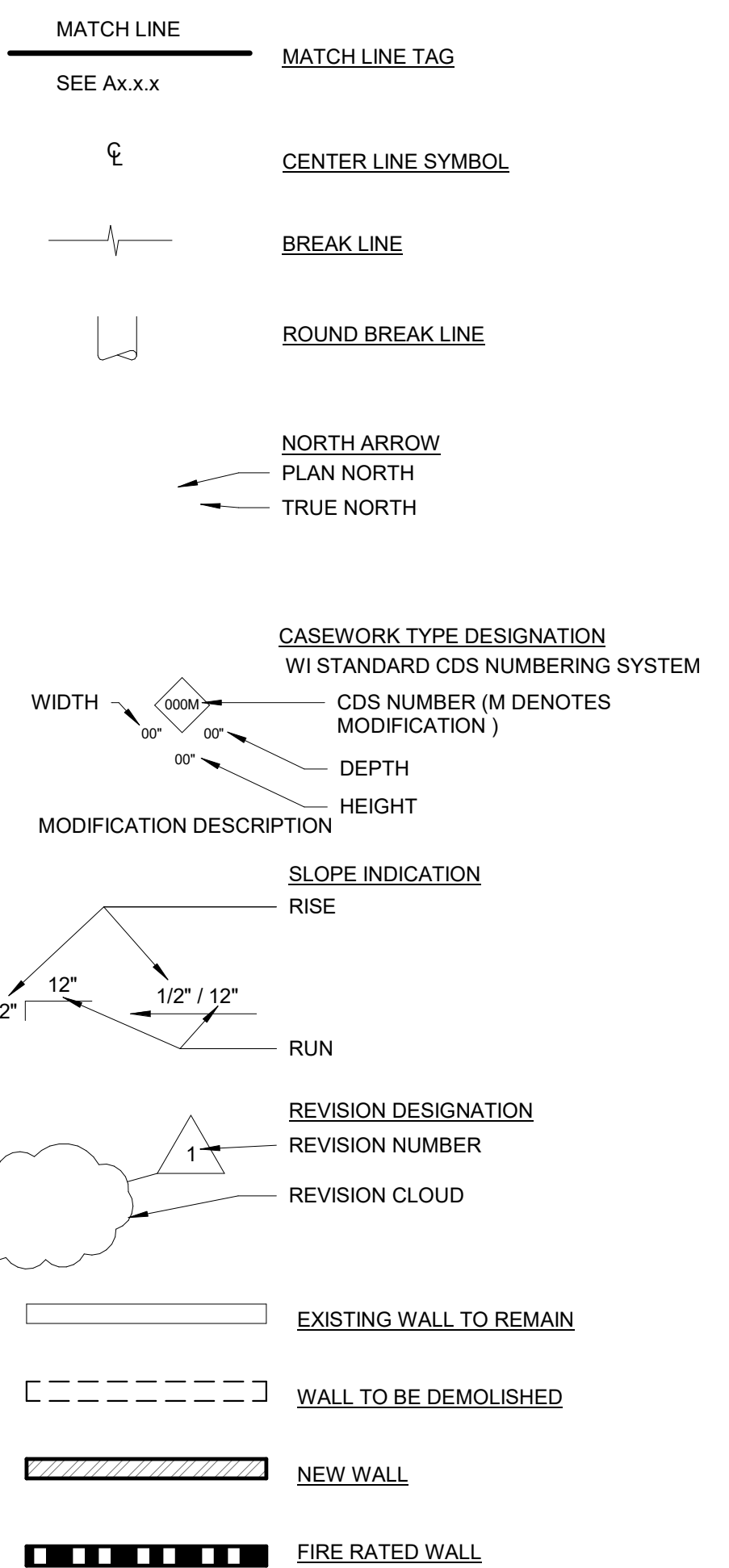
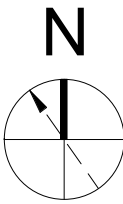
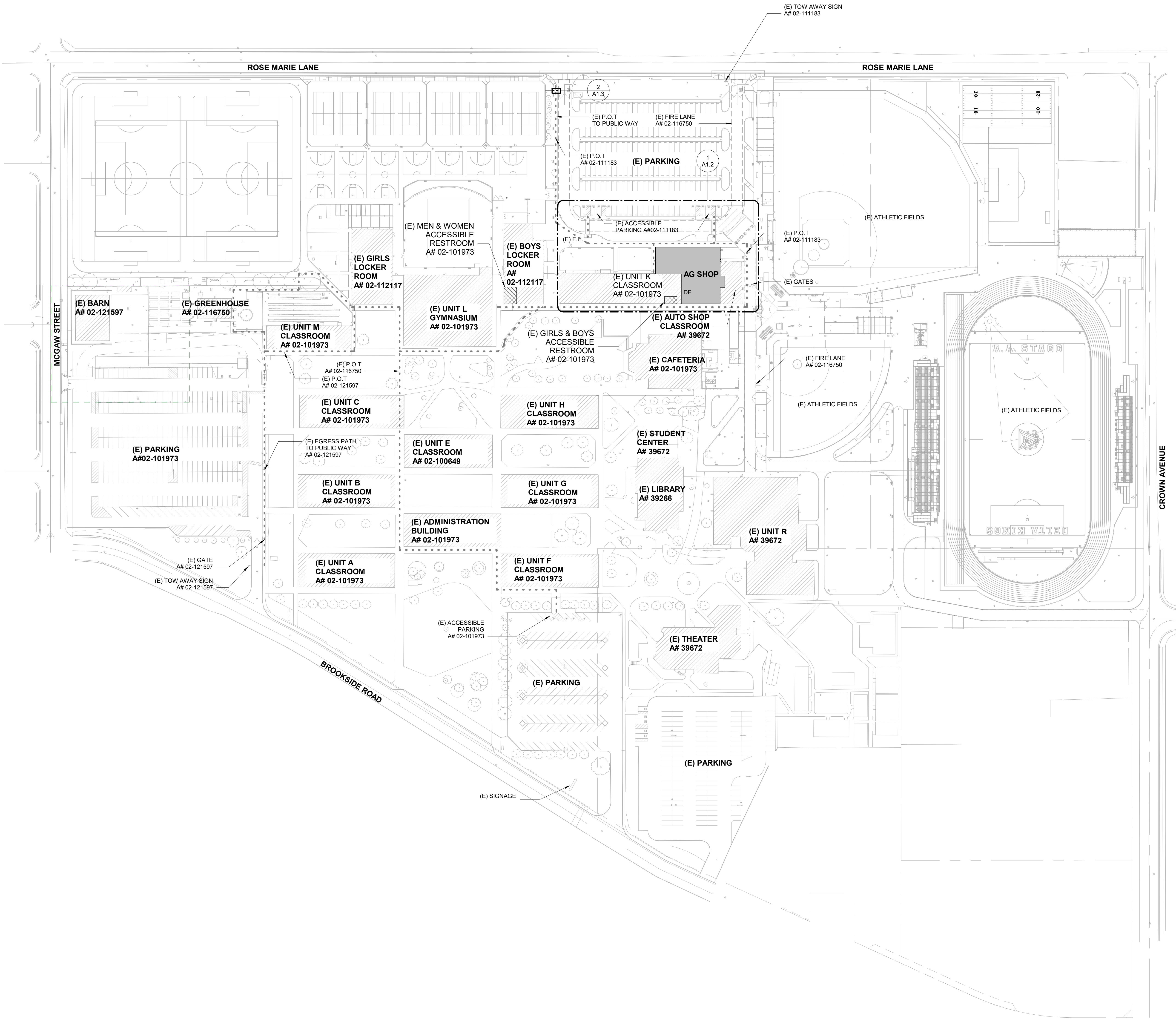


G0.1





ACCESS COMPLIANCE STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATES:

THE PATH OF TRAVEL (POT) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF POT THAT WERE DETERMINED TO BE NONCOMPLIANT HAVE:

1. BEEN IDENTIFIED ON THESE PLANS
2. THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THE PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATION INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ACCESSIBLE ROUTE COMPONENTS INCLUDE BUT ARE NOT LIMIT TO:

- AT LEAST 48" IN WIDTH, OR AS APPROVED BY CODE;
- WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4";
- WITH A FIRM, STABLE AND SLIP RESISTANT WALKING SURFACE;
- WITH A RUNNING SLOPE OF 1:20 OR LESS;
- WITH RUNNING SLOPE OF CODE COMPLIANT RAMPS, NOT TO EXCEED 8.33% (1:12), (RAMPS COMPLY WITH 11B-405);
- WITH REQUIRED LANDINGS AND LEVEL AREAS WITH SLOPE 1:48 (1/4"FT.) OR LESS;
- WITH A CROSS SLOPE OF 1:48 (1/4"FT.) OR LESS;
- WITH OPENINGS IN DRAINS AND GRATING NOT TO EXCEED 1/2" IN PREDOMINANT DIRECTION OF TRAVEL;
- IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE, AND
- IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE

SITE PARKING ANALYSIS

TOTAL PARKING STALLS: 557 SPACES 35 ACCESS TOTAL 6 VAN ACCESS

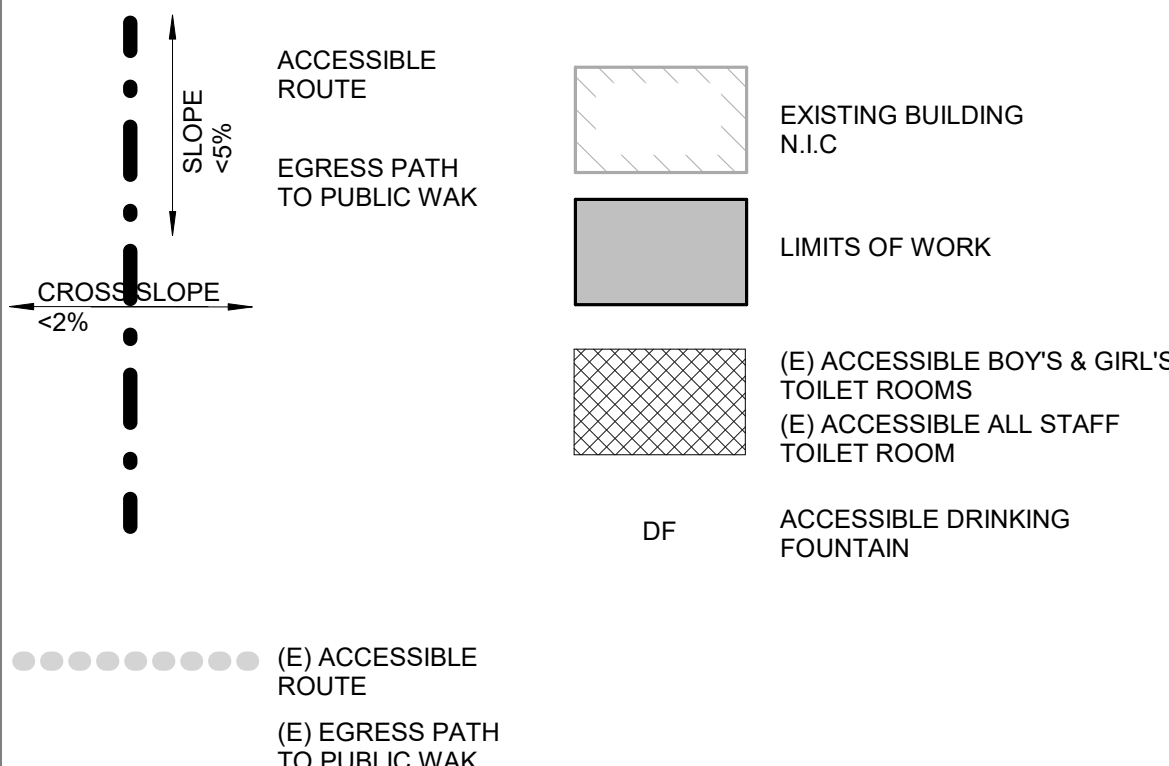
REQ'D NO. OF ACCESSIBLE PARKING STALLS PER CBC TABLE 11B-208.2 = 2% OF TOTAL (12)

NO. OF ACCESSIBLE PARKING PROVIDED = 35

REQ'D NO. OF VAN ACCESSIBLE PARKING STALLS PER CBC TABLE 11B-208.2.4 = 2

NO. OF VAN ACCESSIBLE PARKING PROVIDED = 6

SITE LEGEND



DSA 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 Buildings.

PROJECT INFORMATION				
School District/Owner:	Stockton Unified School District			
Project Name/School:	Stagg High School			
Project Address:	1621 Brookside Road Stockton CA 95207			

FIRE & LIFE SAFETY INFORMATION				
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Refer to the following website for FHSZ locations: http://www.fire.ca.gov/FHSZ/	Moderate <input type="checkbox"/>	High <input type="checkbox"/>	Very High <input checked="" type="checkbox"/>	
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)	WIFA <input type="checkbox"/>			

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

CITY OF STOCKTON
Municipal (1621 Brookside Road) Fire Station 10100

WATERFLOW INFORMATION

Reporting Company: COMARITY ARCHITECTURE
Contact Name: MARY HICHTLER
Email: mh@comarity.net
Telephone/FAX: 916.261.8999
Mailing Address: 2797 Business Dr., Sacramento, CA 95833

Project Name: Livestock Facility Project
Project Location: 1621 Brookside Rd, Stockton CA 95207

Fire Department Dist #: 4053
Nearest Fire Hydrant: Brookside/McGaw
Water Main Size: 8"

Flow Data	Static Pressure	Residual Pressure	Discharge	Prior Flow	Flow Avail. @ 20'
5'-10'-20"	50	35	4"	17	1771
					2575

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122192 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

DSA APP. NO: 02-122192

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655



STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207


STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS		
No.	Description	Date

PROJECT No.: 2023-014.00
CONSTRUCTION DOCUMENTS

CODE ANALYSIS
AND SITE ACCESS

G1.1

<h2 style="margin: 0;">DOOR SIGN LEGEND</h2>	
<p>CONTRACTOR TO SUPPLY AND INSTALL THE FOLLOWING SIGNS AT THE LOCATIONS INDICATED ON THE DRAWINGS</p>	
S1	ROOM IDENTIFICATION WALL SIGN, SEE 5 / A17.1
S2	EXIT WALL SIGN, SEE 10 / A17.1
S3	RESTROOM DOOR SIGN, SEE 4 / A17.1
S4	NOT AN EXIT SIGN, SEE 15 / A17.1
S5	EXIT SIGN, SEE ELECTRICAL DRAWINGS
S8	RESTROOM WALL SIGN, SEE 3 / A17.1
S9	ROOM OCCUPANCY SIGN, SEE 14 / A17.1
S11	ASSISTED LISTENING SYSTEM (ALS) SIGN, SEE 13 / A17.1
<h2 style="margin: 0;">FIRE EXTINGUISHER NOTES</h2>	
FE	<p>5 LB UL LISTED DRY-CHEMICAL FIRE EXTINGUISHER, MINIMUM DESIGNATION TO BE 4A 40B/C. PROVIDE WALL MOUNTING BRACKET, HANDLE AT 48" A.F.F.</p> <p>PROVIDE SIGN PER DETAIL 6 / A17.1</p>
	
<p>CONTRACTOR TO ENSURE NO FIRE EXTINGUISHER IS FURTHER THEN 75'-0" WALKING RADIUS TO ANY POINT IN THE BUILDING.</p>	
<h2 style="margin: 0;">CODE ANALYSIS</h2>	
<p>(E) INDUSTRIAL ARTS WORK K : (E) OCCUPANCY : (E) CONSTRUCTION TYPE :</p>	<p>CLASSROOMS E V-B NON- SPRINKLERED</p>
<p>NO CHANGE TO USE OF (E) SPACE</p>	

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT			
APP: 02-122192 INC.			
REVIEWED FOR			
SS <input checked="" type="checkbox"/>	FLS <input checked="" type="checkbox"/>	ACS <input checked="" type="checkbox"/>	
DATE: 06/27/2024			

DSA APP. NO: 02-122192



**COMMUNITY
ARCHITECTURE**

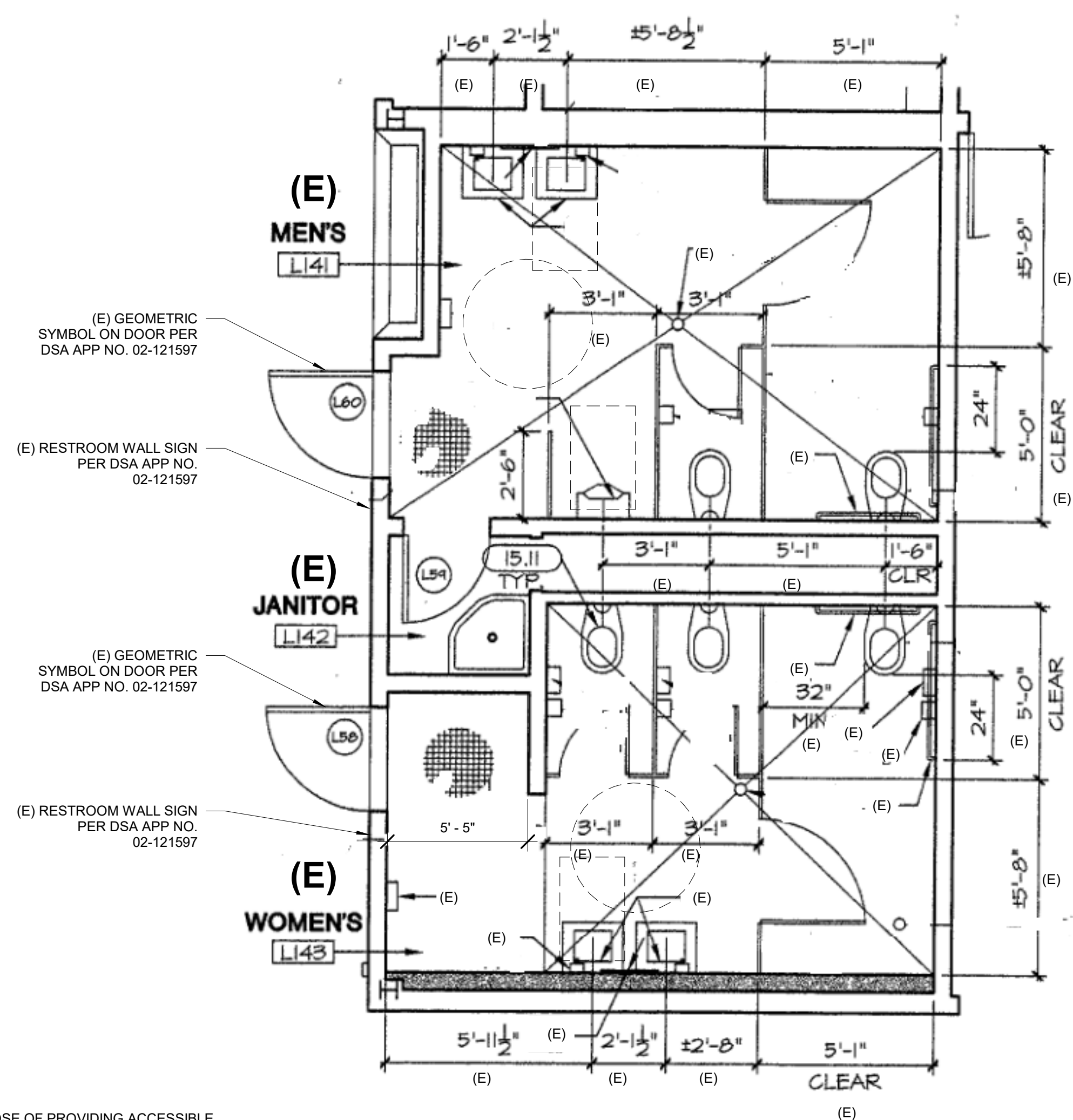
**3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655**



AG SHOP FLOOR CODE PLAN

$$1/16'' = 1'-0''$$

2



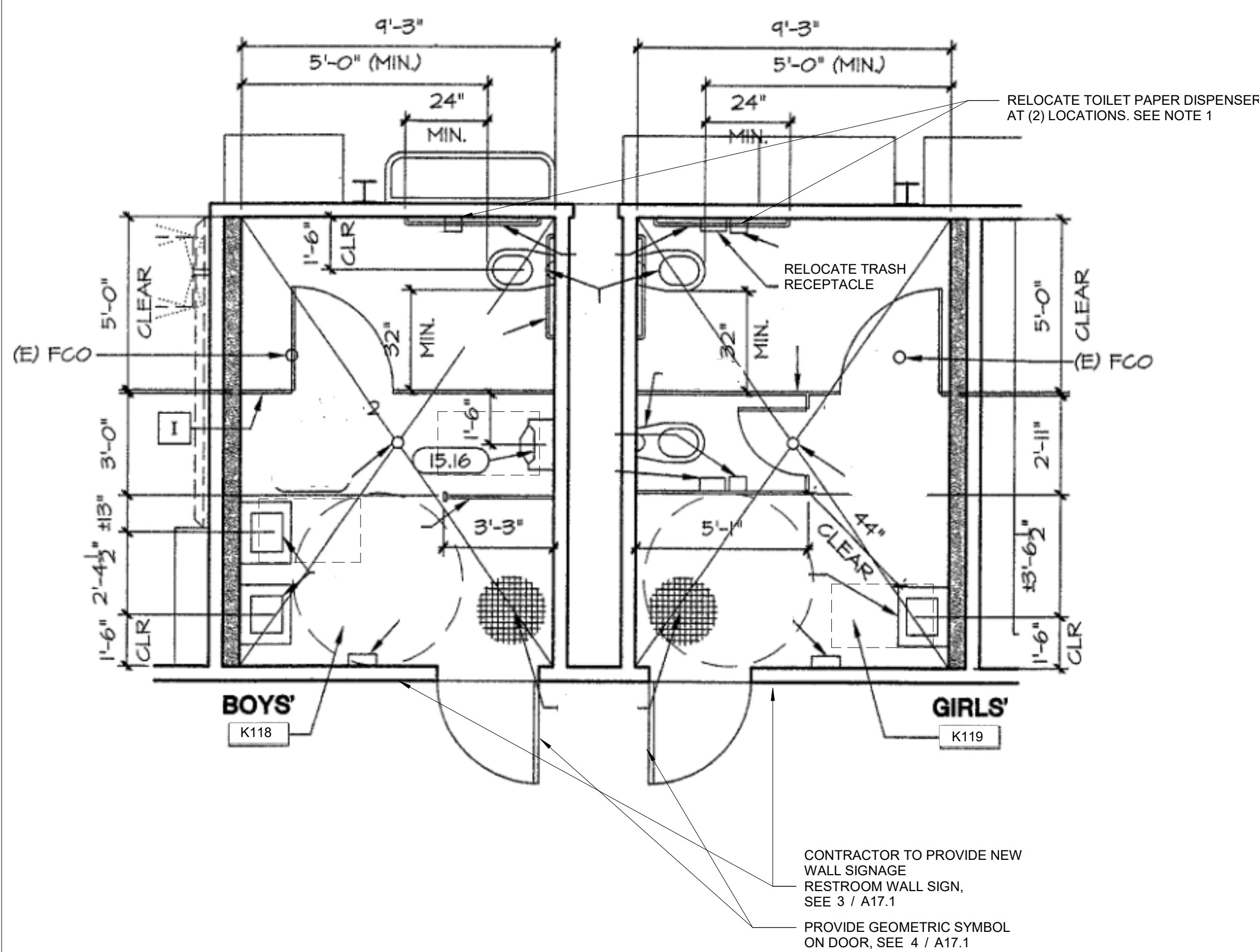
NOTE:

1. THIS FLOOR PLAN IS AN EXCERPT FROM DSA A#02-101973; AND IS SHOWN FOR THE SOLE PURPOSE OF PROVIDING ACCESSIBLE COMPLIANCE INFORMATION. TOILET ROOMS ARE EXISTING. ALL DIMENSIONS SHOWN ARE EXISTING.
2. REFER TO TYPICAL MOUNTING HEIGHTS DETAIL SHEET A17.1

(E) STAFF ACCESSIBLE RESTROOMS A# 02-101973

$$1/4" = 1'-0"$$

7



NOTES:

1. CONTRACTOR TO CORRECT LOCATION FOR TOILET PAPER DISPENSER TO COMPLY WITH CURRENT BUILDING CODE. (E) TOILET PAPER DISPENSER SHOULD BE LOCATED 7" TO 9" FROM THE FRONT OF THE TOILET TO CENTER LINE OF TOILET PAPER
2. THIS FLOOR PLAN IS AN EXERPT FROM DSA #002-101973 , AND IS SHOWN FOR THE SOLE PURPOSE OF PROVIDING ACCESSIBLE COMPLIANCE INFORMATION. TOILET ROOMS ARE EXISTING. ALL DIMENSIONS SHOWN ARE EXISTING.

(E) ACCESSIBLE RESTROOMS A#02-101973

$$1/4'' = 1'-0''$$

6

EXIT ANALYSIS

EXIT SIZING CBC 1005.3.2: 0.2 INCH PER OCCUPANT

NUMBER OF EXITS CBC 1006.2.1: (2) EXITS OR EXIT ACCESS
PATHWAYS SHALL BE PROVIDED
WHERE THE DESIGN OCCUPANT LOAD
FOR E CUPANCY IS EXCEEDED PER TAB
1006.2.1


PROVIDED: (2) EXIT - ALL EXITS ARE
ACCESSIBLE MEANS OF EGRESS

SEE INDIVIDUAL EXITS FOR EXIT WIDTH CALCULATIONS

**OCCUPANT LOAD FACTORS PER CBC TABLE 1004.5 - MAXIMUM FLOOR AREA
ALLOWANCES PER OCCUPANT**

CLASSROOMS - AREA PER OCCUPANT 50 SF

AG SHOP CLASSROOM 2,881 SF / 50SF = 58 OCC



55 S LINCOLN STREET

STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL

AGRICULTURAL MECHANICS SHOP

RENOVATION

1621 BROOKSIDE ROAD

STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

No.	Description	Date

PROJECT No.:

2023-014.00

CONSTRUCTION DOCUMENTS

EXITING AND OCCUPANCY

PLAN AND CODE

REVIEW

G2.1

ABBREVIATIONS	
NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.	
AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
ASB	AGGREGATE SUB-BASE
BO	BLOW-OFF VALVE
BV	BUTTERFLY VALVE
BW	BACK OF WALK
C/L	CENTERLINE
CB	CATCH BASIN
CJ	CONTROL JOINT
CL	CLASS
CMP	CORRUGATED METAL PIPE
CATV	CABLE TELEVISION
CO	CLEANOUT
CONC.	CONCRETE
CONST.	CONSTRUCT
CR	CURB RETURN
CS	CONCRETE SURFACE
DC	DOUBLE CHECK VALVE
DDC	DOUBLE DETECTOR CHECK VALVE
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
DS	DOWNSPOUT
E	ELECTRIC
EJ	EXPANSION JOINT
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EX	EXISTING
FS	FIRE SERVICE LINE
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOWLINE
FM	SANITARY SEWER FORCE MAIN
FF	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
GB	GAS
GR	GRATE ELEVATION
GRD	GRADE ELEVATION
GV	GATE VALVE
HB	HOSE BIB
HBD	HEADER BOARD
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
INV	PIPE INVERT ELEVATION
JP	JOINT UTILITY POLE
LF	LIP OF GUTTER
LT	LEFT
MS	MOWSTRIP
NTS	NOT TO SCALE
OH	OVERHEAD
PAD	BUILDING PAD
PCC	PORTLAND CEMENT CONCRETE
PD	PLANTER DRAIN
PIV	POST INDICATOR VALVE
P/L	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R	RADIUS
RIM	MANHOLE RIM ELEVATION (SOLID COVER)
RP	REDUCED PRESSURE BACKFLOW PREVENTER
RW	RIGHT OF WAY
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SG	SUBGRADE ELEVATION
SP	FIRE SPRINKLER SERVICE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
S/W	SIDEWALK
T	TELEPHONE
TC	TOP OF CURB
TD	TRENCH DRAIN
TDCB	TRENCH DRAIN CATCH BASIN
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
TSW	TOP OF SEAT WALL
TW	TOP OF WALK ELEVATION
U	UTILITY
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VCP	VITRIFIED CLAY PIPE
W	WATER
W/	WITH
W/O	WITHOUT
WV	WATER VALVE

LEGEND	
NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.	
PROPOSED GRADING & DRAINAGE SYMBOLS:	
	8" SD STORM DRAIN LINE (SIZE AND FLOW SHOWN)
	STORM DRAIN MANHOLE (SDMH)
	CATCH BASIN (CB)
	DROP INLET (DI)
	AREA DRAIN (AD)
	PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
	STORM DRAIN CLEANOUT
	ELEVATION
	FF=100.00 FINISHED FLOOR ELEVATION
	PAD=99.33 BUILDING PAD ELEVATION
	CONCRETE SIDEWALK
	GRADED DIRECTION FOR DRAINAGE FLOW
	SLOPE
	TREE TO BE REMOVED
	RETAINING WALL
PROPOSED SANITARY SEWER SYMBOLS:	
	6" SS SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
	SANITARY SEWER MANHOLE (SSMH)
	SEWER CLEANOUT FLUSHER BRANCH
PROPOSED WATER SYMBOLS:	
	8" W WATER LINE & SIZE
	8" FS FIRE LINE & SIZE
	8" DW DOMESTIC WATER LINE & SIZE
	8" RW RECLAIMED WATER LINE & SIZE
	8" IRR IRRIGATION SERVICE LINE & SIZE
	8" NP NOT POTABLE WATER LINE & SIZE
	8" SP FIRE SPRINKLER SERVICE LINE & SIZE
	GATE VALVE
	WATER METER
	FIRE HYDRANT ASSEMBLY
	FIRE DEPARTMENT CONNECTION
	DETECTOR CHECK VALVE
	DOUBLE DETECTOR CHECK VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER
	BUTTERFLY VALVE
	AIR RELEASE VALVE + SIZE
	BLOW-OFF VALVE + SIZE
	POST INDICATOR VALVE

- GENERAL NOTES
- 811

Know what's below.
Call before you dig.

1.

THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.

2.

WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.

3.

IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.

4.

CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

5.

THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.

6.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE NECESSARY PRE-CONSTRUCTION SITE REVIEWS TO DETERMINE NECESSARY MEANS AND METHODS TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS.

7.

WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

8.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.

9.

IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.

10.

NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.

11.

SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.

12.

ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.

13.

CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.

14.

EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.

15.

EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.

16.

NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.

17.

WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.

18.

ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.

19.

ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.

20.

3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB CONSTRUCTION.

21.

SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.

22.

ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDROSEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.

23.

REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

24.

AT LIMITS OF NEW PAVEMENT OR CURBS ADJACENT TO LANDSCAPING PROVIDE A 4:1 MINIMUM TRANSITION TO EXISTING GRADE WITH TOPSOIL. ADJUST EXISTING IRRIGATION HEADS TO FINISH GRADE AND PROVIDE SOD IN GRASS AREAS TO RESTORE TO EXISTING CONDITION.

25.

WITHIN LIMITS OF WORK THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ARCHITECT FOR DIRECTION.

26.

GENERAL CONTRACTOR IS REQUIRED TO HIRE A LANDSCAPE SUBCONTRACTOR TO PERFORM ALL LANDSCAPE AND IRRIGATION REPAIRS.

27.

ALL TRANSITIONS TO EXISTING PAVEMENT SHAL BE A SMOOTH AND LEVEL TRANSITION.

28.

WIDTH OF NEW SIDEWALKS SHALL MATCH WIDTH OF EXISTING, ADJACENT, SIDEWALKS.

29.

SEE ARCHITECTURAL PLANS FOR EXPANSION AND CONTROL JOINT LAYOUT.

30.

ADJUST TO FINISH GRADE ALL UTILITY BOXES, FRAMES, COVERS SLEEVES, POST HOLES GRATES, ETC. FOUND IN AREA OF WORK, WHETHER SHOWN OR NOT. CLEAN OR REPLACE AS NECESSARY TO ENSURE PROPER SEATING.

31.

FOR ACCESSIBLE PATH OF TRAVEL REQUIREMENTS SEE ARCHITECTURAL SHEETS.

32.

PERCENT OF SLOPE SHOWN ON ARROWS ARE MAXIMUM SLOPES AND NOT INTENDED TO SUPERCEDE SLOPES 0.0% MAX. DEFINED BY SPOT ELEVATIONS.

33.

WITHIN THE LIMITS OF ACCESSIBLE PARKING AREA AND ACCESSIBLE DROP OFF ZONE THE SLOPE OF PAVEMENT SHALL NOT EXCEED 1.8% IN ANY DIRECTION.

34.

TRANSITIONS BETWEEN CONCRETE AND OR ASPHALT SURFACES SHALL BE FLUSH, UNLESS NOTED OTHERWISE BY CURB OR STEP.

35.

TRANSITION BETWEEN PAVED SURFACES AND LANDSCAPE AREAS SHALL BE NO GREATER THAN 1", UNLESS NOTED OTHERWISE.

36.

THE MINIMUM SLOPE AWAY FROM THE BUILDING ON PAVED SURFACES SHALL BE 1%.
- | SHEET INDEX | |
|-------------|--|
| C0.1 | CIVIL COVER SHEET |
| C1.1 | DEMOLITION, GRADING, DRAINAGE, AND PAVING PLAN |
| C3.1 | DETAILS |
- IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122192 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024
- DSA APP. NO: 02-122192

COMMUNITY
ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655
- REGISTERED ARCHITECT
ANTHONY J. TASSANO
No. C32876
03/31/17
STATE OF CALIFORNIA
- REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
No. C74586
03/31/17
STATE OF CALIFORNIA

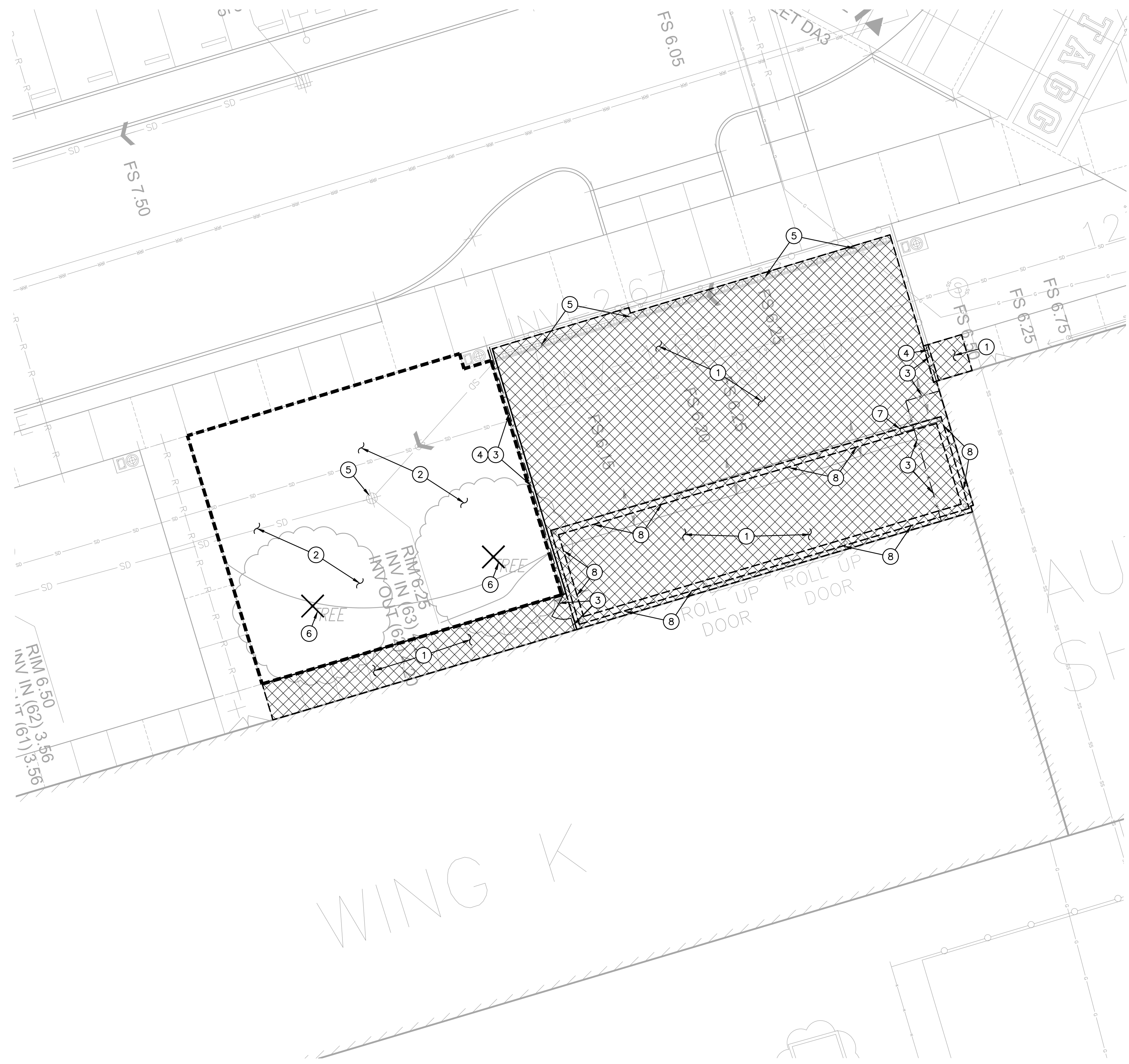
WARREN CONSULTING ENGINEERS, INC.
1117 MANFRED WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 965-1670
- SUSD
- 56 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH
SCHOOL
AGRICULTURAL
MECHANICS SHOP
RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL
DISTRICT
- | REVISIONS | | |
|-----------|-------------|------|
| No. | Description | Date |
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|------------------------|-------------|
| PROJECT No.: | 2023-014.00 |
| CONSTRUCTION DOCUMENTS | |
- COVER SHEET

C0.1
- FILENAME: I:\23-193\CIVIL\DWG\23-193 C0.1.DWG



DEMOLITION PLAN

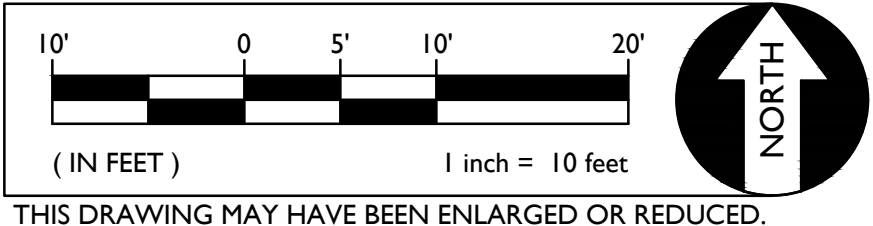
DEMOLITION GENERAL NOTES

- REFER TO ARCHITECTURAL, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL DEMOLITION ITEMS.
- IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.
- SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND THE NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.
- PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.
- WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

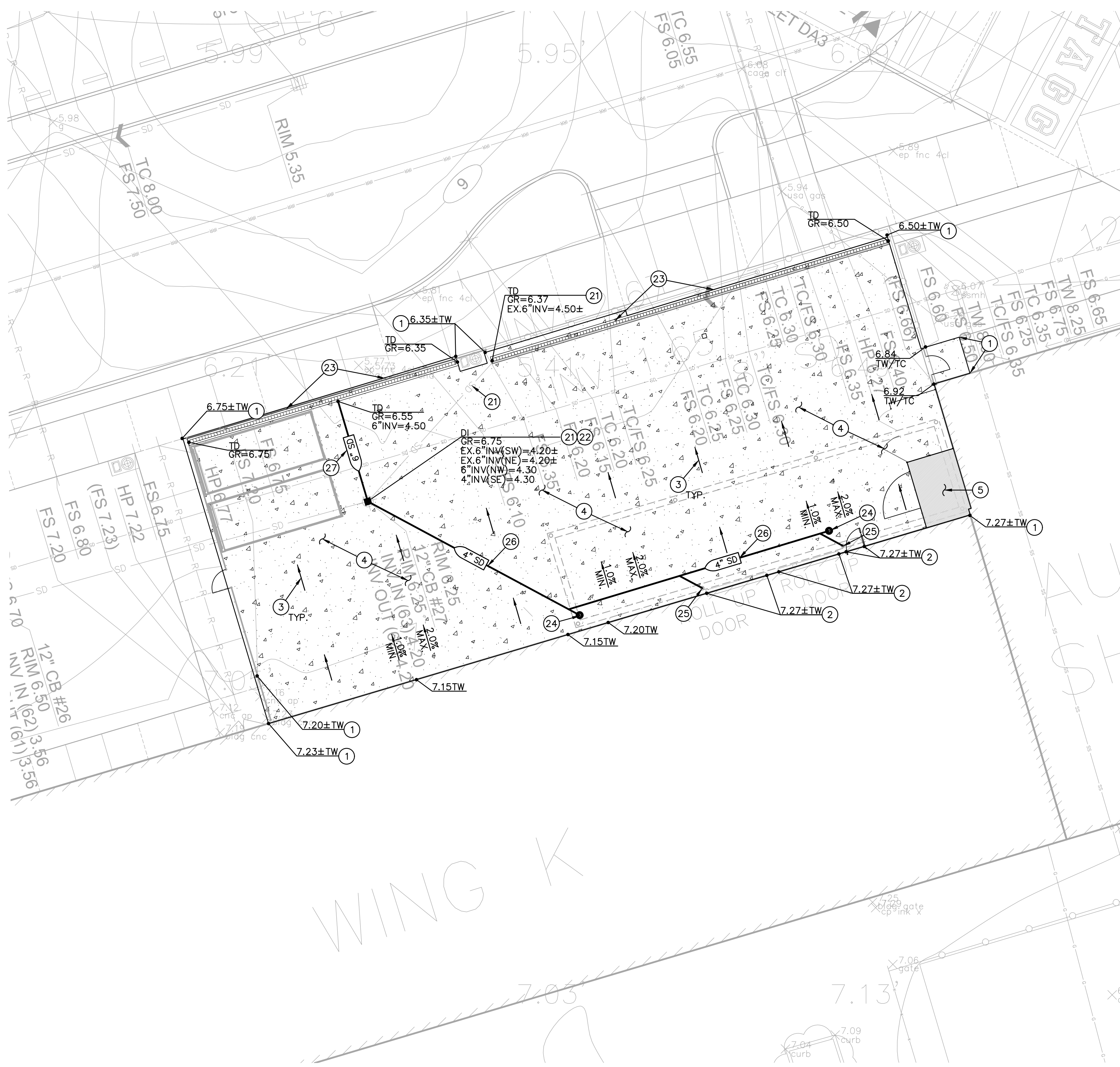
DEMOLITION NOTES

- SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED. COORDINATE WITH STRUCTURAL DRAWING SZ.0.
- REMOVE AND DISPOSE OF EXISTING IRRIGATION SYSTEM. CLEAR, GRUB AND REMOVE EXISTING VEGETATION.
- REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE, POSTS AND ASSOCIATED FOOTINGS TO EXTENT SHOWN.
- REMOVE AND DISPOSE OF EXISTING CONCRETE BAND.
- REMOVE AND DISPOSE OF EXISTING DRAIN STRUCTURE.
- REMOVE AND DISPOSE OF EXISTING TREE AND ASSOCIATED ROOTS
- REMOVE AND DISPOSE OF EXISTING CMU WALL AND ASSOCIATED FOOTING.
- EXISTING CANOPY GRADE BEAM TO BE PARTIALLY DEMOLISHED WHILE PRESERVING REBAR PER STRUCTURAL PLANS. CONTRACTOR TO CONFIRM GRADE BEAM LOCATION.

GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.



GRADING, DRAINAGE AND PAVING PLAN

PAVING GENERAL NOTES:

- ASPHALT MIX SHALL MEET CALTRANS SPECIFICATIONS FOR TYPE B ASPHALTIC CONCRETE. REFERENCE CALTRANS AND PROJECT SPECIFICATIONS.
- AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE.
- ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
- RECYCLED ASPHALT MAY BE USED AS CONCRETE AND ASPHALT BASE MATERIAL PROVIDED IT MEETS CITY OF SACRAMENTO SPECIFICATIONS FOR CLASS II AB.
- PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, AND COMPACTION SHALL BE PERFORMED AFTER:
- POT HOLE ALL EXISTING UTILITIES.
- THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
- ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, SHALL BE RESTORED.
- REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
- ADJUST TO FINISH GRADE ALL BOXES, FRAMES, COVERS SLEEVES, POST HOLES, GRATES, ETC. FOUND IN NEW ASPHALT OR CONCRETE PAVING AREAS, WHICH ARE NOT NOTED FOR REMOVAL. CLEAN/OR REPLACE AS NECESSARY TO ENSURE PROPER SEATING.
- ALL NEW ASPHALT PAVING TO RECEIVE TWO APPLICATIONS OF SEAL COAT.

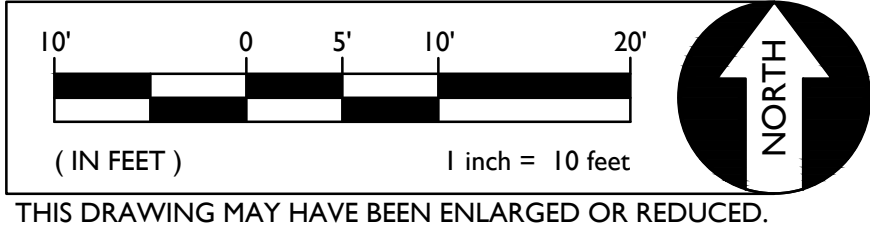
GRADING AND PAVING NOTES

- MATCH EXISTING GRADE/ELEVATION.
- MATCH EXISTING FINISH FLOOR GRADE/ELEVATION.
- GRADE UNIFORML. TOWARDS INLET OR SWALE.
- PLACE 6" PCC OVER WITH #4 REBAR @ 18" O.C.E.W. OVER 6" CLASS II AB ON SUBGRADE TREATED/COMPACTED PER SPECIFICATIONS.
- PLACE 8" PCC OVER WITH #4 REBAR @ 12" O.C.E.W. OVER 6" CLASS II AB ON SUBGRADE TREATED/COMPACTED PER SPECIFICATIONS.

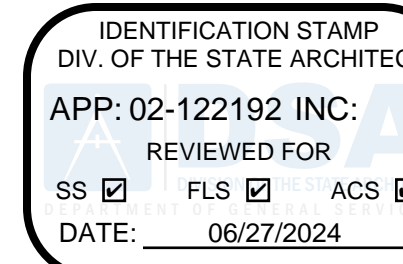
DRAINAGE NOTES

- CONNECT TO EXISTING STORM DRAIN LINE OR STRUCTURE. POT HOLE TO VERIFY DEPTH AND LOCATION PRIOR TO TRENCHING.
- CONSTRUCT DRAIN INLET PER.
- CONSTRUCT TRENCH PER.
- CONSTRUCT CLEANOUT PER.
- CONNECT TO EXISTING DOWNSPOUTS C. CONTRACTOR TO PROVIDE ALL FITTING REQUIRED TO MAKE CONNECTION.
- PLACE 4" STORM DRAIN PER.
- PLACE 6" STORM DRAIN PER.

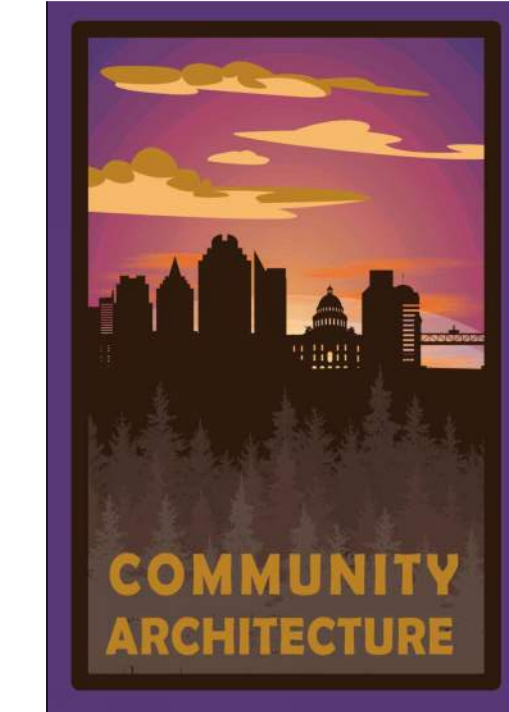
GRAPHIC SCALE



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55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL
AGRICULTURAL MECHANICS SHOP
RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

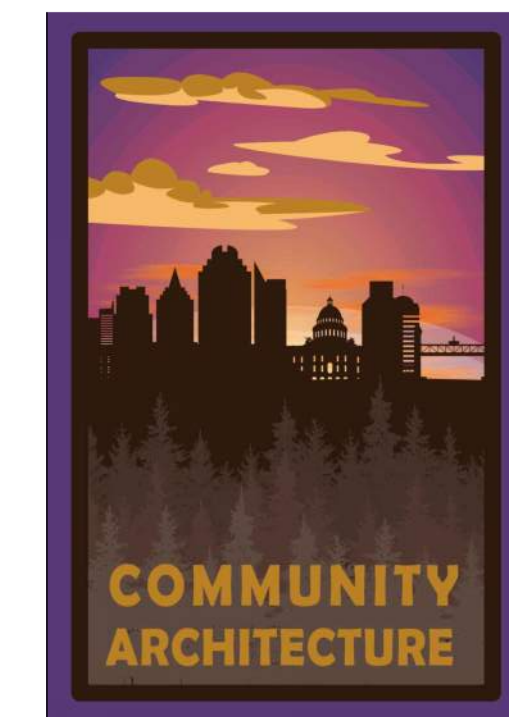
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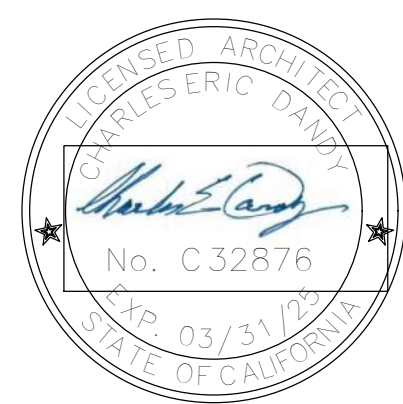
CONSTRUCTION DOCUMENTS

DEMOLITION,
GRADING,
DRAINAGE, AND
PAVING PLAN

C1.1



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STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

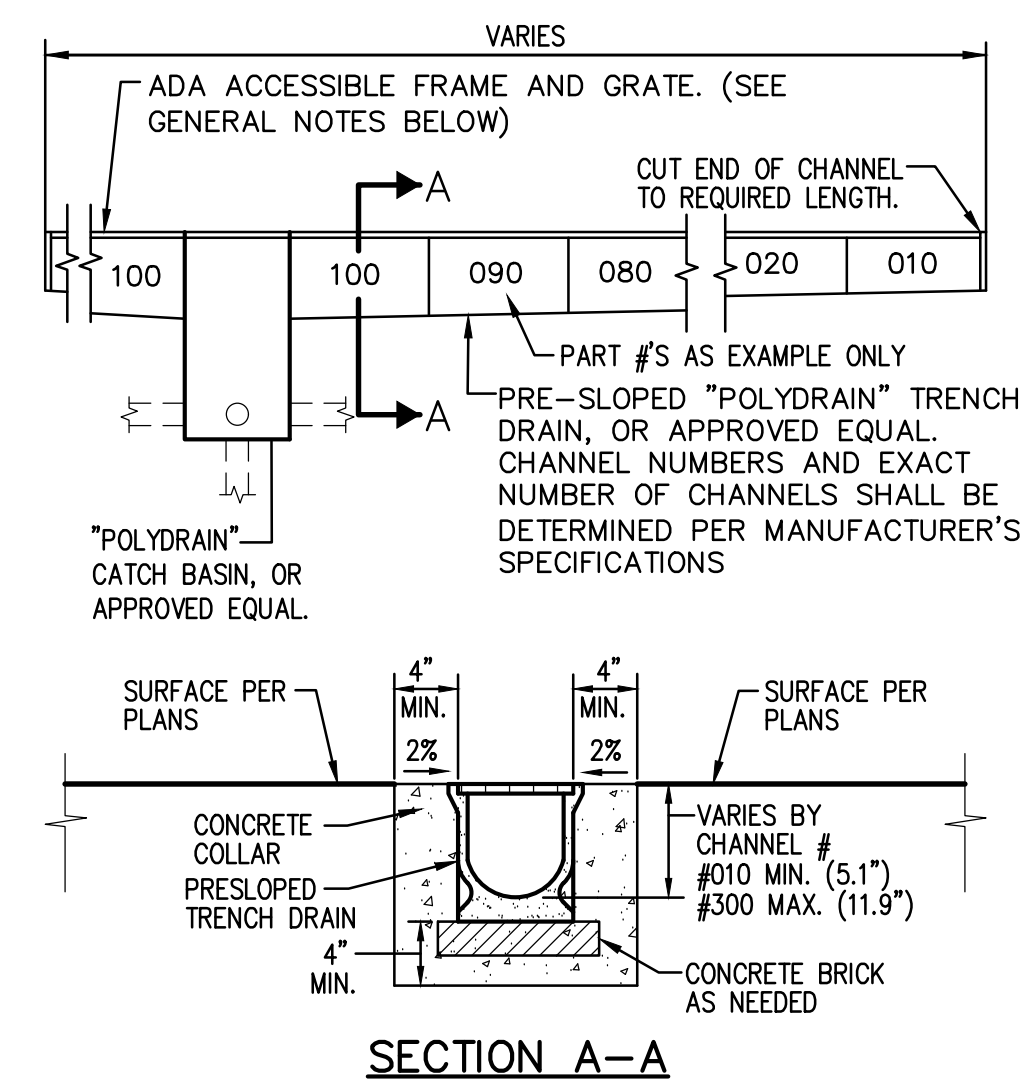
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PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

DETAILS

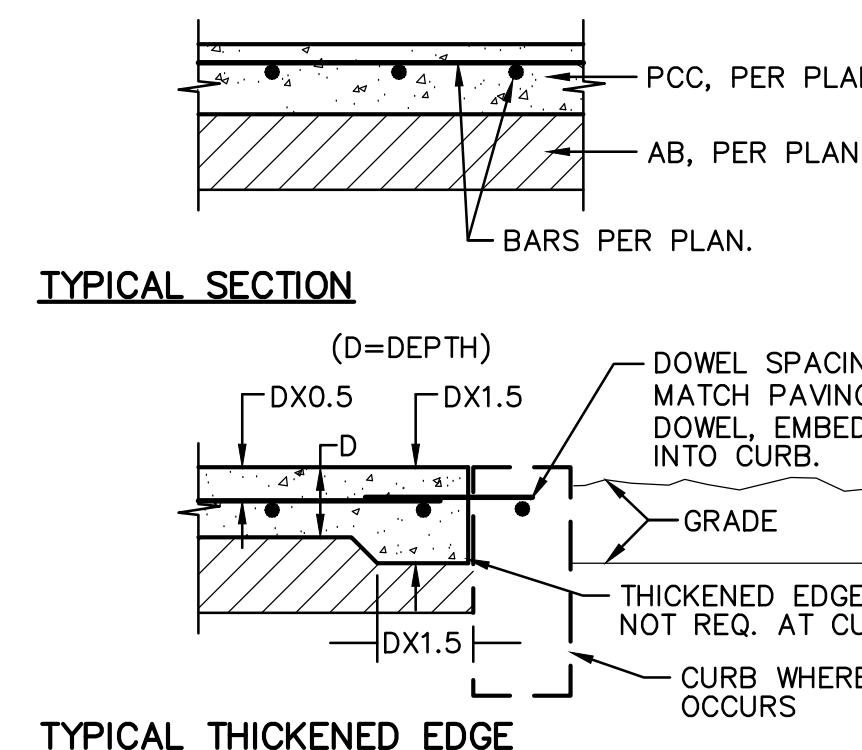
C3.1



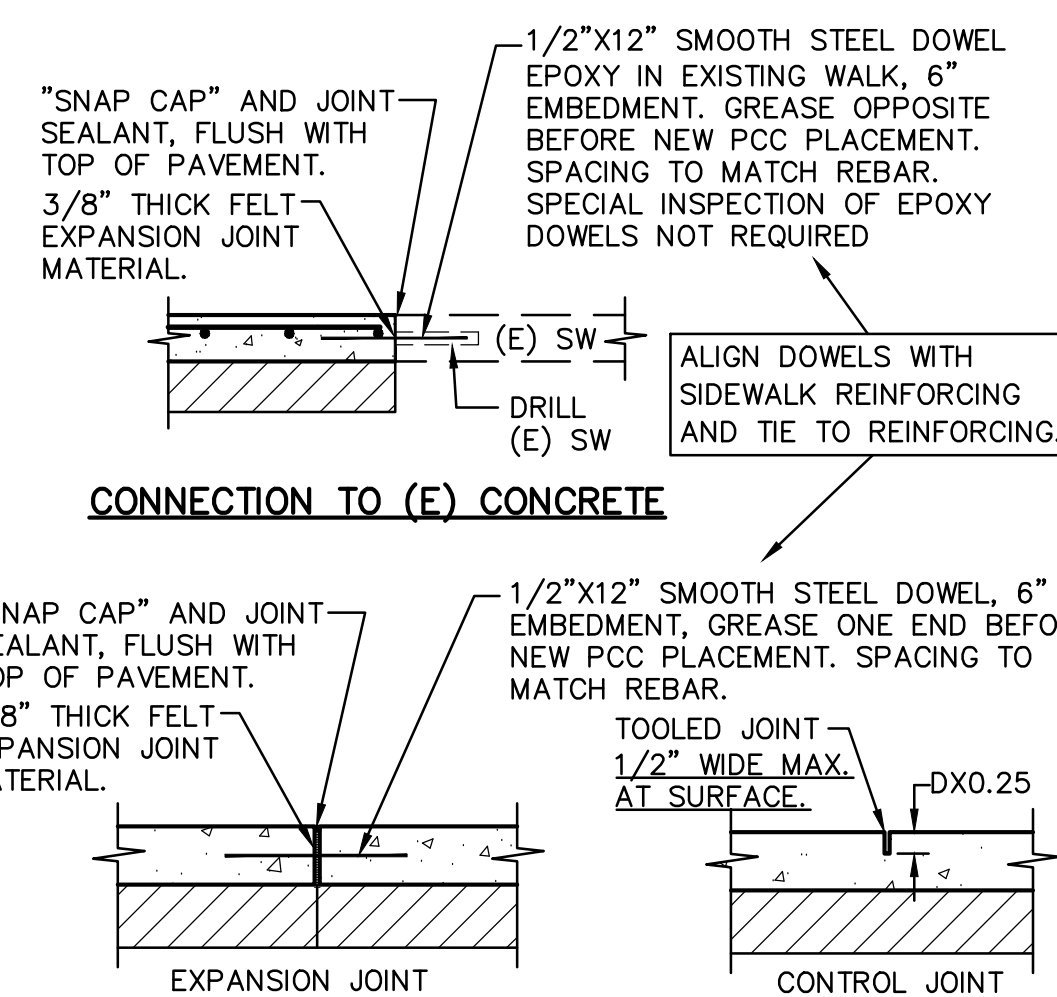
SECTION A-A

GENERAL NOTES:

1. GRATE SHALL ADD ACCESSIBLE, POLYDRYAN MODEL 2412 OR APPROVED EQUAL. IF PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE POLYDRYAN MODEL 2506.
2. IF TRENCH DRAIN IS PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE GALVANIZED STEEL "OVERLAY RAIS" AS SUPPLIED BY POLYDRYAN, OR APPROVED EQUAL.
3. CONTRACTOR SHALL FURNISH AND INSTALL A MODEL 2811B LOOKING DEVICE, OR APPROVED EQUAL, FOR ALL TRENCH DRAIN GRATES.
4. CONTRACTOR SHALL FURNISH AND INSTALL A TRASH BUCKET, MODEL 2900, IN ALL TRENCH DRAIN CATCH BASINS.
5. CONTRACTOR SHALL PURCHASE AND FURNISH THE MAINTENANCE/OPERATIONS DEPARTMENT OF THE SCHOOL WITH 2 MODEL 2231 TRENCH DRAIN SHOVEL HEADS, WITH STANDARD WOOD, OR COMPOSITE HANDLES.
6. ALL MITERED JOINTS SHALL BE SEALED WITH POLYDRYAN "POLYSEAL" CAULKING OR APPROVED EQUAL.



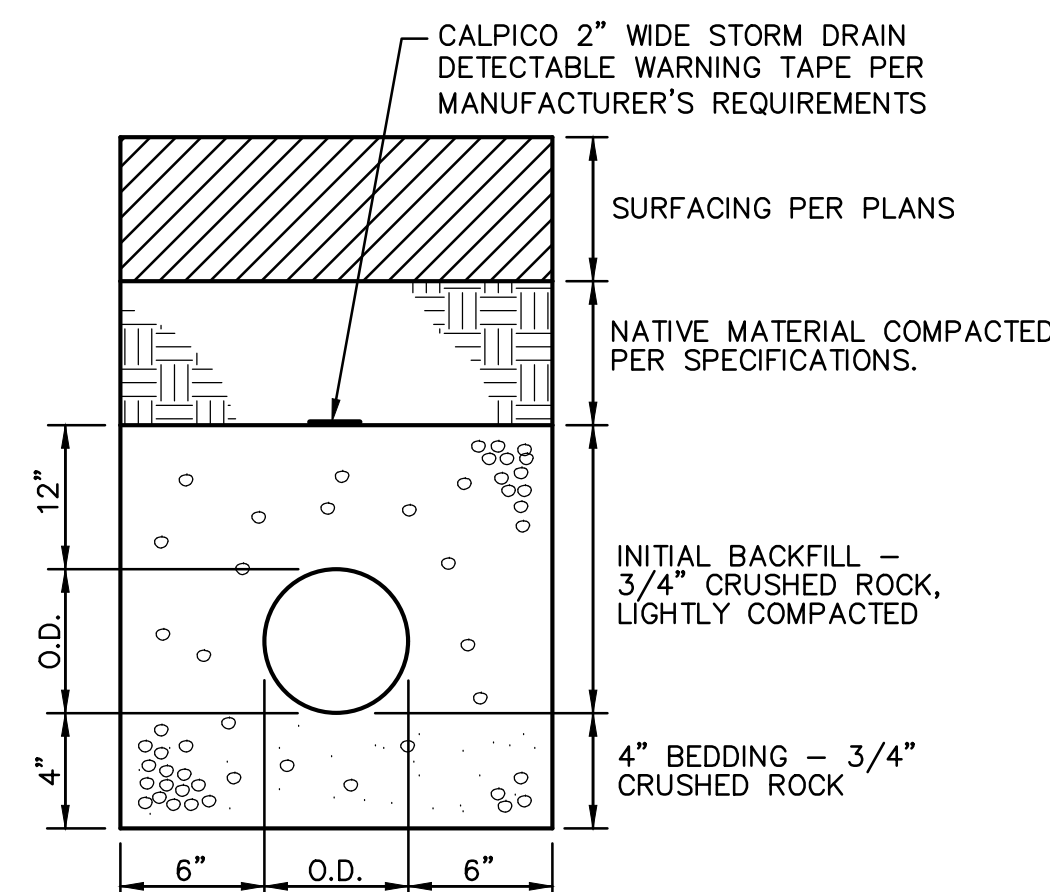
TYPICAL THICKENED EDGE



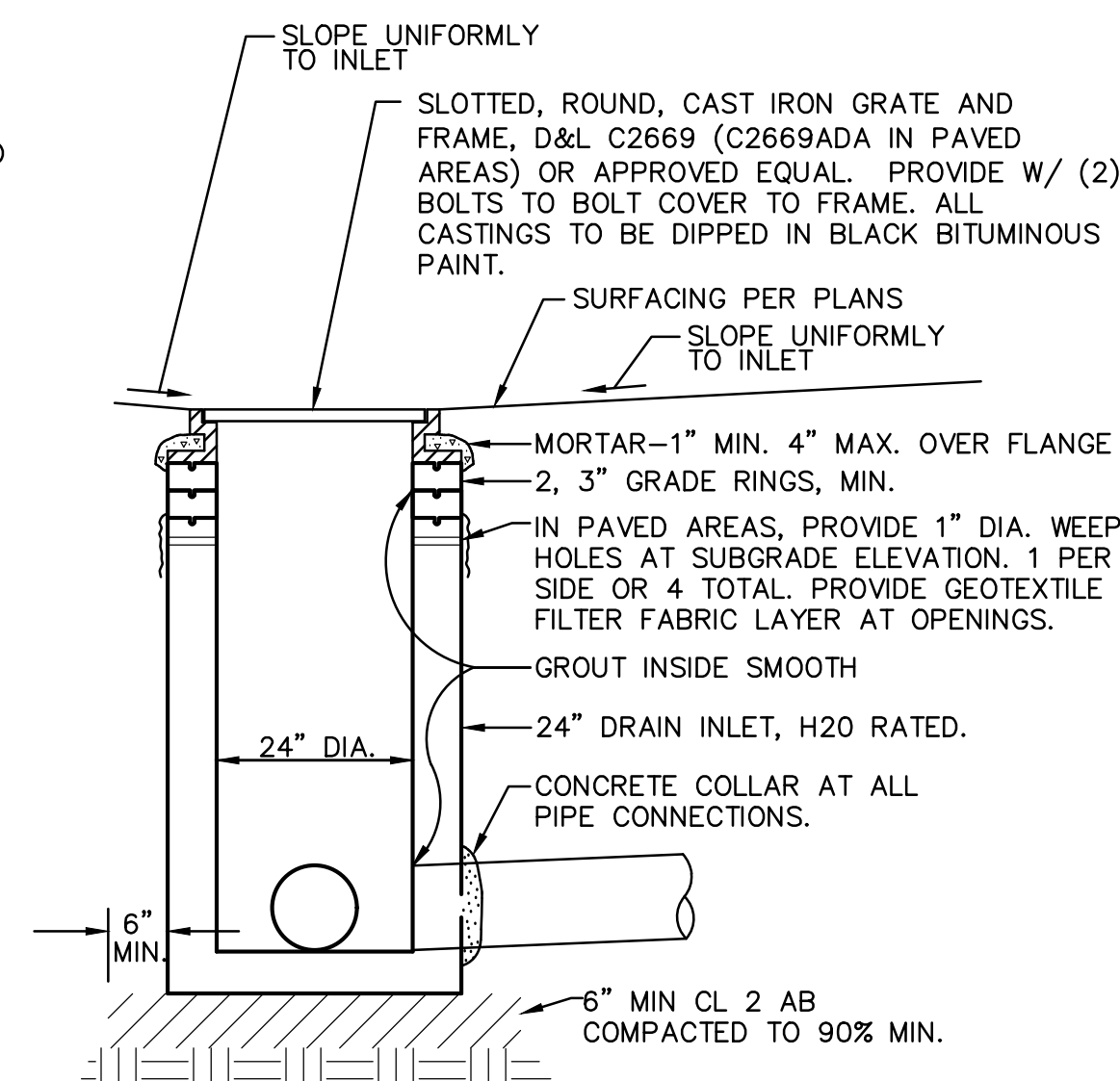
TYPICAL JOINTS

NOTES:

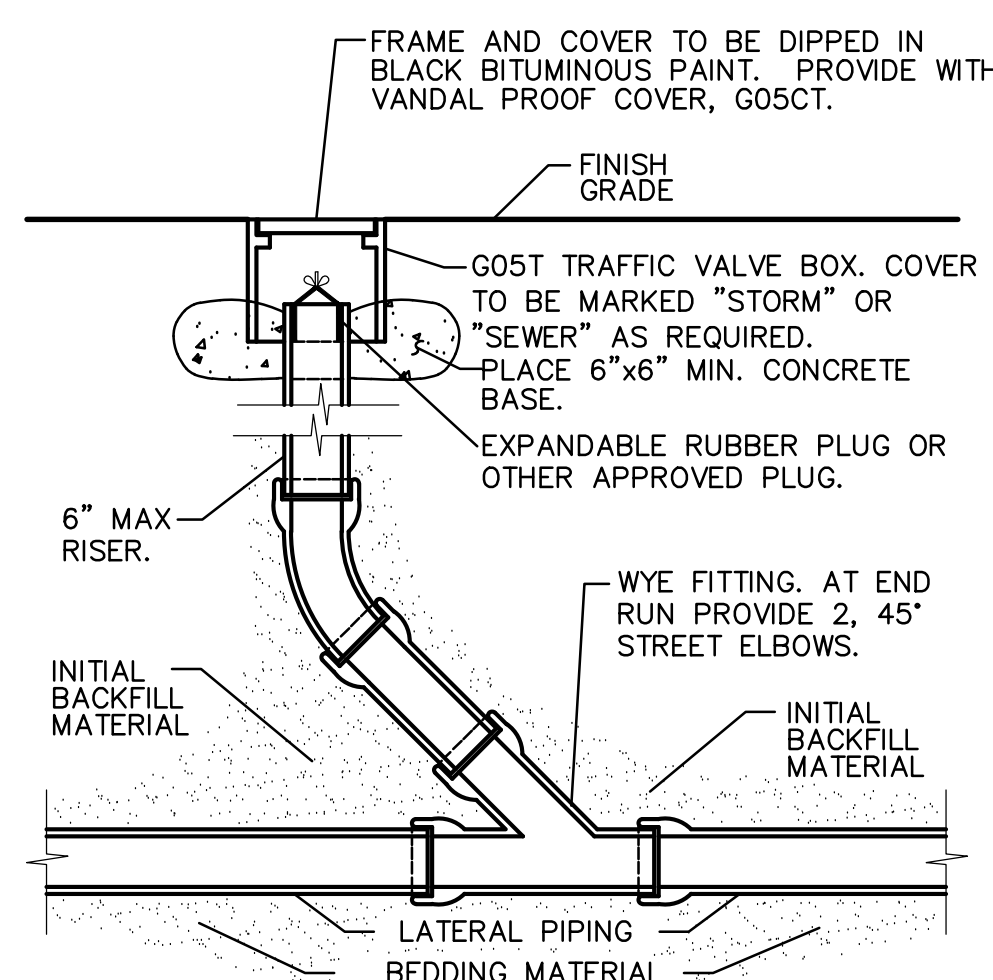
- NOTES:**
1. PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
 2. PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
 3. EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.



