

NOT TO SCALE

SHEET INDEX

ARCHITECTURAL

CODE ANALYSIS OVERALL SITE PLAN

DEMOLITION PLANS ENLARGED FLOOR PLAN **ENLARGED REFLECTED CEILING PLAN**

ENLARGED ROOF PLAN ELEVATION AND SECTIONS

ACCESSIBILITY SHEET SHEETS = 10

STRUCTURAL

TYPICAL NOTES & SCHEDULES TYPICAL DETAILS CANOPY FOUNDATION PLAN S2.2 CANOPY ROOF FRAMING PLAN MISCELLANEOUS DETAILS

ELECTRICAL

E1.0 ELECTRICAL SCHEDULES, SYMBOLS & NOTES ELECTRICAL ONE LINE DIAGRAM & PANEL SCHEDULE

ELECTRICAL DETAILS ELECTRICAL DEMOLITION PLANS & NOTES

E3.0 ENLARGED ENLARGED FLOOR PLANS & NOTES

ELECTRICAL ENLARGED PHOTOMETRIC PLAN & NOTES ET24 ELECTRICAL T24 LIGHTING CALCULATIONS SHEETS = 7

TOTAL SHEETS = 22

NORTH

IDENTIFICATION STAME DIV. OF THE STATE ARCHITEC APP: 02-118729 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

HMRARCHITECTS

Sacramento, CA 95818



DSA #02-118729

FILE #48-C1

STEEL FRAME OUTDOOR COVERED WELDING SHOP AREA

> **SOLANO COMMUNITY** COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

DSA APPROVED SET

REVISIONS

NO. DESCRIPTION

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED WORK OF HMR ARCHITECTS AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE

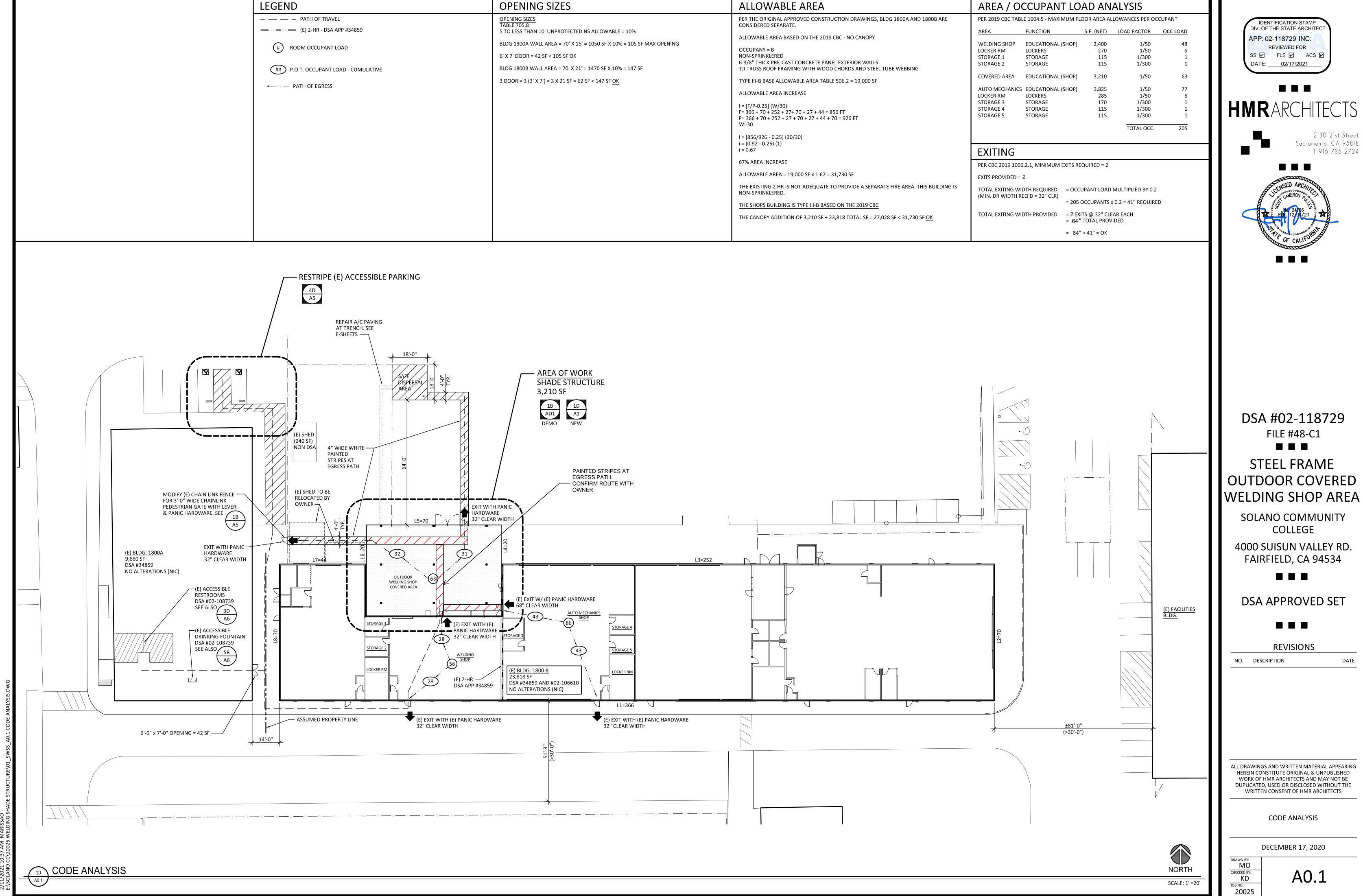
WRITTEN CONSENT OF HMR ARCHITECTS

COVER SHEET

DECEMBER 17, 2020

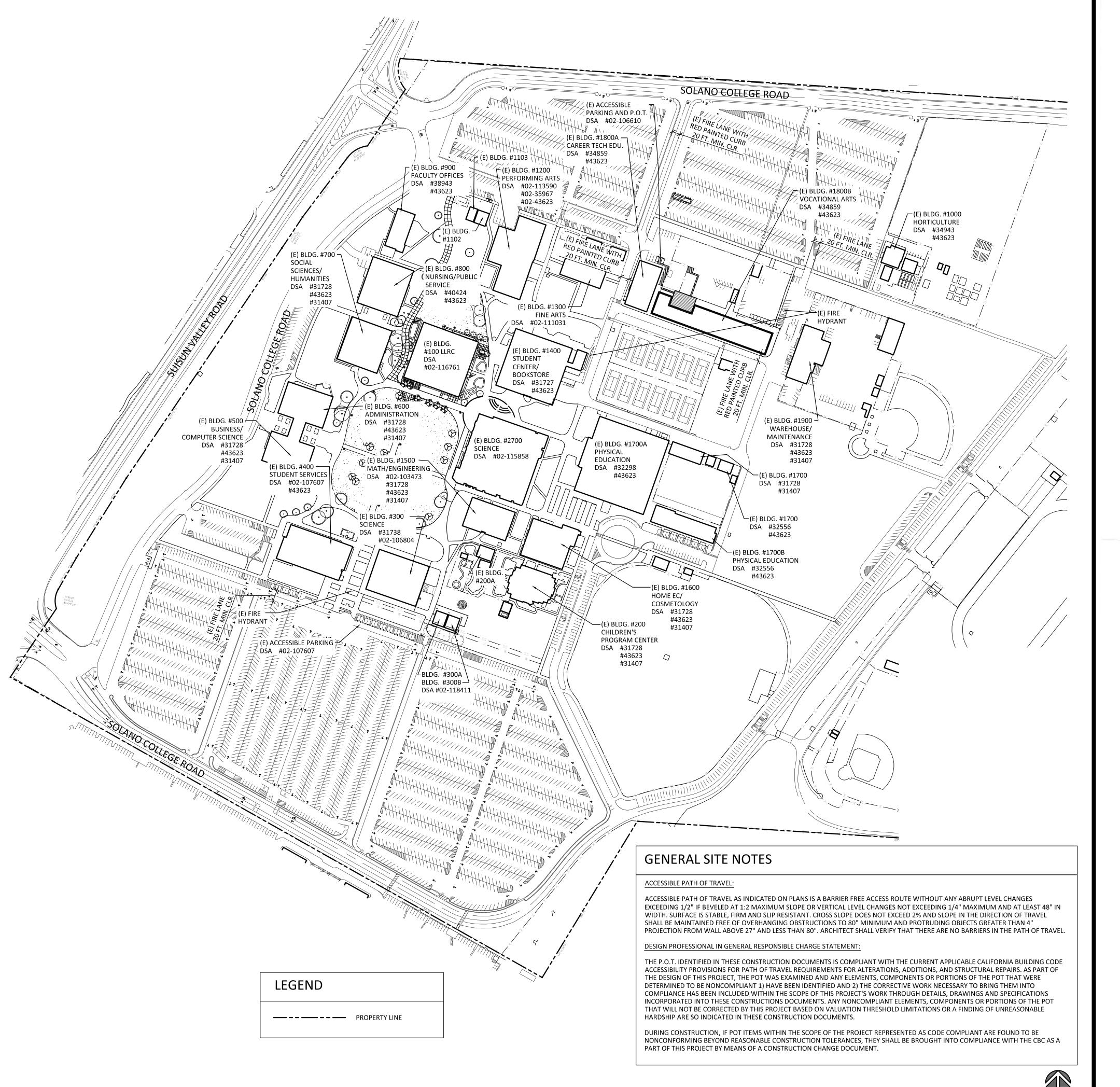
DRAWN BY: CHECKED BY: KD JOB NO. 20025

A0



2130 21st Street T 916 736 2724

OUTDOOR COVERED



OVERALL SITE PLAN



810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for

PROJECT INFORMATION School District/Owner: Solano Community College District Project Name/School: Steel frame outdoor covered shop area / Solano Community College Project Address: 4000 Suisun Valley Road Fairfield CA 94534

| 1. | Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.) | months? Yes 🗷 | | | | | |
|----|---|---------------|--------|-------------|--|--|--|
| 2. | Was the fire hydrant water flow test performed as part of this LFA review? Yes ☑ | | | | | | |
| 3. | Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.) | Yes 🗆 | | No 🗷 | | | |
| | Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/ | Moderate 🗆 | High 🗆 | Very High 🗆 | | | |

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES

Page 1 of 4 STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

| CON | IDITION MEANS AND METHODS RESOLUTION | ALTERNATE ACCEPTED | | | | | | |
|-------------|--|--------------------|----|-----|-----|--|--|--|
| | | Yes | No | N/A | N/R | | | |
| 4. | Emergency vehicle access roadways do not meet CFC requirements. | | | X | | | | |
| 4a. | Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property. | | | | | | | |
| 5. | Fire Hydrants: Number and spacing does not meet CFC requirements. | | | X | | | | |
| 5a . | Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property. | | | | | | | |
| 6. | Fire Hydrants: Water flow and pressure are less than CFC minimum. | | | | | | | |
| 6a. | Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property. | 1 | | | | | | |
| 7. | Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements. | | | | ~ | | | |
| 7a. | Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property. | | | | | | | |

School District Acceptance of Acceptable Design Alternates

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

LOCAL FIRE AUTHORITY (LFA) INFORMATION LFA Agency Name: Cordelia Fire Protection District LFA Review Official: Tim Walton, Vacaville Fire Protection District Title: Battalion Chief Work Phone: (707) 447-2252 Work Email: Tim.walton@vfpd.net

DGS DSA 810 (revised 01/30/20) DIVISION OF THE STATE ARCHITECT

NORTH

SCALE: 1"=150'

DEPARTMENT OF GENERAL SERVICES

Page 2 of 4 STATE OF CALIFORNIA

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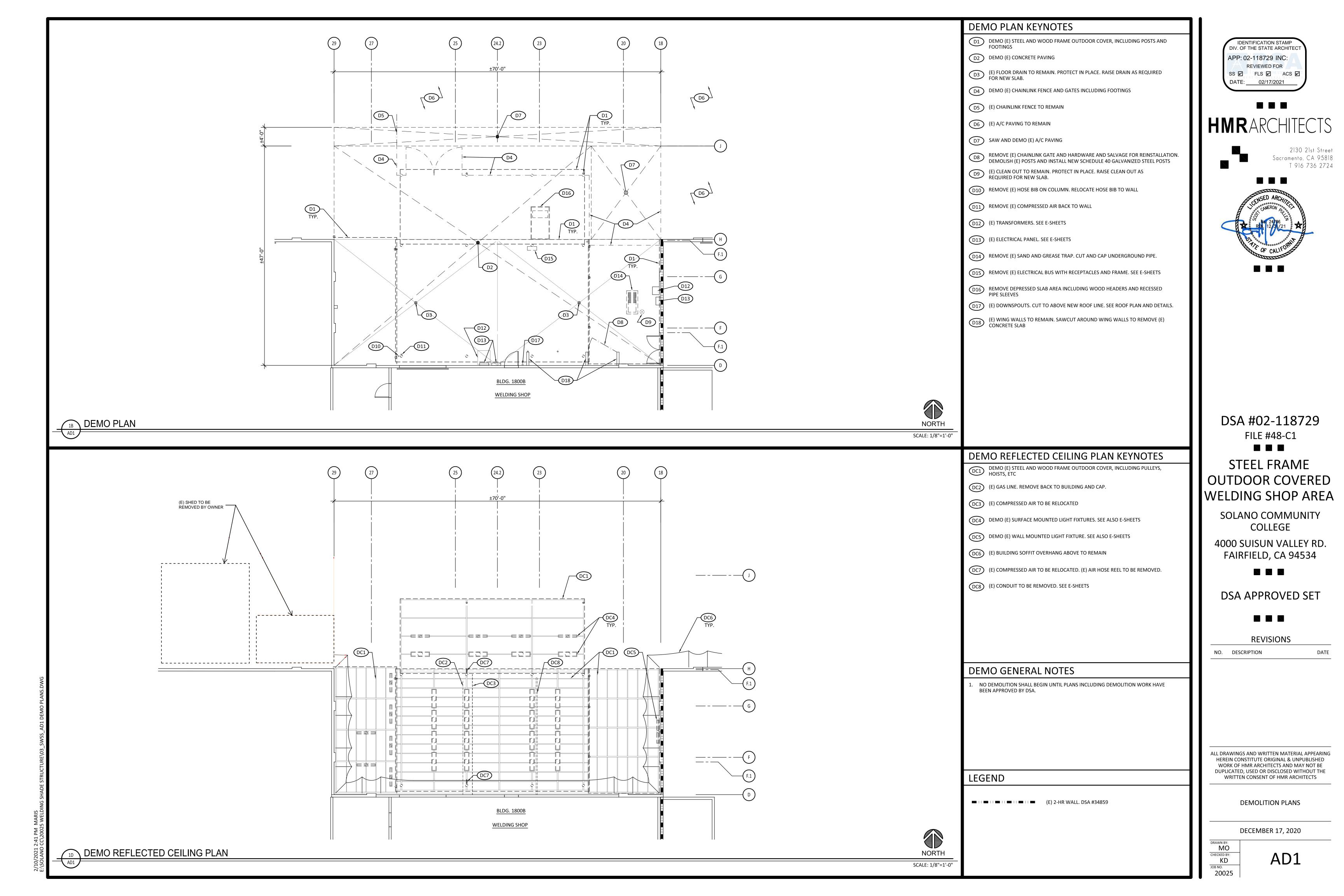
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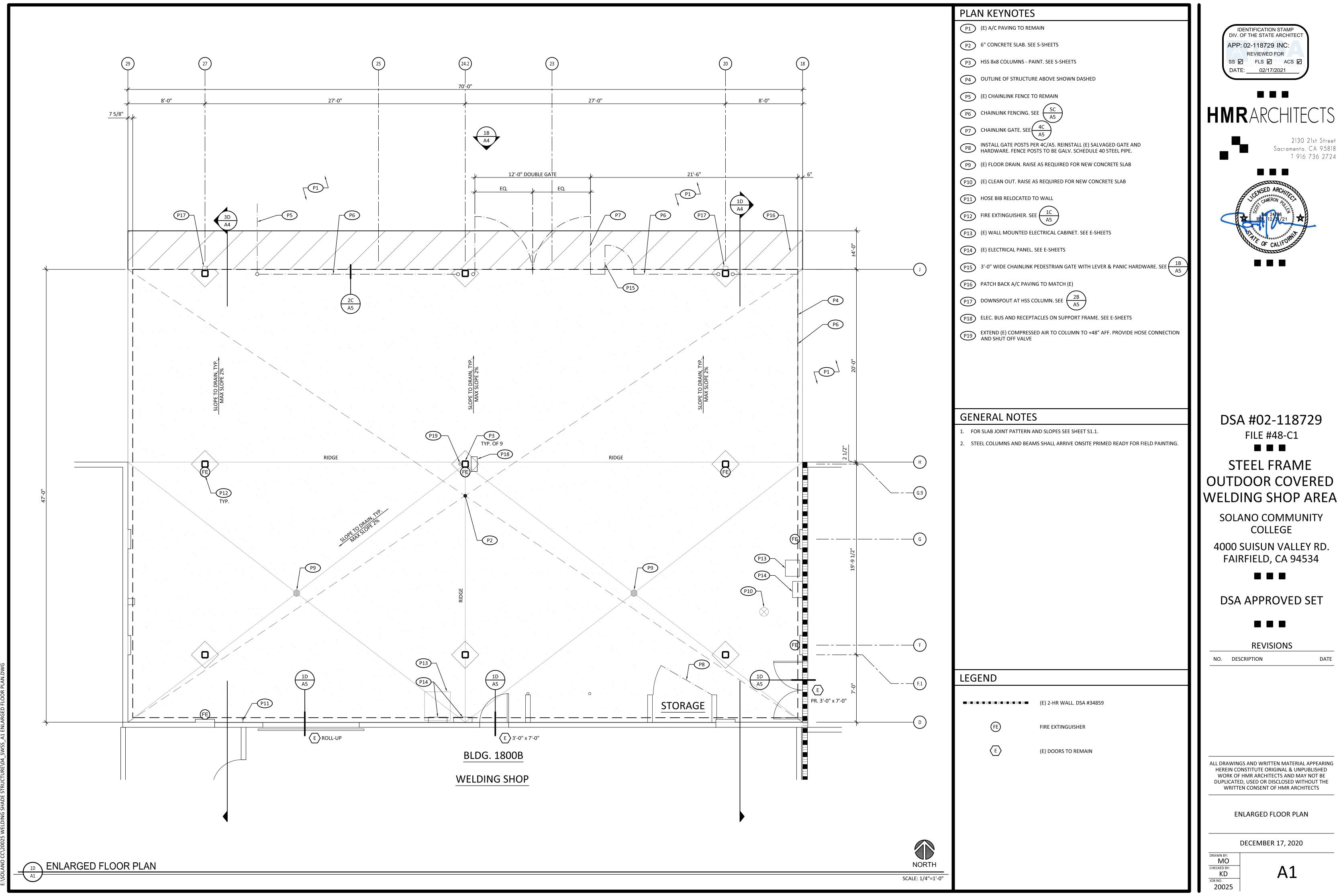
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OVERALL SITE PLAN

