BY: wnguyen

GENERAL NOTES:

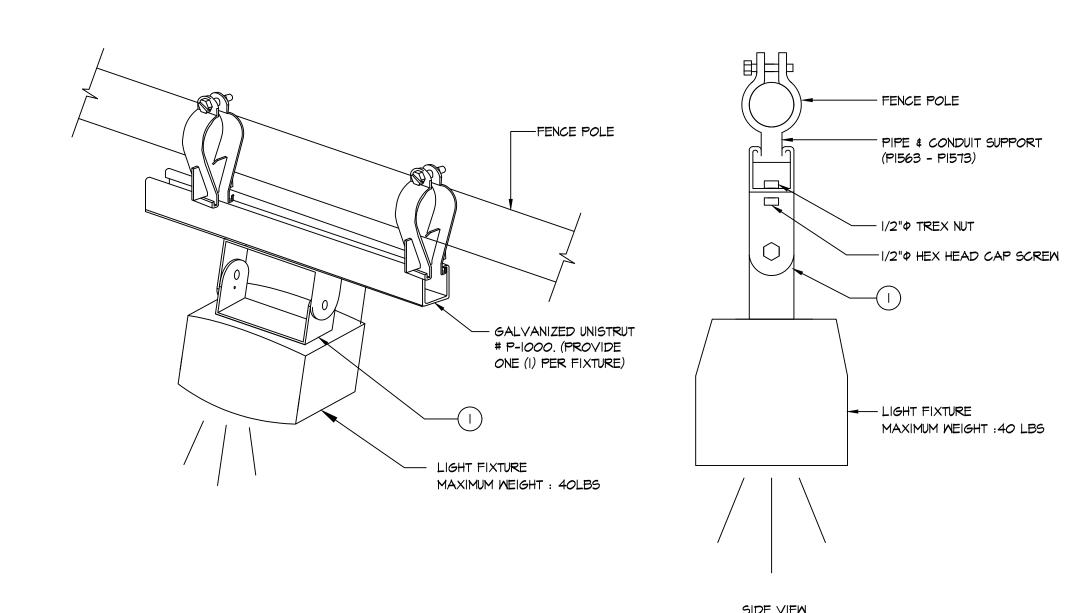
- CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
- 2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND 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 1/E7.1 FOR TRENCHING REQUIREMENTS.
- 8. EXPOSED CONDUIT FOR BATTING CAGE LIGHTING SHALL BE RIGID STEEL CONDUIT.
- 9. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.

SHEET NOTES:

- 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. CONTRACTOR SHALL COORDINATE WITH FENCING CONTRACTOR TO INSTALL OUTLET ON FENCE POST. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.
- \langle 2 \rangle NEW LIGHTING CONDUIT SHALL BE EXPOSED ON BATTING CAGE FENCE
- 3 PROVIDE (N) TIMER SWITCH IN HEAVY DUTY, 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.
- 4 ROUTE BRANCH LIGHTING CIRCUIT FOR BATTING CAGE LIGHT TO (N) PNL "SPH" WITH AVAILABLE (I) 20/IP CIRCUIT BREAKER.

CONDUIT SCHEDULE:

- (N) | 1/2"C RECEPTACLE BATTING CAGE
- 2 (N) | 1/2"C LIGHTING BATTING CAGE (SOFTBALL) W/ (2) #10 & (1) #10 CU GND.
- (N) | 1/2"C LIGHTING BATTING CAGE (BASEBALL) W/ (2) #6 \$ (1) #10 CU GND.



FIXTURE MOUNTING NOTES:

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

FIXTURE MOUNTING ON BATTING CAGE

E3.3 NOT TO SCALE

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SHEET TITLE

ELECTRICAL PLAN - BATTING CAGE -BASEBALL & SOFTBALL

PROJECT NAME WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL

5022 58TH STREET SACRAMENTO, CA 95820

IMPROVEMENTS

10/20/23 50% SUBMITTAL 12/15/23 100% DSA SUBMITTAL BACKCHECK SUBMITTAL NO. REVISIONS DRAWN BY DATE ISSUED 03/18/2024 PROJ. NO. 2309900