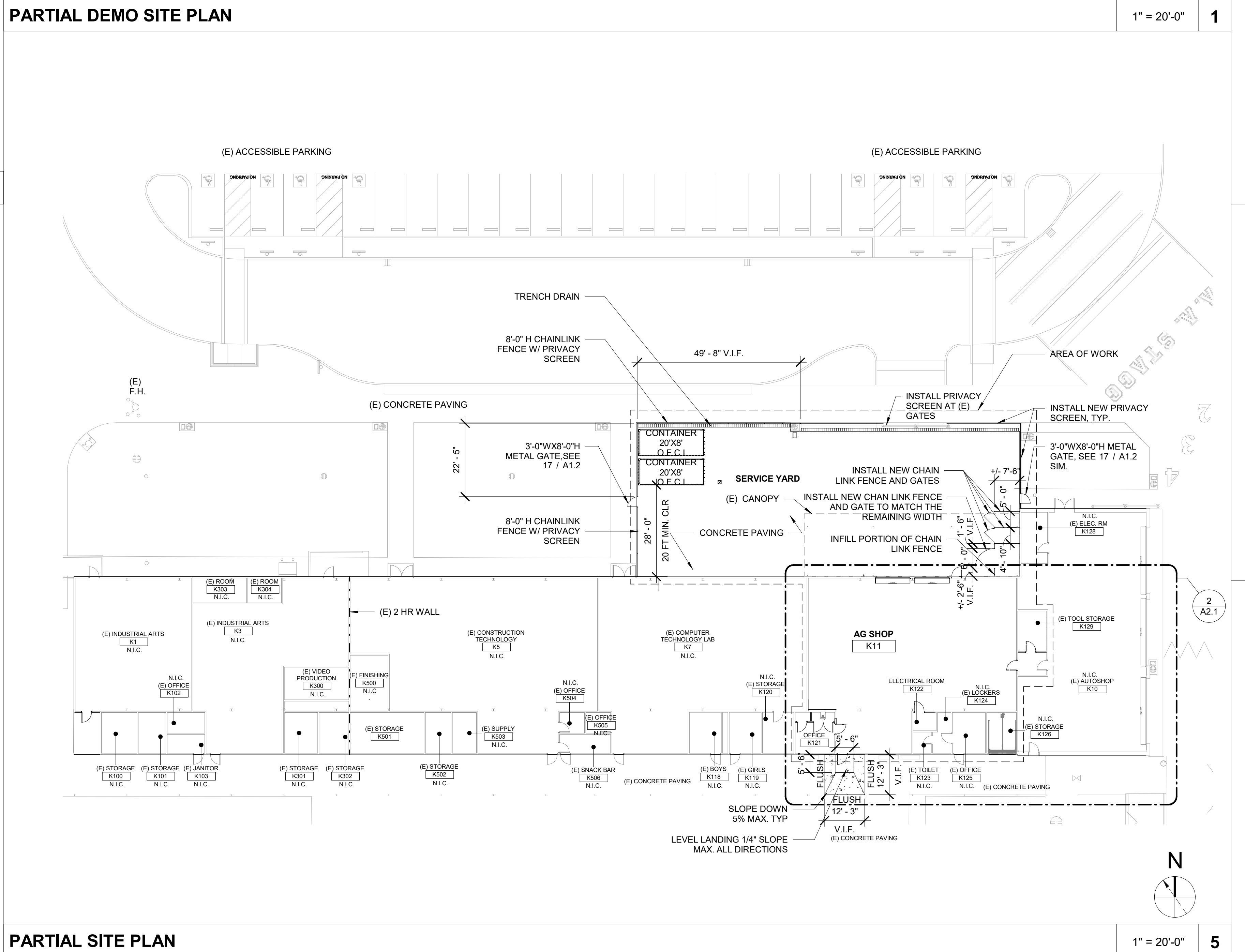
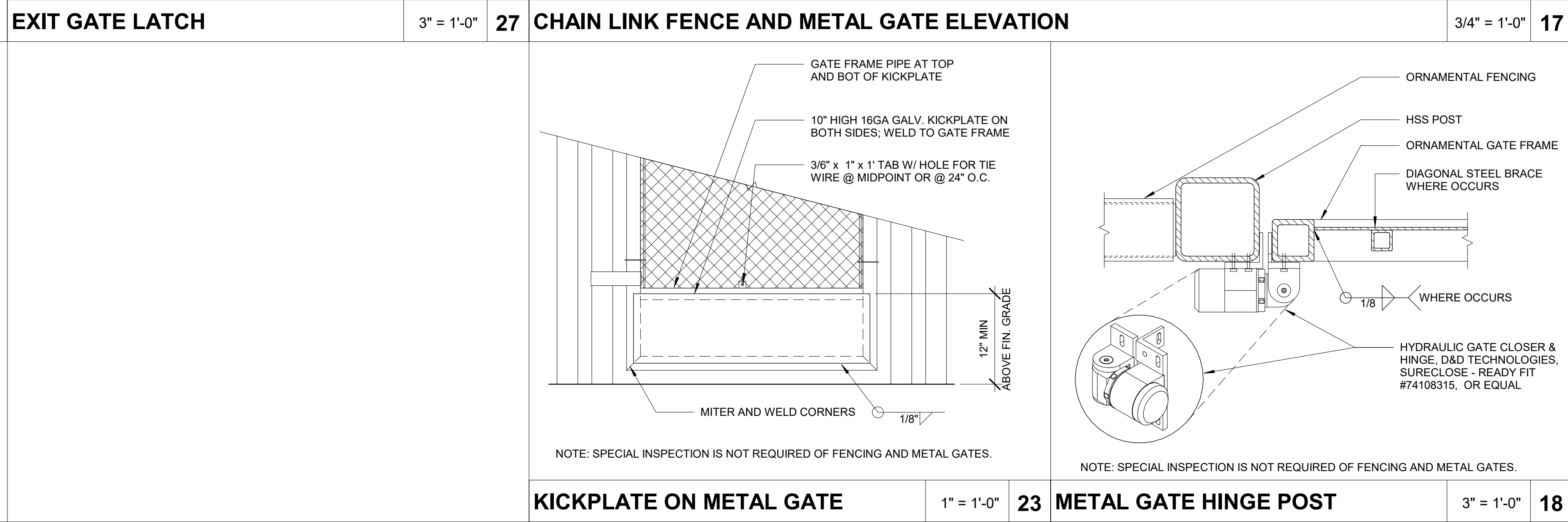
4 STORM DRAIN TRENCH
C3.1 NO SCALE



2 DROP INLET
C3.1 NO SCALE



5 CLEANOUT
C3.1 NO SCALE



ENLARGED SITE PLAN

1" = 20'-0"

7 ENLARGED DEMO SITE PLAN

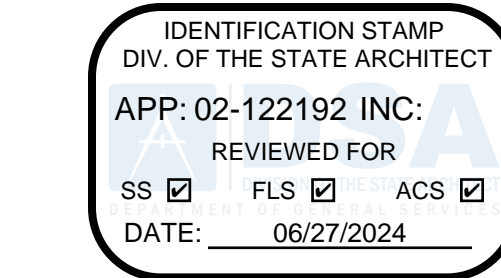
1" = 20'-0"

EGRESS METAL GATE

3/4" = 1'-0"

8 EXISTING DEMO EGRESS GATE

1/2" = 1'-0"



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**STAGG HIGH
SCHOOL
AGRICULTURAL
MECHANICS SHOP
RENOVATION**

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL
DISTRICT

REVISIONS

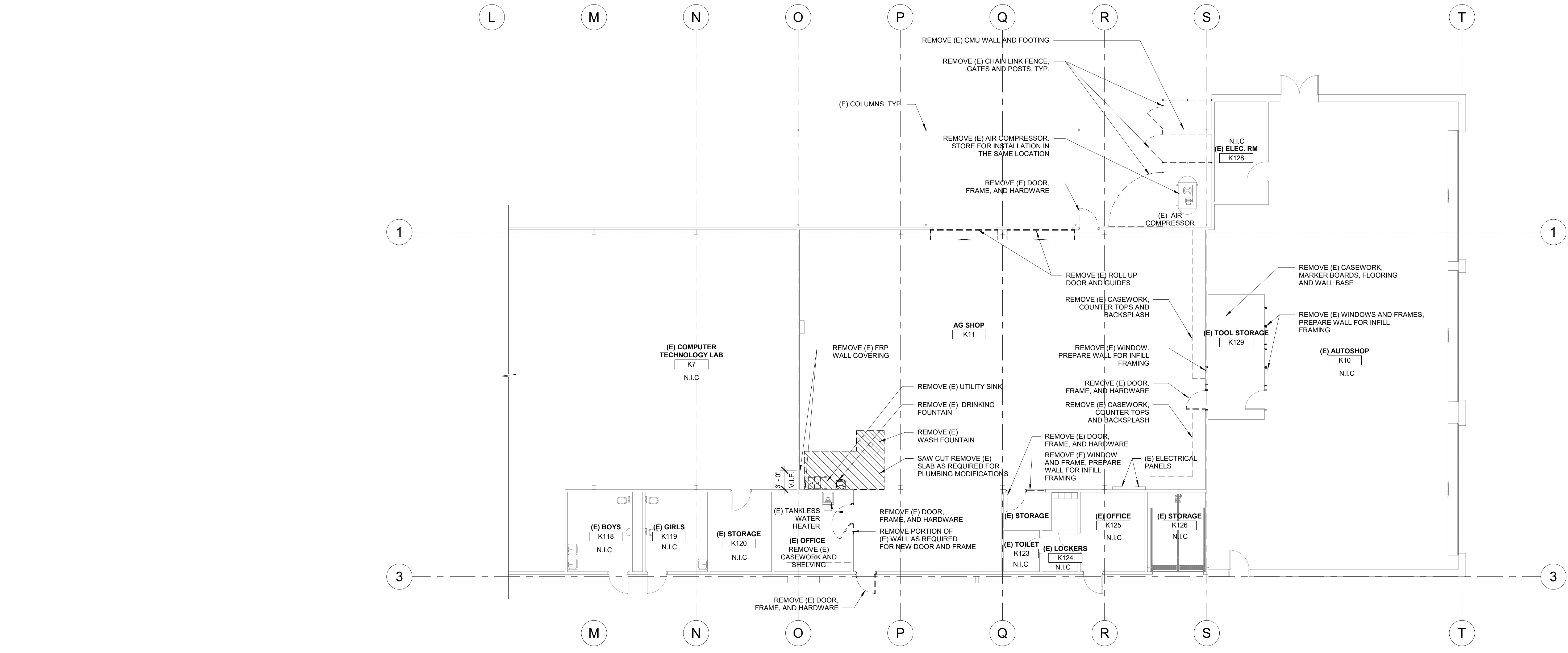
No.	Description	Date

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CONSTRUCTION DOCUMENTS

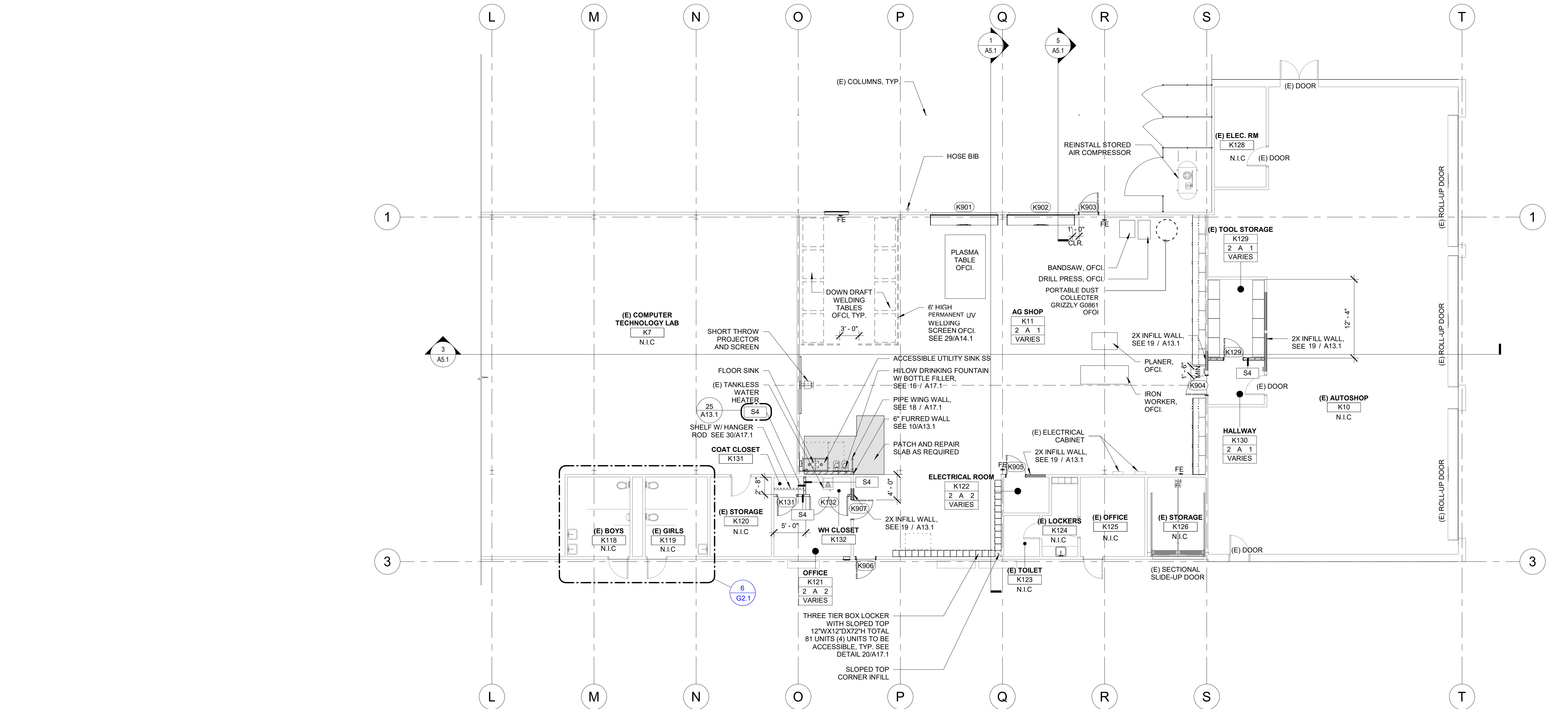
ENLARGED SITE
PLAN AND SITE
DETAILS

A1.3



DEMOLITION FLOOR PLAN

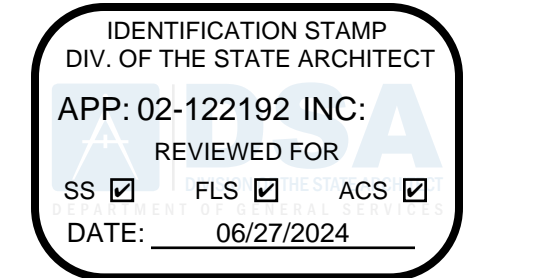
1/8" = 1'-0" 1



NEW FLOOR PLAN

1/8" = 1'-0" 2

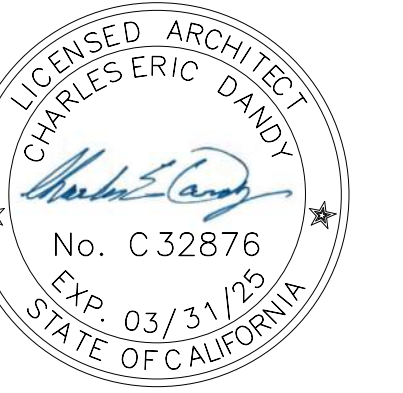
FINISH SCHEDULE		
REFERENCE ROOM DESIGNATION TAGS FOR FINISH CALL-OUTS		
FLOOR/BASE	WALL	CEILING
0 SEE PLAN	0 SEE PLAN	0 SEE RCP PLAN
1 EXISTING FLOOR AND BASE TO REMAIN	A (E) GYPSUM WALL BOARD TO REMAIN, PATCH, REPAIR, AND PAINT	1 (E) NAIL ON ACOUSTICAL TILE TO REMAIN, PATCH, REPAIR AND PAINT
2 (E) CONCRETE, CLEAN (E) CONC. FLOORS / RESILIENT BASE	B GYPSUM WALL BOARD TO BE REMOVED	2 (E) GYP. BOARD CLG. PATCH, REPAIR AND PAINT



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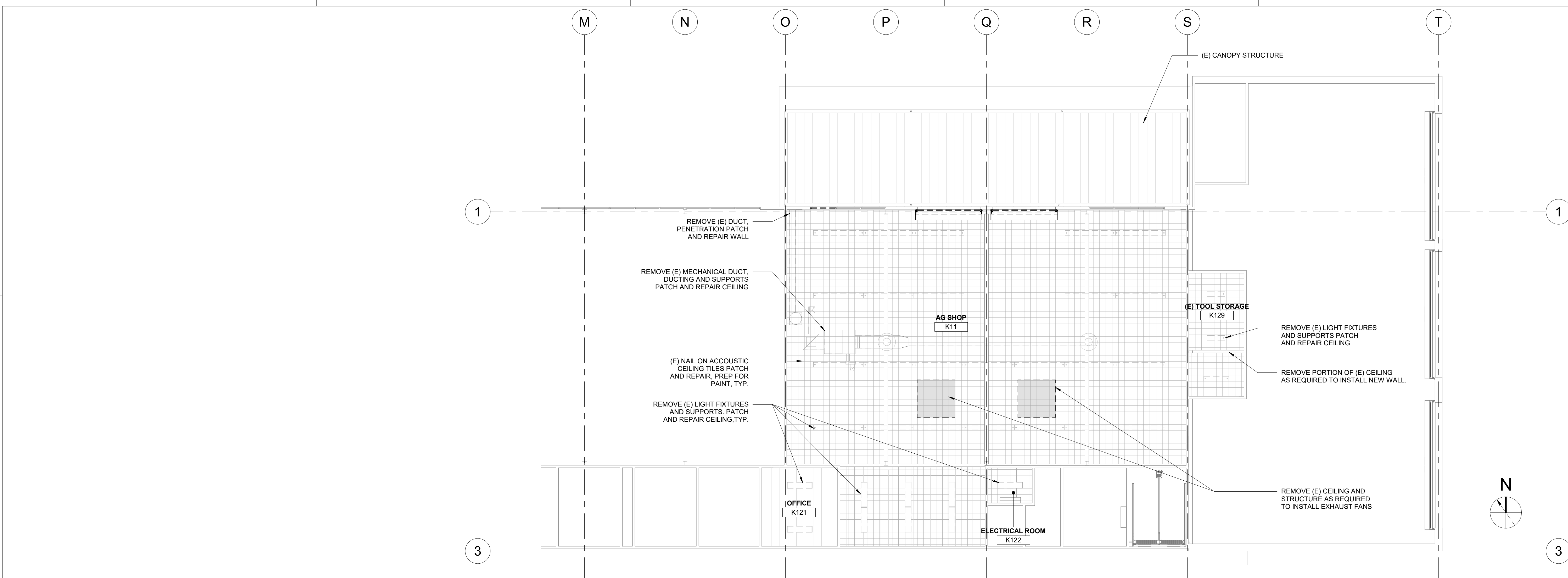
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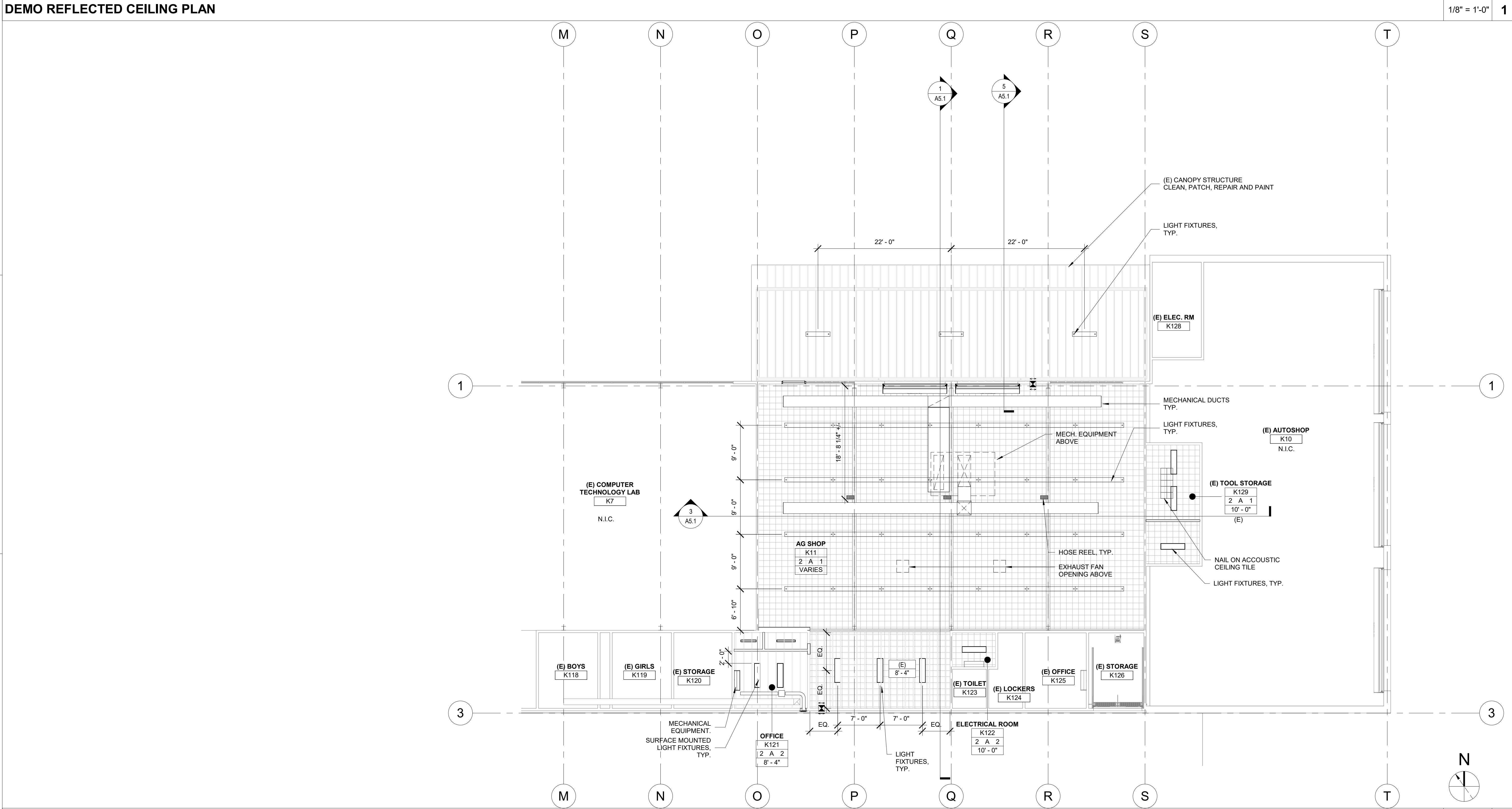
CONSTRUCTION DOCUMENTS

AG SHOP FLOOR PLANS

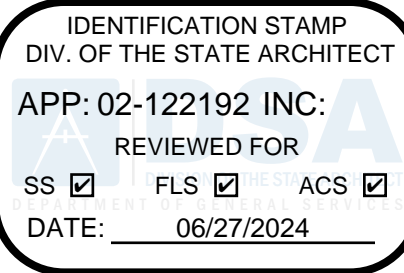
A2.1



DEMO REFLECTED CEILING PLAN



REFLECTED CEILING PLAN



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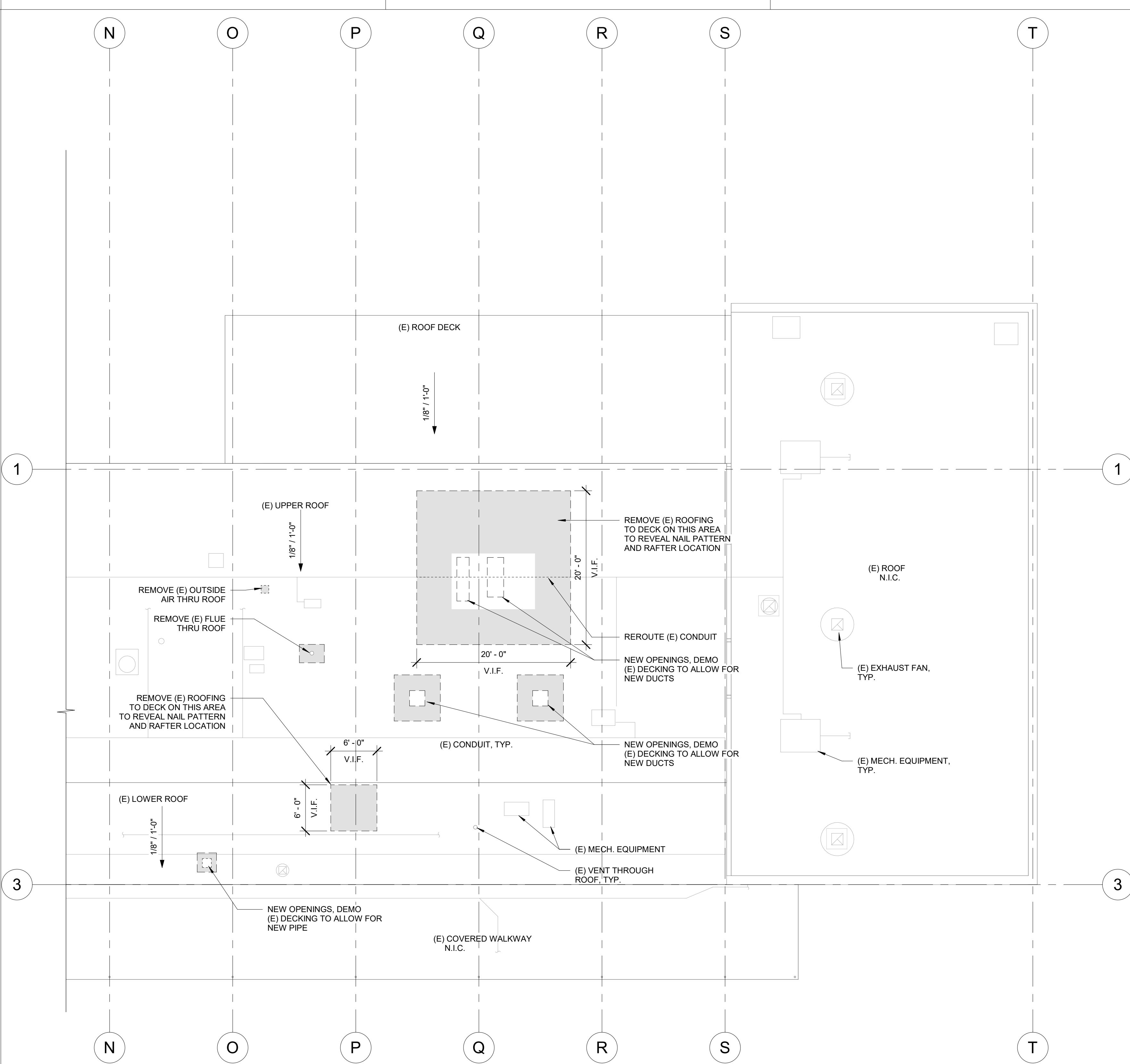
PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

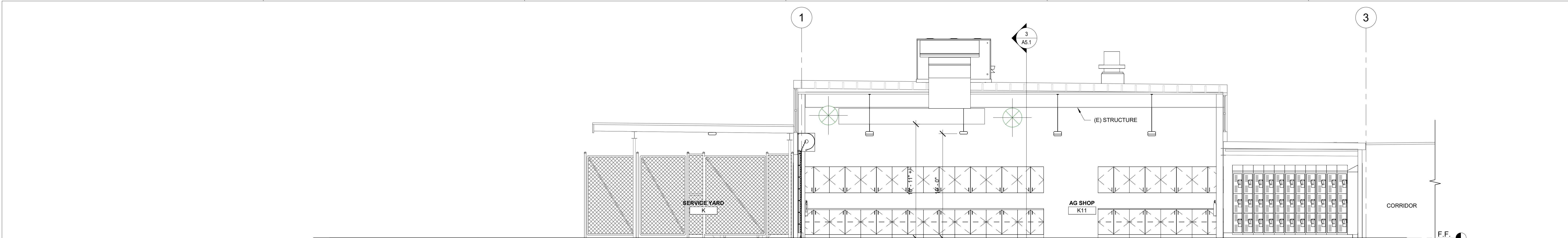
AG SHOP CEILING PLANS

A3.1

FINISH SCHEDULE		
REFERENCE ROOM DESIGNATION TAGS FOR FINISH CALL-OUTS		
FLOOR/BASE	WALL	CEILING
0 SEE PLAN	0 SEE PLAN	0 SEE RCP PLAN
1 EXISTING FLOOR AND BASE TO REMAIN	A EXISTING GYPSUM WALL BOARD TO REMAIN - NEW PAINT	1 NAIL ON ACOUSTIC TILE TO REMAIN, PATCH AND REPAIR - NEW PAINT
2 RESILIENT BASE	B GYPSUM WALL BOARD TO BE REMOVED	2 (E) GYPSUM BOARD CEILING, PATCH AND REPAIR, PAINT.

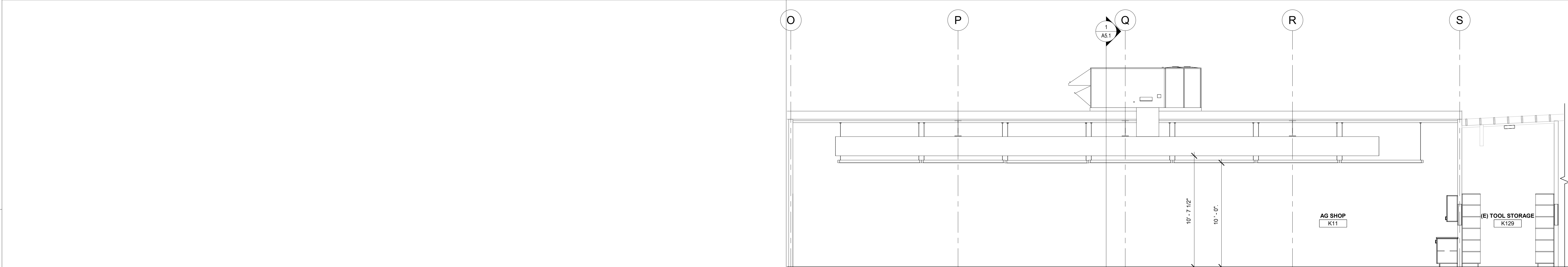

$$1/8'' = 1'-0''$$

A4.1



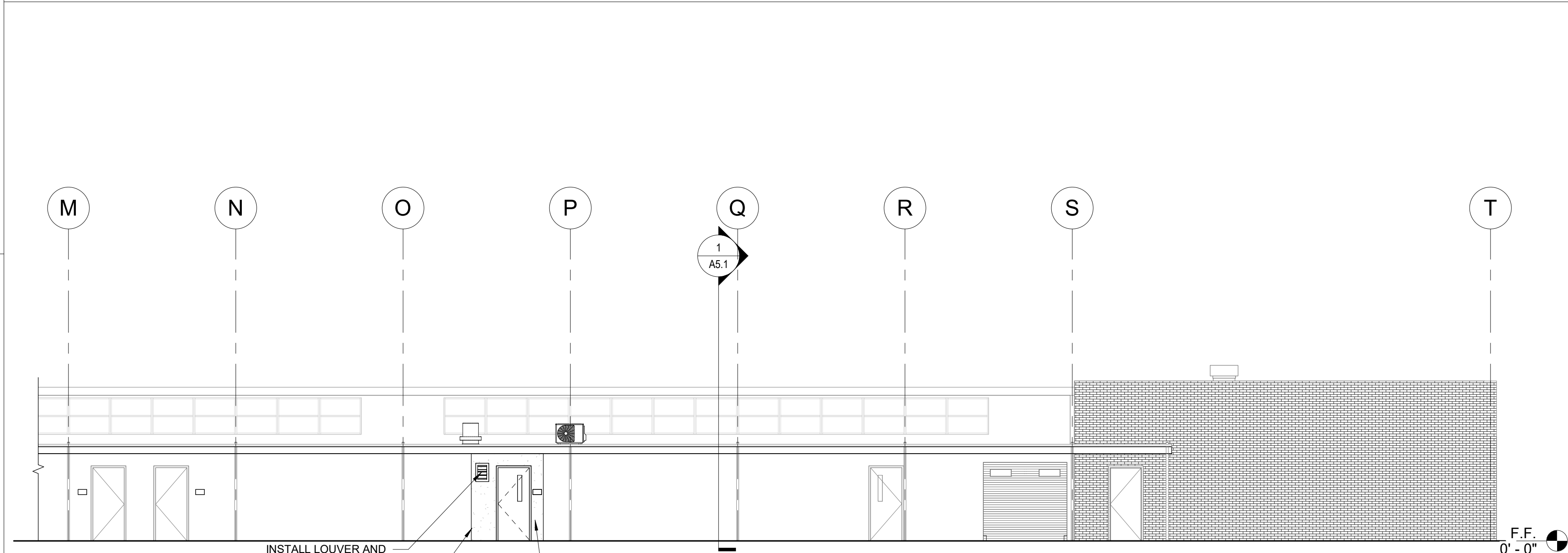
AG SHOP SECTION

1/4" = 1'-0" 1



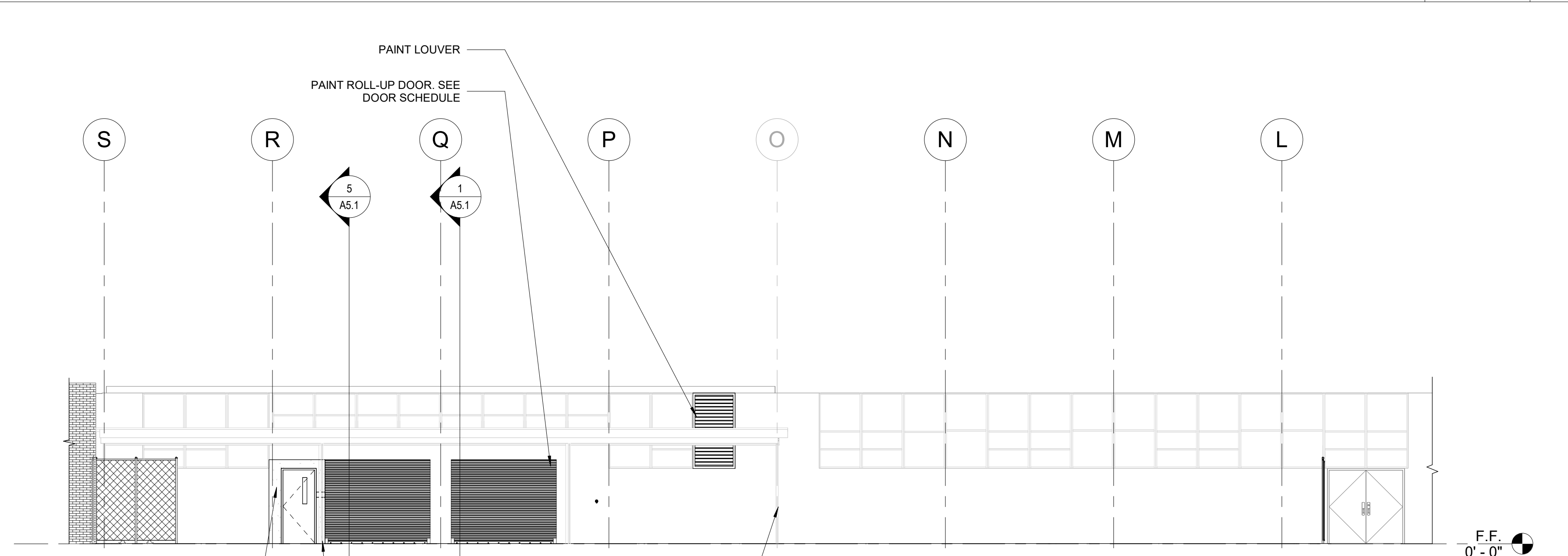
AG SHOP SECTION

1/4" = 1'-0" 3



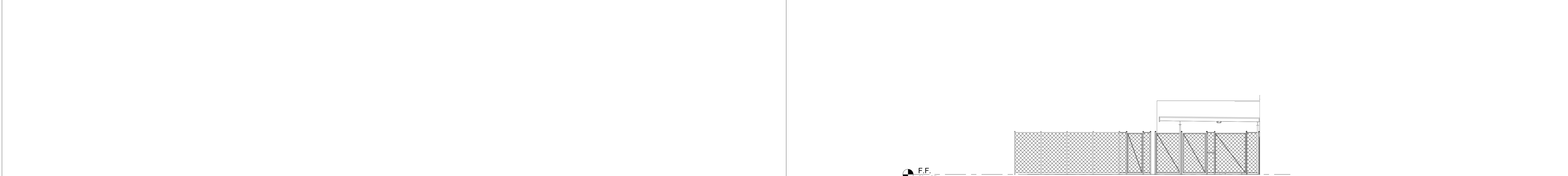
PARTIAL EXTERIOR ELEVATION - SOUTH

1/8" = 1'-0" 19



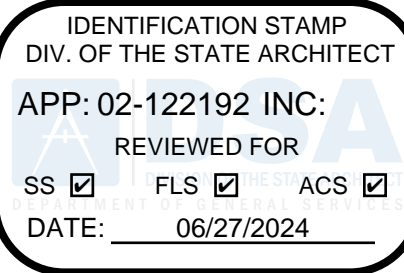
PARTIAL EXTERIOR ELEVATION - NORTH

1/8" = 1'-0" 4



PARTIAL EXTERIOR ELEVATION - WEST

1/8" = 1'-0" 5



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CONSTRUCTION DOCUMENTS

SECTIONS AND
EXTERIOR
ELEVATIONS

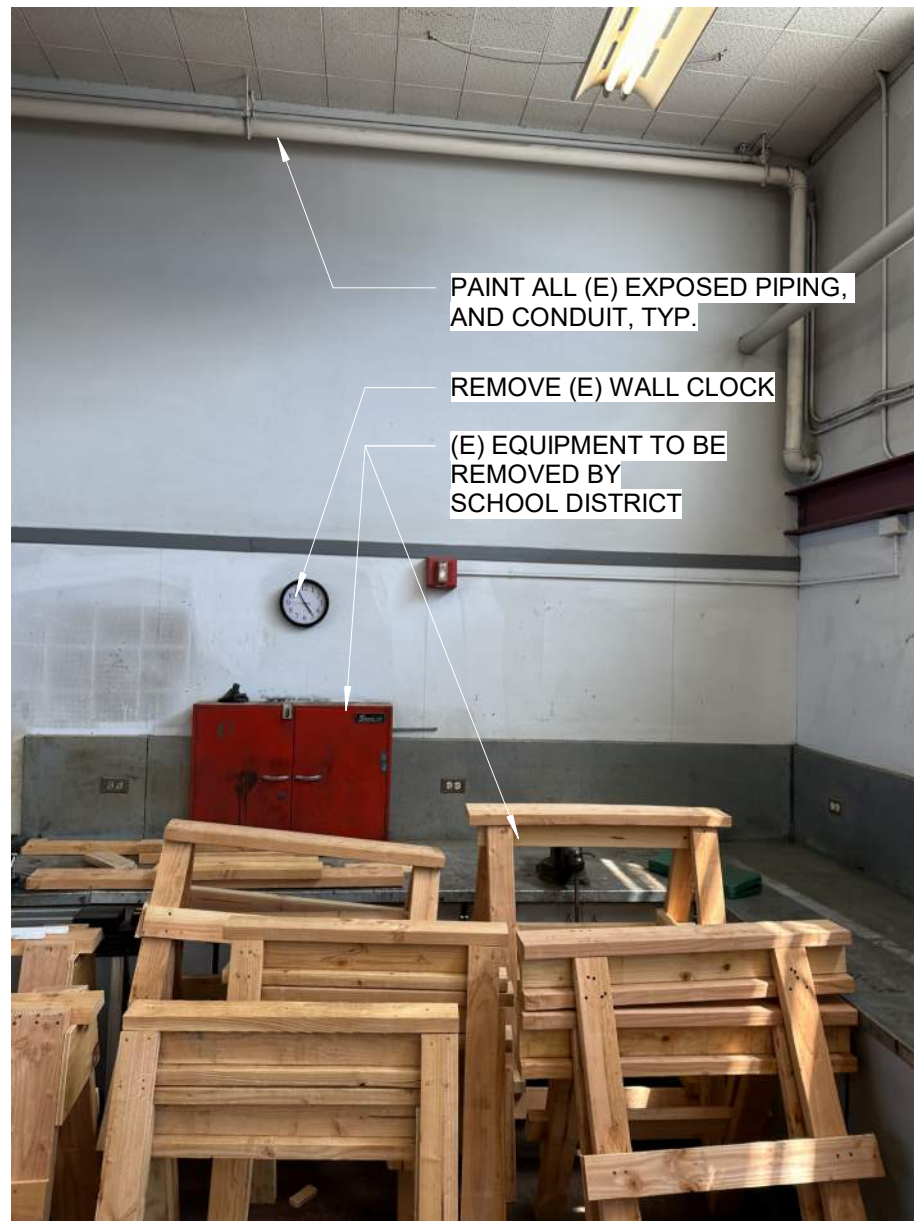
A5.1



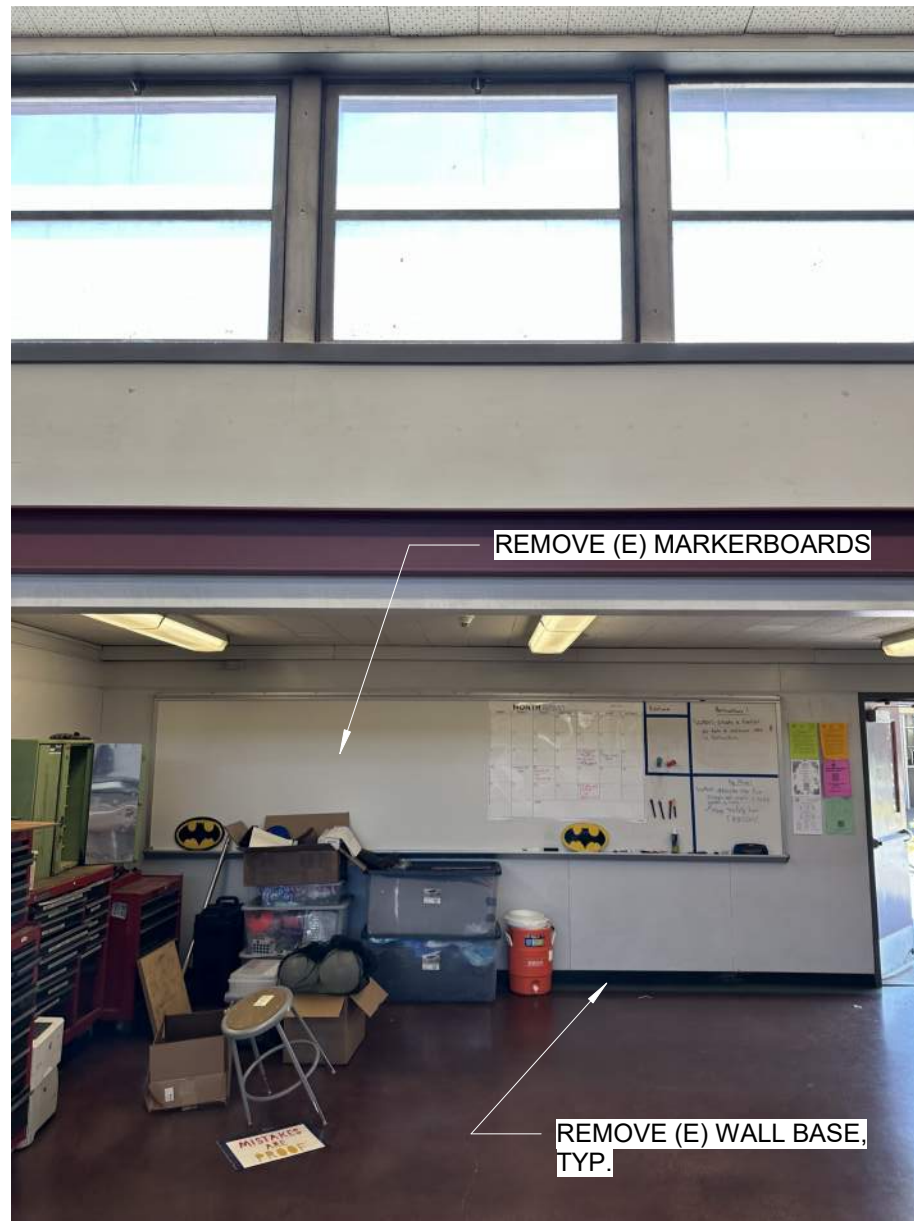
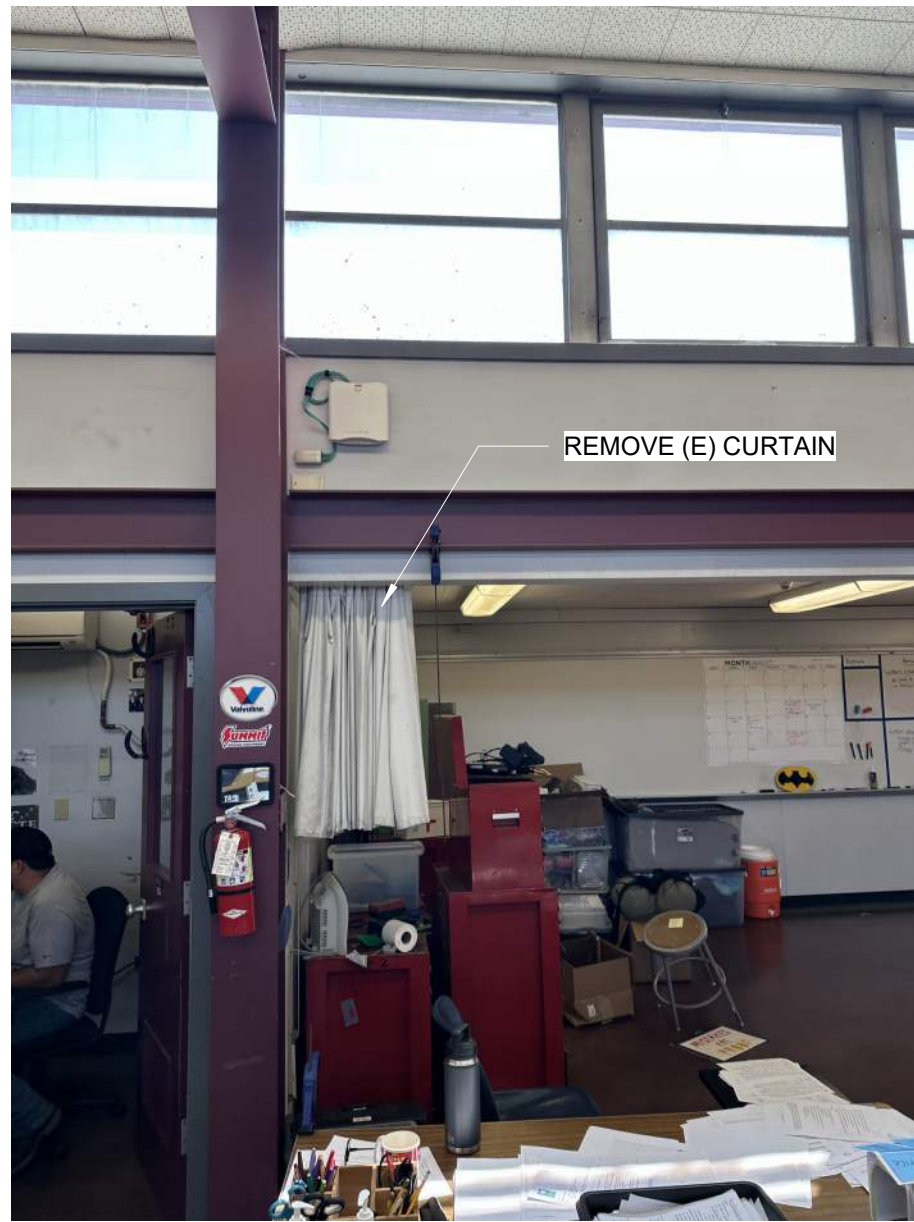
NORTH WALL



EAST WALL



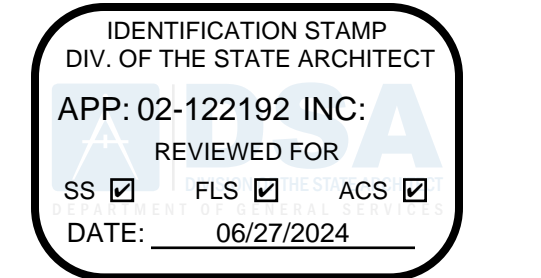
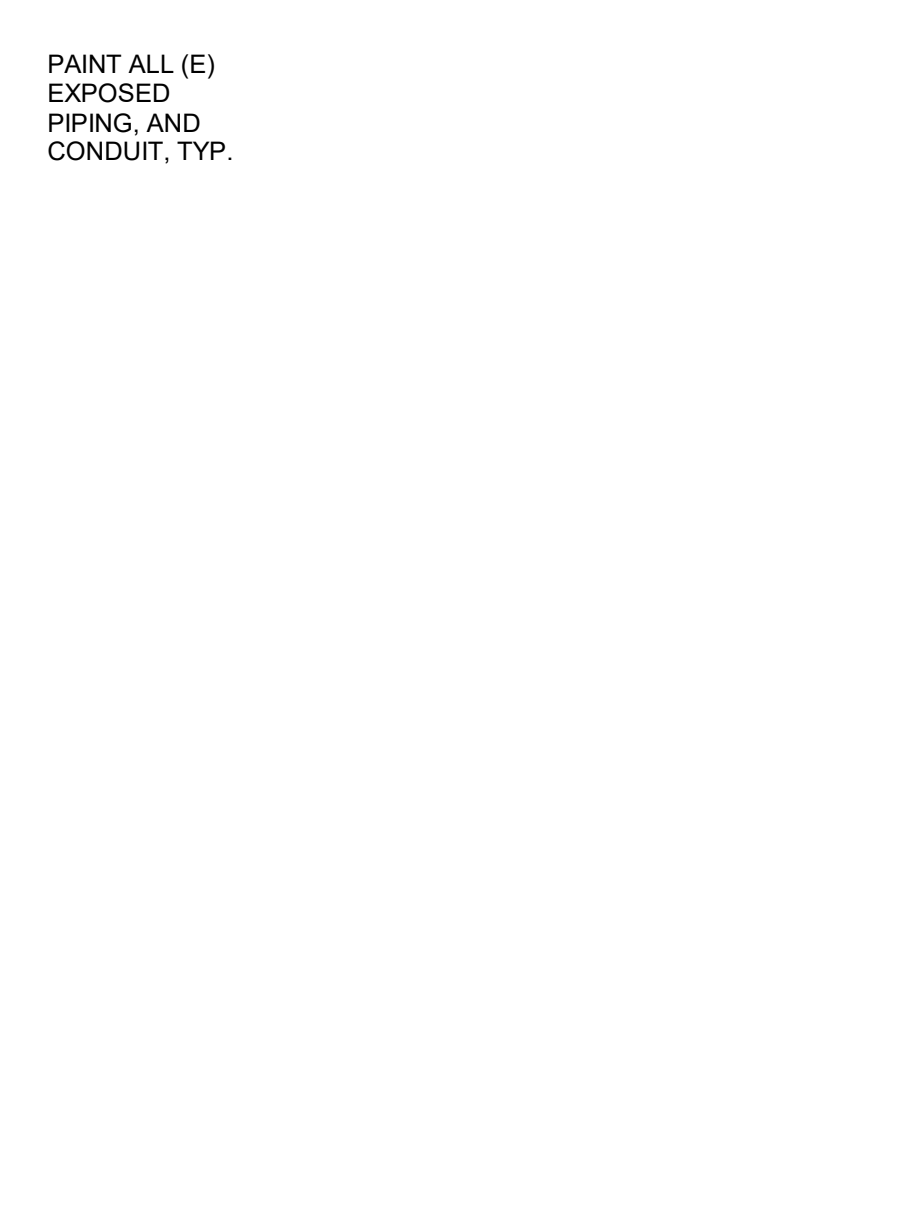
SOUTH WALL



OPEN WALL AS REQUIRED TO INSTALL NEW PLUMBING



WEST WALL



DSA APP. NO: 02-122192



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Phone: (916) 365-9655



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

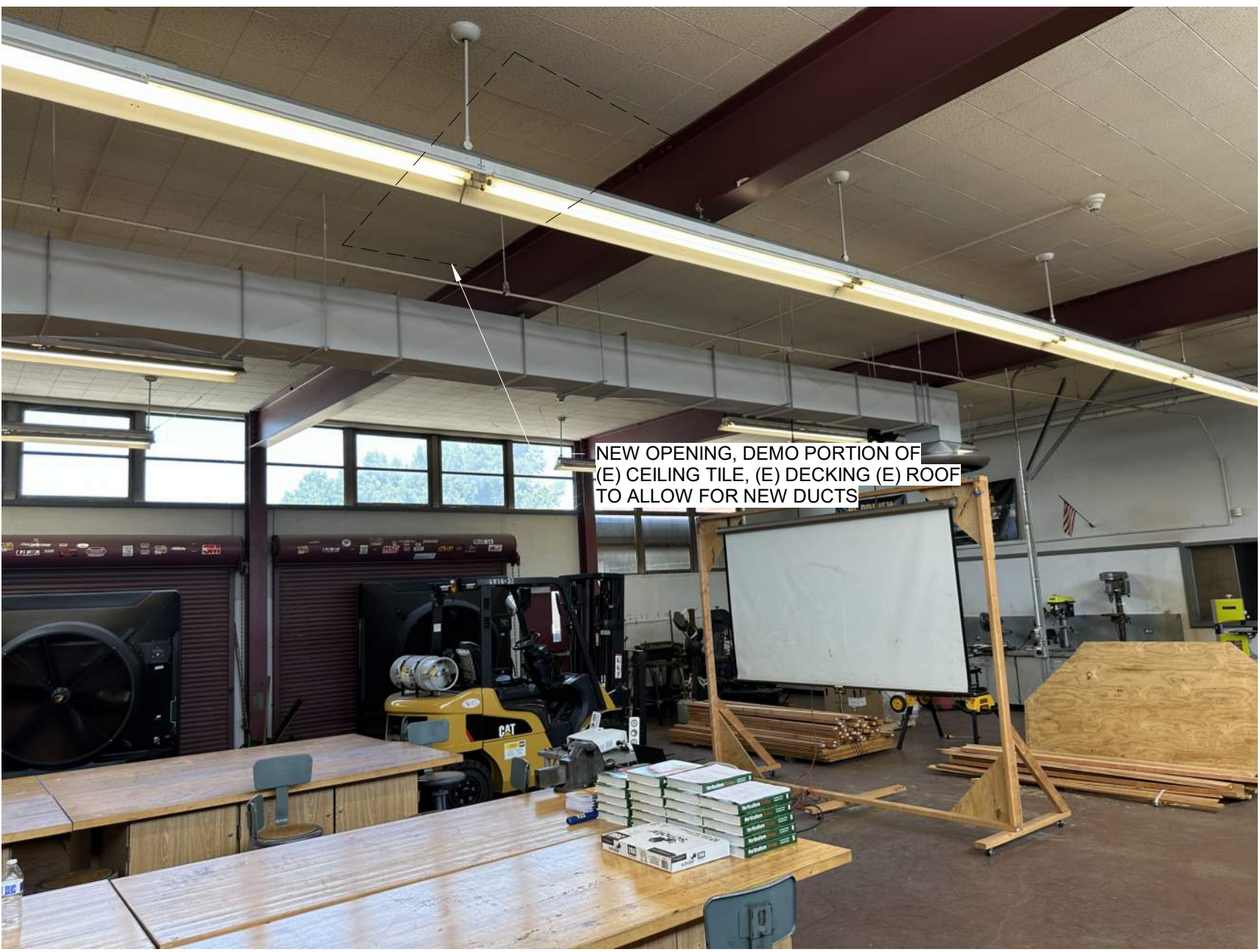
No.	Description	Date

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

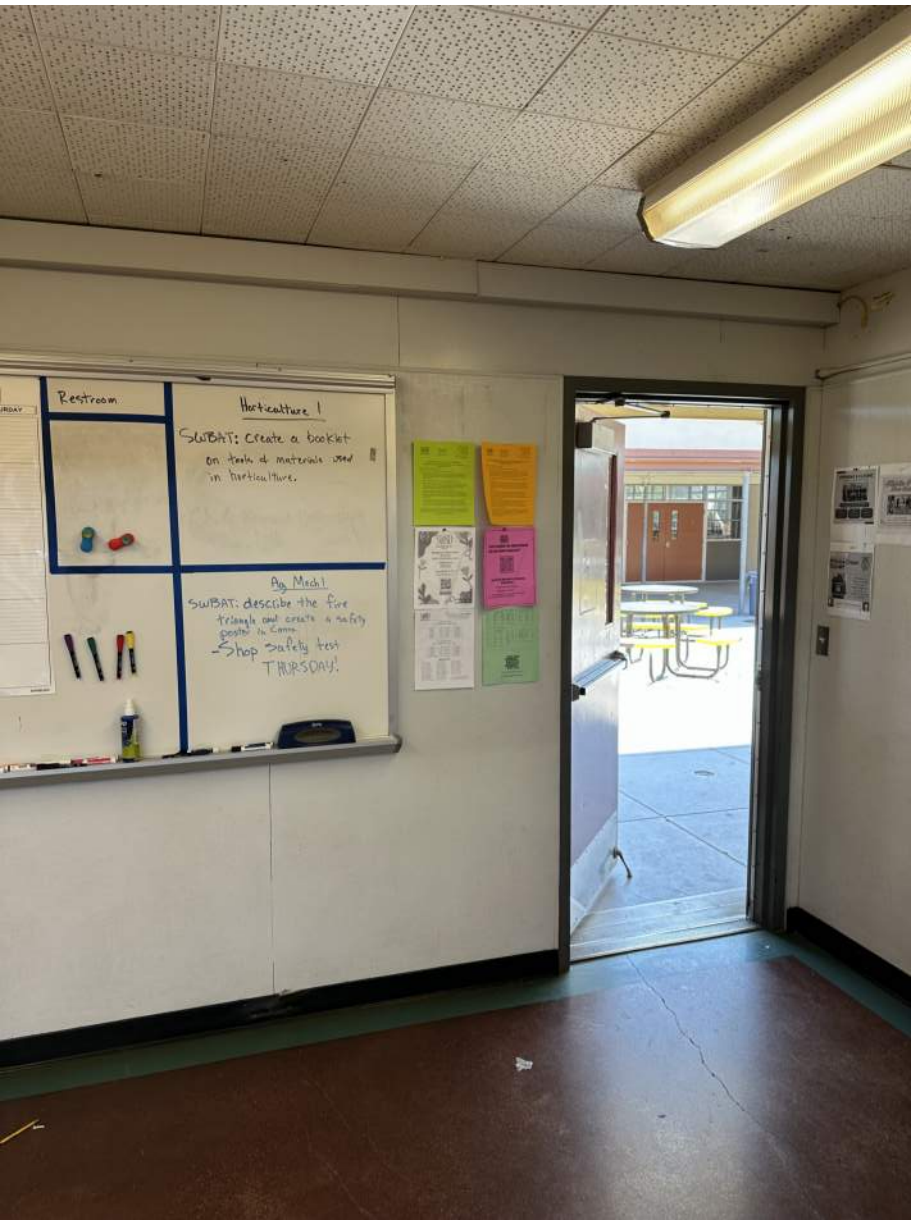
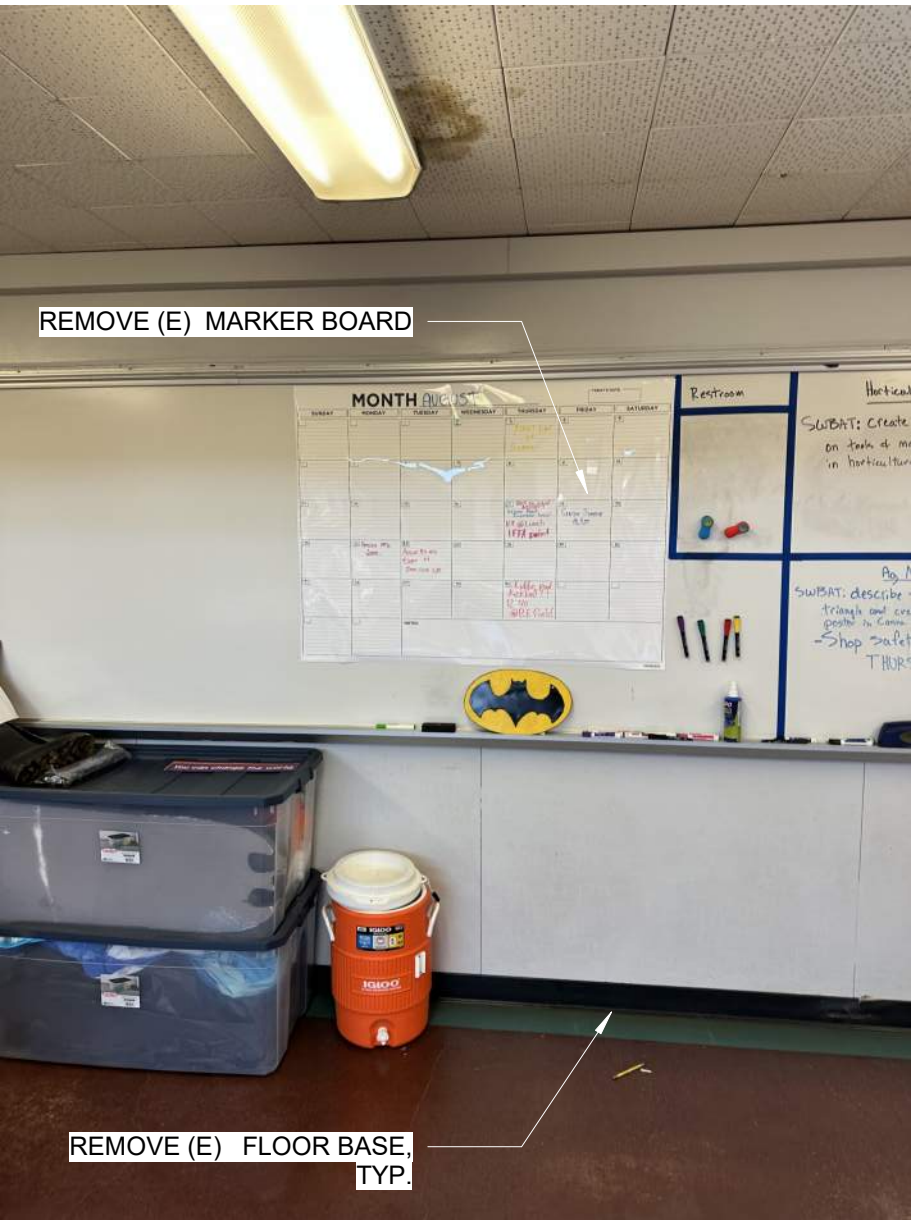
EXISTING
INTERIOR
PHOTOS

A7.1



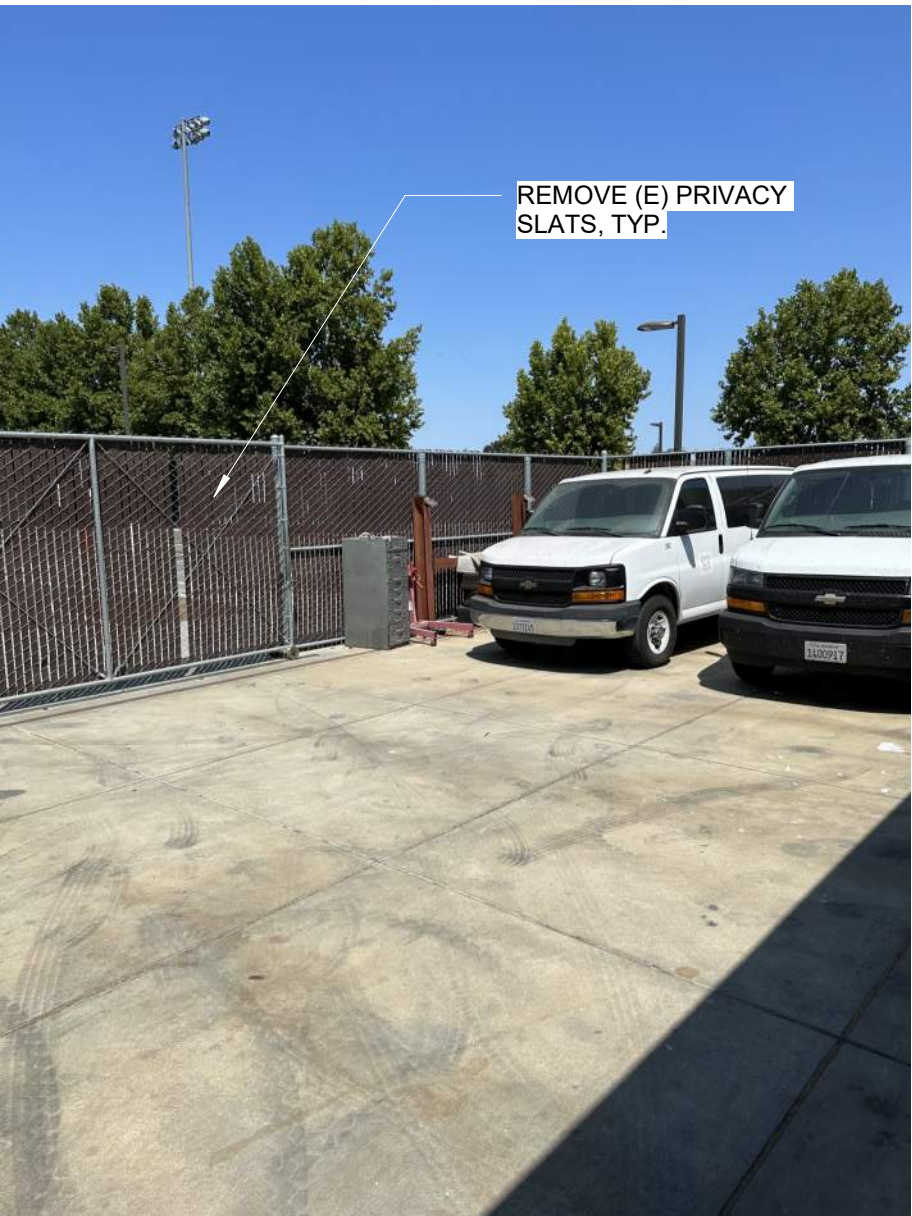
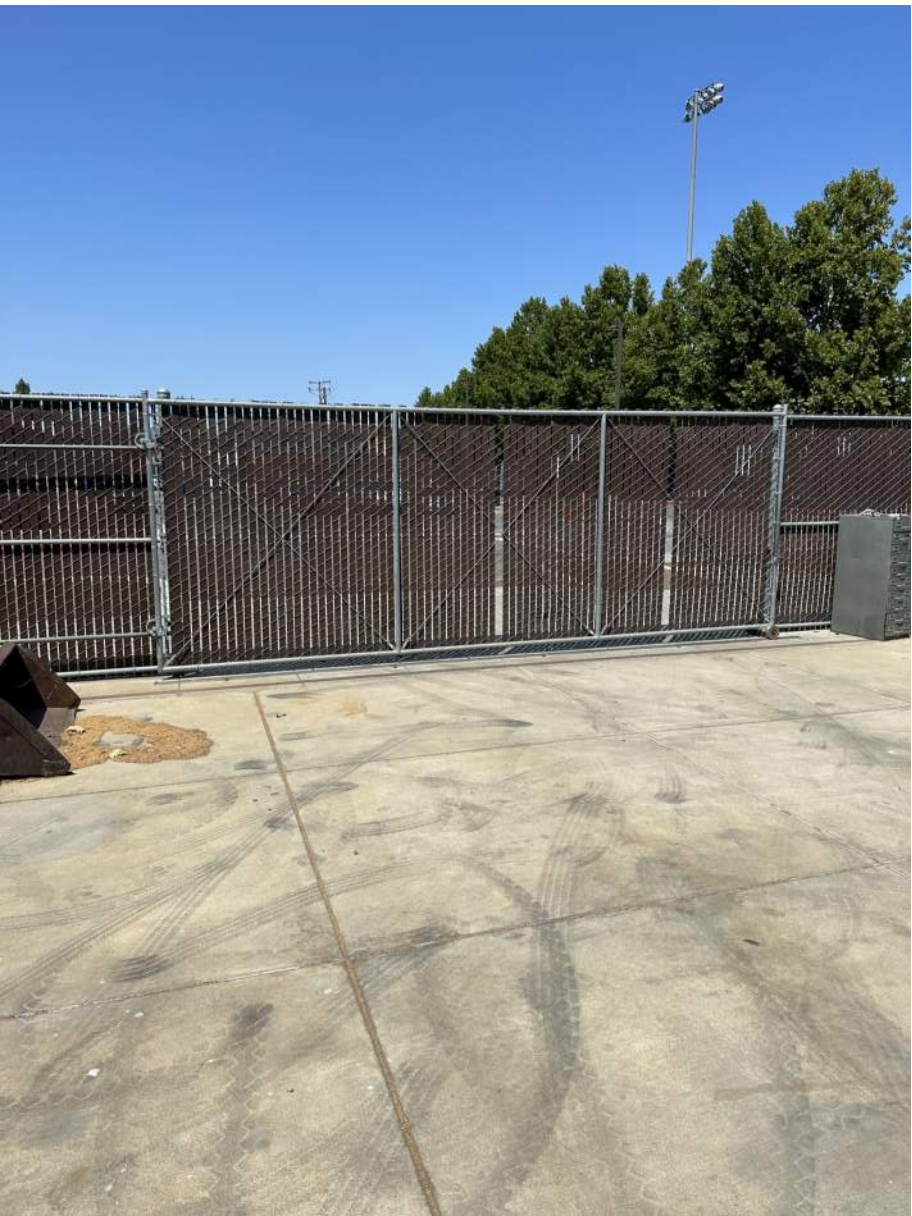
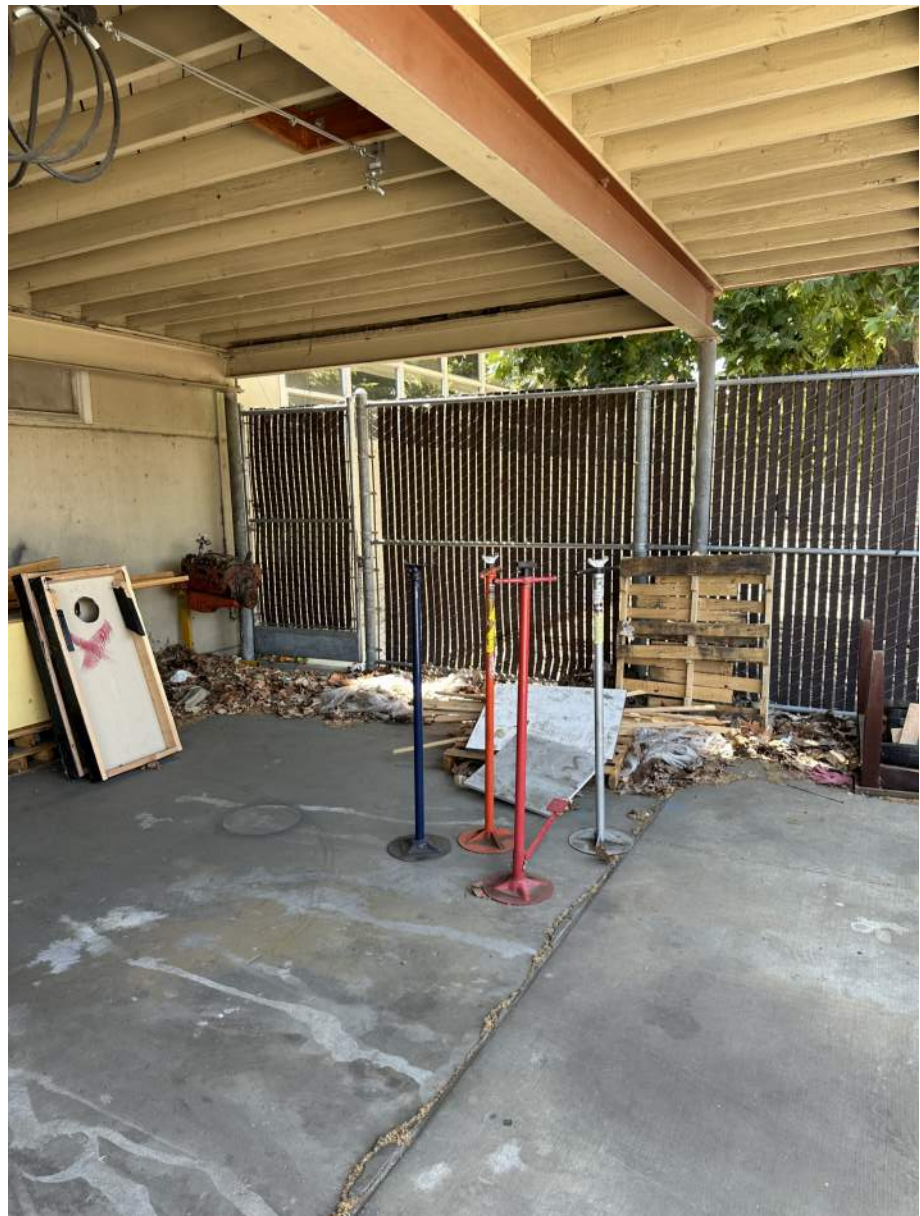
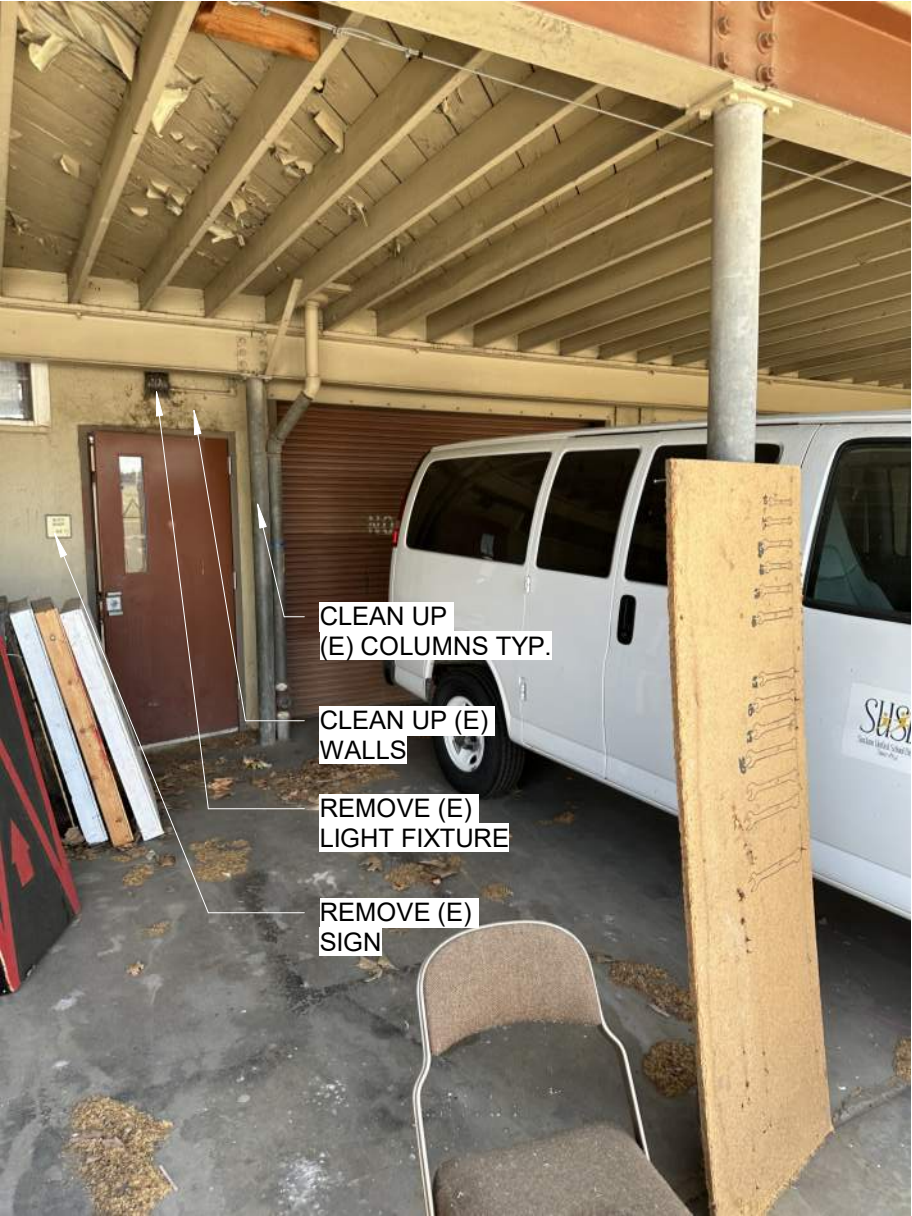
EXISTING AG SHOP INTERIOR PHOTOS

1/2" = 1'-0" 2



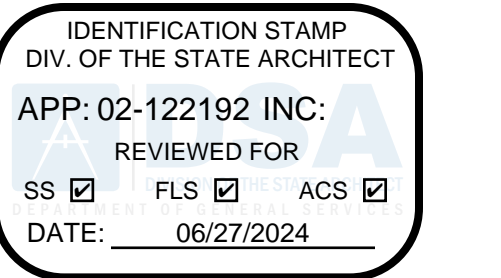
EXISTING LOBBY INTERIOR PHOTOS

1/2" = 1'-0" 3



EXISTING EXTERIOR PHOTOS

1/2" = 1'-0" 5



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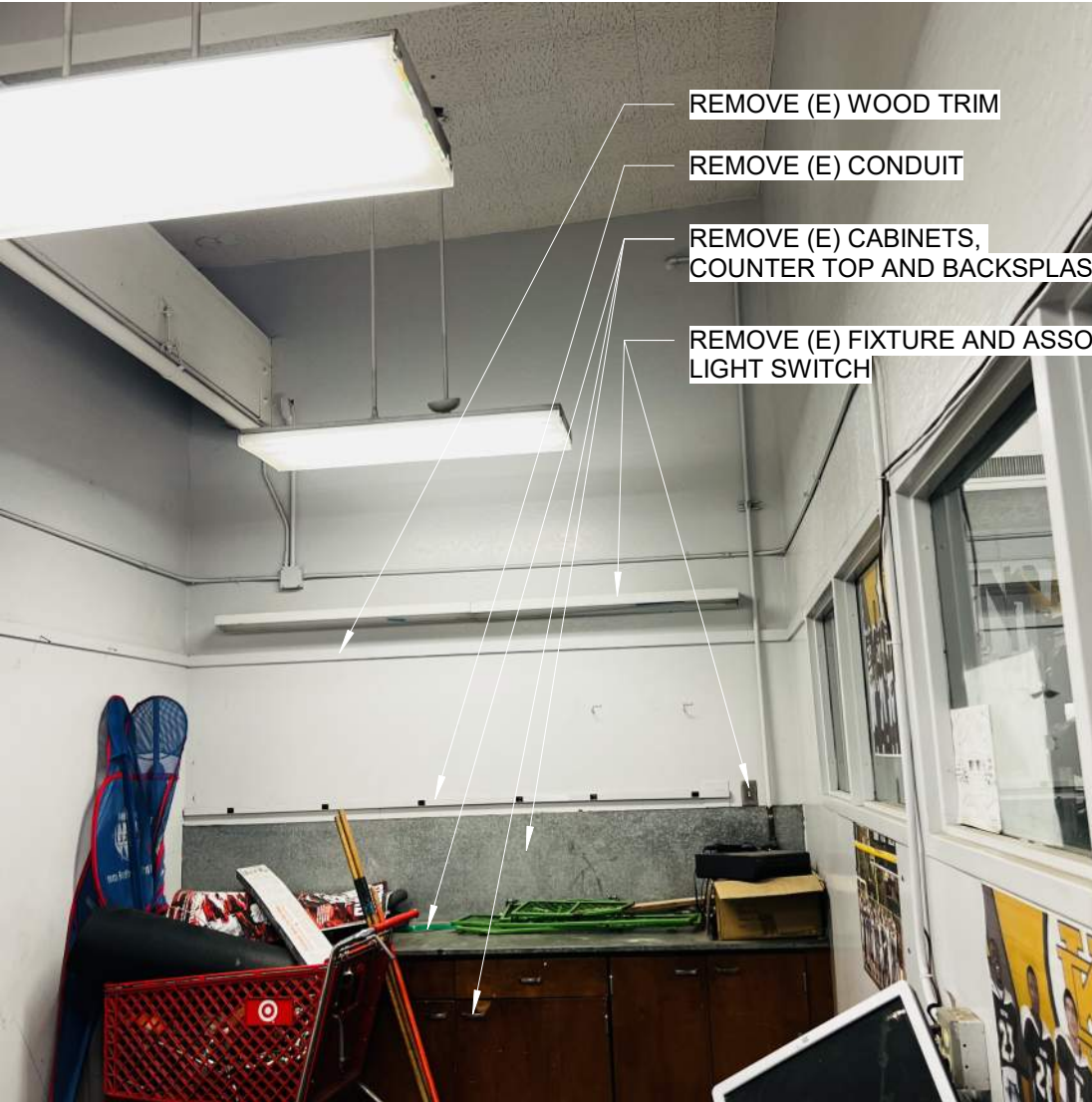
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PROJECT No.: 2023-014.00