DECEMBER 17, 2020 DRAWN BY: CHECKED BY: KD

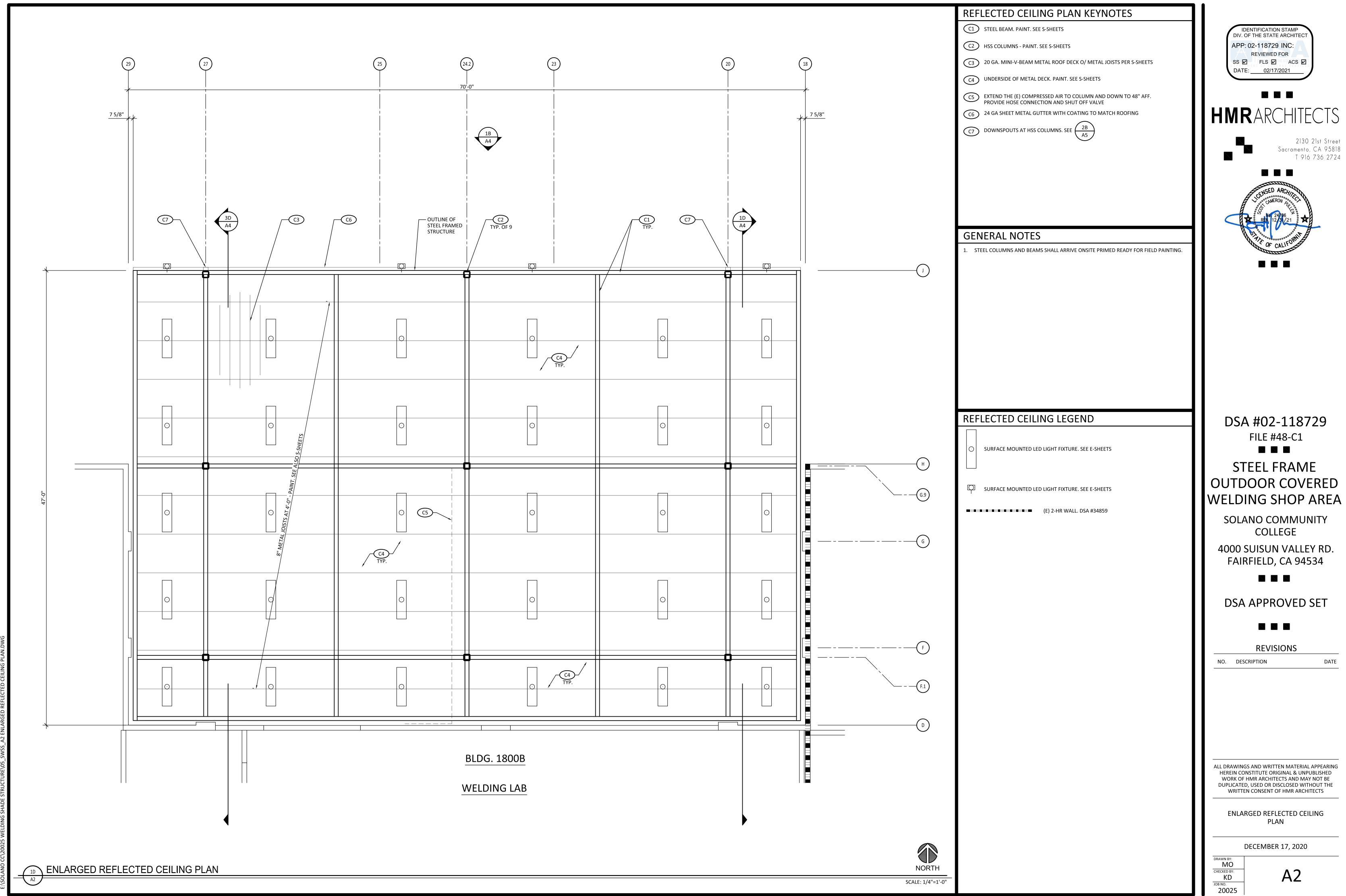
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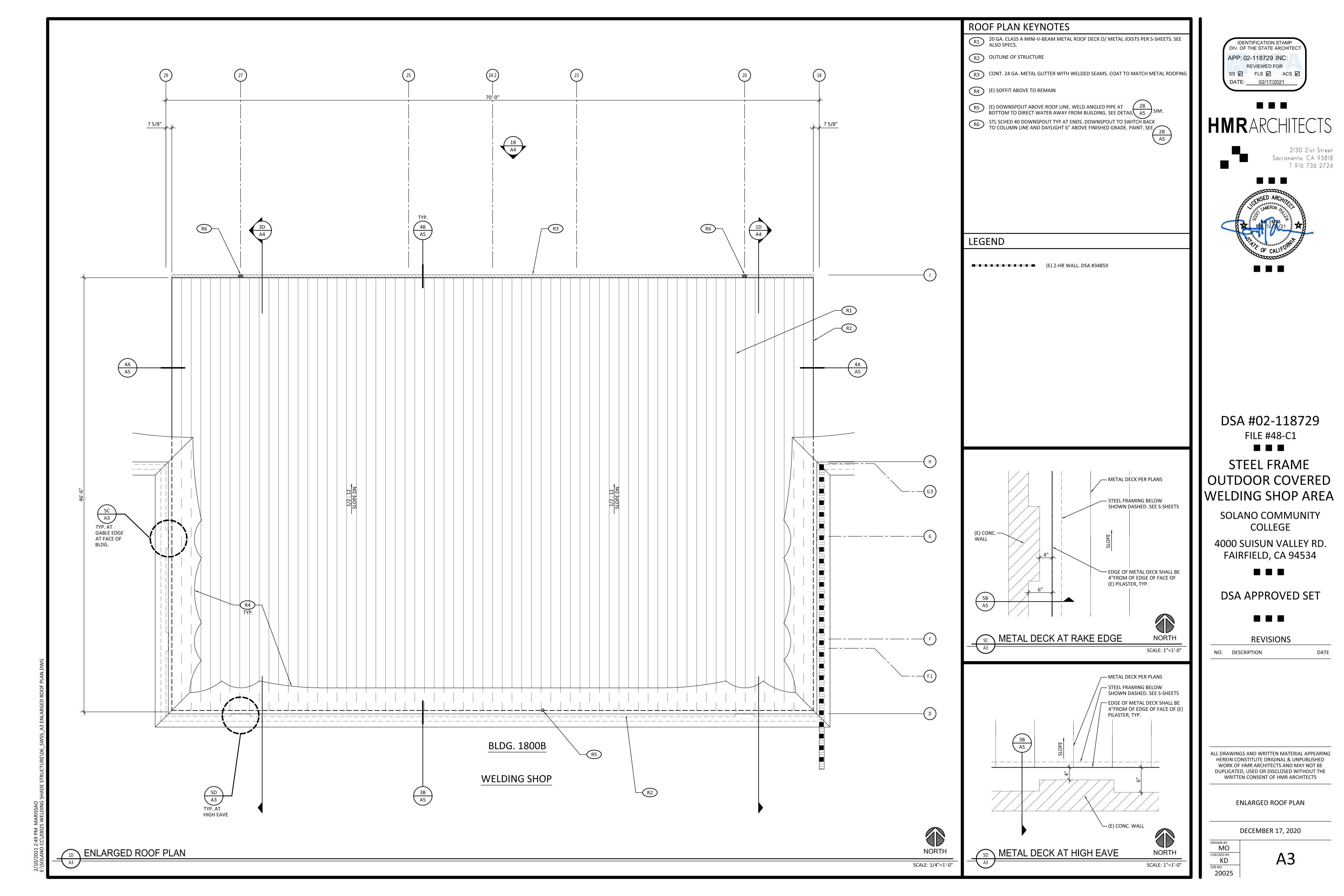
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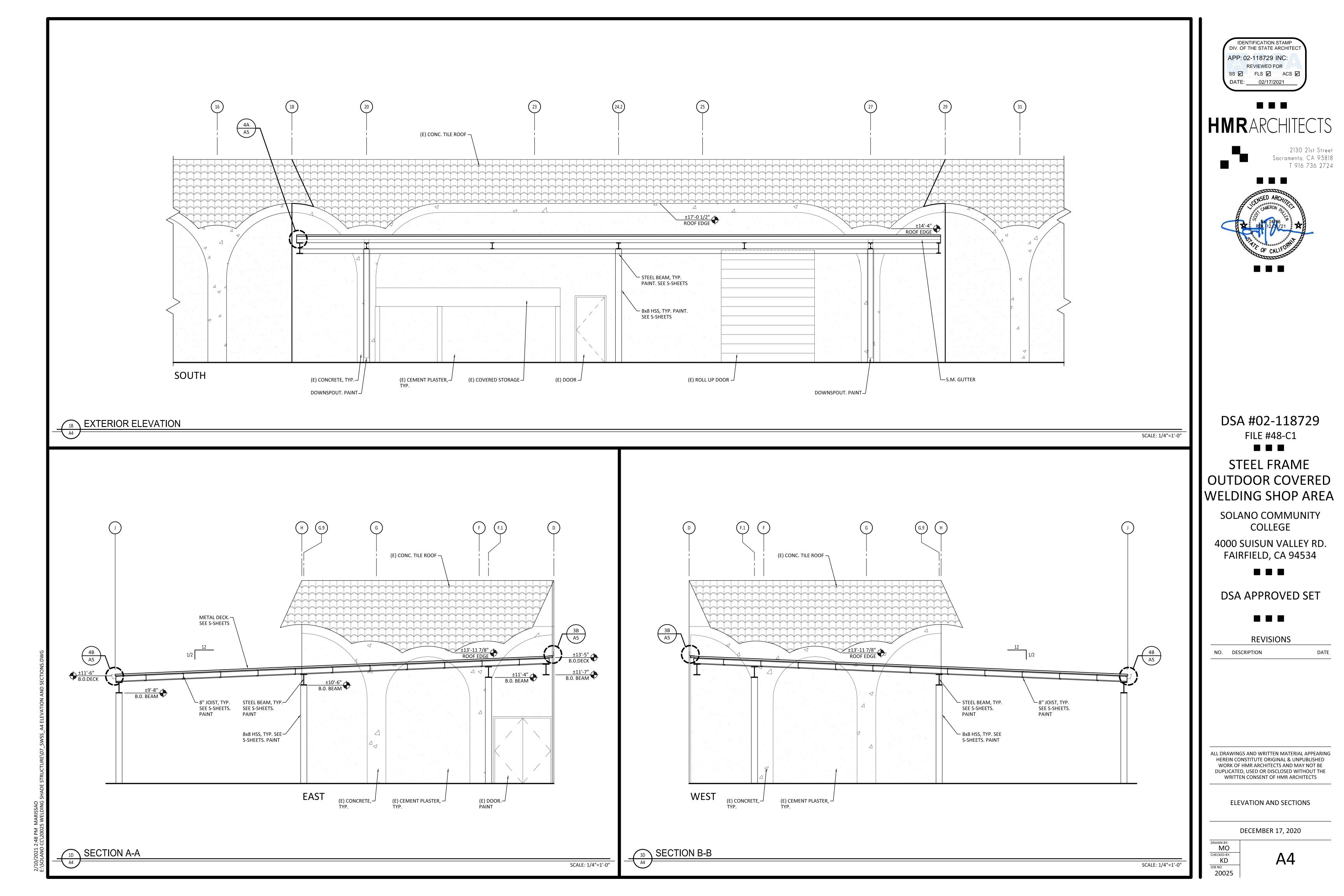
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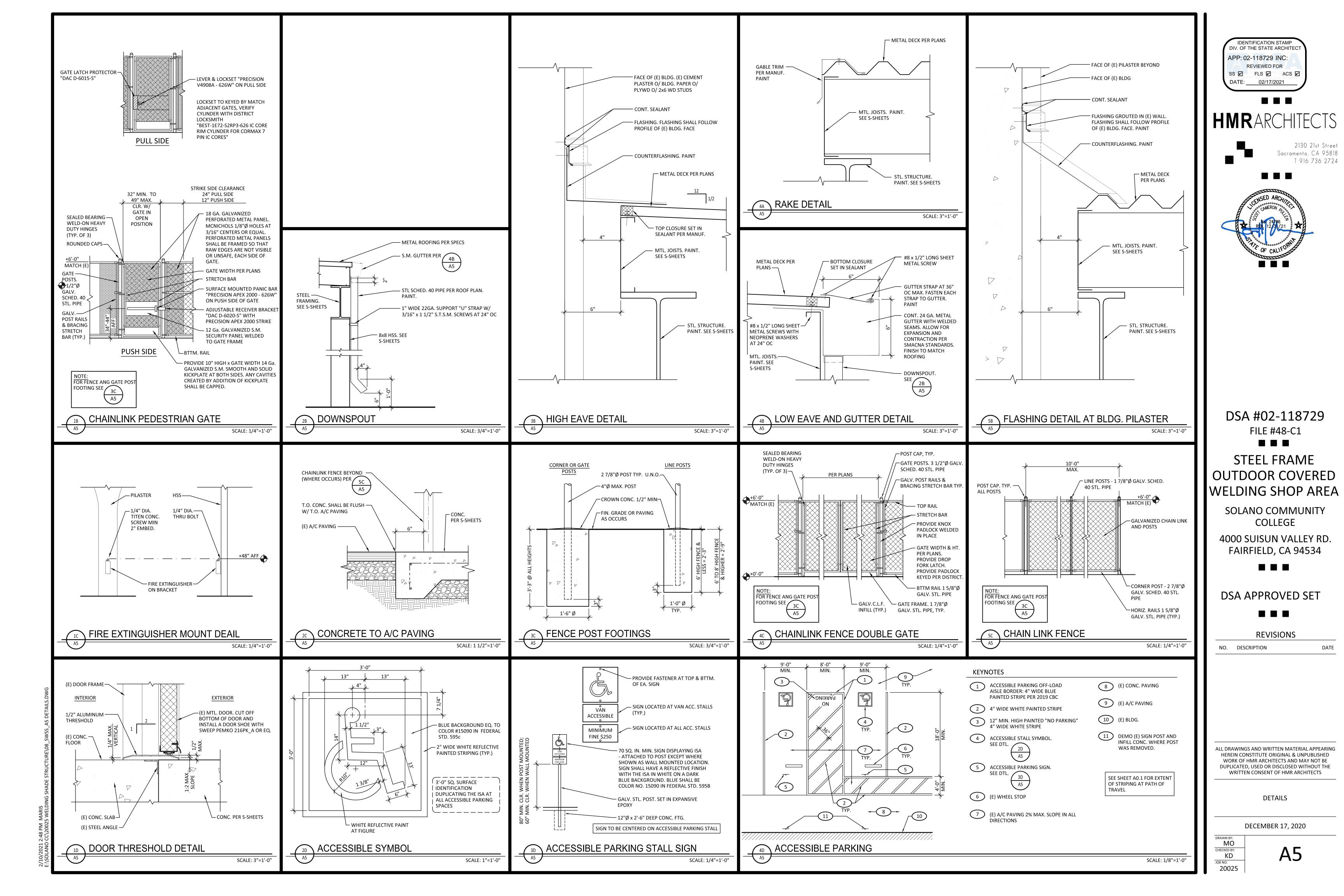


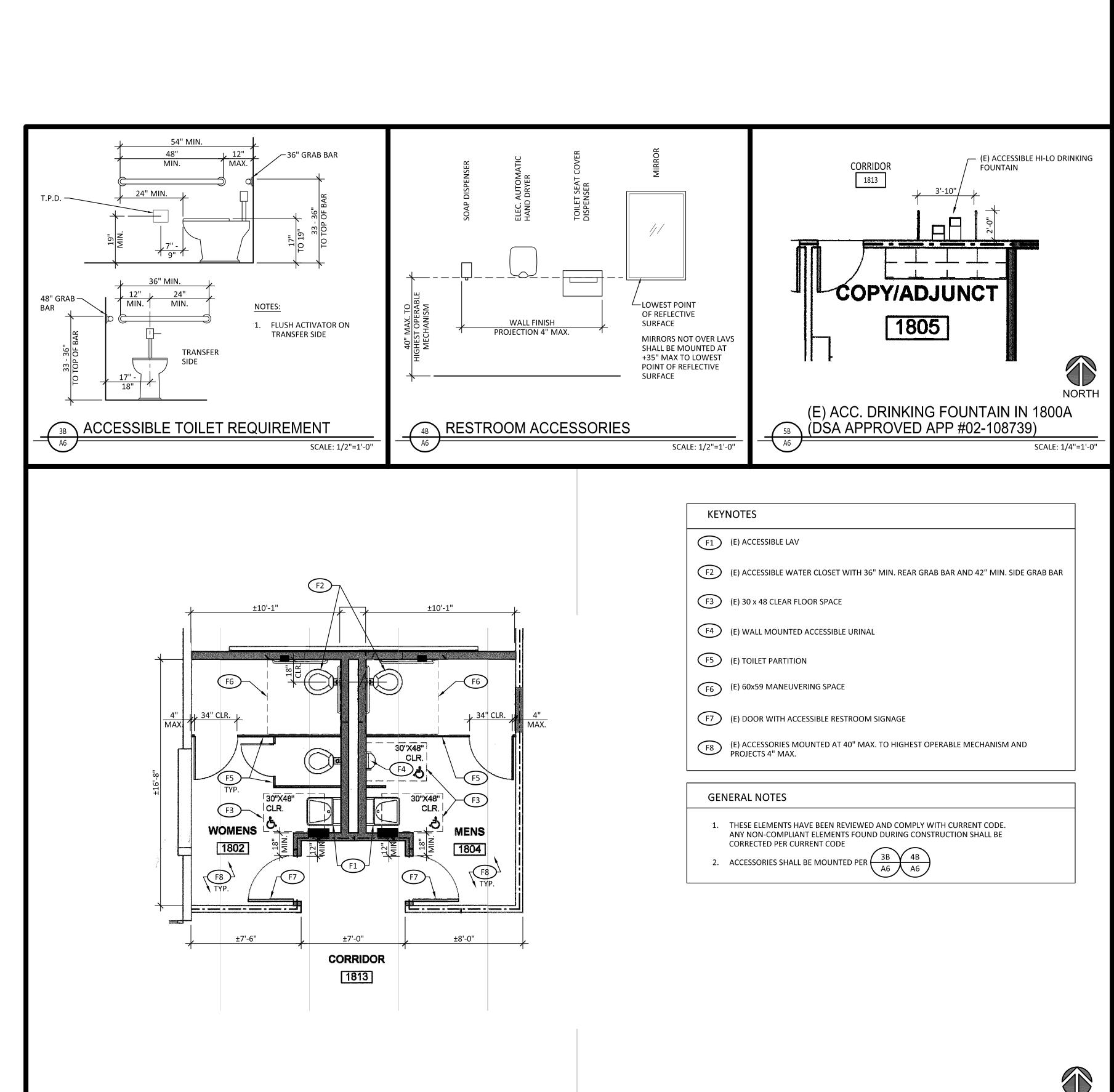
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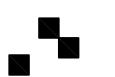


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REVIEWED FOR

SS FLS ACS DATE: 02/17/2021

HMRARCHITECT



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ACCESSIBILITY SHEET

DECEMBER 17, 2020

DRAWN BY:
MO
CHECKED BY:
KD
JOB NO.
20025

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

A6

GENERAL

I. THE WORDS "THE ENGINEER" AS USED IN THESE NOTES, REFER TO A REPRESENTATIVE OF ATM ENGINEERING.

2. THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH ALL EXISTING SITE CONDITIONS AND WITH ALL DESIGN DOCUMENTS PROVIDED BY THE VARIOUS DESIGN PROFESSIONALS INVOLVED IN THIS PROJECT.

- 3. VERIFY ALL DIMENSIONS, DETAILS AND SPATIAL RELATIONSHIPS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.
- 4. ALL WORK SHALL COMPLY WITH THE CURRENTLY ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE AND ALL OTHER STATE AND LOCAL CODES AND ORDINANCES.
- 5. ANY TESTING OR INSPECTIONS REQUIRED BY BUILDING OFFICIALS OR THE PROJECT DRAWINGS OR SPECIFICATIONS SHALL BE PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY.

6. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.

- 7. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH O.S.H.A. STANDARDS.
- 8. ALL A.S.T.M. SPECIFICATIONS NOTED ON THE DRAWINGS SHALL BE AS AMENDED TO DATE.
- 9. UNLESS CALLED OUT AS EXISTING OR NOT-IN-CONTRACT, EVERYTHING SHOWN ON THESE DRAWINGS SHALL BE PROVIDED AND INSTALLED AS PART OF THE WORK OF THE PROJECT.
- IO. DETAILS AND NOTES ON THESE PLANS ARE TYPICAL. SIMILAR DETAILS AND NOTES APPLY TO SIMILAR CONDITIONS.
- II. THESE DRAWINGS ARE NOT FINAL UNTIL FINAL APPROVAL FROM ALL GOVERNING AGENCIES IS RECEIVED AND A PERMIT HAS BEEN ISSUED. ALL QUANTITY, GRADES AND SIZES OF STRUCTURAL COMPONENTS MAY CHANGE. BIDS/PRICING PERFORMED ON PLANS NOT YET APPROVED AND PERMITTED MAY CHANGE AND SHOULD NOT BE RELIED UPON FOR BUDGETS OR FINAL COSTS.

CONCRETE

- I. CONCRETE SHALL BE REGULAR WEIGHT WITH HARDROCK AGGREGATES, UNLESS NOTED OTHERWISE
- 2. PORTLAND CEMENT SHALL CONFORM TO A.S.T.M. C-150 TYPE I OR II.
- 3. AGGREGATES SHALL CONFORM TO A.S.T.M. C-33 WITH PROVEN SHRINKAGE CHARACTERISTIC OF LESS THAN -.04%.
- 4. CONCRETE SHALL BE READY-MIXED PER A.S.T.M. C-94.
- 5. CONCRETE TO HAVE 3%-4% AIR ENTRAINMENT.

6. ALL CONCRETE TO HAVE WATER REDUCER, POLYHEED 1200 OR EQUAL.

7. WATER SHALL BE CLEAN AND FREE FROM INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALIS, SALTS, ORGANIC MATERIALS OR OTHER SUBSTANCES DELETERIOUS TO CONCRETE OR REINFORCEMENT.

8. CONCRETE CLASS AND STRENGTHS SHALL CONFORM TO THE FOLLOWING:

CONCRETE CLASS

SLAB ON GRADE/ FOOTINGS

MAXIMUM AGGREGATE SIZE MINIMUM SACKS PER YARD MAXIMUM WATER/CEMENT RATIO

0.45 3" ± 1/2" 28 DAY COMPRESSIVE STRENGTH 4000 PSI

- 9. CONTRACTOR IS RESPONSIBLE FOR OBTAINING CONCRETE MIX DESIGNS WHICH CONFORM TO CLASS AND STRENGTH REQUIREMENTS. SUBMIT ONE COPY OF MIX DESIGNS TO ENGINEER FOR HIS
- IO. ONLY ONE CLASS AND STRENGTH OF CONCRETE SHALL BE POURED ON THE JOB AT ONE TIME.
- II. CONCRETE SHALL BE TESTED IN CONFORMANCE WITH C.B.C. SECTION 1905.6
- 12. SUBMIT ONE COPY OF RESULTS OF CONCRETE TESTING TO ENGINEER FOR HIS RECORDS.
- 13. CONTRACTOR SHALL OBTAIN THE ENGINEERS' APPROVAL FOR ANY CONSTRUCTION JOINT LOCATED IN AN ELEVATED SLAB.
- 14. ALL REINFORCING STEEL, ANCHOR BOLTS AND SLEEVES SHALL BE PLACED AND SECURED IN POSITION PRIOR TO POURING CONCRETE.
- 15. ALL OPENINGS FOR ELECTRICAL AND MECHANICAL ELEMENTS SHALL BE FORMED WITH SLEEVES PRIOR TO POURING CONCRETE. CORING SHALL NOT BE ALLOWED WITHOUT THE ENGINEERS' APPROVAL.
- 16. MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

| SLAB-ON-GRADE | CENTER |
|---|------------|
| CAST AGAINST EARTH | <i>3</i> " |
| FORMED CONCRETE EXPOSED TO EARTH OR WEATHER | 2" |
| FORMED CONCRETE NOT EXPOSED TO EARTH OR WEATHER | 1" |
| BEAMS AND COLUMNS PRIMARY REINFORCING | 2" |
| BEAMS AND COLUMNS STIRRUPS AND TIES | . 1-1/2" |

- IT. SLAB SHALL BE SAW-CUT PER FOUNDATION PLAN AS SOON AS EQUIPMENT CAN BE OPERATED WITHOUT DAMAGING THE SLAB.
- 18. CURE ALL EXPOSED CONCRETE SURFACES WITH LIQUID MEMBRANE-FORMING CURING COMPOUND CONFORMING TO A.S.T.M. C 309, TYPE I, CLASS A OR OTHER APPROVED CURING METHOD IMMEDIATELY AFTER PLACING CONCRETE. WHERE PLACEMENT OCCURS IN TEMPERATURES OVER 90° OR IN WINDY CONDITIONS, CONTRACTOR SHALL TAKE ADDITIONAL MEASURES TO INSURE PROPER CONCRETE CURING. IF CONTROL JOINT SAW-CUTTING TAKES PLACE AFTER APPLICATION OF CURING COMPOUND, REAPPLY CURING COMPOUND TO SAWCUTS.
- 19. WHEN COLD WEATHER CONDITIONS EXIST, PLACE CONCRETE IN COMPLIANCE WITH C.B.C. 1905.12.
- 20. WHEN HOT WEATHER CONDITIONS EXIST, PLACE CONCRETE IN COMPLIANCE WITH C.B.C. 1905.13. REINFORCING SHALL BE KEPT COOL DURING PLACEMENT OF CONCRETE.
- 21. THESE DRAWINGS DEPICT REASONABLE METHODS TO MITIGATE CONCRETE CRACKING AND/OR CURL. HOWEVER WHEN CRACKING OR CURL DOES OCCUR, CONTRACTOR IS RESPONSIBLE TO FILL, GRIND AND REPAIR AS NEEDED FOR REASONABLE AESTHETICS AND BUILDING SERVICEABILITY, INCLUDING WATERPROOFING.
- 22. PROVIDE 2 #5 x 4'-0" LONG DIAGONAL REINFORCING AT MID-DEPTH OF SLAB AT ALL REENTRANT CORNERS, TYPICAL.