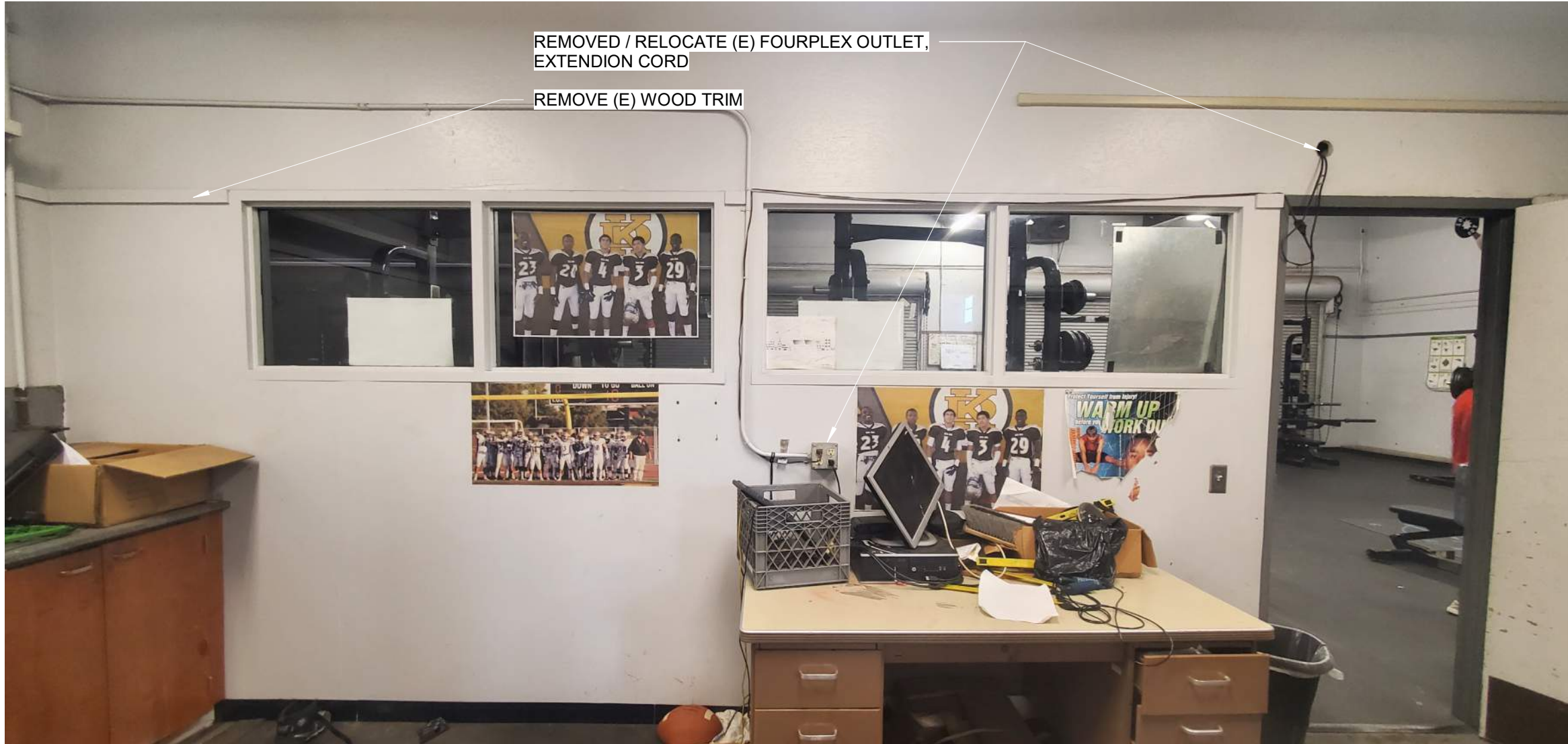
CONSTRUCTION DOCUMENTS

EXISTING
INTERIOR
PHOTOS

A7.2



NORTH WALL



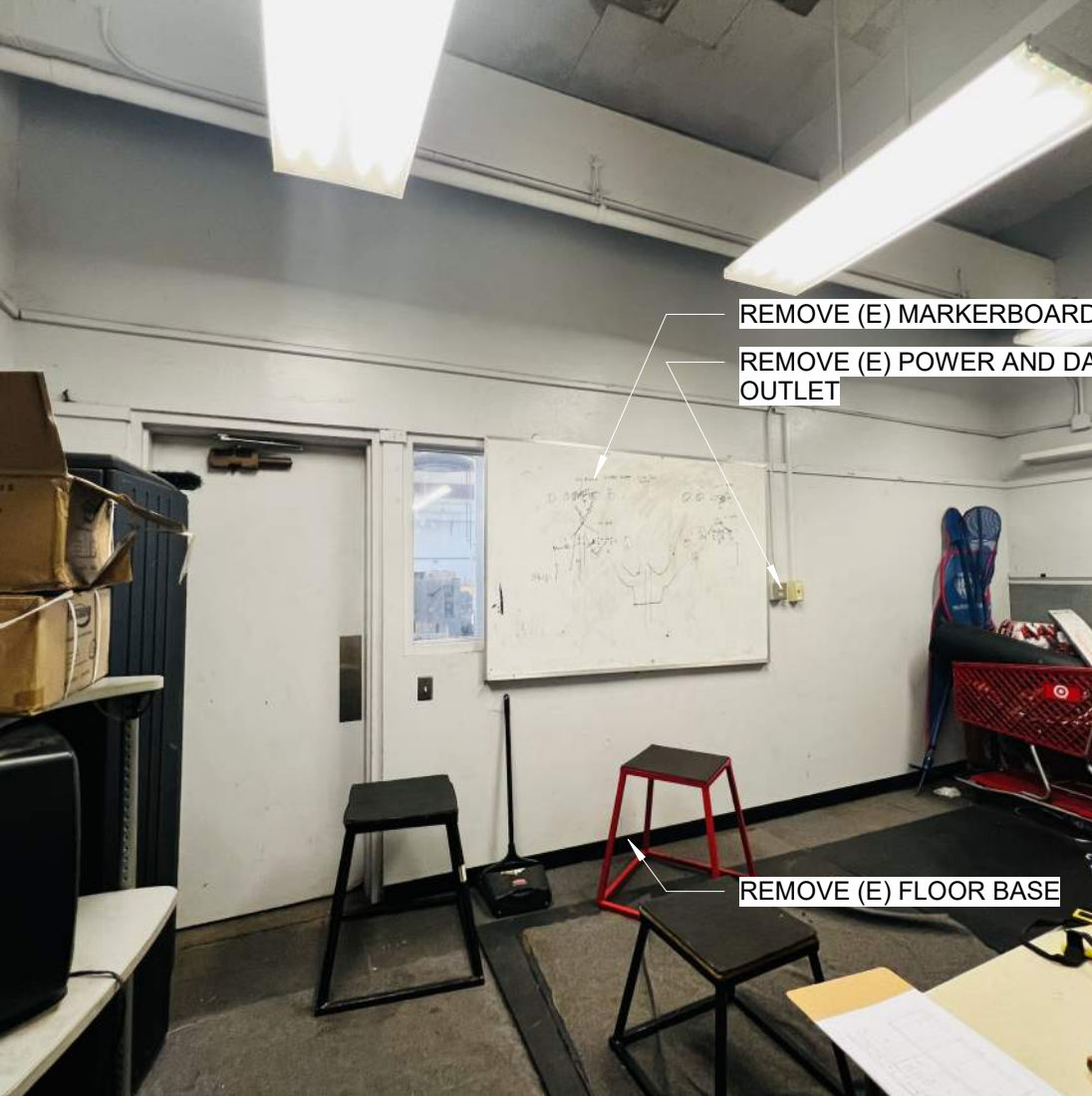
EAST WALL



SOUTH WALL



NORTH WALL



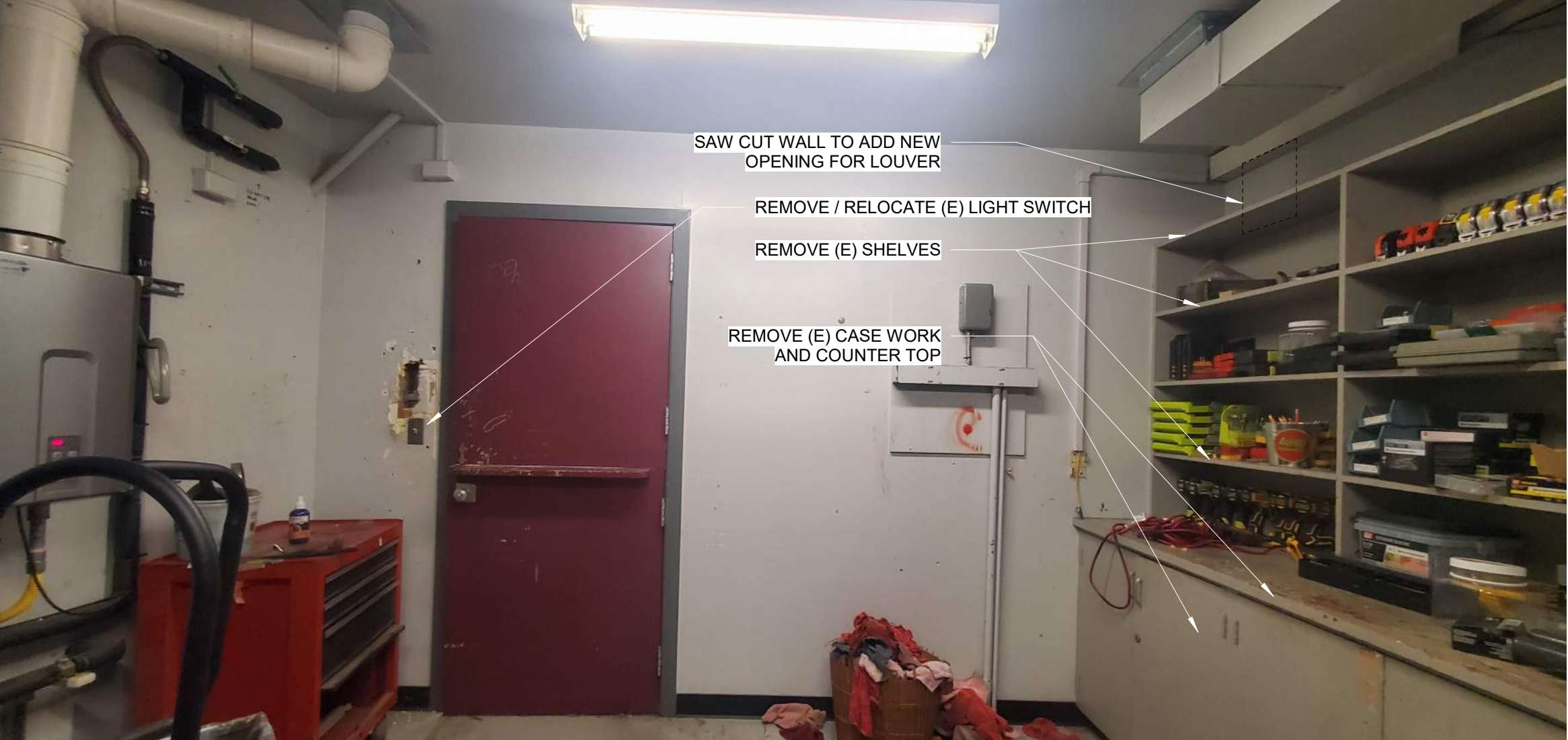
WEST WALL



EXTERNAL WALL OF TOOL STORAGE



CEILING



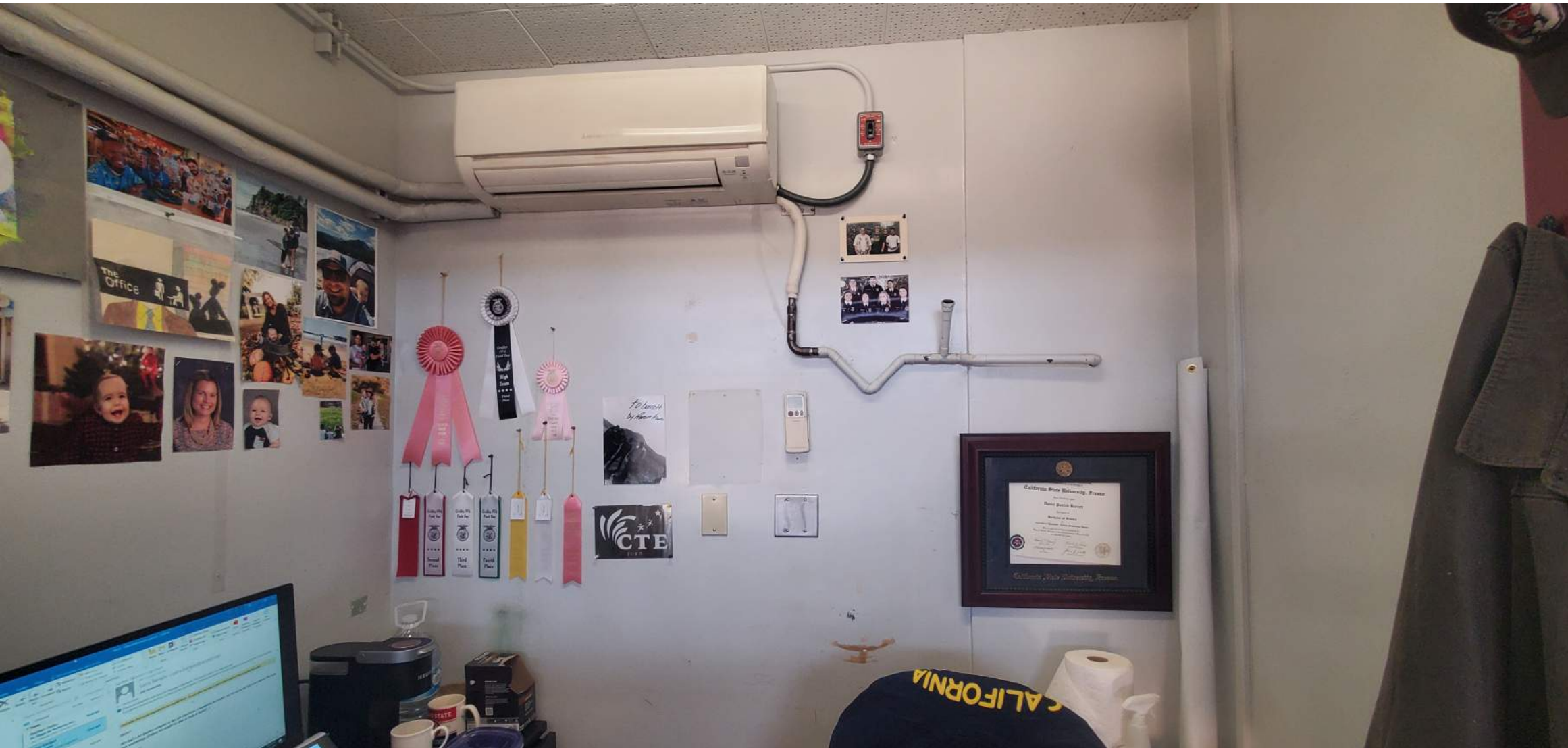
EAST WALL

EXISTING TOOL STORAGE INTERIOR PHOTOS

1/2" = 1'-0" 12



EAST WALL



SOUTH WALL



REMOVE (E) CASEWORK

EXISTING STORAGE INTERIOR PHOTOS

1/2" = 1'-0" 14



SOUTH WALL

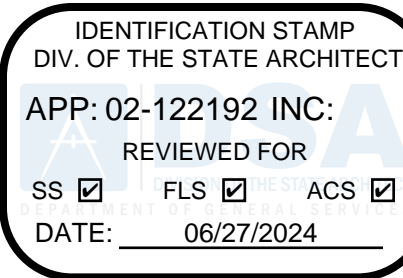


WEST WALL

EXISTING OFFICE INTERIOR PHOTOS

1/2" = 1'-0"

5



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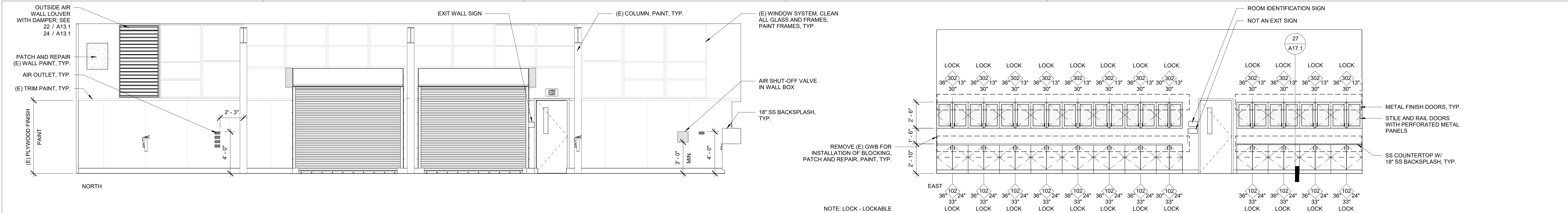
No.	Description	Date

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

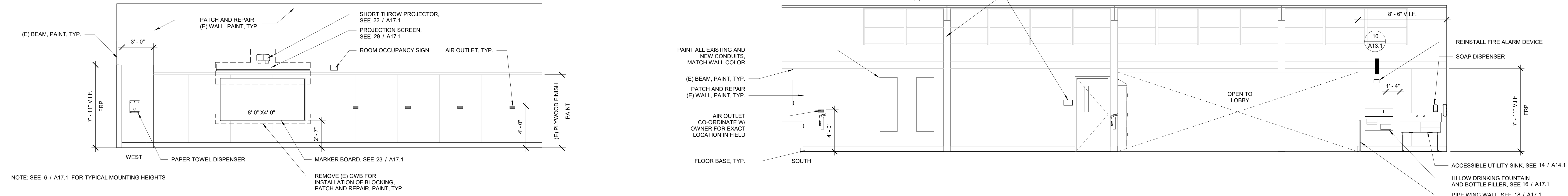
EXISTING
INTERIOR
PHOTOS

A7.3



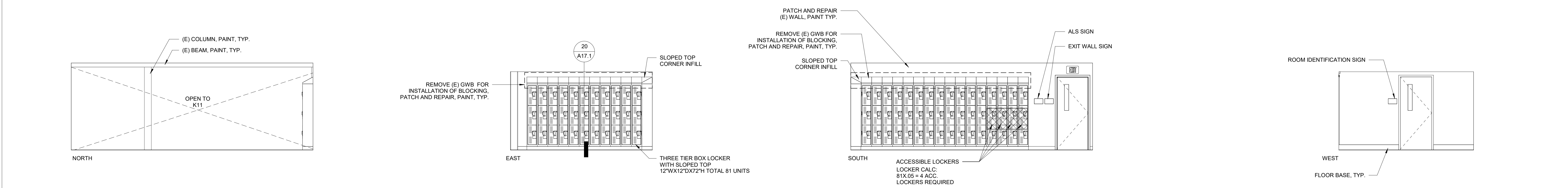
AG SHOP - INTERIOR ELEVATIONS

1/4" = 1'-0" 1



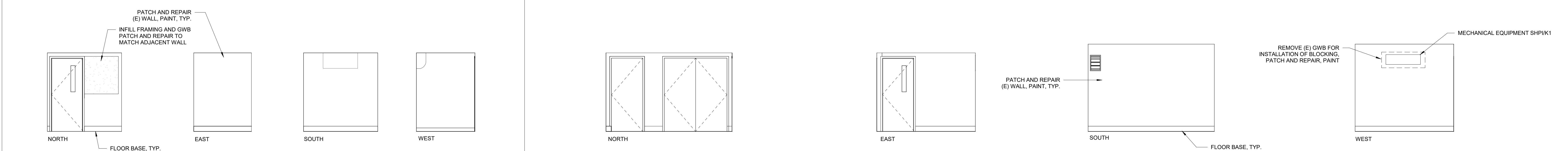
AG SHOP - INTERIOR ELEVATIONS

1/4" = 1'-0" 2



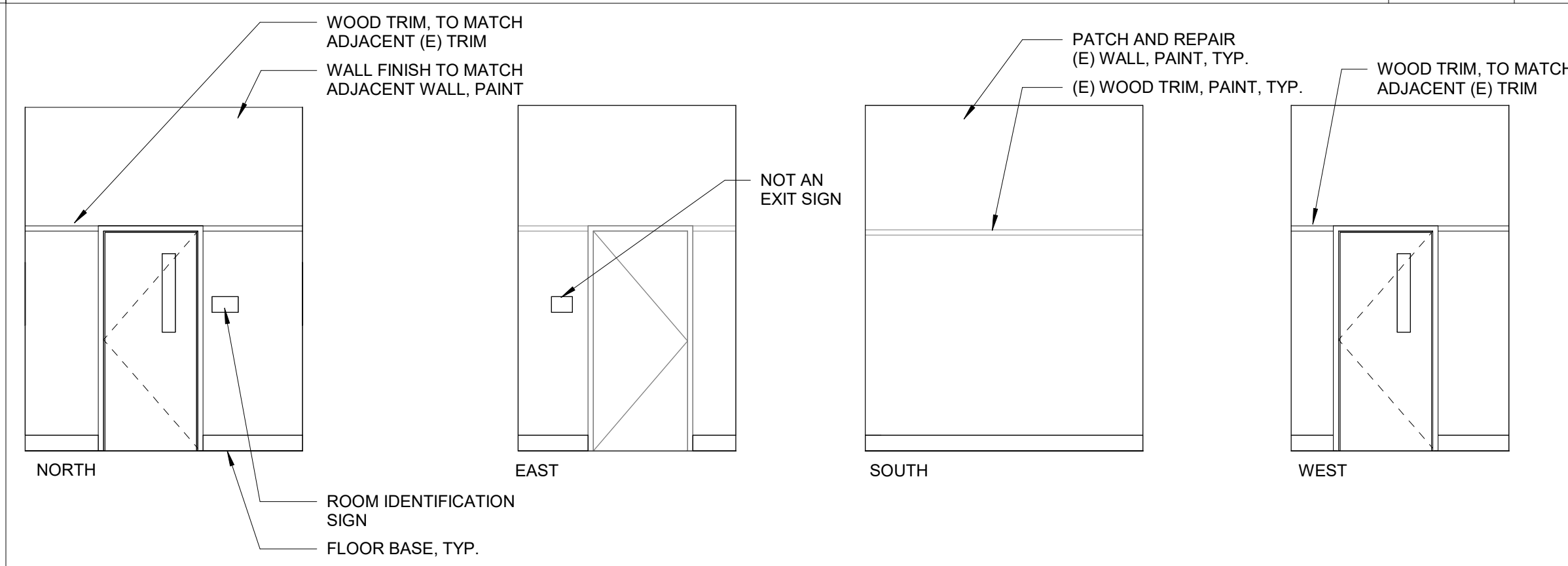
LOBBY - INTERIOR ELEVATIONS

1/4" = 1'-0" 3



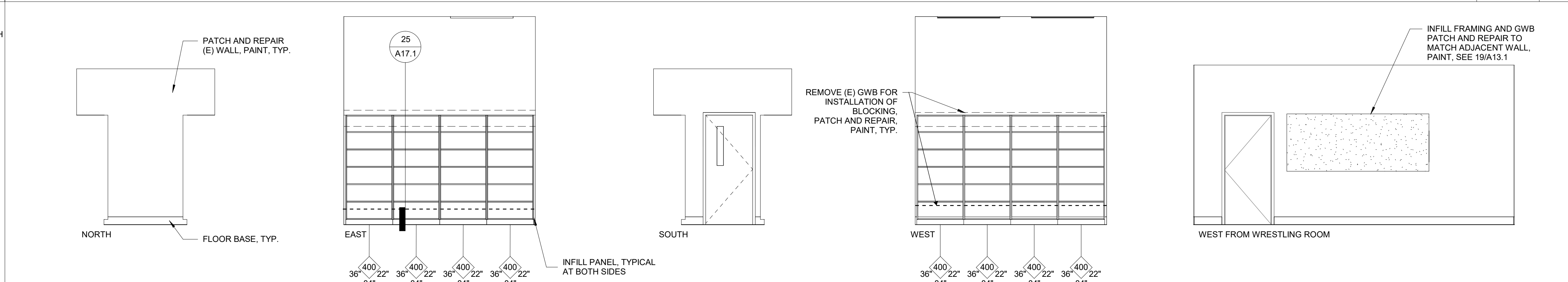
ELECTRICAL ROOM - INTERIOR ELEVATIONS

1/4" = 1'-0" 24



OFFICE - INTERIOR ELEVATIONS

1/4" = 1'-0" 4



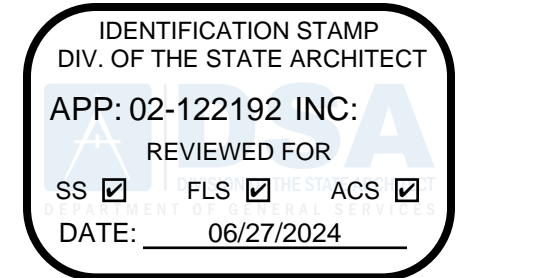
HALLWAY - INTERIOR ELEVATIONS

1/4" = 1'-0" 25



TOOL STORAGE - INTERIOR ELEVATIONS

1/4" = 1'-0" 5



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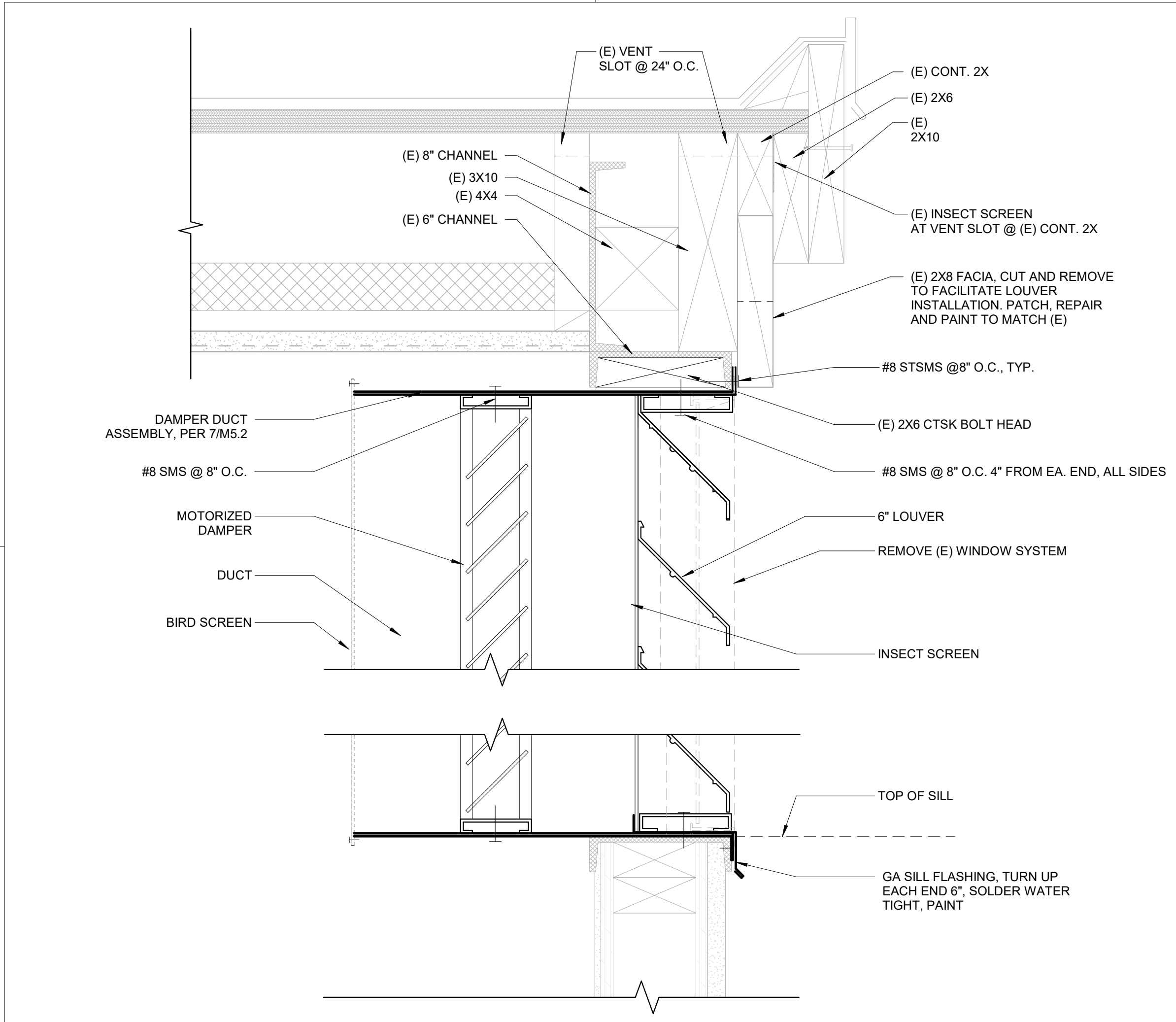
No.	Description	Date

PROJECT No.: 2023-014.00

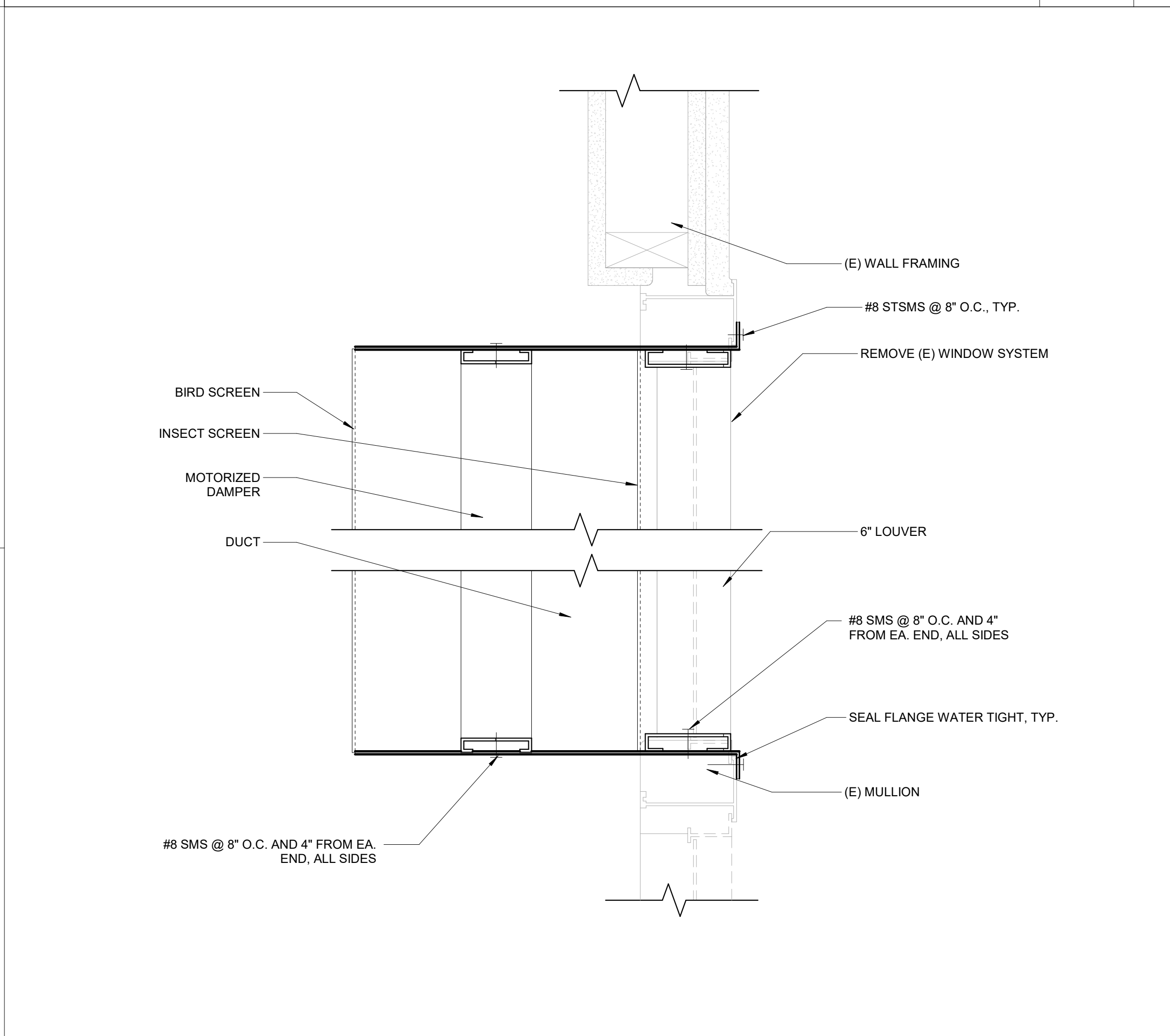
CONSTRUCTION DOCUMENTS

INTERIOR ELEVATIONS

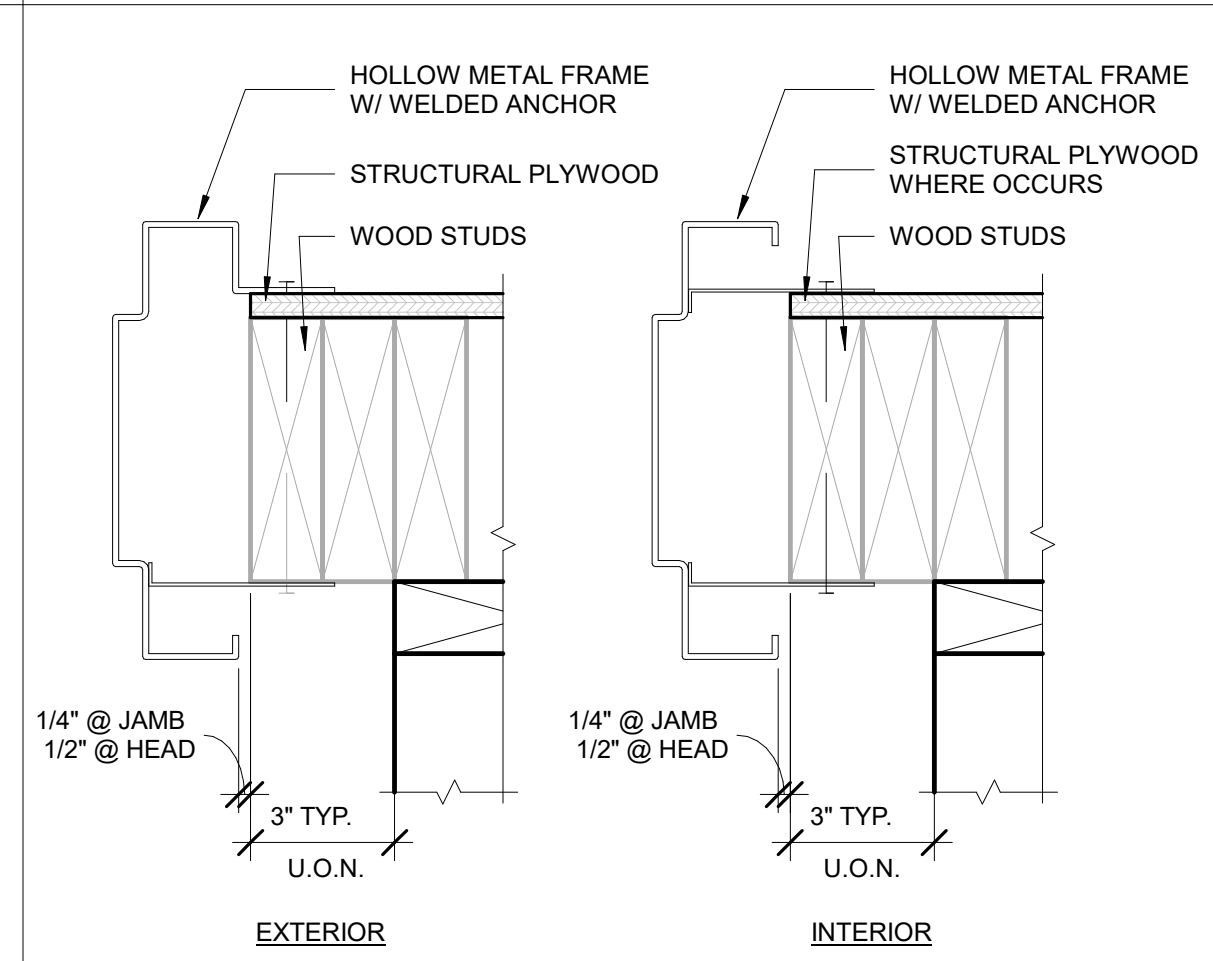
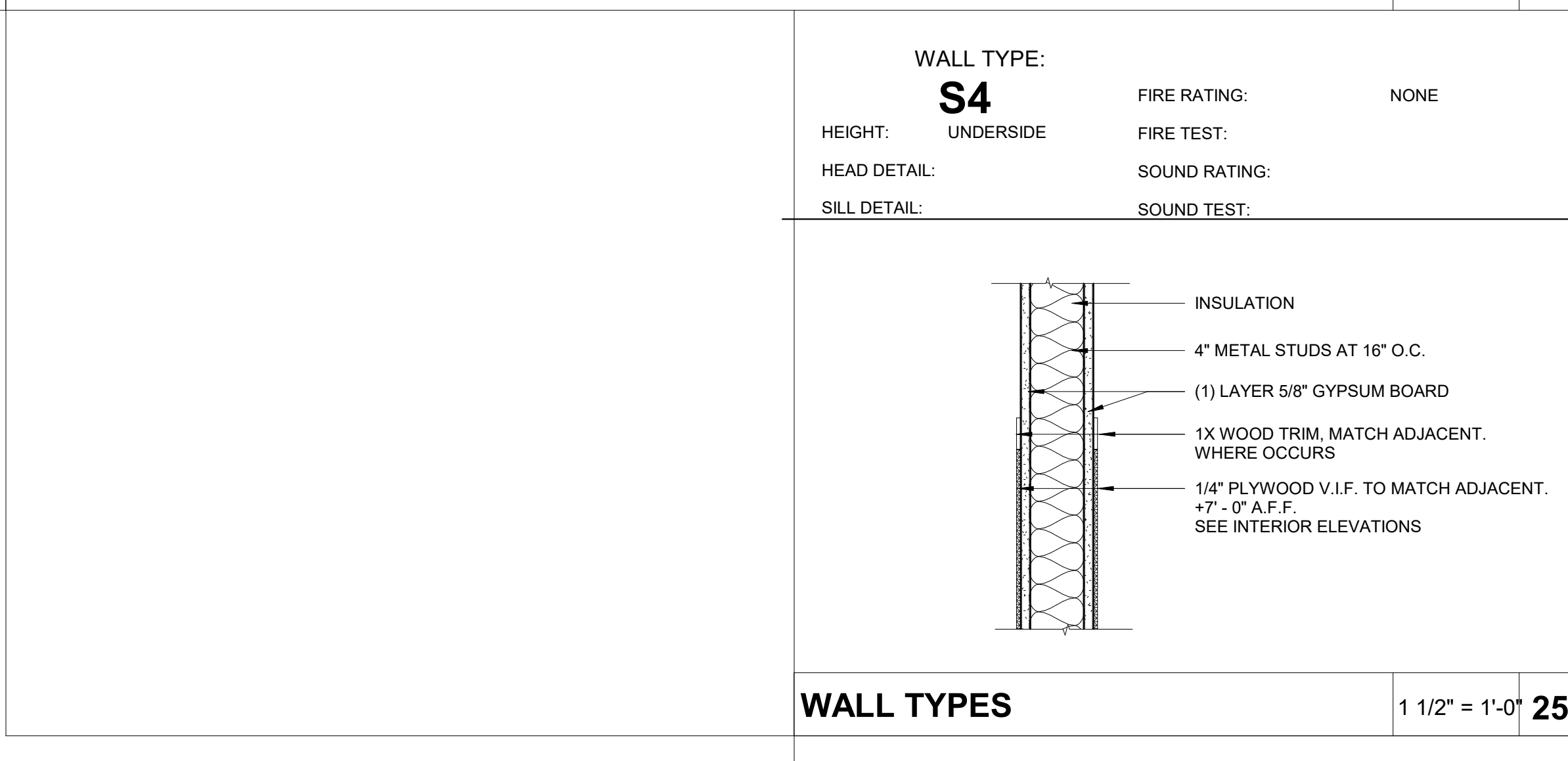
A7.4



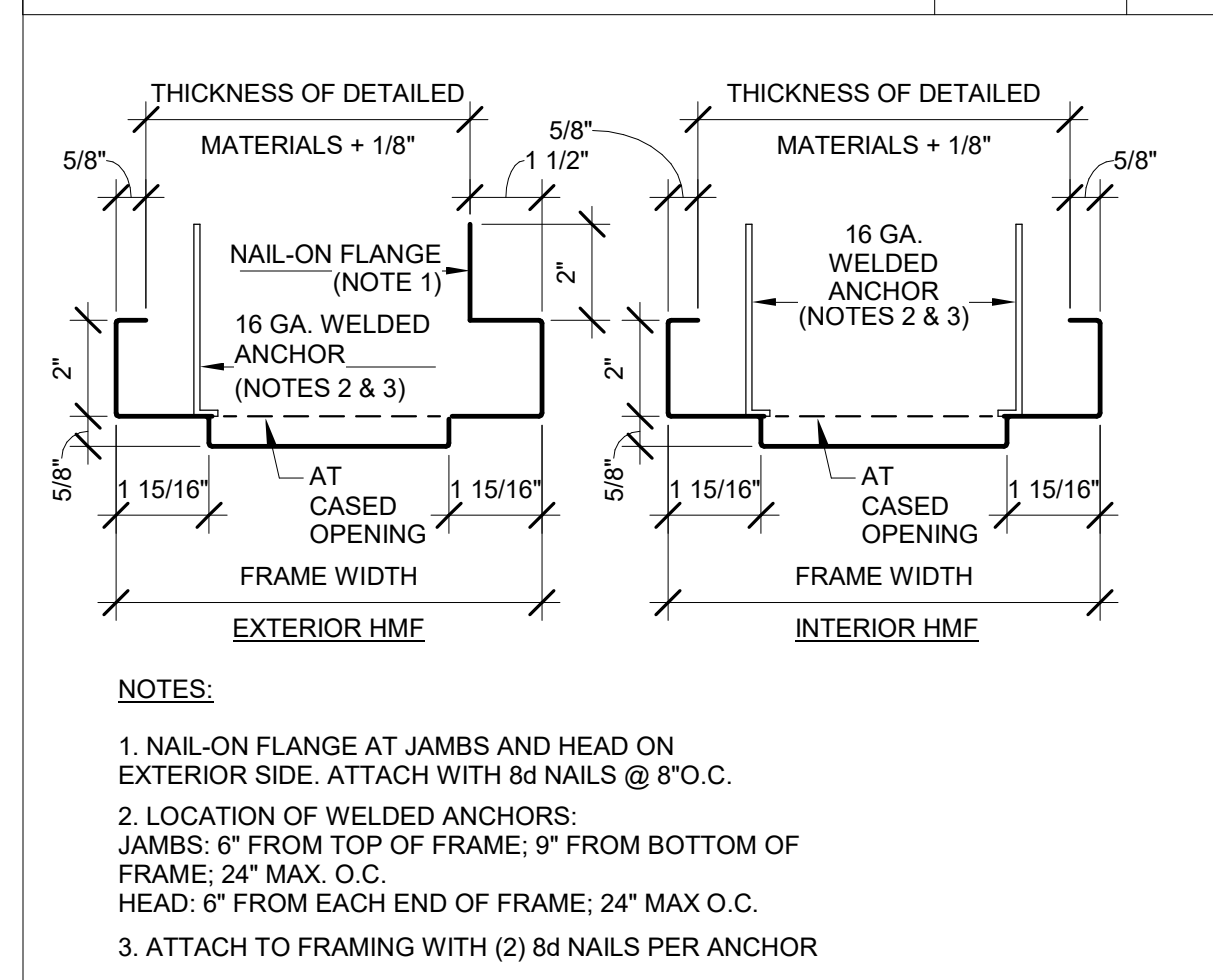
LOUVER IN (E) WINDOW HEAD 3" = 1'-0" 22



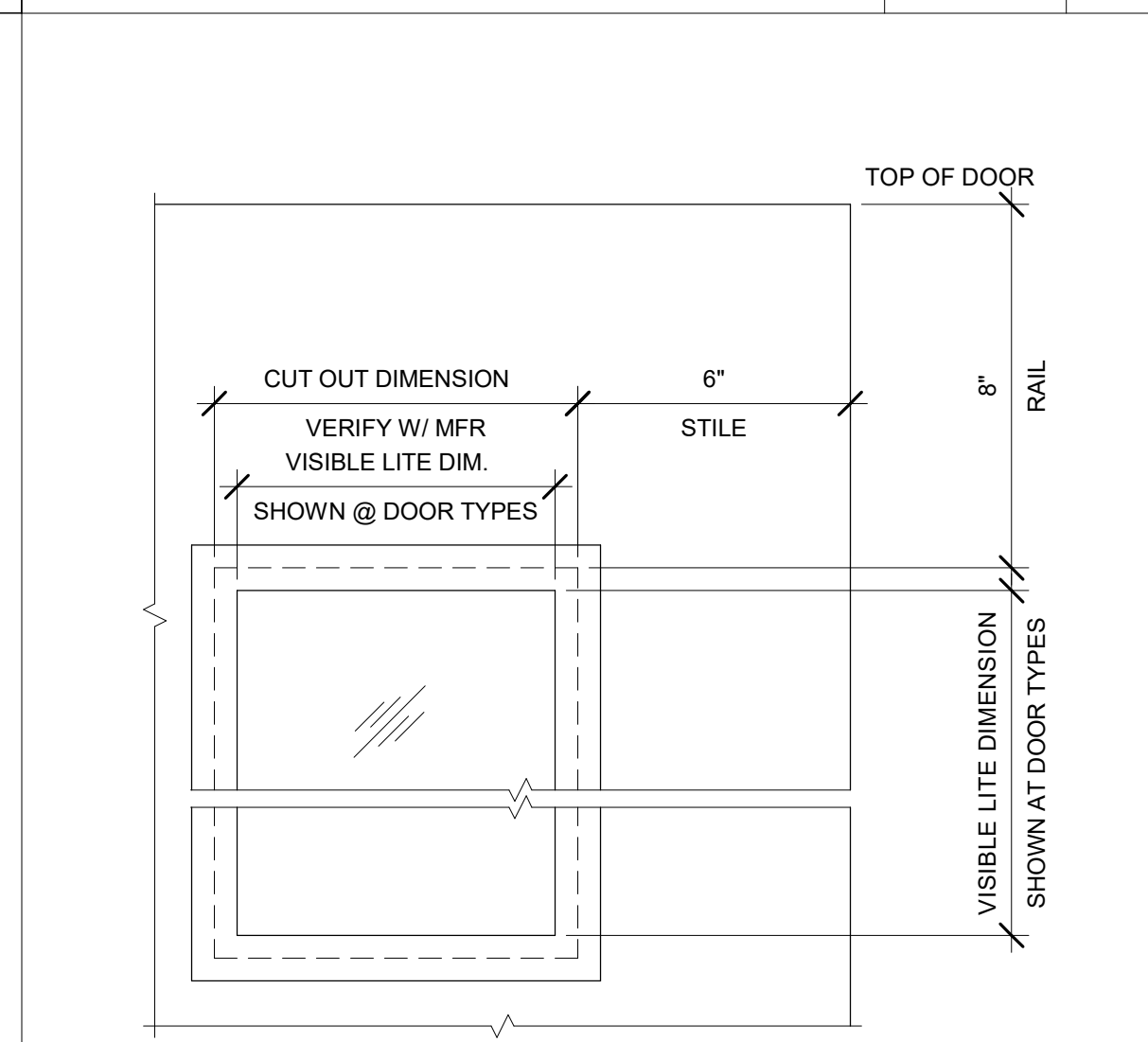
LOUVER IN (E) WINDOW JAMB 3" = 1'-0" 24



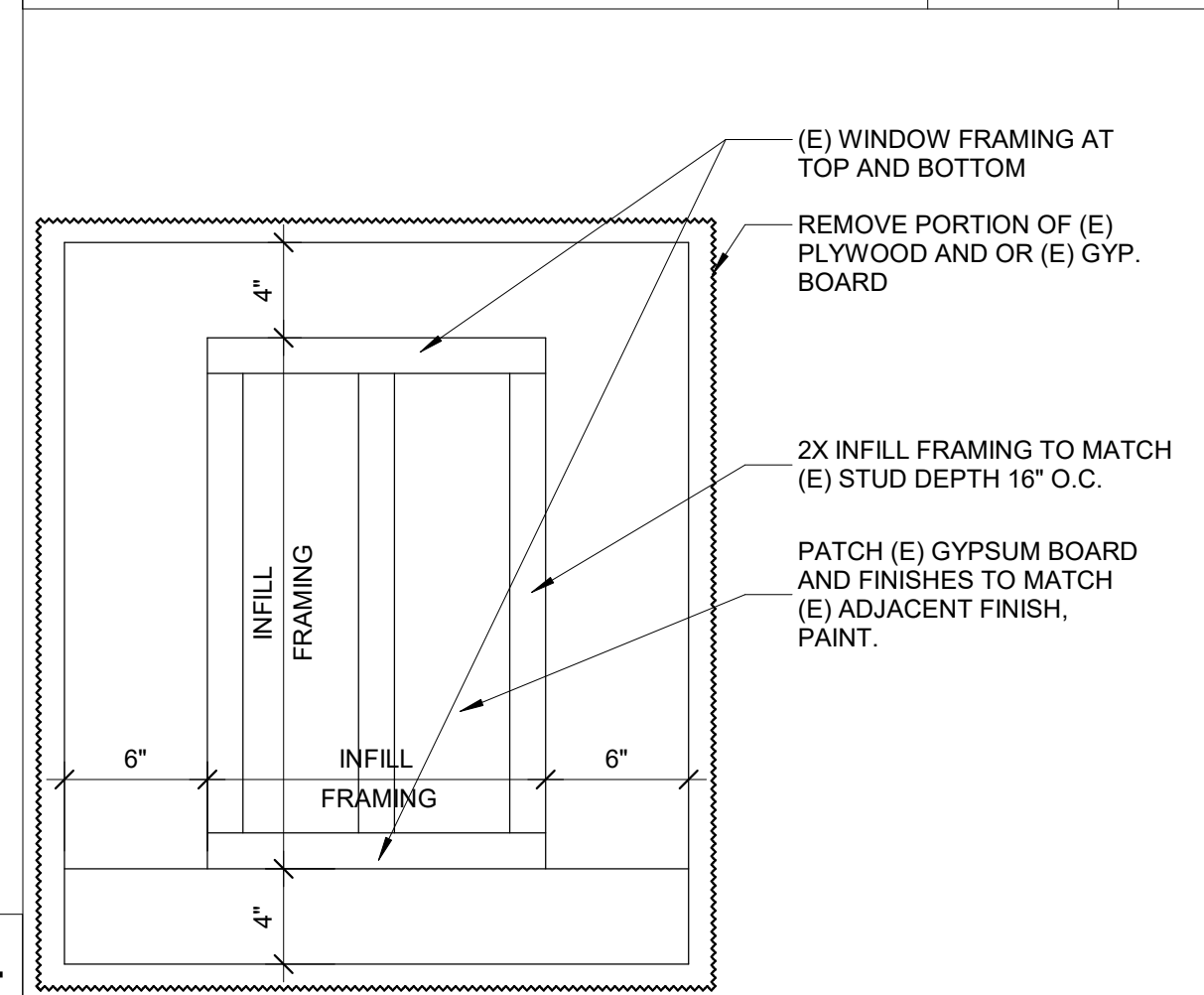
FRAMING AT HMF 3" = 1'-0" 16



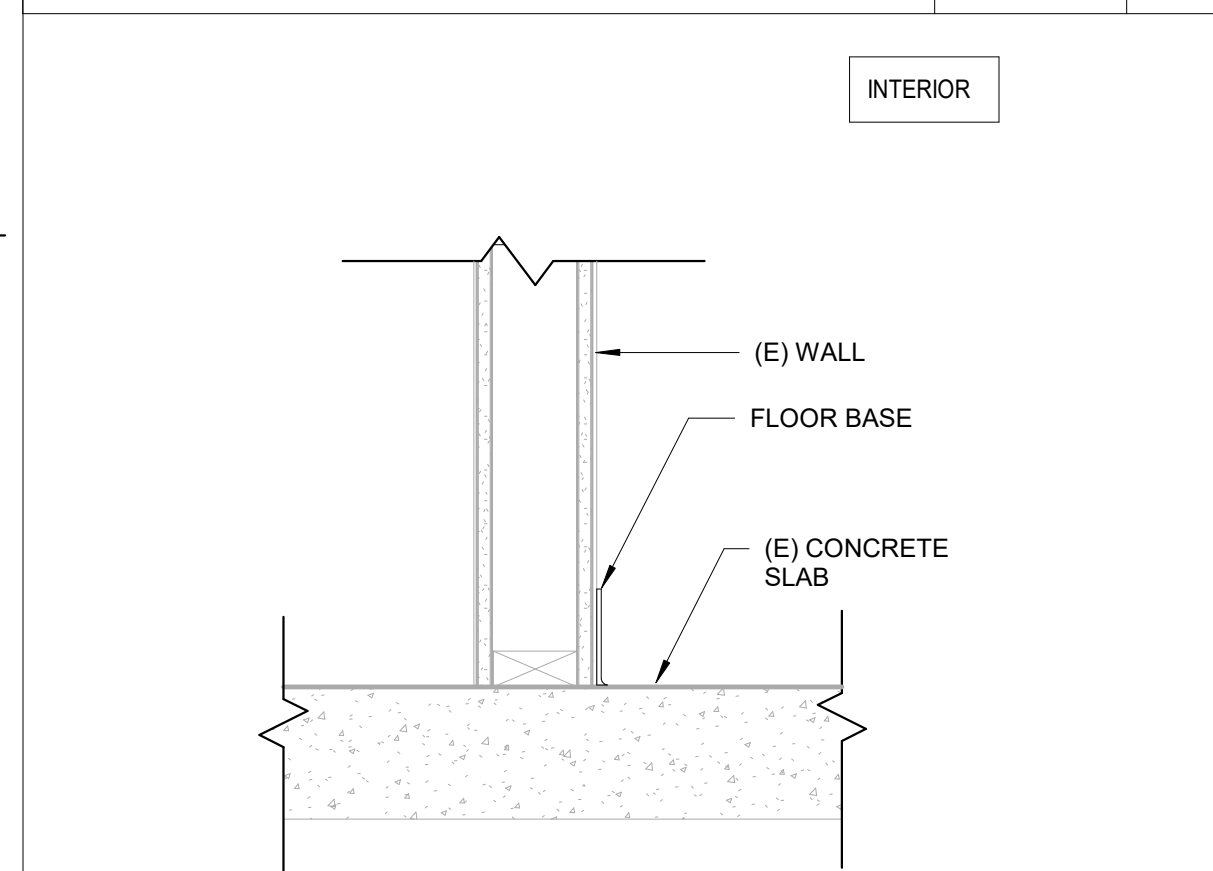
TYPICAL HOLLOW METAL FRAME 3" = 1'-0" 17



VISIBLE LITE 3" = 1'-0" 18



WALL INFILL 1 1/2" = 1'-0" 19

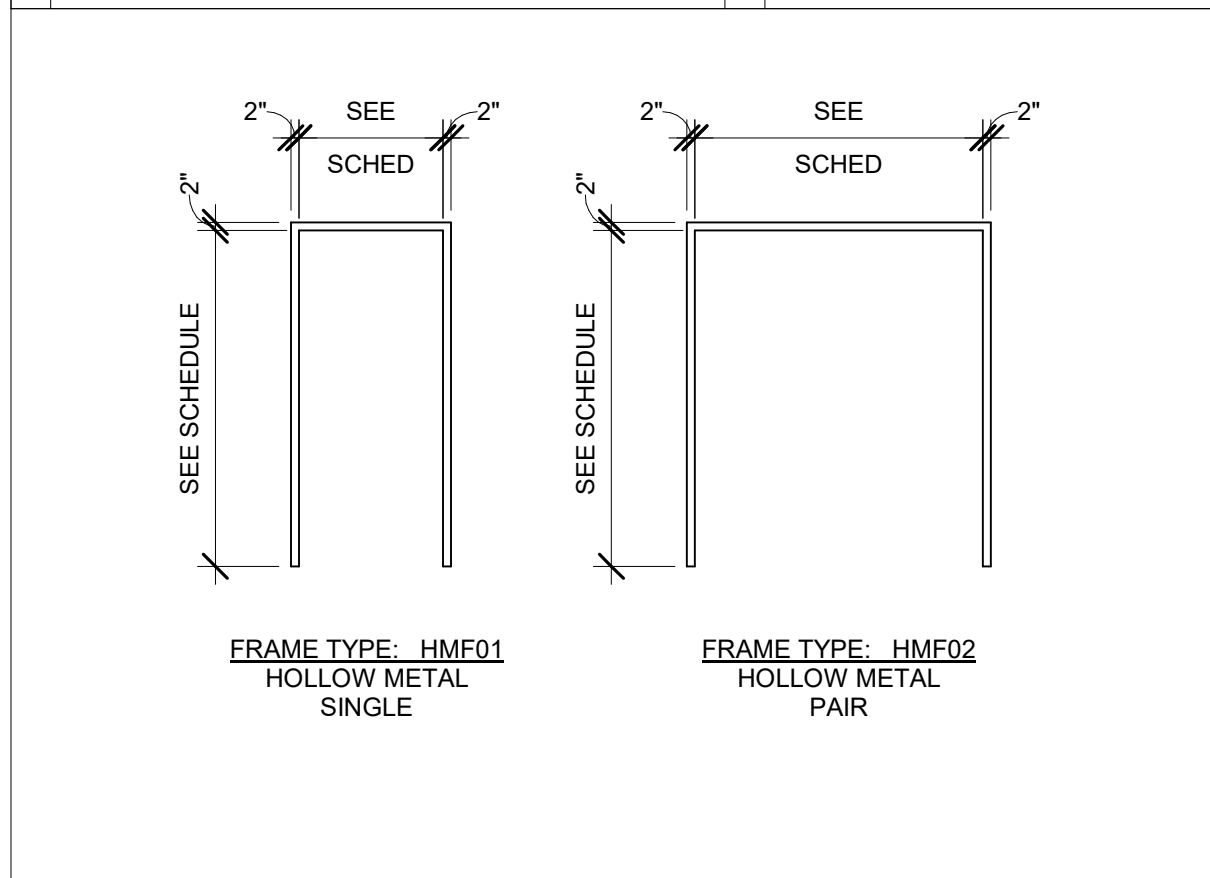


FLOOR BASE 1 1/2" = 1'-0" 20

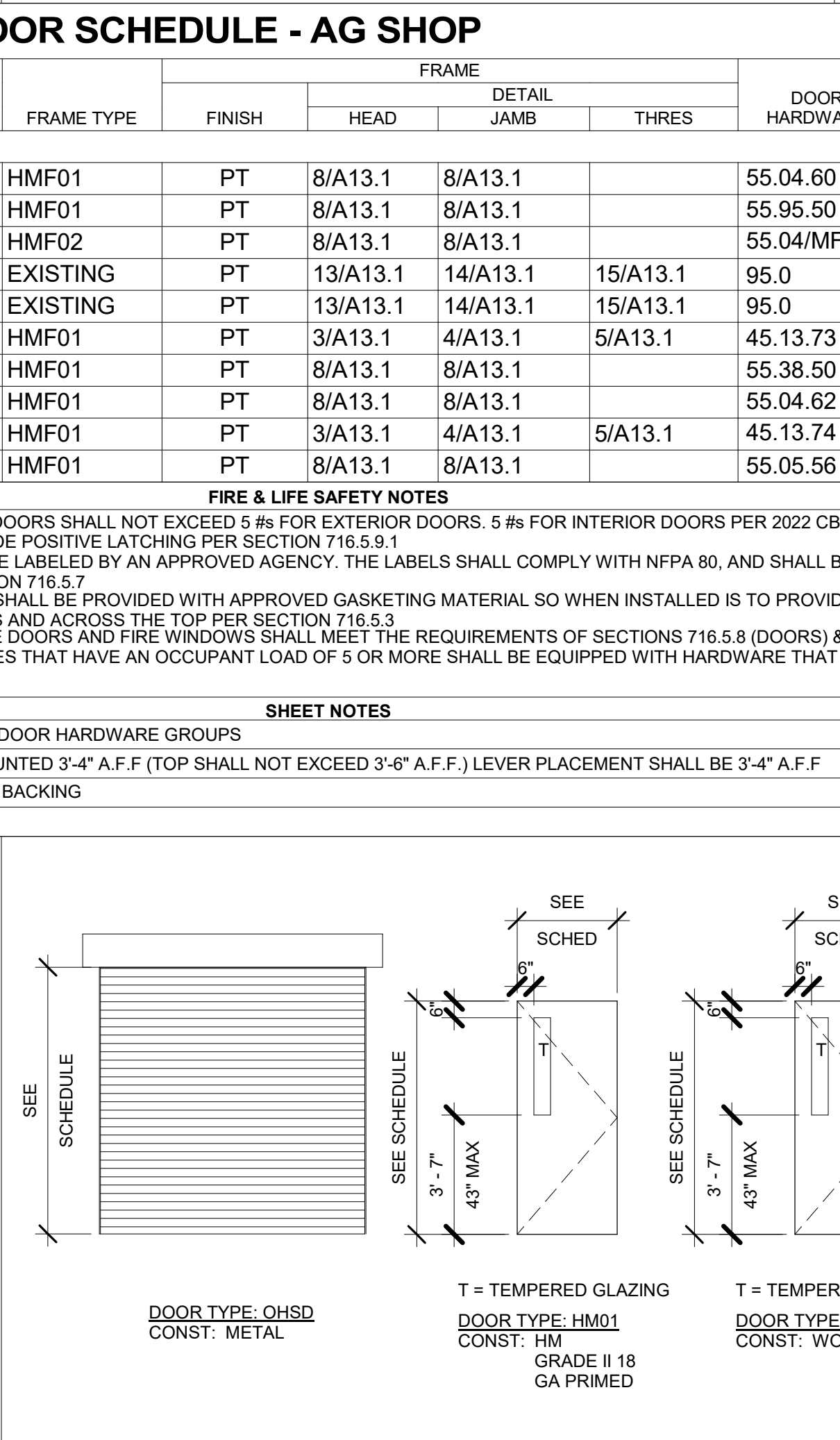
						DOOR	
NUMBER	Finish	DOOR		WIDTH	DOOR	GLAZING	
		HEIGHT					TYPE
K129	PT	7'- 0"	3'- 0"	WD01		GL-1	
K131	PT	7'- 0"	3'- 0"	WD02			
K132	PT	7'- 0"	6'- 0"	WD03			
K901	PT	8'- 0"	10'- 0"	OHSD			
K902	PT	8'- 0"	10'- 0"	OHSD			
K903	PT	7'- 0"	3'- 0"	HM01			
K904	PT	7'- 0"	3'- 0"	WD01		GL-1	
K905	PT	7'- 0"	3'- 0"	WD01		GL-1	
K906	PT	7'- 0"	3'- 0"	HM01		GL-1	
K907	PT	7'- 0"	3'- 0"	WD01		GL-1	

ABBREVIATIONS		FIRE & LIFE SAFETY NOTES	
FINISHES	A. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 #s FOR EXTERIOR DOORS. 5 #s FOR INTERIOR DOORS PER 2022 CBC 11B-404.2.9		
MP1	FACTORY PAINT -COLOR SELECTION -	B. ALL RATED DOORS SHALL PROVIDE POSITIVE LATCHING PER SECTION 716.5.9.1	FIRE DOOR ASSEMBLIES SHALL BE LABELED BY AN APPROVED AGENCY. THE LABELS SHALL COMPLY WITH NFPA 80, AND SHALL BE PERMANENTLY AFFIXED TO THE DOOR OR FRAME PER SECTION 716.5.7
SS	STEEL - FACTORY PAINT -COLOR SELECTION-	C. ALL RATED DOORS SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL SO WHEN INSTALLED IS TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP PER SECTION 716.5.3	
PT	PAINT, COLOR TO BE SELECTED	D. THE DOOR OR FRAME PER SECTION 716.5.7	
		E. ALL RATED DOORS ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL SO WHEN INSTALLED IS TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP PER SECTION 716.5.3	
		F. SIZE OF GLAZED OPENING IN FIRE DOORS AND FIRE WINDOWS SHALL MEET THE REQUIREMENTS OF SECTIONS 716.5.8 (DOORS) & 716.6 (WINDOWS)	ALL DOORS TO ROOMS OR SPACES THAT HAVE AN OCCUPANT LOAD OF 5 OR MORE SHALL BE EQUIPPED WITH HARDWARE THAT IS LOCKABLE FROM THE INSIDE PER CBC 1010.2.8.2

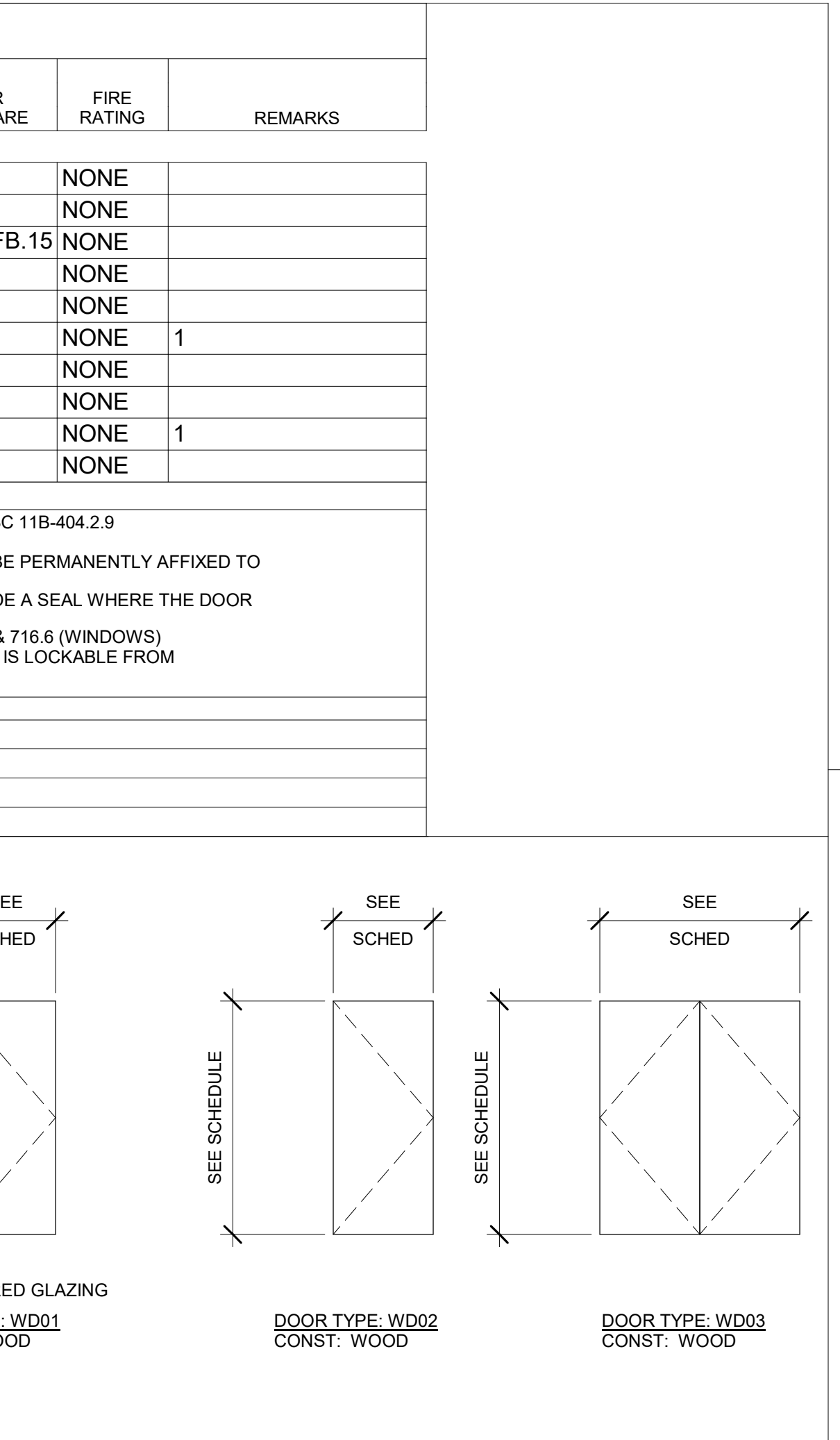
DOOR SCHEDULE REMARKS		SHEET NOTES	
1	PANIC HARDWARE	S1	SEE SPEC SECTION 08 71 00 FOR DOOR HARDWARE GROUPS
		S2	THE PANIC DEVICE SHALL BE MOUNTED 3'-4" A.F.F. (TOP SHALL NOT EXCEED 3'-6" A.F.F.) LEVER PLACEMENT SHALL BE 3'-4" A.F.F.
		S3	PROVIDE DOOR STOPS, PROVIDE BACKING



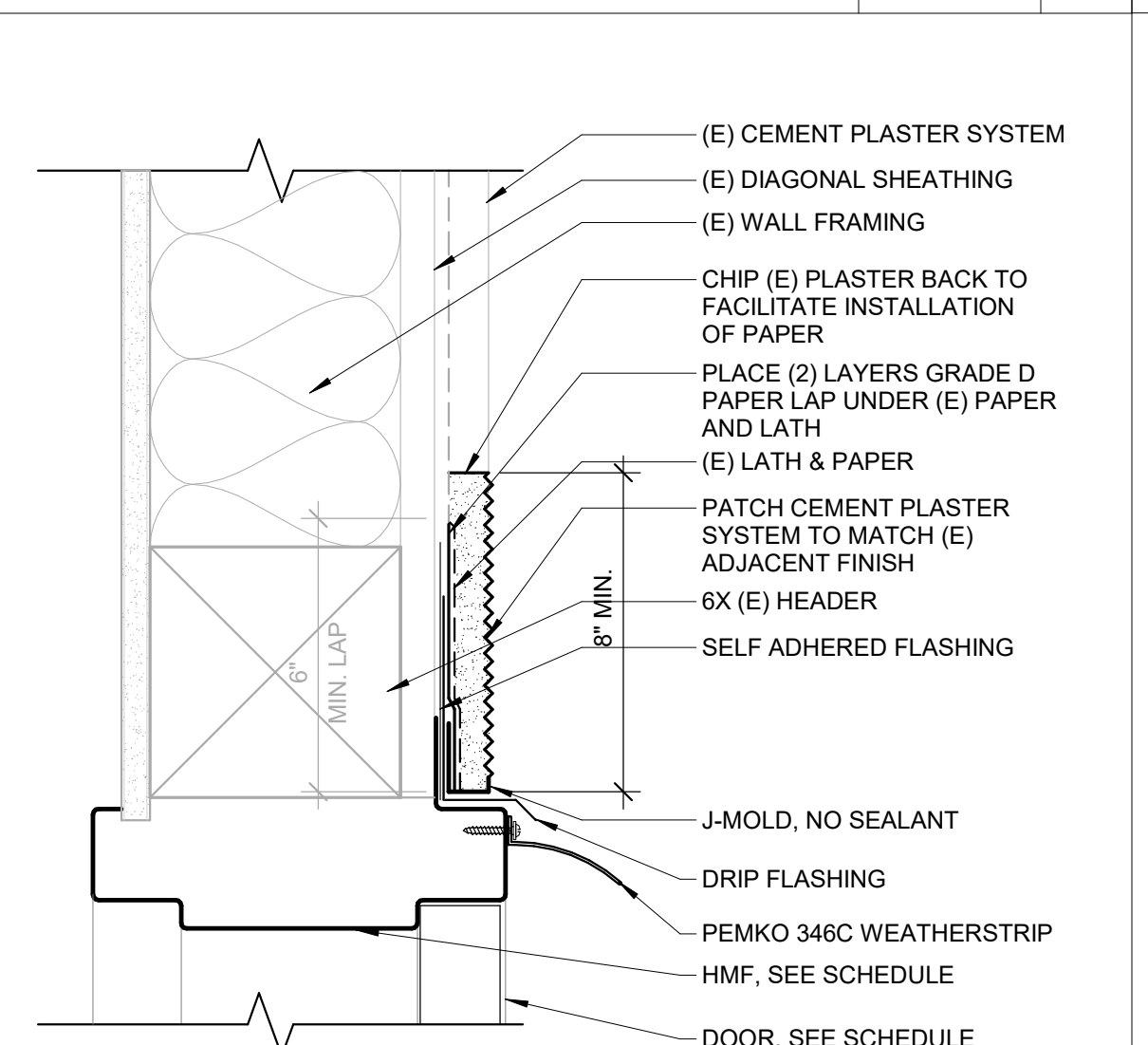
FRAME TYPES 1/4" = 1'-0" 12



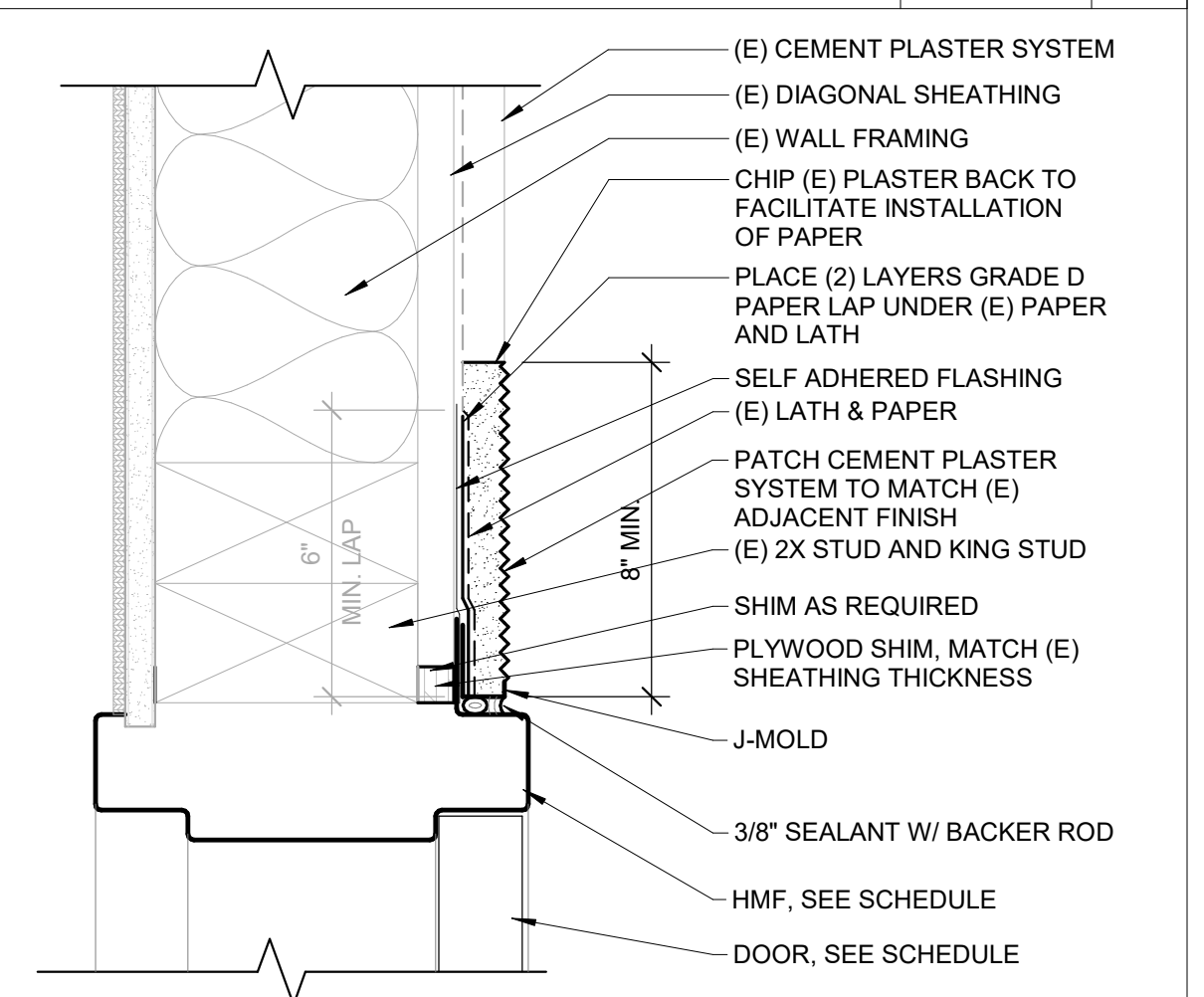
DOOR LEGEND 1/4" = 1'-0" 2



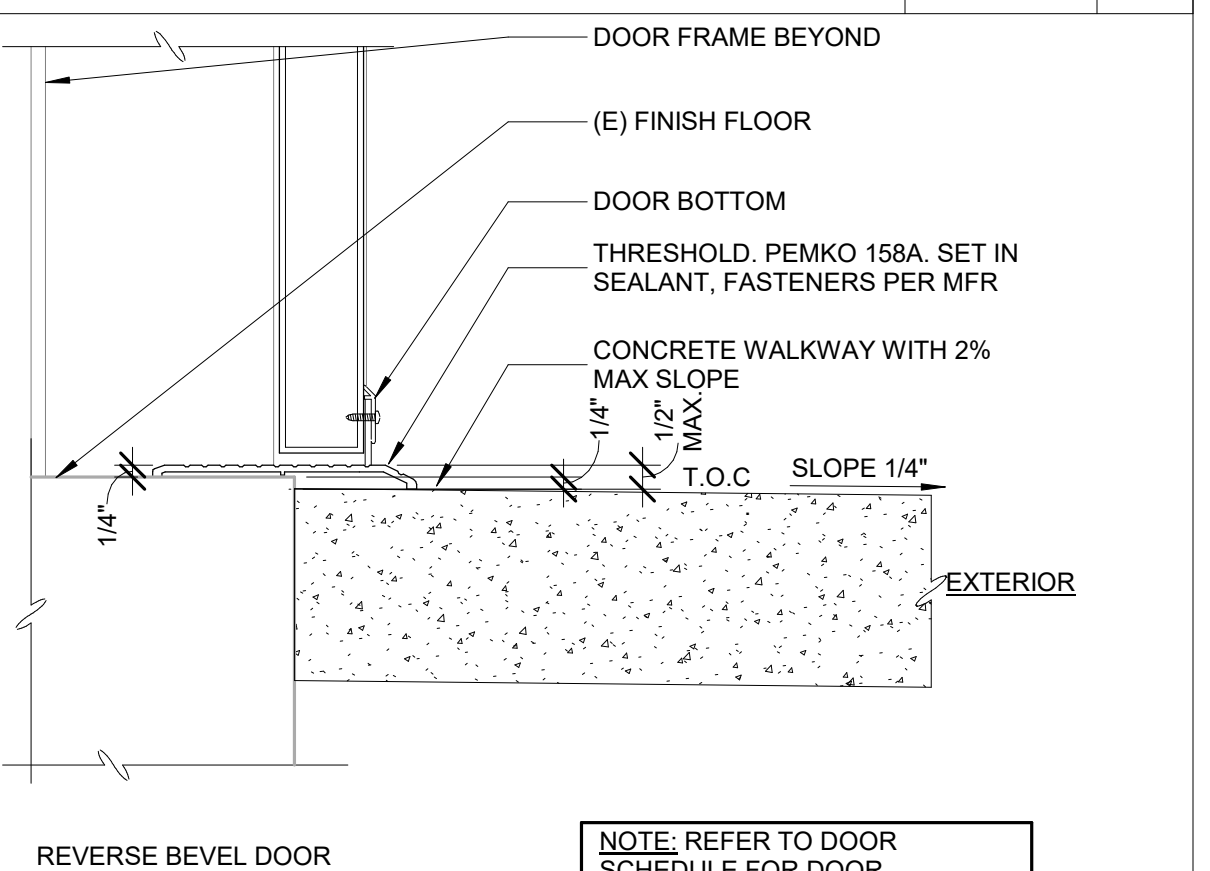
DOOR LEGEND 1/4" = 1'-0" 2



HMF @ (E) WALL - HEAD EXTERIOR 3" = 1'-0" 3



HMF @ (E) WALL JAMB 3" = 1'-0" 4



DOOR THRESHOLD 3" = 1'-0" 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122192 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

DSA APP. NO: 02-122192

COMMUNITY ARCHITECTURE

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

LICENSED ARCHITECT
CHARLES ERIC DANDY
No. C 32876
Exp. 03/31/25
STATE OF CALIFORNIA

SLSD

55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL
AGRICULTURAL MECHANICS SHOP RENOVATION

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STOCKTON, CA 95207

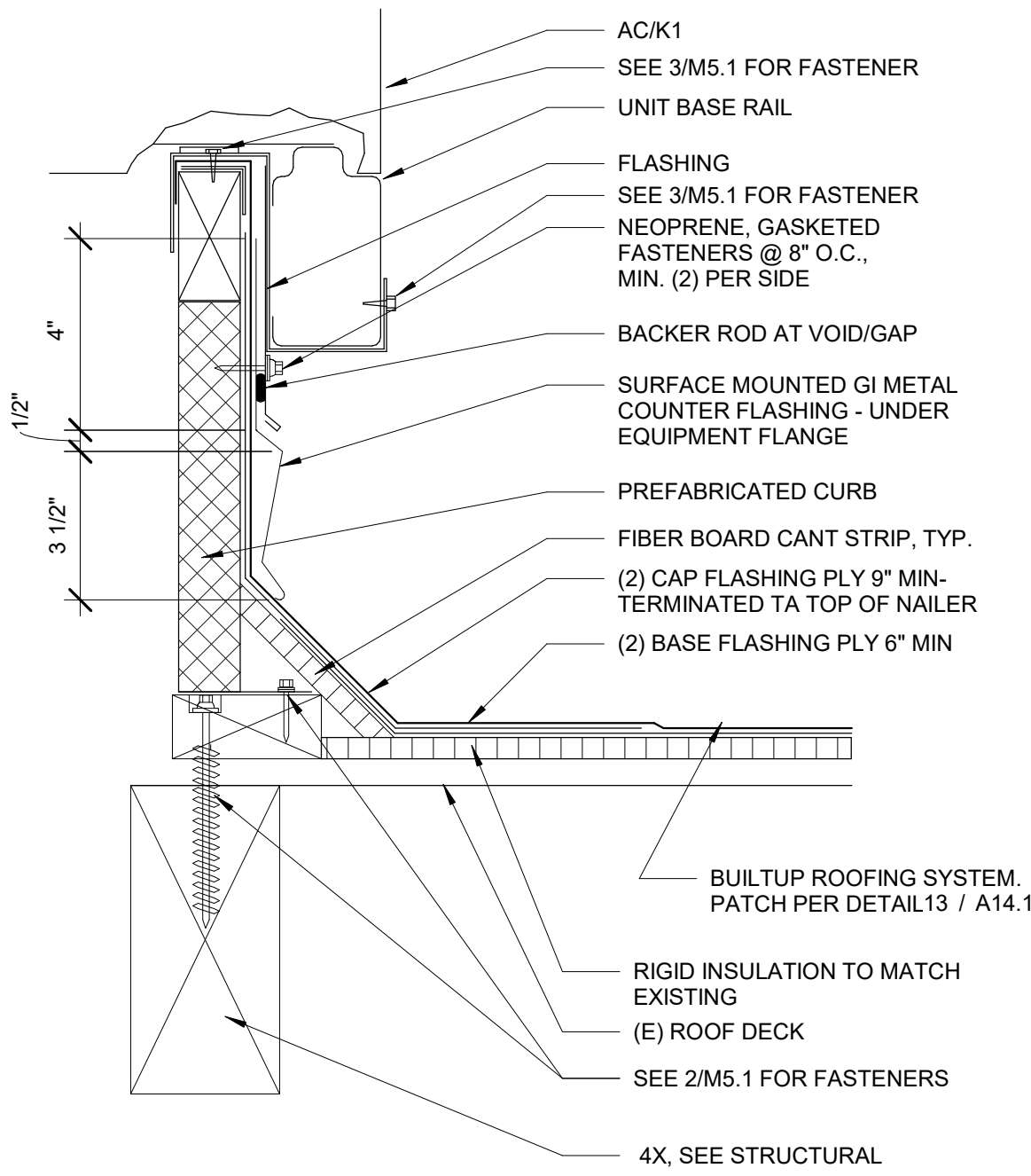
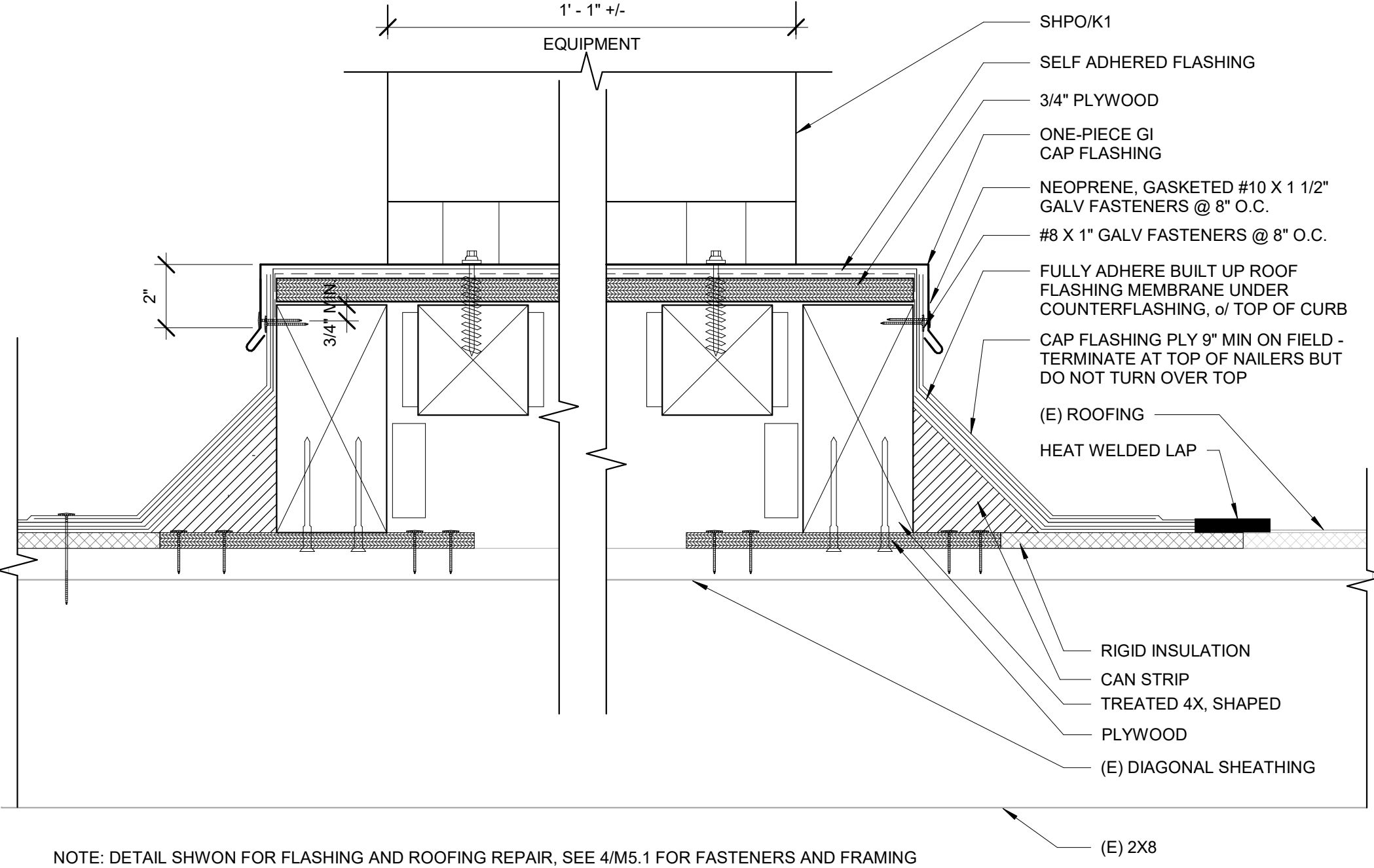
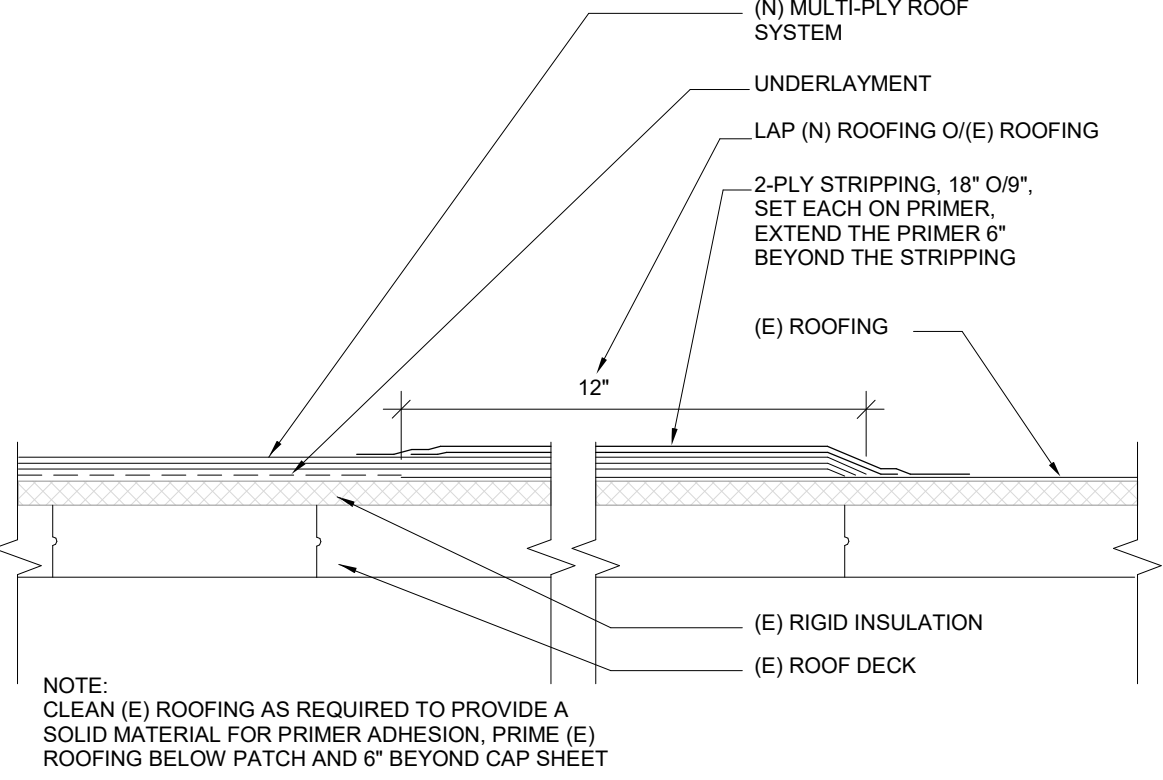
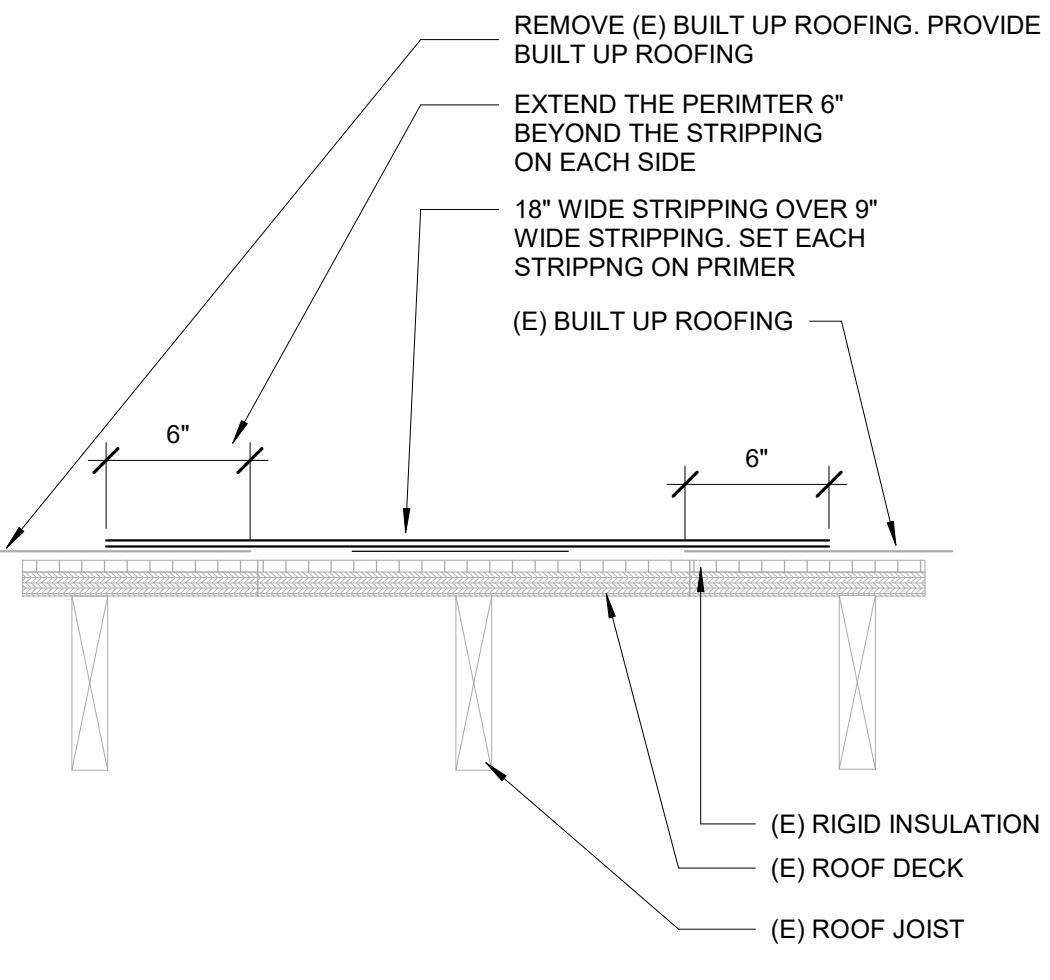
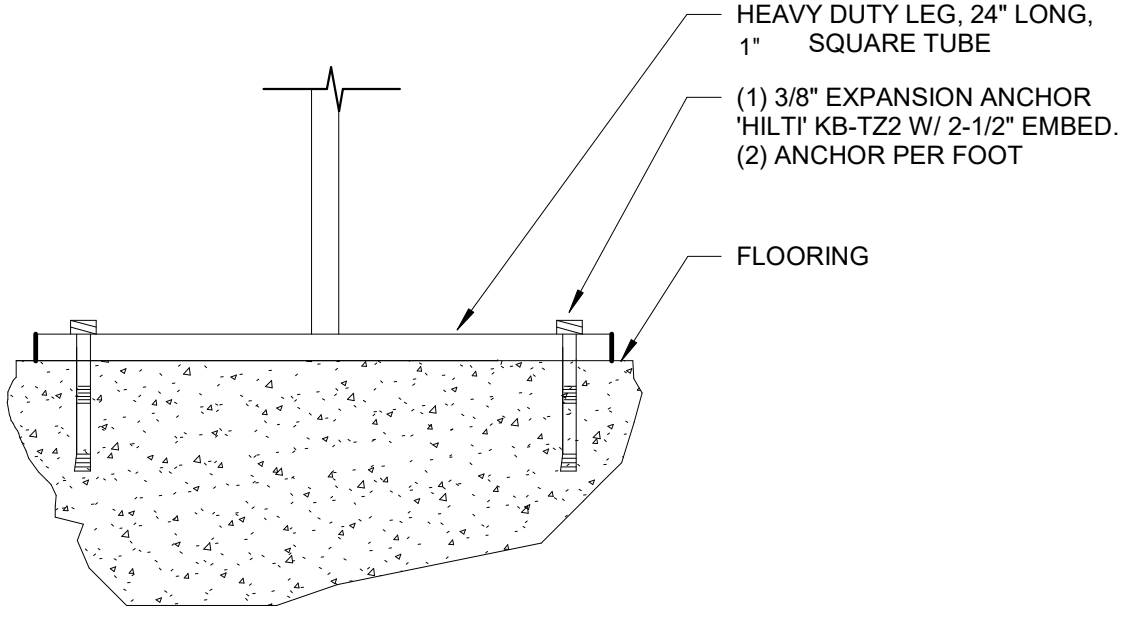
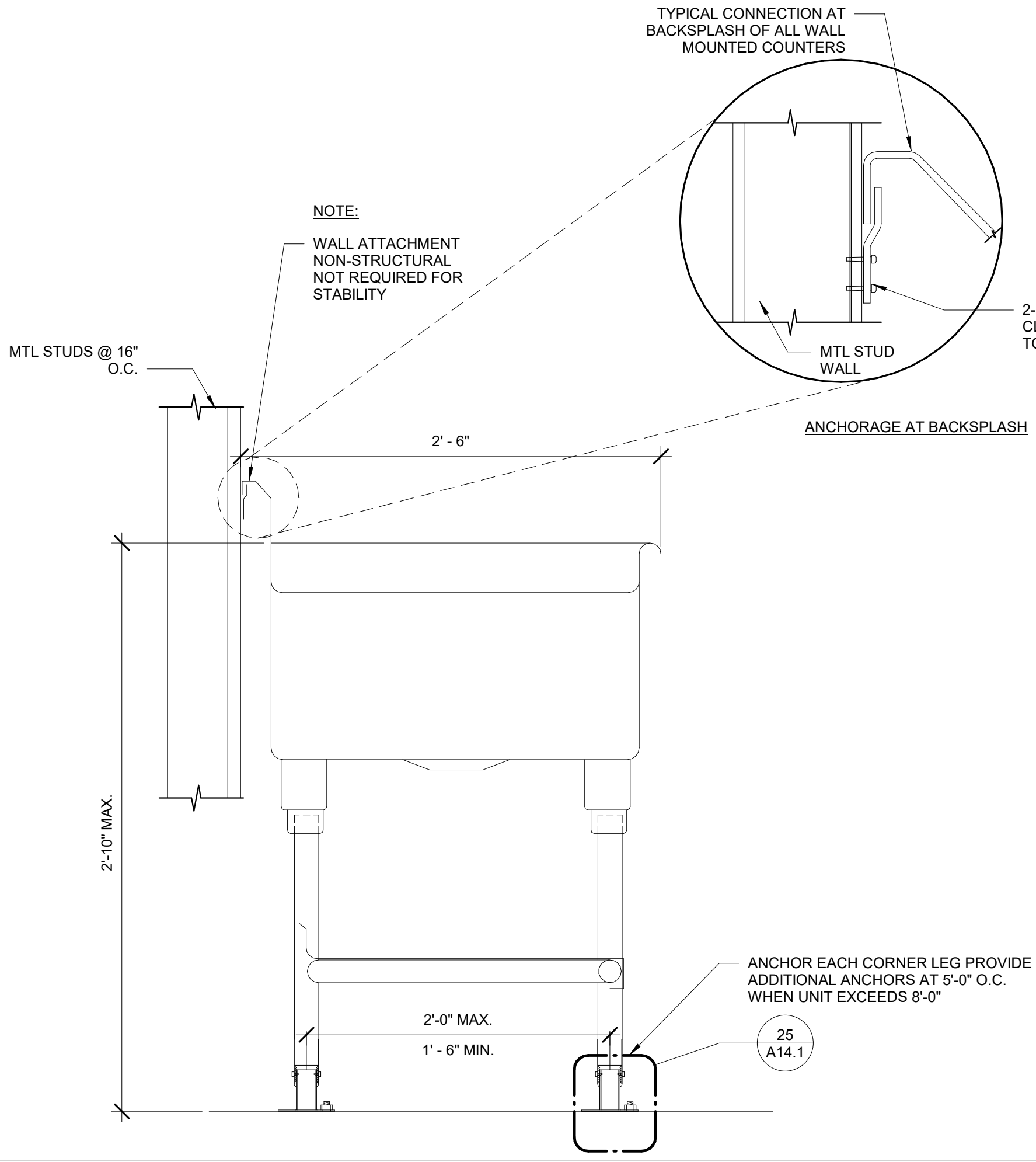
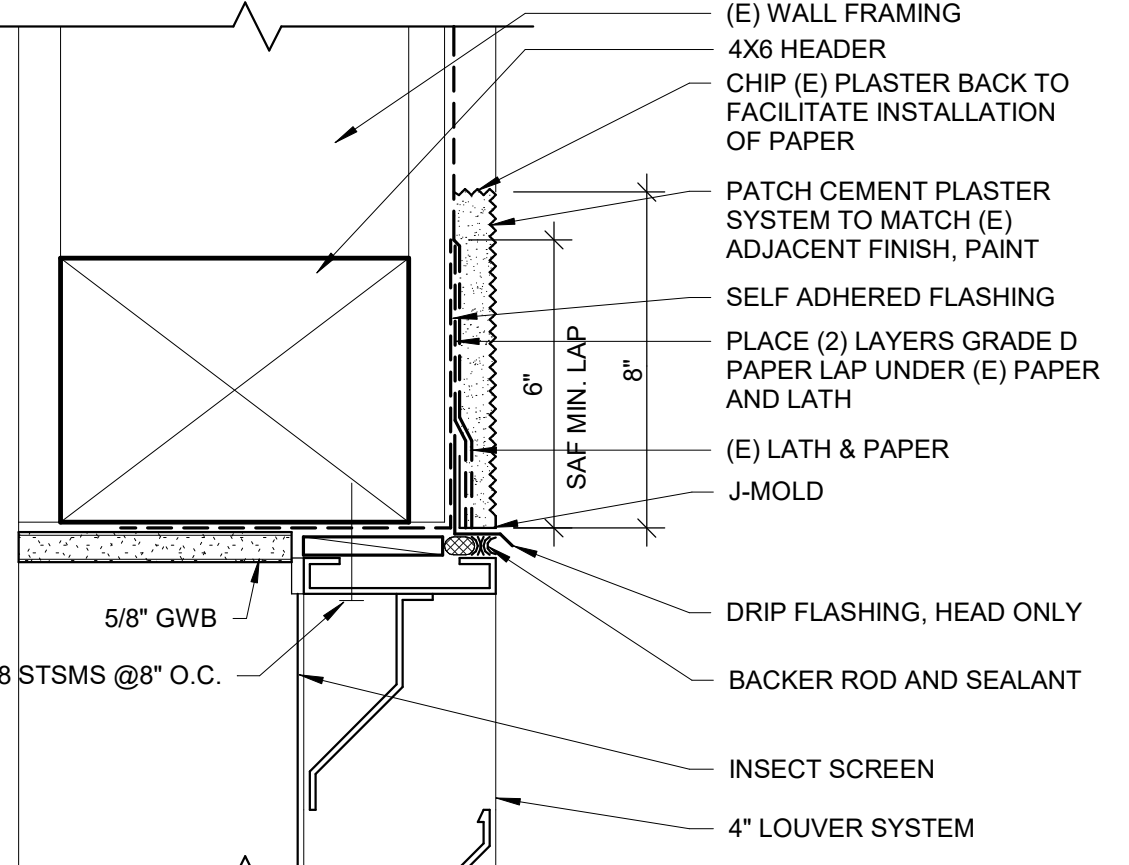
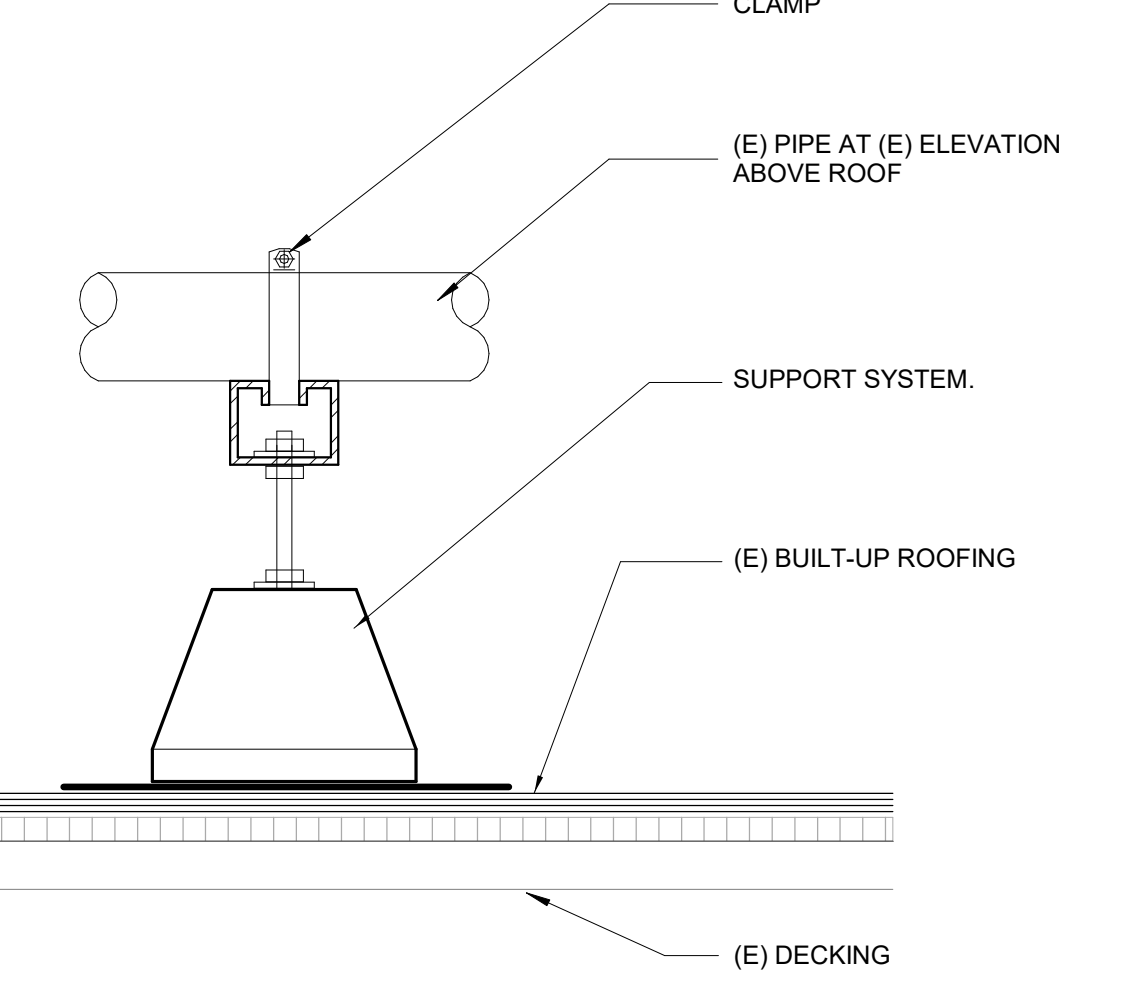
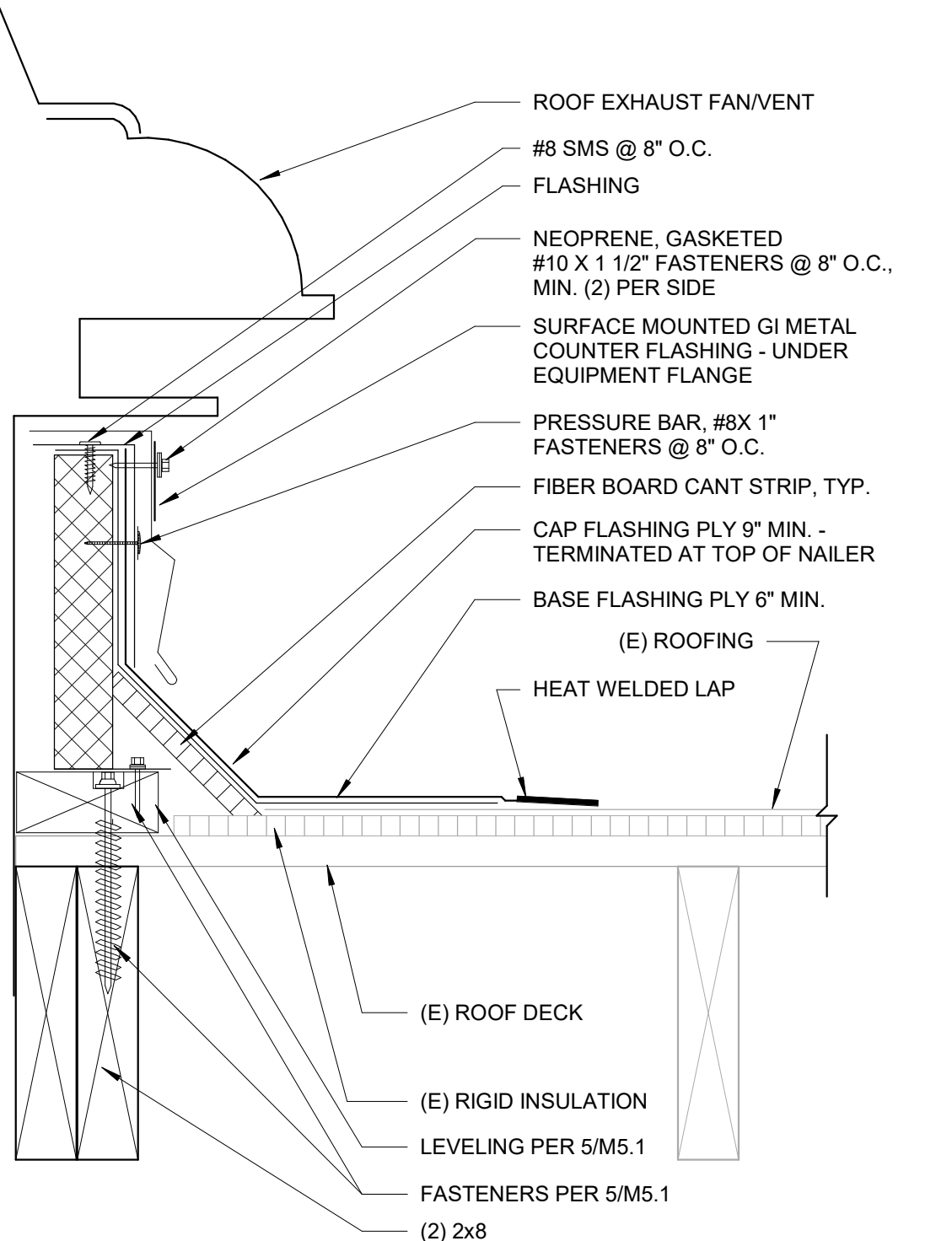
STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS		
No.	Description	Date

PROJECT No.: 2023-014.00
CONSTRUCTION DOCUMENTS

OPENINGS
DETAILS AND
DOOR SCHEDULE

A13.1

NOT USED						NOT USED			NOT USED		
			FLASHING @ HVAC CURB			3" = 1'-0"					
						3" = 1'-0"					
EQUIPMENT PLATFORM 1			NEW TO EXISTING ROOF			3" = 1'-0"			BUILT UP ROOFING JOINT		
						3" = 1'-0"					
FOOT ANCHORAGE DETAIL			FLOOR MOUNTED SINK AT WALL			3" = 1'-0"			LOUVER SILL		
						3" = 1'-0"			ROOF EXHAUST FAN CURB		
INTERMEDIATE PIPE SUPPORT			ROOF EXHAUST FAN CURB			3" = 1'-0"					

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CONSTRUCTION DOCUMENTS

ROOF DETAILS

A14.1

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLTS	LFRS	LATERAL FORCE RESISTING SYSTEM
AC	ASPHALTIC CONCRETE	LH	LONG LEGS
AFF	ABOVE FINISH FLOOR	LLV	LONG LEGS VERTICAL
BN	BOUNDARY NAILING	LP	LOW POINT
BEV	BEVELED BOTTOM OF CONCRETE	LS	LONG LEGS
BOC	BOREHOLE BOTTOM OF FOOTING	LT WT	LONG LEGS WEIGHT
BOF	BOREHOLE BOTTOM OF FOOTING	LVL	LAMINATED VENEER LUMBER
BOF	BOREHOLE BOTTOM OF FOOTING	MU	MECHANICAL UNIT
CJP	CAST IN PLACE CONSTRUCTION	(N)	NOT IN CONTRACT
CJ	CAST IN PLACE CONSTRUCTION	NG	NOT IN CONTRACT
CJP	CAST IN PLACE CONSTRUCTION	NS	NOT SHIRING GROUT
CL	CENTER LINE	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OSB	ORIENTED STRAND BOARD
CONN	CONNECTION	ONS	OPEN WEB STEEL GIRDER
CONT	CONTINUOUS	ONSJ	OPEN WEB STEEL JOIST
DF	DOUGLAS FIR	OH	OPPOSITE HAND
(E)	EXISTING	OH	OPPOSITE HAND
EF	EACH FACE	PSF	PRECAST CONCRETE
EN	EACH END	PSF	PRECAST CONCRETE
EJ	EDGE OF SLAB	PSI	POUNDS PER SQUARE INCH
ES	EDGE NAILING	PT	PRESSURE TREATED
ES	EDGE NAILING	PN	PLYWOOD
FA	FRAMING ANCHOR	R	RADIUS
FD	FLOOR DRAIN	SAD	SEE ARCHITECTURAL DRAWINGS
FF	FINISH FLOOR	SAD	SEE ARCHITECTURAL DRAWINGS
FLS	FLANGE	SDST	SELF DRILLING SELF TAPPING
FN	FIELD NAILING	SDST	SELF DRILLING SELF TAPPING
FOC	FACE OF CONCRETE	SLH	SIMILAR
FOM	FACE OF MASONRY	SLC	SLIP CONTROL JOINT
FOS	FACE OF STUD	SLH	SHORT LEG
GLB	GLUE LAMINATED BEAM	SLV	SHORT LEG
GSM	GALVANIZED SHEET	SOS	SLAB ON GRADE
GT	GIRDER TRUSS	SP	STRUCTURAL PLYWOOD
HAS	HEADED ANCHOR STUD	SS	STAINLESS STEEL
HDS	HOT DIPPED GALVANIZED	T24	TITLE 24 CALIFORNIA CODE
HP	HIGH POINT	TOC	TOP OF CONCRETE
HSS	HIGH STRENGTH BOLT	TOF	TOP OF FOOTING
HSS	HOLLOW STRUCTURAL SECTION	TOF	TOP OF FRAMING
HT	HIP TRUSS	TOF	TOP OF MASONRY
ID	INSIDE DIAMETER	TOF	TOP OF SLAB
JT	JACK TRUSS	TOS	TOP OF STEEL
		TOW	TOP OF WALL
		UNO	UNLESS NOTED OTHERWISE
		VIF	VERIFY IN FIELD
		WFS	WATER STOP
		WFS	WELDED WIRE FABRIC
		WFS	WEAKENED PLANE JOINT

EXPANSION ANCHOR

ADHESIVE ANCHOR NOTES

- WHERE "EPOXY" OR "EXPANSION" ANCHORS ARE INDICATED IN DRAWINGS THESE NOTES & SCHEDULES SHALL APPLY.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE ICC REPORT.
- PERIODIC SPECIAL INSPECTION IS REQUIRED, UNLESS NOTED OTHERWISE IN THESE DRAWINGS. VERIFICATION OF THE FOLLOWING IS REQUIRED DURING SPECIAL INSPECTION:
 - ANCHOR TYPE AND DIMENSIONS.
 - CONCRETE TYPE AND COMPRESSIVE STRENGTH.
 - HOLE DIMENSIONS AND HOLE CLEANING PROCEDURES.
 - ANCHOR SPACING, EDGE DISTANCES, CONCRETE/MASONRY THICKNESS, AND ANCHOR EMBEDMENT DEPTH.
 - TIGHTENING TORQUE.
 - COMPLIANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
- WHEN INSTALLING DRILLED IN ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS.
- ALL POST INSTALLED EXPANSION & ADHESIVE ANCHORS SHALL BE TESTED TO THE VALUES GIVEN IN THE SCHEDULE.

EXCEPTIONS:

 - ILL BOLLING APPLICATIONS: 10% OF THE ANCHORS SHALL BE TESTED.
 - NON STRUCTURAL APPLICATIONS: 50% OF THE ANCHORS SHALL BE TESTED.IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

ADHESIVE ANCHORS

REBAR/BOLT SIZE	MINIMUM EMBEDMENT*	MINIMUM CONCRETE THICKNESS	MAX EMBEDMENT	MINIMUM SPACING AND EDGE DISTANCE	FULL TEST VALUE AT MIN EMBEDMENT (LBS)
#3 OR 3/8"	2 3/8"	3 5/8"	7 1/2"	1 7/8"	1600
#4 OR 1/2"	2 3/4"	4"	10"	2 1/2"	2250
#5 OR 5/8"	3 1/8"	4 5/8"	12 1/2"	3 1/8"	2900
#6 OR 3/4"	3 1/2"	5 1/2"	15"	3 3/4"	3600
#7 OR 1 1/8"	3 1/2"	5 1/2"	17 1/2"	4 3/8"	4000
#8 OR 1"	4"	6 1/4"	20"	5"	4850

- NOTES:
- MINIMUM F'c = 2500 PSI.
 - DESIGN BASED ON CRACKED CONCRETE.
 - VALUES FOR REBAR, ASTM A615-GRADE 60 MIN.
 - ASSUMES ALL HOLES TO BE DRILLED BY A HAMMER DRILL WITH A CARBIDE BIT.
 - *FOR DEEPER EMBEDMENTS THE MINIMUM MEMBER THICKNESS MUST BE INCREASED BY THE SAME AMOUNT.
 - FULL TEST VALUES FOR EMBEDMENTS GREATER THAN MIN ARE INDICATED IN PLANS.

EXPANSION ANCHORS

SIZE	NOMINAL EMBEDMENT	MINIMUM CONCRETE THICKNESS	MINIMUM EDGE DISTANCE	TORQUE TEST VALUE CARBON (FT-LBS)	TORQUE TEST VALUE STAINLESS STEEL (FT-LBS)
1/4"	1 3/4"	3 1/4"	1 1/2"	4	6
3/8"	2 1/2"	4"	4 3/8"	30	30
1/2"	2 1/2"	4"	5 1/2"	50	40
5/8"	3 3/4"	5 1/2"	11 1/2"	40	60
3/4"	4 1/2"	6"	10"	110	125

- NOTES:
- MINIMUM F'c = 2500 PSI.
 - DESIGN BASED ON CRACKED CONCRETE.
 - SPACING BETWEEN ANCHORS IS 12 DIAMETERS OR MORE.

WOOD:

- (SUBMIT SHOP DRAWINGS BEFORE FABRICATION OF GLU-LAM MEMBERS)
- ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
 - DOUGLAS FIR- LARCH WESTERN LUMBER GRADING RULES NWPA, U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD.
 - MINIMUM GRADES SHALL BE:
 - STRUCTURAL FRAMING DFIR, TYPICAL MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
 - STRUCTURAL PLYWOOD (UNO) MALL, PLYWOOD, 15/32" APA RATED STRUCT 1 SHEATHING, 5 PLY 32/16, EXPOSURE 1, ROOF PLYWOOD, 15/32" APA RATED STRUCT 1 SHEATHING, 5 PLY 32/16, EXPOSURE 1.
 - WALLS SHALL HAVE DOUBLE TOP PLATES, LAPPED AT WALL & PARTITION INTERSECTION WITH 3-16d NAILS. BRIDGE UPPER AND LOWER PLATES WITH MIN BRIDGE AS SHOWN IN TYPICAL DETAIL UNO.
 - PROVIDE SOLID BLKS BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS.
 - NOTCHING OF WOOD JOISTS IS NOT PERMITTED UNLESS APPROVED BY THE SEOR. HOLES BORED IN JOISTS AND RAFTERS SHALL NOT EXCEED ONE FORTH THE DEPTH OF THE MEMBER DEPTH AND SHALL BE THROUGH CENTERLINE OF THE MEMBER.
 - HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
 - HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE UNTHREADED SHANK, THE REMAINDER OF THE HOLE SHALL BE 40% TO 100% OF THE SHANK DIAMETER IN WOOD.
 - LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
 - ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD, APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KNICK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x 1/8"
5/8"	3" DIA x 1/4"	3" SQ x 25"
3/4"	3" DIA x 1/4"	3" SQ x 3/8"
7/8"	3 1/2" DIA x 5/16"	3" SQ x 3/8"
1"	4" DIA x 3/8"	3 1/2" SQ x 3/4"

10. ALL BOLT & LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.

11. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.

12. BLOCK SP JOINTS WITH 3x4 PLAT BLOCKING WHERE NOTED ON FRAMING PLANS AND WITH BLOCKING SAME SIZE AS STUDS AT WALLS.

13. CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" C/C.

14. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEN TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.

2x & 8x MEMBERS U HANGERS
4x MEMBERS HJ HANGERS
6x MEMBERS BA HANGERS
1 JOIST MEMBERS BA HANGERS
8x LAM MEMBERS LGS HANGERS

15. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS. FILL ALL HOLES OF METAL HARDWARE WITH SPECIFIED FASTENERS, UNO.

16. WOOD SYMBOLS:
☒ CONTINUOUS ☒ BLOCKING

17. NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW.

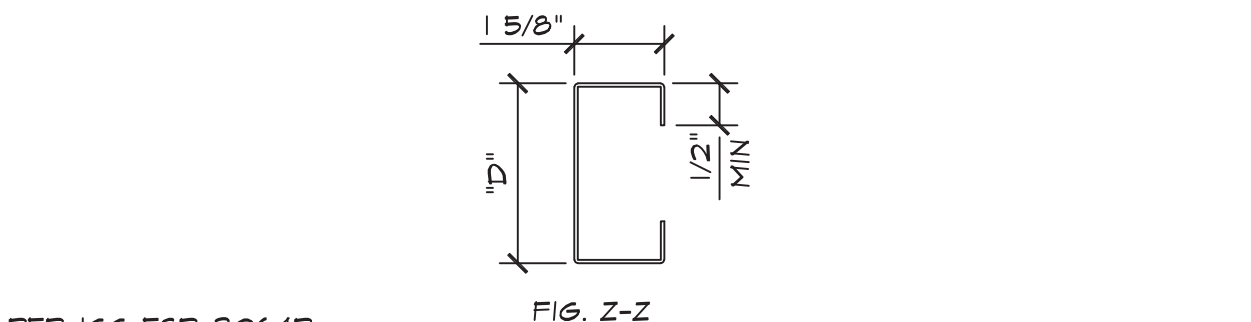
MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.182"	3 1/2"
20d	20d COMM	0.192"	4"

18. ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
19. SILL BOLTS TO HAVE SQUARE STEEL WASHERS AS INDICATED IN TABLE ABOVE.
20. ALL WOOD MEMBERS IN DIRECT CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. MATERIAL TREATED W/ ARSENIC CONTENT ARE NOT PERMITTED (CCA & ACA).
21. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE IN DRAWINGS.

SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING	
t' < 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < t' < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	
t' < 3/8"	#8 FLATHEAD SDS @ 6" O.C.	#8 FLATHEAD SDS @ 12" O.C.	COLD FORMED STEEL
3/8" < t' < 3/4"	#8 FLATHEAD SDS @ 6" O.C.	#8 FLATHEAD SDS @ 12" O.C.	

COLD FORMED METAL STUD & JOIST NOTES:

GAUGE	20	18	16	14
MIN. THICK	0.0330	0.0430	0.0540	0.0680
DEPTH 'D'	8x 1x	8x 1x	8x 1x	8x 1x
2 1/2"	0.188	0.232	0.242	0.246
3 5/8"	0.304	0.352	0.378	0.380
4"	0.346	0.412	0.446	0.449
6"	0.548	0.712	0.736	0.736
8"	0.846	1.158	1.172	1.172
10"	-	1.605	1.940	1.940
12"	-	-	2.622	2.622



- PER ICC ESR-3064P
- ALL FRAMING SHALL BE FORMED FROM CORROSION RESISTANT STEEL CONFORMING TO ASTM A-653, W/ MIN YIELD STRENGTH OF 33 KSI FOR 18 GA & LIGHTER & 50 KSI FOR 16 GA & HEAVIER.
 - METAL STUDS SHALL BE OF SIZE AND GAUGE SHOWN ON DRAWINGS W/ THE MIN EFFECTIVE SECTION PROPERTIES SHOWN IN THE TABLE ABOVE, & CHANNEL TYPE SECTIONS W/ STIFFENED FLANGES AS SHOWN IN FIG. Z-2.
 - MIN THICKNESS SHOWN IN TABLE FOR THE GAUGE SPECIFIED REPRESENTS 95% OF DESIGN THICKNESS PER 2016 AISI CODE, SECTION B7.1.
 - METAL FRAMING SHALL BE PER ICC ESR NO. 3064P. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AGENCY APPROVAL FOR ANY SUBSTITUTIONS.
 - WELDING SHALL BE IN ACCORDANCE W/ AWS D1.3 STRUCTURAL WELDING CODE - SHEET STEEL. WELDERS SHALL BE AWS CERTIFIED. WELDING RODS: E-70 SERIES.
 - METAL TRACKS SHALL BE SAME GAUGE AS STUDS WHICH IT SUPPORTS, UNPUNCHED, W/ MIN FLANGE WIDTH OF 1 1/4", EXCEPT WHERE SLOTTED SLIP TRACKS ARE REQD UNLESS NOTED OTHERWISE ON PLANS. SEE TYPICAL DETAILS.
 - METAL STUDS SHALL NOT HAVE PUNCH-OUTS CLOSER THAN 12" FROM THE END OF THE STUD TO THE CENTER OF THE PUNCH-OUT.
 - SIZES INDICATED IN THESE DRAWINGS ASSUME THE COMPRESSION FLANGE IS ADEQUATELY BRACED BY THE WALL FINISH OR OTHER APPROVED METHOD, AT 4'-0" MIN O.C., FOR FULL HEIGHT OF STUD.
 - STUD TO STUD GAINS TO BE MADE W/ (4) #10 SMS & EA CONTACT TYP UNO.
 - UNLESS INDICATED OTHERWISE BRACING OF METAL STUDS TO BE PER ICC ESR-3064P.
 - FRAMING SYSTEMS ARE NOT FULLY DETAILED ON THE DRAWINGS, BUT ARE GIVEN TO PROVIDE DESIGN INTENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FABRICATE & INSTALL THE COLD FORMED METAL FRAMING ASSEMBLIES IN ACCORDANCE WITH THESE DOCUMENTS AND THE APPLICABLE CODE. ALL SUBSTITUTIONS FROM THE APPROVED DOCUMENTS MUST BE APPROVED BY ENGINEER AND DSA PRIOR TO INSTALLATION.
 - STUDS SHALL BE MIN 18GA (43 MILS) THICKNESS @ 16" O.C SPACING UNO IN THESE DRAWINGS. 12" STUDS SHALL BE MIN. 16ga (54 MILS) THICKNESS @ 16" O.C SPACING UNO. IN THESE DRAWINGS.

CONCRETE AND REINFORCING STEEL:

- (SUBMIT REBAR SHOP DRAWINGS PRIOR TO FABRICATION)
- CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19 AS MODIFIED BY CBC.
 - THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS:

SLAB INFILL	3000 PSI (50 PCF)
-------------	-------------------
 - CEMENT SHALL CONFORM TO ASTM C150-18, TYPE II - V.
 - CONCRETE AGGREGATES:
 - NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33-18.
 - REINFORCING SHALL CONFORM TO ASTM A615 - GRADE 60 UNO
 - WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-18 USINS PROPER LOW HYDROGEN ELECTRODES. TACK WELDING TO REBAR IS STRICTLY PROHIBITED. SEE REBAR WELDING NOTE.
 - REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED ACCORDING TO "MANUAL OF STANDARD PRACTICE OF REINFORCED CONCRETE CONSTRUCTION" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
 - WIRE FABRIC SHALL CONFORM TO ASTM A1064-17.
 - DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF MAIN BARS AND DENOTE CLEAR COVERAGE. CONCRETE COVERAGE SHALL BE AS FOLLOWS, UNO ON DRAWINGS:

CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS)	3"
CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS	2"
SLABS (ON GROUND)	POSITION IN CENTER OF SLAB
 - ALL BARS SHALL HAVE A CLASS B MINIMUM SPlice LAP UNO. SEE TABLE IN THESE DRAWINGS.
 - NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY DETAILED.
 - REFER TO ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ALL MOULDS, GROOVES, ORNAMENTS, CLIPS AND GROUNDS TO BE CAST IN CONCRETE.
 - CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LANTANCE REMOVED FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SANDBLASTING OR HOISING THE SURFACE 4 TO 6 HOURS AFTER THE POUR WITH A FINE SPRAY.
 - REMOVE ALL DEBRIS FROM THE FORMS BEFORE PLACING ANY CONCRETE.
 - REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE. OBTAIN APPROVED TRADES PRIOR TO PLACING CONCRETE.
 - MAXIMUM FREE FALL OF CONCRETE SHALL BE 4'-0".
 - NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE COVERED W/ CONG.
 - CONCRETE MIX DESIGN SHALL BE PREPARED PER CBC CHAPTER 19 AND REVIEWED BY THE STRUCTURAL ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO PLACEMENT.
 - NOTIFY THE STRUCTURAL ENGINEER 48 HOURS PRIOR TO PLACING CONCRETE.
 - CONTRACTOR TO SUBMIT PROPOSED CONTROL AND CONSTRUCTION JT LOCATION TO STRUCTURAL ENGINEER PRIOR TO CONCRETE POUR. SPACING SHALL BE BETWEEN 24 AND 30 TIMES THE SLAB THICKNESS MAXIMUM.

POWDER ACTUATED FASTENERS (SHOT PINS)

- THESE NOTES GOVERN ALL CONDITIONS CALLED OUT ON THE PLANS AS "SHOT PINS" UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL SHOT PINS SHALL BE AS MANUFACTURED BY HILTI INC. OR DENALT. REFERENCE SHALL BE MADE TO THE "PRODUCT TECHNICAL GUIDE" FOR ADDITIONAL INFORMATION ICC ESR 2269 (HILTI) OR ICC ESR 2024 (DENALT).
- SHOT PINS DRIVEN INTO STEEL BASE MATERIAL SHALL BE X-U-P8 (HILTI) OR CSI (DENALT). TYPE LENGTH OF PIN SHALL BE AS REQD TO PENETRATE THROUGH THE STEEL BASE MATERIAL. MIN EDGE DISTANCE TO ANY CONNECTED PART SHALL BE 1/2" AND MIN FASTENER SPACING SHALL BE 1".
- SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL SHALL BE X-U-P8 (HILTI) OR CSI (DENALT). TYPE LENGTH OF PIN SHALL BE AS REQD TO PENETRATE 1" INTO THE CONG THROUGH THE LOW FLUTE, PIN SHALL BE CENTERED IN THE LOW FLUTE & MIN FASTENER SPACING SHALL BE 5 1/4". CONCRETE MUST HAVE F'c=3000 PSI MIN AND BE 2 1/2" THICK ABOVE TOP OF STEEL DECK.
- SHOT PINS DRIVEN INTO GROUT FILLED CMU SHALL BE X-U-P8 (HILTI) OR CSI (DENALT). TYPE LENGTH OF PIN SHALL BE AS REQD TO PENETRATE 1" INTO THE FACE SHELL. DO NOT INSTALL IN ANY VERTICAL MORTAR JOINTS. FASTENERS SHALL BE SPACED NO CLOSER THAN 4" AND NO CLOSER THAN 4" FROM ANY EDGE.
- SHOT PINS IN CONCRETE OR STEEL SHALL NOT BE USED FOR SUSTAINED LOADS IN TENSION OR BRACE APPLICATIONS IN SEISMIC DESIGN CATEGORIES D, E, & F PER ASCE 7-16 SECTION 13.4.5.
- SHOT PINS NOT ALLOWED FOR EXTERIOR ANCHORAGE.
- SHOT PINS PENETRATION INTO CONCRETE SHALL NOT EXCEED 1/3 OF SLAB THICKNESS.
- SHOT PINS CONNECTING COLD FORMED METAL TO CONCRETE OR STEEL SHALL HAVE WASHERS.

TYPICAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES:

- CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
- NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
- CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
- DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
- PRIOR TO FABRICATION, SHOP DRAWINGS, SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER ON ALL STRUCTURAL STEEL, REINFORCING STEEL, CONCRETE MIX PROPORTIONS. SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS AND THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS INTENDED FOR USE. DUPLICATION OF DESIGN DRAWINGS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE, AND CAUSE FOR REJECTION.
- SAFETY NOTE:
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
 - THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS:

ROOF: 20.0 PSF (REDUCIBLE)

WIND:

BASIC WIND SPEED V (3 SEC 60S17)= 33 MPH

RISK CATEGORY: ☐ I ☒ II ☐ III ☐ IV

EXPOSURE: C

ENCLOSURE CLASSIFICATION:	INTERNAL PRESSURE COEFFICIENT (Gcpi)
<input type="checkbox"/> ENCLOSED	+0.18, -0.18
<input type="checkbox"/> PARTIALLY ENCLOSED	+0.55, -0.55
<input type="checkbox"/> PARTIALLY OPEN	+0.18, -0.18
<input checked="" type="checkbox"/> OPEN	0.00

VELOCITY PRESSURE qh = 16.1 PSF

COMPONENTS & CLADDING:

*WIND PRESSURE FOR BUILDING ELEMENTS (16.0 PSF MINIMUM)

DESIGN WIND PRESSURE (PSF)	* DESIGN PRESSURE IS FOR EFFECTIVE WIND AREA < 10 SQ FT. PRESSURE CAN BE REDUCED FOR LARGER AREAS AS PER ASCE 7-16
ROOF	
ZONE 1	16, -17.5
ZONE 2	16, -26.3
ZONE 3	16, -52.5

SEISMIC:

SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS
BUILDING LOCATION:
LATITUDE: 37.98° N
LONGITUDE: -121.82° W

SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY	SEISMIC COMPONENT IMPORTANCE FACTOR Ip
<input type="checkbox"/> A	<input type="checkbox"/> I	<input type="checkbox"/> A	<input type="checkbox"/> 1.00
<input type="checkbox"/> B	<input checked="" type="checkbox"/> II	<input type="checkbox"/> B	<input type="checkbox"/> 1.50
<input type="checkbox"/> C	<input type="checkbox"/> III	<input type="checkbox"/> C	
<input type="checkbox"/> D	<input type="checkbox"/> IV	<input checked="" type="checkbox"/> D	
<input type="checkbox"/> E		<input type="checkbox"/> E	
<input type="checkbox"/> F		<input type="checkbox"/> F	

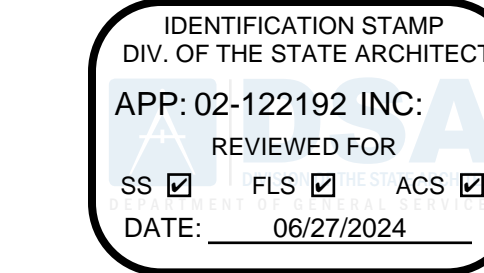
DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS:
Sps = 0.16
Sd1 = 0.30

COMPONENT COEFFICIENTS:

ap= 2.5
Rp= 6
Ω= 2
λ= 1

ANALYSIS PROCEDURE: DESIGN FORCE Fp= 0.449 Sps Ap (1.2 λ)

USE Fp= 3.14 k



DSA APP. NO: 02-122192



3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655



6/5/24



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL
AGRICULTURAL
MECHANICS SHOP
RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL
DISTRICT

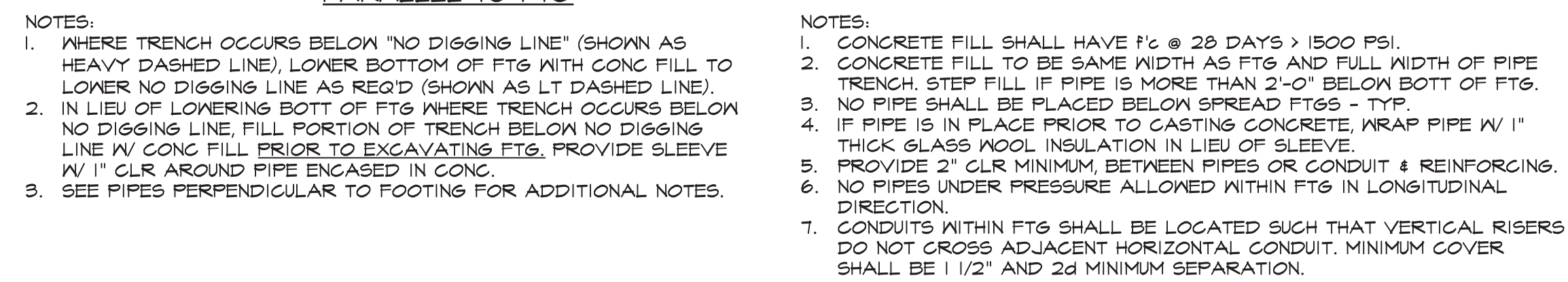
REVISIONS

No.	Description	Date

PROJECT No.: 2023-065

CONSTRUCTION DOCUMENTS

TYPICAL NOTES

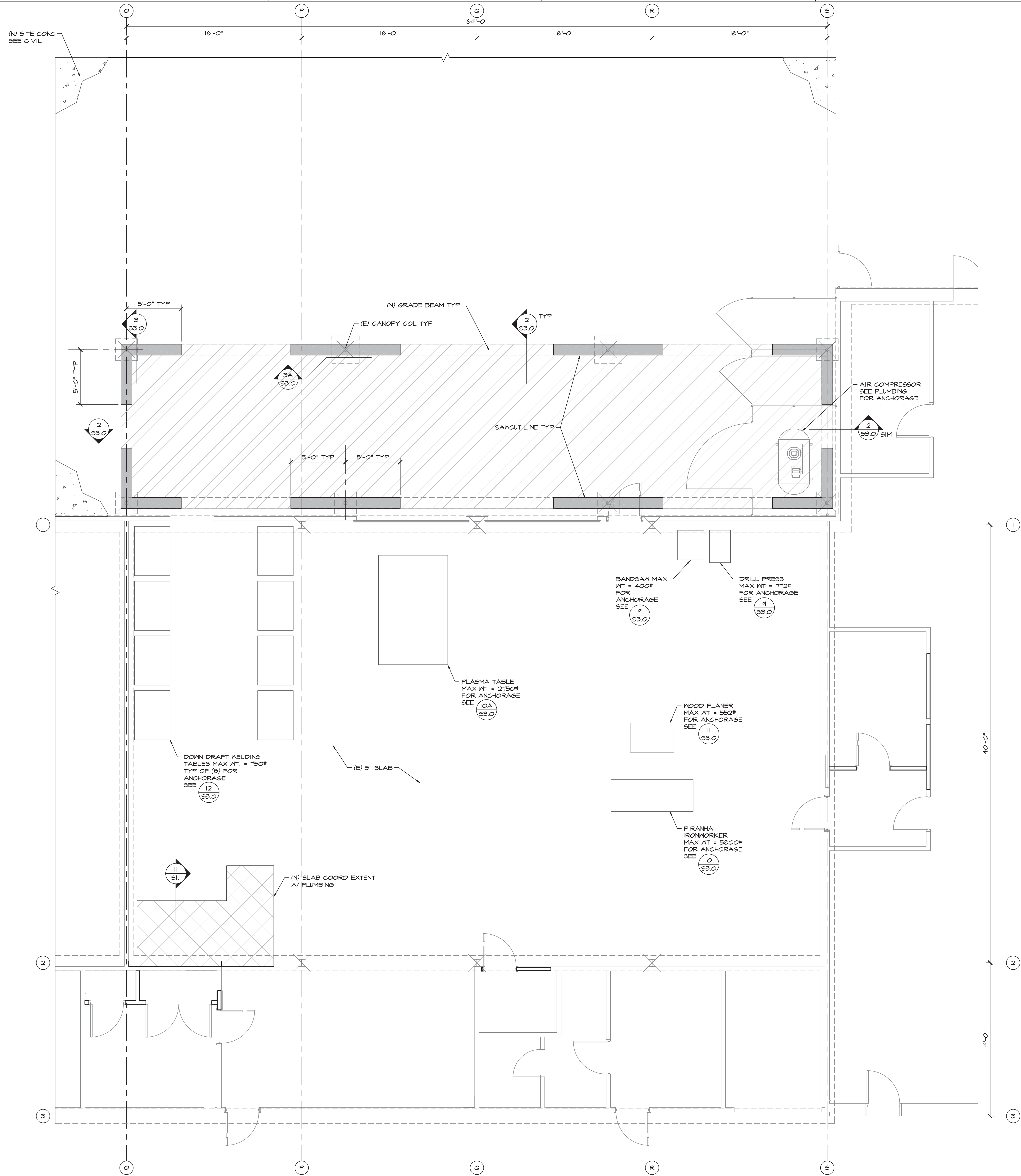


S1.1

STANDARD HOOKS

- NOTES:
1. UNLESS INDICATED OTHERWISE, USE CLASS "B" LAP SPICE LENGTHS, MULTIPLIED BY THE APPLICABLE FACTORS(S) LISTED BELOW.
2. WHERE THE CLEAR SPICE LENGTH IS 12 INCHES OR LESS, INCREASE THE BAR DIAMETERS, INCREASE THE LAP LENGTH BY 50%.
3. WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER, INCREASE THE LAP LENGTH BY 50%.
4. A CLASS "A" SPICE MAY BE USED ONLY WHERE NOTED ON THE DRAWINGS, WHERE DEVELOPMENT LENGTH (l_d) IS REQUIRED OR CALLED OUT.
5. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
6. WHERE THE LAST BAR OF A DEVELOPMENT LENGTH IS NORMAL HEIGHT CONCRETE, WHERE LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INCREASE LAP SPICE LENGTH BY 33%.
7. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
8. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.

REBAR OFFSET &
LAP SPLICES



- FOUNDATION NOTES**
1. FINISH FLOOR EL. = +0'-0" (REF.) = +1.21' DATUM
 2. DIMENSIONS FOR EXISTING STRUCTURE ARE FROM ORIGINAL DRAWINGS DATED 09/11/1956. THESE DIMENSIONS SHALL BE FIELD VERIFIED.
 3. COLUMNS ARE CENTERED ON GRID LINES OR CENTERED ON WALL TYP, UNO.
 4. FOOTINGS ARE CENTERED ON COLUMNS TYP UNO
 5. SEE TYPICAL NOTES & DETAILS ON SHEETS S1.0 - S1.1
 6. CONTRACTOR SHALL CHECK FRAMING DIMENSIONS AGAINST THE ARCHITECTURAL PLANS AND NOTIFY ARCHITECT AND ENGINEER OF ANY DIMENSIONS AND/OR DISCREPANCIES BEFORE STARTING WORK.
 7. DIMENSIONS ARE TO FACE OF STUD OR C. OF COLUMN UNO

LEGEND

- INDICATES EXISTING STEEL COLUMN
- INDICATES EXISTING STRUCTURE
- INDICATES (N) NON STRUCTURAL FRAMING SAD
- INDICATES (E) FTG
- TO FACE OF STUD
- TO CENTERLINE OF STUD/COLUMN
- INDICATES (N) 5" SLAB ON GRADE INFILL W/ #4 @ 16" O.C. EA WAY @ MID DEPTH OVER 4" CRUSHED ROCK OVER VAPOR BARRIER
- INDICATES SELECTIVE REMOVAL OF (E) CONCRETE SLAB. SEE CIVIL FOR REPLACEMENT SLAB.
- INDICATES HAND DEMO OF CONCRETE ONLY. DO NOT CUT EXISTING REBAR IN THESE AREAS SEE 2 (SS.O) 3 (SS.O)

FOUNDATION PLAN
1/4" = 1'-0"
TRUE NORTH

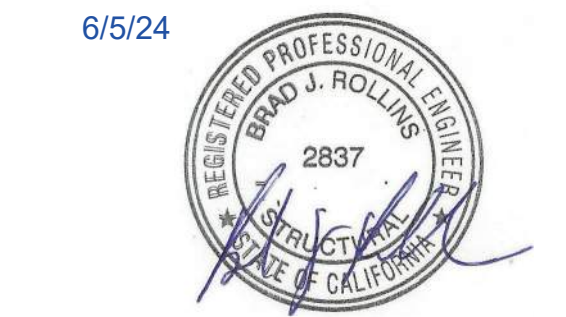
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DIV. OF THE STATE ARCHITECT
APP: 02-122192 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

DSA APP. NO: 02-122192



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55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

**STAGG HIGH SCHOOL
AGRICULTURAL
MECHANICS SHOP
RENOVATION**

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

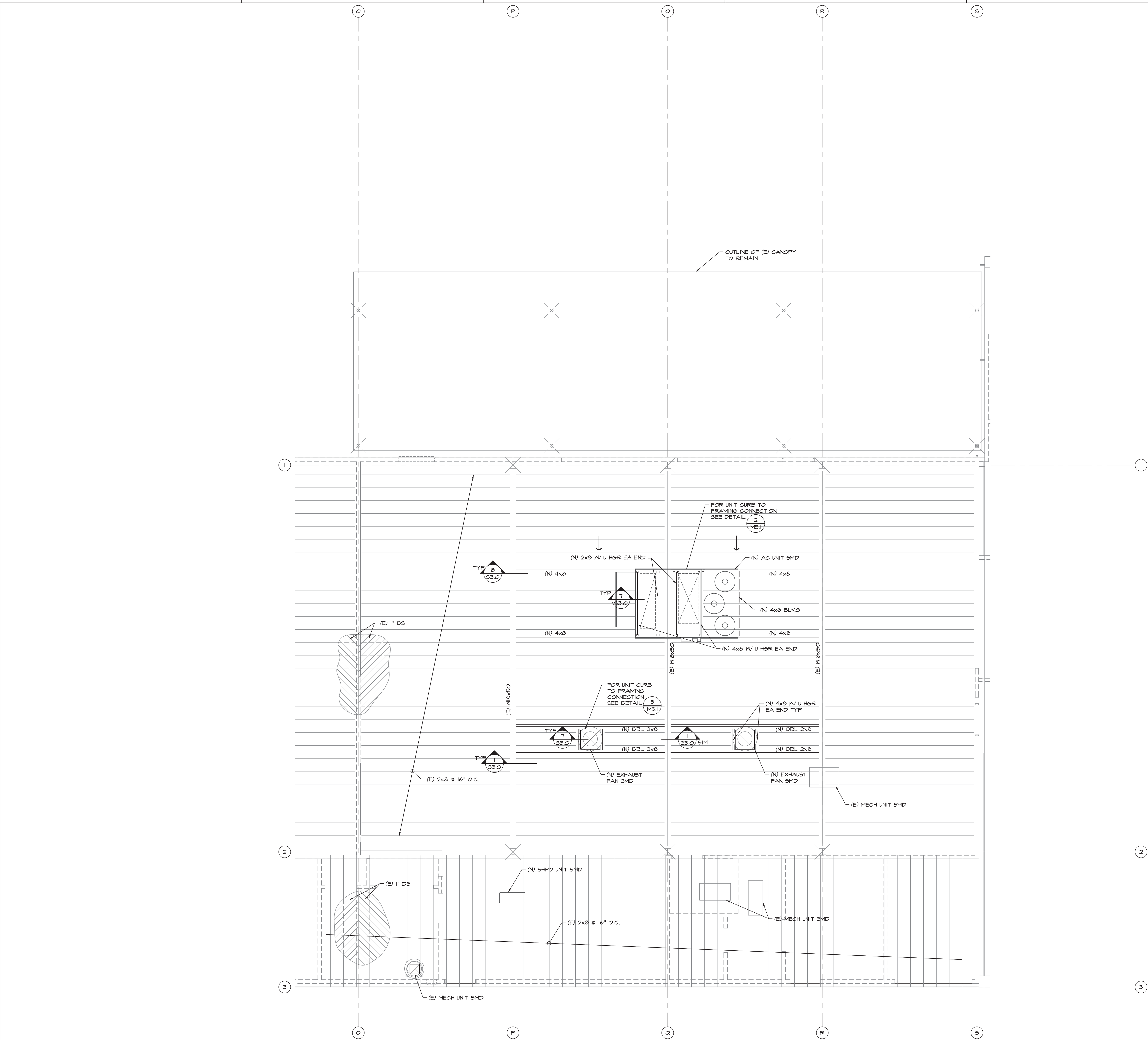
REVISIONS		
No.	Description	Date

PROJECT No.: 2023-065

CONSTRUCTION DOCUMENTS

FOUNDATION PLAN

S2.0



ROOF FRAMING NOTES
1. COORDINATE W/ MECH CONTRACTOR & ELEC CONTRACTOR SUPPLIERS FOR LOCATION AND DIMS OF EQUIPMENT AND OPENINGS.
2. CONTRACTOR SHALL CHECK ROOF FRAMING DIMENSIONS AGAINST THE ARCHITECTURAL PLANS AND NOTIFY ARCHITECT AND ENGINEER OF ANY DIMENSIONS AND/OR DISCREPANCIES BEFORE STARTING WORK.

LEGEND
→ ← INDICATES SLOPE DOWN DIRECTION
X ← INDICATES EXISTING STEEL COLUMN
≡ ← INDICATES EXISTING STRUCTURE

ROOF FRAMING PLAN
1/4" = 1'-0"
TRUE NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122192 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

DSA APP. NO: 02-122192



3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655

POINT 2
STRUCTURAL ENGINEERS, INC.
3701 BUSINESS DRIVE SUITE 200
SACRAMENTO, CA 95820
(916) 452-8200 (FAX)
(916) 452-8212 (FAX)

6/5/24



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

**STAGG HIGH SCHOOL
AGRICULTURAL
MECHANICS SHOP
RENOVATION**

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL
DISTRICT

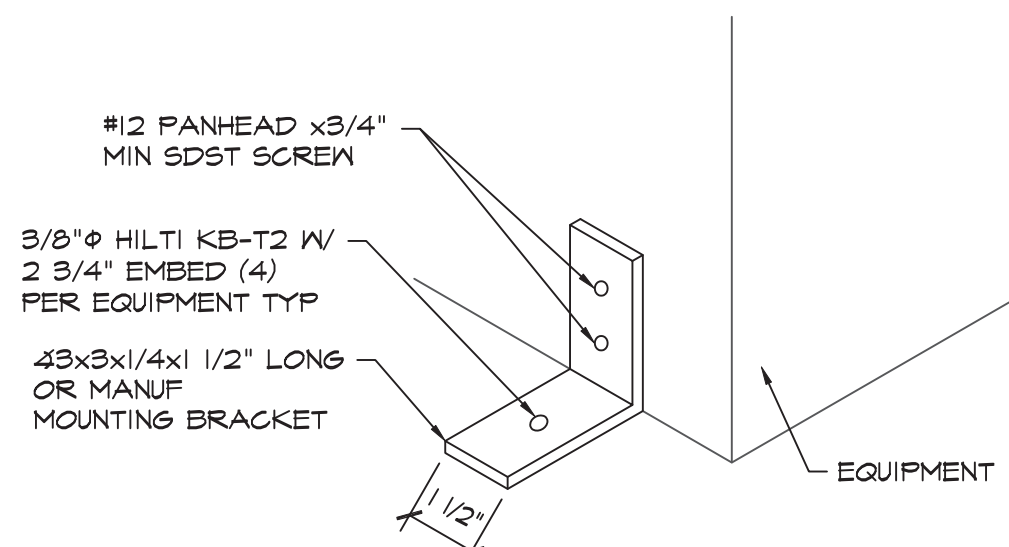
REVISIONS		
No.	Description	Date

PROJECT No.: 2023-065

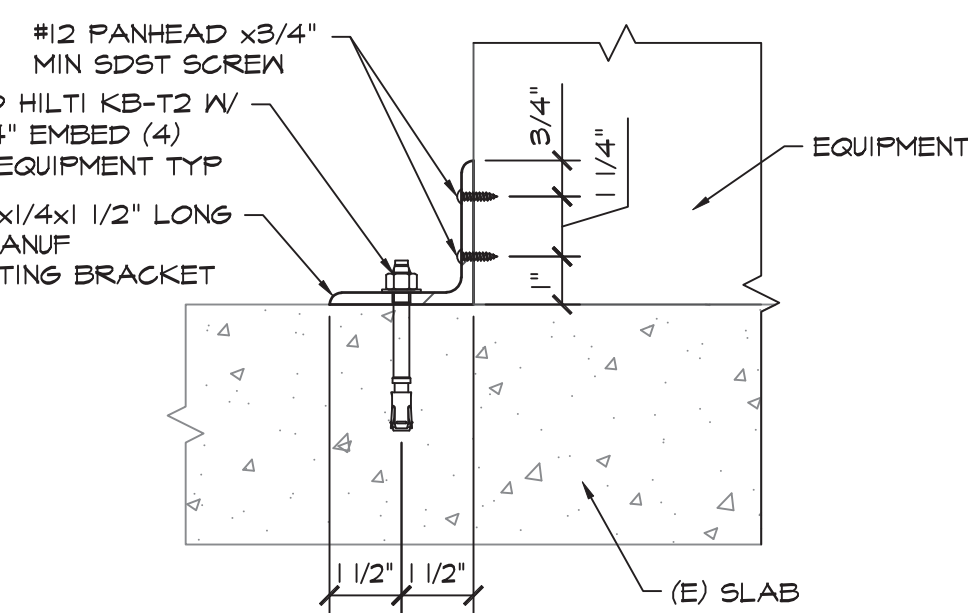
CONSTRUCTION DOCUMENTS

**ROOF FRAMING
PLAN**

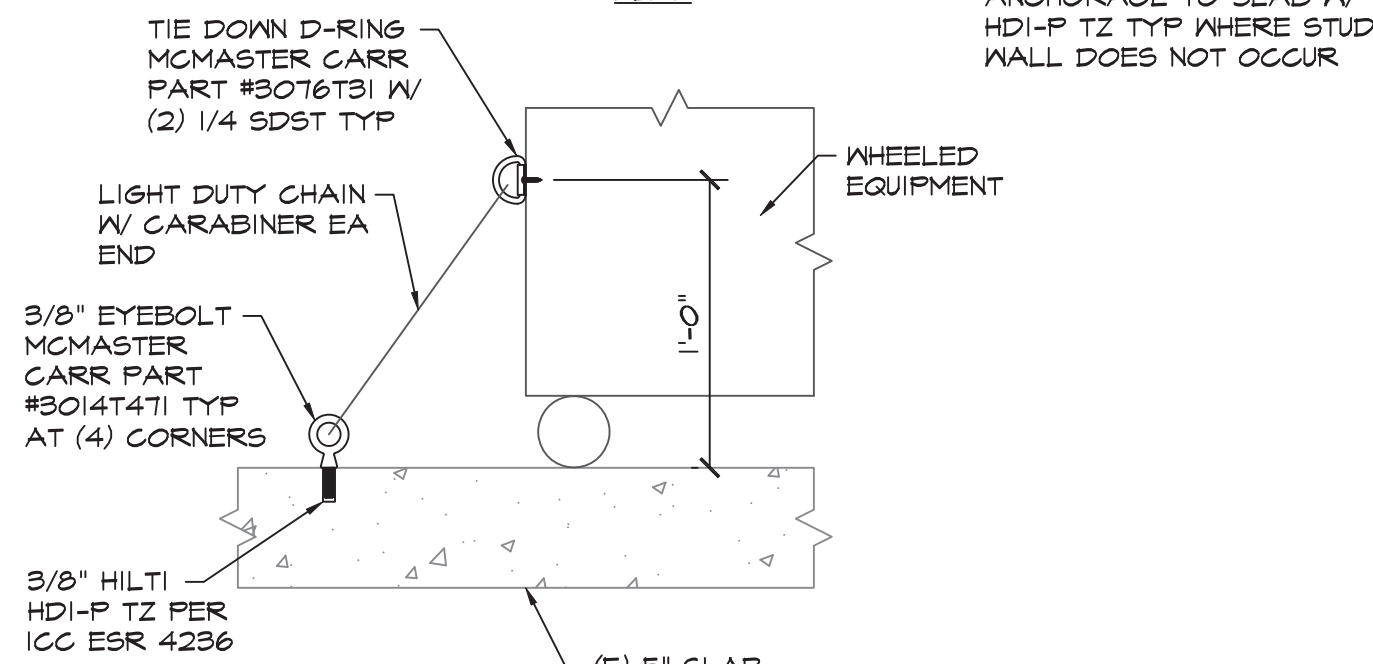
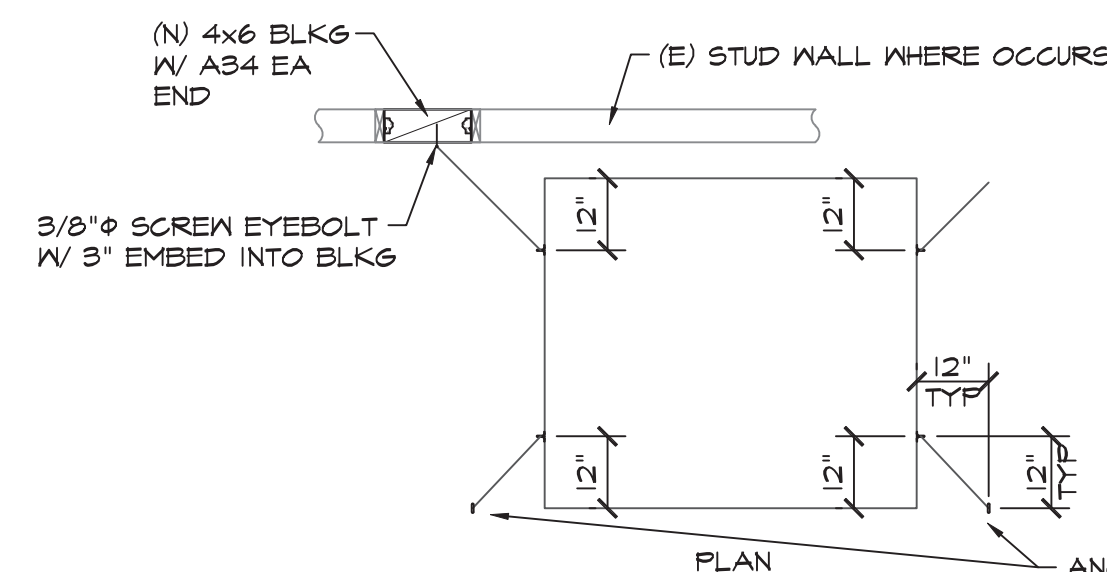
S2.1



NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURERS
PUBLISHED INSTALLATION INSTRUCTIONS AND ESR4266

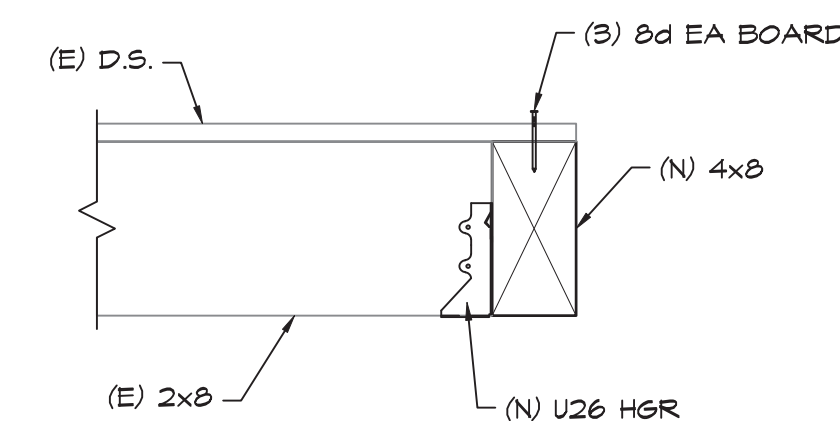


11
DETAIL
3' = 1'-0" 06SDETO12

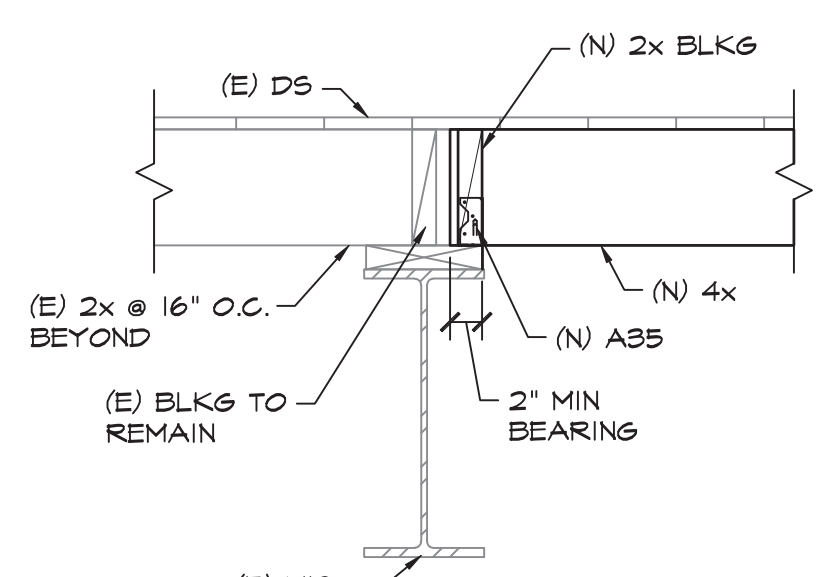


12
DETAIL
1 1/2" = 1'-0" 06SDETO13

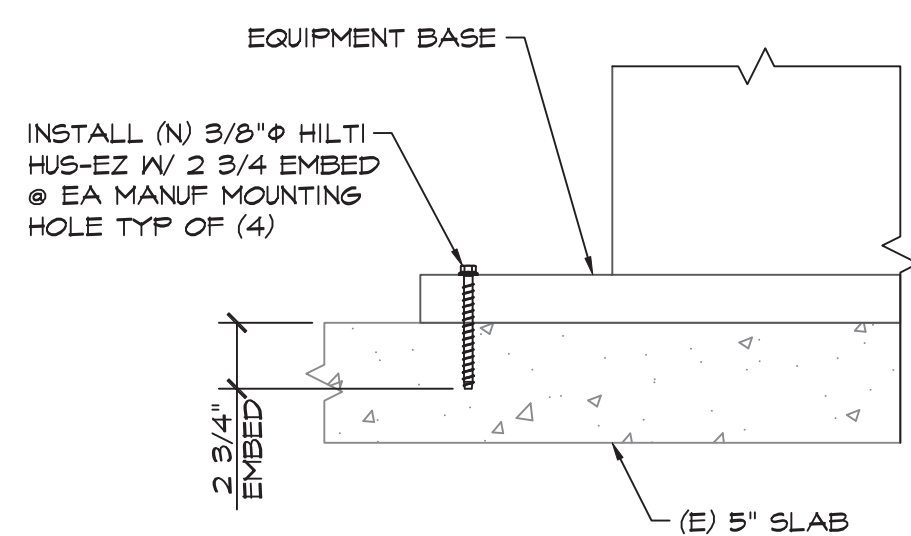
6
NOT USED
3' = 1'-0" 06SDETO11



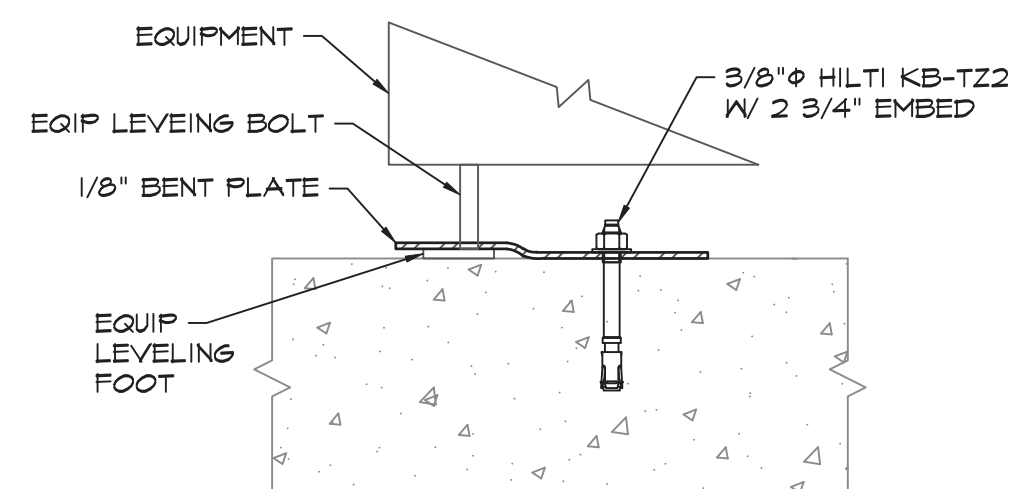
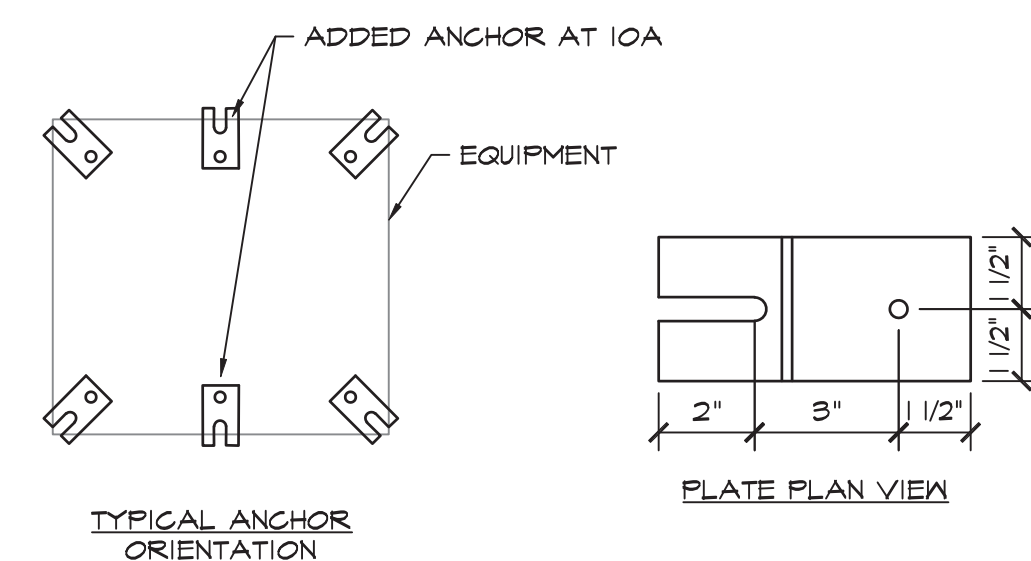
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DETAIL
1 1/2" = 1'-0" 06SDETO07



8
DETAIL
1" = 1'-0" 06SDETO08

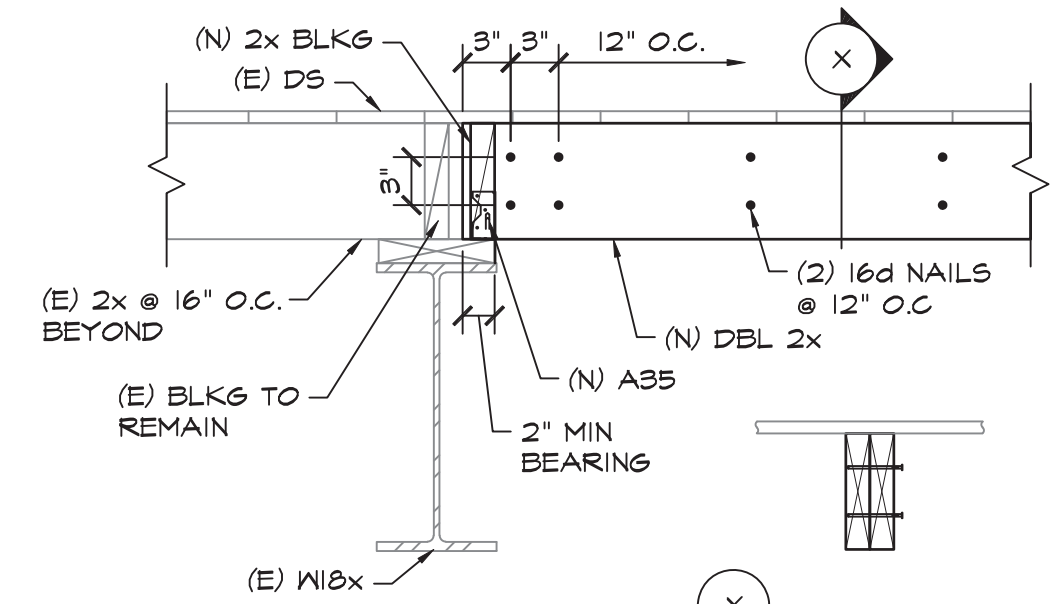


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DETAIL
1 1/2" = 1'-0" 06SDETO10

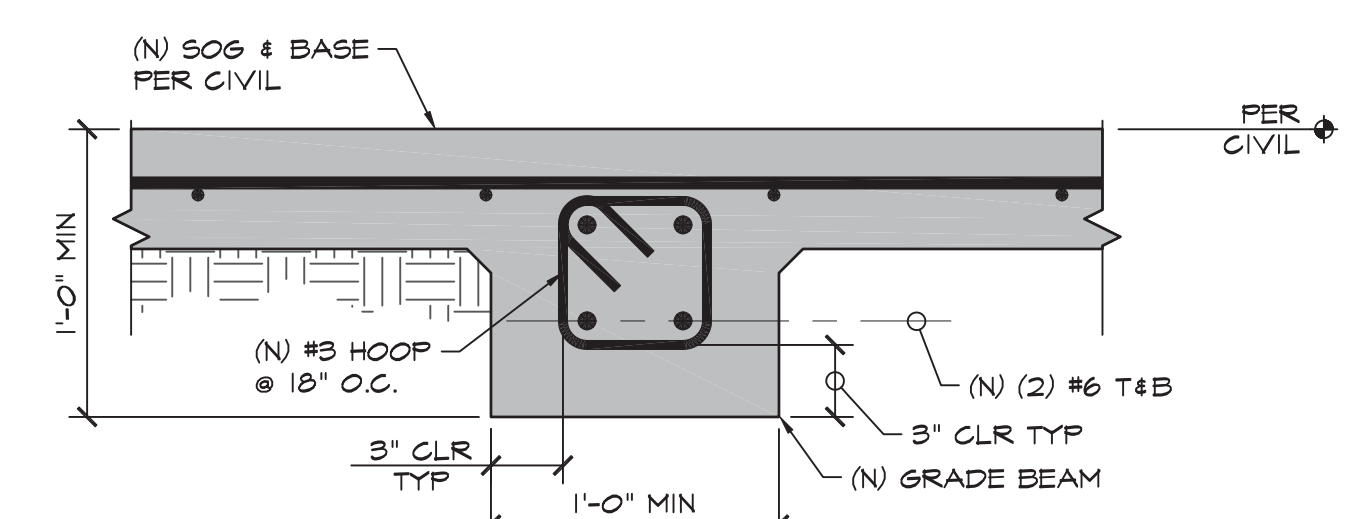


NOTE:
1. (4) CONNECTORS PER EQUIPMENT REQUIRED (6 AT 10A)

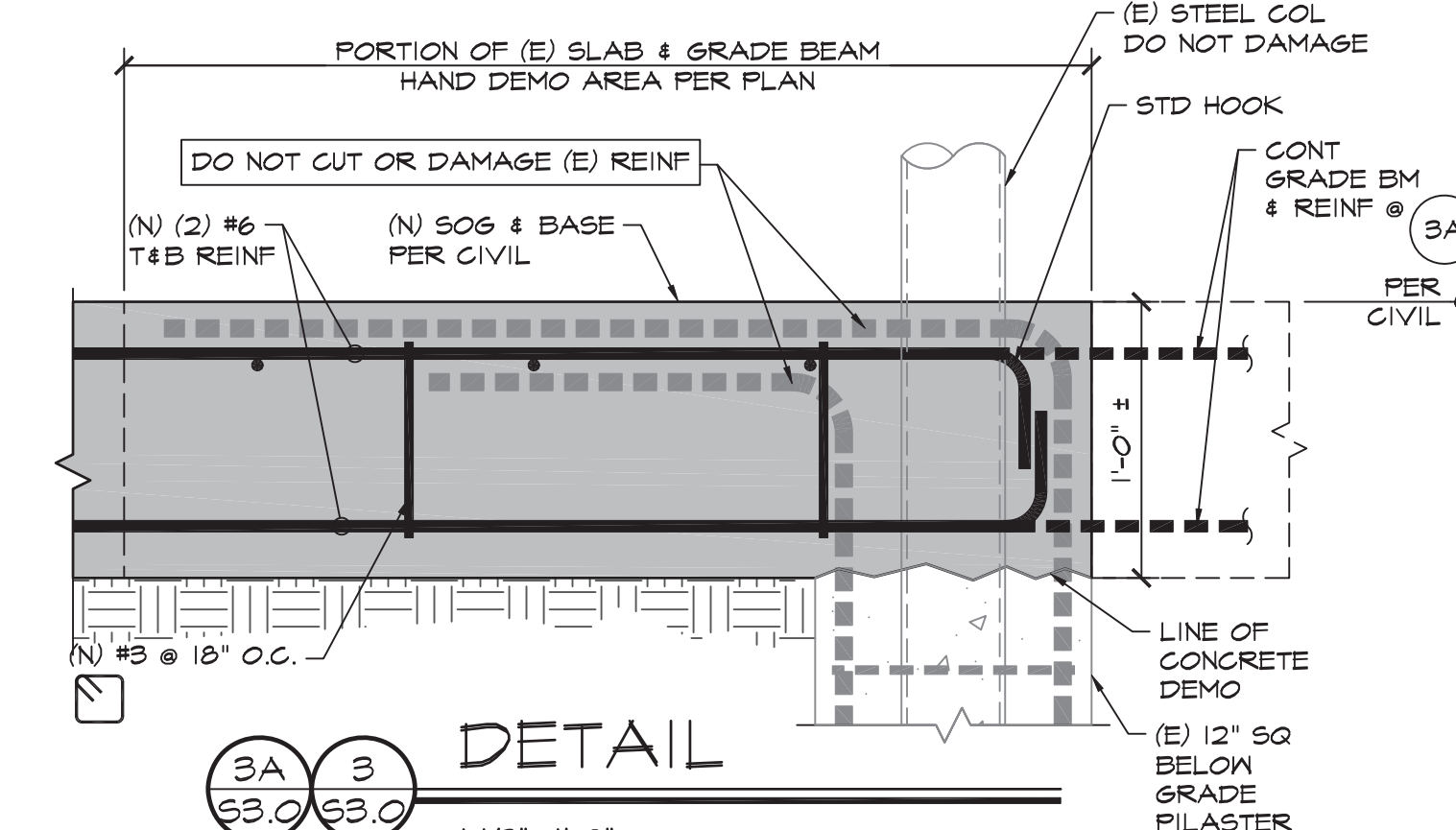
10A
DETAIL
3' = 1'-0" 06SDETO11



1
DETAIL
1" = 1'-0" 06SDETO01



2
DETAIL
1 1/2" = 1'-0" 06SDETO13



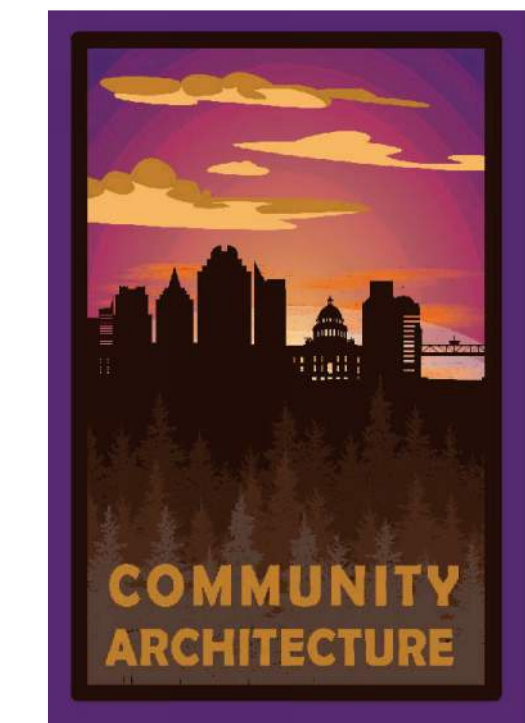
3A
DETAIL
1 1/2" = 1'-0" 06SDETO16

4
NOT USED
3' = 1'-0" 06SDETO11

5
NOT USED
3' = 1'-0" 06SDETO11

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STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

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


PROJECT No.: 2023-065

CONSTRUCTION DOCUMENTS

DETAILS

S3.0

QC	
INI	%

DIFFUSER, REGISTER & GRILLE SCHEDULE						
SYMBOL	DESCRIPTION	KRUEGER	METALAIR	NAILOR	TITUS	TUTTLE & BAILEY
	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER BEVEL FRAME 3/4" DROP	1240 FRAME 21 - 1 1/4"	9000-2	7500-S	MCD BORDER TYPE 6	SQD-SB
CR, CT, CE 	CEILING RETURN, TRANSFER OR EXHAUST WITH * EGG GRATE CORE SURFACE MOUNT	EGC-5	CC5D	61 EC-S	MODEL 50 F BORDER TYPE 1	CRE500-SF
SDS 	DOUBLE DEFLECTION SPIRAL DUCT MOUNTED SUPPLY GRILLE WITH CURVED FRAME, AIR SCOOP EXTRACTOR, VERTICAL FRONT BLADES, 3/4" SPACING.	--	--	--	S300FS	--
SDR, SDE 	PERFORATED FACE SPIRAL DUCT MOUNTED RETURN OR EXHAUST GRILLE WITH CURVED FRAME.	--	--	--	S8F	--

NOTES:

- ALL SYMBOLS NOTED MAY NOT BE USED, REFER TO PLANS FOR SIZE AND QUANTITY.
- ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW UNLESS SHOWN OTHERWISE.
- FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.
- COORDINATE DIFFUSER TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- OPPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTERS OR GRILLES.
- PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER OR GRILLE.