PROPRIETARY STRUCTURAL COMPONENTS

I. WHERE ELEMENTS OF CONSTRUCTION ARE CALLED OUT BY BRAND NAME IN THESE DRAWINGS, THE DESIGN IS BASED UPON STRUCTURAL VALUES PROVIDED BY THE MANUFACTURER. EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS MAY BE SUBMITTED TO THE ENGINEER FOR SUBSTITUTION APPROVAL. SUBMITTALS MUST CONTAIN I.C.C. REPORT OR OTHER PROOF OF EQUIVALENT STRUCTURAL VALUES.

- 2. SHEET METAL HANGERS, STRAPS, HOLD-DOWNS, ANCHORS, ETC. CALLED OUT AS "SIMPSON" REFER TO PRODUCTS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. ALL SUCH PRODUCTS SHALL BE INSTALLED WITH THE MAXIMUM NUMBER OF FASTENERS CALLED IN THE CURRENT SIMPSON CATALOG UNLESS CALLED OUT DIFFERENTLY IN THESE DRAWINGS.
- 3. UNLESS CALLED OUT OTHERWISE ON DRAWINGS, SHEET METAL SCREWS (SMS) SHALL BE GRABBER SCREWS, I.C.C. #ESR-1271.

STRUCTURAL STEEL

I. ALL STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A36 UNLESS NOTED OTHERWISE.

- 2. STRUCTURAL STEEL W SECTIONS, SHALL CONFORM TO A.S.T.M. A992 GRADE 50.
- 3. STEEL PIPE COLUMNS SHALL CONFORM TO A.S.T.M. A501, Fy=36 KSI OR A.S.T.M. A53, TYPES E OR S, GRADE B, Fy=35 KSI.
- 4. STRUCTURAL TUBE STEEL COLUMNS SHALL CONFORM TO A.S.T.M. A500, GRADE B, Fy=46 KSI.
- 5. BOLTS SHALL CONFORM TO A.S.T.M. A307 UNLESS NOTED OTHERWISE.
- 6. DIAMETER OF BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER THAN THE BOLT SIZE UNLESS NOTED OTHERWISE.
- 7. ALL WELDS SHALL BE IN CONFORMITY WITH THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY (A.W.S.). ALL STRUCTURAL WELDING SHALL USE THE SHIELDED METAL ARC WELDING PROCESS WITH ETOXX ELECTRODES. USE LOW HYDROGEN ELECTRODES FOR BOLTS AND REINFORCING
- 8. SHOP WELDING TO BE DONE IN AN APPROVED FABRICATORS SHOP PER C.B.C. SECTION 1704.3.1
- 9. ANCHOR BOLTS SHALL CONFORM TO EITHER A.S.T.M. A307 OR A36 UNLESS NOTED OTHERWISE, AND SHALL BE HEADED BOLTS OR THREADED RODS WITH DOUBLE NUTS.
- IO. PROTECT ALL STEEL COLUMNS, BASE PLATES, ANCHOR BOLTS, EMBEDMENT PLATES, WELD PLATES, ETC. BELOW TOP OF FLOOR SLAB WITH A MINIMUM OF 3" OF CONCRETE COVER.
- II. FABRICATION AND ERECTION SHALL COMPLY WITH A.I.S.C. SPECIFICATIONS FOR BUILDINGS, AS REVISED TO DATE.
- 12. SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION.

13. STEEL FRAMING DIMENSIONS ARE TO THE CENTERLINES OF COLUMNS AND W SHAPES AND TO THE SMOOTH FACE OF CHANNELS.

14. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE ANY CONFLICTS BEFORE PROCEEDING.

15. STEEL BEAMS SHALL BE PLACED WITH MILL CAMBER UPWARD.

16. EXPOSED STEEL SHALL BE GALVANIZED STAINLESS STEEL, PAINTED OR OTHERWISE PROTECTED AGAINST CORROSION.

LIGHT GAUGE STEEL FRAMING

I. STEEL STUDS AND OTHER LIGHT GAUGE FRAMING SHALL BE AS MANUFACTURED BY A MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (S.S.M.A.) OR EQUAL. FRAMING MEMBER DESIGNATIONS SHOWN ON THESE DRAWINGS ARE FROM THE S.S.M.A. CATALOG, I.C.C. REPORT NUMBER ER-4943P.

TYPICAL "S.S.M.A." DESIGNATION: 600S125-33:

SIZE: 6"; SHAPE: STRUCTURAL; FLANGE: 1.25"; THICKNESS: 33 MILS

| | | | | • | | • | | |
|-------|---------|-----|-----|----|----|----|----|-----------------------|
| GAUGE | DRYWALL | | | | | | | |
| GAUGE | 22 | 20' | 20² | 18 | 16 | 14 | 12 | ² STRUCTUR |
| MILS | 27 | 30 | 33 | 43 | 54 | 68 | 97 | |

- 2. ALL LIGHT GAUGE FRAMING SHALL CONFORM TO I.C.C. REPORT AND MANUFACTURER'S RECOMMENDATIONS, AND SHALL HAVE A YIELD STRESS OF 50 KSI (MINIMUM). ALL LIGHT GAUGE FRAMING SHALL HAVE A MINIMUM "G60" METALLIC COATING PER MANUFACTURER.
- 3. ALL WALLS SHALL HAVE GYPSUM BOARD ON BOTH SIDES UNLESS SHOWN OTHERWISE ON THE DRAWINGS. WHERE GYPSUM BOARD IS TO BE OMITTED, PROVIDE BLOCKING AND STRAPPING PER MANUFACTURER'S RECOMMENDATIONS
- 4. SILL TRACKS SHALL BE THE SAME GAUGE AND DEPTH AS THE STUDS.
- 5. TOP TRACKS SHALL BE DEEP LEG TRACKS (MINIMUM I-I/2" FLANGES), SAME GAUGE AND WIDTH AS THE STUDS, UNLESS DETAILED OTHERWISE.
- 6. ALL CONNECTIONS SHALL HAVE AT LEAST 2-#8 SHEET METAL SCREWS, UNLESS NOTED OTHERWISE. ALL SCREWS AT CONNECTIONS SHALL BE SPACED 3/4" O.C. MINIMUM AND SHALL BE 3/4" MINIMUM FROM ANY
- 7. ATTACH SILL TRACK TO FLOOR SLAB WITH MINIMUM 0.145" DIAMETER SHOT PINS AT 16" O.C. AND WITHIN 9" OF EACH END U.N.O. ON DRAWINGS. PROVIDE MINIMUM 2 SHOT PINS PER TRACK.
- 8. ROOF DECKING SHALL BE AEP "MINI-V-BEAM" METAL DECK, MIN 20 GA THICKNESS AND GRADE 50 KSI WITH MINIMUM PROPERTIES: $I_x = 0.1463 \text{ IN}^4/\text{FT}$ $S_{x} = 0.2000 \, \text{IN}^{3}/\text{FT}$
- 9. ROOF DECKING SHALL BE A MINIMUM "G90" METALLIC COATING & "COOL DURA TECH 5000" OR "DURA TECH MX" PAINTING SYSTEM PER MANUFACTURER.

DESIGN CRITERIA 2019 CALIFORNIA BUILDING CODE

LL = 20 PSF (REDUCIBLE) LL = 300 LB POINT LOAD ANYWHERE ALONG BASIC WIND SPEED = 100 MPH, EXPOSURE C

DL = 9 PSF

(3 SECOND GUST) RISK CATEGORY = III

SEISMIC IMPORTANCE FACTOR = 1.25 Ss = 1.506SI = 0.6 SDS = 1.205 SDI = 0.680

DESIGN CRITERIA (CONT'D) EQUIVALENT LATERAL FORCE PROCEDURE BASE SHEAR = V = CsW SEISMIC DESIGN CATEGORY D STEEL SPECIAL CANTILEVER COLUMN STRUCTURE: R = 2.5, $\Omega_0 = 1.25$, Cd = 2.5, CS = 0.602W

ALLOWABLE SOIL BEARING PRESSURE 1,500 PSF (DEAD PLUS LIVE LOADS) 2,000 PSF (DEAD PLUS LIVE PLUS SEISMIC LOADS)

REINFORCING STEEL

- I. ALL REINFORCING STEEL SHALL BE AS FOLLOWS:
- a. NO. 3 BARS AND SMALLER... A.S.T.M. A615. GRADE 60 A.S.T.M. A615, GRADE 60 b. NO. 4 BARS AND LARGER.
- c. REINFORCING STEEL TO BE WELDED A.S.T.M. A706, GRADE 60 d. WELDED WIRE FABRIC ... A.S.T.M. A185
- 2. ALL BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS LIKELY TO
- 3. ALL BENDS SHALL BE MADE COLD.

IMPAIR BOND.

- 4. SPLICING OF BARS SHALL HAVE MINIMUM LAP PER DETAIL C/SI.I IN ALL CASES UNLESS DIMENSIONED OTHERWISE ON DETAILS.
- 5. ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING GROUT.
- 6. MINIMUM LAP FOR WELDED WIRE FABRIC SHALL BE ONE AND A HALF FULL MESH.
- 7. WELDING OF REINFORCING STEEL SHALL BE IN COMPLIANCE WITH A.W.S. DI.4-79.
- 8. SPACING OF BARS SHALL BE CONSIDERED AS MAXIMUM SPACING.

SPECIAL INSPECTION

PROVIDE SPECIAL INSPECTION AND TESTING OF THE FOLLOWING IN ACCORDANCE WITH THE NOTED CRITERIA. COPIES OF INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT.

- I. PERIODICALLY VERIFY USE OF REQUIRED DESIGN MIX OF CAST-IN-PLACE CONCRETE PER TABLE 1705A.3 ITEM 5, 1910A.1.
- 2. IDENTIFY, SAMPLE, AND TEST REINFORCING STEEL PER 1910A.2; ACI 318-14 SECTION 26.6.1.2; DSA IR 17-10. SEE BELOW FOR EXEMPTIONS.
- 3. DURING CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE PER TABLE 1705A.3 ITEM 6; ACI 318-14 SECTIONS 26.5 \$ 26.12.
- 4. TEST CONCRETE STRENGTH PER 1905A.I.15; ACI 318-14 SECTION 26.12.
- 5. PERIODICALLY VERIFY IDENTIFICATION OF ALL MATERIALS (MILL CERTIFICATES INDICATE MATERIAL PROPERTIES THAT COMPLY WITH REQUIREMENTS; MATERIAL SIZES, TYPES AND GRADES COMPLY WITH REQUIREMENTS. TABLE 1705A.2.1 ITEM 3A-3C.
- 6. PERIODICALLY TEST UNIDENTIFIED MATERIALS 2202A.I
- 7. PERIODICALLY VERIFY AND DOCUMENT STEEL FABRICATION PER DSA-APPROVED CONSTRUCTION DOCUMENTS.
- 8. PERIODICALLY VERIFY IDENTIFICATION MARKINGS AND MANUFACTURER'S CERTIFICATES OF COMPLIANCE CONFORM TO ASTM STANDARDS SPECIFIED IN THE DSA-APPROVED DOCUMENTS. TABLE 1705A.2.1 ITEMS IA & IB, 2202A.1.
- 9. TEST HIGH-STRENGTH BOLTS, NUTS AND WASHERS. TABLE 1705A.2.I ITEM IC, 22I3A.I; RCSC 2014 SECTION 7.2; DSA IR 17-8.
- IO. PERIODICALLY VERIFY BEARING-TYPE ("SNUG TIGHT") CONNECTIONS. TABLE 1705A.2.I ITEM 2A, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 \$ N5.6; RCSC 2014 SECTION 9.1; DSA IR 17-9.
- II. PERIODICALLY VERIFY WELD FILLER MATERIAL IDENTIFICATION MARKINGS PER AWS DESIGNATION LISTED ON THE DSA-APPROVED DOCUMENTS AND THE WPS. DSA IR 17-3.
- 12. PERIODICALLY VERIFY WELD FILLER MATERIAL MANUFACTURER'S CERTIFICATE OF COMPLIANCE. DSA IR 17-3.
- 13. PERIODICALLY VERIFY WPS, WELDER QUALIFICATIONS AND EQUIPMENT. DSA IR 17-3.
- 14. CONTINUOUSLY INSPECT SHOP & FIELD GROOVE WELDS, MULTI-PASS FILLET WELDS, SINGLE PASS FILLET WELDS > 5/16", PLUG AND SLOT WELDS. TABLE 1705A.2.1 ITEMS 5A.1-4; AISC 360-16 AND AISC 341-16 AS APPLICABLE): DSA IR 17-3.
- 15. PERIODICALLY INSPECT SHOP & FIELD SINGLE-PASS FILLET WELDS ≤ 5/6", FLOOR AND ROOF DECK WELDS. 1705A.2.2, TABLE 1705A.2.1 ITEMS 5A.5 \$ 5A.6; AISC 360-16 (AND AISC 341-16 AS APPLICABLE); DSA IR 17-3.
- 16. ANCHOR BOLTS AND ANCHOR RODS; SAMPLE AND TEST ANCHOR BOLTS AND ANCHOR RODS NOT READILY IDENTIFIABLE PER PROCEDURES NOTED IN DSA IR 17-11.
- THE FOLLOWING ARE EXEMPT FROM SPECIAL INSPECTION:
- I. POST-INSTALLED ANCHORS FOR ANY SUPPORT FOR EXEMPT NON-STRUCTURAL COMPONENTS GIVEN IN CBC SECTION 1617A.1.18 (WHICH REPLACES ASCE 7-16, SECTION 13.1.4) MEETING THE FOLLOWING: A) WHEN SUPPORTED ON A FLOOR/ROOF, < 400# AND RESULTING COMPOSITE CENTER OF MASS (INCLUDING COMPONENT'S CENTER OF MASS) < 4'-O" ABOVE SUPPORTING FLOOR/ROOF, B) WHEN HUNG FROM A WALL OR ROOF/FLOOR, < 20# FOR DISCRETE UNITS OR < 5 PLF FOR DISTRIBUTED SYSTEMS.
- 2. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED FOR ITEMS GIVEN IN CBC SECTION 1705A.3.3.2 SUBJECT TO THE REQUIREMENTS AND LIMITATIONS IN THAT SECTION.
- 3. EPOXY DOWELS IN SITE FLATWORK, SLAB ON GRADE AND/OR OTHER NON-STRUCTURAL CONCRETE.
- 4. TESTING OF REINFORCING BARS FOR SITE FLATWORK, SLAB ON GRADE AND NON-STRUCTURAL CONCRETE PER CBC SECTION 1910A.2 PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED TO THE INSPECTOR OF RECORD FOR EACH SHIPMENT OF SUCH REINFORCEMENT.

ISSUE / REVISION INDEX DELTA **ATM** Engineering SHEET SHEET TITLE TYPICAL NOTES & DETAILS SI.I TYPICAL DETAILS *SI.2* CANOPY FOUNDATION PLAN *52.1* CANOPY ROOF FRAMING PLAN *52.2* MISCELLANEOUS DETAILS *53.1*

ABBREVIATIONS

| A/E A.C. ADD'L. | ARCHITECT/ENGINEER AIR CONDITIONING ADDITIONAL ALTERNATE ARCHITECTURAL BEAM BLOCK BOTTOM | P.L. P.W. P.D.F. | PLATE (WOOD) PLYWOOD POWDER DRIVEN FASTENER |
|-------------------------|--|---------------------------|---|
| ARCH'L BM | ARCHITECTURAL BEAM | RAD. REQ'D. | RADIUS REQUIRED REINEORGING |
| BOT B.N. | BEAM BLOCK BOTTOM BOUNDARY NAILING BUILDING CLEAR CENTERLINE COLUMN CONCRETE MASONRY UNIT | R.D. | ROUND/DIAMETER |
| BLD'G. CL'R. Q | BUILDING CLEAR CENTERLINE | STIFF. SECT. S.A.D. | SECTION |
| COL. C.M.U. CONC. | COLUMN CONCRETE MASONRY UNIT CONCRETE | S.D.S.T. SIM. SQ. | SEE ARCHITECTURAL DRAWING SELF DRILLING, SELF TAPPING SIMILAR SQUARE |
| CON'T. D.O. | CONCRETE MASONRY UNIT CONCRETE CONTINUOUS DO OVER DIMENSION DIAMETER DRAWING EACH EDGE NAIL EXISTING EXPANSION EACH WAY EACH FACE FACE OF CONCRETE FACE OF MASONRY | ST'L. STRUCT. | STEEL STRUCTURAL SPECIFICATIONS |
| D./DIA./Φ DWG. | DIAMETER DRAWING | SH'T. S.P. | SHEET STRUCTURAL PLYWOOD |
| E.N. EXIST./(E) | EACH EDGE NAIL EXISTING | 51 M. T.O.C. T.O.M. | SYMMETRICAL TOP OF CONCRETE TOP OF MASONRY |
| EXP. E.W. E.F. | EXPANSION EACH WAY EACH FACE | TYP. T.O.S. T.N. | TYPICAL TOP OF SHEATHING TOE NAIL |
| F.O.C. F.O.M. | FACE OF CONCRETE FACE OF MASONRY FACE OF STUDS | TOT. U.N.O. VERT | TOTAL UNLESS NOTED OTHERWISE VERTICAL |
| F.N. F.F. | FIELD NAILING FINISH FACE | W.W.F. | WITH WELDED WIRE FABRIC |
| FTG. FDN. | FACE OF MASONRY FACE OF STUDS FIELD NAILING FINISH FACE FLOOR FOOTING FOUNDATION GAUGE GALVANIZE HIGH STRENGTH | u.B.C. MECH. MIN. | UNIFORM BUILDING CODE MECHANICAL MINIMUM |
| GA. GALV. H.S. | GAUGE GALVANIZE HIGH STRENGTH | MISC. (N) N.T.S. | MISCELLANEOUS NEW NOT TO SCALE |
| H.S.S. HORIZ. | HOLLOW STRUCTURAL SHAPE HORIZONTAL LONG LEG VERTICAL | NO./# O.C. | NUMBER ON CENTER |
| MAX. | MAXIMUM | D.n. 尼 | PLATE (STEEL) |

SYMBOLS LEGEND

A - INDICATES DETAIL NUMBER ON SHEET - INDICATES SHEET WHERE DETAIL IS LOCATED

INDICATES CONTINUOUS WOOD MEMBER ☐ INDICATES WOOD BLOCKING

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-118729 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 02/17/2021

HMR ARCHITECTS







STEEL FRAME **OUTDOOR COVERED** WELDING SHOP AREA

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

DSA APPROVED SET

REVISIONS NO. DESCRIPTION

TYPICAL NOTES & SCHEDULES

02/02/21 AS SHOWN DRAWN BY:

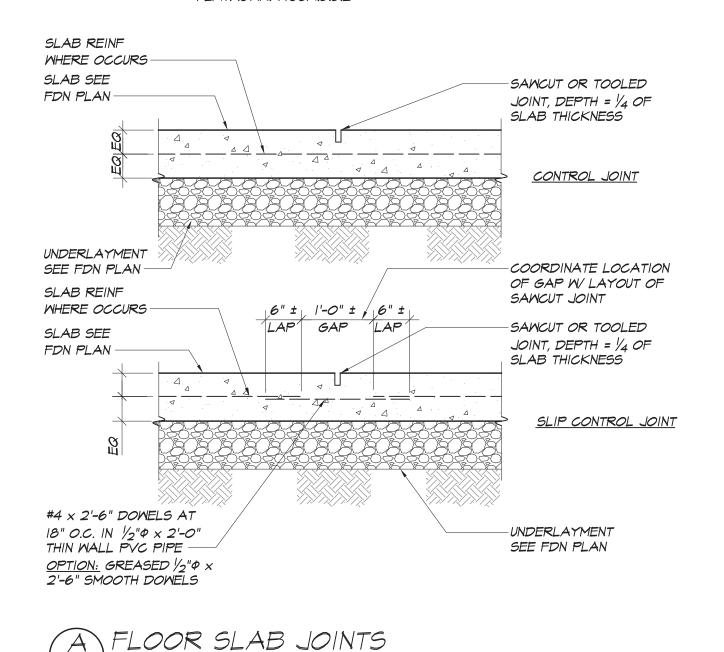
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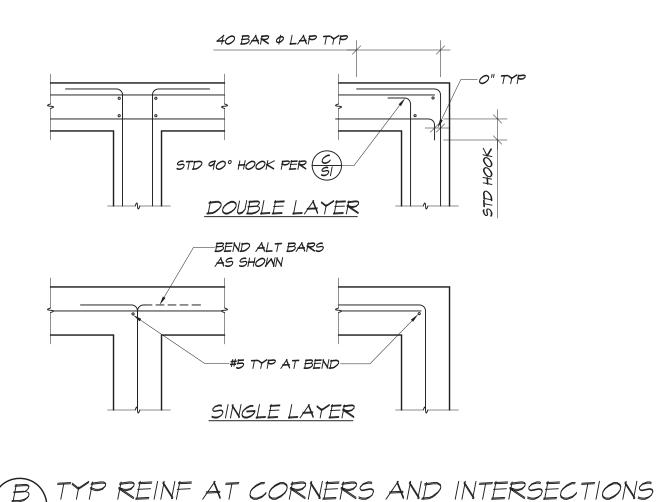
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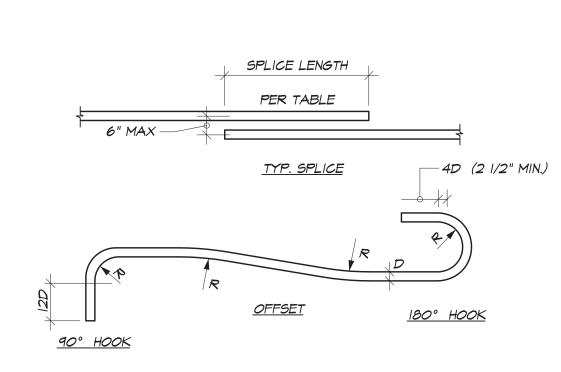
CHECKED BY: JAG JOB NO. ATM# 20237