* ALUMINUM REGISTERS FOR SHOWERS AND DAMP AREAS

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. VERIFY EXIST' LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES WITH (E) SYSTEMS AND/OR DRAWINGS.
3. COORDINATE EXIST' LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH FLOOR, ROOFS AND WALLS WITH ARCHITECTURAL/STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
4. COORDINATE EXIST' SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE AND EQUIPMENT PRIOR TO COMMENCING WORK.
5. COORDINATE CEILING DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL CEILING PLAN SHEET A3.1.
6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.
7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC. ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED (X)'S) OUT. SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S DRAWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"X 9") CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMMODATE THE ROUND DUCT CONNECTION.
11. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE), DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.

MEP COMPONENT ANCHORING 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:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE 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 OR HAS 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, 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 COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 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 FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED AUTHORITY AND IN ACCORDANCE WITH 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 SYSTEMS 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.124, 1617A.125 AND 1617A.126.

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


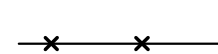



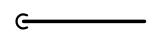



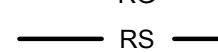


MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

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 HCAI (OSHPD) PREAPPROVAL (OPM #) #0043-13.

DUCT LEGEND		
SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		RECTANGULAR DUCT - WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
		ACOUSTICALLY LINED RECTANGULAR DUCT, 1" THICK INTERNAL LINER, DIMENSIONS ARE OUTSIDE
		ACOUSTICALLY LINED RECTANGULAR DUCT, 2" THICK INTERNAL LINER, DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
		RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
		RECTANGULAR TO RECTANGULAR TRANSITION, MAX. SLOPE OF 1:3
		RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
		ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
		RECTANGULAR DUCT TEE. MA'D'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MA'D'S, THROAT SIZED FOR EQUAL PRESSURE DROP
		3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MA'D'S ON THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DUCT NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF QD DIFFUSER FRAME. FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY AIR DUCT IN SECTION, SUPPLY DROP
		RETURN AIR, RETURN AND OUTSIDE AIR DUCT IN SECTION, RETURN AIR DROP
		EXHAUST AIR, EXHAUST AIR DUCT IN SECTION, EXHAUST AIR DROP

<h1 style="text-align: center;">CALIFORNIA ENERGY CODE - ACCEPTANCE TESTING</h1>	
1.	<p>THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.</p> <p>LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).</p> <p>MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.</p> <p>ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ ARCHITECT OF RECORD OR THE OWNER'S AGENT.</p> <p>A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN.</p> <p><u>CERTIFICATION PROVIDER PROGRAM ACCEPTANCE</u></p> <p>THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.</p> <p>PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.</p>

OPM DETAIL REFERENCES FOR OPTION 2 SCHEDULE	
1.	<p>PROVIDE SUPPORT AND SEISMIC BRACING PER OPM #0043-13 REFER TO M5.3 AND M5.4 FOR OPM DETAILS D4.10, D4.11, D4.12, D4.20, D4.21, D4.22, D6.10, D6.11, D6.12, D6.20, D6.21, D6.22, M3.10, M3.11, M3.12, M3.14, N3.11, N3.13, M4.10, N4.10, P1.10, P1.11, P1.12</p> <p>FOR RECTANGULAR DUCTWORK GREATER THAN 6 SQ FT CROSS SECTIONAL AREA AND ROUND DUCTWORK GREATER THAN 26" DIAMETER, PROVIDE SUPPORT AND SEISMIC BRACING PER OPM #0043-13 PAGES D4.10 THRU D4.12, D6.10 THRU D6.12.</p>

MECHANICAL LEGEND cont'd		
SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	ABC	ABOVE CEILING
	AF	ABOVE FLOOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AC	AIR CONDITIONING
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	BDD	BACK DRAFT DAMPER
	BHP	BRAKE HORSE POWER
	BOD	BOTTOM OF DUCT ELEVATION ABOVE FINISHED FLOOR
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	CO2	CARBON DIOXIDE (CO2) SENSOR, INSTALLED AT +66" AFF (TO TOP OF DEVICE, EXCEPT WHEN INTEGRAL TO T-STAT OR TEMPERATURE SENSOR)
	CC	CENTER TO CENTER
	CLG	CEILING
	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	DPR	DAMPER
	°F	DEGREES FAHRENHEIT
	DIA	DIAMETER, PHASE
	DL	DOOR LOUVER
	DB	DRY BULB (DEGREES FAHRENHEIT)
	EP	ELECTRICAL PANEL
	EL	ELEVATION
	ENT	ENTERING
	EDB	ENTERING DRY BULB
	EW	ENTERING WATER
	EWT	ENTERING WATER TEMPERATURE
	EWB	ENTERING WET BULB
	EVAP	EVAPORATOR
	EA	EXHAUST AIR
	EAO	EXHAUST AIR DAMPER
	EF	EXHAUST FAN
	(E), EXIST	EXISTING
	(E)	EXISTING TO BE REMOVED
	ESP	EXTERNAL STATIC PRESSURE
	FPM	FEET PER MINUTE
	FC	FLEXIBLE CONNECTION
	FLR	FLOOR
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GALV	GALVANIZED
	GI	GALVANIZED IRON
	GAU	GAUGE
	HTG	HEATING
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	LDB	LEAVING DRY BULB IN DEGREES FAHRENHEIT
	LWB	LEAVING WET BULB IN DEGREES FAHRENHEIT
	LRA	LOCKED ROTOR AMPERES
	LVR	LOUVER
	MAD	MANUAL AIR DAMPER
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	MCC	MOTOR CONTROL CENTER
	MCD	MOTORIZED CONTROL DAMPER
	(N)	NEW
	OCC	OCCUPANCY SENSOR
	OC	ON CENTER
	OA	OUTSIDE AIR
	OAD	OUTSIDE AIR DAMPER
	OD	OUTSIDE DIAMETER
	OV	OUTLET VELOCITY
	OH	OVERHEAD
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	POC	POINT OF CONNECTION
	LBS	POUNDS
	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
	PD	PRESSURE DROP
	RG	REFRIGERANT GAS PIPING
	RS	REFRIGERANT SUCTION PIPING
	RL	REFRIGERANT LIQUID PIPING
	RA	RETURN AIR
	RAD	RETURN AIR DAMPER
	RPM	REVOLUTIONS PER MINUTE
	RLA	RUNNING LOAD AMPERES
	SQFT	SQUARE FEET
	SQIN	SQUARE INCHES
	SP	STATIC PRESSURE
	SPD	STATIC PRESSURE DROP
	SA	SUPPLY AIR
	SF	SUPPLY FAN
	TCP	TEMPERATURE CONTROL PANEL
	TCV	TEMPERATURE CONTROL VALVE
	T	THERMOSTAT, "X" INDICATES SYSTEM CONTROLLED, INSTALLED AT +46" AFF (TO TOP OF DEVICE)
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TP	TOTAL PRESSURE
	TSP	TOTAL STATIC PRESSURE
	TYP	TYPICAL
	UCD	UNDER CUT DOOR
	UON	UNLESS OTHERWISE NOTED
	W	WATTS
	WT	WEIGHT
	WB	WET BULB

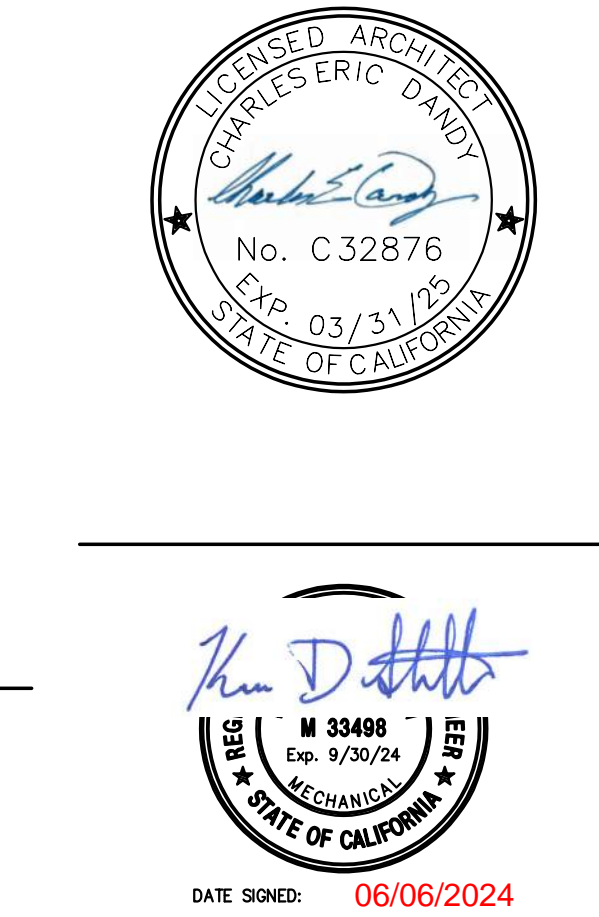
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT			
APP: 02-122192 INC:			
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SS	<input checked="" type="checkbox"/>	FLS	<input checked="" type="checkbox"/>
ACS	<input checked="" type="checkbox"/>		
DATE: 06/27/2024			

DSA APP. NO: 02-122192



**COMMUNITY
ARCHITECTURE**

**3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655**



The logo for Capital Engineering features a stylized 'C' made of three blue geometric shapes. To its right, the word 'capital' is in a bold, sans-serif font, and 'engineering' is in a smaller, italicized sans-serif font below it. Below the logo, the text 'RANCHO CORONA, CALIFORNIA' is centered. A horizontal line separates this from a table with two columns. The first column contains 'RL' and 'PM - DESIGN TEAM'. The second column contains '232073.00' and 'PROJECT NO.'. Below the table is another horizontal line.

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

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STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

No.	Description	Date
1	Revision 1	Date 1

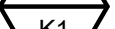

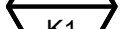


PROJECT No.:



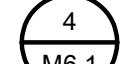



2023-014.00

CONSTRUCTION DOCUMENTS

QC	
INI	%

AIR CONDITIONING UNIT SCHEDULE																																										
UNIT	SERVES	"CARRIER" MODEL NO. U.N.O.	NOM. TONS	CFM	MIN. O.A. (CFM)	DX COOLING				GAS HEATING		AC UNIT ELECTRICAL DATA								PWR. EXH. ECON. ELECTRICAL DATA				EFFICIENCY				OPERATING WEIGHT (LBS.)				MOUNTING DETAIL	CONTROL DIAGRAM	NOTES								
						ESP (IN. W.G.)	LOW CFM (68%)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EWB [°F]	EWB [°F]	INPUT (MBH)	OUTPUT (MBH)	HX EDB [°F]	VOLT/PH	BHP	FAN FLA	COMPRESSOR QTY	RLA	LRA	COND. FAN QTY	FLA	COMB. FAN FLA	MCA	MOCP	VOLT/PH	EXHAUST FAN HP	FLA	MCA	MOCP	SEER				EER	IEER	AFUE	TE	AC UNIT	PWR. EXH. ECON.	ROOF CURB	TOTAL
AC K1	AG SHOP K9	48GCDM17A2MS-0A0A0	15.0	5100	UPPER 1090 LOWER 440	0.6	3340	164.33	169.58	81.6	65.8	176 / 220	142 / 178	60.2	460/3	1.80	3	2	12.8 / 8.2	100 / 66	3	0.9	0.25 EA.	32.9	45	460/3	2.0	3.1	3.875	3.975	--	11.10	16.5	81.0	--	1824	736	267	2882	<div>1, 2, 3 MS-1</div>	<div>2 MS-1</div>	<div>12345 678</div>
<div>NOTES:</div> <div><div><div>① UNITS SELECTED AT 103 F DB / 72 F WB SUMMER AMBIENT, 24 F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NET TOTAL CAPACITIES.</div><div>② PROVIDE UNIT WITH CONDENSER COIL, GUARDS, HINGED ACCESS DOORS, AND 2" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTER(S). THE ESP SCHEDULED ABOVE INCLUDES AIR PRESSURE DROP THRU FILTER(S).</div><div>③ PROVIDE UNIT WITH "MICROMETL": 100% MODULATING POWER EXHAUST ECONOMIZER WITH VFD, DIFFERENTIAL PRESSURE TRANSDUCER, ROOM PRESSURE TUBING, AND "BELIMO" LF SERIES ACTUATORS. NOTE THAT SEPARATE POWER CONNECTIONS ARE REQUIRED TO THE AC UNIT AND TO THE MODULATING POWER EXHAUST ECONOMIZER. ELECTRICAL LOADS OF EACH DEVICE ARE SCHEDULED. ELECTRICAL CONTRACTOR SHALL PROVIDE SEPARATE POWER CONNECTIONS, APPROPRIATE CIRCUIT BREAKER(S), FEEDER(S), AND DISCONNECT(S) AS REQUIRED BY CODE.</div><div>④ PROVIDE "MICROMETL:" STRUCTURALLY CALCD 14" TALL STANDARD ROOF CURB.</div><div>⑤ R-410A REFRIGERANT (SAFETY GROUP A1, LOW-PROBABILITY SYSTEM).</div></div><div><div>⑥ LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 DEMAND CONTROL VENTILATION SYSTEMS AT MINIMUM OCCUPANCY. UPPER OUTSIDE AIR POSITION INDICATED IS BASED ON 15 CFM/OCCUPANT WHEN SPACE IS AT MAXIMUM OCCUPANCY. UNLESS SYSTEM IS IN ECONOMIZER MODE. SEE CONTROLS FOR SEQUENCE OF OPERATION. FOR THESE UNITS WITH DEMAND CONTROL VENTILATION, ENTERING TEMPERATURES SCHEDULED REPRESENT CONDITIONS AT UPPER OSA POSITION.</div><div>⑦ FOR UNITS WITH NOM. COOLING CAPACITY OF 6 TONS AND LARGER, PROVIDE UNIT WITH FACTORY INSTALLED VFD ON SUPPLY FAN AND MINIMUM 2-STAGES OF MECHANICAL COOLING CAPACITY. SEE SCHEDULE FOR LOW SUPPLY AIRFLOW CFM (68%). SEE CONTROLS FOR SEQUENCE OF OPERATION.</div><div>⑧ AUTOMATIC SHUTDOWN OF HVAC SYSTEM IS NOT REQUIRED PER 2022 CMC, SECTION 609.1, EXCEPTION 2. ALL ROOMS HAVE DIRECT EXIT TO OUTSIDE WITH TRAVEL DISTANCE LESS THAN 100 FEET.</div></div></div>																																										

SPLIT SYSTEM HP UNIT SCHEDULE																											
UNIT	LOCATION	TYPE	"MANUFACTURER"	MODEL NUMBER	CFM	MIN. O.A. (GFM)	BOOSTER HEATER (KW)	FAN FLA	MCA	VOLT/PH	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"MANUFACTURER" MODEL NO. INDOOR UNIT	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	COMPRESSOR		MCA	MOCP	FAN FLA	VOLT/PH	SEER	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
																	RLA	LRA									
	OFFICE K121	WALL MOUNTED	"CARRIER"	40MAHBQ12XA3	176 382	NA	NA	NA	0.3125	208/1	25			"CARRIER" 38MARBQ12AA3	12.0	18.0	8.5	NA	15	15	NA	208/1	25.5	80			1, 2, 3, 4
NOTES: <div>1. PROVIDE WITH FACTORY WASHABLE FILTERS. 2. PROVIDE ALL INDOOR UNITS WITH THERMOSTAT. HARD WIRED, WALL MOUNTED. 3. INDOOR FAN COIL POWERED BY CONDENSING UNIT. REFER TO MRF'S INSTALLATION DATA. 4. PROVIDE "REFCO" MODEL GOB1 CONDENSATE PUMP, 120V/1PH-60HZ, 12 WATT POWER CONSUMPTION, 6.3 AMPS ALARM RELAY, 3.17 GPM/HR CAPACITY, 65.8FT MAX. VERTICAL HEAD. INSTALL PUMP ON WALL BRACKET BELOW INDOOR UNIT. UNIT WEIGHT = 3 LBS.</div>																											

FAN SCHEDULE														
UNIT	LOCATION	"MFR" MODEL NO.	CFM (LOW) STD	SP (IN. W.G.)	DUTY	STYLE	FAN WHEEL DIA.	RPM	HP	VOLT/PH	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
	AG SHOP K9	GREENHECK G-240-VG	(1740) 2900	0.20	E	RE	--	417	2.0	208/3	250			1, 2, 3
	AG SHOP K9	GREENHECK G-240-VG	(1740) 2900	0.20	E	RE	--	417	2.0	208/3	250			1, 2, 3






LEGEND
DUTY: S-SUPPLY, R-RETURN, E-EXHAUST
STYLE: BI-BACKWARD INCLINED, FC-FORWARD CURVED, AF-AIRFOIL, RD-RADIAL, TU-TUBULAR, IL-INLINE, VS-VENT SET, VA-VANE AXIAL, TA-TUBE AXIAL, PP-PROPELLAR, RE-ROOF EXHAUST, WE-WALL EXHAUST, CA-CABINET, CE-CEILING

NOTES:

1 PROVIDE WITH FACTORY 12" TALL ROOF CURB.

2 PROVIDE WITH THERMAL OVERLOAD PROTECTED MOTOR.

3 DIV. 23 TO PROVIDE MOTOR STARTER & WALL SWITCH, DIV. 26 TO PROVIDE LINE VOLTAGE POWER TO MOTOR STARTER LOCATION AND INSTALL MOTOR STARTER & SWITCH.

OUTSIDE AIR FAN SCHEDULE												
UNIT	LOCATION	"S&P" MODEL NO.	CFM	SP (IN. W.G.)	DUTY	STYLE	VOLT/PH	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	INTERLOCK	NOTES
	OFFICE K121	RF8-120EC	45	0.02	OUTSIDE AIR	INLINE	120/1	14			SHP/K1	 
NOTES: 1. INTERLOCK WITH ASSOCIATED SPLIT SYSTEM. 2. PROVIDE WITH MERV 13" X 8" X 2" FILTER.												

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APP: 02-122192 INC:
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SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

DSA APP. NO: 02-122192



**3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655**



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

[illegible]

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

MECHANICAL SCHEDULE AND NOTES

M0.2

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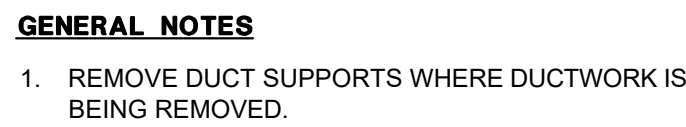


REVISIONS

[illegible]

CONSTRUCTION DOCUMENT

M2.0

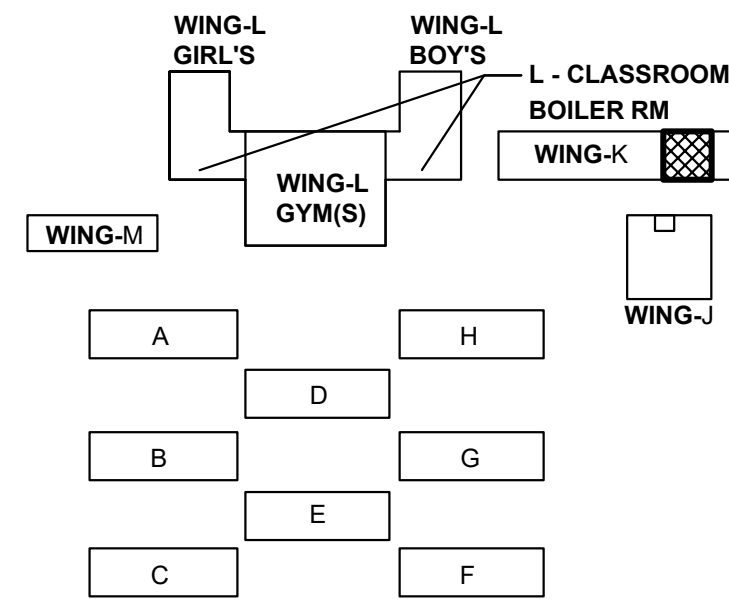


SHEET NOTES:

- ① REMOVE EQUIPMENT, DUCTWORK, SUPPORTS AND PATCH ANY OPENINGS TO MATCH SURROUNDING SURFACES.

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

1
M2.0



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A graphic featuring a stylized city skyline with various building silhouettes in white and grey against a solid blue background. Above the skyline are three white, cloud-like shapes. Below the skyline, the words "COMMUNITY ARCHITECTURE" are written in a bold, white, sans-serif font, stacked in two lines. The entire graphic is enclosed within a dark blue rectangular border.

DATE SIGNED: 06/06/2024

capital
engineerin
RAMON CORDOVA, CALIFORNIA
RL 232073.00
PM - DESIGN TEAM PROJECT NO.



STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

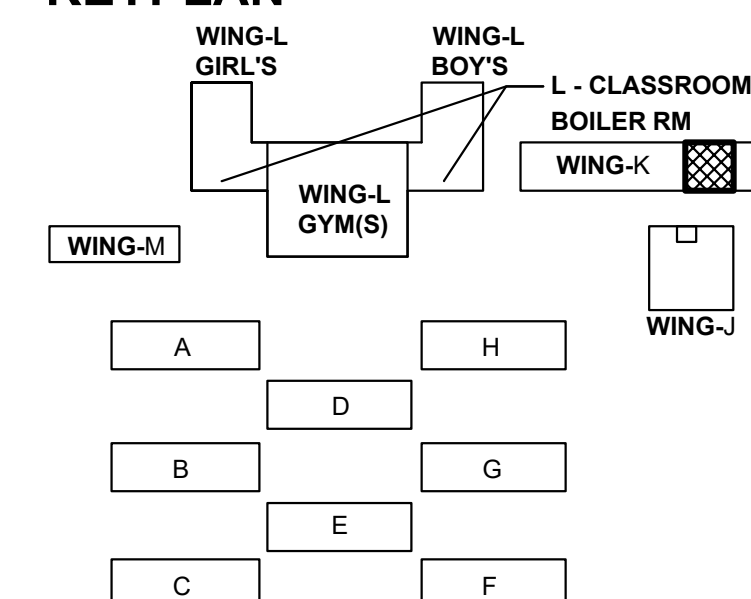
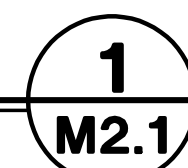
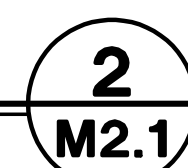
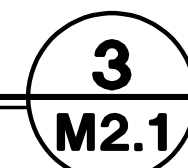
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PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

MECHANICAL
FLOOR PLAN

M2.1



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DIV. OF THE STATE ARCHITECT
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SS ☒ FLS ☒ ACS ☒
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DATE SIGNED: 06/06/2024

capital
engineering
RANCHO CORDOVA, CALIFORNIA
RL 232073.00
PM - DESIGN TEAM PROJECT NO.

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

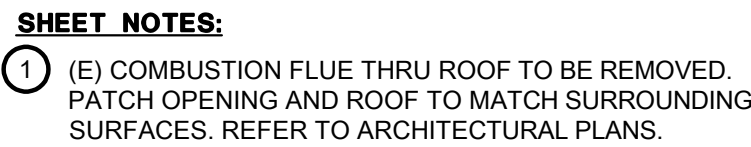
REVISIONS

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CONSTRUCTION DOCUMENT

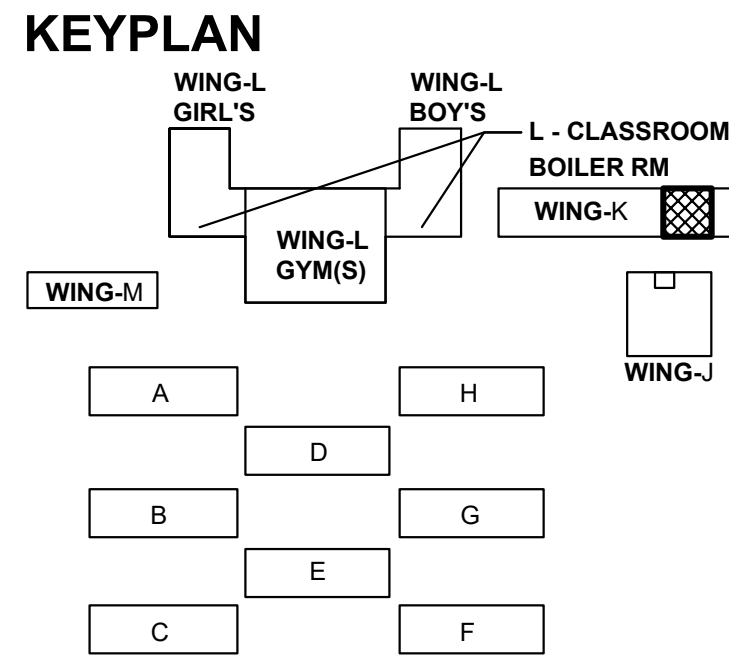
MECHANICAL
DEMO ROOF
PLAN

M3.0



1
M3.0

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



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DIV. OF THE STATE ARCHITECT
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SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

**COMMUNITY
ARCHITECTURE**

3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655



DATE SIGNED: 06/06/2024



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

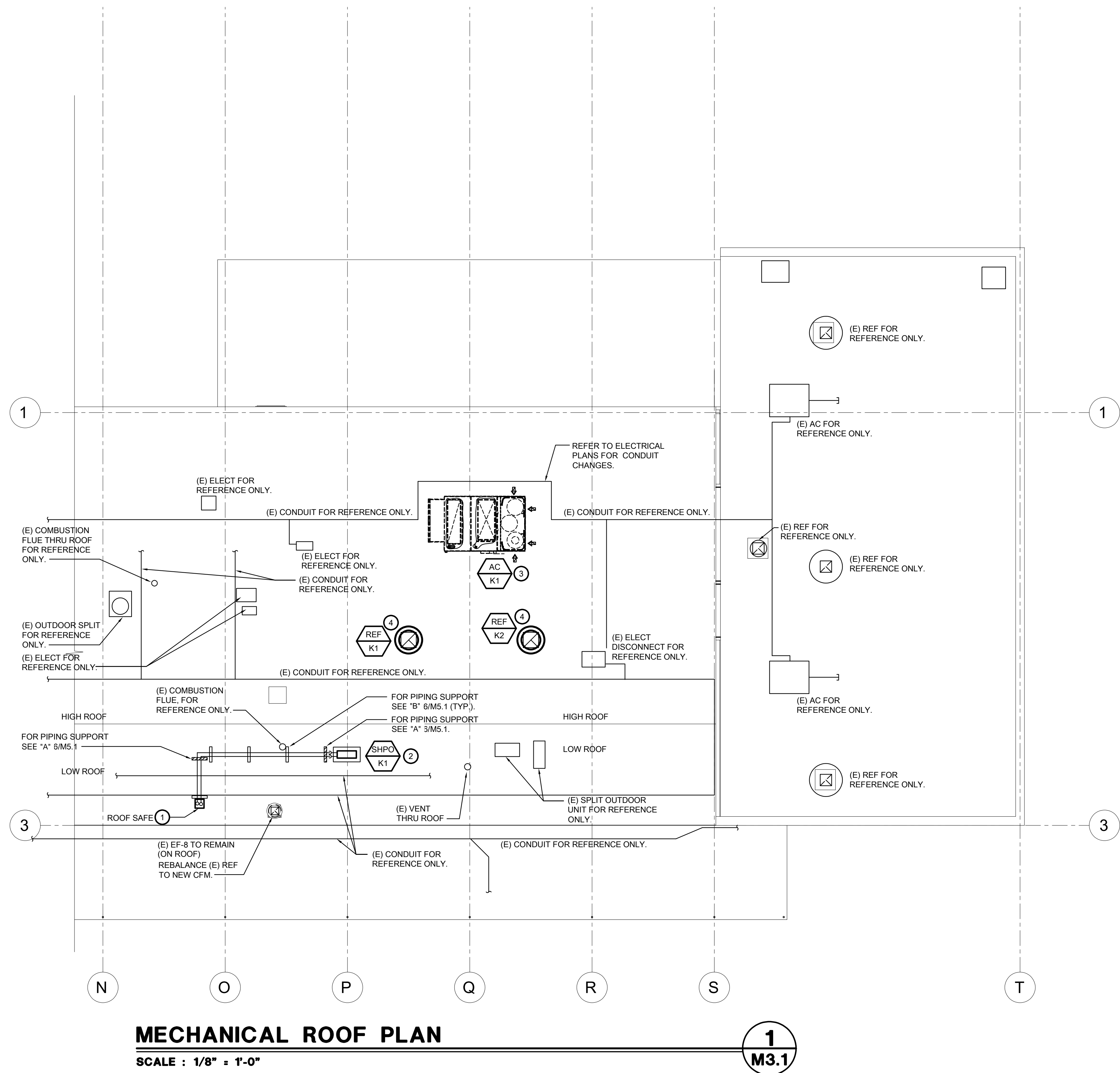
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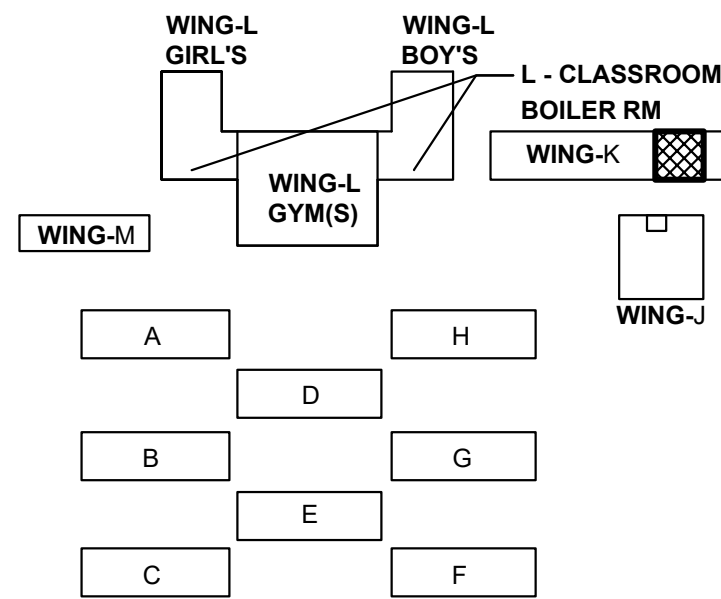
CONSTRUCTION DOCUMENTS

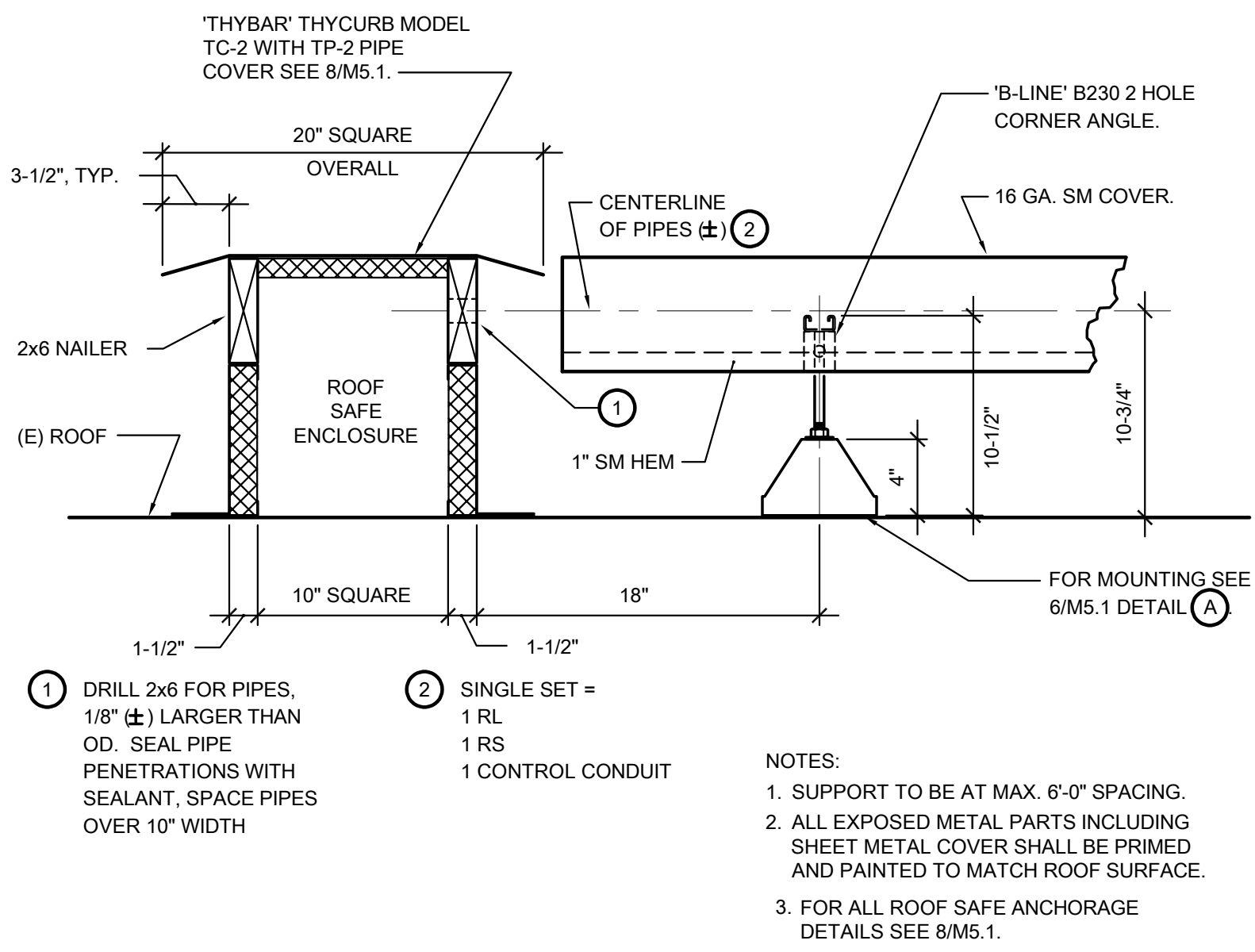
MECHANICAL ROOF PLAN

M3.1

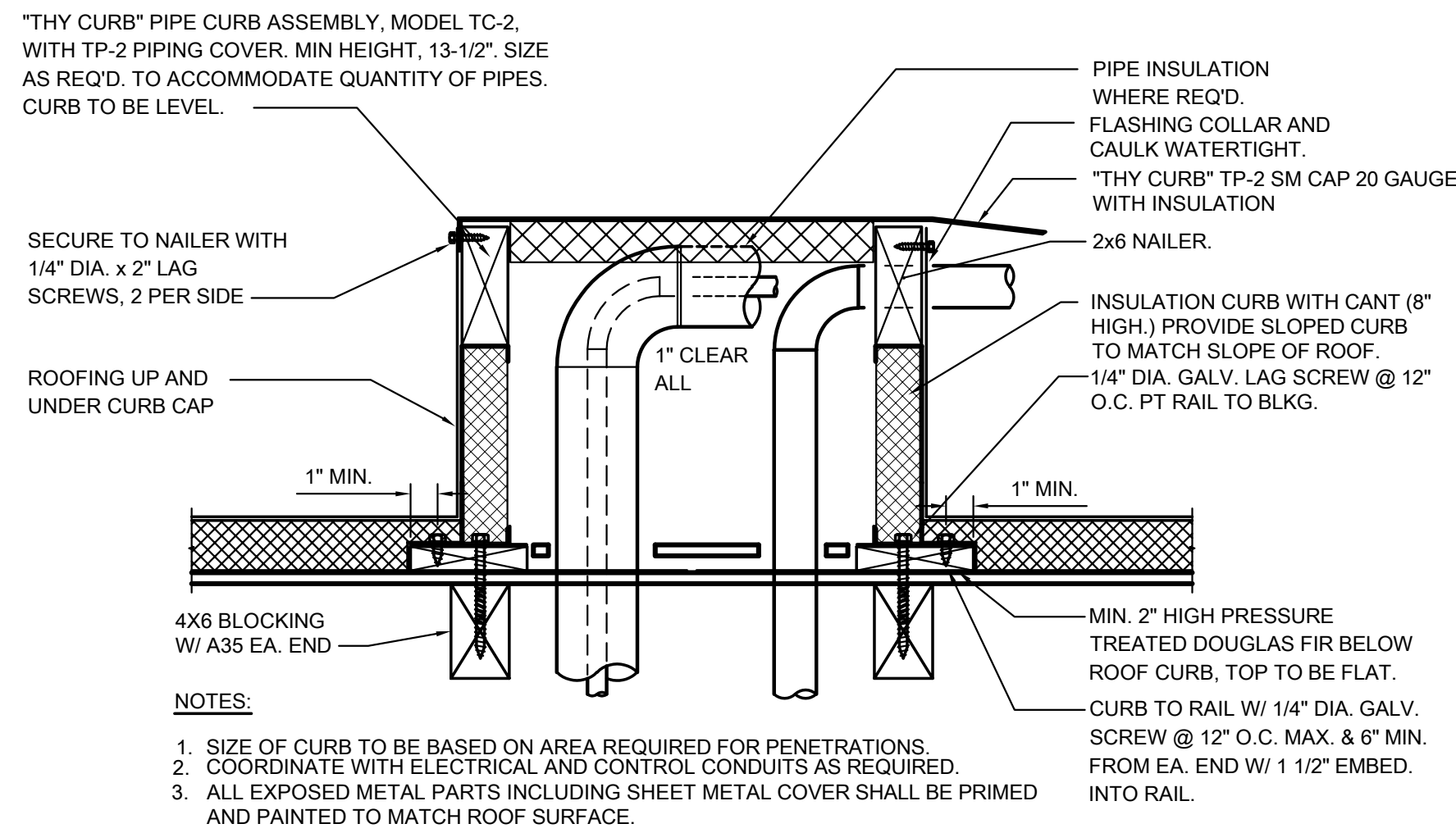


KEYPLAN

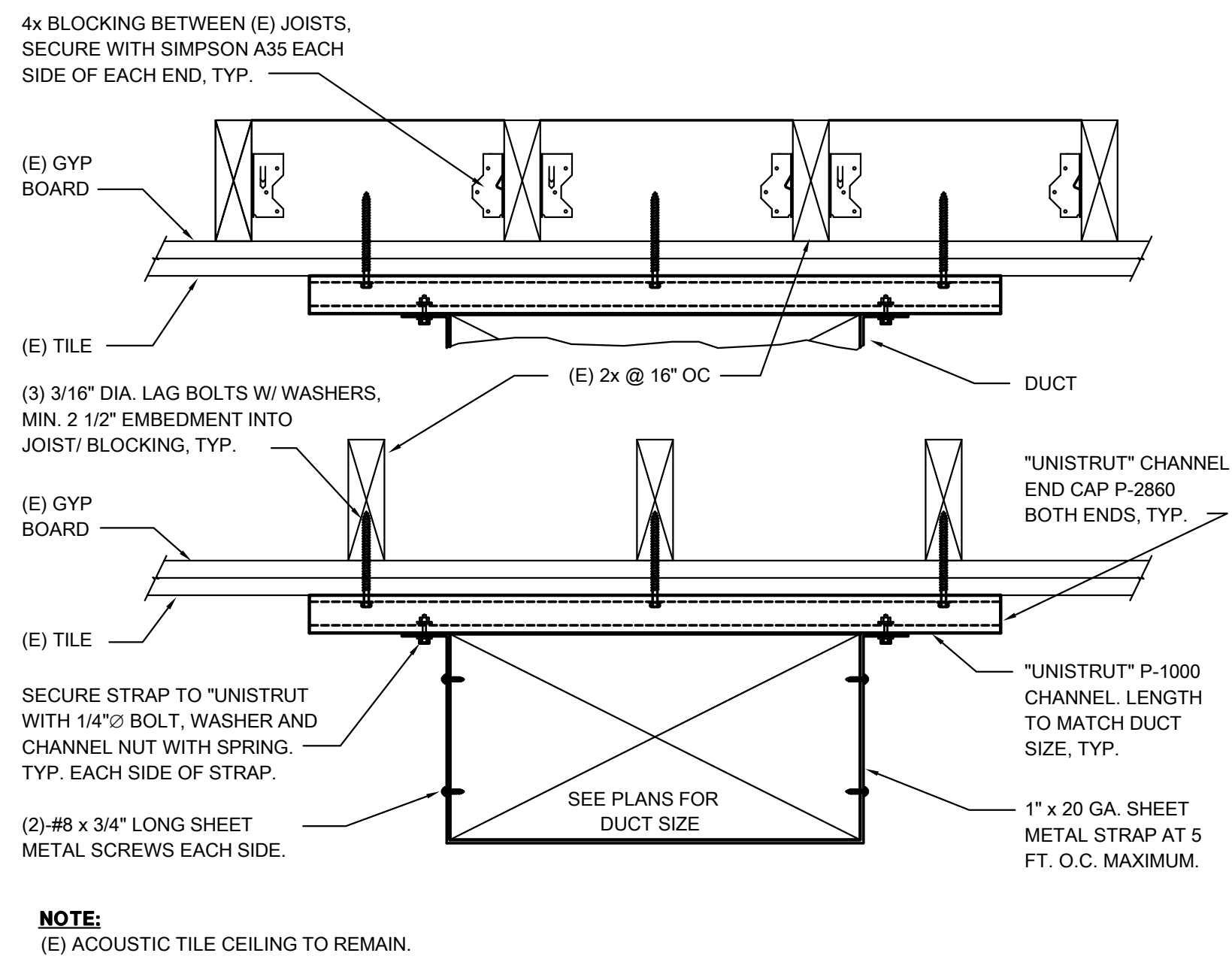




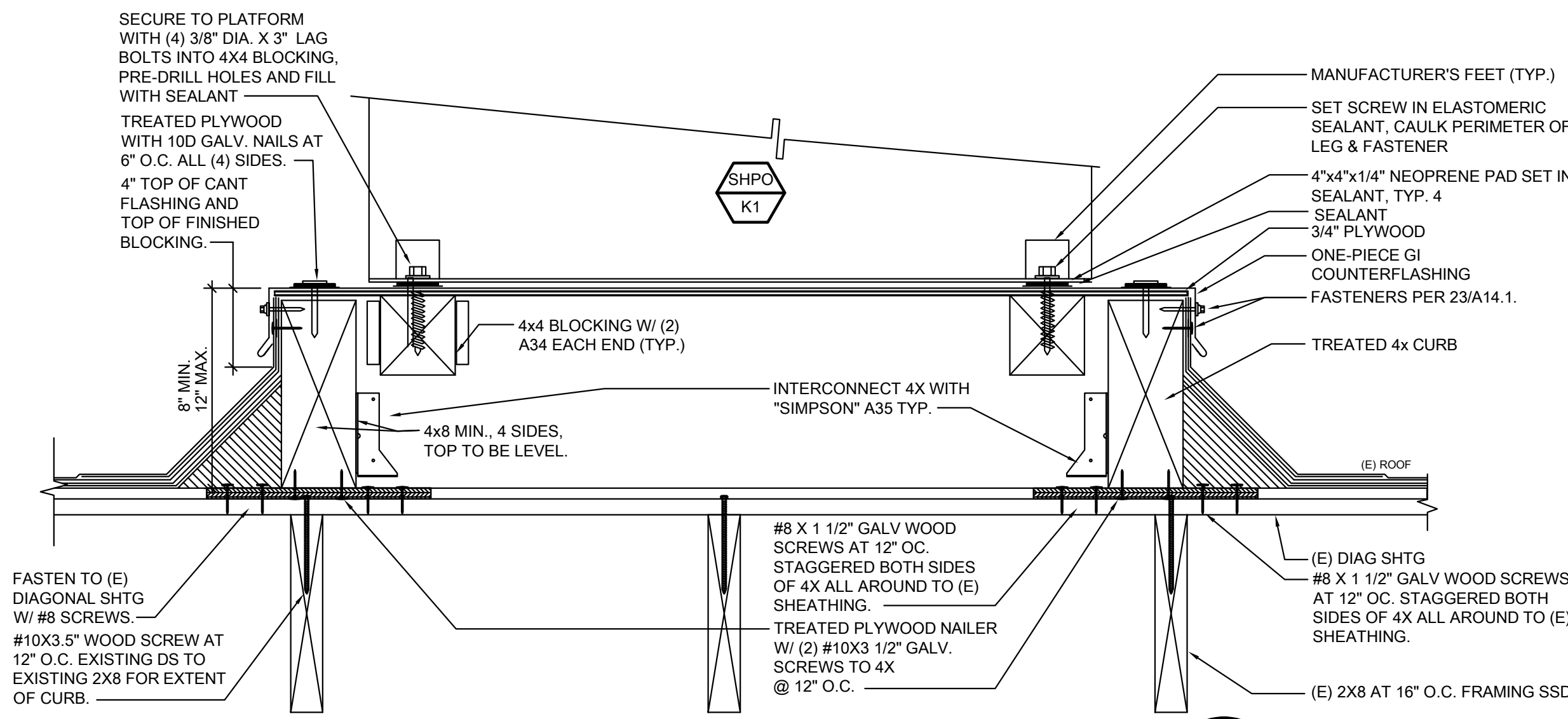
PIPE ON ROOF MOUNTING
SCALE : NONE



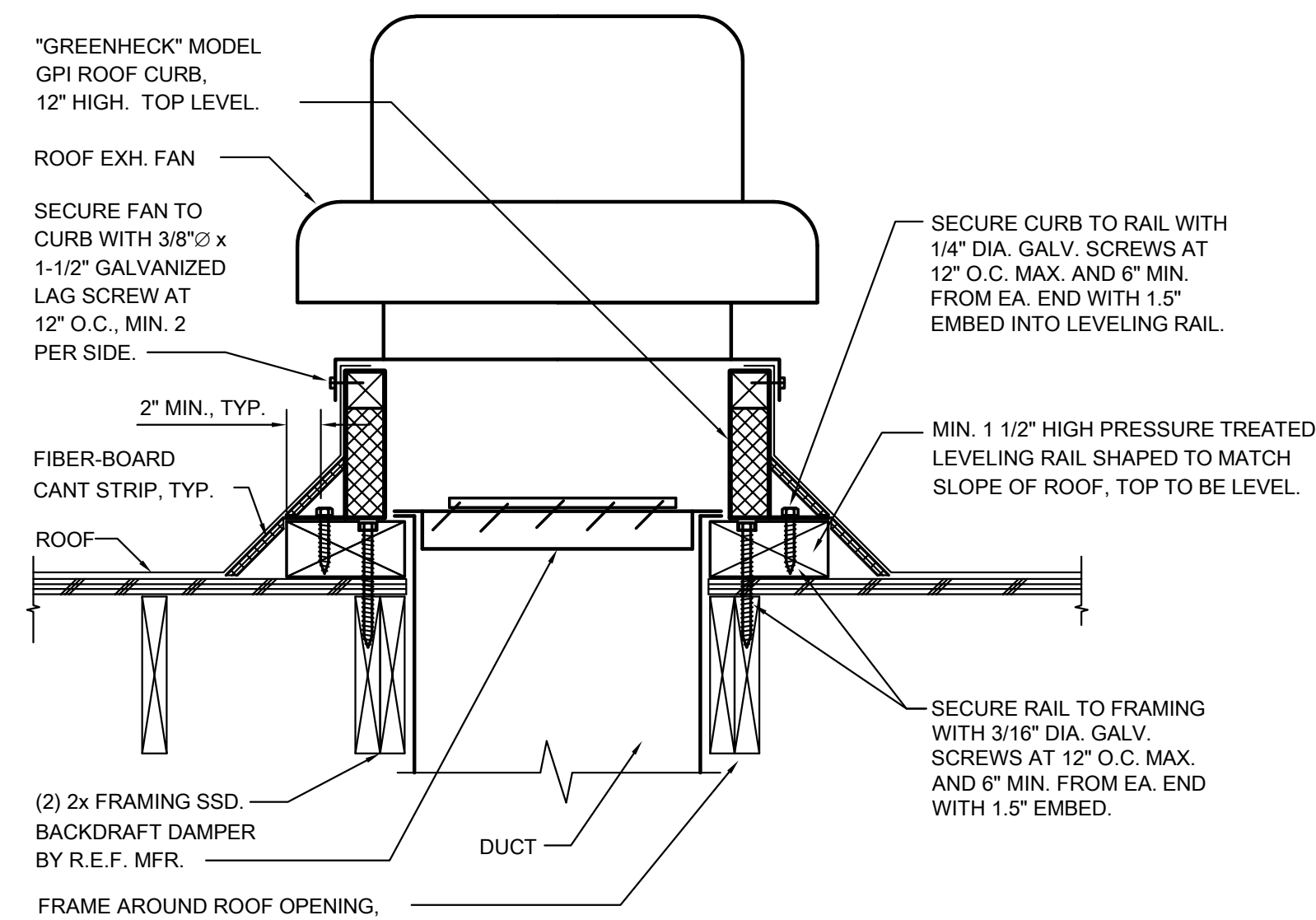
PIPE THRU ROOF SAFE DETAIL
SCALE : NONE



RECTANGULAR DUCT SUPPORT
SCALE : NONE

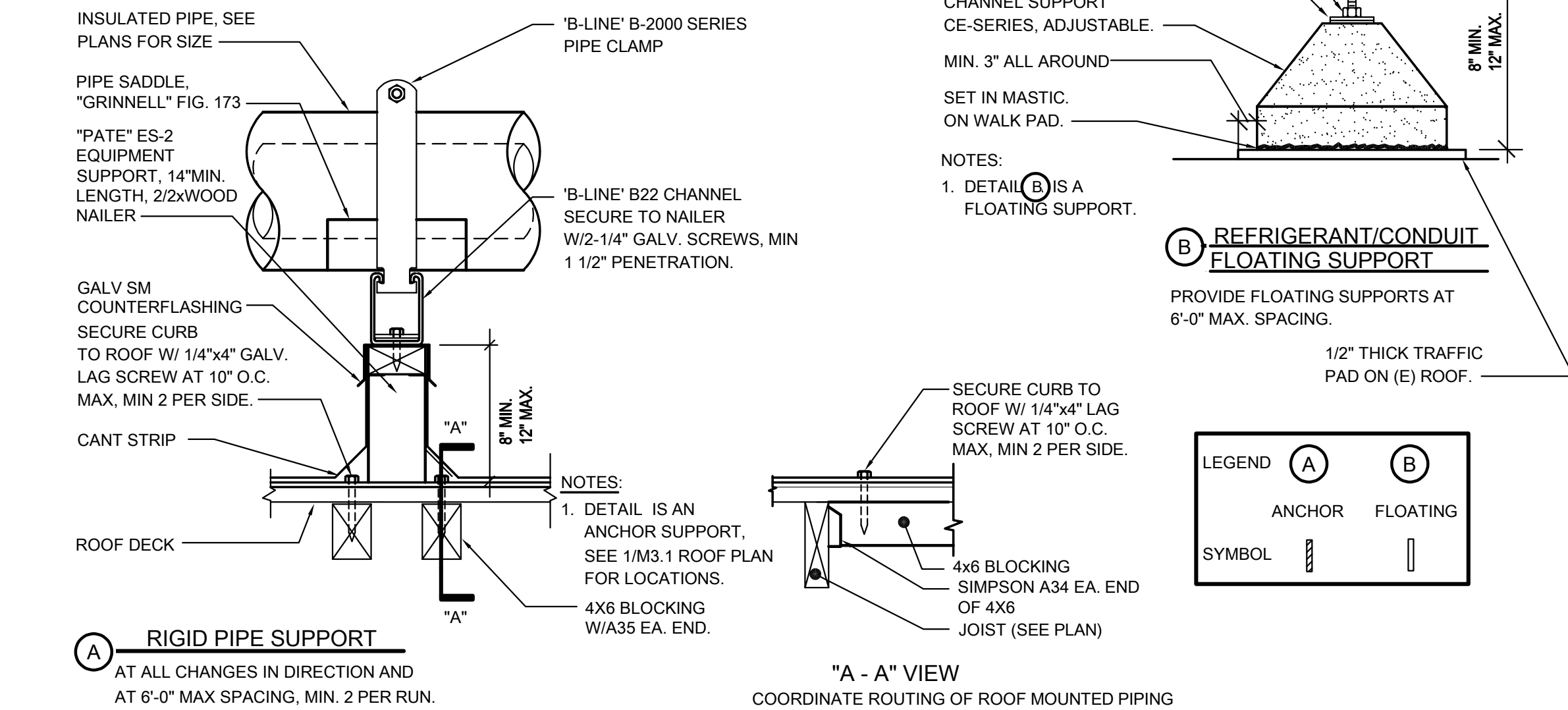


SPLIT SYSTEM OUTDOOR MOUNTING
SCALE : NONE

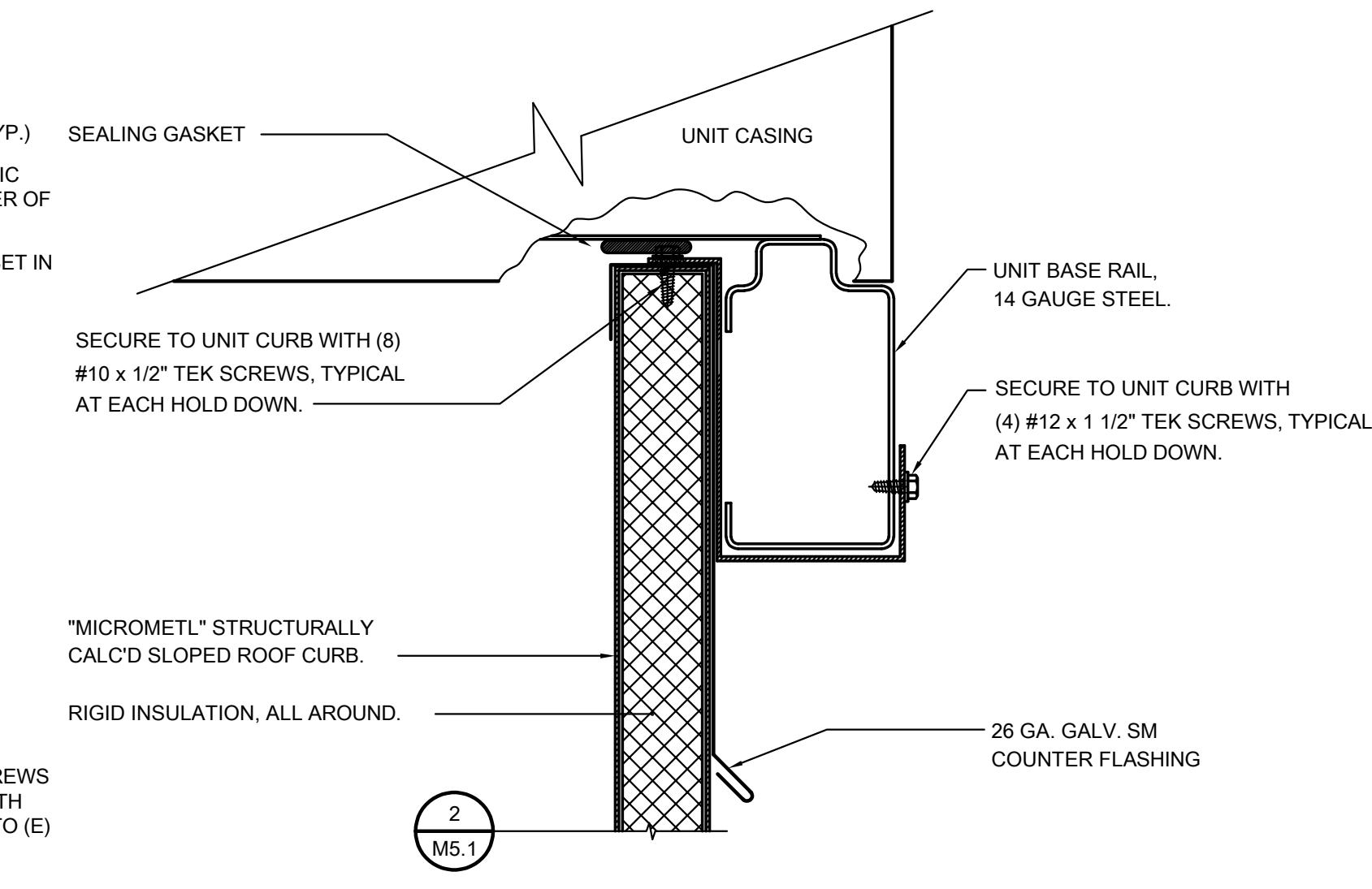


TYPICAL REF MOUNTING
SCALE : NONE

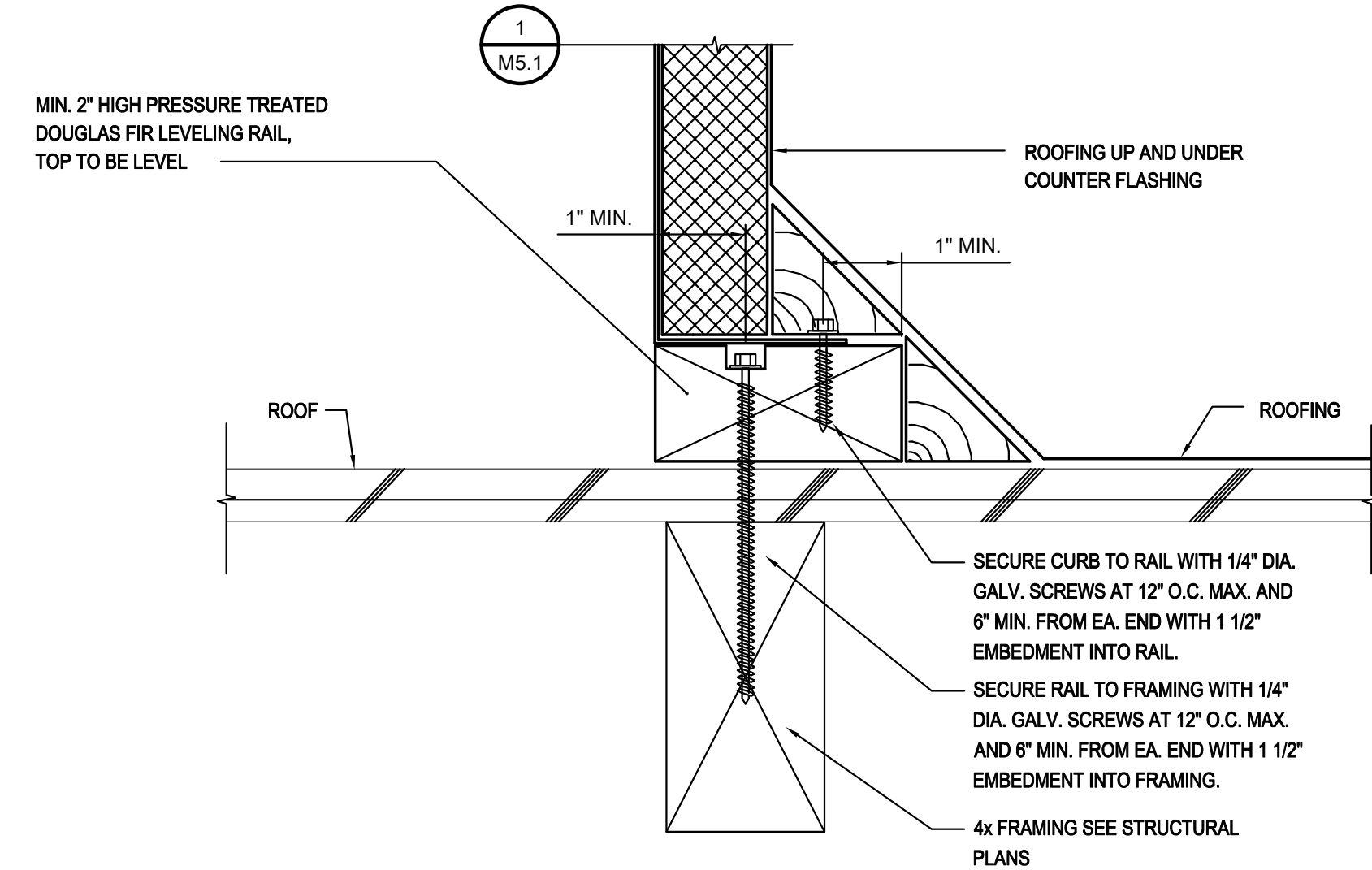
STEEL PIPE, NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)	NOMINAL SIZE OF TUBING SMOOTH-WALL (IN. O.D.)	SPACING OF SUPPORTS (FT.)
1/2	6	1/2	4
3/4 OR 1	8	5/8 OR 3/4	6
1 1/4 OR LARGER (HORZ.)	10	1 OR LARGER (HORZ.)	8
1 1/4 OR LARGER (VERT.)	EVERY FLOOR LEVEL	1 OR LARGER (VERT.)	EVERY FLOOR LEVEL



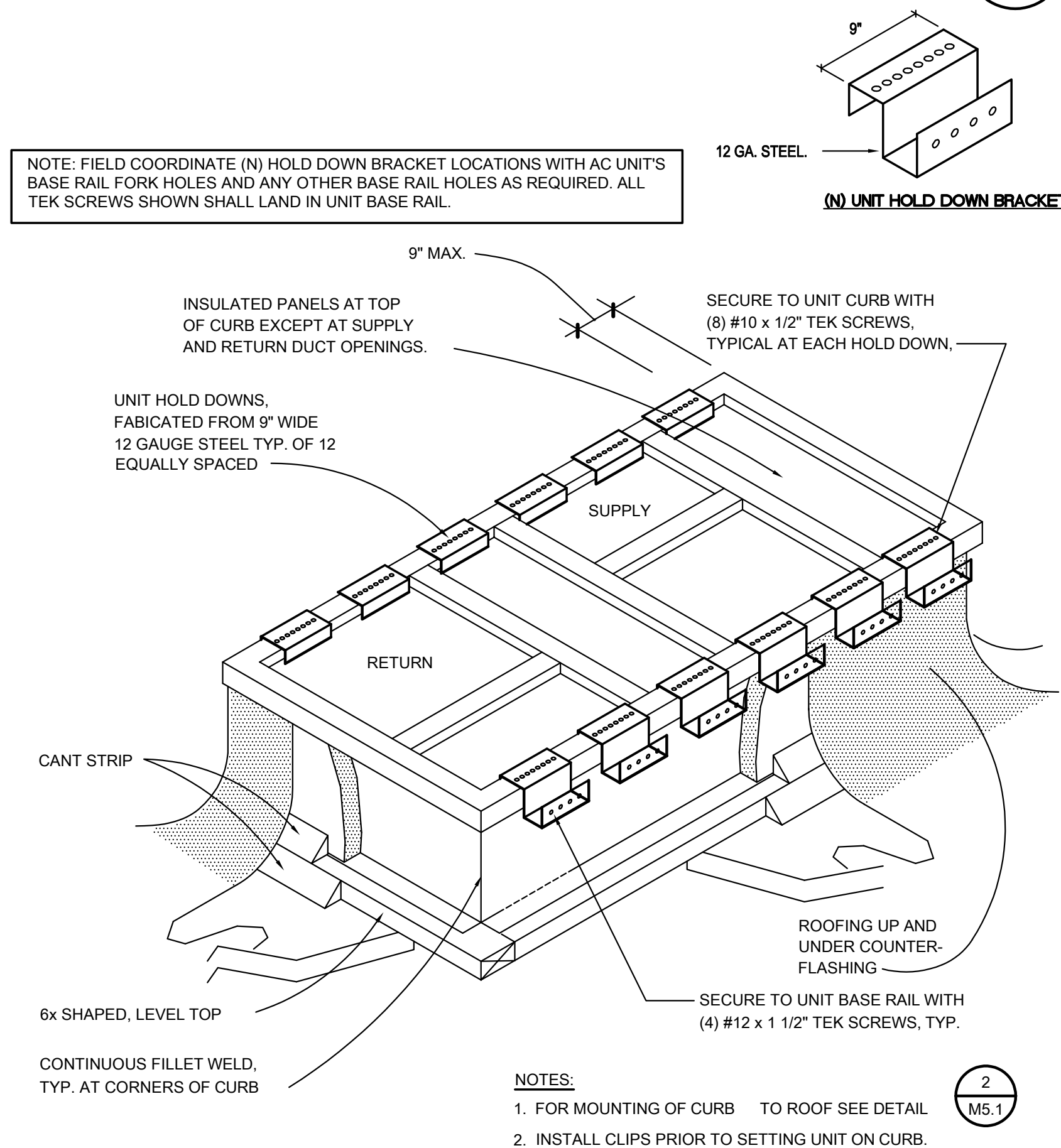
REFRIGERANT PIPE ON ROOF DETAIL
SCALE : NONE



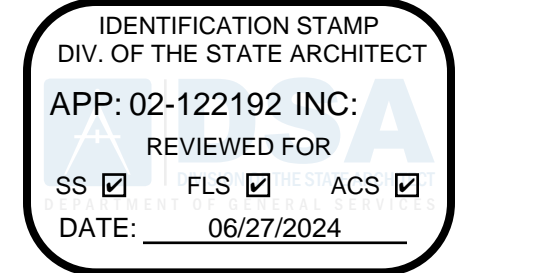
AC UNIT TO CURB MOUNTING
SCALE : NONE



CURB TO STRUCTURE MOUNTING
SCALE : NONE



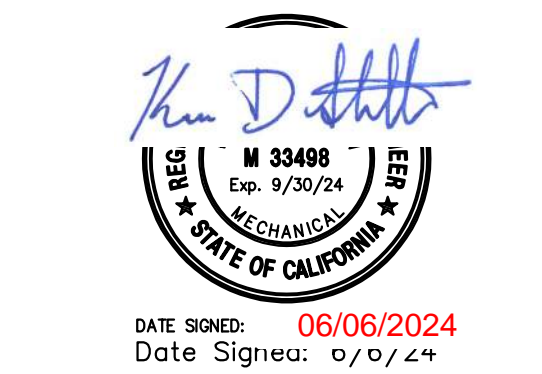
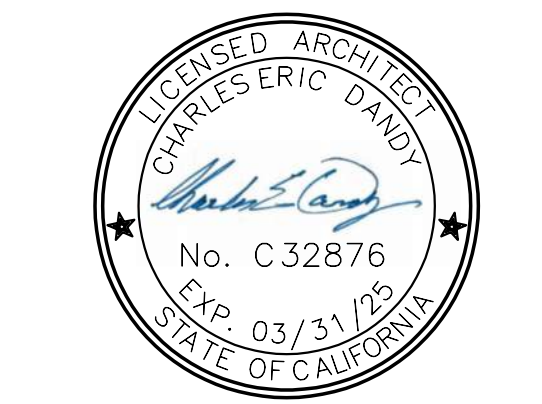
HOLD DOWN BRACKET MOUNTING DETAIL
SCALE : NONE



DSA APP. NO: 02-122192



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55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

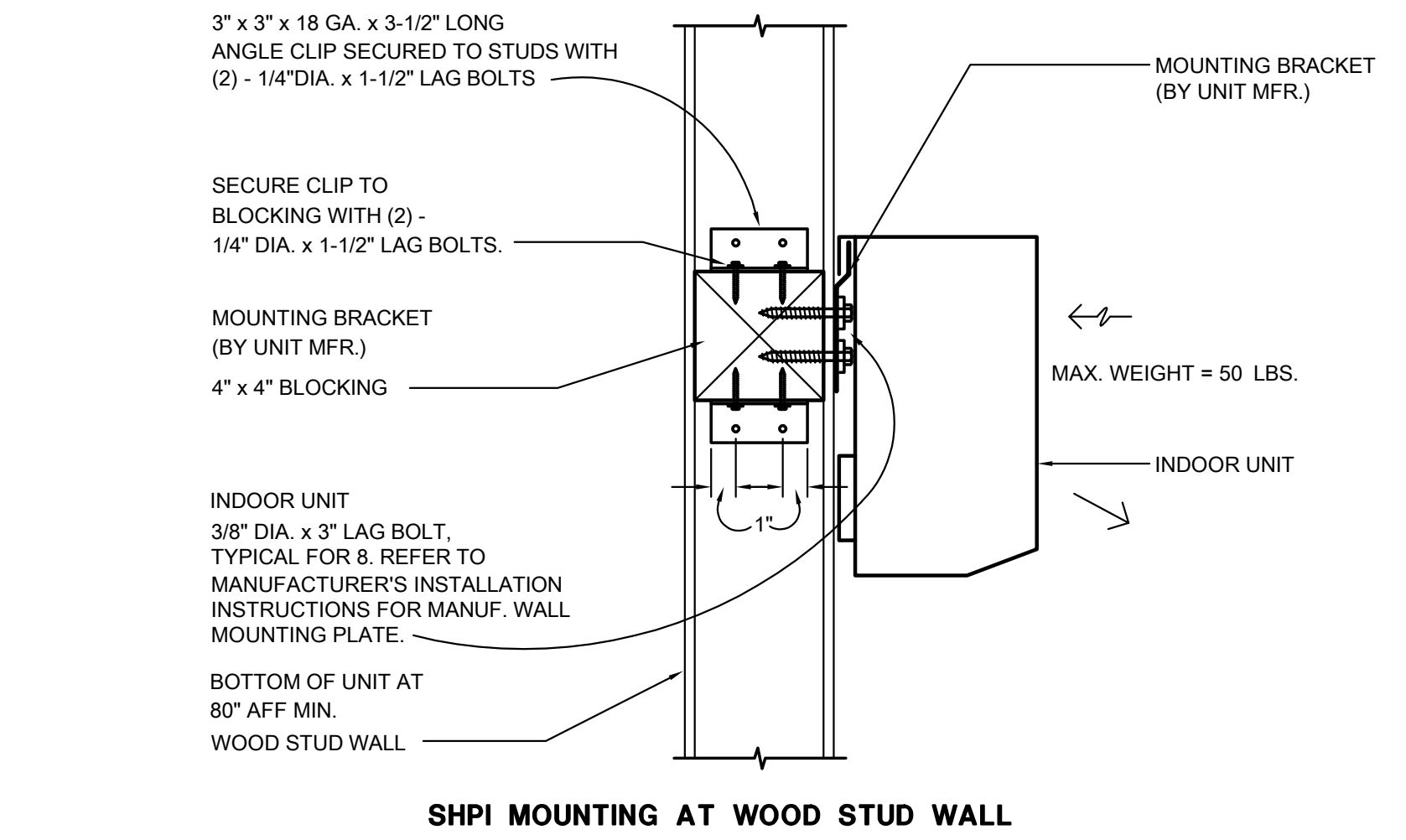
No.	Description	Date
1	Revision 1	Date 1