I. BATCH PLANT INSPECTION NOT REQUIRED FOR SITE FLATWORK. 1705A.3.3.2



NOT TO SCALE





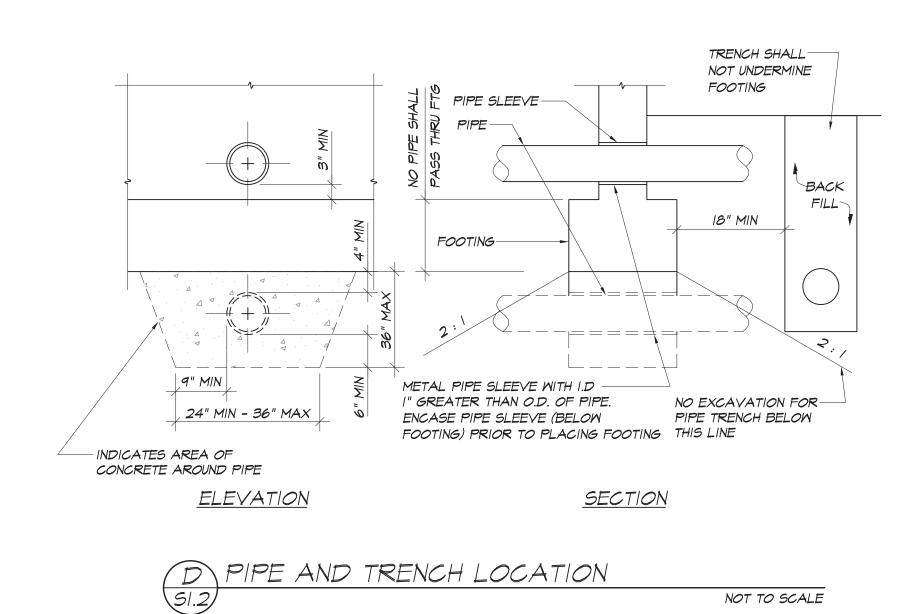
| | SPLICE L | ENGTH | (INCHE | 5) | | | |
|---|--------------|--------|--------|------------|------------|--------|-------|
| | f'c (PSI) | 2,500 | 3,000 | 3,500 | 4,000 | 4,500 | 5,000 |
| | #3 | 26 | 23 | 22 | 20 | 18 | 17 |
| | #4 | 32 | 29 | <i>2</i> 7 | 26 | 25 | 23 |
| | #5 | 41 | 37 | 35 | 32 | 30 | 28 |
| | #6 | 48 | 43 | 41 | 38 | 36 | 34 |
| | #7 | 70 | 63 | 59 | <i>5</i> 5 | 52 | 49 |
| | #8 | 79 | 72 | 68 | 63 | 60 | 56 |
| | #9 | 89 | 81 | 76 | 71 | 67 | 63 |
| | #10 | 100 | 91 | 86 | 80 | 75 | 71 |
| ĺ | I. TABLE | INDICA | TES CL | .ASS B | LAPS | PLICES | FOR |

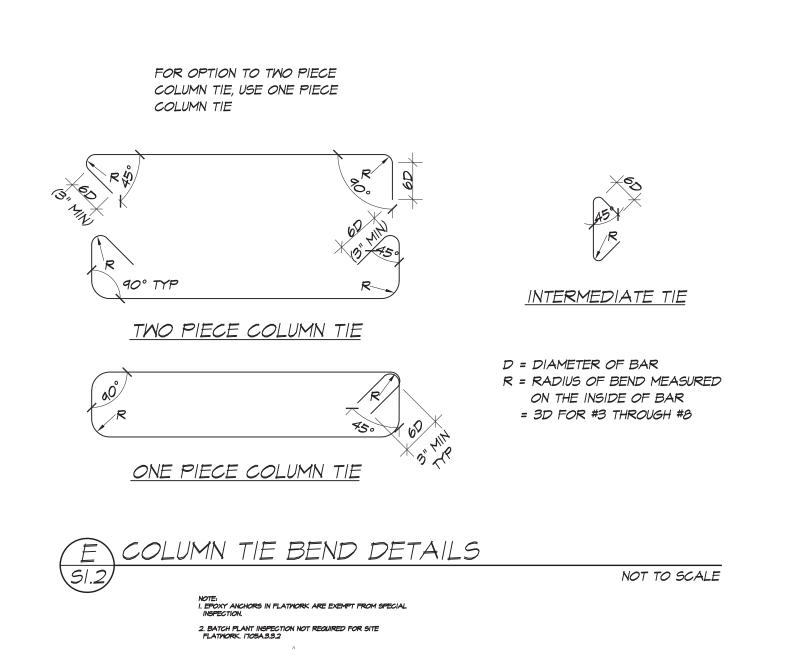
I. IADLE INVICATES CLASS B LAP SPLICES FOR GR.60 REBAR 2. MULTIPLY VALUES ABOVE BY 1.3 FOR LIGHTWEIGHT CONCRETE. 3. MULTIPLY VALUES ABOVE BY 1.3 WHERE MORE THAN 12" OF CONCRETE BELOW. 4. DIVIDE VALUES ABOVE BY 1.3 FOR STRAIGHT BAR DEVELOPMENT LENGTHS.

R = RADIUS OF BEND MEASURED ON THE INSIDE OF BAR = 2 1/2 D FOR #2 ONLY = 3D FOR #3 THROUGH #8 = 4D FOR #9 THROUGH #11

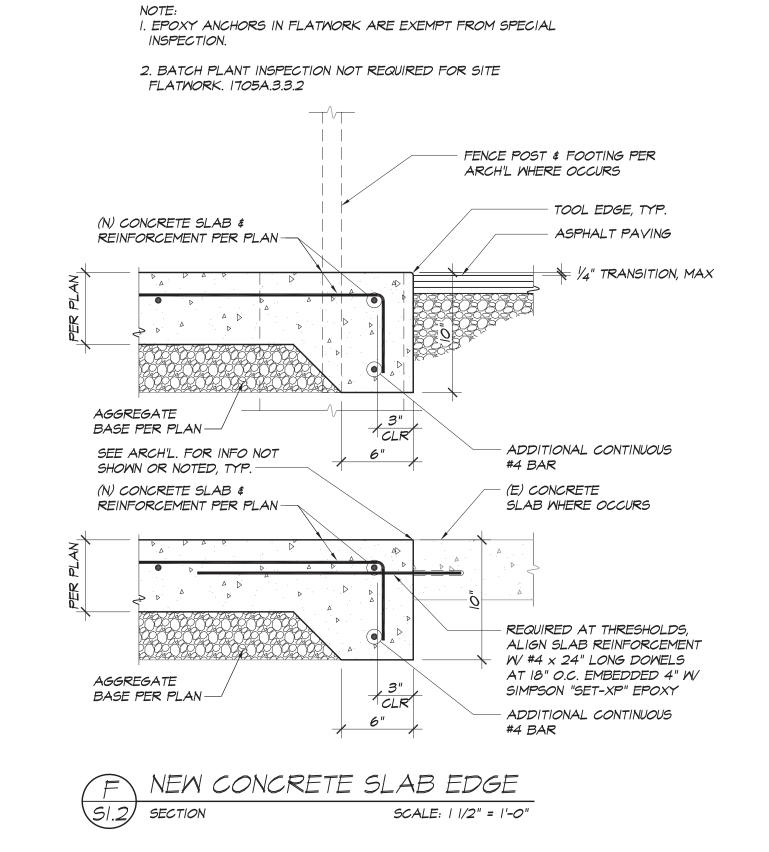
D = DIAMETER OF BAR

REINFORCEMENT BEND & SPLICE DETAILS SI.2 SECTION SCALE: 3/4" = 1'-0"





NOT TO SCALE





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STEEL FRAME OUTDOOR COVERED

SOLANO COMMUNITY COLLEGE

WELDING SHOP AREA

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

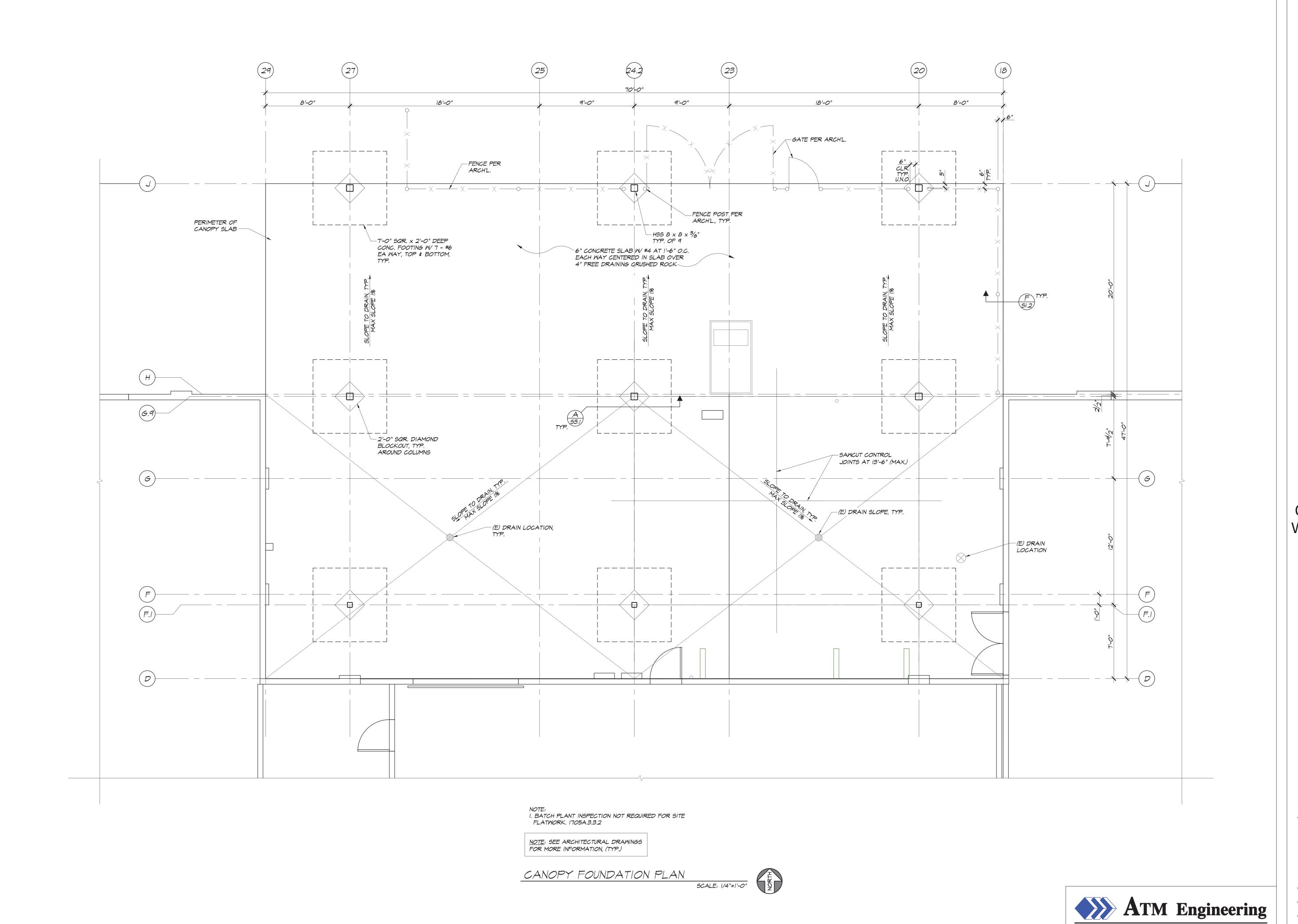
DSA APPROVED SET

REVISIONS NO. DESCRIPTION

TYPICAL DETAILS

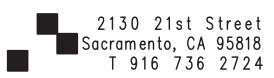
02/02/21 SCALE: AS SHOWN DRAWN BY: CHECKED BY:

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STEEL FRAME OUTDOOR COVERED WELDING SHOP AREA

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

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REVISIONS

NO. DESCRIPTION

CANOPY FOUNDATION PLAN

DATE:

02/02/21

SCALE:

AS SHOWN

DRAWN BY:

RGL

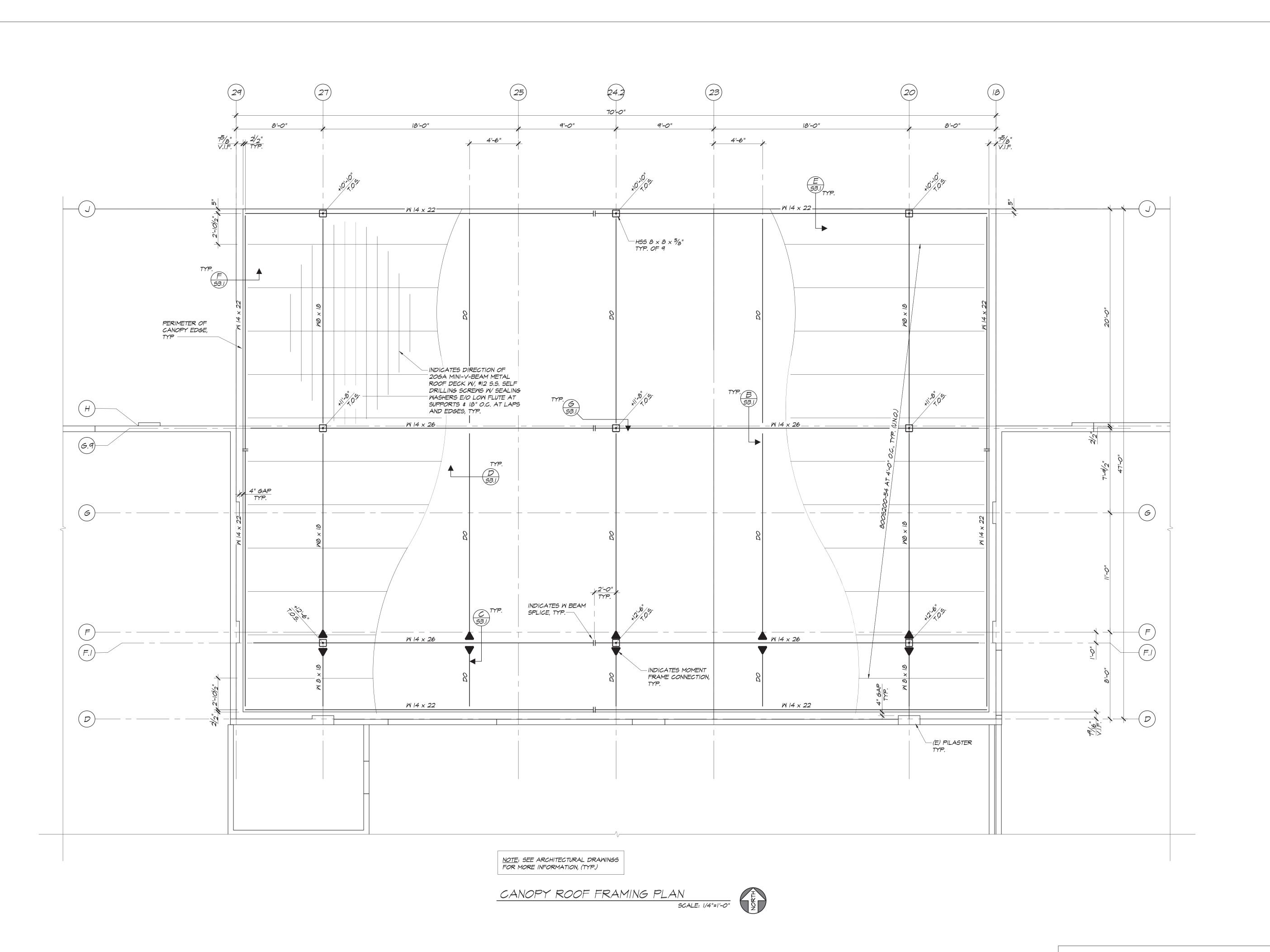
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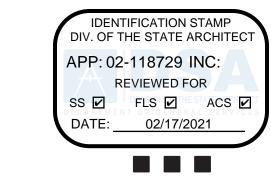
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REVISIONS

NO. DESCRIPTION

HEET TITLE:

CANOPY ROOF FRAMING PLAN

DATE:

02/02/21

SCALE:

AS SHOWN

DRAWN BY:

RGL

CHECKED BY:

JAG
JOB NO.

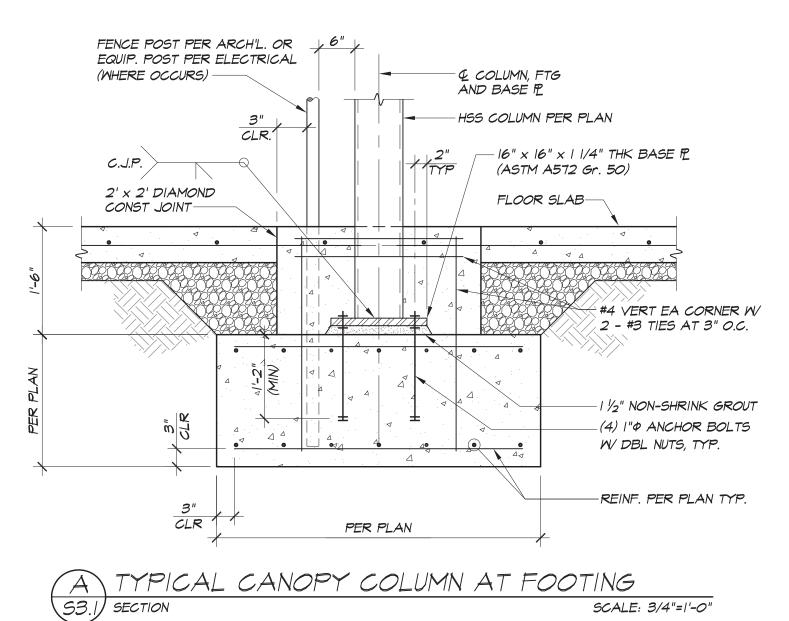
ATM# 20237

S2-

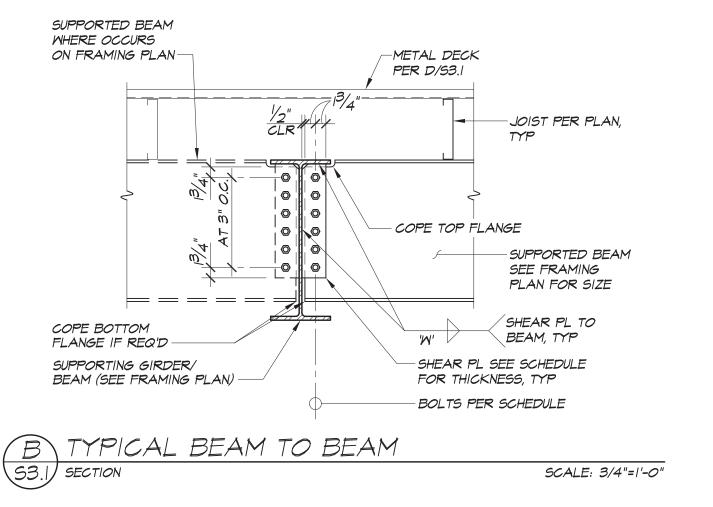
ATM Engineering

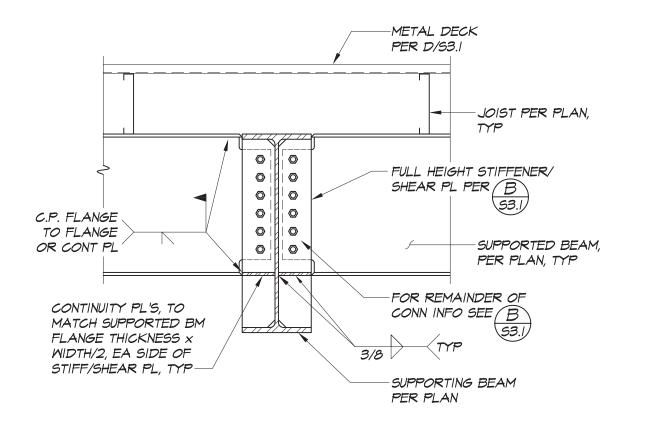
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I. BATCH PLANT INSPECTION NOT REQUIRED FOR SITE FLATWORK. 1705A.3.3.2

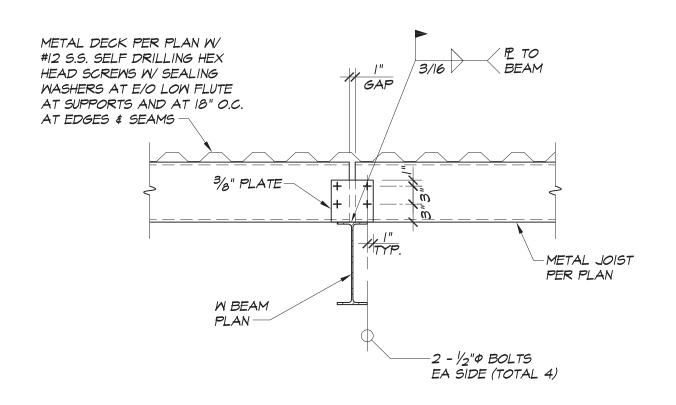


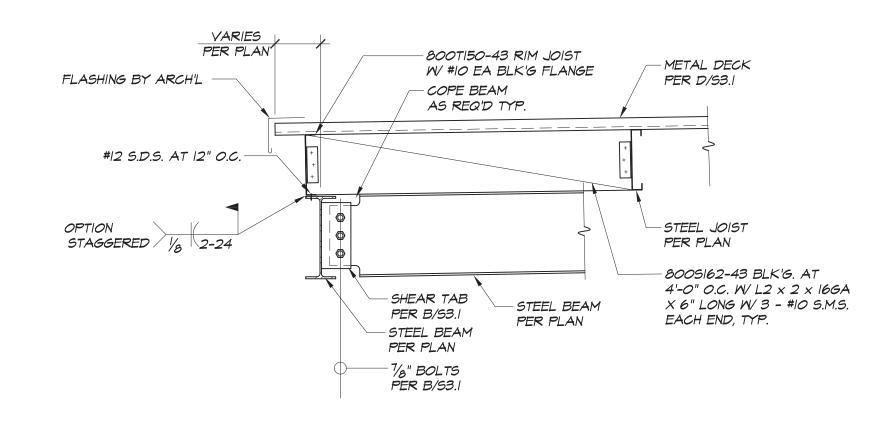
| BOLT SCHE | DULE | | | | |
|---|--------------------------------------|--------------------|------------------|--|--|
| SIZE OF SUPPORTED BEAM SEE FRAMING PLAN | NUMBER OF BOLTS A325N (U.N.O.) | PLATE THICKNESS | WELD SIZE 'W' | | |
| W 8, W 10, C 8 | 2-7/8"Φ | 3/8 | 5/16 | | |
| W 12, W 14 | 3-7/8"Ф | 3/8 | 5/16 | | |

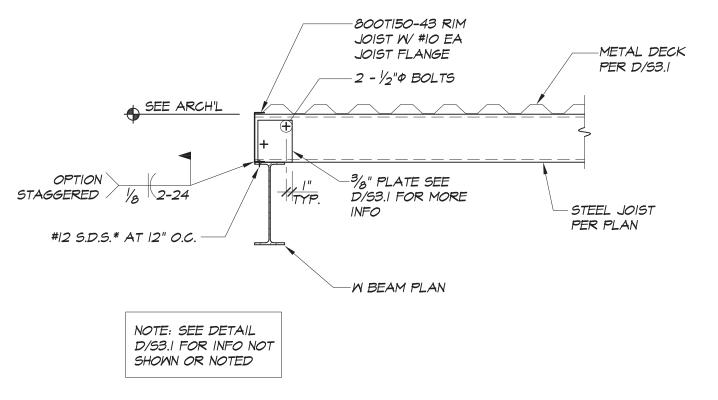




TYP BEAM TO BEAM MOMENT CONNECTION SECTION (ORDINARY MOMENT CONNECTION) SCALE: 3/4"=1'-0"







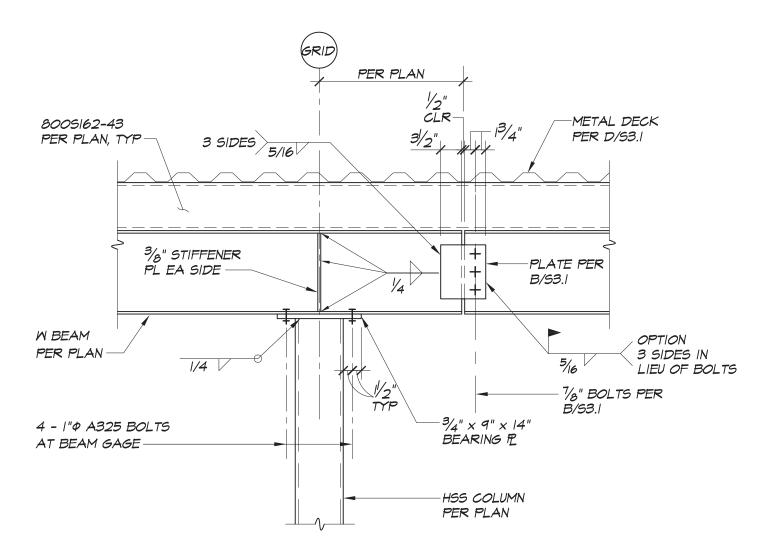
CANOPY PERIMETER PERPENDICULAR TO JOISTS 53.1) SECTION





SCALE: 3/4"=1'-0"





G CANTILEVER W BEAM STRUT AT COLUMN 53.1) ELEVATION SCALE: 3,

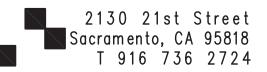


SCALE: 3/4"=1'-0"





HMR ARCHITECTS







STEEL FRAME OUTDOOR COVERED WELDING SHOP AREA

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

DSA APPROVED SET

REVISIONS

NO. DESCRIPTION

MISCELLANEOUS DETAILS

02/02/21 SCALE: AS SHOWN DRAWN BY: CHECKED BY: JAG JOB NO. ATM# 20237

GENERAL NOTES

- 1. FOR ALL UNDERGROUND CONDUITS, USE CAUTION WHEN TRENCHING NOT TO DAMAGE EXISTING CONDUIT, PULL BOXES, TREES, ETC. CUT & PATCH (E) CONCRETE, ASPHALT, LAWN, ETC. TO MATCH (E) CONDITIONS. IF ANY DAMAGE OCCURS TO EXISTING CONDUITS, IRRIGATION LINES, SEWER, ETC. THE CONTRACTOR SHALL REPAIR THE DAMAGE AT THEIR OWN COST TO LIKE NEW CONDITIONS.
- 2. ALL NEW LOW VOLTAGE DEVICES ARE BEING CONNECTED TO EXISTING LOW VOLTAGE SYSTEMS. COORDINATE WITH SCHOOL DISTRICT FOR DEVICE MANUFACTURER AND MATCH (E) CAMPUS DEVICES. NEW FIRE ALARM DEVICES ARE SHOWN ON EQUIPMENT SCHEDULE. PROVIDE ALL REQUIRED CONNECTIONS, REPROGRAMMING, HARDWARE, EXPANSION CARDS, ETC. FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- 3. MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO THE DEVICE. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON THE SYMBOLS LIST UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- 4. THE CONTRACTOR SHALL VISIT THE PROJECT JOB SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN THE BID NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND ALL APPLICABLE CODES.
- 5. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND BEAR THEIR LABEL.
- 6. ALL LOCATIONS SHOWN ON PLANS FOR ALL POWER, FIRE ALARM AND LOW VOLTAGE SIGNAL SYSTEM DEVICES ARE APPROXIMATE. COORDINATE EXACT LOCATION IN FIELD.
- CONTRACTOR SHALL REMOVE ALL LEFT OVER WIRE, SCRAPS, CONDUIT ETC. AND LEAVE THE PROJECT JOB SITE CLEAN AND FREE OF TRASH AND DEBRIS RESULTING FROM HIS WORK.
- 8. CONTRACTOR SHALL REPORT TO THE OWNER'S ENGINEER ANY OBSERVATIONS OF CONDITIONS WHICH ARE DISCOVERED IN THE BUILDING WHICH WOULD PREVENT THE CORRECT INSTALLATION OF THE ELECTRICAL SYSTEMS.
- 9. CONDUIT ROUTING ON PLANS IS SHOWN DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT CONDUIT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES AND OTHER DISCIPLINES.
- 10. ALL CONDUITS AND RACEWAYS PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH APPROVED SEALANT TO MAINTAIN THE FIRE RATING OF THE FLOOR AND WALL.
- 11. INSTALL A SEPARATE GROUND WIRE FROM ALL TELECOMMUNICATION TERMINAL BACKBOARDS TO THE NEAREST ACCESSIBLE GROUND (GROUND BAR, GROUND BUS OR COLD WATER PIPE).
- 12. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE PROVIDED WITH SPECIFIED EXPANSION/DEFLECTION FITTINGS.
- 13. ALL CONDUIT PENETRATIONS THROUGH ROOF AND EXTERIOR WALL SHALL BE SEALED WATERTIGHT.
- 14. COORDINATE ALL CEILING MOUNTED DEVICES WITH (E) BUILDING LIGHTING FIXTURES TO AVOID CONFLICTS.
- 15. CONTRACTOR SHALL MAINTAIN BARRIER SEPARATION BETWEEN SURFACE RACEWAY SYSTEM COMPARTMENTS AT ALL TEES AND OR CROSSES.
- 16. PROVIDE A CEC SIZED INSULATED COPPER GROUND CONDUCTOR IN ALL 120 VOLT THROUGH 600 VOLT FEEDER AND BRANCH CIRCUIT DISTRIBUTION CONDUITS AND CABLES UNLESS OTHERWISE NOTED
- 17. CONTRACTOR SHALL REFER TO POWER PLANS FOR THE LOCATION OF ALL PANELBOARDS.
- 18. FURNISH AND INSTALL ALL PANELBOARDS WITH CIRCUIT BREAKERS AS SHOWN ON PANEL SCHEDULES.
- 19. CONTRACTOR SHALL REFER TO ONE LINE DIAGRAM AND PANEL SCHEDULES FOR COMPONENTS OF THE ELECTRICAL SYSTEM.
- 20. LIGHTING AND POWER PLANS TYPICALLY INDICATE HOMERUNS WITH CIRCUIT NEXT TO DEVICES. CONTRACTOR SHALL ROUTE BRANCH CIRCUITS BASED ON CIRCUITING SHOWN AND SWITCH CONFIGURATIONS.
- 21. TELECOMMUNICATION CABLING SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE OUTLET REQUIREMENTS, RACEWAYS, TELECOMMUNICATION LAYOUTS, ETC. WITH SCHOOL DISTRICT PRIOR TO INSTALLATION.
- 22. ALL LOW VOLTAGE CABLING ROUTING SHALL BE CONCEALED INSIDE THE BUILDING. PER THE SCHOOL DISTRICT, THE LOW VOLTAGE CABLING MAY BE ROUTED FREE AIR ABOVE T-BAR CEILINGS WITH SUPPORTS PER NEC. IN ATTIC SPACES, ALL LOW VOLTAGE & DATA CABLES SHALL BE ROUTED IN CONDUIT. SURFACE MOUNTED RACEWAY SHALL BE USED IF CABLE CONCEALMENT IS NOT APPLICABLE. COORDINATE SURFACE ROUTED RACEWAY MANUFACTURER & LOCATIONS WITH SCHOOL DISTRICT.
- 23. CONTRACTOR SHALL PAINT ALL EXPOSED CONDUITS TO MATCH ADJACENT MATERIAL COLOR.
- 24. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS APPROVED BY AHJ.
- 25. THE ELECTRICAL DRAWINGS ARE NOT INTENDED TO SERVE AS STAND ALONE DOCUMENTS TO COMMUNICATE THE ENTIRE SCOPE OF ELECTRICAL WORK. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF CONSTRUCTION DOCUMENTS.
- 26. WORK INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT TO REMOVE AND INSTALL ELECTRICAL ITEMS SPECIFIED AS SHOWN OR NOT SHOWN WHICH CAN BE REASONABLY ASSUMED TO BE REQUIRED AND NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS.
- 27. ALL ELECTRICAL WORK SHALL CONFORM WITH THE MOST RECENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL STATE AND LOCAL CODES & REQUIREMENTS
- 28. THE COMPLETE SYSTEM SHALL BE GROUNDED PER NEC ART. 250.
- 29. PROVIDE A PULL ROPE IN ALL EMPTY CONDUITS FOR FUTURE PULLING OF CONDUCTORS OR CABLES.

EQUIPMENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS... WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC., SECTIONS 1616 A.1.18 THROUGH 1616 A.1.26 AND ASCE 1-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
 TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY
 ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH
 AS ELECTRICITY. GAS OR WATER.
- 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR
- ROOF LEVEL THAT DIRECTLY SUPPORTS 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 FROM A WALL.

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

PIPING & ELEC. DIST. SYS. BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.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. SMACNA OR OSHPD OPM), 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 SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MP | MD | PP | E | OPTION #1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP | MD | PP | E | - OPTION #2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #

MP MD PP - OPTION *3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MAINUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL ___ AND CONNECTION LEVEL ___ FOR THE PROJECT AND CONDITIONS.

| | ABBREVIA | TIONS | LIST |
|---|---|-------|--|
| Q A A A A A A B B B B B C C C C C C C C E E E E E E E | AT AMPERE AIR CONDITIONING ABOVE FINISHED FLOOR ALUMINUM AMP SWITCH AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE BARE COPPER BOARD BELOW FINISHED CEILING BREAKER BUILDING CONDUIT CIRCUIT BREAKER CIRCUIT CEILING CONDUIT ONLY, WITH PULL LINE COPPER DISCONNECT EXISTING EACH ELECTRICAL CONTRACTOR ELECTRICAL METALLIC TUBING EQUIPMENT ELECTRICAL WATER COOLER ELECTRICAL WATER HEATER EXISTING FUTURE FIRE ALARM CONTROL PANEL FLUORESCENT FOOT GENERAL CONTRACTOR GROUND GYPSUM HIGH INTENSITY DISCHARGE HIGH PRESSURE SODIUM HORSEPOWER | | JUNCTION BOX KILO VOLT AMP KILOWATT LOW VOLTAGE MECHANICAL CONTRACTOR MOTOR CONTROL CENTER MECHANICAL METAL HALIDE MISCELLANEOUS MAIN SWITCHBOARD MERCURY VAPOR NEW NOT IN CONTRACT NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECS. NIGHT LIGHT NUMBER NOT TO SCALE ON CENTER POLE PLUMBING CONTRACTOR PHASE PLUMBING PLYWOOD PANEL PRIMARY POLYVINYL CHLORIDE CONDUIT REQUIRED ROOM RIGID STEEL CONDUIT SECONDARY SQUARE SWITCH TELEPHONE TELEPHO |
| H.P.S. | HIGH PRESSURE SODIUM | UON | UNLESS OTHERWISE NOTED |

WIRE AND CONDUIT LEGEND

CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.

CONDUIT RUN UNDERFLOOR OR UNDERGROUND.

HOME RUN, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS
IN HOME RUN.

FLEXIBLE CONDUIT

FACTORY WHIP

NO CROSSBARS ON CONDUIT INDICATE $\frac{1}{2}$ " CONDUIT WITH TWO #12 AWG CONDUCTORS & ONE #12 AWG GND., CROSSBARS INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT IN ADDITION TO #12 AWG GND. CONDUCTOR SIZE OTHER THAN #12 NOTED ON DRAWING. CONDUIT SIZE OTHER THAN $\frac{1}{2}$ " NOTED ON DRAWING.

CONDUIT UP.

#10 #10 EXAMPLE: THREE CIRCUITS IN HOME RUN - FOUR #10 AWG
CONDUCTORS AND ONE #10 AWG GROUNDING CONDUCTOR
3/4" C. IN 3/4" CONDUIT, RUN CONCEALED IN WALL OR ABOVE CEILING.

ELECTRICAL SYMBOLS LIGHT FIXTURE - SURFACE MOUNTED

Q LIGHT FIXTURE - SURFACE MOUNTED

NOTE: LETTER INDICATES FIXTURE TYPE - SEE FIXTURE SCHEDULE.
SHADING = EMERGENCY FIXTURE. PROVIDE UNSWITCHED HOT
CONDUCTOR TO FEED EXIT AND EMERGENCY LIGHTING.

\$ SINGLE POLE TOGGLE SWITCH, +44" UON

SWITCH SUBCRIPTS: a, b, c, etc. = DEVICE CONTROLLED.

NON-FUSED DISCONNECT SWITCH, SIZE AS REQUIRED

FUSED DISCONNECT SWITCH WITH TIME DELAY FUSES SIZED
PER UNIT NAMEPLATE OR AS NOTED. DISCONNECT SHALL
ACCEPT MAXIMUM RECOMMENDED FUSE SIZE.

DUPLEX RECEPTACLE, NEMA 5-15R, +18" UON

● DUPLEX RECEPTACLE, NEMA 5-20R, +18" UON

DOUBLE DUPLEX RECEPTACLE, NEMA 5-15R, +18" UON

220 VOLT RECEPTACLE, VERIFY NEMA CONFIGURATION IN FIELD WITH EQUIPMENT, +18" UON

RECEPTACLE SUBSCRIPTS

GFI -or- GFCI = GROUND FAULT-CIRCUIT INTERRUPTER R = ROOF MOUNTED, WEATHERPROOF (IN-USE), GFCI

Ø P JUNCTION BOX, SIZE AND TYPE AS REQUIRED

PULLBOX, SIZE AND TYPE AS REQUIRED

SWITCHBOARD, SEE ONE LINE DIAGRAM

BRANCH CIRCUIT PANEL, SEE PANEL SCHEDULES

SIGNAL OR CONTROL PANEL, TYPE AS INDICATED

IDENTIFICATION TAG FOR EQUIPMENT PROVIDED BY M.C CONNECT EQUIPMENT AS INDICATED OR AS REQUIRED.

NUMBERED NOTE TAG - SEE NUMBERED NOTES, SAME SHEET

TELEPHONE TERMINAL BOARD, SIZE AS INDICATED

(A) INDICATES DETAIL "A" AT SHEET "EI"

| LIGHTING CONTROL CABINET SCHEDULE - "LCC" | | | | | | | | | | | |
|---|------------------------|--------|---|---|-------------------|--------------|---------------|--|--|--|--|
| | CIRCUIT DESCRIPTION | | | | BRANCH CIRCUIT | | SWITC LABE | | | | |
| \$ D | CANOPY LIGHTING | 18LW-7 | 1 | 2 | 18LW-9 | FLOOD LIGHTS | \$ D | | | | |
| \$ D | DISPERSAL POLE LIGHT | 18LW-9 | 3 | 4 | | SPARE | | | | | |

ACUITY CONTROLS

LIGHTING ENTINE COHERING

BLUE BOX LT +GR1404 LT ENC-SM NE4 ENCLOSURE WITH

FIGR1404 LT INT-4NCL-DTC-DV
PROVIDE A CHELSEA DIGITAL SWITCH WITH 6 BUTTONS. 1 BUTTON FOR OVERRIDE FOR EACH RELAY, 1 BUTTON FOR ALL ON, 1 BUTTON FOR ALL OFF AND 1 BLANK. COORDINATE PROGRAMMING OF TIME CLOCK WITH WELDING SHOP PERSONNEL AND DISTRICT STAFF.

| | | L | IGH ⁻ | TING F | FIXTU | RE SCH | EDULE | |
|------|---|----------------|------------------|-------------|---------------|---------|--|--|
| TYPE | MANUFACTURER | FIXT. VOLT. | | MPS TYPE | INPUT V.A. | WEIGHT | MOUNTING | REMARKS |
| Д | LITHONIA CLX-L48-5000LM-SEF- WDL-MVOLT-GZI0-40K- 80CRI-MB | MYOLT | | LED | 34.8 | 7.5 LBS | TONG HANGER SURFACE TO UNISTRUT, SEE E/E1.2 | 4' LED LINEAR STRIP WITH WIDE DIFFUSE LENS. |
| Δl | LITHONIA CLX-L48-5000LM-SEF- WDL-120-GZ10-40K- 80CRI-E10WLCP-MB | 12Ø | | LED | 34.8 | 7.5 LBS | | 4' LED LINEAR STRIP WITH WIDE DIFFUSE LENS AND EMERGENCY BATTERY PACK. |
| В | LITHONIA DSXFI LED-PI-40K-WFL- 120-THK-PE-VG-DBLXD | 12Ø | | LED | 21 | 7.2 LBS | THREADED KNUCLE MOUNT SEE G/E1.2 | LED FLOOD LIGHT FIXTURE WITH WIDE FLOOD LIGHT DISTRIBUTION AND VANDAL GUARD. |
| | LITHONIA WST-LED-P2-40K-VF- MVOLT-PBBW-E20WH- DBLXD | 12Ø | | LED | 25 | 20 LBS | +12'-0" TO BOTTOM OF | LED WALL PACK LIGHT FIXTURE WITH PREMIUM SURFACE BACK BOX AND 90 MIN. EMERGENCY BATTERY PACK. |
| D | LITHONIA DSXWPM LED-10C-1000- 40K-TFTM-DBLXD ON A SSS-10-4C-DM19AS- DBLXD POLE. | . 12Ø | | LED | 38.8 | 16 LBS | | POLE MOUNTED LED FIXTURE. MOUNT POLE ON 2'-0" BASE TO PROTECT AGAINST DAMAGE FROM VEHICLES. |

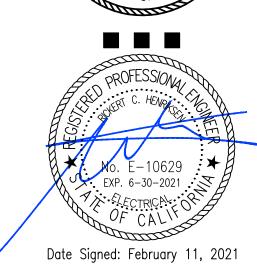
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-118729 INC:

REVIEWED FOR SS FLS ACS DATE: 02/17/2021

HMRARCHITECTS

2130 21st Street
Sacramento, CA 95818







DSA #02-118729
FILE #48-C1

STEEL FRAME
OUTDOOR COVERED
WELDING SHOP AREA

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

DSA APPROVED SET

REVISIONS

NO. DESCRIPTION

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ELECTRICAL SCHEDULES, SYMBOLS & NOTES

DECEMBER 17, 2020

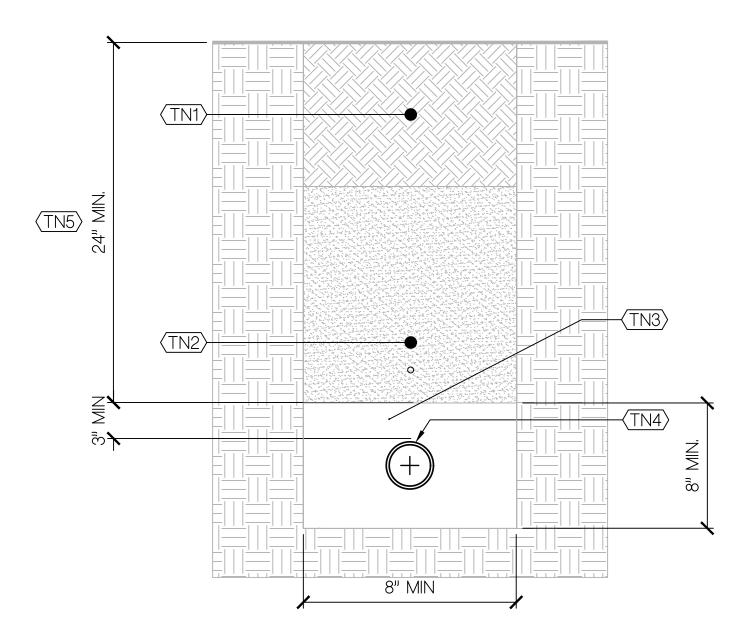
DRAWN BY:
CHECKED BY:

JOB NO. 20025

E1.0

TRENCH NOTES

- (TN1) CONCRETE, ASPHALT, GRASS, ETC TRENCH COVER TO MATCH (E) CONDITIONS.
- (TN2) NATIVE BACKFILL WITH 95% COMPACTION. PROVIDE A WARNING TAPE WITH TRACE WIRE 12" ABOVE CONDUIT PER 2019 C.E.C. 300.5.
- (TN3) 3" SAND ENCASEMENT ALL SIDES.
- (TN4) CONDUIT AS SHOWN ON PLAN. SEE SHEET E3.0 AND
- (TN5) 24" MINIMUM COVER ABOVE CONDUIT AND SAND ENCASEMENT.