PROJECT No.: 2023-014.00

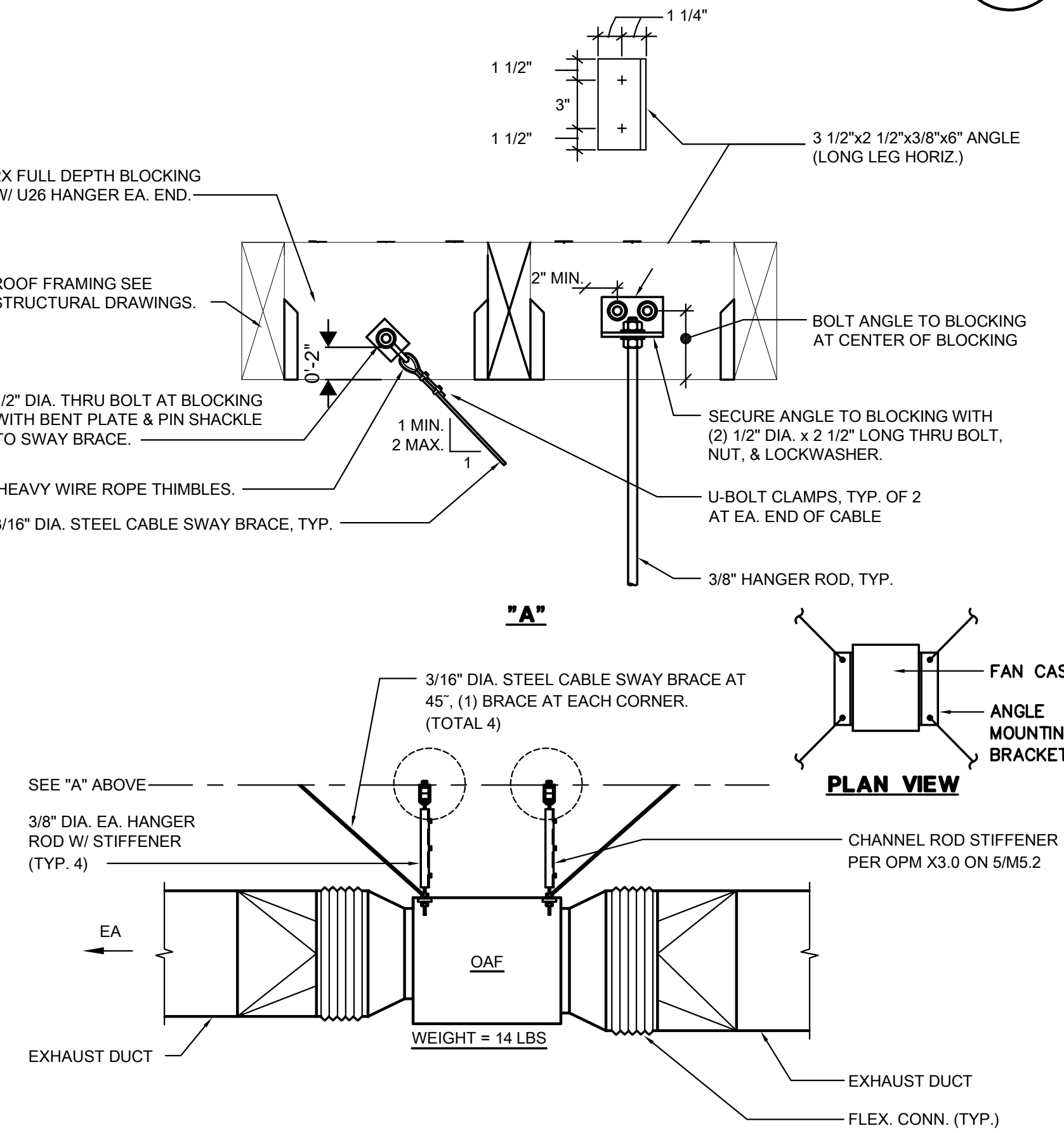
CONSTRUCTION DOCUMENTS

MECHANICAL DETAILS

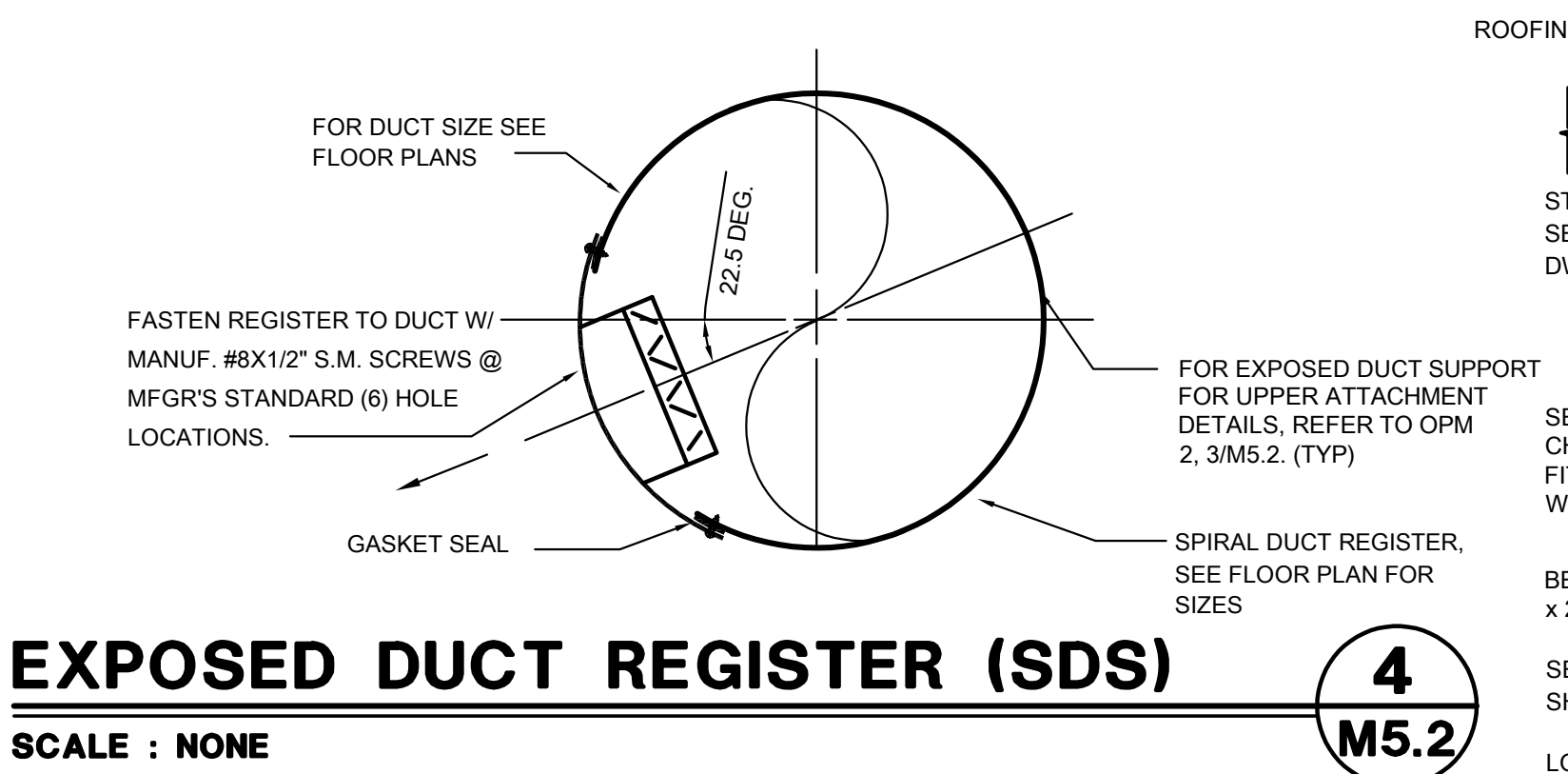
M5.1



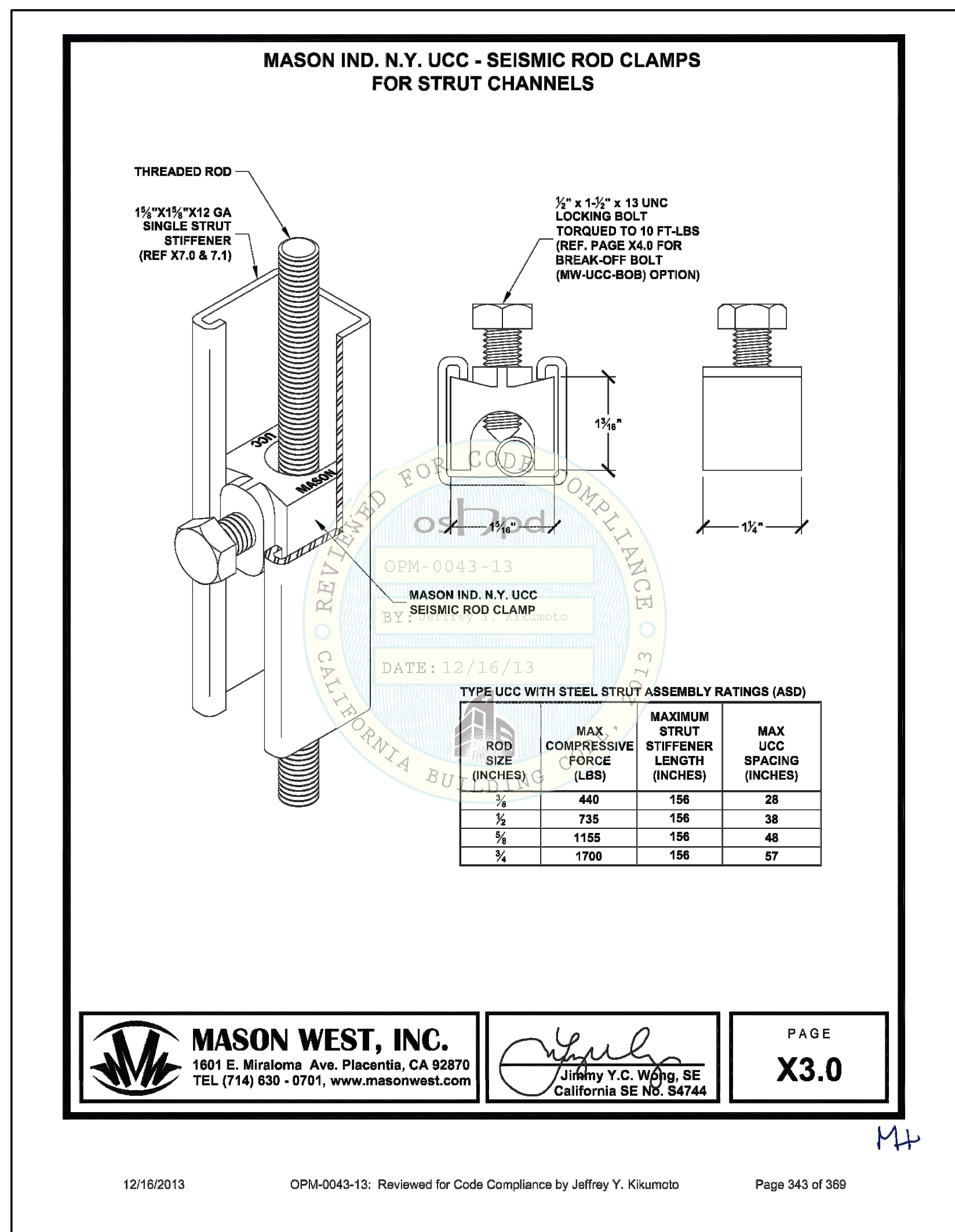
INDOOR SPLIT SYSTEM MOUNTING
SCALE : NONE



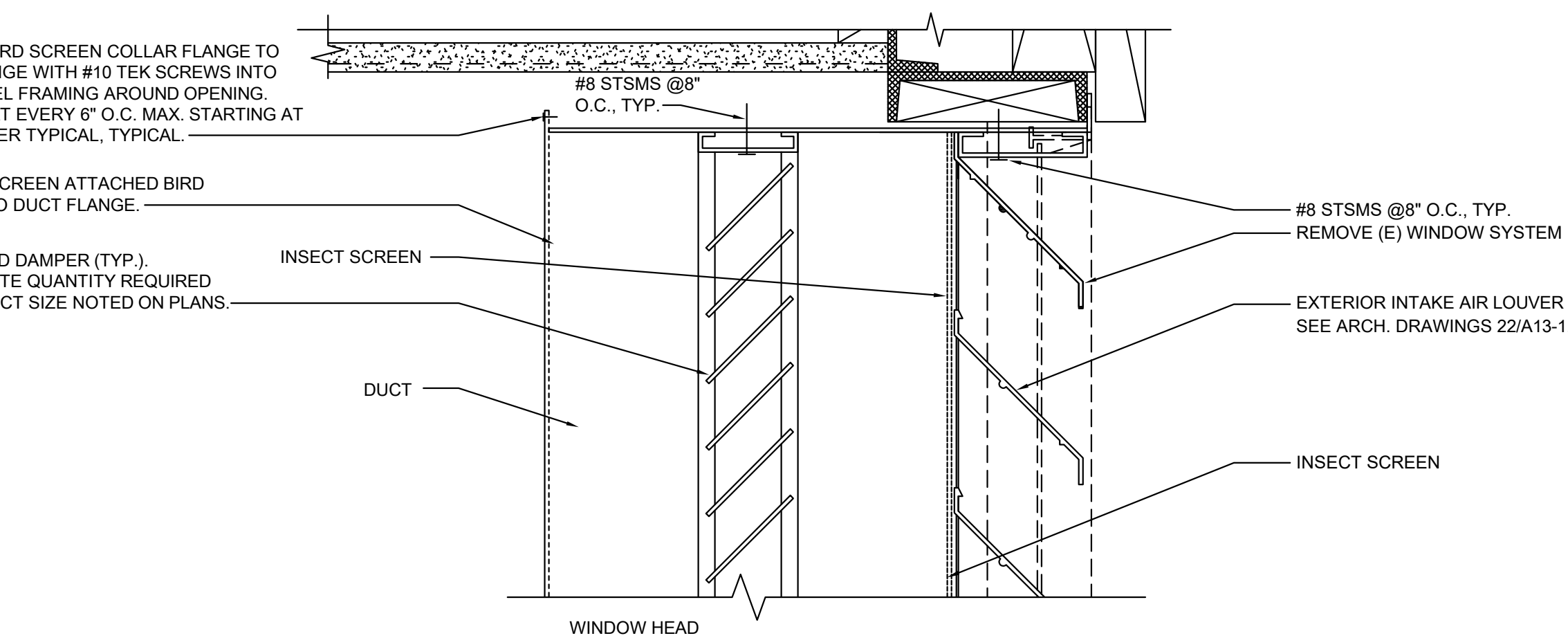
IN-LINE OA FAN MOUNTING
SCALE : NONE



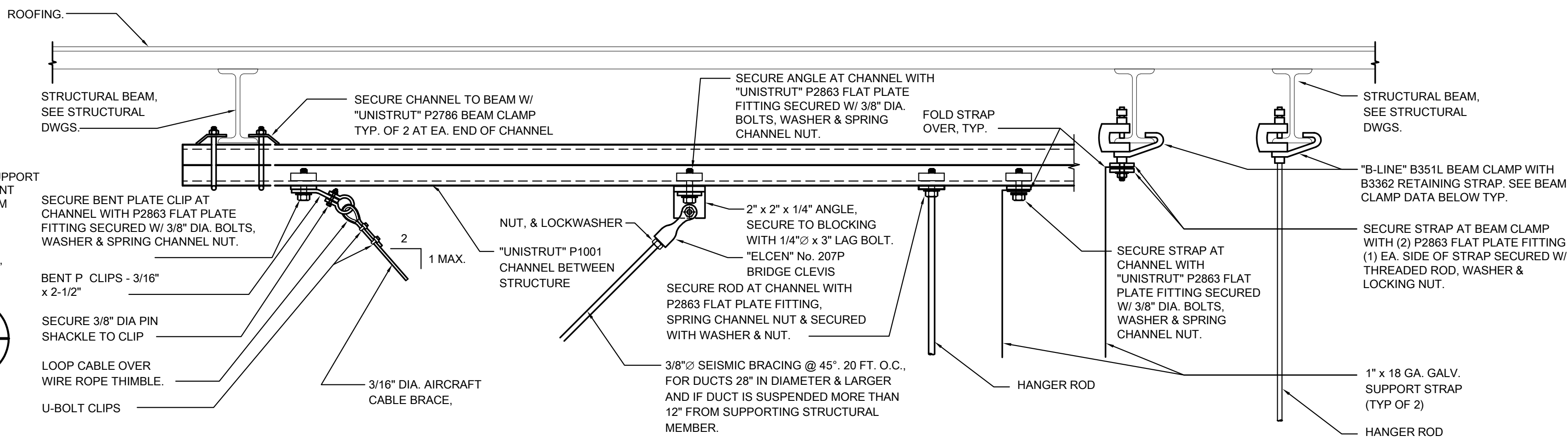
EXPOSED DUCT REGISTER (SDS)
SCALE : NONE



ROD STIFFENER DETAIL
SCALE : NONE



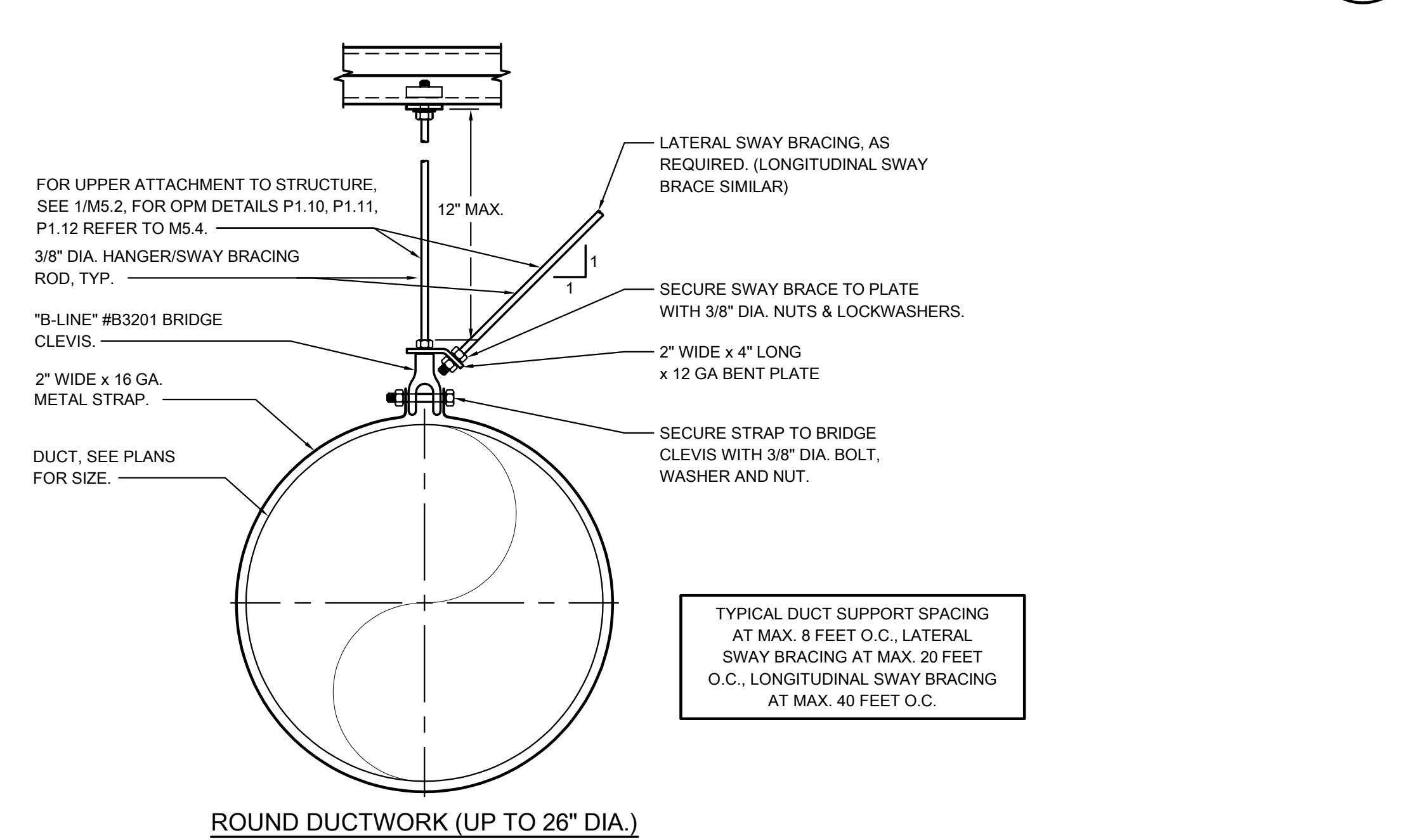
INTAKE AIR AT WINDOW AND EXTERIOR WALL - SECTION
SCALE : NONE



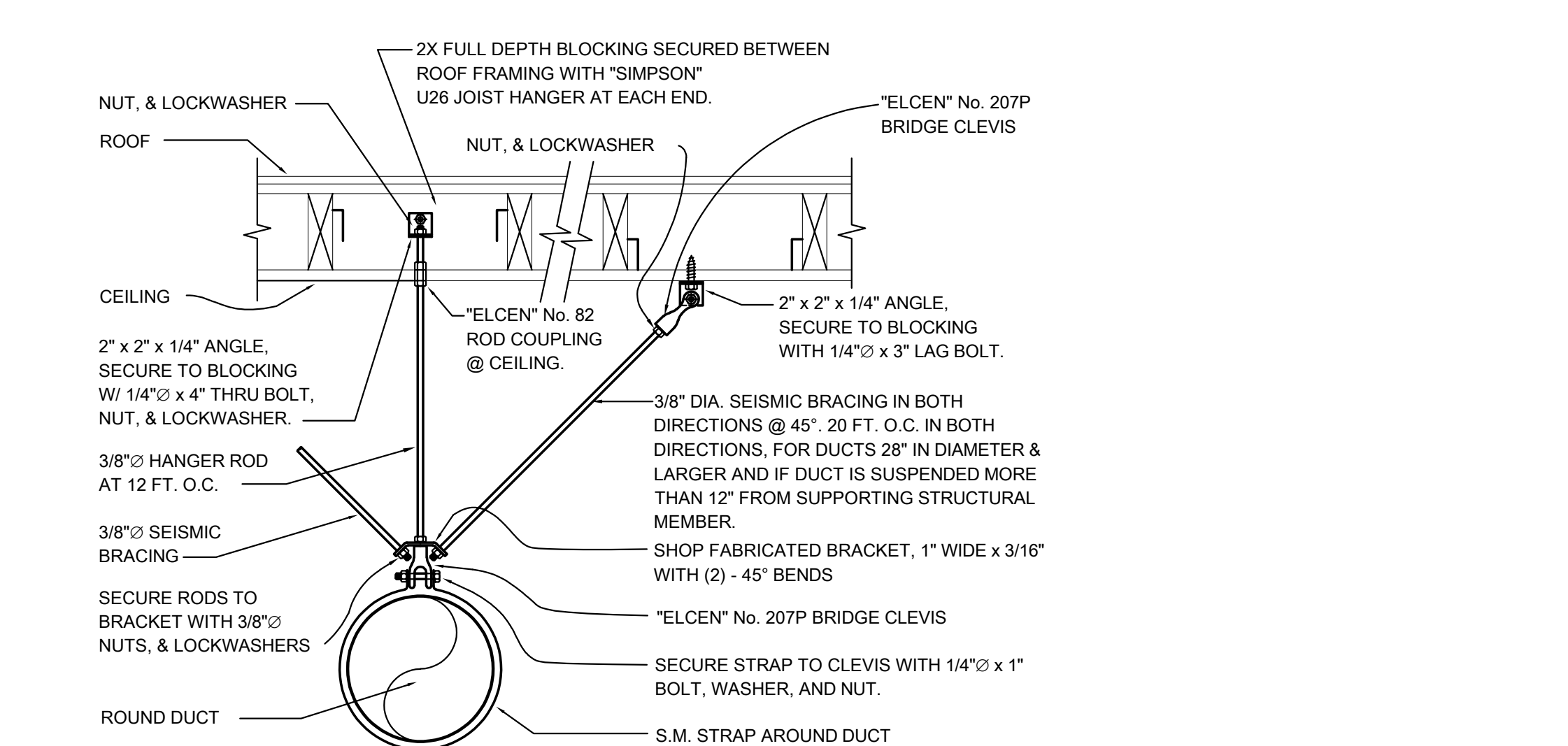
BEAM CLAMP DATA									
Part No.	Rod Size 'A'	'B' In	'C' In	'D' In	'E' In	Design Load Lbs			
B351L-3/8	3/8"-16	2 3/8"	2 3/8"	3/4"	1 3/8"	230			
B351L-1/2	1/2"-13	2 3/8"	2 3/8"	3/4"	1 3/8"	380			
B351L-5/8	5/8"-11	2 3/8"	2 3/8"	3/4"	1 3/8"	550			
B351L-3/4	3/4"-10	2 3/8"	3 1/4"	3/4"	1 3/8"	630			
B351L-7/8	7/8"-9	3"	3 1/4"	1"	1 7/8"	1200			

RETAINING STRAP									
Part No.	For Use With	6" = LBS	8" = LBS	10" = LBS	12" = LBS	'A' in	'B' in		
B3362-L	B351L-3/8" & 1/2"	17	24	31	38	1.250"	7/16"		
B3363-L	B351L-5/8" & 3/4" - B3036L-5/8" & 1/2"	16	23	30	37	1.250"	5/8"		
B3364-L	B3036L-5/8" & 3/4"	16	23	30	37	1.250"	1 1/16"		
B3365-L	B351L-7/8"	21	29	37	46	1.500"	3/4"		

UPPER ATTACHMENT AT STRUCTURE
SCALE : NONE



TYPICAL EXPOSED ROUND DUCT SUPPORT
SCALE : NONE



DUCT HANGER DETAIL
SCALE : NONE



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55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

**STAGG HIGH SCHOOL
AGRICULTURAL
MECHANICS SHOP
RENOVATION**

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

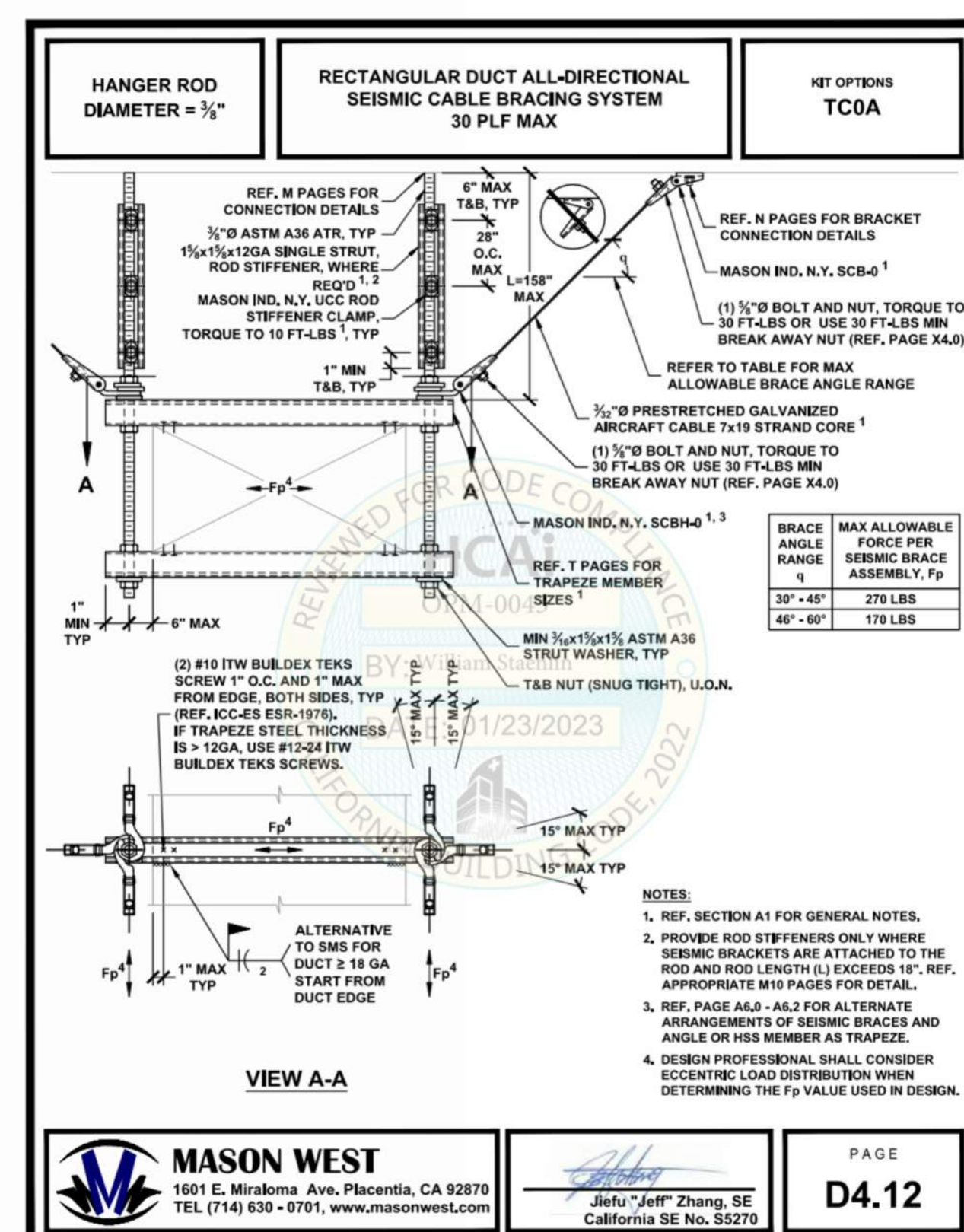
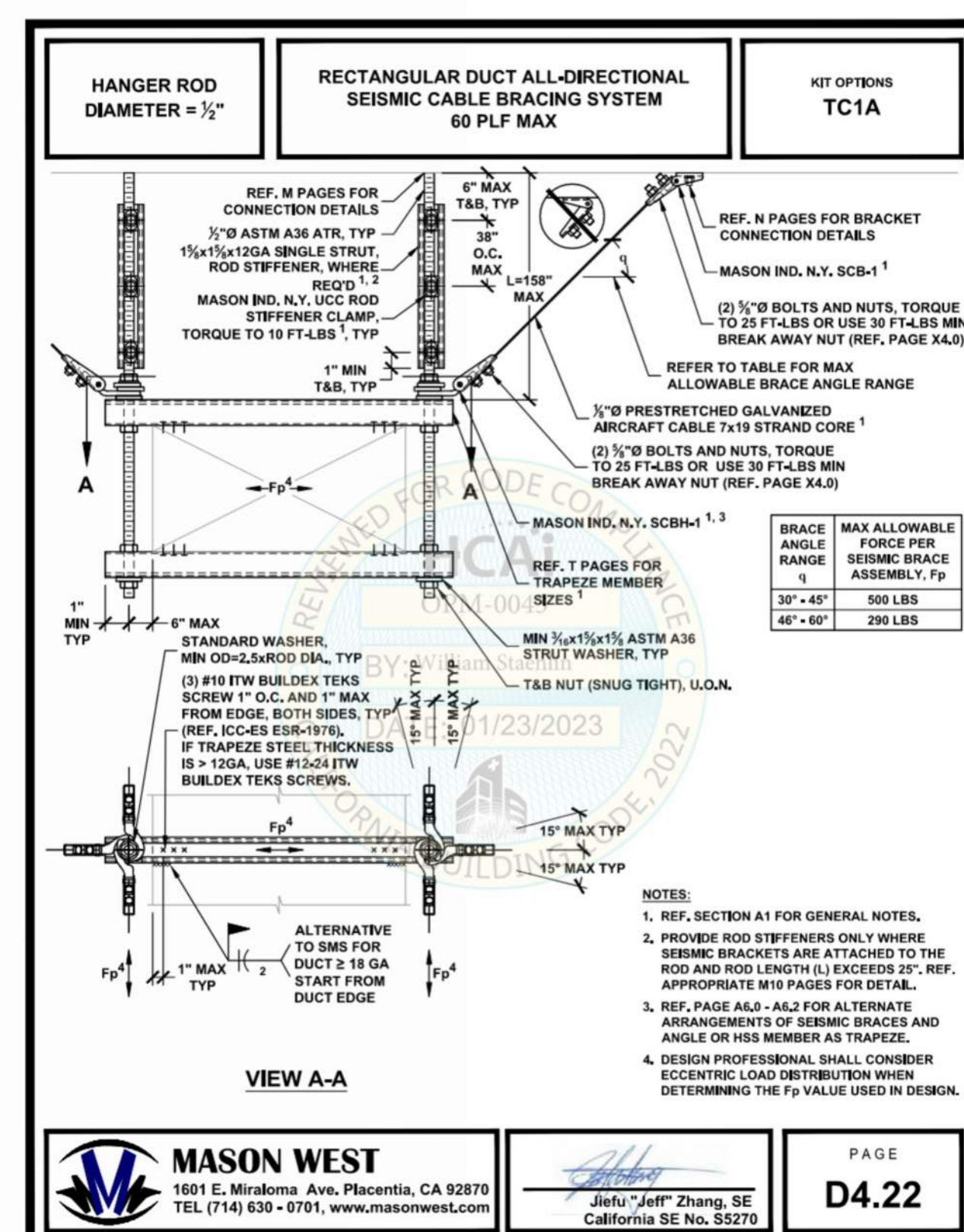
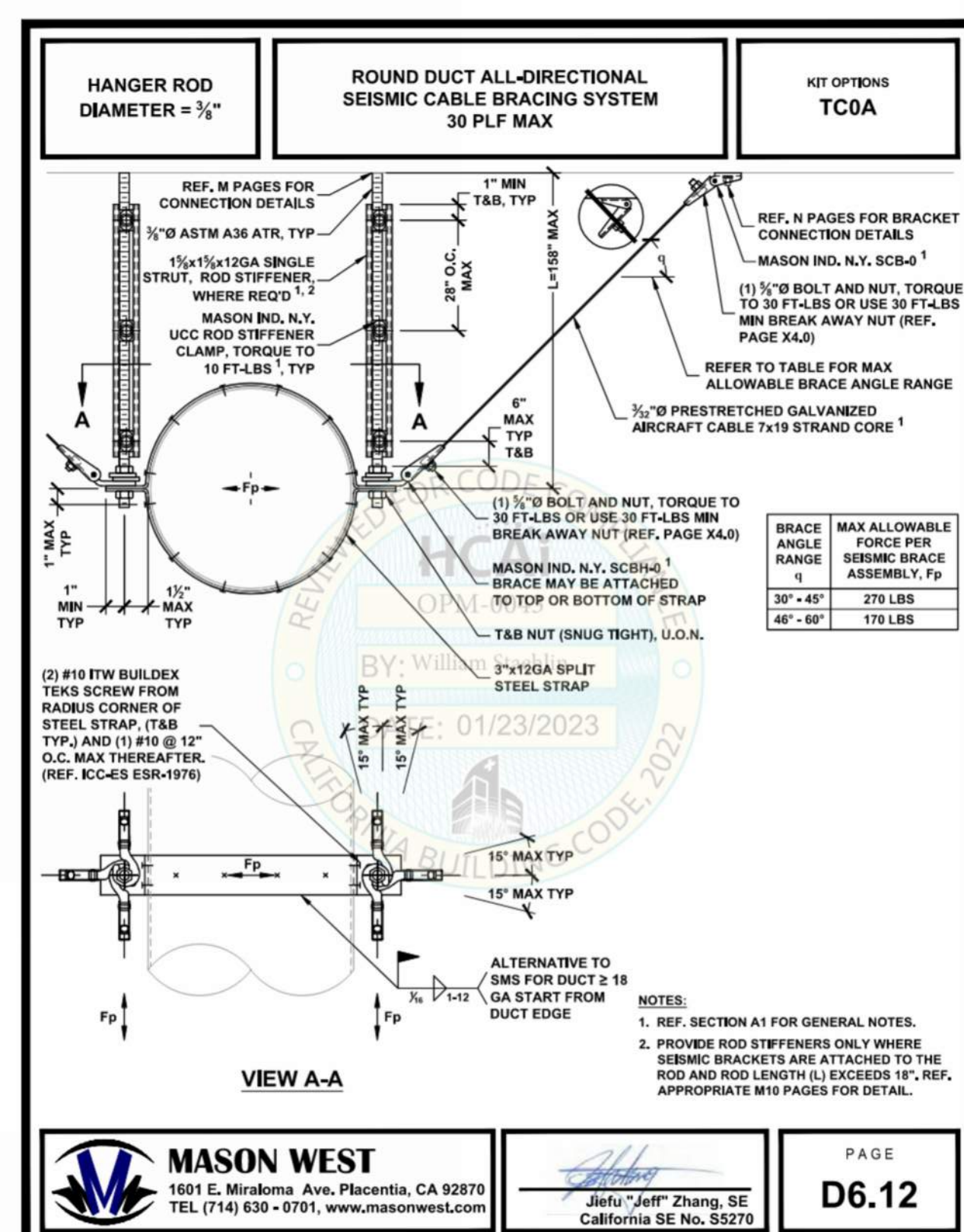
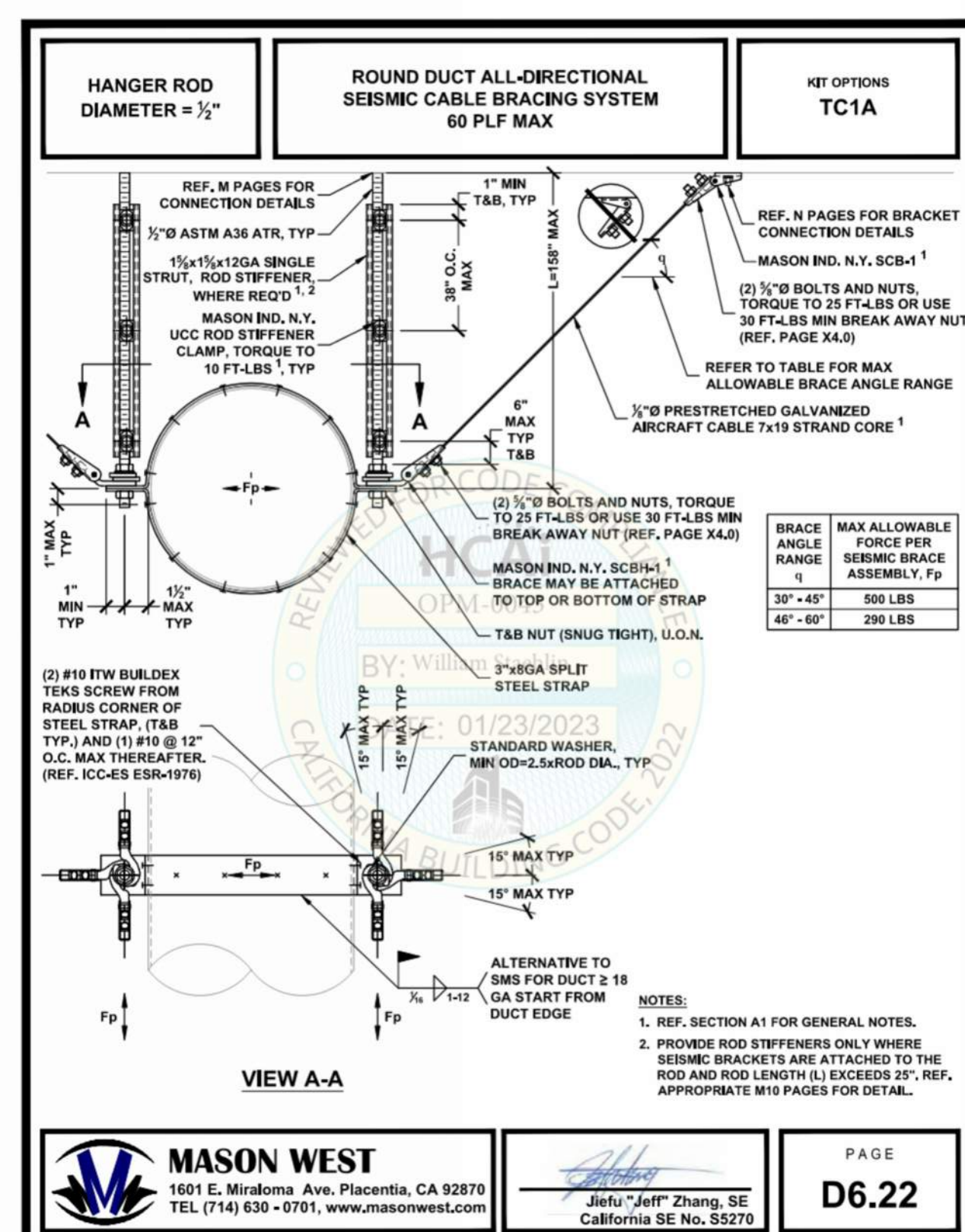
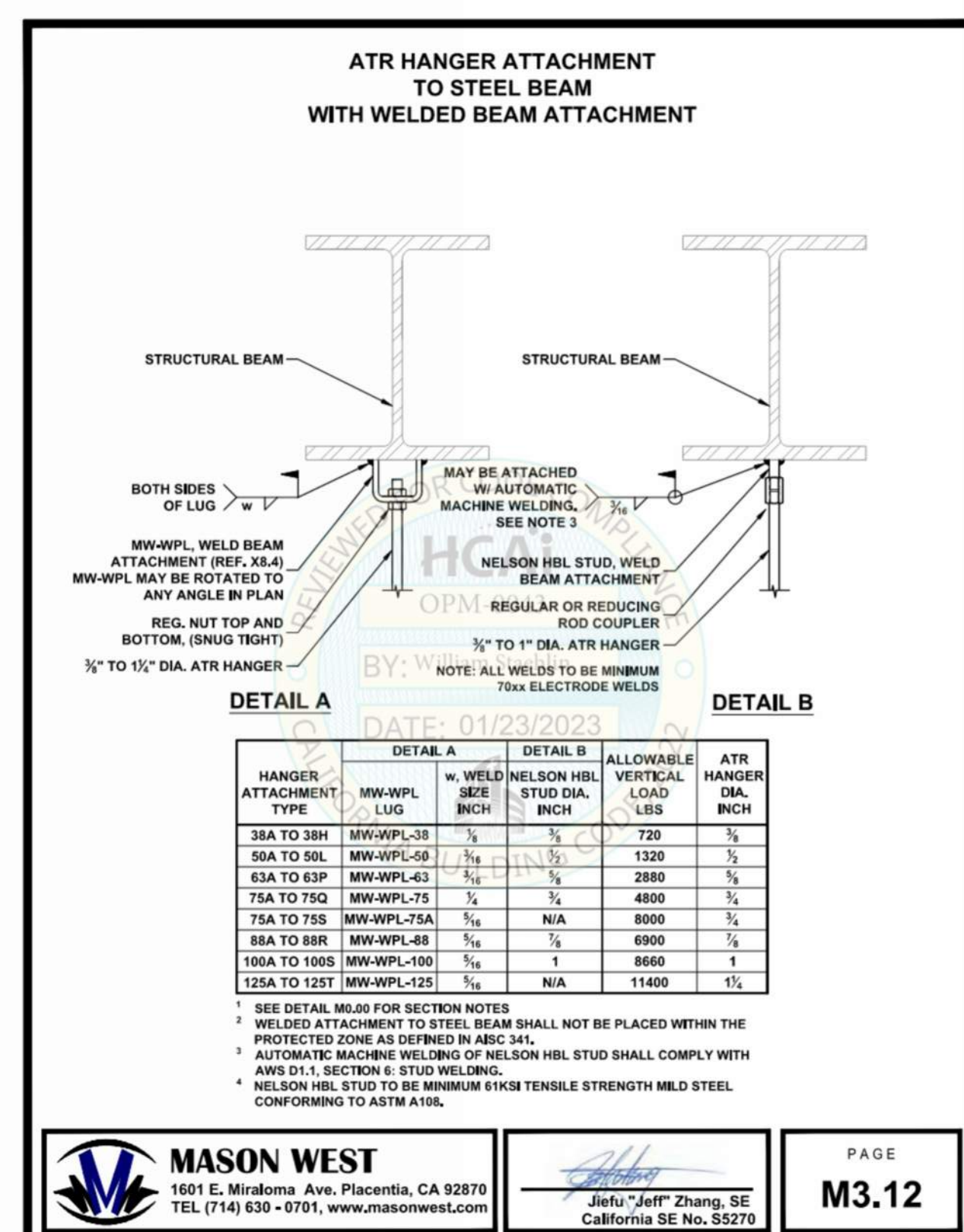
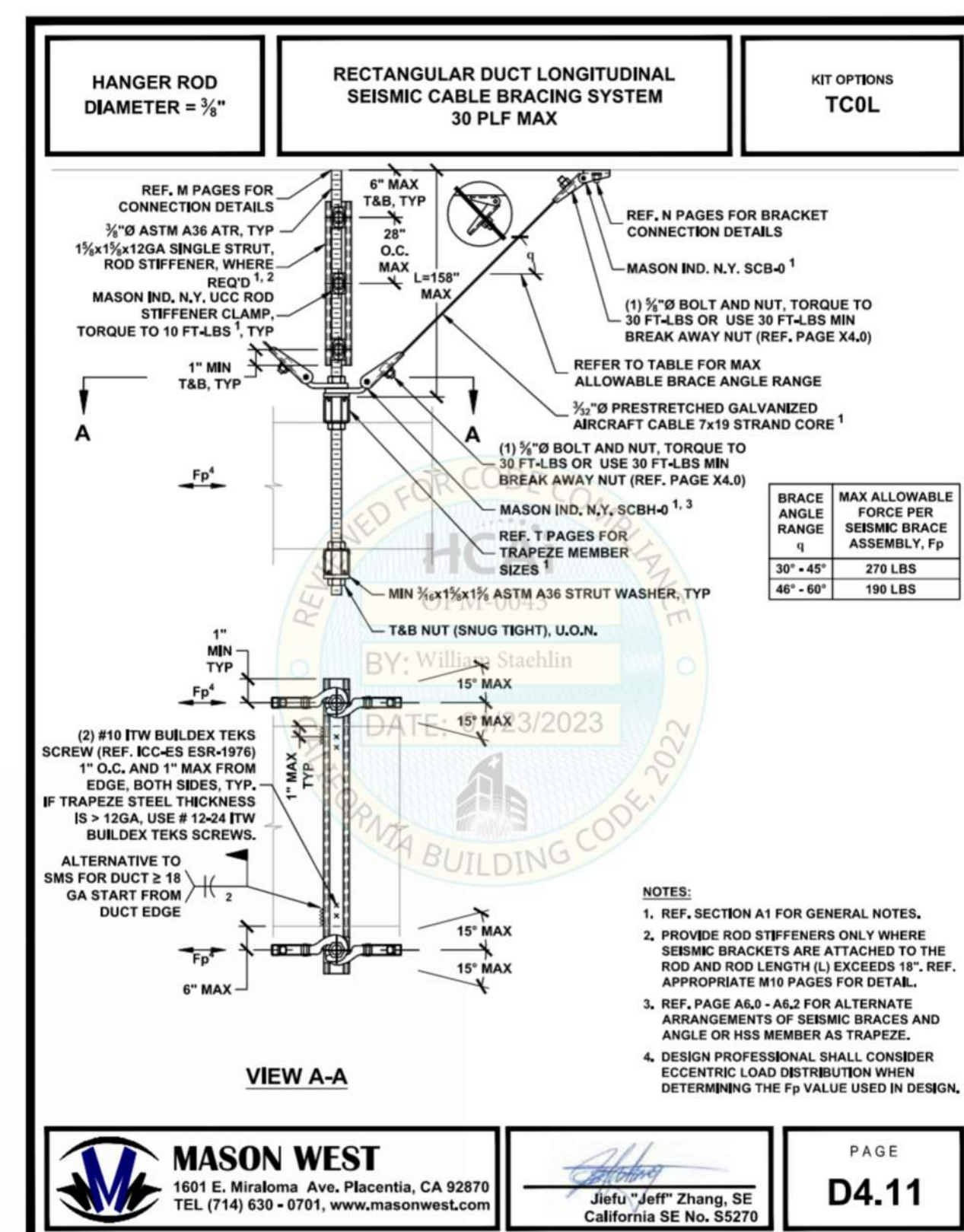
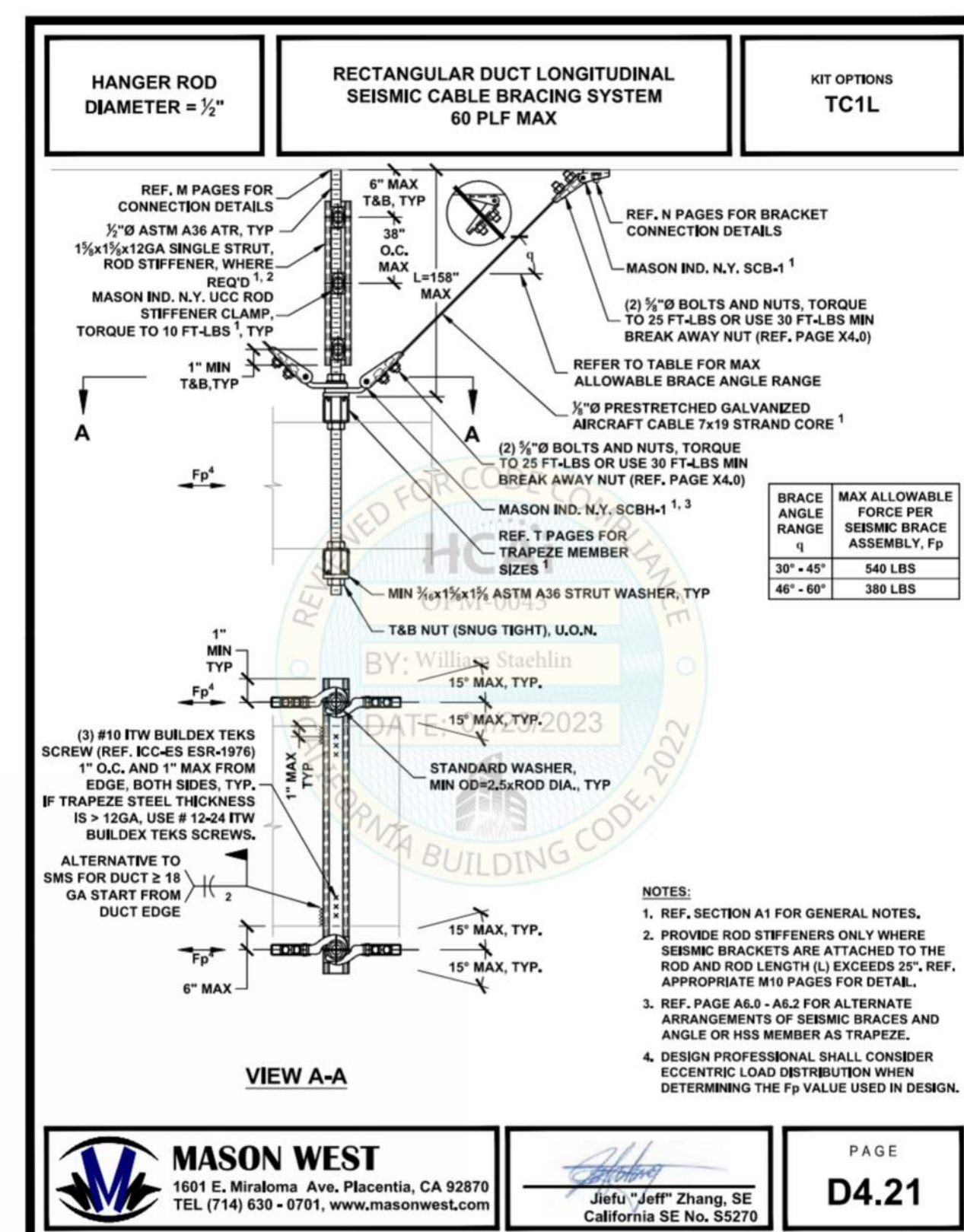
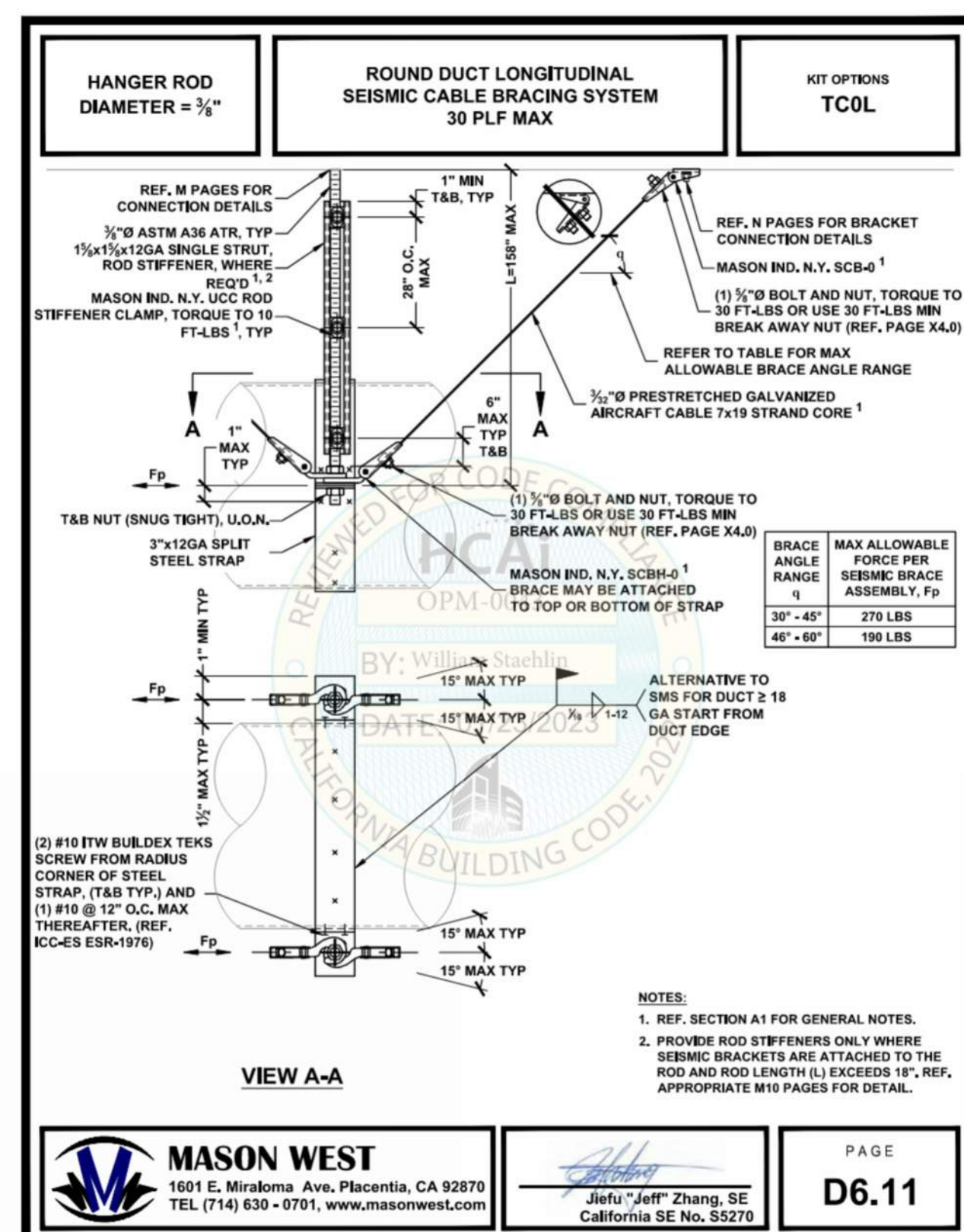
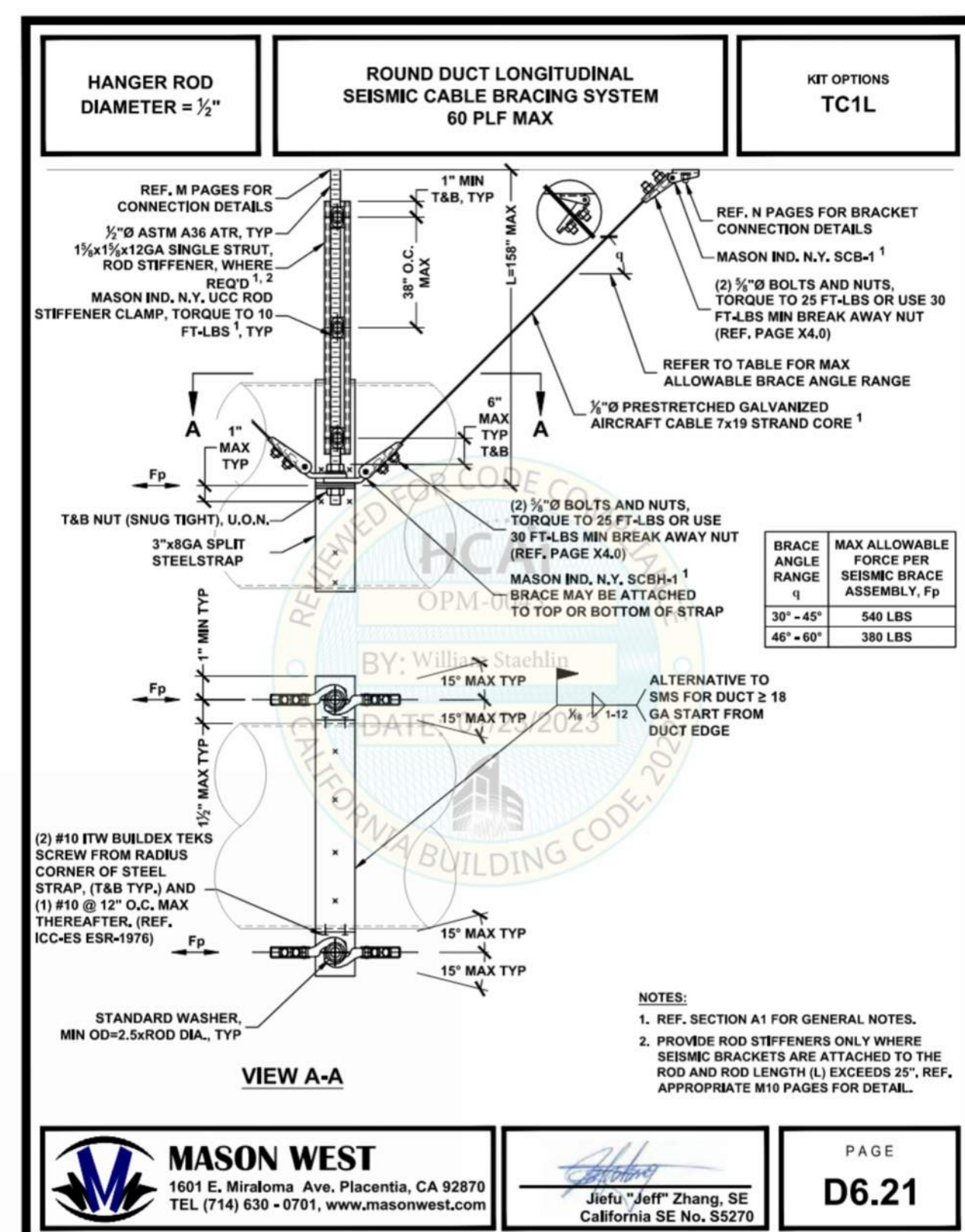
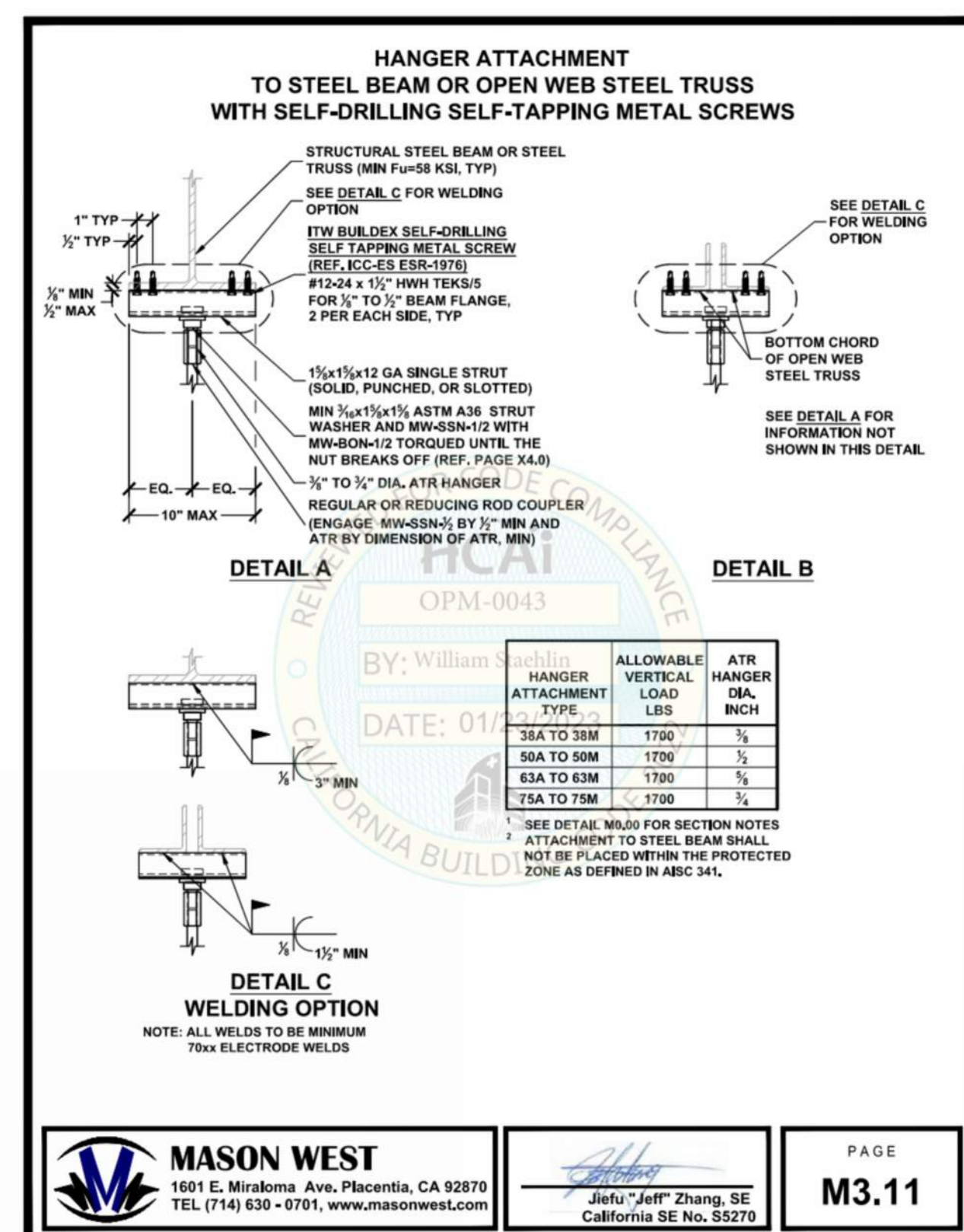
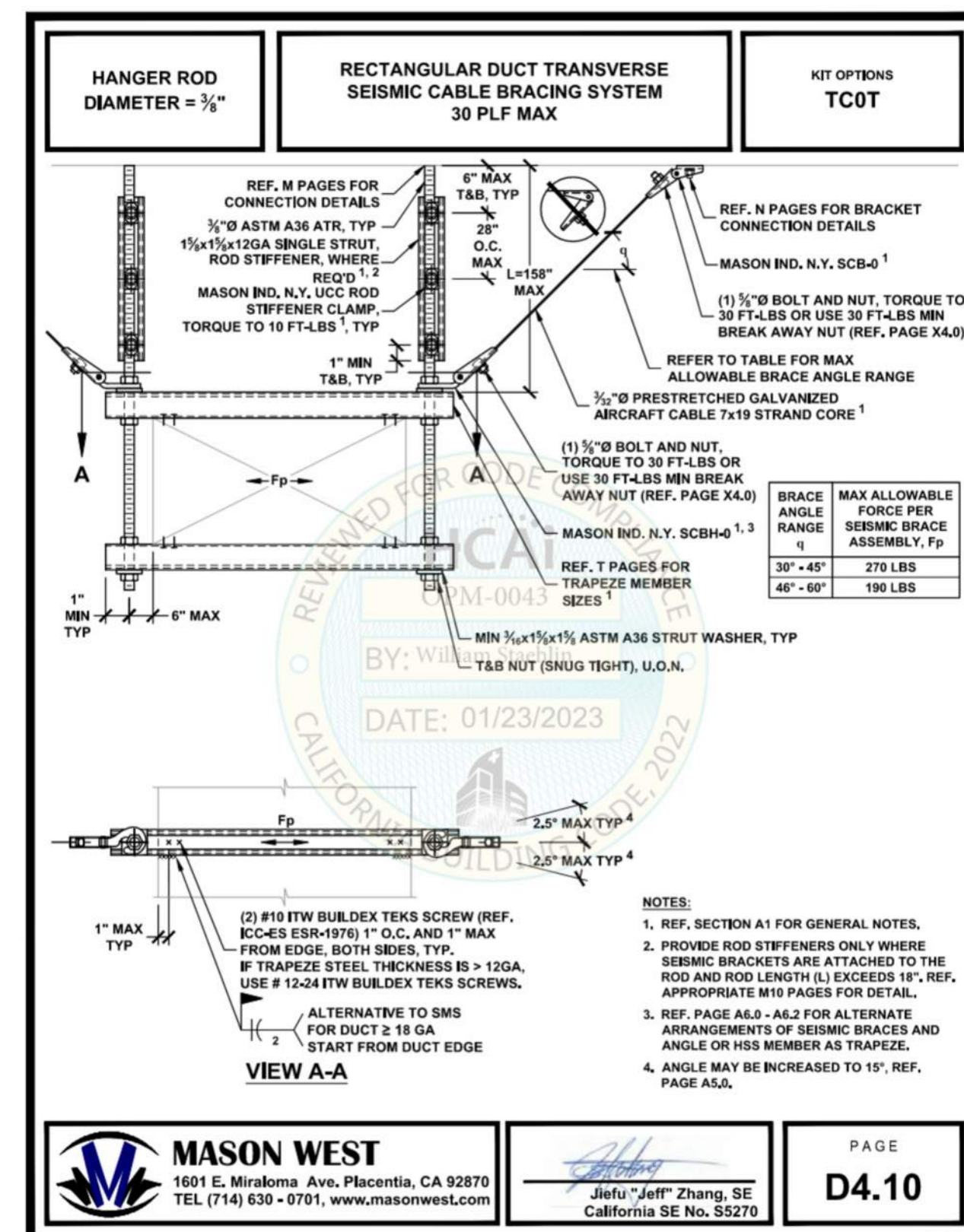
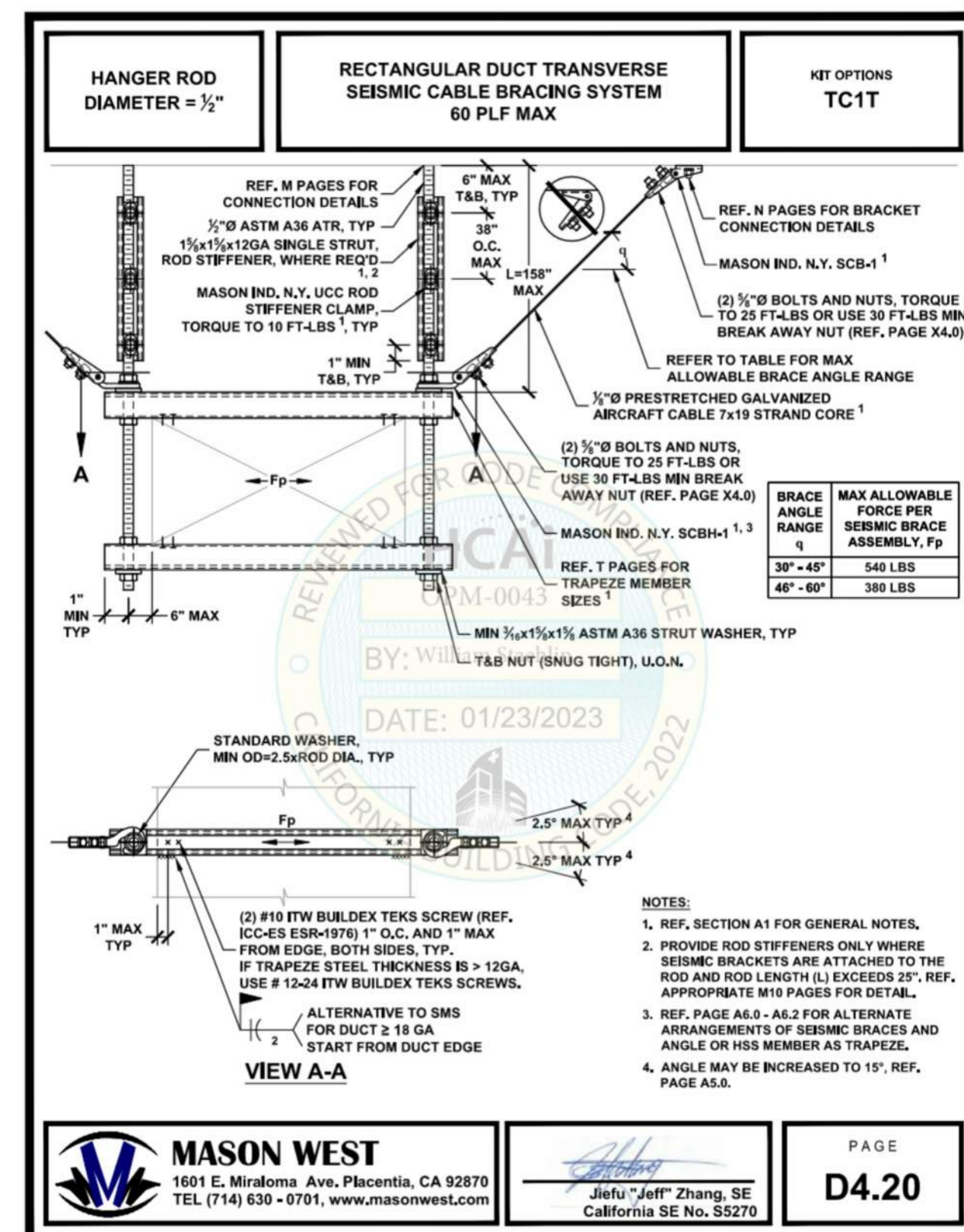
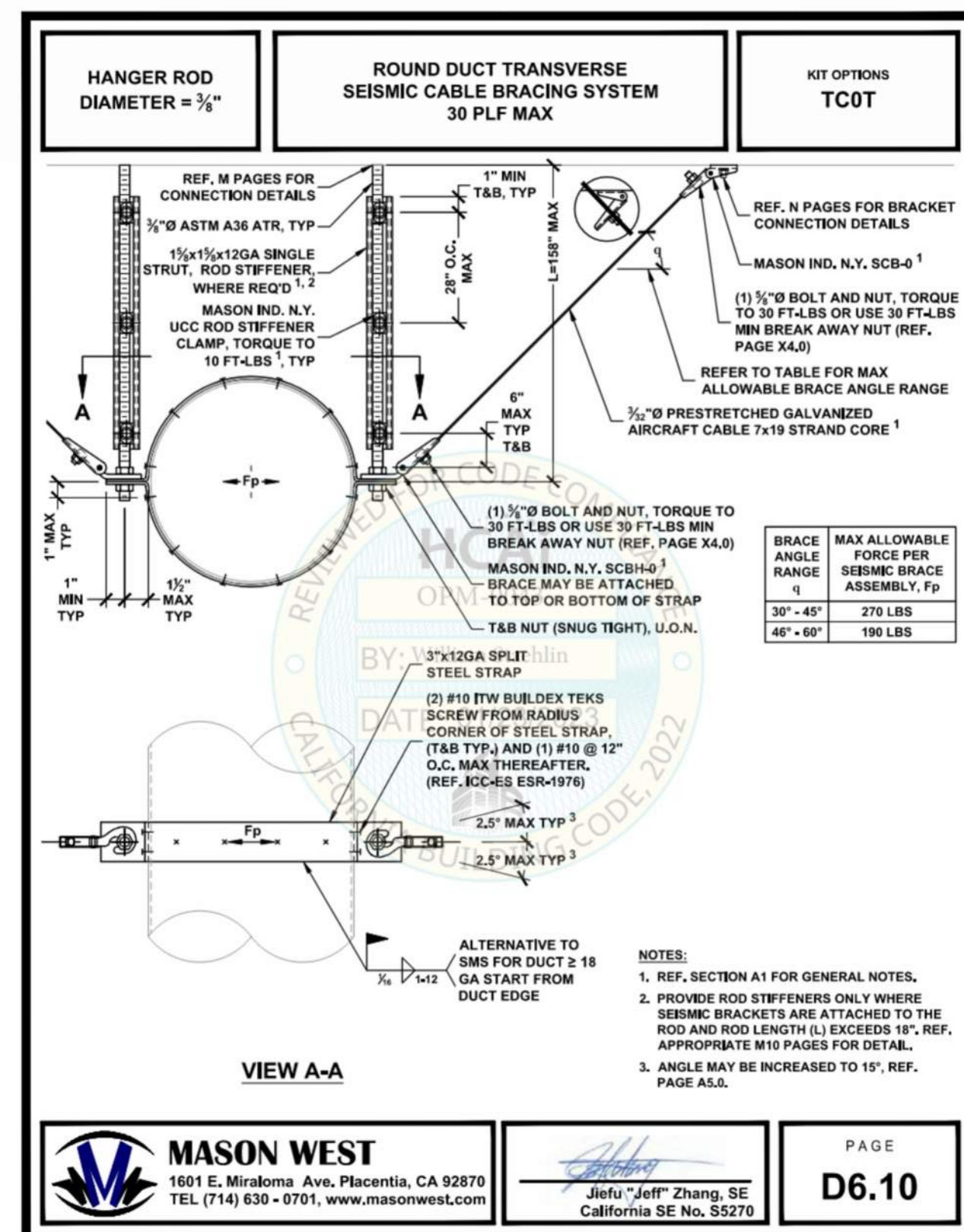
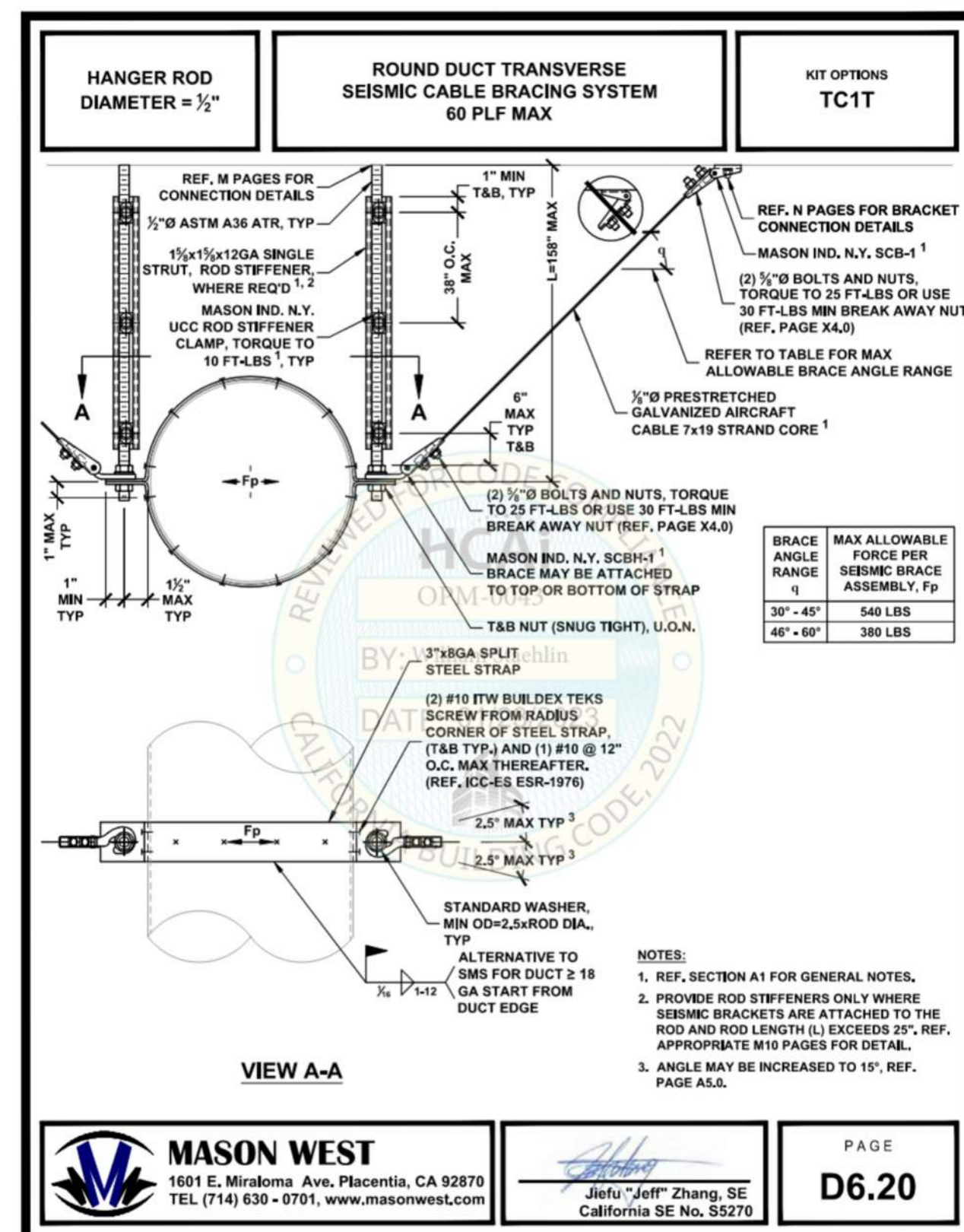
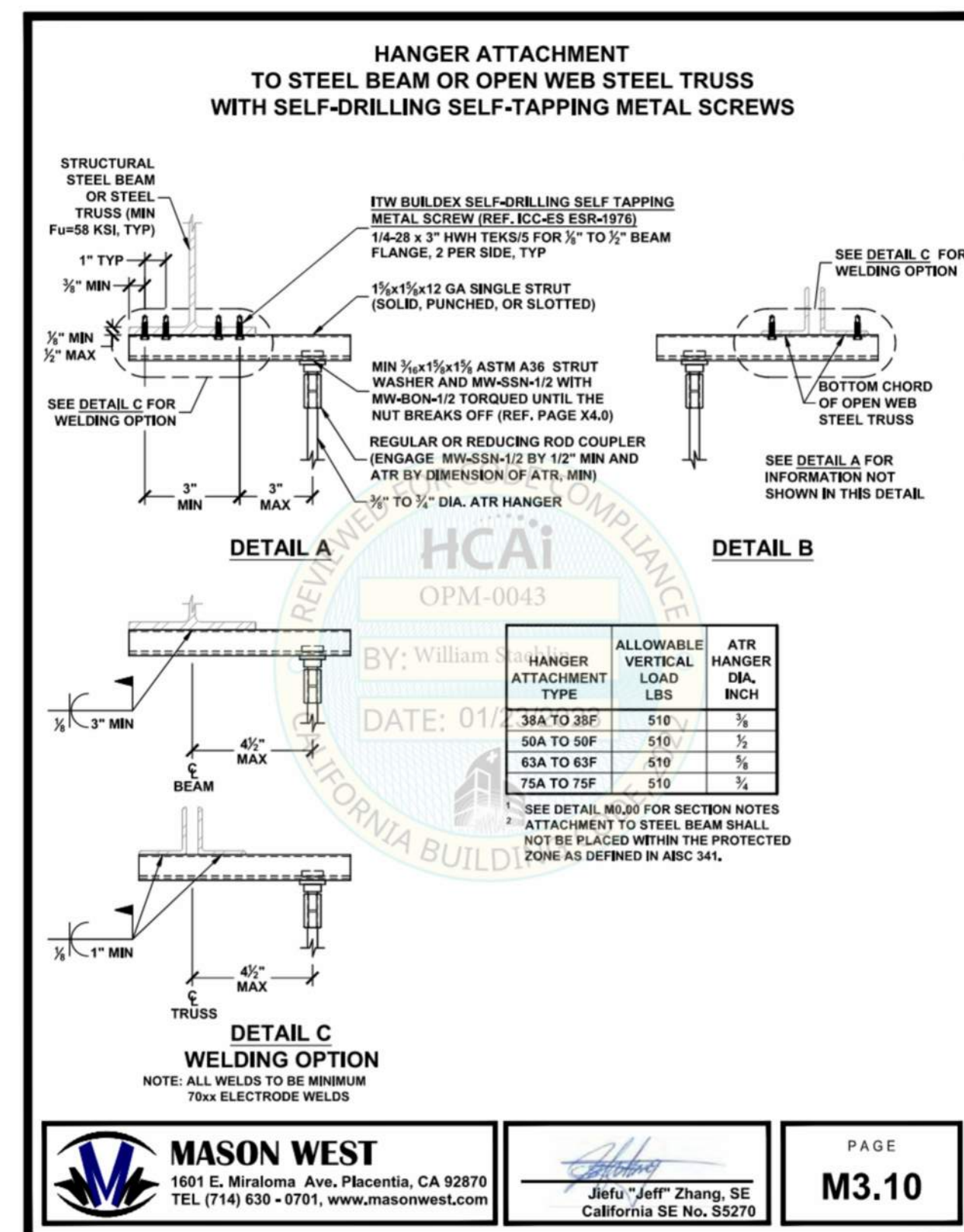
STOCKTON UNIFIED SCHOOL
DISTRICT

REVISIONS		
No.	Description	Date
1	Revision 1	Date 1

PROJECT No.: 2023-014.00


CONSTRUCTION DOCUMENTS

**MECHANICAL
DETAILS**





 DATE SIGNED: 06/06/2024



RANCHO CORDOVA, CALIFORNIA

RL	232073.00
PM - DESIGN TEAM	PROJECT NO.