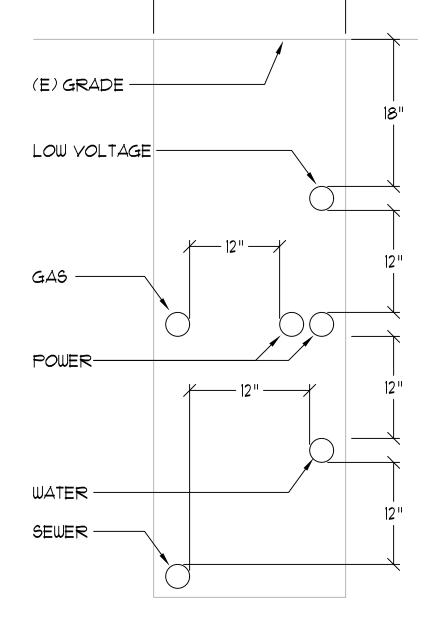
NOTE: TRENCH BOTTOM MUST BE SQUARE.

CONDUIT TRENCH DETAIL

SCALE: NONE E1.1

NOTES

- BACKFILL AND TRENCH COMPACTION MUST MEET ALL APPICABLE FEDERAL, STATE, LOCAL OR UTILITY COMPANY REQUIREMENTS.
- 2. DEPTHS AND SEPARATIONS SHOWN ARE MINIMUMS. VARIANCES MAY BE REQUIRED IF LARGER DIAMETER FACILITIES ARE TO BE INSTALLED. GAS FACILITIES SHALL CONFORM TO PROVISIONS OF G.O. 112D AND ELECTRIC FACILITES SHALL CONFORM TO PROVISIONS OF G.O.
- 3. ADDITIONAL DEPTH MUST BE PROVIDED TO MAINTAIN THE REQUIRED SEPARATION AND COVER IF GAS FACILITIES CROSS ELECTRIC, TELEPHONE, OR CABLE TELEVISION FACILITIES.



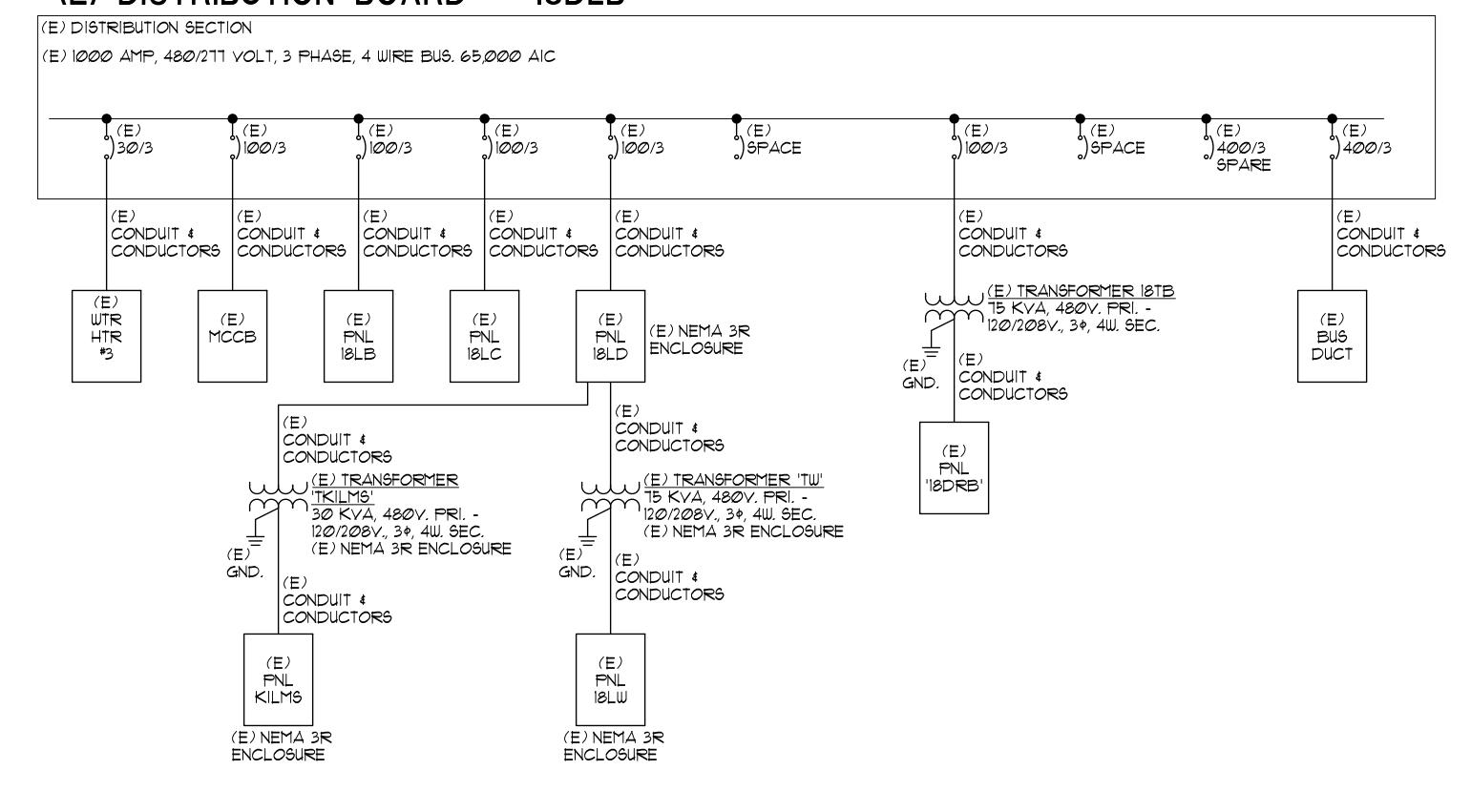
----18"-24" -----

NOTE: TRENCH BOTTOM MUST BE SQUARE.

TRENCH SEPARATION DETAIL SCALE: NONE

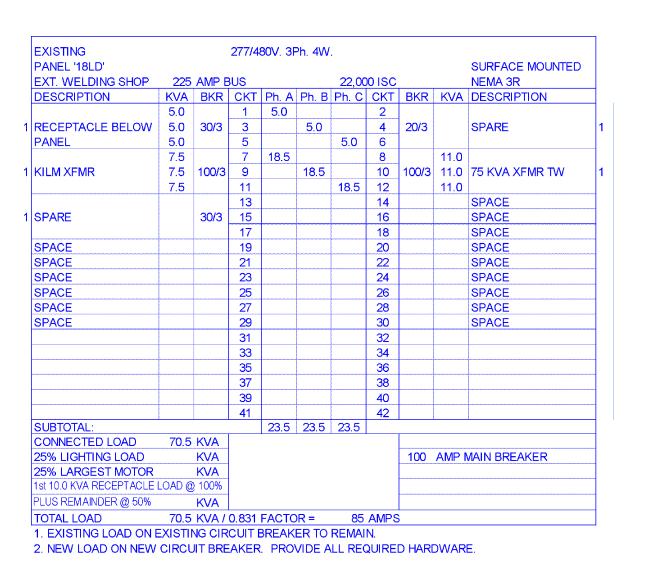
E1.1

(E) DISTRIBUTION BOARD - "18DLB"



ONE LINE DIAGRAM

NO SCALE



| EXISTING PANEL '18LW' | | | | 08V. 3 | | | | | | SURFACE MOUNTER |
|--------------------------|--------|-------|-----|--------|-------|-------|-------|------|-------|------------------|
| EXT. WELDING SHOP | 200 | AMP E | BUS | | | 10.00 | 0 ISC | | | NEMA 3R |
| DESCRIPTION | KVA | BKR | СКТ | Ph. A | Ph. B | Ph. C | CKT | BKR | KVA | DESCRIPTION |
| RECEPT WEST | 0.2 | 20/1 | 1 | 2.2 | | | 2 | 20/2 | 2.0 | METAL CUTTING |
| RECEPT EAST | 0.2 | 20/1 | 3 | | 2.2 | | 4 | | 2.0 | BAND SAW |
| ELECTRIC REEL | 0.2 | 20/1 | 5 | | | 0.4 | 6 | 20/1 | 0.2 | RECEPTACLE |
| CANOPY LIGHTING | 1.1 | 20/1 | 7 | 1.3 | | | 8 | 20/1 | 0.2 | RECEPTACLE |
| YARD LIGHTING | 0.1 | 20/1 | 9 | | 0.3 | | 10 | 20/1 | 0.2 | LIGHT CONTROL LO |
| GRINDER | 1.6 | 20/1 | 11 | | | 3.1 | 12 | | 1.5 | |
| GRINDER | 1.6 | 20/1 | 13 | 3.1 | | | 14 | 20/3 | 1.5 | GRINDER |
| GRINDER | 1.6 | 20/1 | 15 | | 3.1 | | 16 | | 1.5 | |
| GRINDER | 1.6 | 20/1 | 17 | | | 6.1 | 18 | | 4.5 | |
| SPACE | | | 19 | 4.5 | | | 20 | 50/3 | 4.5 | CHOP SAW |
| SPACE | | | 21 | | 4.5 | | 22 | | 4.5 | |
| SPACE | | | 23 | | | | 24 | | | SPACE |
| SPACE | | | 25 | | | | 26 | | | SPACE |
| SPACE | | | 27 | | | | 28 | | | SPACE |
| SPACE | | | 29 | | | | 30 | | | SPACE |
| SPACE | | | 31 | | | | 32 | | | SPACE |
| SPACE | | | 33 | | | | 34 | | | SPACE |
| SPACE | | | 35 | | | | 36 | | | SPACE |
| SPACE | | | 37 | | | | 38 | | | SPACE |
| SPACE | | | 39 | | | | 40 | | | SPACE |
| SPACE | | | 41 | | | | 42 | | | SPACE |
| SUBTOTAL: | | | | 11.1 | 10.1 | 9.6 | | | | |
| CONNECTED LOAD | | KVA | | | | | | | | LUGS ONLY |
| 25% LIGHTING LOAD | | KVA | | | | | | | AMP I | MAIN BREAKER |
| 25% LARGEST MOTOR | | KVA | | | | | | | | |
| 1st 10.0 KVA RECEPTACLE | LOAD @ | 100% | | | | | | | | |
| PLUS REMAINDER @ 50% | | KVA | | | | | | | | |

2. NEW LOAD ON EXISTING CIRCUIT BREAKER. 3. NEW LOAD ON NEW CIRCUIT BREAKER. PROVIDE ALL REQUIRED HARDWARE.

1 KILM #1 5.0 60/3 3 5.2 4 20/1 0.2 RECEPTACLE 6.6 6 20/1 1.6 GRINDER 1 KILM #2 0.2 | 20/1 | 7 8 20/1 1.6 GRINDER 1 RECEPTACLE 0.2 | 20/1 | 9 1 RECEPTACLE 1.8 | 12 | 20/1 | 1.6 | GRINDER 0.2 20/1 SPACE 7.0 7.0 8.4 CONNECTED LOAD 22.4 KVA MAIN LUGS ONLY 25% LIGHTING LOAD 25% LARGEST MOTOR FED WITH 30 KVA XFMR 1st 10.0 KVA RECEPTACLE LOAD @ 100% PLUS REMAINDER @ 50% TOTAL LOAD 22.4 KVA / 0.360 FACTOR = 62 AMPS 1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER TO REMAIN. 2. NEW LOAD ON NEW CIRCUIT BREAKER. PROVIDE ALL REQUIRED HARDWARE

KVA BKR CKT Ph. A Ph. B Ph. C CKT BKR KVA DESCRIPTION 5.0 1 5.2 2 20/1 0.2 RECEPTACLE

120/208V. 3 Ph. 4W.

EXISTING

PANEL 'KILMS'

EXT. WELDING SHOP 100 AMP BUS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITE APP: 02-118729 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: __

HMR ARCHITECTS





2130 21st Street





DSA #02-118729 FILE #48-C1

STEEL FRAME **OUTDOOR COVERED** WELDING SHOP AREA

E1.1

SURFACE MOUNTED

NEMA 3R

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

DSA APPROVED SET

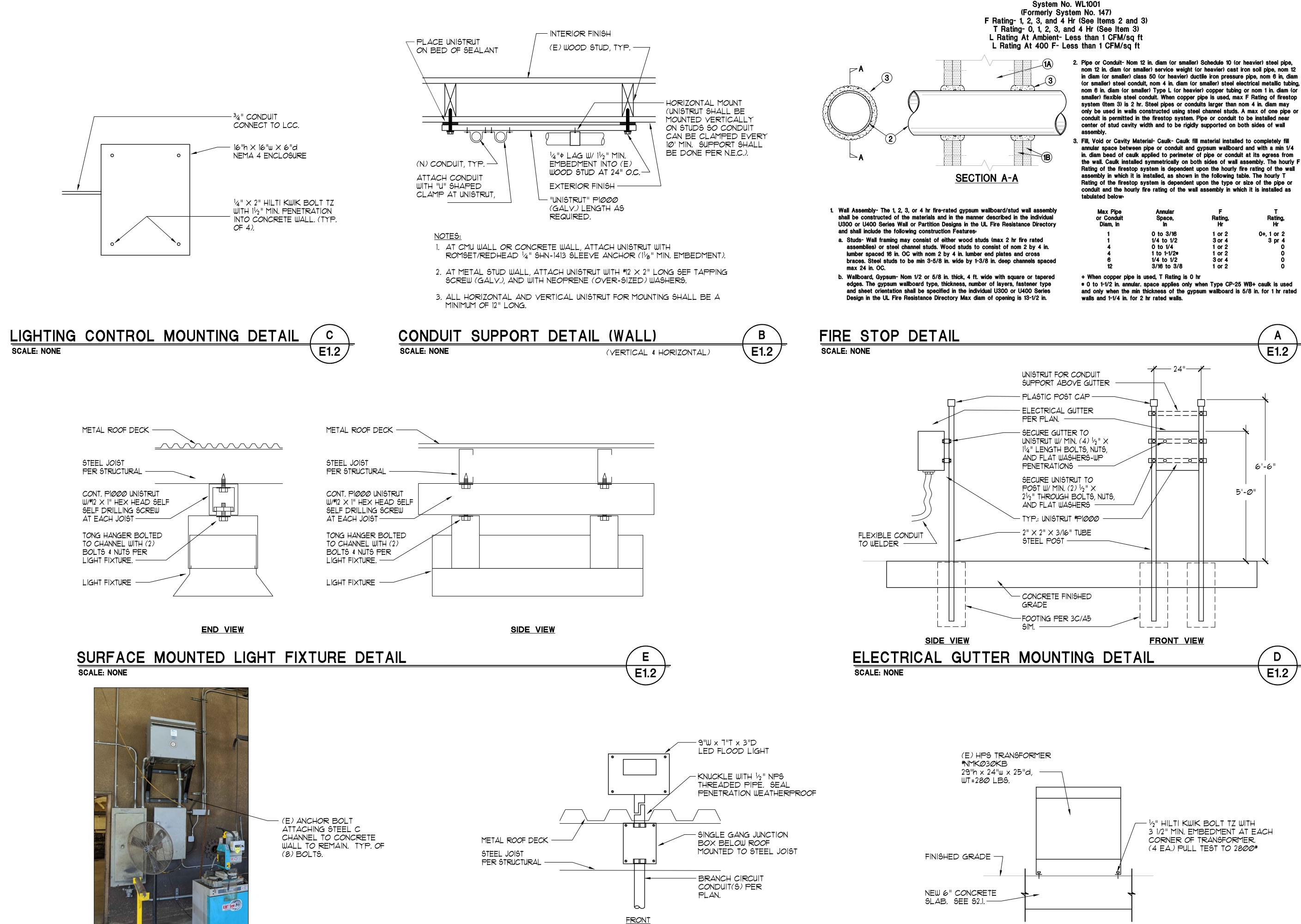
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> ELECTRICAL ONE LINE **DIAGRAM & PANEL SCHEDULE**

DECEMBER 17, 2020

20025



FLOOD LIGHT MOUNTING DETAIL

H

E1.2

SCALE: NONE

(E) ELECTRICAL EQUIPMENT MOUNTING

SCALE: NONE

IDENTIFICATION STAME DIV. OF THE STATE ARCHITEC APP: 02-118729 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 **HMR**ARCHITECTS Sacramento, CA 95818 Date Signed: February 11, 2021 SACRAMENTO ENGINEERING CONSULTANTS 0555 Old Placerville Roa Sacramento, CA 95827-2503 Phone: (916) 368-4468 www.saceng.com
REGISTERED IN 50 STATES Job No. 20662 DSA #02-118729 FILE #48-C1 STEEL FRAME OUTDOOR COVERED WELDING SHOP AREA **SOLANO COMMUNITY** COLLEGE 4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534 DSA APPROVED SET **REVISIONS** NO. DESCRIPTION ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED WORK OF HMR ARCHITECTS AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF HMR ARCHITECTS **ELECTRICAL DETAILS** DECEMBER 17, 2020 CHECKED BY:

2130 21st Street

T 916 736 2724

TRANSFORMER MOUNTING DETAIL SCALE: NONE

G

E1.2

E1.2

Rating,

E1.2

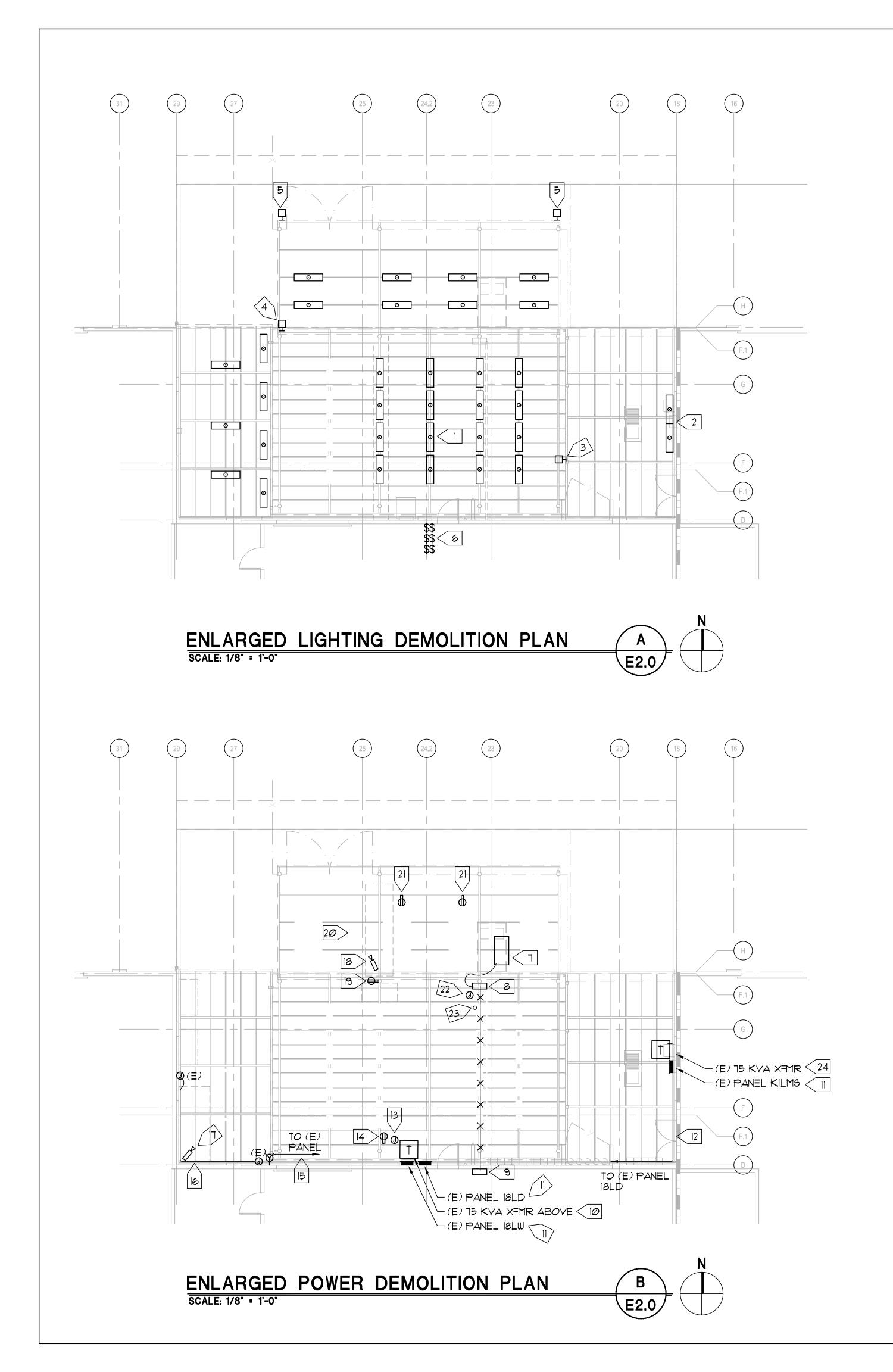
6'-6"

E1.2

5'-0"

0+, 1 or 2

20025



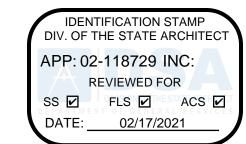
LIGHTING DEMOLTION NOTE

CONTRACTOR SHALL COORDINATE DISPOSAL OF LIGHT FIXTURE, LAMPS, BALLASTS, ETC WITH ALL APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS. SEE SHEET E3.0 LIGHTING PLAN FOR NEW LIGHTS, CIRCUITING AND CONTROLS FOR NEW CANOPY LIGHTING.