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

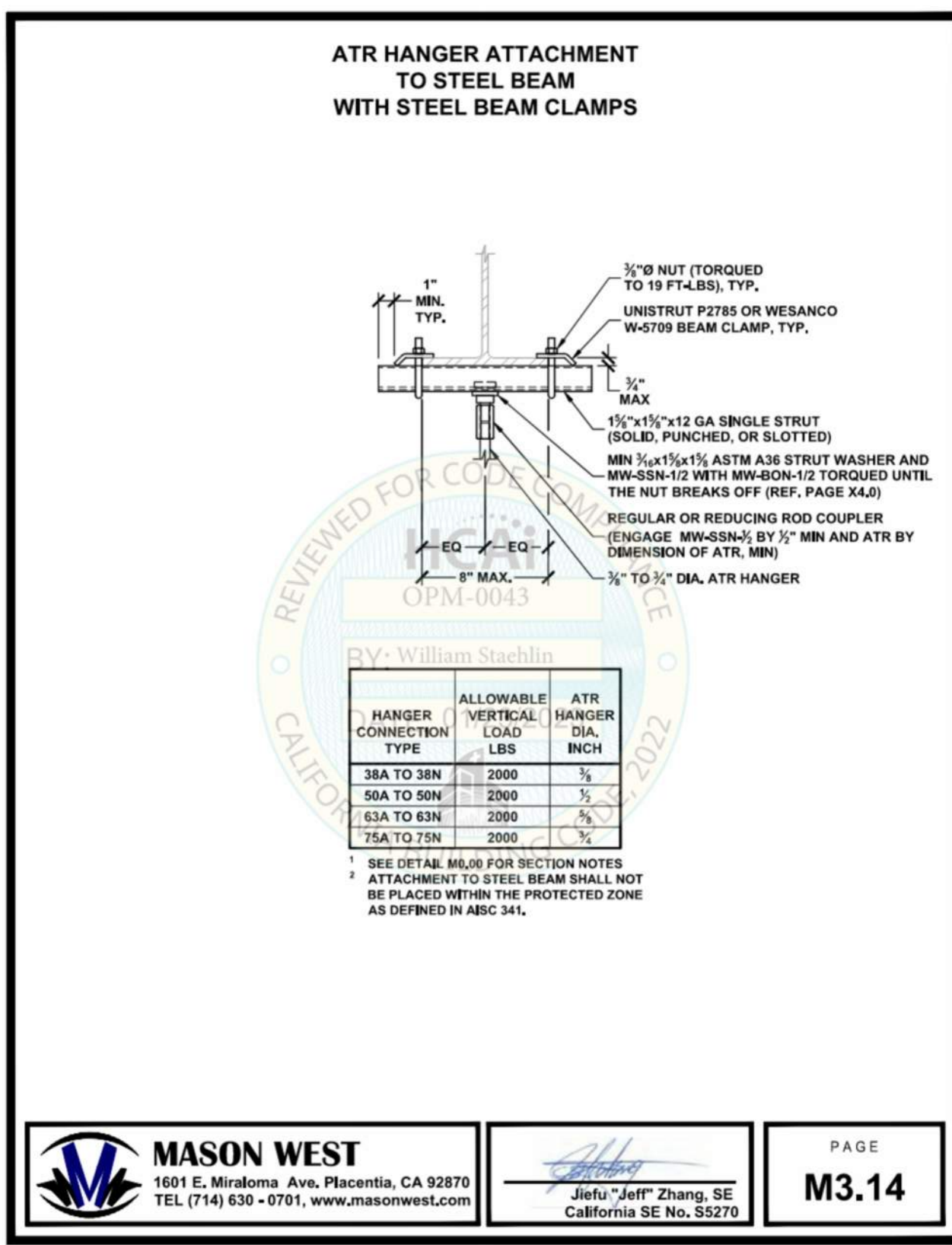
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PROJECT No.: 2023-014.00

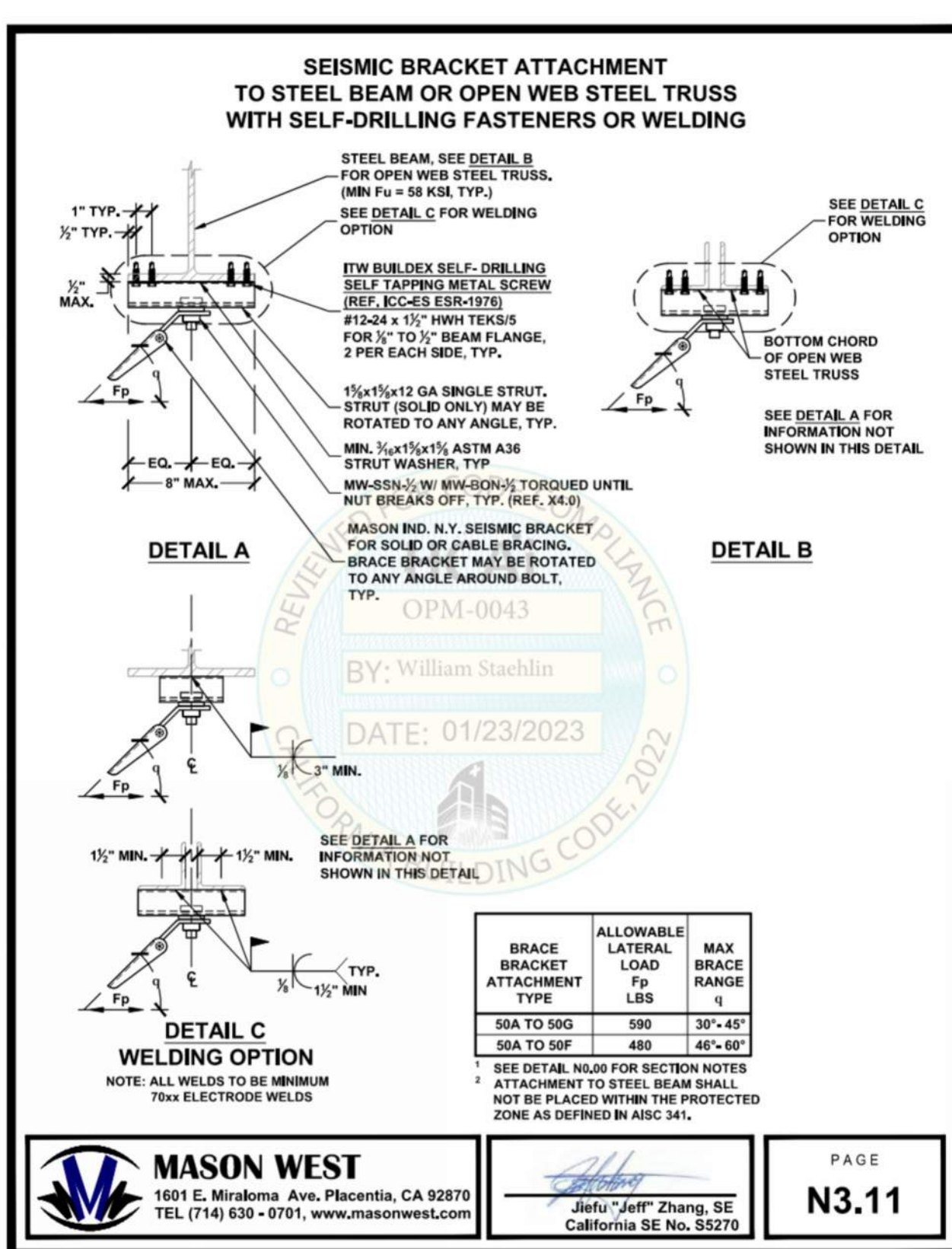
CONSTRUCTION DOCUMENTS:

MECHANICAL DETAILS

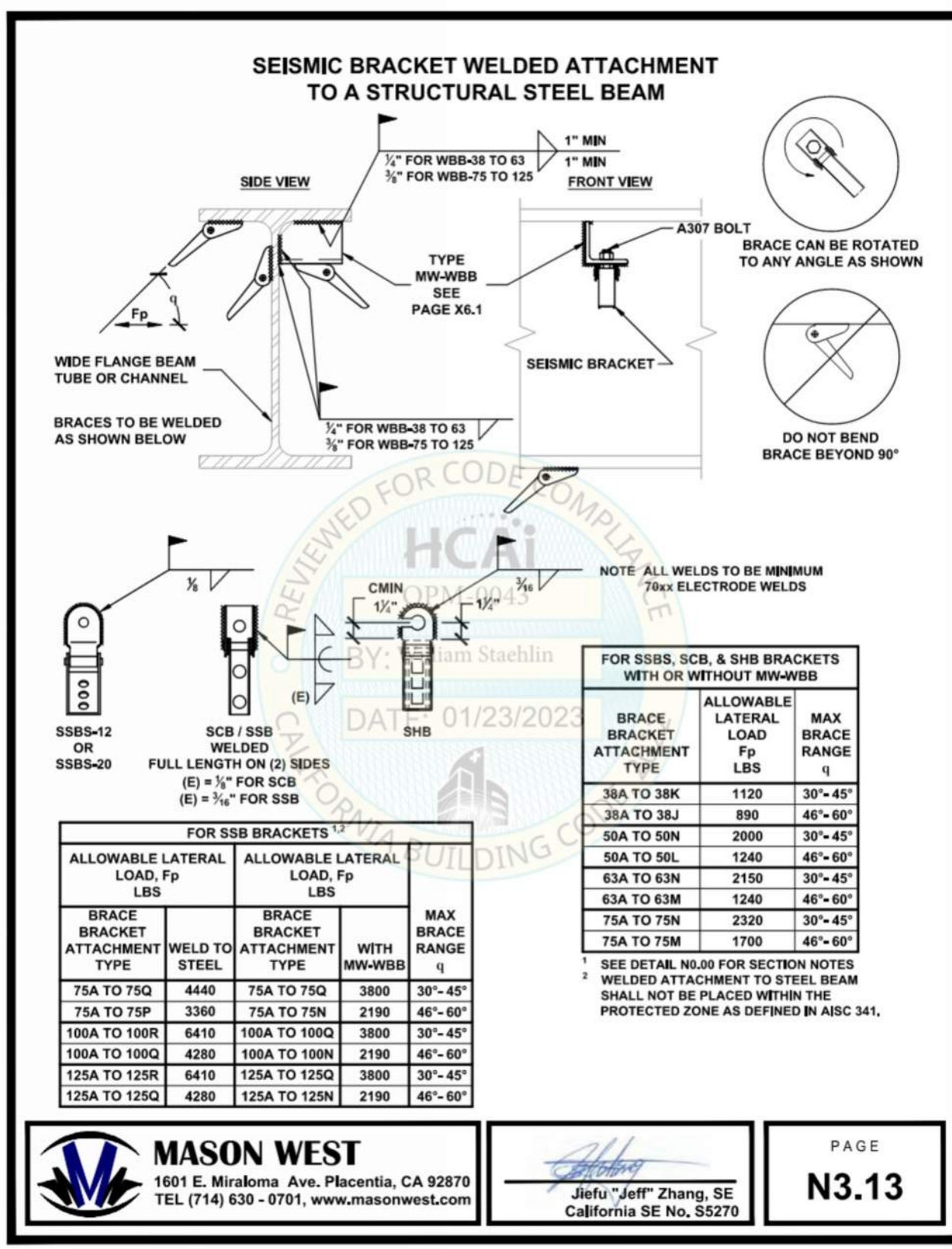
M5.4



1/23/2023 OPM-0043: Reviewed for Code Compliance by William Staehlin 555 of 792

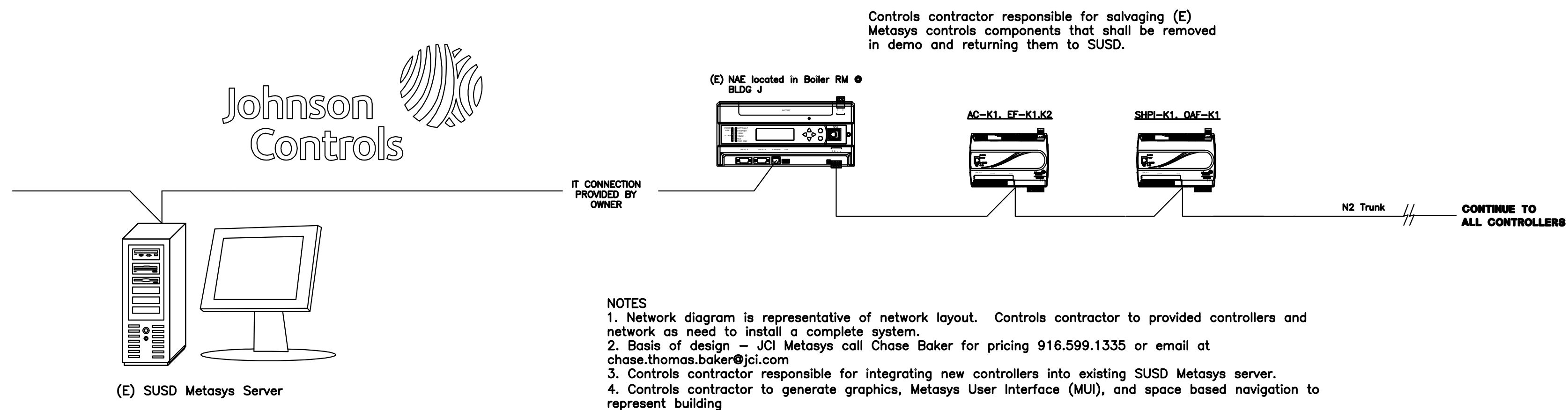


1/23/2023 OPM-0043: Reviewed for Code Compliance by William Staehlin 679 of 792



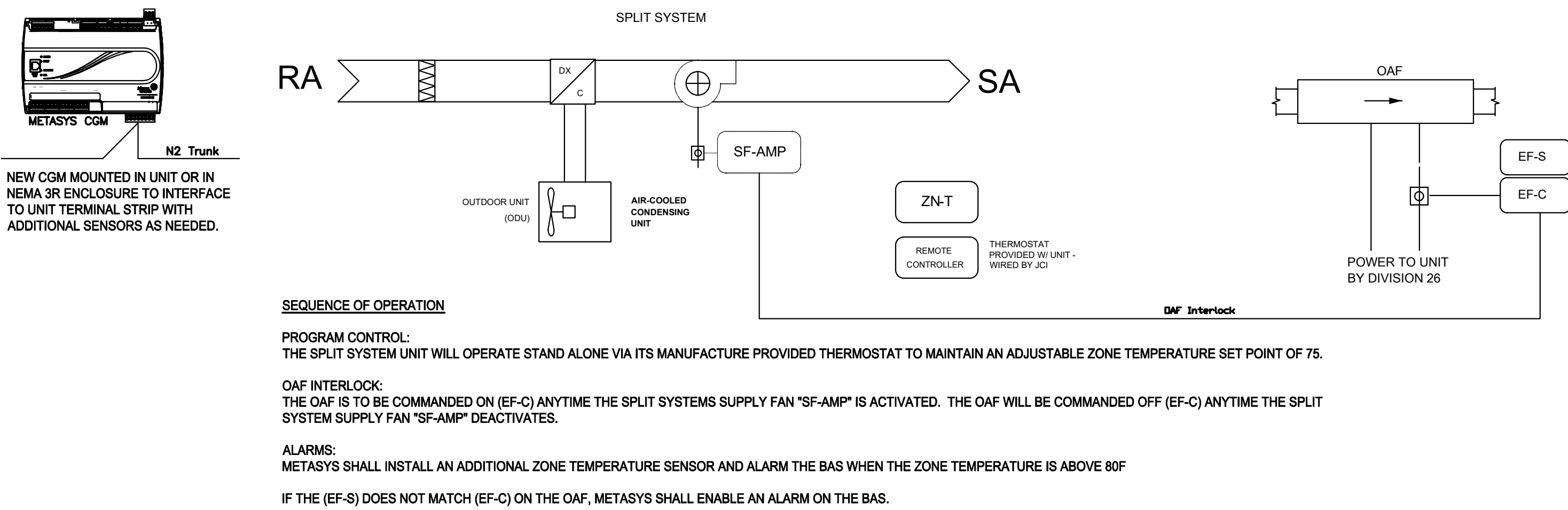
1/23/2023 OPM-0043: Reviewed for Code Compliance by William Staehlin 681 of 792

QC	
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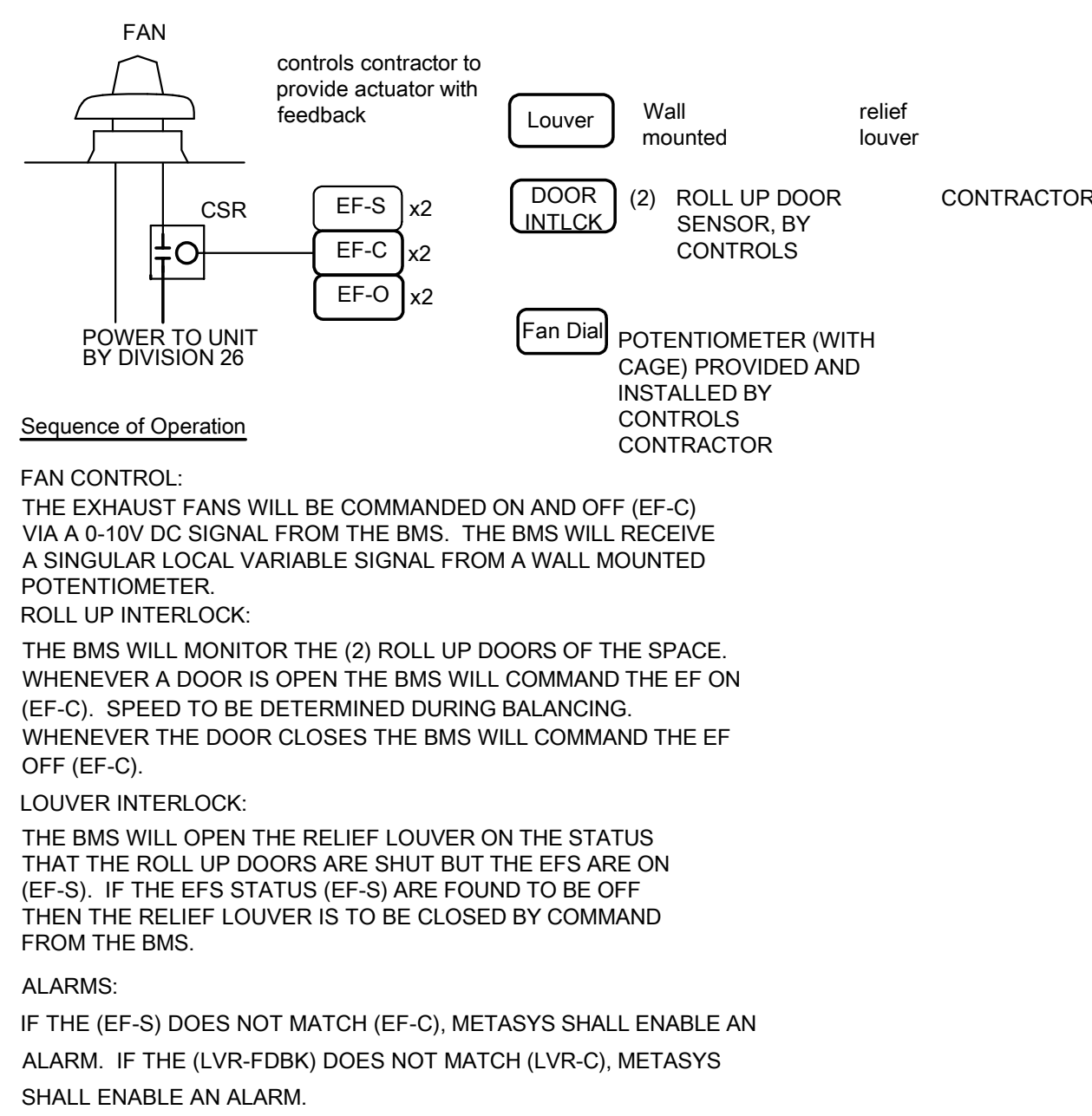
NETWORK RISER DIAGRAM- (SUSD) STAGG HS

SCALE : NONE



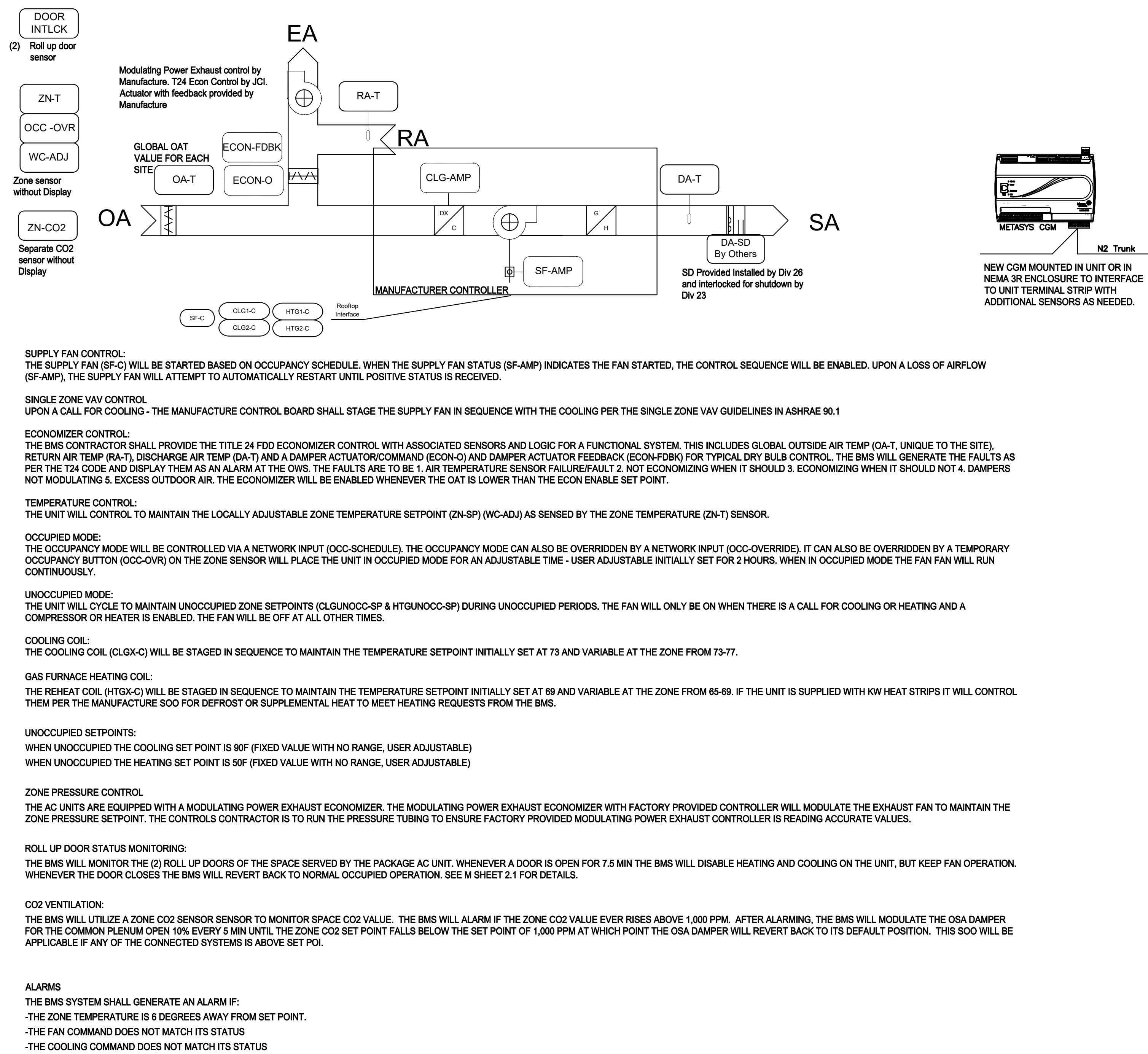
SPLIT SYSTEM (SHPI-K1) & OAF CONTROL (OAF-K1)

SCALE : NONE



ROOFTOP 3 PHASE EXHAUST FAN CONTROL (REF-K1, K2)

SCALE : NONE



AC UNIT CONTROL (AC-K1)

SCALE : NONE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122192 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

DSA APP. NO: 02-122192



**3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655**



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

[illegible]

PROJECT No.: 2023-014.0

CONSTRUCTION DOCUMENTS

MECHANICAL CONTROLS

M6.1

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION
Mechanical Systems		
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Staggs HS Ag Shop Renovation	Report Page:	(Page 10 of 13)
	Date Prepared:	2/15/2024

L. DISTRIBUTION (DUCTWORK AND PIPING)			<div> <div> Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems? </div> <div> No </div> </div> <div> <div> Duct leakage testing per CMC Section 603.10.1 required for these systems? </div> <div> Yes </div> </div>	
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.		
14	No	The <u>combined</u> surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17		All ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18		All ductwork is an extension of an existing duct system		
19		Ductwork serving individual dwelling unit		
20		< 25 Ft of new or replacement space conditioning ducts installed		
21	R-8	Duct Insulation R-value		
22				
23				

M. COOLING TOWERS
<i>This section does not apply to this project.</i>

Generated Date/Time:		Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-30211-0224-0872 Report Generated: 2024-02-15 10:29:14

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Mechanical Systems			
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E	
Project Name:	Stagg HS Ag Shop Renovation	Report Page:	(Page 13 of 13)
Project Address:	1621 W. Brookside Road	Date Prepared:	2/15/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Aaron Wintersmish	Documentation Author Signature: 
Company: Capital Engineering Consultants Inc.	Signature Date: 02/15/2024
Address: 11020 Sun Center Dr #100	CEAA HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova CA 95670	Phone: 916-851-3500
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury under the laws of the State of California:	
1. The information provided on this Certificate of Compliance is true and correct.	
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)	
3. I am a duly licensed and performance specifications, materials, components, and manufactured device for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building and made available to the enforcement agency for all applicable building permits. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the Documentation of Compliance submitted to the enforcement agency.	
Responsible Designer Name: Kevin Stillman	Responsible Designer Signature: 
Company: Capital Engineering Consultants, Inc.	Date Signed: 2024-02-15
Address: 11020 Sun Center Dr., Suite 100	License: M 33498
City/State/Zip: Rancho Cordova CA 95670	Phone: 916-851-3500

	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-30211-0224-0872 Report Generated: 2024-02-15 10:29:14

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Stagg HS Ag Shop Renovation

Report Page: (Page 11 of 13)

Date Prepared: 2/15/2024

<p>N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION</p> <p>Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCCI/</p> <p style="text-align: right;">Form/Title</p>	
<p>NRCCI-MCH-01-E - Must be submitted for all buildings</p>	

DECLARATION OF REQUIRED CERTIFICATIONS OF ACCEPTANCE	
<p>Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/</p>	
Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A. Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	AC-K1 15 tons; SHPI K1;
NRCA-MCH-03-A. Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes"; if Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	SHPI K1;
NRCA-MCH-05-A – Air Economizer Controls	AC-K1 15 tons;
NRCA-MCH-07-A Supply Fan Variable Flow Controls	AC-K1 15 tons;
NRCA-MCH-11-A Automatic Demand Shed Controls	AC-K1 15 tons; SHPI K1;
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	AC-K1 15 tons;
NRCA-MCH-18-A Energy Management Control Systems	AC-K1 15 tons; SHPI K1;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
<i>There are no NRCV forms required for this project.</i>

	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-30211-0224-0872 Report Generated: 2024-02-15 10:29:14

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Mechanical Systems			
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E	
Project Name: Stagg HS Ag Shop Renovation	Report Page:	(Page 12 of 13)	
	Date Prepared:	2/15/2024	

Q. MANDATORY MEASURES DOCUMENTATION LOCATION		
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.		
01		02
Compliance with Mandatory Measures documented through MCH	Yes	Plan sheet or construction document location
Mandatory Measures Note Block		M-Sheets

	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-30211-0224-0872 Report Generated: 2024-02-15 10:29:14

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SS ☒ FLS ☒ ACS ☒
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DSA APP. NO: 02-122192



3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

[illegible]

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

T24
DOCUMENTATION

M7.2

QC	
INI	%

PLUMBING GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.
2. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLING PIPING AND ASSOCIATED ITEMS.
3. COORDINATION LOCATION OF PIPING WITH OTHER TRADES ON THIS PROJECT.
4. CONCEAL ALL PIPING IN WALL, FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
5. PROVIDE BALL VALVES ON WATER PIPE BRANCHES TO EQUIPMENT AND PLUMBING FIXTURES. PROVIDE ACCESS PANELS WHEN LOCATED IN FURRED SPACES OR ABOVE NON-REMOVABLE CEILINGS. ALL VALVES SHALL BE FULL LINE SIZE.
6. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
7. PROVIDE GAS SHUT-OFF VALVE, UNION AND DIRT LEG AT EACH GAS CONNECTION TO MECHANICAL EQUIPMENT.
8. PRIOR TO ANY SOLENOID VALVE, QUICK CLOSING VALVE, ETC. PROVIDE AND INSTALL SHOCK ABSORBER OF REQUIRED SIZE.
10. OFFSET VENTS THRU ROOF 10 FEET MINIMUM FROM AIR INTAKES AND 4 FEET FROM OUTSIDE WALLS.
11. CONDENSATE DRAIN LINE CONNECTIONS TO MECHANICAL UNITS SHALL INCLUDE MINIMUM 4" DEEP "T" TRAP AND CLEANOUTS AT ALL OFFSETS.
12. ALL MECHANICAL UNITS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE "M" SHEETS.
13. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
14. FIELD VERIFY EXACT SIZES, LOCATIONS AND ELEVATIONS OF ALL PIPING CONNECTIONS, OTHER WORK, ETC., PRIOR TO TRENCHING OR INSTALLING OF ANY NEW WORK.
15. ALL FLOOR MOUNTED FIXTURES, CLEAN OUTS & FLOOR DRAINS TO BE FLUSH MOUNTED WITH 2% MAX. SLOPE.
16. ALL FLOOR DRAINS LOCATED IN CERAMIC TILE SHALL HAVE A SQUARE TOP.
17. CONCRETE ANCHORS SHALL BE PER B/S:10 EXPANSION ANCHORS, HILTI, KWIK BOLT KB T22 3/8" DIA. WITH 2-1/2" MIN. EMBEDMENT. ANCHORS SHALL BE TESTED PER IT 26-6. INTERPRETATIVE REGULATION FOR EXPANSION ANCHORS IN HARDENED CONCRETE.
18. PROVIDE AND INSTALL 20 GAGE GALV. SHT. MTL. OVERFLOW PAN UNDER ENTIRE UNIT AND COIL. PAN SHALL EXTEND A MIN. OF 6" PAST ALL SIDES OF UNIT AND COIL. SIDES SHALL EXTEND UP TWO INCHES AND SHALL HAVE EDGES TURNED UNDER AND ALL SEAMS SHALL BE CONTINUOUSLY WELDED. PROVIDE 3/4" DRAIN OUTLET IN SIDE OF PAN. SLOPE PAN BACK TO OUTLET. NOTE: SECONDARY DRAIN FROM FURNACE COOLING COIL SHALL DISCHARGE TO OVERFLOW DRAIN PAN.

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:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE 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 OR HAS A CENTER OF GRAVITY 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 COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 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 FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS 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 SYSTEMS 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 SYSTEMS. 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 SYSTEMS (E):

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 HCAI (OSHPD) PREAPPROVAL (OPM #) # 0043-13.

CALIFORNIA ENERGY CODE ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
[HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE](https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance)
 THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

OPM DETAIL REFERENCES FOR OPTION 2 SCHEDULE

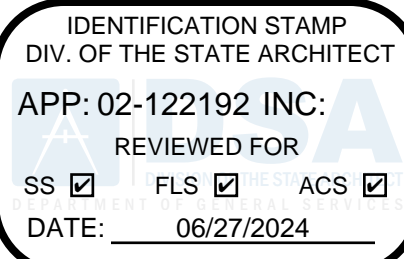
1. PROVIDE SUPPORT AND SEISMIC BRACING PER OPM #0043-13 REFER TO P5.2, AND P5.3 FOR OPM DETAILS C2.10, C2.11, M3.10, M3.11, M3.12, M3.14, N3.11, N3.13, P1.10, P1.11, P1.12, M4.10, N4.10, N4.13.

SHEET LIST

- P0.1 PLUMBING LEGEND & NOTES
- P0.2 PLUMBING FIXTURE SPEC. & CONN. SCHEDULE
- P2.0 PLUMBING DEMO FLOOR PLAN
- P2.1 PLUMBING FLOOR PLAN
- P3.1 PLUMBING ROOF PLAN
- P5.1 PLUMBING DETAILS
- P5.2 PLUMBING DETAILS
- P5.3 PLUMBING DETAILS

PLUMBING LEGEND cont'd

SYMBOL	ABBREVIATION	DESCRIPTION
	ABC	ABOVE CEILING
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AF, BF	ABOVE FLOOR, BELOW FLOOR
	AD, AP	ACCESS DOOR, ACCESS PANEL
	AD	AREA DRAIN
	BV	BALL VALVE
		BRANCH - TOP CONNECTION
		BRANCH - BOTTOM CONNECTION
		BRANCH - SIDE CONNECTION
	BFV	BUTTERFLY VALVE
	CBV	CALIBRATED BALANCE VALVE
	COP	CAP ON END OF PIPE
	CKV	CHECK VALVE
	CP	CIRCULATING PUMP
	CW	COLD WATER
	CWD	COLD WATER DROP
	CWR	COLD WATER RISE
	A	COMPRESSED AIR
	CR	CONCENTRIC REDUCER
	CD	CONDENSATE DRAIN LINE
	CO	CLEANOUT
		DEGREES FAHRENHEIT
	DIA.	DIAMETER, SQUARE (FEET)
	ER	ECCENTRIC REDUCER
	(E)	EXISTING TO BE REMOVED
	FF=	FINISHED FLOOR ELEVATION
	FU	FIXTURE UNIT
	FC	FLEXIBLE CONNECTOR
	CO	CLEANOUT
	FD	FLOOR DRAIN
	FS	FLOOR SINK
		FLOW IN DIRECTION OF ARROW
	FLV	FLOW LIMITING VALVE
	FV, FT (FA), (TA) (FB), (TB)	FLUSH VALVE, FLUSH TANK
		FROM ABOVE, TO ABOVE
		FROM BELOW, TO BELOW
	GCK	GAGE COCK
	GSKC, PC	GAS COCK, PLUG COCK
	GV	GATE VALVE
	GPM	GALLONS PER MINUTE
	GLV	GLOBE VALVE
	CO	CLEANOUT
	HD	HOPPER DRAIN, HUB DRAIN
	HB	HOSE BIBB PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER PIPING RISE
	HWD	HOT WATER PIPING DROP
	HWRET	HOT WATER RETURN
	HWRET(R)	HOT WATER RETURN RISE
	HWRET(D)	HOT WATER RETURN DROP
	() HW	HOT WATER (TEMP. °F)
	() HWR	HOT WATER RETURN (TEMP. °F)
	(N), (E)	NEW, EXISTING
	(NTS)	NOT TO SCALE
	AN	PIPE ANCHOR
		PIPE GUIDE
		PIPE IN SLEEVE
		PITCH DOWN IN DIRECTION OF FLOW
	POC	POINT OF CONNECTION
	P & TRV	PRESSURE & TEMPERATURE RELIEF VALVE PIPING
	PRV	PRESSURE REDUCING VALVE
	PD	PUMP DISCHARGE LINE
	RWL	RAINWATER LEADER
	WH	RECESSED BOX HOSE BIBB OR WALL HYDRANT
	RV or P&TRV	RELIEF VALVE OR PRESSURE & TEMPERATURE RELIEF VALVE
		RETURN
	RE, IE (R), (D)	RIM ELEVATION, INVERT ELEVATION
		RISE, DROP
		RISER DOWN (ELBOW)
		RISER UP (ELBOW)
	R, D	RISE OR DROP
	RD	ROOF DRAIN
	S, W	SOIL, WASTE OR SANITARY SEWER ABOVE FLOOR
	S, W	SOIL, WASTE OR SANITARY SEWER BELOW FLOOR
	TP	TRAP PRIMER
	TP	TRAP PRIMER PIPING
	TYP	TYPICAL
	UN	UNION OR FLANGE
	VB	VALVE IN VALVE BOX (VALVE TYPE SYMBOL AS REQUIRED FOR VALVE TYPE USED)
	V	VENT PIPING
	V, VR, VTR	VENT, VENT RISER, VENT THRU ROOF
	WCO	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR



DSA APP. NO: 02-122192



3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655



DATE SIGNED: 06/06/2024



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

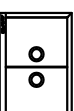






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PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

PLUMBING LEGEND & NOTES

P0.1

PLUMBING FIXTURE SPECIFICATION & CONNECTION SCHEDULE													
ADA	SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE MANUFACTURER AND MODEL No.	TRIM MANUFACTURER AND MODEL No.	REMARKS	VENT	WASTE		COLD WATER		HOT WATER	
								BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	S-1	SINK FREE STANDING DEEP BOWL H & CW AG SHOP	"ELKAY" MODEL RNSF82362, 47-1/4" x 29-3/4" x 42-1/4" SINK DIMENSIONS, BOWL 1 & 2 AT 18" x 24" x 12-3/4" EACH 16 GAUGE STAINLESS STEEL, TWO COMPARTMENT WITH LEDGE BACK. S&W-RIM, PROVIDE FAUCET HOLES ON 8" CENTERS. PROVIDE REAR DRAIN LOCATION FOR BOTH COMPARTMENTS. PROVIDE EACH BOWL WITH INDIVIDUAL FAUCETS, (2) PLACES.	(2) "CHICAGO" ECAST MODEL 1100-E35-317ABCP (VVAVP), WITH INDEXED WRIST BLADE HANDLES, 8" LONG SWIVEL SPOUT AND 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR.	"ELKAY" MODEL LK18, OFFSET CRUMB CUP STRAINER WITH REMOVABLE BASKET AND P-TRAP FOR EACH COMPARTMENT. INSTALL P-TRAP FLUSH TO WALL.	2-COMP SINK, MODIFY TO PROVIDE FAUCET HOLE(S) CENTERED ABOVE EACH COMPARTMENT.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	DF-1	DRINKING FOUNTAIN WALL MOUNTED STD/ACCESSIBLE DUAL HEIGHT W/BOTTLE FILLER	"ELKAY" MODEL 1119-1920, STAINLESS STEEL DUAL HEIGHT, WALL MOUNTED STAINLESS STEEL BACK PANEL, WITH BOTTLE FILLER	INTEGRAL	WITH P-TRAP	PROVIDE MANUFACTURER'S INTERNAL SUPPORT SYSTEM. WHERE INSTALLED ON CONCRETE OR CMU WALL, PROVIDE TWO MOUNTING PLATES AND INSTALL WITH ONE PLATE ON EACH SIDE OF WALL SET AT HEIGHT INDICATED ON ARCH DRAWINGS	1-1/2"	2"	1-1/2"	3/4"	1/2"	-	-
	FS	FLOOR SINK	MECHANICAL SPACES - ZURN MODEL ZN-1901-KC-2, OR EQUAL, 12 INCH x 12 INCH x 8 INCH DEEP, A.R.E. INTERIOR WITH NICKEL BRONZE RIM, HALF GRATE AND DOME STRAINER. OTHER APPROVED EQUAL MANUFACTURERS INCLUDE, JAY R. SMITH, WATTS & MIFAB.	PROVIDE SEEPAGE PAN AND CLAMPING COLLAR.		COORDINATE & PROVIDE GRATES	2" 3"	2" 3"	2" 3"	- -	- -	- -	- -
	HB	HOSE BIBB	INTERIOR WALL MOUNTED - ACORN MODEL 8121CP-LF	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR	-	-	-	3/4"	3/4"	-	-
	TP	TRAP PRIMER	MIFAB "M-500" SERIES, PRECISION PLUMBING PRODUCTS "PRIME-RITE" OR SIOUX CHIEF MANUFACTURING CO. "PRIME PERFECT" PRECISION PLUMBING PRODUCTS "PR-500" (1 DRAIN), "PR-500-DU-4/DU-U" (2 DRAINS), "P1-500-DU-4/DU-U" (3-4 DRAINS)				-	-	-	1/2"	1/2"	-	-
	HR	HOSE REEL	HOSE REELS: LINCOLN MODEL 83754 RETRACTABLE AIR HOSE 1/2" REEL W/ 50 FT OF HOSE, GROVER OR EQUAL PROVIDE HEAVY-DUTY TYPE WITH DELIVERY HOSE, UNIVERSAL SWIVEL, BALL STOP, SHUT-OFF VALVE, CONTROL VALVE AND FILTER AS REQUIRED. CONNECT SERVICES TO REELS WITH BALL VALVE. REEL WEIGHT = 37 LBS, 1/2" X 50' HOSE WEIGHT = 9 LBS, TOTAL 46 LBS			AIR HOSE VALVE: LINCOLN 815 COUPLER AND 11659 NIPPLE, GROVER, OR EQUAL WITH BALL VALVE ON INLET. REFER TO DRAWING DETAILS FOR ADDITIONAL REQUIREMENTS. PROVIDE WILKERSON MODEL CB8-04-000 AIR PRESSURE REGULATOR, OR EQUAL.							
	AO	AIR OUTLET AG SHOP	"CHICAGO" DECK MOUNTED MODEL 980-VR909CAGCP, WALL MOUNTED 986-937CHAGVCP VANDAL RESISTANT TURRET WITH SINGLE BALL VALVE	"CHICAGO" MODEL 980-WS909AGVCP, WITH TURRET AND SERRATED NOZZLE.									

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122192 INC:
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SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

Professional Engineer Seal for Charles Eric Dandy, State of California, License No. C32876, expires 03/31/25.

CAPITAL
engineering
RANCHO CORDOVA, CALIFORNIA
RL 232073.00
PM - DESIGN TEAM PROJECT NO.

55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

REVISIONS

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

P0.2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122192 INC:
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SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024



STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

REVISIONS

[illegible]

CONSTRUCTION DOCUMENTS

P2.0



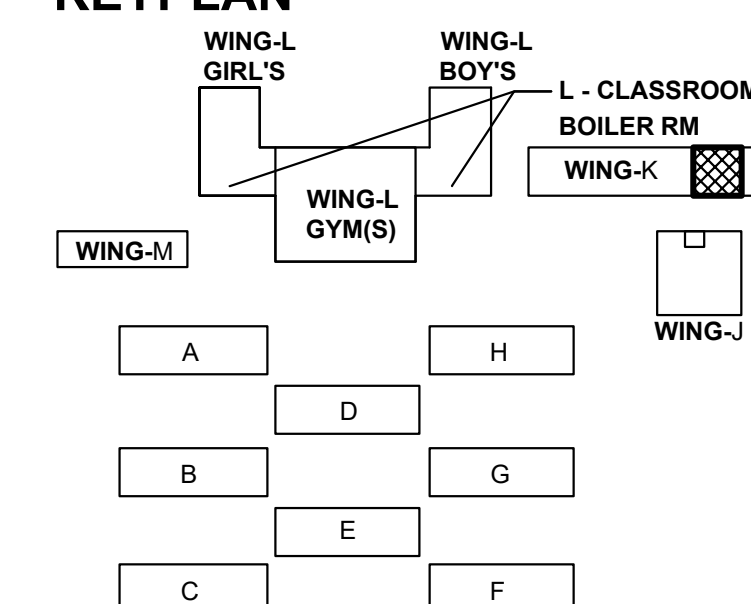
1. WHERE PIPING IS BEING REMOVED, REMOVE AND PATCH SURFACES WHERE SUPPORTS ARE REMOVED.

SHEET NOTES:

- ① CAP GAS AS NOTED. REMOVE GAS PIPING DOWNSTREAM OF CAP TO THE EQUIPMENT. REMOVE PIPE SUPPORTS AND PATCH OPENINGS TO MATCH SURROUNDING SURFACES.
- ② REMOVE (E) 2 COMP SINK AND DRINKING FOUNTAIN (DF). CAP PIPING EXPOSED IN SPACE AND PREPARE PIPING FOR RECONNECTION TO NEW SINK AND DF.
- ③ REMOVE (E) WASH FOUNTAIN. CAP PIPING TO BEHIND ARCHITECTURAL SURFACES. CAP WATER PIPING AT BRANCH TAKEOFF.
- ④ REMOVE CLEAN OUT AND PREPARE FOR NEW CLEAN OUT IN SIMILAR LOCATION. SEE 1/2 P.1.

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

1
P2.0



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DATE: 06/27/2024



capital
engineering
RANCHO CORDOVA, CALIFORNIA
RL 232073.00
PM - DESIGN TEAM PROJECT NO.

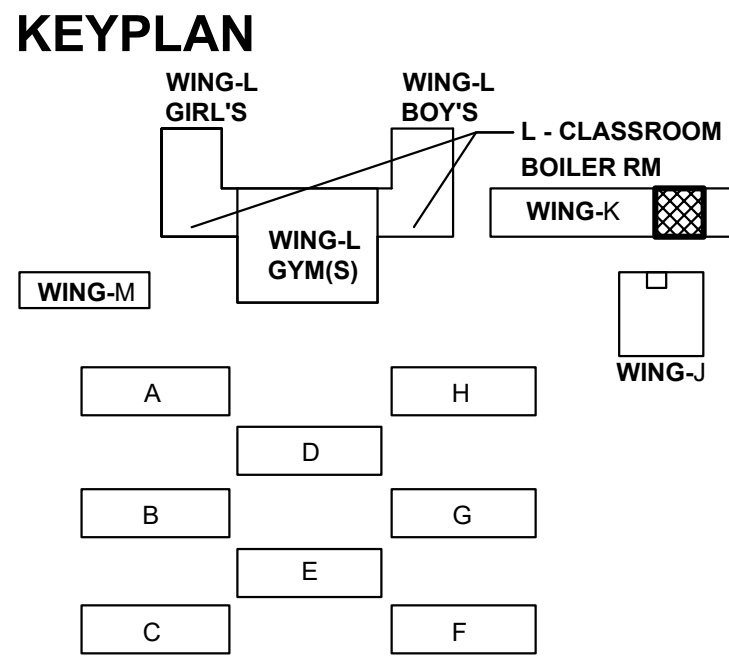


REVISIONS

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CONSTRUCTION DOCUMENTS

P2.1



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SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

DATE SIGNED: 06/06/2024

capital
engineering

RANCHO CORDOVA, CALIFORNIA

RL	232073.00
PM - DESIGN TEAM	PROJECT NO.



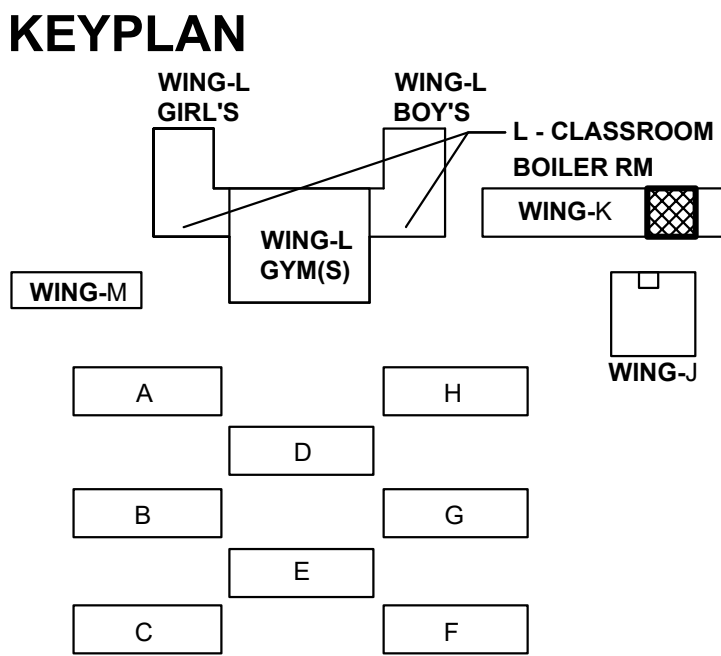
STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

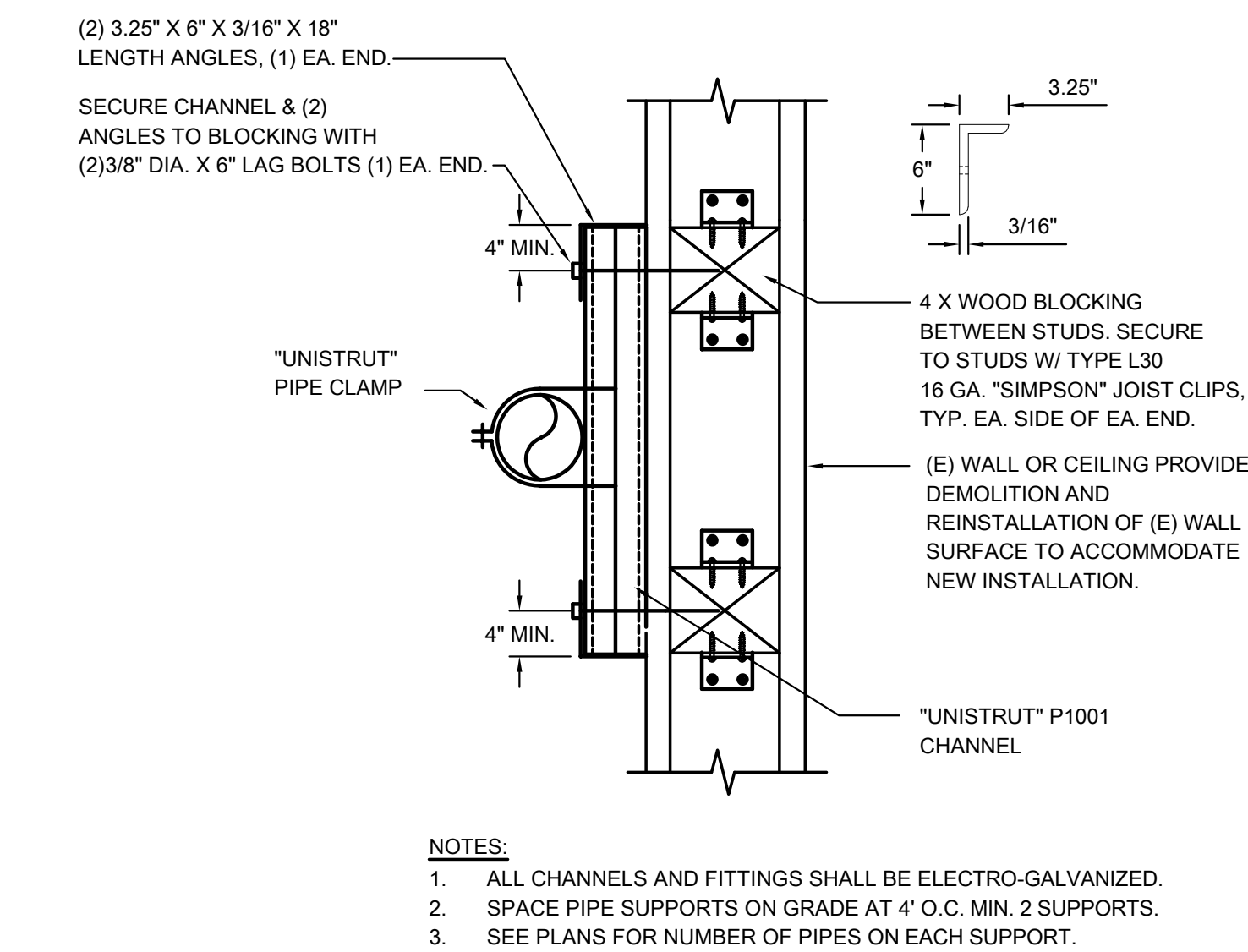
REVISIONS

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CONSTRUCTION DOCUMENT

P3.1

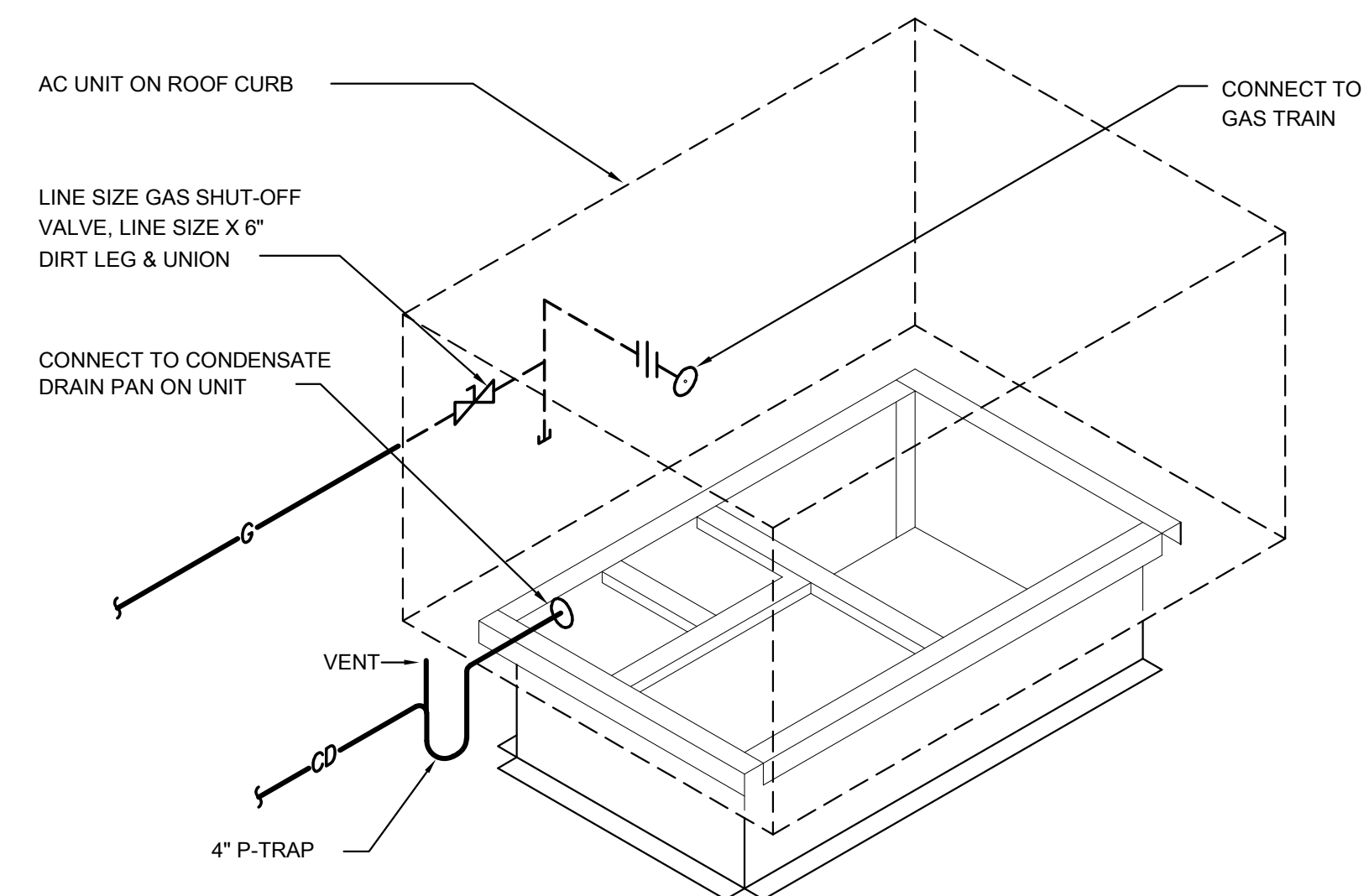




PIPING MOUNTED ON WALL

SCALE : NONE

7
P5.1



AC UNIT PIPING

SCALE : NONE

8
P5.1

VERTICAL PIPING SUPPORT SPACING				
PIPE, NOMINAL SIZE OF PIPE (IN.)	STEEL THREADED OR WELDED	STEEL GAS	COPPER BRAZED OR SOLDERED,	CPVC & PVC,
1/2" - 1"	12", SPACING OF HANGERS AND SUPPORTS FOR PIPING ASSEMBLED WITH MECH. JOINTS IN ACCORDANCE W/ STANDARDS & A.H.I.	6'	EACH FLOOR, NOT TO EXCEED 10'. SPACING OF HANGERS AND SUPPORTS FOR PIPING ASSEMBLED WITH MECH. JOINTS IN ACCORDANCE W/ STANDARDS & A.H.I.	BASE AND EACH FLOOR WITH MID-STORY GUIDES.

VERTICAL PIPING SUPPORT SPACING

SCALE : NONE

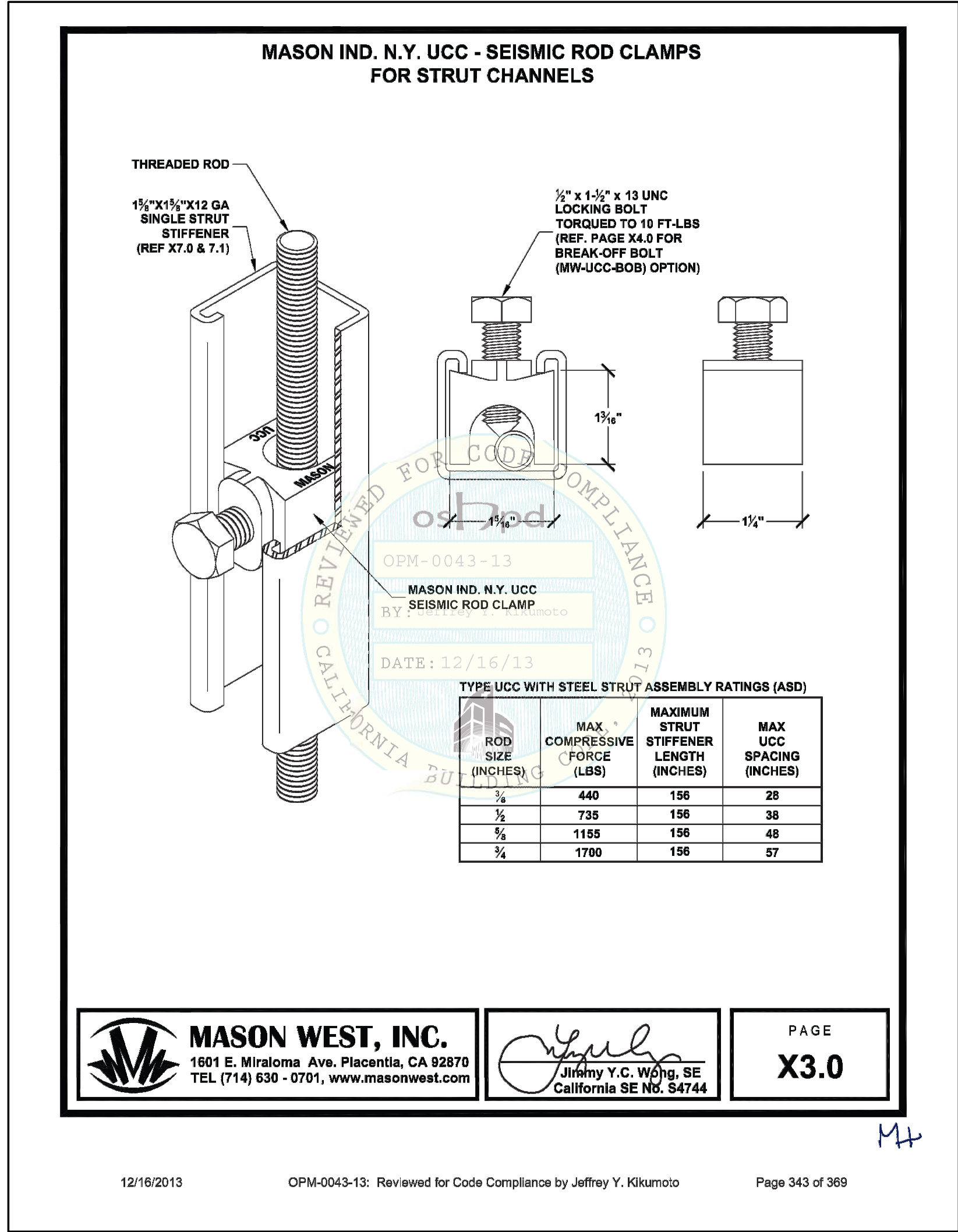
9
P5.1

HORIZONTAL PIPING SUPPORT SPACING				
PIPE, NOMINAL SIZE OF PIPE (IN.)	STEEL THREADED OR WELDED,	STEEL GAS	COPPER BRAZED OR SOLDERED,	CPVC & PVC,
1/2" - 1"	6'	6'	5'	3'

HORIZONTAL PIPING SUPPORT SPACING

SCALE : NONE

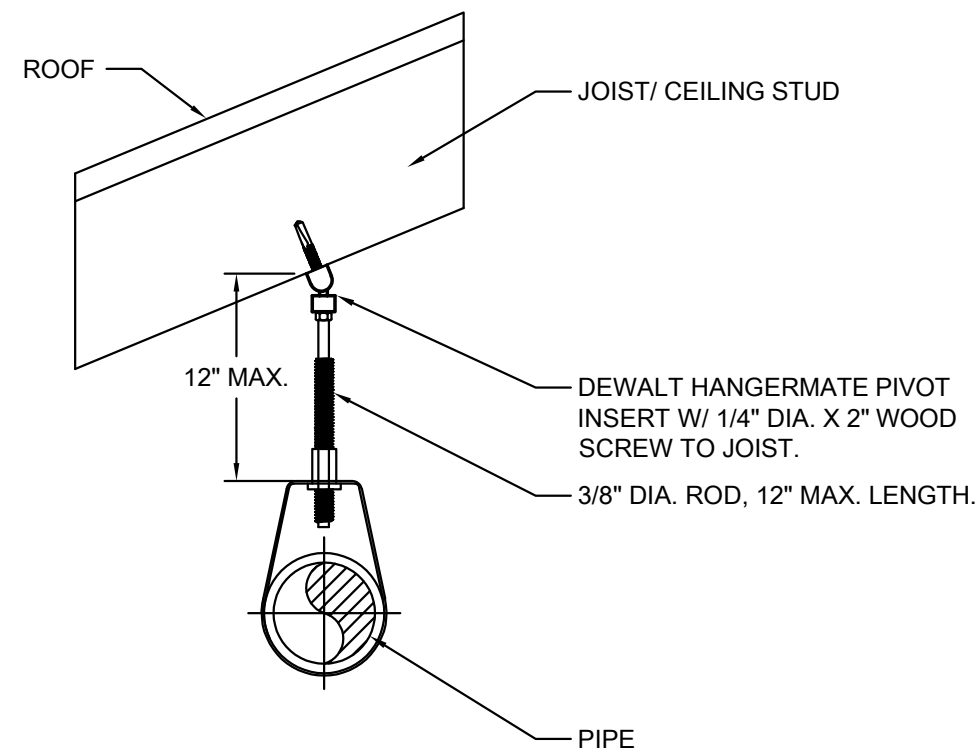
10
P5.1



ROD STIFFENER DETAIL

SCALE : NONE

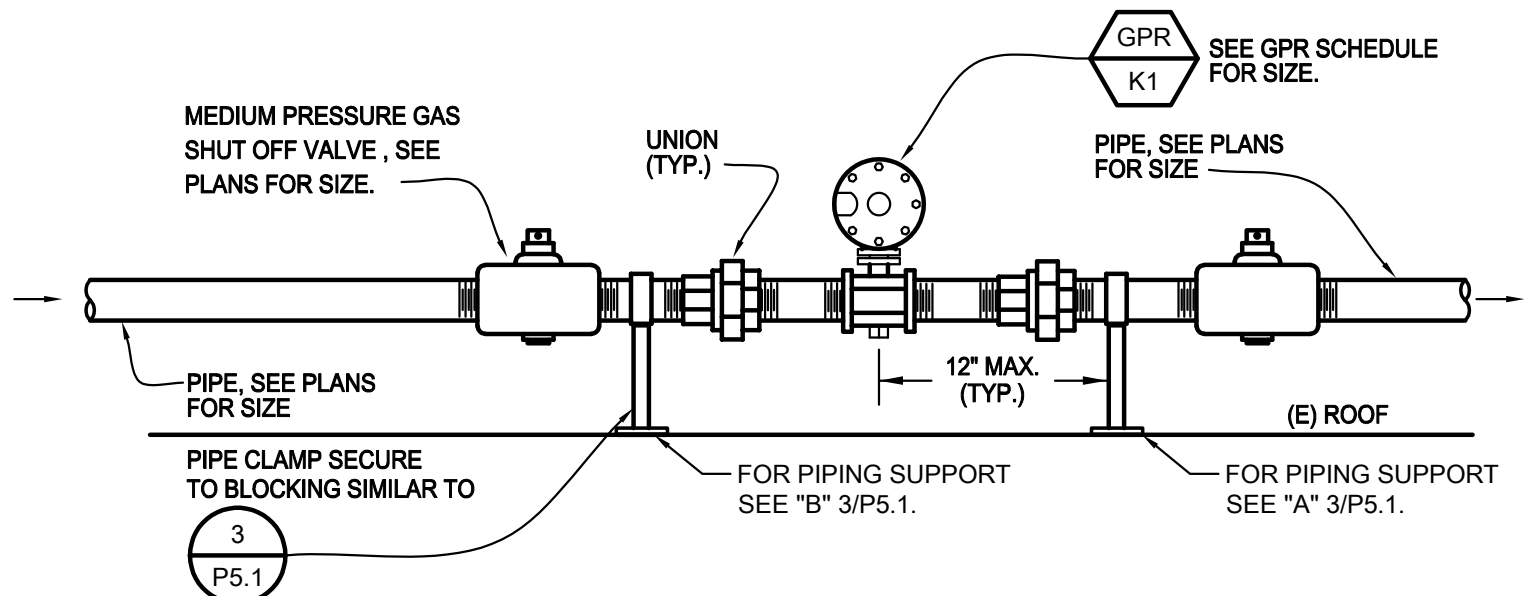
4
P5.1



PIPING FROM JOIST/CEILING STUD

SCALE : NONE

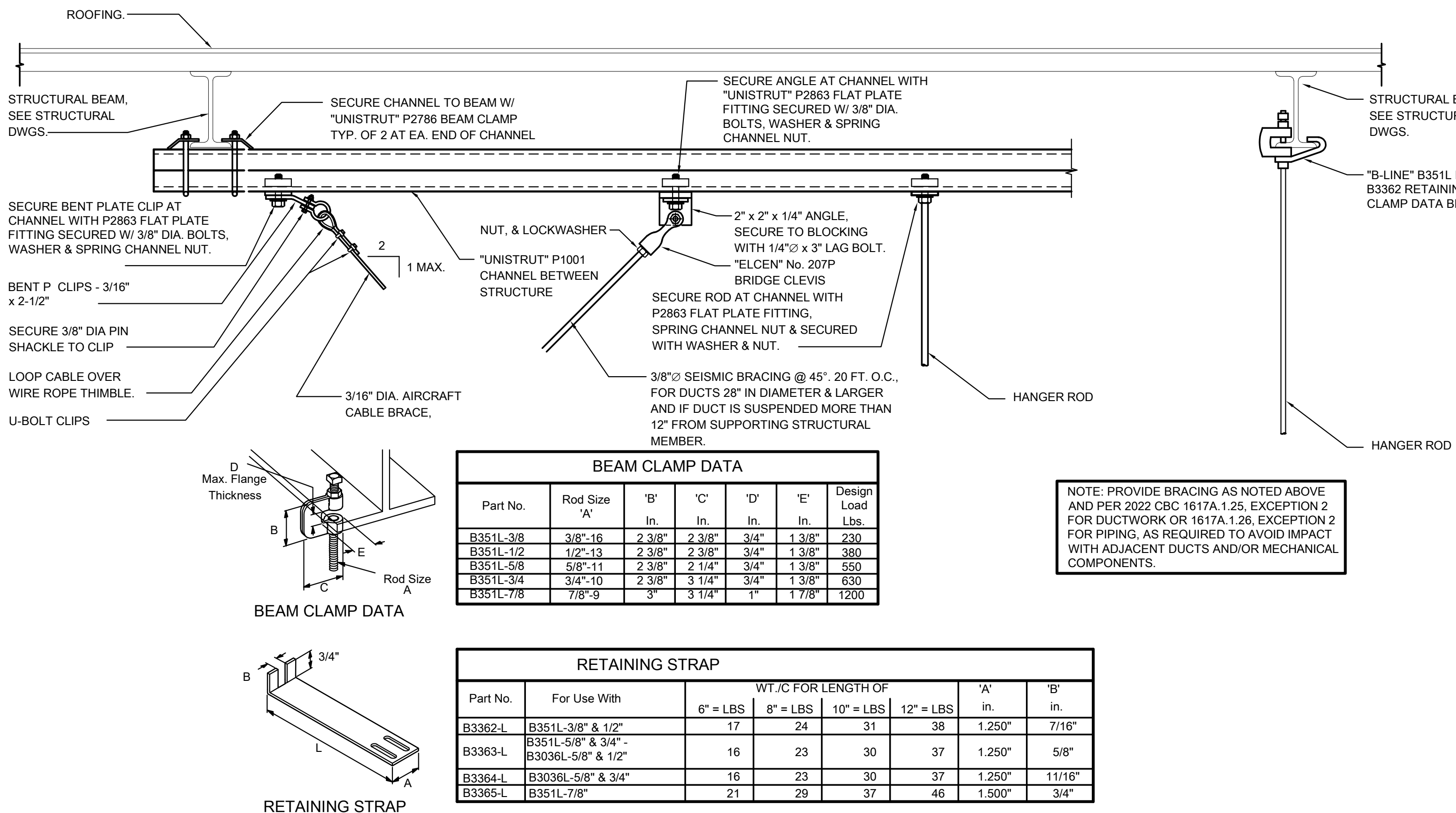
5
P5.1



GAS PRESSURE REGULATOR ON ROOF DETAIL

SCALE : NONE

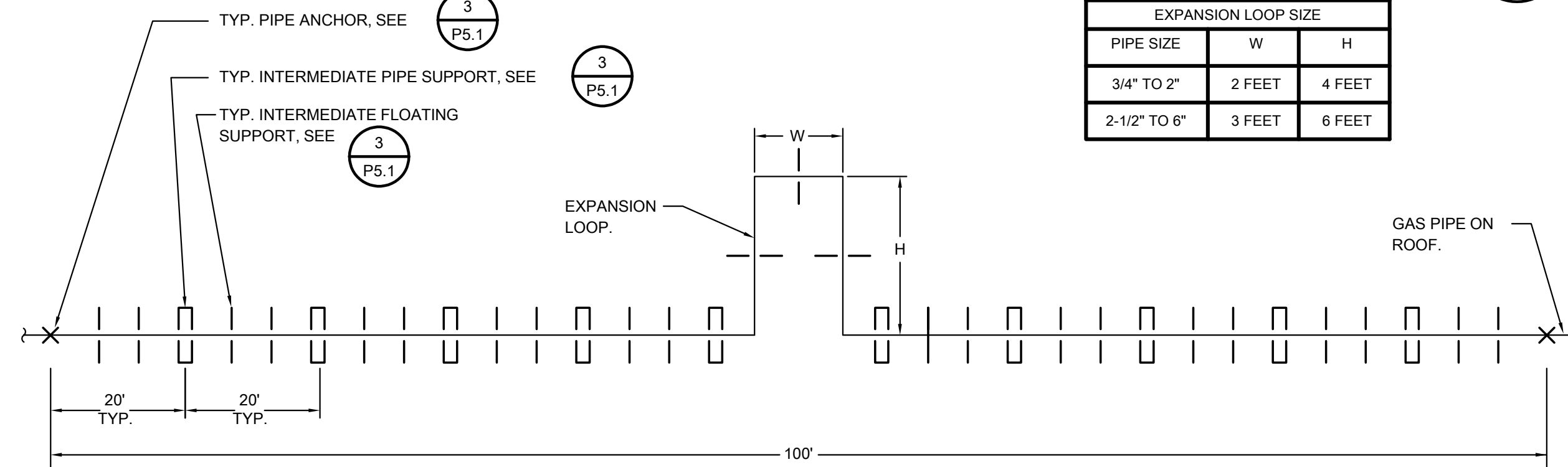
6
P5.1



UPPER ATTACHMENT AT STRUCTURE

SCALE : NONE

1
M5.2



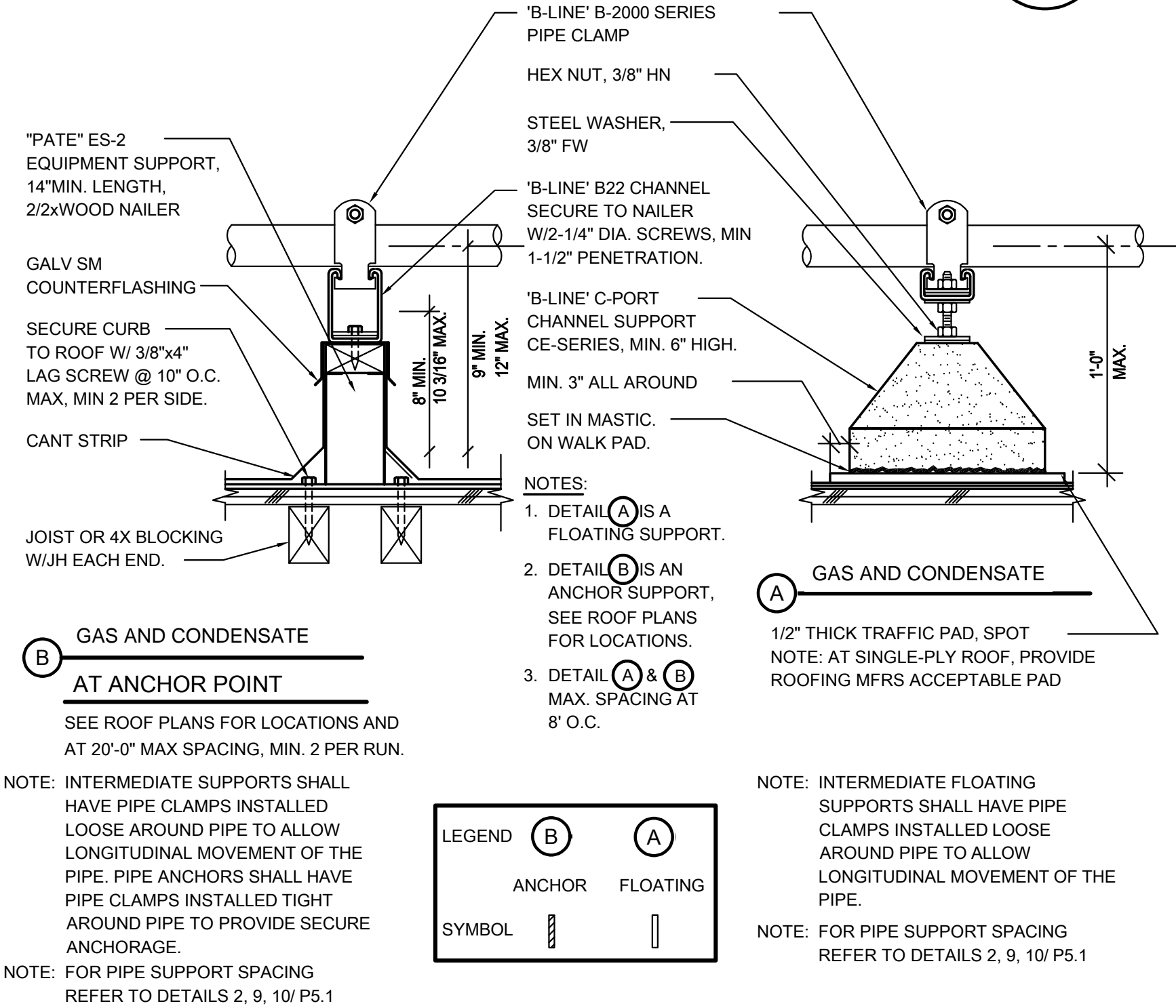
2022 CPC
TABLE 1210.2.4.1
SUPPORT OF PIPING
NFPA 547.2.5.2
TABLE 7.2.5.2
SUPPORT OF PIPING CHART

STEEL PIPE, NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)	NOMINAL SIZE OF TUBING SMOOTH-WALL (IN. O.D.)	SPACING OF SUPPORTS (FT.)
3/4 OR 1	6	5/8 OR 3/4	6
1 1/4 OR LARGER (HORZ.)	10	1 OR LARGER (HORZ.)	8
1 1/4 OR LARGER (VERT.)	EVERY FLOOR LEVEL	1 OR LARGER (VERT.)	EVERY FLOOR LEVEL