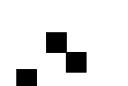
NUMBERED NOTES

- (E) LIGHTING UNDER THE CANOPY TO BE REMOVED. TYPICAL OF ALL LIGHTING SHOWN. DISCONNECT AND REMOVE THE LIGHT FIXTURES, CONDUIT AND CONDUCTORS BACK TO SOURCE ELECTRICAL PANEL. TURN OFF CIRCUIT BREAKER(S). BREAKER(S) WILL BE REUSED FOR NEW LIGHTING CIRCUIT.
- (E) 8' SURFACE WALL MOUNTED LIGHT FIXTURE TO BE REMOVED.
 DISCONNECT AND REMOVE THE LIGHT FIXTURE AND TERMINATE THE
 CIRCUIT IN (E) JUNCTION BOX. PROVIDE A BLANK COVER PLATE FOR
 JUNCTION BOX. THIS WALL IS A 2 HOUR RATED WALL. PROVIDE
 REQUIRED FIRE CAULKING TO MAINTAIN RATING.
- (E) FLOOD LIGHT AND WALL PACK AT THIS LOCATION TO BE REMOVED. DISCONNECT AND REMOVE THE LIGHT FIXTURES. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST (E) JUNCTION BOX INSIDE THE WELDING SHOP AND TERMINATE THE CIRCUIT IN (E) JUNCTION BOX. MAINTAIN CIRCUITING TO (E) FIXTURES INSIDE SHOP. PATCH WALL TO MATCH (E) CONDITIONS.
- (E) STEM MOUNTED FLOOD LIGHT ABOVE (E) CANOPY TO BE REMOVED. DISCONNECT AND REMOVE THE LIGHT FIXTURE. TURN OVER LIGHT FIXTURE TO SCHOOL DISTRICT. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST (E) JUNCTION BOX INSIDE THE WELDING SHOP AND TERMINATE THE CIRCUIT IN (E) JUNCTION BOX. MAINTAIN CIRCUITING TO (E) FIXTURES INSIDE SHOP. PATCH WALL TO MATCH (E) CONDITIONS.
- (E) FLOOD LIGHT AT THIS LOCATION TO BE REMOVED. DISCONNECT AND REMOVE THE LIGHT FIXTURES, CONDUIT AND CONDUCTORS BACK TO SOURCE ELECTRICAL PANEL.
- (E) LIGHT SWITCHES FOR CANOPY, YARD AND INSIDE SHOP LIGHTING TO REMAIN AND BE REUSED FOR NEW LIGHTING. REMOVE SWITCHES AND CONDUCTORS FOR MIDDLE SWITCHES AND PROVIDE A BLANK COVER PLATE. SEE NEW LIGHTING PLAN ON E3.0 FOR NEW WORK.
- (E) WHEELED WELDER TO BE REUSED UNDER NEW CANOPY. DISCONNECT FEEDER TO WELDER AT (E) GUTTER AND COIL FOR RECONNECTION IN NEW LOCATION. SEE POWER PLAN ON E3.0 FOR NEW WORK.
- (E) GUTTER WITH (1) 100 AMP, 3 PHASE AND (2) 100 AMP, 1 PHASE RECEPTACLES. DISCONNECT FEEDERS TO RECEPTACLES AND REMOVE CONDUIT AND CONDUCTORS BACK TO (E) PULL BOX INSIDE WELDING. SHOP. GUTTER AND RECEPTACLES TO REMAIN INSTALLED ON (E) GUTTER AND SHALL BE SET ASIDE TO BE RECONNECTED UNDER NEW CANOPY IN NEW LOCATION. RETAIN (E) CONDUIT, ALL BEAM CLAMPS AND SUPPORTS FOR REINSTALLATION OF NEW CONDUIT. SEE POWER PLAN E3.0 FOR NEW WORK. PATCH HOLE IN WALL TO MATCH (E) CONDITION.
- 9 > (E) POWER PULL BOX INSIDE WELDING SHOP TO REMAIN.
- (E) TRANSFORMER TO REMAIN.
- (E) ELECTRICAL PANEL TO REMAIN. SEE PANEL SCHEDULE FOR NEW
- (E) ELECTRICAL HOMERUN TO PANEL FOR TRANSFORMER. FEEDER CONDUIT IS SUPPORTED BY CLAMPS ATTACHED TO (E) BEAM BEING REMOVED WITH (E) CANOPY. REMOVE CONDUIT CLAMPS FROM BEAM. PROVIDE A CONDUIT CLAMP ON CONCRETE COLUMN. PROVIDE UNISTRUT AND INSTALL BEHIND CONDUIT TO SUPPORT CONDUIT. PROVIDE UNISTRUT CLAMPS AND INSTALL ON CONDUIT TO SUPPORT CONDUIT. PROVIDE A SUPPORT WITHIN 3' OF A CONNECTOR AND 10' ON CENTER OVER TO CONDUIT ROUTED DOWN WALL TO TRANSFORMER.
- (E) JUNCTION BOX WITH 220 VOLT, RECEPTACLE WITH 50 DROP CORD.
 REMOVE AND UNWRAP DROP CORD WITH JUNCTION BOX AND
 RECEPTACLE FROM (E) BEAMS BEING REMOVED. COIL DROP CORD ON
 EXTERIOR WALL NEAR ELECTRICAL PANEL. MOUNT JUNCTION BOX WITH
 RECEPTACLE TO EXTERIOR CONCRETE WALL NEAR (E) 120 VOLT,
 RECEPTACLE.
- (E) RECEPTACLE HIGH ON BAR AT COLUMN TO BE REMOVED.
 DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS BACK TO
 SOURCE PANEL. TURN OFF CIRCUIT BREAKER AND LABEL SPARE.
- (E) HOMERUN FROM (E) 220 YOLT RECEPTACLE. DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS BACK TO (E) GUTTER NEXT TO PANEL 18LW. (E) JUNCTION BOX AND RECEPTACLE TO REMAIN IN PLACE. COIL CONDUCTORS AT GUTTER FOR ROUTING IN NEW CONDUIT. SEE E3.0 FOR NEW WORK. THIS RECEPTACLE IS BEING RE-CIRCUITED DUE TO LOWER HEIGHT OF NEW CANOPY.
- (E) CONDUIT & CONDUCTORS ROUTED BELOW CANOPY, BUT ARE BEING SUPPORTED BY A ZIP TIE AROUND BEAM BEING REMOVED. PROVIDE SLIM UNISTRUT AND AND MOUNT TO WALL VERTICALLY. PROVIDE CONDUIT SUPPORT CLAMP AND INSTALL ON CONDUIT AND UNISTRUT TO SUPPORT CONDUIT. REMOVE ZIP TIE. COORDINATE WITH G.C. BEFORE BEAMS GET REMOVED.
- (E) SECURITY CAMERA IN CORNER BELOW CANOPY BEING REMOVED. CAMERA TO REMAIN. PROTECT CAMERA DURING DEMOLITION. CONTRACTOR IS LIABLE FOR ANY DAMAGE TO CAMERA.
- (E) SECURITY CAMERA TO BE REMOVED AND RE-INSTALLED UNDER NEW CANOPY. DISCONNECT AND REMOVE POWER/DATA CABLE BACK TO INSIDE WELDING SHOP. COIL INSIDE SHOP FOR REROUTING UNDER NEW CANOPY. PATCH HOLE IN WALLTO MATCH (E) CONDITIONS. SEE SHEET E3.0 FOR NEW WORK.

- (E) JUNCTION BOX AND RECEPTACLE ON BEAM BEING REMOVED.
 DISCONNECT AND REMOVE (E) RECEPTACLE, JUNCTION BOX, CONDUIT
 AND CONDUCTORS BACK TO SOURCE PANEL. TURN OFF CIRCUIT
 BREAKER AND LABEL SPARE.
- (E) CUTTING TORCH TABLE TO BE REMOVED. DISCONNECT AND REMOVE
 (E) JUNCTION BOXES, SINGLE CORDED RECEPTACLES, CONDUIT AND
 CONDUCTORS FEEDING TABLE BACK TO SOURCE PANEL. TURN OFF
 CIRCUIT BREAKER AND LABEL SPARE.
- (E) JUNCTION BOX WITH RECEPTACLE IN CANOPY CEILING JOISTS TO BE REMOVED. DISCONNECT AND REMOVE (E) JUNCTION BOX AND RECEPTACLE, CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL. TURN OFF CIRCUIT BREAKER AND LABEL SPARE.
- 22 (E) JUNCTION BOX WITH POWER MOUNTED ON BEAM BELOW CANOPY TO BE REMOVED. DISCONNECT AND REMOVE (E) JUNCTION BOX, CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL. TURN OFF CIRCUIT BREAKER AND LABEL SPARE.
- (E) EXTENSION CORD DROPPED FROM CEILING AND LAYING ON THE GROUND WITH SPLITTER AND RECEPTACLES. REMOVE EXTENSION CORD FROM AROUND LIGHT FIXTURES AND BEAMS BEING REMOVED. REMOVE BACK TO THE RECEPTACLE BELOW (E) PANEL 18LW. COIL EXTENSION CORD AND RETURN TO WELDING SHOP PERSONNEL.
- (E) 30 KVA TRANSFORMER BEING REMOVED FOR NEW CONCRETE SLAB AND REINSTALLED IN SAME LOCATION. DISCONNECT AND COIL CONDUIT AND CONDUCTORS ON WALL. SET TRANSFORMER ASIDE FOR RECONNECTION WHEN NEW CONCRETE SLAB HAS BEEN INSTALLED. SEE SHEET E3.0 FOR NEW WORK.

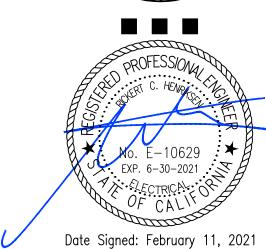


HMRARCHITECTS



2130 21st Street Sacramento, CA 95818 T 916 736 2724







DSA #02-118729 FILE #48-C1

STEEL FRAME
OUTDOOR COVERED
WELDING SHOP AREA

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

DSA APPROVED SET

- - -

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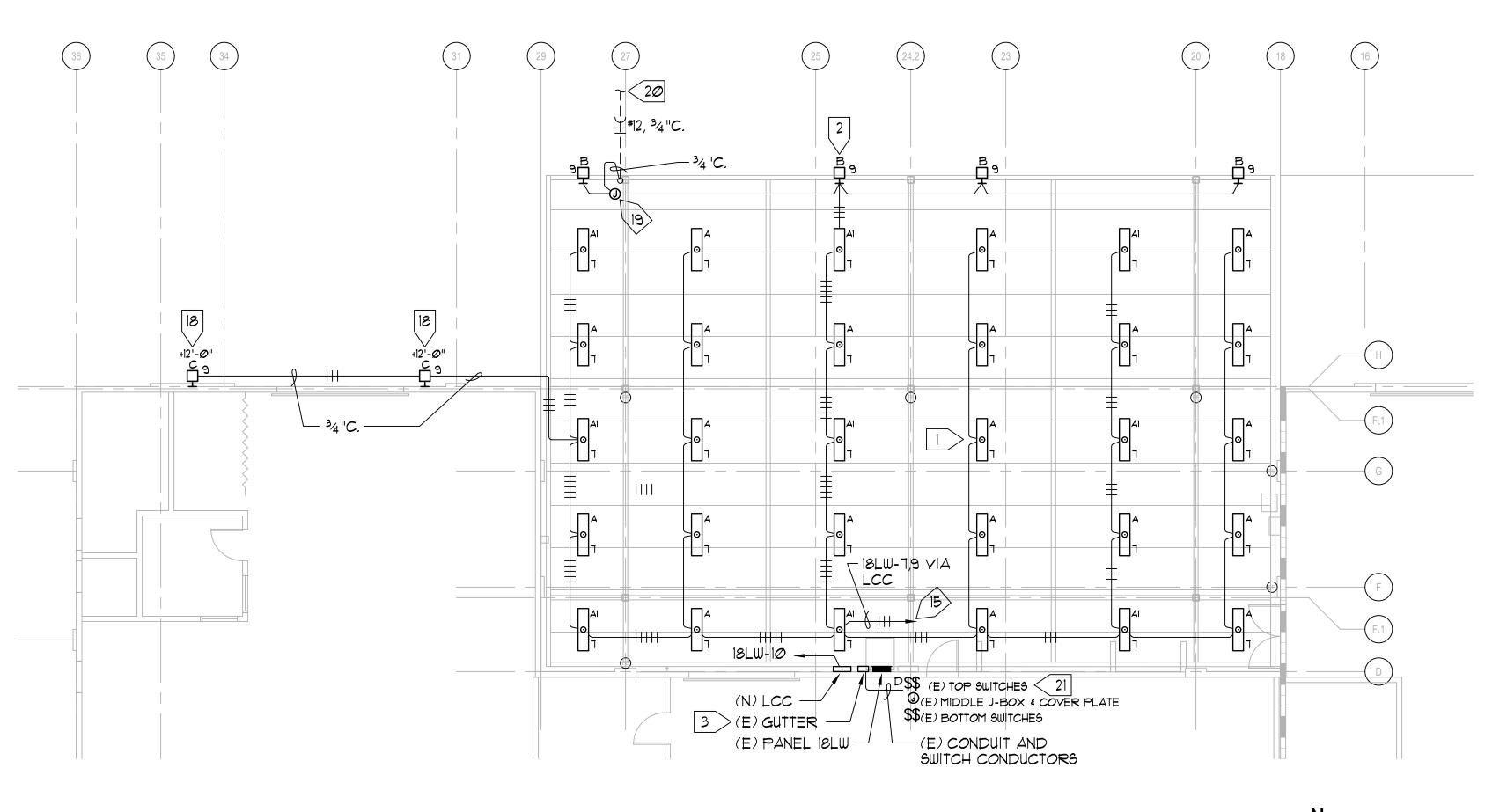
ELECTRICAL DEMOLITION PLANS & NOTES

DECEMBER 17, 2020

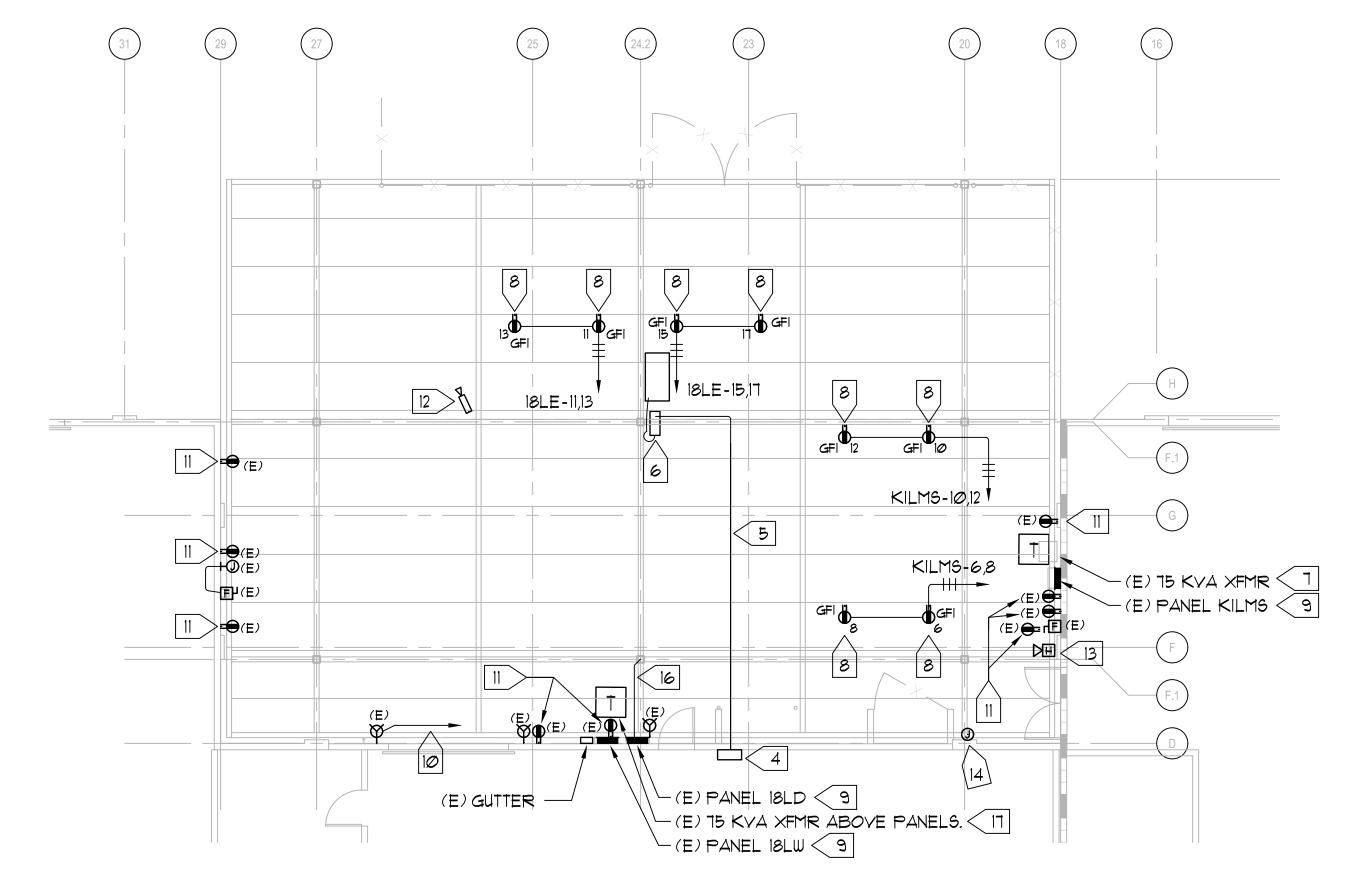
DRAWN BY:

JOB NO. 20025

E2.0







ENLARGED POWER PLAN

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

B
E3.0

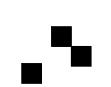


- NEW LIGHT FIXTURE MOUNTED TO UNISTRUT UNDER NEW CANOPY. TYPICAL OF (30)
 LIGHT FIXTURES. PROVIDE AND INSTALL NEW LIGHT FIXTURE. CIRCUIT NEW LIGHT
 FIXTURE AS SHOWN. SUPPORT CONDUIT TO UNISTRUT WITH CONDUIT CLAMP BETWEEN
 LIGHT FIXTURES. SEE DETAIL E/E1.2 FOR MOUNTING.
- NEW FLOOD LIGHT FIXTURE MOUNTED TO LITHONIA ARCHITECTURAL JUNCTION BOX (*AJB). JUNCTION BOX SHALL BE LOCATED BELOW CANOPY ROOF. CUT 1/2" HOLE IN ROOF FOR KNUCKLE WITH 1/2" NPS THREADED PIPE AND CONNECT 1/2" NPS THREADED PIPE TO AJB. CAULK AROUND HOLE TO MAKE WEATHERPROOF. TYPICAL OF (4) TYPE 'B' LIGHT FIXTURES. CIRCUIT NEW LIGHT FIXTURE AS SHOWN. SEE DETAIL G/E1.2.
- (E) SMALL ELECTRICAL GUTTER NEXT TO (E) PANEL 18LW TO REMAIN. FROM GUTTER ROUTE A 3/4" CONDUIT AND CONNECT TO NEW LIGHTING CONTROL CABINET 'LCC'.
 ROUTE LIGHTING CIRCUITS FROM PANEL 18LW INTO GUTTER AND TO LCC. FROM LCC, ROUTE CIRCUITS TO NEW LIGHT FIXTURES AS SHOWN.
- (E) POWER PULL BOX INSIDE WELDING SHOP. ONCE NEW CANOPY IS INSTALLED, ROUTE OUT OF THE PULL BOX AND CORE THROUGH EXTERIOR WALL. ROUTE NEW CONDUIT TO MATCH (E) SIZE THROUGH WALL. SEAL PENETRATION WEATHERPROOF. CONNECT (E) CONDUIT TO NEW CONDUIT AND ROUTE UNDER CANOPY TO NEW LOCATION OF (E) GUTTER AND 100 AMP RECEPTACLES. ROUTE AS HIGH AND TIGHT AS POSSIBLE TO NEW CANOPY STRUCTURE. PROVIDE NEW CONDUCTORS, SIZE TO MATCH (E), AND ROUTE IN NEW AND EXISTING CONDUIT TO (E) GUTTER LOCATION. RECONNECT NEW CONDUCTORS TO (E) RECEPTACLES IN GUTTER.
- 5 NEW AND EXISTING CONDUIT ROUTED FROM PULL BOX TO (E) GUTTERS NEW LOCATION. STRAP CONDUIT TO STEEL JOISTS.
- (E) GUTTER AND 100 AMP RECEPTACLES IN NEW LOCATION. SEE MOUNTING DETAIL D/E1.2. REINSTALL COILED CONDUIT AND CONDUCTORS FROM (E) WELDER BEING REINSTALLED UNDER CANOPY OVER TO (E) GUTTER AND RECONNECT TO (E) FEEDERS IN GUTTER FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- REINSTALL (E) 30 KVA TRANSFORMER TO NEW CONCRETE SLAB. SEE DETAIL F/E1.2.
 ONCE REINSTALLED ON NEW SLAB, RECONNECT (E) CONDUITS AND CONDUCTORS TO TRANSFORMER FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- NEW DEDICATED 20 AMP RECEPTACLE FOR GRIDER. INSTALL JUNCTION BOX TO STEEL JOIST WITH (2) #12 X 1" HEX HEAD SELF DRILLING SCREW. FROM JUNCTION BOX ROUTE A NEW SO DROP CORD WITH STRAIN RELIEF TO 10'-0" ABOVE FINISHED GRADE. PROVIDE A JUNCTION BOX AND RECEPTACLE AT END OF DROP CORD FOR NEW GRINDER POWER CONNECTION. ROUTE CIRCUIT IN CONDUIT TIGHT TO STEEL JOISTS AND CLAMP. ROUTE TO (E) ELECTRICAL PANEL AND CONNECT TO NEW CIRCUIT BREAKERS.
- 9 (E) ELECTRICAL PANEL TO REMAIN. SEE PANEL SCHEDULE ON EI,I FOR NEW WORK.
- PROVIDE A NEW 34" CONDUIT HOMERUN WITH PULL ROPE FROM (E) RECEPTACLE, UP WALL, ACROSS WALL ABOVE (E) ROLL UP DOOR AND DOWN WALL TO (E) SMALL GUTTER NEXT TO PANEL. IF WALL SPACE ABOVE ROLL UP DOOR IS MINIMAL DUE TO NEW CANOPY BEAMS, STRAP CONDUIT TO BOTTOM OF BEAM WITH BEAM CLAMPS. FROM (E) SMALL GUTTER, ROUTE (E) COILED CONDUCTORS IN NEW CONDUIT OVER TO (E) RECEPTACLE. RECONNECT (E) CONDUCTORS TO (E) RECEPTACLE FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- (E) 120 VOLT RECEPTACLES TO BE REPLACED WITH NEW GFI RECEPTACLE.
 DISCONNECT, REPLACE RECEPTACLE WITH NEW 20 AMP, GFI RECEPTACLE AND
 RECONNECT TO (E) CONDUCTORS. PROVIDE A NEW WEATHERPROOF WHILE IN USE
 COVER AND INSTALL ON (E) JUNCTION BOX. MAKE ALL CONNECTIONS COMPLETE
 AND OPERATIONAL.
- NEW LOCATION FOR (E) SECURITY CAMERA. MOUNT CAMERA TO STEEL JOISTS WITH #12 SELF DRILLING SCREWS. PROVIDE A NEW 1/2" CORE THROUGH EXTERIOR WALL FOR (E) POWER/DATA CABLE BELOW NEW CANOPY. PULL (E) POWER/DATA CABLE COILED INSIDE WELDING SHOP THROUGH CORE AND OUT TO NEW LOCATION OF (E) CAMERA. SUPPORT (E) POWER/DATA CABLE AS REQUIRED. SEAL EXTERIOR WALL PENETRATION WEATHERPROOF. RECONNECT POWER/DATA CABLE TO CAMERA AND TEST FOR A COMPLETE AND OPERATIONAL INSTALLATION. COORDINATE AIMING ANGLE WITH WELDING SHOP PERSONNEL.
- (E) FIRE ALARM EXTERIOR HORN TO REMAIN. TEST (E) F.A. EXTERIOR HORN IN THE PRESENSE OF DSA INSPECTOR.
- (E) FIRE ALARM JUNCTION BOX TO REMAIN. JUNCTION BOX IS MISSING THE COVER PLATE. PROVIDE A NEW COVER PLATE AND INSTALL ON (E) JUNCTION BOX. PAINT THE COVER RED TO MATCH (E) RED CONDUIT.
- PROVIDE UNSWITCHED HOT CONDUCTOR TO EMERGENCY FIXTURE TYPE 'AI' AND TYPE 'C' TO ALLOW EMERGENCY BATTERY PACK TO TURN ON FIXTURE IN CASE OF POWER OUTAGE.
- PROVIDE A *4 CU GROUNDING CONDUCTOR AND CONNECT TO GROUNDING LUG IN ELECTRICAL PANEL 18LD. ROUTE *4 CU GROUNDING CONDUCTOR IN 3/4" CONDUIT FROM ELECTRICAL PANEL 18LD DOWN INTO NEW CONCRETE SLAB AND CADWELD GROUNDING CONDUCTOR TO SLAB REBAR. FROM CADWELD, ROUTE A *4 CU GROUNDING CONDUCTOR IN NEW CONCRETE SLAB OVER TO STRUCTURAL STEEL COLUMN. AT COLUMN, CONNECT *4 CU TO GROUNDING LUG BOLTED TO STEEL FRAME.
- (E) 15 KVA TRANSFORMER ABOVE ELECTRICAL PANELS TO REMAIN. SEE EQUIPMENT ELEVATION H/E1.2 FOR EXACT MOUNTING OF TRANSFORMER.
- LIGHT FIXTURE WITH EMERGENCY BATTERY PACK, MOUNTED TO WALL. BOTTOM OF LENS TO BE AT +12'-Ø AS SHOWN. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALLOW EMERGENCY BATTERY PACK TO TURN ON FIXTURE IN CASE OF POWER OUTAGE.
- PROVIDE A JUNCTION BOX AND ROUTE 1/2" CONDUIT OVER TO LIGHT FIXTURE TYPE 'B' JUNCTION BOX AND CONNECT TO LIGHT FIXTURE. FROM JUNCTION BOX, ROUTE CIRCUIT IN 3/4" CONDUIT OVER TO COLUMN AND DOWN COLUMN TO BELOW GRADE. ONCE BELOW GRADE (MINIMUM OF 24"), ROUTE 3/4" CONDUIT OUT TO LIGHT POLE FIXTURE AT SAFE DISPERSAL AREA. COORDINATE ROUTING OF CONDUIT WITH STRUCTURAL FOOTING IN FIELD.
- 20 SEE SHEET E3.1 FOR CONTINUATION OF CONDUIT.
- PEPLACE (E) (2) TOP SWITCHES FOR NEW CANOPY AND EXTERIOR LIGHTS WITH NEW CHELSEA DIGITAL 6 BUTTON SWITCH AND COVER (FOR SWITCH AND BLANK). ROUTE (1) CATSE CABLE TO LCC AND CONNECT FOR A COMPLETE AND OPERATIONAL INSTALLATION. SEE LCC SCHEDULE ON SHEET EI.0 FOR MANUFACTURER AND PROGRAMMING REQUIREMENTS.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-118729 INC:

REVIEWED FOR SS FLS ACS DATE: 02/17/2021

HMRARCHITECTS



2130 21st Street Sacramento, CA 95818 T 916 736 2724







DSA #02-118729
FILE #48-C1

STEEL FRAME
OUTDOOR COVERED
WELDING SHOP AREA

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

DSA APPROVED SET

REVISIONS

NO. DESCRIPTION

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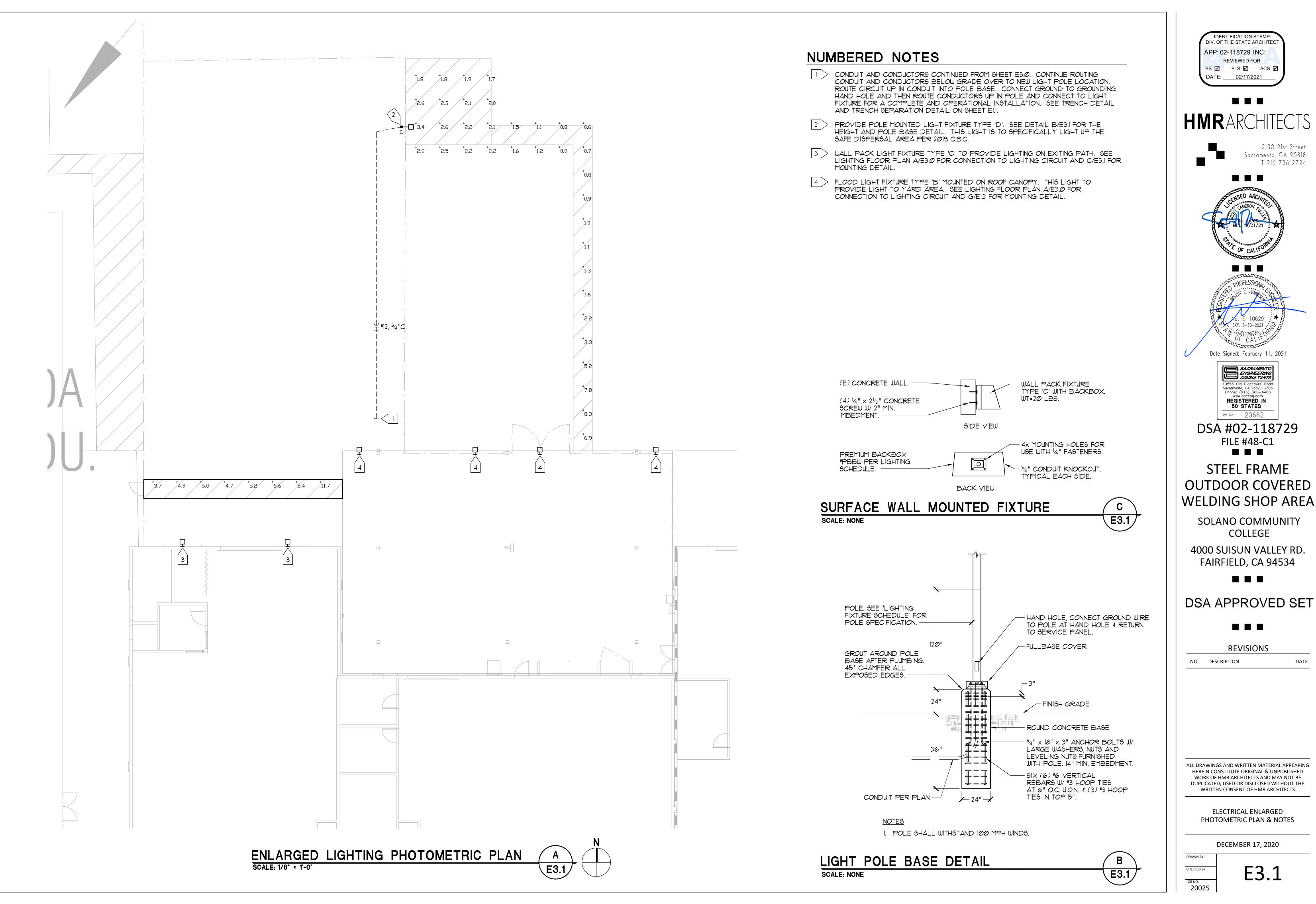
ELECTRICAL ENLARGED FLOOR PLANS & NOTES

DECEMBER 17, 2020

DRAWN BY:

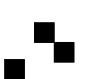
JOB NO. 20025

E3.0



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DSA #02-118729 FILE #48-C1

STEEL FRAME **OUTDOOR COVERED**

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> ELECTRICAL ENLARGED PHOTOMETRIC PLAN & NOTES

DECEMBER 17, 2020

E3.1

| Outdoor Lighting NRCC-LTO-E (Created 11/19) | | | | CALIFORI | NIA ENERGY COMMISSION | | or Lighting (Created 11/19) | 8 | | | | | | | CALIFORNIA ENERGY (|
|--|---|--|---|---|---|---------------------------|---------------------------------|---|--|---|--|----------------------|------------------------|----------------------------|--|
| CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance | | | | | NRCC-LTO-E using the prescriptive path. | CERTIFICA Project Na | TE OF COMPI me: Solan | o Community Colleg | | | | Report Pag | | | |
| Project Name: Solano Community College Weld Project Address: 4000 Suisun Valley Road, Fairfield | | | rt Page: Prepared: | | Page 1 of 7 02/10/21 | | TIONAL CON | Suisun Valley Road, | Fairfield, CA 9453 | 4 | | Date Prepa | red: | | |
| A. GENERAL INFORMATION 01 Project Location (city) | Fairfield | 04 Total Illum | inated Hardscape Are | ea (ft²) | 5,997 | This table | is auto-filled | with uneditable com | | f selections made | or data entere | ed in tables through | nout the form. | | |
| 02 Climate Zone 03 Outdoor Lighting Zone per Title 24, Part 1 §10 | | | | CAF | | Canopy | Fixtures: Lum | ing Controls Permit Aninaire with a max with a max with a max | attage of 40 are r | | | | | | |
| LZ-1: Low - Developed Parkland | Z-2: Moderate - Rural Areas Z-3: Moderately High - Urban A | | Must be reviewed by | CA Energy Commission | n tor Approval | | IONAL REM | | a.cuage or 40 are | et required to n | .ave motion co | | 2 130.2(0) | <u>.</u> | |
| B. PROJECT SCOPE Table Instructions: Include any outdoor lighting sys | stems that are within the scope | e of the permit application | on and are demonstra | ting compliance using | the prescriptive path | This table | includes rem | arks made by the pe | rmit applicant to | the Authority Hav | ing Jurisdictio | n. | | | |
| outlined in §140.7 or §141.0(b)2L for alterations. My project consists of: 01 | | | 02 | | | F. OUTD | OOR LIGHTII | NG FIXTURE SCHEI | DULE | | | | | | |
| 01 ✓ New Lighting System Altered Lighting System | Must Comply with Allowan | | | (Yes | S (No | Table Inst existing Iu | ructions: For i | new or altered lighti naining or being mov | ng systems demo ed within the spa | ces covered by the | e permit appli | cation in the Table | below. For alte | ered lighting s | Il luminaires being in |
| 03 % of Existing Luminaires Being Altered ¹ | Sum Total of Luminaires | 1 | loud (Watts). | 05 Calculation Metl | | | t include exist | L (ie Table N has exp ing luminaires rema | | | | ing installed and re | placement lumi | inaires being | installed as part of t |
| FOOTNOTES: % of Existing Luminaires Being Alter C. COMPLIANCE RESULTS | red = (Sum Total of Luminaires | Being Added or Altered , | / Existing Luminaires \ | within the Scope of the | Permit Application) x 100 | 01 | wattage. | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 Cutoff Req. ≥ |
| Table Instructions: If any cell on this table says "DC Calculation of Total Allowed Lighti | | <u> </u> | ditions" refer to Table | D. for guidance. Compliance Res | ults | Name or Item Tag | Complete | Luminaire Description | Watts per luminaire ^{1,2} | | s Total number luminaires ² | Luminaire Statu | excluded per §140.7(a) | Design Wat | 6,200 initial lume output |
| 01 02 03 General | 04 05 | 06 | 07 | 08 | 09 | A,A1 | SURFA | CE LED Lin | ear 34.8 | Mfr. Spec ¹ | 30 | New | | 1,044 | §130.2(b) ⁴ NA: <6,200 lume |
| Hardscape + Application + Frontage Sales Frontage Sales Sales | + Ornamental \$140.7(d)2 + Per Spec Area \$140.7(| OR Power = | = Total Allowed (Watts) | ≥ Total Actual (Watts) | 07 Must be≥08 | B C | LED FLOC | LL PACK Lin | ear 25 | Mfr. Spec ¹ Mfr. Spec ¹ | 2 | New New | | 84 50 | NA: <6,200 lume NA: <6,200 lume |
| §140.7(d)1 (See Table I) (See Table J) (See Table K) 581.925 + + + | (See Table L) (See Table + 856.1 | e M) (See Table N) | = 1,438.095 | (See Table F) ≥ 1,216.8 | COMPLIES | D * NOTES: | LED POL | , | 200 200000 | Mfr. Spec ¹ | 1 | | esigned Watts: | 38.8 : 1,216.8 | NA: <6,200 lume |
| 301.923 | Cutoff Compliance | e (See Table G for Details (See Table H for Details | s) | Not Applicable MPLIES with Exception | e | | | th a * require a note g a statue; EXCEPTIC | | | v compliance i | s acnieved. | | | |
| | | | | • | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| CA Building Energy Efficiency Standards - 2019 Nonresid | dential Compliance: http://www.e | nergy.ca.gov/title24/2019s | standards | | November 2019 | CA Building | g Energy Efficie | ncy Standards - 2019 N | Nonresidential Com | pliance: <u>http://wwv</u> | w.energy.ca.gov | /title24/2019standar | <u>'ds</u> | | |
| TATE OF CALIFORNIA | | | | | | STATE OF CA | LIFORNIA | | | | | | | | |
| Outdoor Lighting NRCC-LTO-E (Created 11/19) | | | | CALIFORI | NIA ENERGY COMMISSI19 | Outdoo NRCC-LTO-E | or Lighting (Created 11/19) | | | | | | | | CALIFORNIA ENERGY C |
| CERTIFICATE OF COMPLIANCE Project Name: Solano Community College Weld Project Address: 4000 Suisun Valley Road, Fairfield | | | rt Page: Prepared: | | NRCC-LTO-E Page 4 of 7 02/10/21 | Project Na | | LIANCE o Community Colleg Suisun Valley Road, | | | | Report Page | | | |
| Table Continued | | 5460 | · | | ,, | | 01 | | 02 | 0 | 3 04 | 05 | 06 (| | 08 09 |
| Table Instructions: Please complete this table for a allowance calculations per <u>§140.7</u> . General Hards is per <u>Table 140.7-A</u> while "Use it or lost it" Allowa | cape Allowance | eral | Use it or lose it" | Allowances (select all t | nat apply) | Aı | ea Descriptio | on Sp | pecific Area Type Table 140.7-B | per Spe | cific Allow | | uminaire Wat | | of Design Watt |
| Table 140.7-B. Indicate which allowances are being expand sections for user input. Luminaires that qu | g used to | scape Per Applica | ation Sales Fron | tage Ornamen | tal Per Specific Area | | _ | | | Ar (ft | (W/ft | (Watts) It | tem Tag | ninaire ² Lumir | |
| the "Use it or lose it" allowances shall not qualify f it or lose it" allowance. Calculated General Hardscape Lighting Power Allo | Table I (be | | Table K | Table L | Table M | | Canopy | Non- | sales Canopies/Tu | unnels 3,1 | .71 0.27 | 856.17 | A 3 | | 30 1,044 s Area: 1,044 |
| 02 03 | 04 0! Area Wattage Al | 5 06 | 07 Linear Wa | 08 attage Allowance (LWA | 09 10 N Total General | | | | | | | | | | ance (Watts) All Area |
| Area Description Surface Type | | Density Area Allowance | | Illowed Density Linear | | ¹ FOOTNO | TES: See <u>Tabl</u> | <u>le 140.7-B</u> for the rul | es for calculating | the specific areas | (ft²) for these | additional lighting | allowances. | | |
| SHOP YARD & PARKING Asphalt | 5,997 0.0 | 25 149.925 | 328 | 0.25 | 82 231.925 | ² For lumi | | ed in Table F as lined | | | | | | ie luminaire s | hould be indicated in |
| | | | | Allowance for Entire Si al Hardscape Allowan | | | | TIONS POWER ALLO | OWANCE (altera | ations only) | | | _ | | |
| J. LIGHTING ALLOWANCE: PER APPLICATION This Section Does Not Apply | | | | | 2 | | ON Does Not A | Apply REQUIRED CERTIF | ICATES OF INST | ALLATION | | | | | |
| K. LIGHTING ALLOWANCE: SALES FRONTAGE | | | | | ? | Table Inst Table E. A | ructions: Sele dditional Ren | ections have been mo | ade based on info ents must be prov | rmation provided rided to the buildin | ng inspector d | | | | be changed, please https://www.energy.c |
| This Section Does Not Apply | | | | | | | | /2019_compliance_a | | | | | | | Fi |
| L. LIGHTING ALLOWANCE: ORNAMENTAL This Section Does Not Apply | | | | | ? | • | 0 | NRCI-LTO-01-E - M | lust be submitted | for all buildings. | . 2, 110 | | | | Pa |
| M. LIGHTING ALLOWANCE: PER SPECIFIC ARE | 10000 | nca par encelfi- | o from Table 440 = 5 | Mora than | ? | • | 0 | NRCI-LTO-02-E - M | | for a lighting con | trol system; o | r for an Energy Mai | nagement Cont | rol System (E | MCS), to be |
| Table Instructions: Please complete this table for a taken in a single project, if applicable. However, mable Continued | | | | | ac area allowance may be | | | • | | | | | | | 1 |
| Table Continued | | | | | I | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| CA Building Energy Efficiency Standards - 2019 Nonresid | dential Compliance: http://www.e | nergy.ca.gov/title24/2019s | standards | | November 2019 | CA Building | g Energy Efficie | ncy Standards - 2019 N | Nonresidential Com | pliance: <u>http://wwv</u> | v.energy.ca.gov | /title24/2019standar | <u>'ds</u> | | |
| STATE OF CALIFORNIA | | | | | | | | | | | | | | | |
| Outdoor Lighting NRCC-LTO-E (Created 11/19) | | | | CALIFORI | NIA ENERGY COMMISSION | | | | | | | | | | |
| CERTIFICATE OF COMPLIANCE Project Name: Solano Community College Weld Project Address: 4000 Suisun Valley Road, Fairfield | | | rt Page: Prepared: | | NRCC-LTO-E Page 7 of 7 02/10/21 | | | | | | | | | | |
| DOCUMENTATION AUTHOR'S DECLARATION | | Pare | . горигои. | | 02/10/21 | | | | | | | | | | |
| I certify that this Certificate of Compliance documentation Author Name: | entation is accurate and comp | | Author Signature: | +A | | | | | | | | | | | |
| Company: SACRAMENTO ENGINE | ERING CONSULTANTS | Signature Date: | | 02/10/21 | | | | | | | | | | | |
| Address: 10555 OLD PLAG City/State/Zip: SACRAMEN | CERVILLE RD ITO, CA 95827 | CEA/ HERS Cert Phone: | ification Identification | (if applicable): (916) 368-4468 | | | | | | | | | | | |
| RESPONSIBLE PERSON'S DECLARATION STATEME I certify the following under penalty of perjury, u | NT | | | | | | | | | | | | | | |
| The information provided on this Certificate of I am eligible under Division 3 of the Business a | f Compliance is true and corre | ct. | ouilding design or syst | em design identified o | on this Certificate of | | | | | | | | | | |
| Compliance (responsible designer) 3. The energy features and performance specifical Certificate of Compliance conform to the requi | • | | _ | | gn identified on this | | | | | | | | | | |
| The building design features or system design compliance documents, worksheets, calculation | features identified on this Cer ons, plans and specifications s | tificate of Compliance a ubmitted to the enforce | re consistent with the ment agency for app | e information provide roval with this building | g permit application. | | | | | | | | | | |
| I will ensure that a completed signed copy of the to the enforcement agency for all applicable in | his Certificate of Compliance is spections. I understand that is | shall be made available | with the building per | mit(s) issued for the b | uilding, and made available | | | | | | | | | | |
| documentation the builder provides to the builder prov | ilding owner at occupancy. KERT C. HENRIKSEN | Responsible De | signer Signature: | 10 | | | | | | | | | | | |
| Company: SACRAMENTO ENGINE Address: 10555 OLD PLAGE | | Date Signed: License: | | 02/10/21 E-10629 | | | | | | | | | | | |
| | ITO, CA 95827 | Phone: | | (916) 368-4468 | | | | | | | | | | | |
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November 2019

STATE OF CALIFORNIA

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

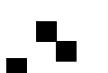
Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: Solano Community College Welding Shop Canopy Page 3 of 7 Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534 Date Prepared: 02/10/21 ¹ FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) ² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of 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 cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b). G. CUTOFF REQUIREMENTS (BUG) This Section Does Not Apply H. OUTDOOR LIGHTING CONTROLS Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application. nstalled and any When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will xisting Power show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the the project scope dropdown list to indicate not applicable or an exemption. **Mandatory Controls** Field Inspector Shut-Off Auto-Schedule **Motion Sensor** n Field Inspector Area Description §130.2(c)1 §130.2(c)2 §130.2(c)3 Canopy Fixtures Astronomical Timer Exempt * NA: Wall ≤ 24ft Wall Pack Fixtures Astronomical Timer Exempt * *NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c). Luminaire with a max wattage of 40 are not required to have motion controls per Exception 1 to 130.2(c)3. Canopy Fixtures Luminaire with a max wattage of 40 are not required to have motion controls per Exception 1 to 130.2(c)3. Pole Light Fixture I. LIGHTING POWER ALLOWANCE (per §140.7) CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards November 2019 November 2019 STATE OF CALIFORNIA **Outdoor Lighting** NRCC-LTO-E (Created 11/19) CERTIFICATE OF COMPLIANCE Project Name: Solano Community College Welding Shop Canopy Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534 Date Prepared: 02/10/21 P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Additional Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Allowance Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html (Watts) YES Pass Fail NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 • 0 856.17 as: 856.17 in column 08 e explain why in .ca.gov/ Field Inspector
Pass Fail November 2019 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards November 2019

STATE OF CALIFORNIA

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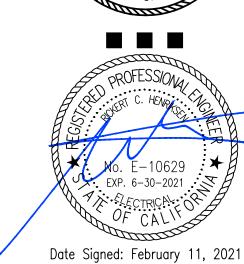
REVIEWED FOR
SS FLS ACS DATE: 02/17/2021

HMR ARCHITECTS



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DSA #02-11872 FILE #48-C1 ■ ■ ■

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ELECTRICAL T24 LIGHTING CALCULATIONS

DECEMBER 17, 2020

CHECKED BY:

JOB NO. **20025**

ET24