GAS PIPE ON ROOF SUPPORT/ANCHORAGE DETAIL

SCALE : NONE

2
P5.1



PIPE ON ROOF MOUNTING DETAIL

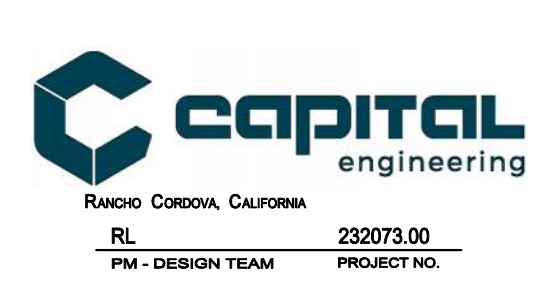
SCALE : NONE SUPPORT PER CPC 1210.2.4.1 & 1210.2.4.2 AND NFPA 547.2.6.2, 7.2.6.3, 7.2.6.4

3
P5.1

DSA APP. NO: 02-122192



3701 Business Drive Suite 200
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Phone: (916) 365-9655



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

No.	Description	Date
1	Revision 1	Date 1

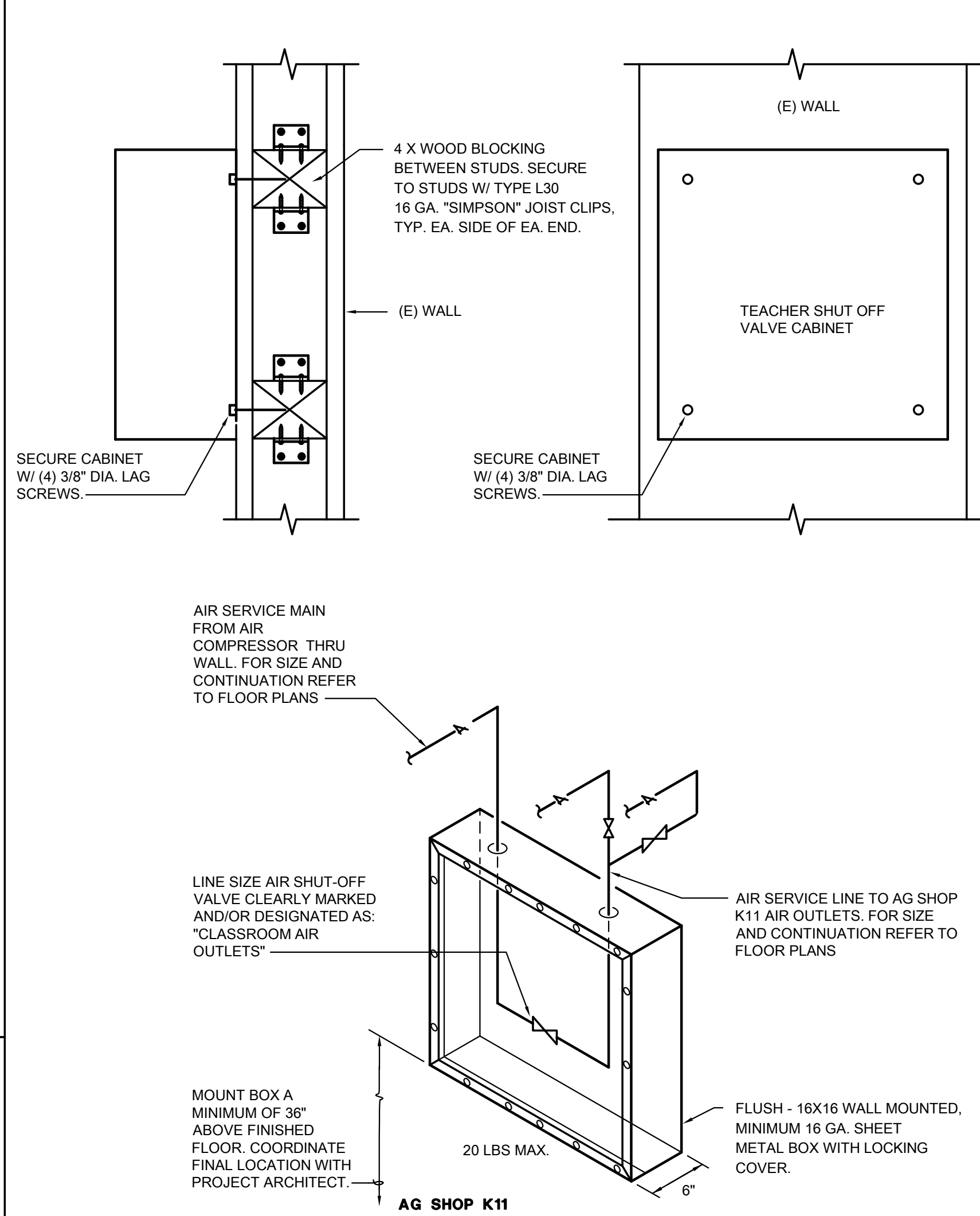
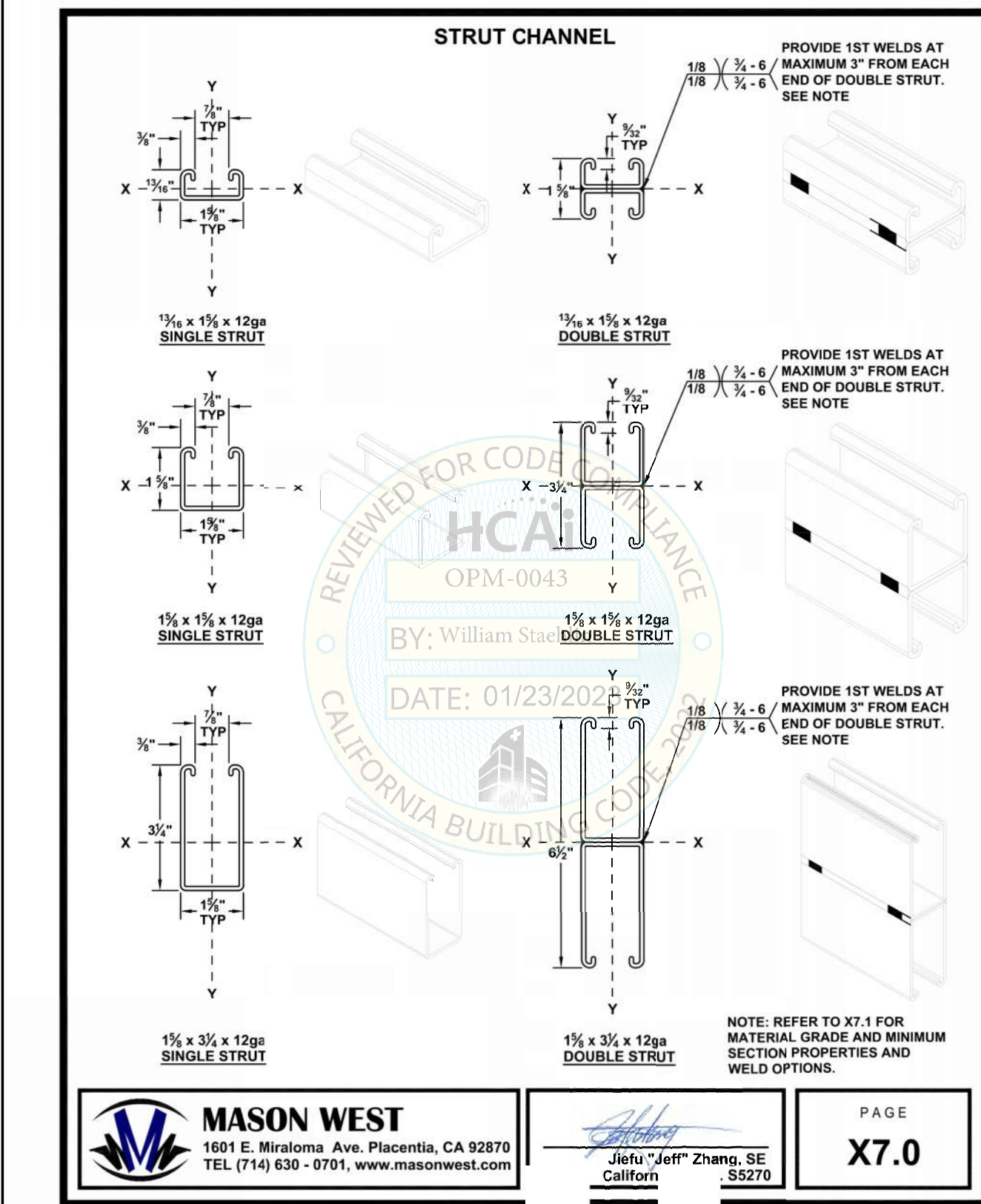
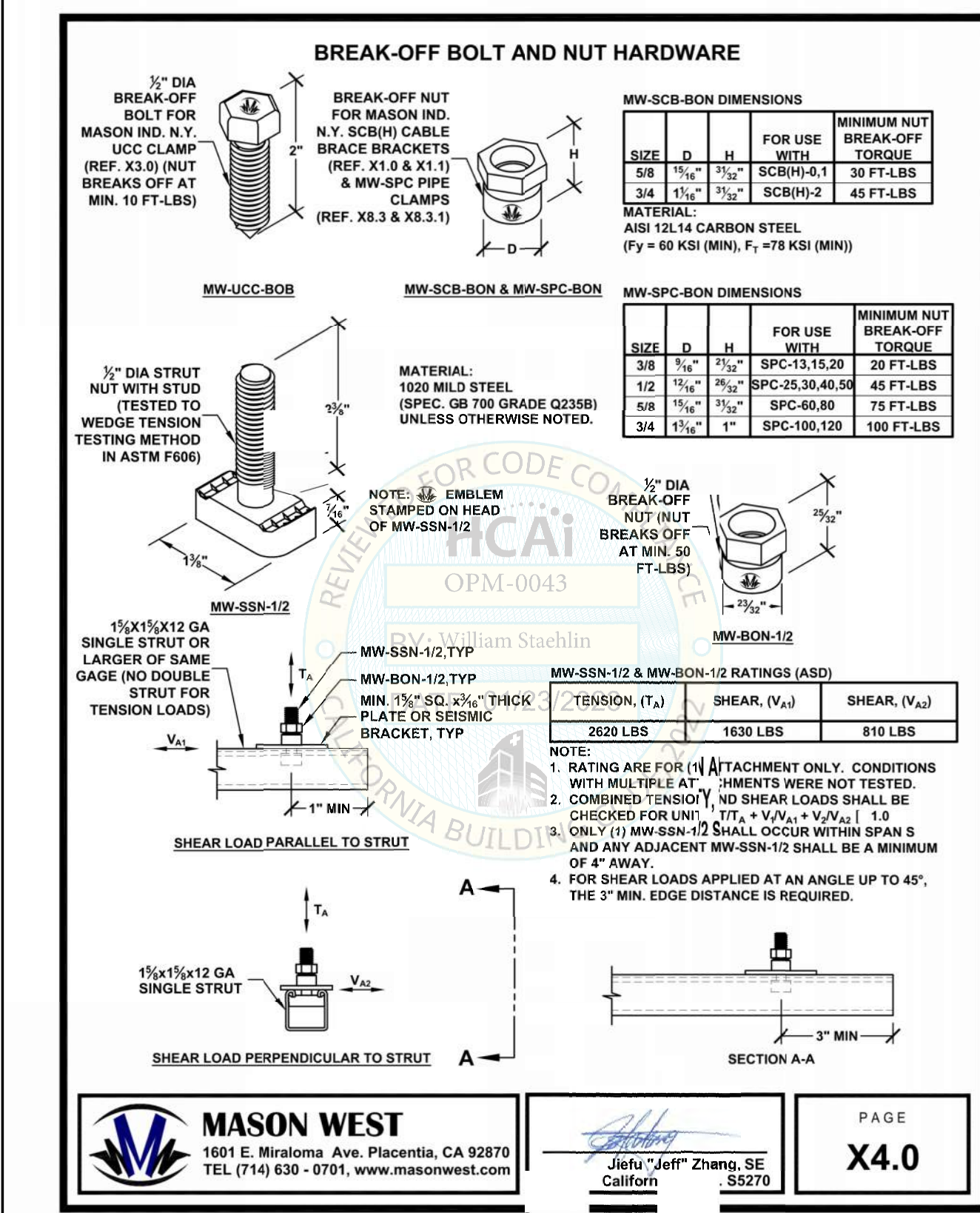
PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

PLUMBING DETAILS

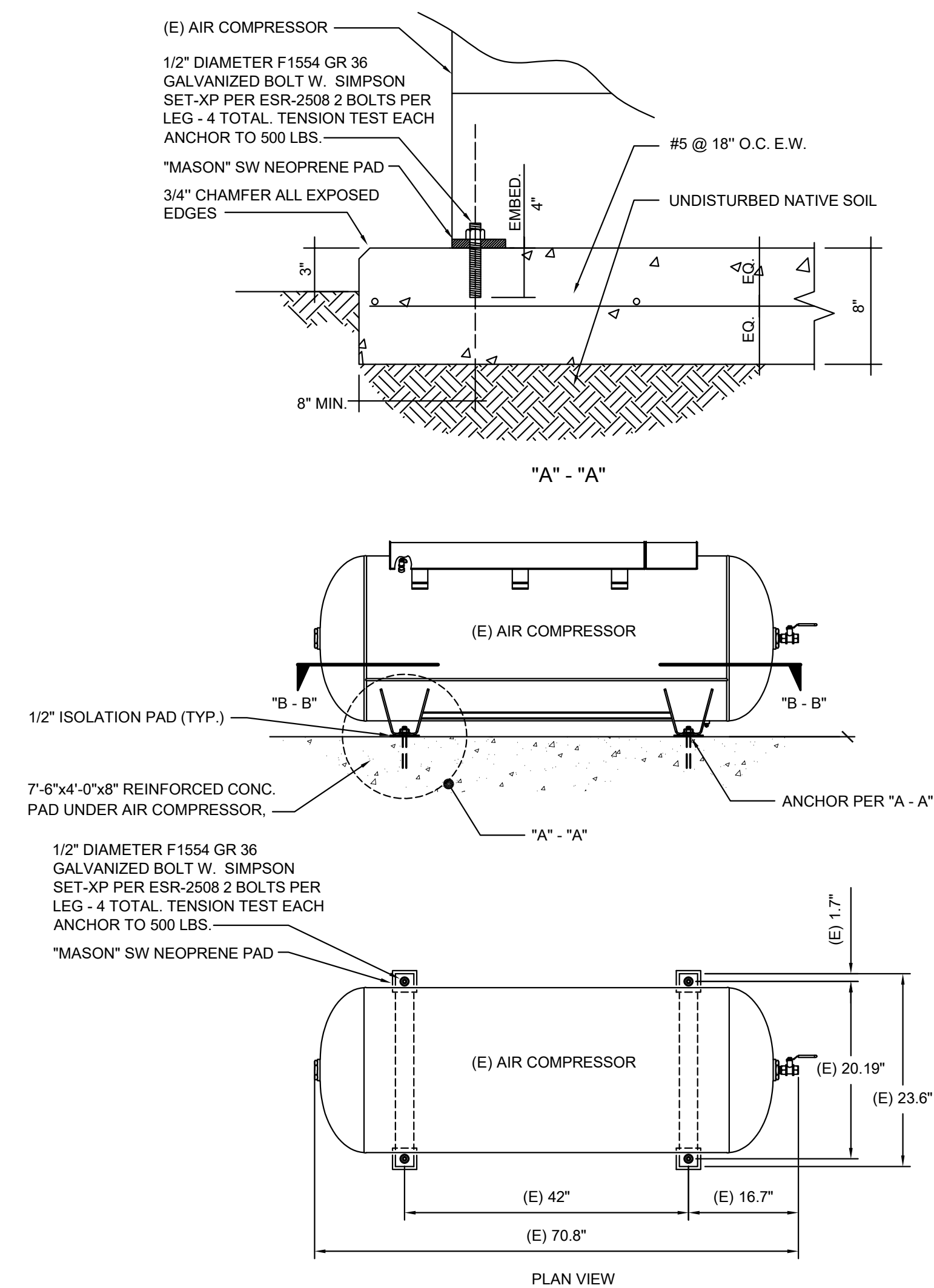
P5.1

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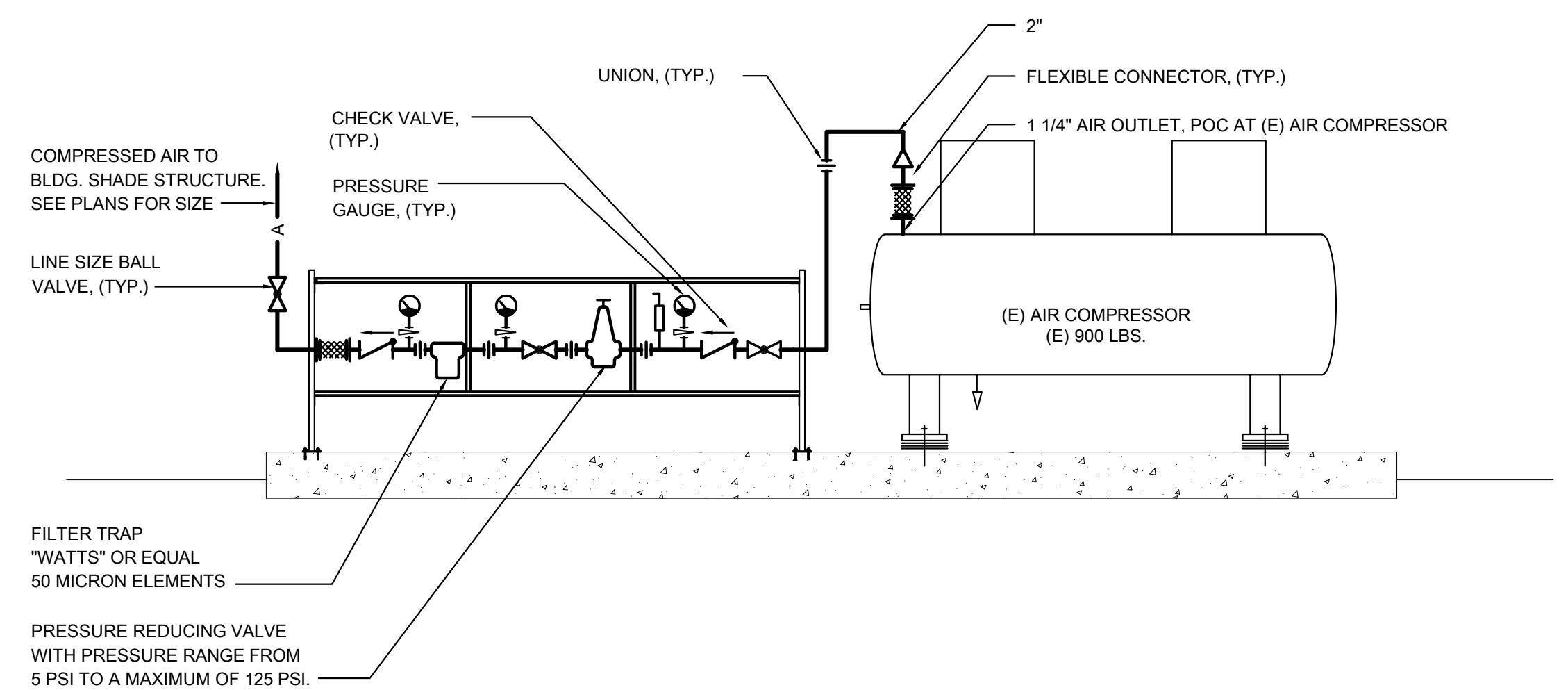
TEACHER'S **AIR SHUT-OFF VALVE IN WALL BOX**

SCALE : NONE



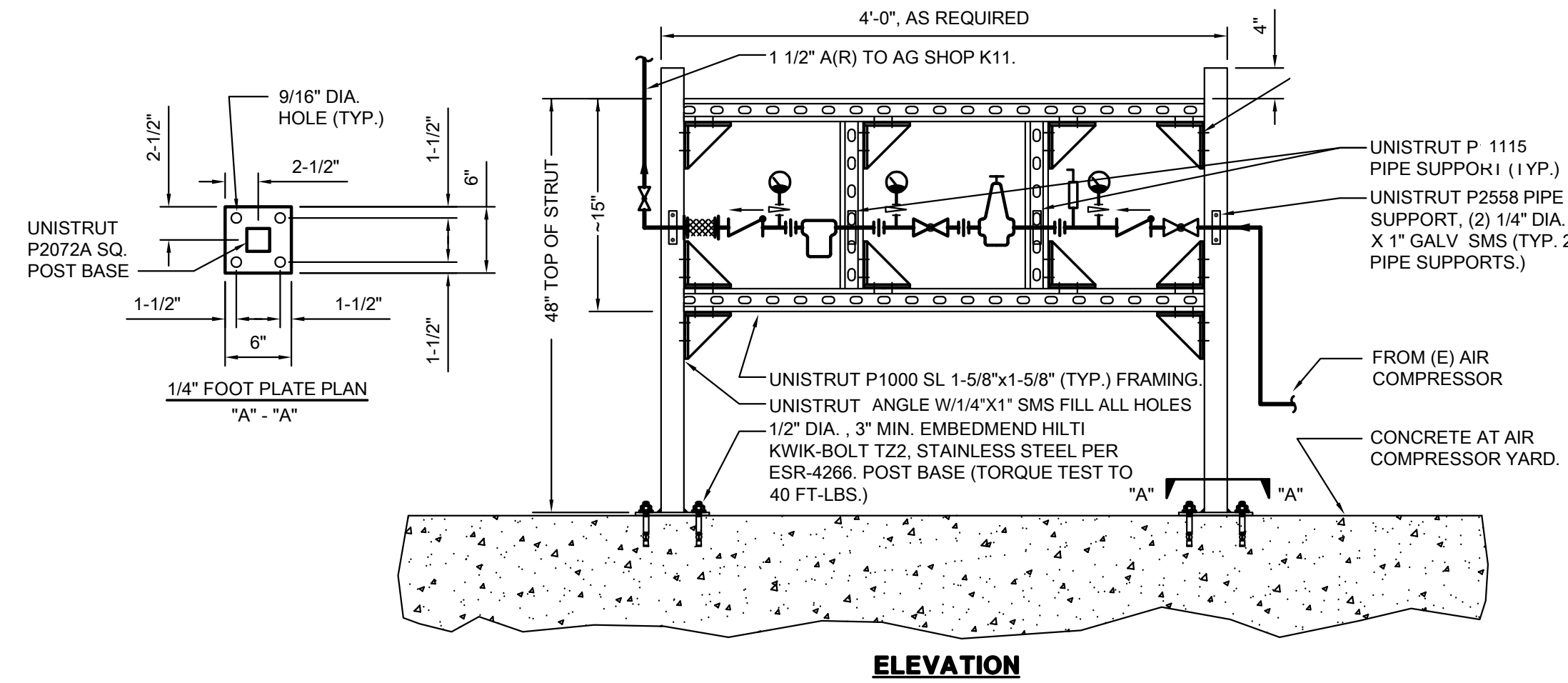
AIR COMPRESSOR ANCHORING

SCALE : NONE



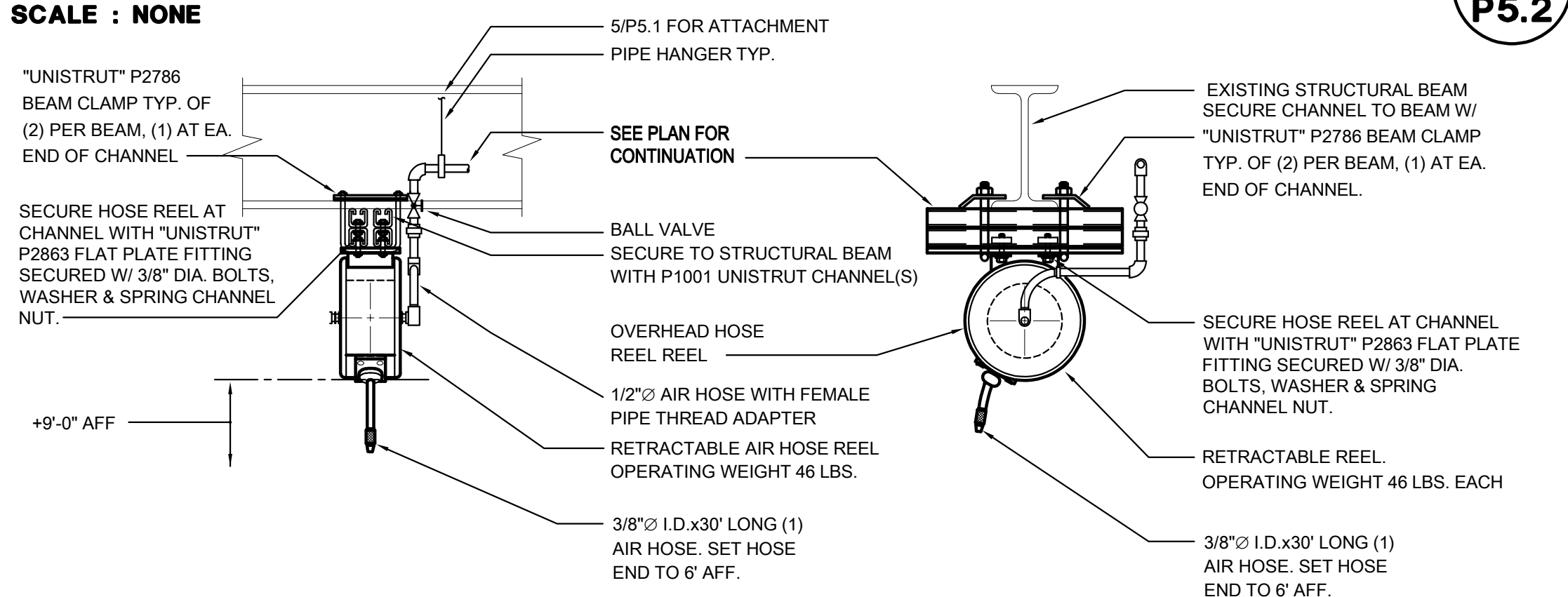
AIR COMPRESSOR DIAGRAM AND DETAIL

SCALE : NONE



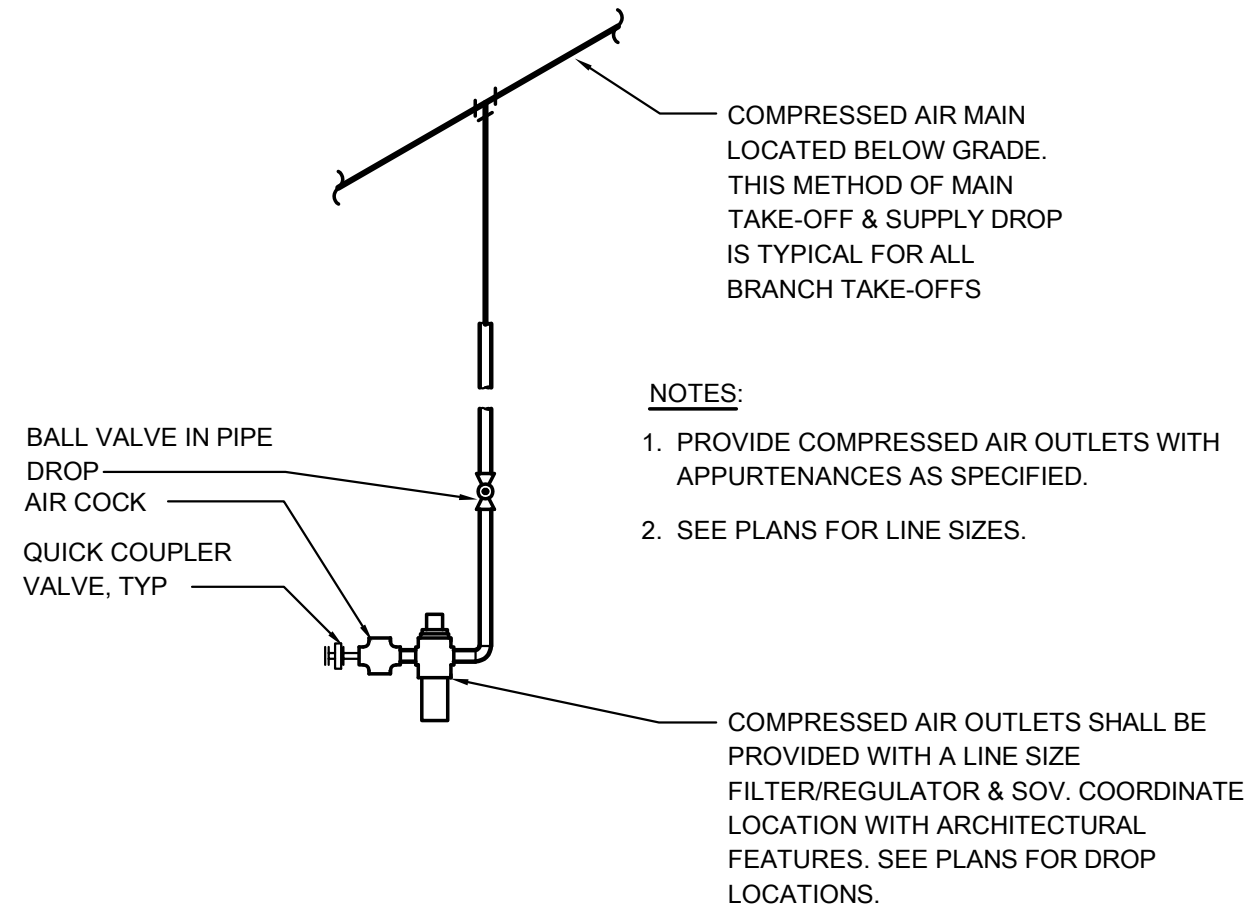
FILTER RACK MOUNTING DETAIL

SCALE : NONE



HOSE REEL MOUNTING DETAIL

SCALE : NONE



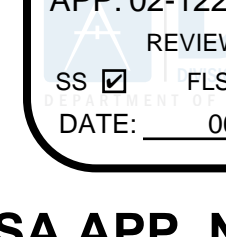
COMPRESSED AIR PIPING DETAIL AT WALL




SCALE : NONE


IDENTIFICATION STAMP
DW. OF THE STATE ARCHITECT

APP: 02-122192 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

DSA APP. 02-122192



	
<hr/>	
<p><i>Ken D. Dittels</i></p>	
	
<p>DATE SIGNED: 06/06/2024</p>	
<hr/>	
	
<p>capital engineering</p>	
<p>RICHMOND CORONA, CALIFORNIA</p>	
RL	230703.00
PM - DESIGN TEAM	PROJECT NO.



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

**STAGG HIGH
SCHOOL
AGRICULTURAL
MECHANICS SHOP
RENOVATION**

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

**STOCKTON UNIFIED SCHOOL
DISTRICT**

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PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

PLUMBING DETAILS

P5.2



MECHANICS SHOP RENOVATION

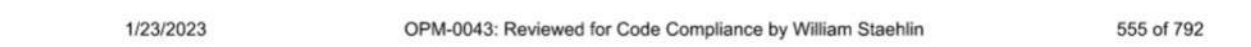
REFERENCES

No.	Population	Date
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







1	Revision 1	Date 1














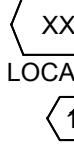


























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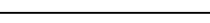



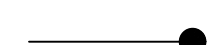
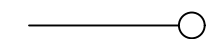
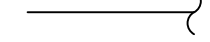








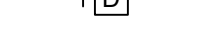
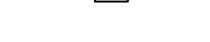




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QC	
INI	%

ELECTRICAL LEGEND	
SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DD	DROP DOWN RECEPTACLE (REFER TO 4/E0.3)
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
N/A	NOT APPLICABLE
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER
<u>CONNECTIONS / EQUIPMENT</u>	
	HEAVY DUTY FUSED DISCONNECT SWITCH
 OR 	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	TRANSFORMER
	DOORBELL - NUTONE #LA11WH +7"-6"
	DOORBELL PUSH BUTTON
	ENCLOSED CIRCUIT BREAKER

ELECTRICAL LEGEND cont'd	
SYMBOL/ ABBREVIATION	DESCRIPTION
FIRE ALARM	
	FIRE ALARM CONTROL PANEL
	SUSPENDED REMOTE POWER SUPPLY
	PHOTOELECTRIC SMOKE DETECTOR
	COMBINATION SMOKE ALARM AND CARBON MONOXIDE DETECTOR, SINGLE STATION
	SPRINKLER FLOW SWITCH
	SPRINKLER POST INDICATOR VALVE
	SPRINKLER TAMPER SWITCH
	F.A. ADDRESSABLE MONITOR MODULE
	FIRE ALARM CONTROL RELAY
	STROBE WITH CANDELA RATING
	HORN/STROBE WITH CANDELA RATING
	HORN
	EXTERIOR 120V SPRINKLER HORN/STROBE
GENERAL	
NEW WORK	
	EQUIPMENT IDENTIFICATION
	KEYED NOTE
LIGHTING	
	CEILING FAN
	EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE
	SURFACE OR PENDANT MOUNTED LUMINAIRE
	SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
PENDENT	
	WALL MOUNTED LUMINAIRE
	BOLLARD
MISCELLANEOUS	
	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL. WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	CURRENT TRANSFORMER
	DIGITAL TYPE METER WITH VOLTMETER, AMMETER, KW METER, KVA METER, KVAR METER, AND %THD METER
	EQUIPMENT CONNECTION ITEM. REFER TO SCHEDULE
	FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
	FLUSH WALL MOUNTED BRANCH PANEL
	GROUND ROD
	GROUNDING POINT
	LANDING LUG
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	UTILITY TRANSFORMER PAD/VAULT
	WALL MOUNTING BRACKET
	WATER PIPE GROUND CONNECTION

ELECTRICAL LEGEND cont'd	
SYMBOL/ ABBREVIATION	DESCRIPTION
	RACEWAYS
	CONDUIT CONCEALED IN WALL OR CEILING SPACE
	CONDUIT ROUTED BELOW FLOOR / GRADE
	CATV ROUTED BELOW FLOOR / GRADE
	TEL/DATA ROUTED BELOW FLOOR / GRADE
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	CONDUIT/WIRING CONTINUATION
	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
	FLEXIBLE CONDUIT
	TELEPHONE BACKBOARD
	SWITCHES AND RECEPTACLES
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER B = CLOCK HANGER C = FLUSH CEILING MOUNTED DD = DROP DOWN RECEPTACLE E = EMERGENCY F = ARCO FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRE T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
	DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
	SINGLE RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
	EQUIPMENT ELECTRICAL CONNECTION
	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU s (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH
	MANUAL DIMMER WITH ON/OFF OVERRIDE
	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR WITH DIMMER AND MANUAL ON/OFF OVERRIDE
	DUPLEX RECEPTACLE, FLUSH FLOOR
	CEILING MOUNTED OCCUPANCY SENSOR (SELF CONTAINED)
	CEILING MOUNTED DAYLIGHTING SENSOR
	SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION A = 5-30R NEMA CONFIGURATION RECEPTACLE B = 6-50R NEMA CONFIGURATION RECEPTACLE C = 18-20R NEMA CONFIGURATION RECEPTACLE D = 6-30R NEMA CONFIGURATION RECEPTACLE F = 11-30R NEMA CONFIGURATION RECEPTACLE G = 6-20R NEMA CONFIGURATION RECEPTACLE A-DD = 5-30R NEMA CONFIGURATION DROP DOWN RECEPTACLE B-DD = 6-50R NEMA CONFIGURATION DROP DOWN RECEPTACLE C-DD = 18-20R NEMA CONFIGURATION DROP DOWN RECEPTACLE D-DD = 6-30R NEMA CONFIGURATION DROP DOWN RECEPTACLE F-DD = 11-30R NEMA CONFIGURATION DROP DOWN RECEPTACLE G-DD = 6-20R NEMA CONFIGURATION DROP DOWN RECEPTACLE

ELECTRICAL GENERAL NOTES

- A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.
- B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.
- C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.
- D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.
- E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.
- F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.
- G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.
- H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
- I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

- A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.
- B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).
- I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL PNEUMATIC, 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:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE 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 100/200 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS AND HAS 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 COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 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 6 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORING OF MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN THE EVENT OF AN INVISIBLE 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 NOTED BRACING SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS 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 1607A.1.24, 1607A.1.25 AND 1607A.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 SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

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 HCAI (OSHPI) PREAPPROVAL (OPM #) _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

SHEET INDEX	
E0.1	ELECTRICAL COVER SHEET
E0.2	ELECTRICAL ONE-LINE DIAGRAM
E0.3	ELECTRICAL DETAILS
E1.0	ELECTRICAL SITE PLAN
E2.0	ELECTRICAL DEMO POWER FLOOR PLAN
E2.1	ELECTRICAL POWER FLOOR PLAN
E2.2	ELECTRICAL DEMO POWER ROOF PLAN
E2.3	ELECTRICAL POWER ROOF PLAN
E3.0	ELECTRICAL DEMO LIGHTING FLOOR PLAN
E3.1	ELECTRICAL LIGHTING FLOOR PLAN
E3.2	SIGNAL DEMO FLOOR PLAN
E4.1	SIGNAL FLOOR PLAN
E5.0	FIRE ALARM DEMO FLOOR PLAN
E5.1	FIRE ALARM FLOOR PLAN
E6.0	FIRE ALARM GENERAL NOTES AND DETAILS
E6.0	TITLE 2.4 LTO FORMS
E6.1	TITLE 2.4 LTI FORMS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122192 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

DSA APP. NO: 02-122192



**3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655**



Date Signed: 6/5/24



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

[illegible]

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

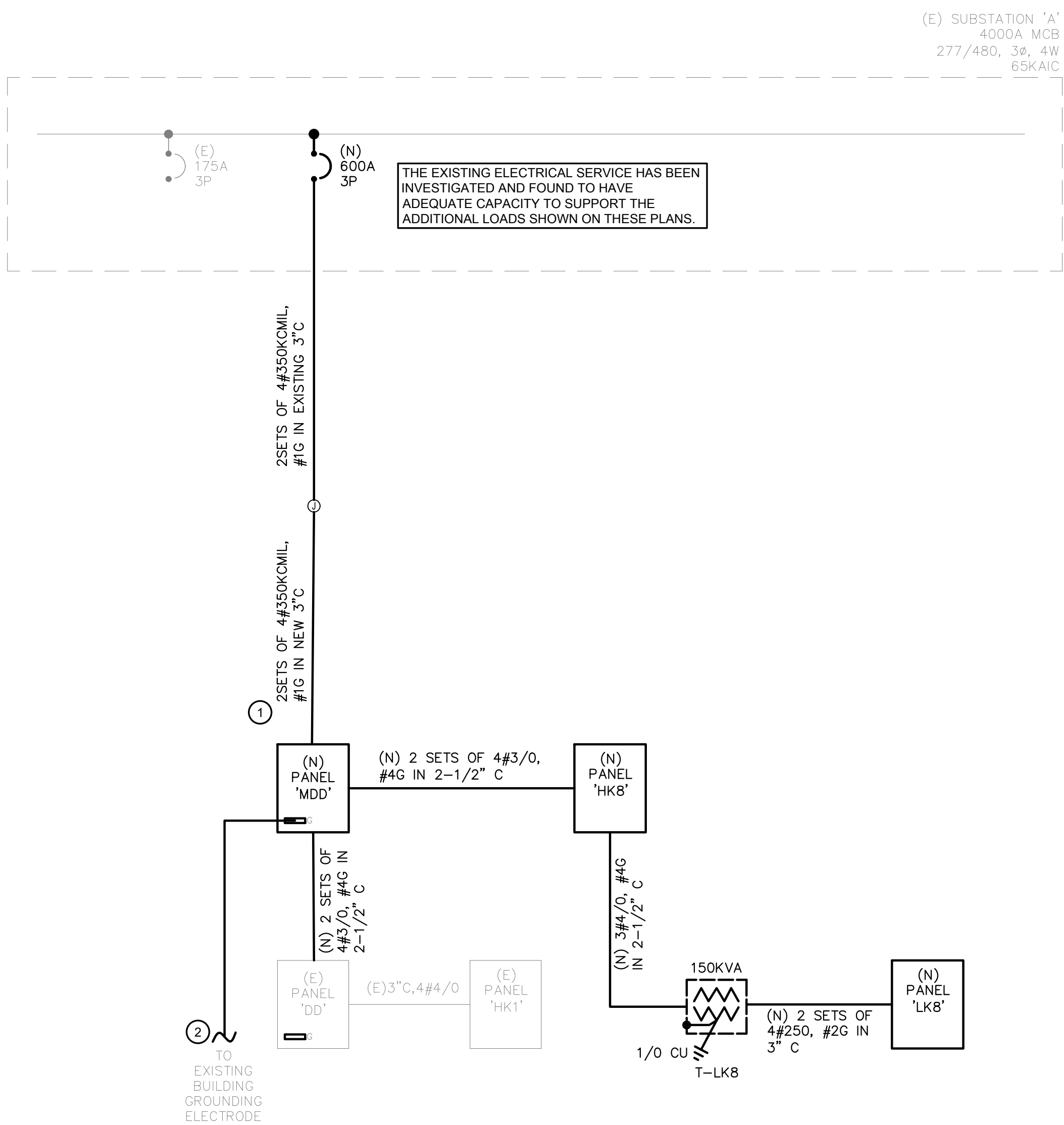
ELECTRICAL COVER SHEET

E0.1

QC	
INI	%

DEMOLITION ONE-LINE DIAGRAM

SCALE : NTS



RENOVATION ONE-LINE DIAGRAM

SCALE : NTS

PANELBOARD SCHEDULE - LK8

DESIGNATION	FEEDER NO.	POLES & AMPS	LTG.	LOAD VA	RECD.	OTHER	C	P	K	LTG.	LOAD VA	RECD.	OTHER	POLES & AMPS	FEEDER NO.	DESIGNATION			
WELDING MACHINE 120V	3	1/30		2952			1	A	2			360			1/20	1	RECEPTACLES		
				3608.8			3	B	4			360			1/20	1	RECEPTACLES		
WELDING MACHINE 208V	4	2/40		3608.8			5	C	6			360			1/20	1	RECEPTACLES		
				2952			10	A	8			360			1/20	1	RECEPTACLES		
WELDING MACHINE 120V	3	1/30		2952			9	B	10			360			1/20	1	RECEPTACLES		
				3608.8			11	C	12			360			1/20	1	RECEPTACLES		
WELDING MACHINE 120V	3	1/30		2952			13	A	14			2500			2/30	3	SPECIAL OUTLET		
				3608.8			15	B	16			2500							
WELDING MACHINE 208V	4	2/40		3608.8			17	C	18			2500			2/30	1	SPECIAL OUTLET/DOUST COLLECTOR		
				2952			19	A	20			2500							
WELDING MACHINE 120V	3	1/30		2952			21	B	22			2500			2/30	3	SPECIAL OUTLET		
				3608.8			23	C	24			2500							
WELDING MACHINE 208V	4	2/40		3608.8			25	A	26			2500			2/30	3	SPECIAL OUTLET		
				2952			27	B	28			2500			2/30	3	SPECIAL OUTLET		
WELDING MACHINE 120V	3	1/30		2952			29	C	30			2500			2/30	3	SPECIAL OUTLET		
				3608.8			31	A	32			2500							
WELDING MACHINE 208V	4	2/40		3608.8			33	B	34			2500			2/30	3	SPECIAL OUTLET/PLASMA CUTTER		
				2952			35	C	36			2500							
WELDING MACHINE 120V	3	1/30		2952			37	A	38			2500			2/30	3	SPECIAL OUTLET		
				3608.8			39	B	40			2500							
WELDING MACHINE 208V	4	2/40		3608.8			41	C	42			360			1/20		RECEPTACLES		
SECTION SUB-TOTALS			0	71187.2	0					0	37520	0					SECTION SUB-TOTALS		
SECTION 2																			
SERVES	FEEDER	POLES & AMPS	LTG.	LOAD VA	RECD.	OTHER	C	P	K	LTG.	LOAD VA	RECD.	OTHER	POLES & AMPS	FEEDER	SERVES			
WELDING MACHINE 120V	3	1/30		2952			43	A	44			2500			2/30	3	SPECIAL OUTLET		
				3608.8			45	B	46			2500							
WELDING MACHINE 208V	4	2/40		3608.8			47	C	48			2500			2/30	3	SPECIAL OUTLET		
				500			49	A	50			2500							
REF-K1	2	3/20		500			51	B	52			180			1/20	1	RECEPTACLES		
				500			53	C	54			1000			1/20**	1	FIRE ALARM PANEL		
REF-K2	2	3/20		500			55	A	56			2500			2/30	3	SPECIAL OUTLET		
				500			57	B	58			2500							
				500			59	C	60			500			1/20	1	CONDENSATE PUMP		
OAF-K1	1			500			61	A	62			360			1/20	1	RECEPTACLES		
ASTRONOMIC TIME SWITCH	1	1/20	150				63	B	64			360			1/20	1	RECEPTACLES		
SH-PO-K1	1	2/15		1600			65	C	66			360			1/20	1	RECEPTACLES		
				1600			67	A	68			360			1/20	1	RECEPTACLES		
SPECIAL OUTLET	3	2/30		2500			69	B	70			360			1/20	1	RECEPTACLES		
				2500			71	C	72			360			1/20	1	RECEPTACLES		
OPENING FOUNTAIN	1	1/20		1200			73	A	74			720			1/20	1	RECEPTACLES		
MOTORIZED DAMPER	1	1/20		500			75	B	76			360			1/20	1	RECEPTACLES		
SPARE		1/20					77	C	78			2500							
SPARE		1/20					79	A	80			2500			3/30	5	SPECIAL OUTLET/IRONWORKER		
SPARE		1/20					81	B	82			2500							
SPARE		1/20					83	C	84			360			1/20		SPARE		
SECTION SUB-TOTALS			0	15319.6	8400					0	26920	500					SECTION SUB-TOTALS		
MOUNTING: SURFACE																			
CATEGORY		CONN. LOAD		DESIGN LOAD		MOUNTING:				SURFACE				REMARKS:					
		KVA	AMPS	DIV.	KVA	AMPS	VOLTS:				120/208				** - PROVIDE RED BREAKER WITH LOCK-ON CLIP				
LIGHTING:		0.0	0.0	1.25	0.0	0.0	PHASE/WIRE				3/4								
RECEPTACLE		150.9	419.5	0.53	60.5	223.6	MAINS SIZE				500 AMPS								
CUTTORS:		5.9	24.7	1.00	5.9	24.7	MAINS TYPE				MCB				FEEDER NO.:				
SPECIAL LOADS:		0.0	0.0	1.00	0.0	0.0	BUSLSS TYPE				COPPER				1 = 2 #12, #12G - 1/2"				
ELECTRIC HEATING:		0.0	0.0	1.00	0.0	0.0	BRKR TYPE				BOLT-IN				2 = 3 #12, #12G - 1/2"				
WATER HEATING:		0.0	0.0	1.00	0.0	0.0	A.I.C. (RMS):				10,000				3 = 2 #10 #10G - 3/4"				
EVS/EVCS		0.0	0.0	1.25	0.0	0.0	A Phase				52.6 Connected Kva				4 = 2 #8 #10G - 3/4"				
							B Phase				55.0 Connected Kva				5 = 3 #10 #10G - 3/4"				
							C Phase				52.3 Connected Kva								
TOTAL:		159.8	444.2		89.4	248.4													

PANELBOARD SCHEDULE - IMD																
DESIGNATION	FEEDER NO.	POLES & AMPS	LOAD VA					C	P	K	LOAD VA			POLES & AMPS	FEEDER NO.	DESIGNATION
			LTG	RECP	OTHER	K	H				LTG	RECP	OTHER			
(EPANEL DD		3/400			48000	1	A	2			75146			3/400		PANEL "HKS"
					48000	3	B	4			75204					
					48000	5	C	6			73370.4					
SPARE		1/20			7	A	8						1/20			SPARE
SPARE		1/20			9	B	10						1/20			SPARE
SPARE		1/20			11	C	12						1/20			SPARE
SPACE					13	A	14									SPACE
SPACE					15	B	16									SPACE
SPACE					17	C	18									SPACE
SECTION SUB-TOTALS			0	0	144000					0	0	223766.8				SECTION SUB-TOTALS

CATEGORY	CONN. LOAD		DESIGN LOAD		KVA	MOUNTING:	SURFACE	REMARKS:
	KVA	AMPS	DIV.	1				
LIGHTING:	3.2	3.9	1	1.25	4.0	4.9	277480	
RECEIPTAGE:	171.7	206.8	0.53	10.9	109.4	133	VOLTS: 304	
MOTORS:	48.8	58.8	1.00	48.8	58.8	72	MAN'S SIZE 600 AMPS	
SPECIAL LOADS:	144.0	172.4	1.00	144.0	172.4	210	MAN'S TYPE MCB	
ELECTRIC HEATING:	0.0	0.0	1.00	0.0	0.0	0	(BUS TYPE) COPPER	
WATER HEATING:	0.0	0.0	1.00	0.0	0.0	0	BRKR TYPE BOLT-IN	
EV/SEVCS	0.0	0.0	1.25	0.0	0.0	0	A.I.C. (RMS): 42,000	
TOTAL:	367.8	442.9		287.7	346.5		A Phase 121.3 Connected Kva	
							B Phase 123.3 Connected Kva	
							C Phase 121.4 Connected Kva	

FEEDER NO.:	1	2 #1/2 #125 - 1/2"
	2	2 #1/0 #103 - 3/4"

PANELBOARD SCHEDULE - HK8																
DESIGNATION	FEEDER NO.	POLES & AMPS	LOAD				C			LOAD VA			POLES & AMPS	FEEDER NO.	DESIGNATION	
			LTG.	RECP.	OTHER	K	P	K	LTG.	RECP.	OTHER					
TRANSFORMER T-UK8		3/175				52576	1	A	2		1300		2/20	1	DRAFT TABLE	
						55000.4	3	B	4		1300		2/20	1	DRAFT TABLE	
						52210.4	4	C	6		1300		2/20	1	DRAFT TABLE	
ROLL-UP DOOR	2	3/20				1500	7	A	8		1300		2/20	1	DRAFT TABLE	
						1500	9	B	10		1300		2/20	1	DRAFT TABLE	
						1500	11	C	12		1300		2/20	1	DRAFT TABLE	
						1500	13	A	14		1300		2/20	1	DRAFT TABLE	
ROLL-UP DOOR	2	3/20				1500	15	B	16		1300		2/20	1	DRAFT TABLE	
						1500	17	C	18		1300		2/20	1	DRAFT TABLE	
LIGHTS	1		170			19	A	20		1300		2/20	1	DRAFT TABLE		
LIGHTS	1		450			21	B	22		1300		2/20	1	DRAFT TABLE		
LIGHTS	1		1300			23	C	24		1300		2/20	1	DRAFT TABLE		
LIGHTS	1		1300			25	A	26		1300		2/20	1	DRAFT TABLE		
ACK1-FE	2	3/20				1100	27	B	28		1300		2/20	1	DRAFT TABLE	
						1100	29	C	30		1300		2/20	1	DRAFT TABLE	
						1100	31	A	32		1300		2/20	1	DRAFT TABLE	
ACK1	3	3/45				9200	33	B	34			1/20			SPARE	
						9200	35	C	36			1/20			SPARE	
SPARE		1/20				9200	37	A	38			1/20			SPARE	
SPARE		1/20				39	B	40				1/20			SPARE	
SPARE		1/20				41	C	42				1/20			SPARE	
SECTION SUB-TOTALS			3220	0	199746.8					0	20800	0	SECTION SUB-TOTALS			

CATEGORY	CONN. LOAD		DESIGN LOAD		C	SURFACE
	KVA	AMPS	DIV.	KVA		
LIGHTING:	3.2	3.9	1.25	4.0	4.8	
RECEPTACLE:	171.7	206.8	0.53	30.9	109.4	
NOTES:	48.8	58.8	1.00	48.8	58.8	
SPECIAL LOADS:	0.0	0.0	1.00	0.0	0.0	
ELECTRIC HEATING:	0.0	0.0	1.00	0.0	0.0	
WATER HEATING:	0.0	0.0	1.00	0.0	0.0	
EVS/EVCS:	0.0	0.0	1.25	0.0	0.0	
TOTAL:	223.8	269.5		143.7	173.0	

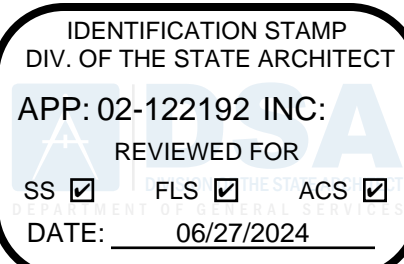
MOUNTING:	SURFACE	FEEDER NO.:
PHASE/WIRE:	3/4	
MAINS SIZE	400 AMPS	
MAINS TYPE	MCB	
BUSB TYPE	COPPER	
BRKR TYPE	BOLT-IN	
A.I.C. (RMS):	42,000	
A Phase	Connected Kva	
B Phase	75.3 Connected Kva	
C Phase	73.4 Connected Kva	

REMARKS:
FEEDER NO.:
1 = 2#12, #12G - 1/2"C
2 = 3 #12, #12G - 1/2"C
3 = 3 #6, #10G - 1/4"C

- RENOVATION KEY NOTES:**
1. PROVIDE NEW TWO 3" C FROM THE J-BOX TO THE LOCATION OF NEW PANEL 'MDD'.
 2. RECONNECT GROUND BAR OF NEW PANEL 'MDD' TO THE EXISTING BUILDING GROUNDING ELECTRODE SYSTEM. PROVIDE CONNECTION TO ALL POSSIBLE POINTS OF CONNECTION TO MATCH THE EXISTING CONDITION PRIOR TO DEMOLITION. SEE KEY NOTE 5 IN THE DEMOLITION ONE-LINE DIAGRAM.

- DEMOLITION KEY NOTES:**

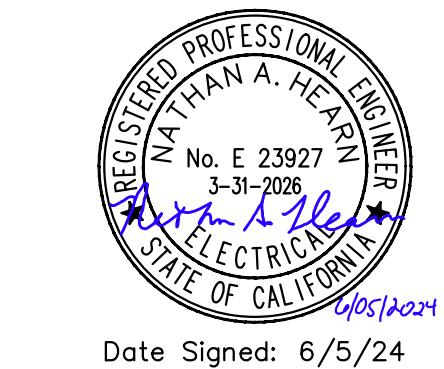
 1. DISCONNECT AND REMOVE EXISTING 400A 3P FEEDER BREAKER TO MAKE SPACE FOR THE NEW GDA 3P.
 2. REMOVE EXISTING CONDUCTORS IN THE EXISTING TWO AN 3" C.
 3. INTERCEPT EXISTING TWO 3" C AND TERMINATE IF IT IN AN ACCESSIBLE J-BOX SIZED PER NEC 314.28(A). SEE RENOVATION ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
 4. DISCONNECT AND REMOVE THE EXISTING FEEDER FROM EXISTING PANEL 'DD' TO THE ACCESSIBLE J-BOX.
 5. DISCONNECT AND REMOVE EXISTING GROUNDING ELECTRODE CONDUCTOR FROM THE EXISTING PANEL 'DD' TO THE BUILDING GROUNDING ELECTRODE SYSTEM. FIELD VERIFY ALL POINTS OF CONNECTION FOR THE GROUNDING SYSTEM.



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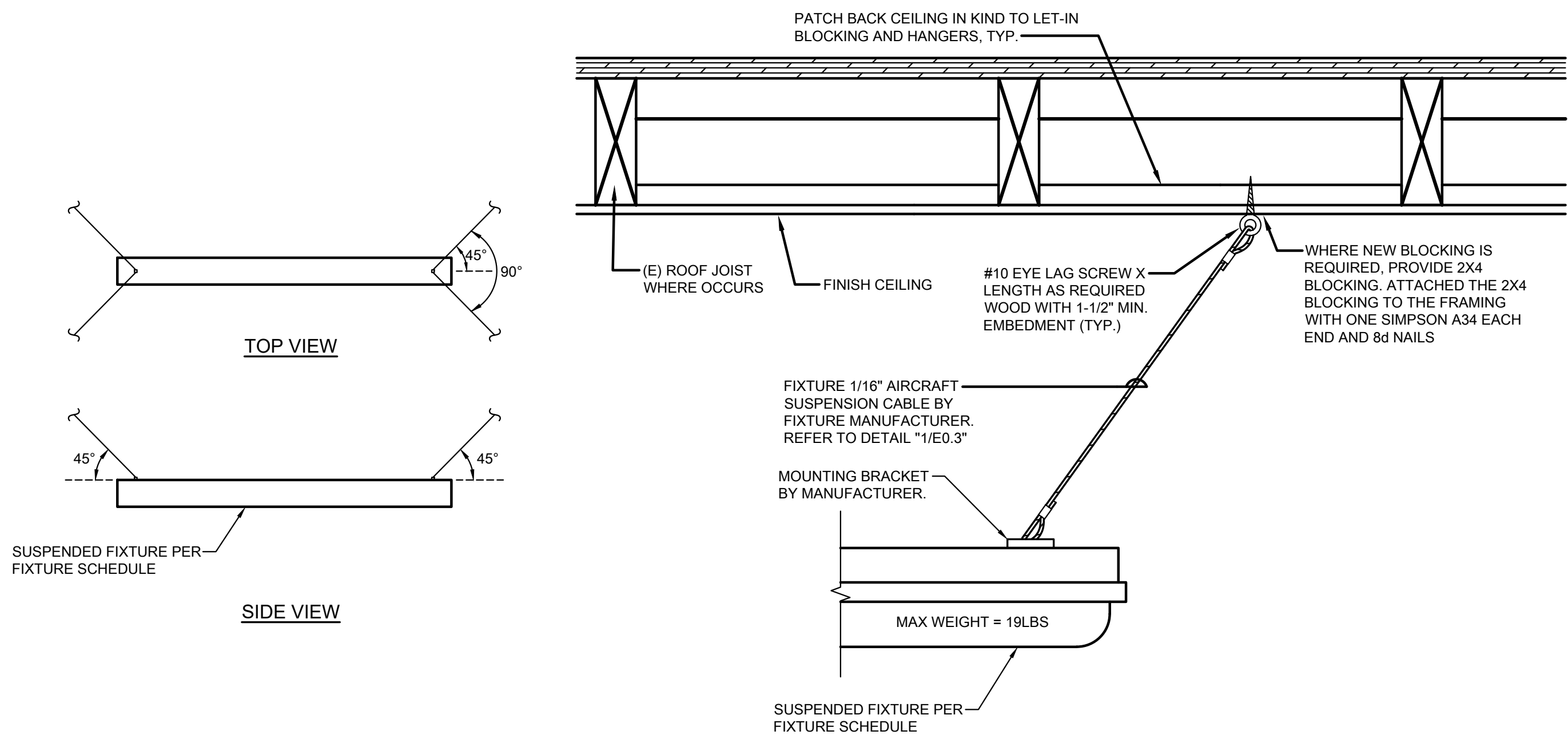
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PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

ELECTRICAL ONE-LINE DIAGRAM

E0.2

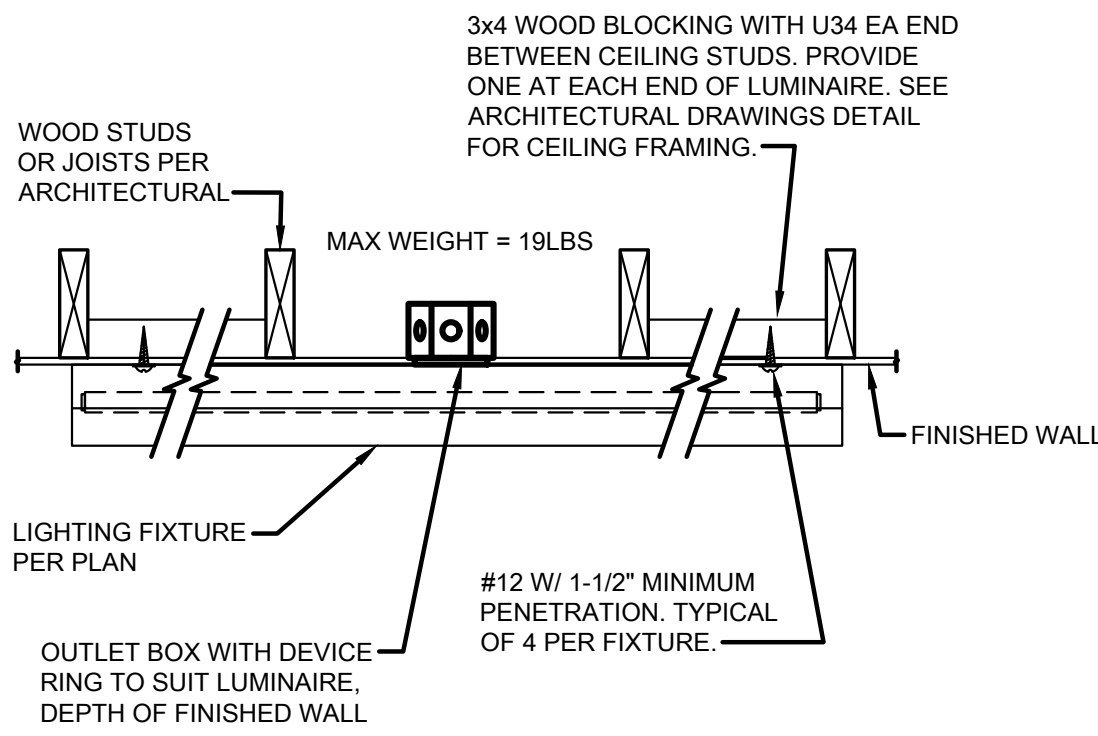


SEISMIC BRACING DETAILS

SCALE : NTS

3

E0.3

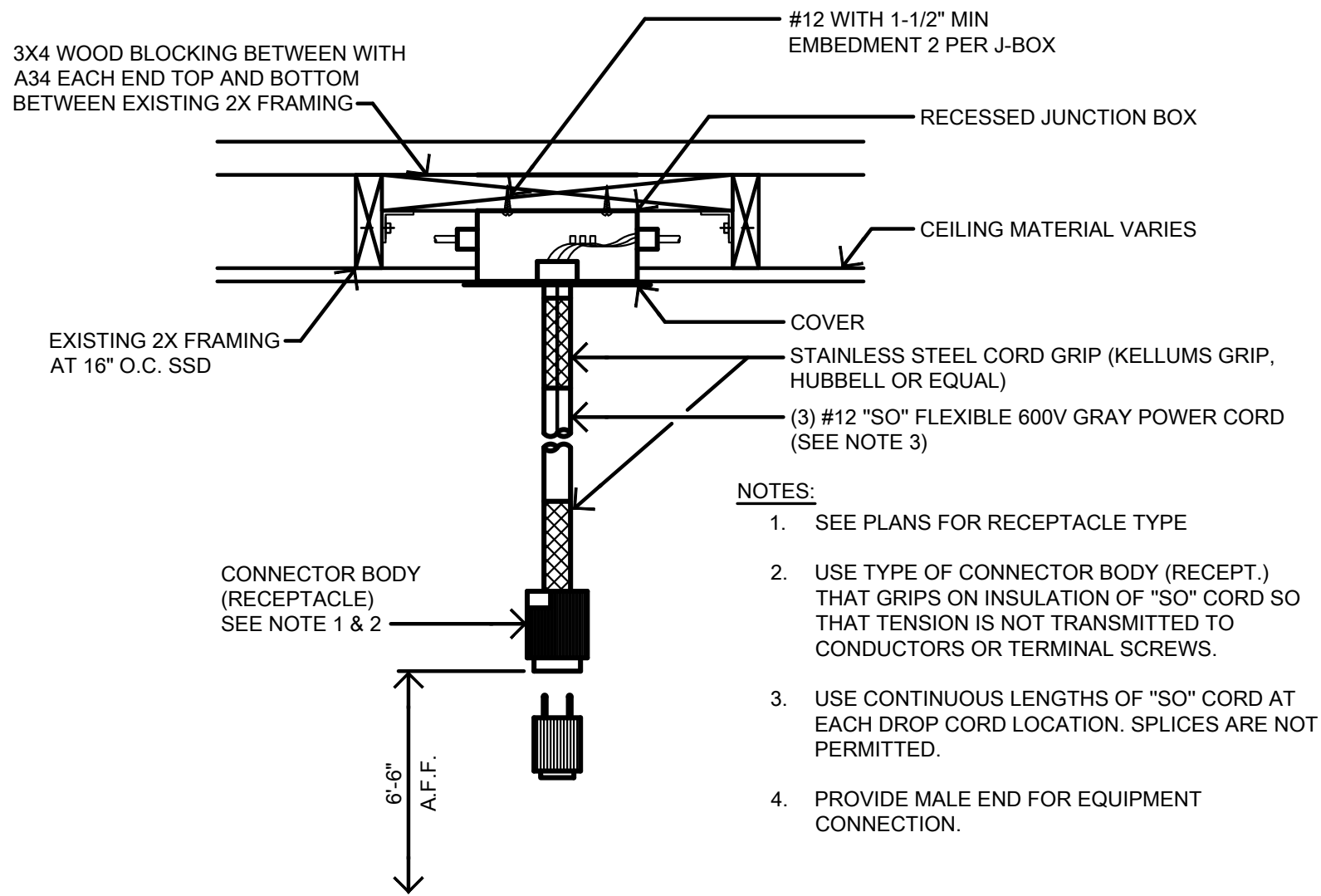


SURFACE LIGHT FIXTURE MOUNTING DETAIL (WOOD STUD)

SCALE : NTS

6

E0.3

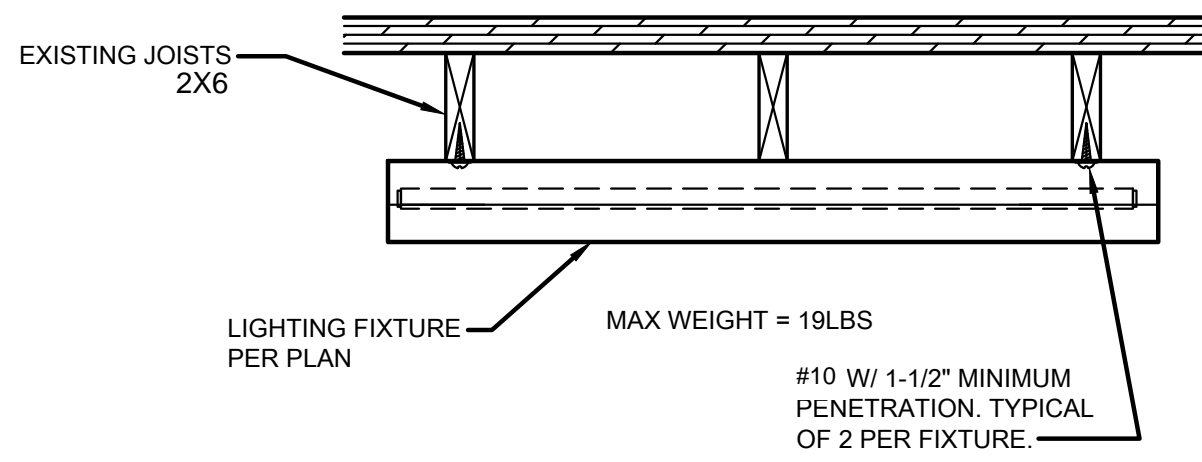


ELECTRICAL DROP CORD DETAIL

SCALE : NTS

4

E0.3

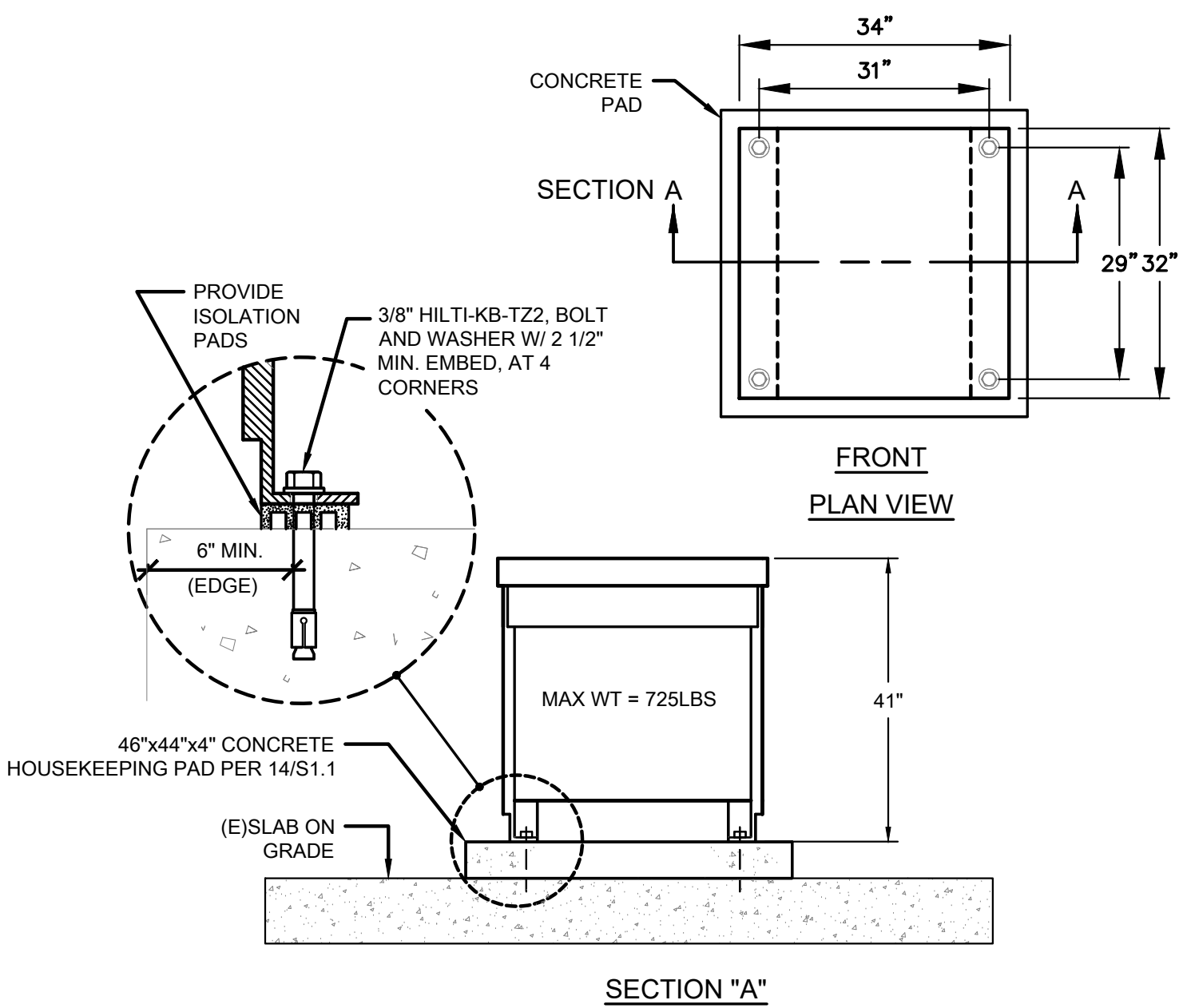


SURFACE LIGHT FIXTURE MOUNTING DETAIL (WOOD JOIST)

SCALE : NTS

7

E0.3

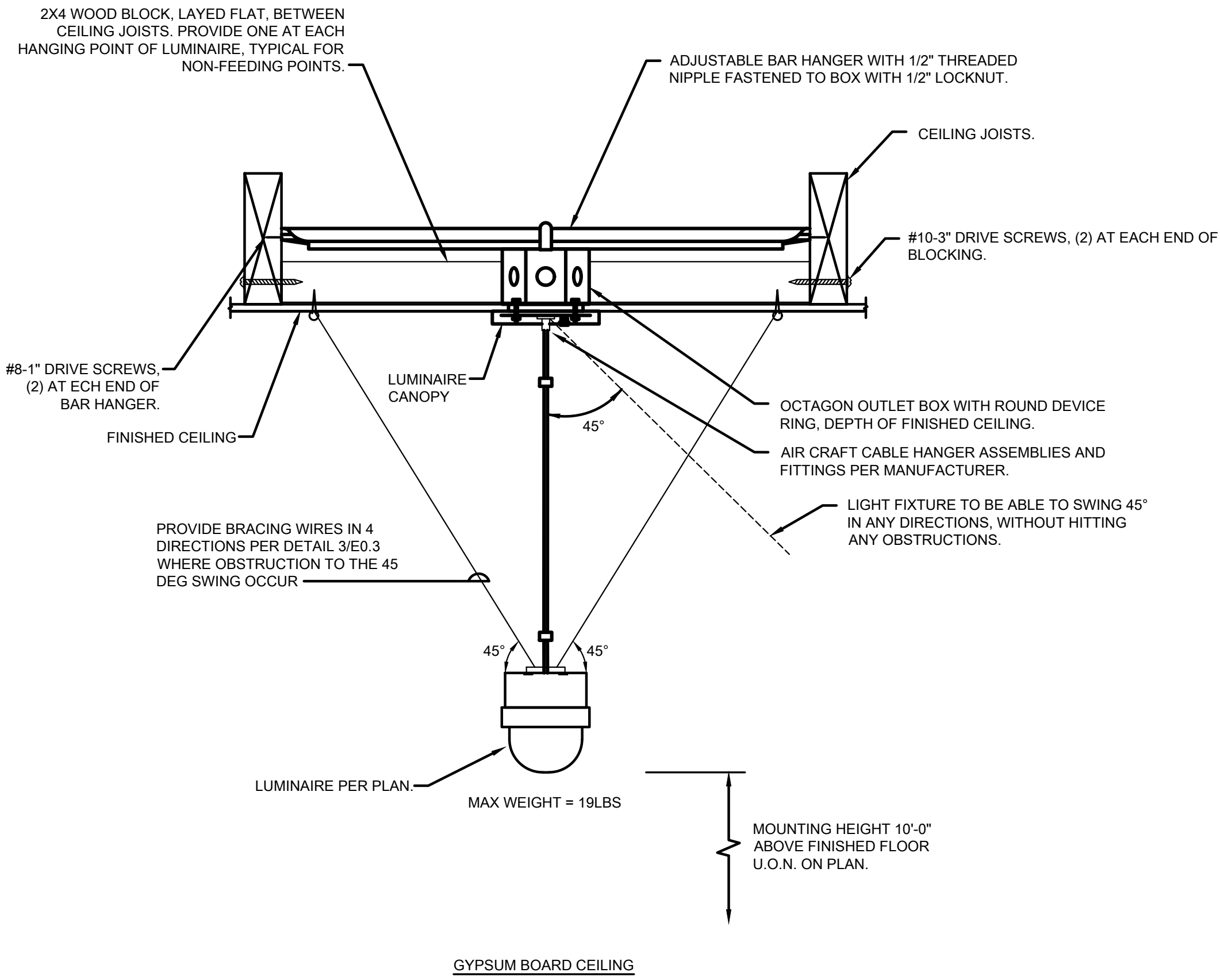


TRANSFORMER MOUNTING DETAIL

SCALE : NTS

5

E0.3



SUSPENDED LIGHTING FIXTURE MOUNTING DETAIL

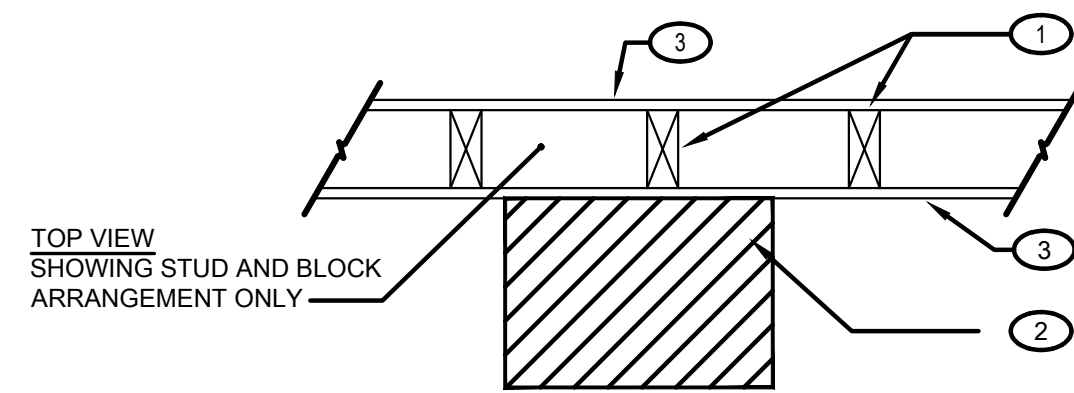
SCALE : NTS

1

E0.3

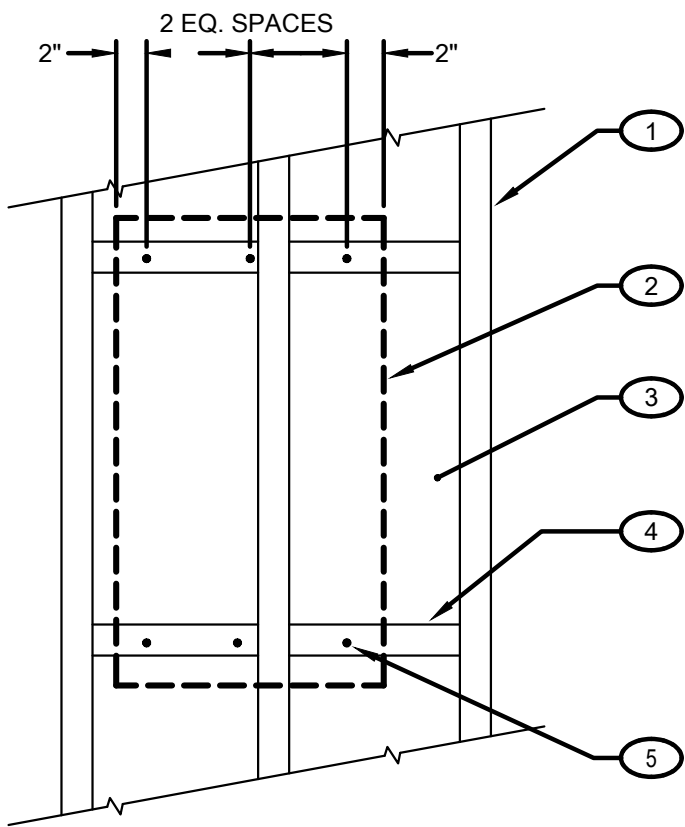
KEY NOTES

- EXISTING 2X WOOD STUDS AT 16" ON CENTER.
- SURFACE MOUNTED PANEL, SEE NOTE #1
- SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS)
- 4X8 WOOD BLOCKING WITH A34 FRAMING ANGLE EACH END TOP AND BOTTOM
- 5/16" X 2 1/2" LAG SCREWS (BY ELECTRICAL CONTRACTOR)



NOTES:

- USE FENDER WASHER ON ALL SCREWS.
- REGULAR PANELS 150# MAX. ISOLATION PANELS 225# MAX. FACP, REMOTE ANNUNCIATORS, POWER SUPPLY PANEL 49# MAX.
- MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO 30 CIRCUIT PANELBOARD.
- CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = ±50".
- PANELBOARD DIMENSION IS 20"WIDE X 6"DEEP X 50" HIGH

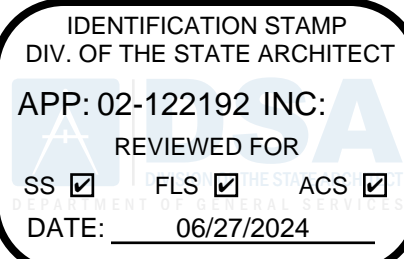


SURFACE PANEL MOUNTING DETAIL

SCALE : NTS

2

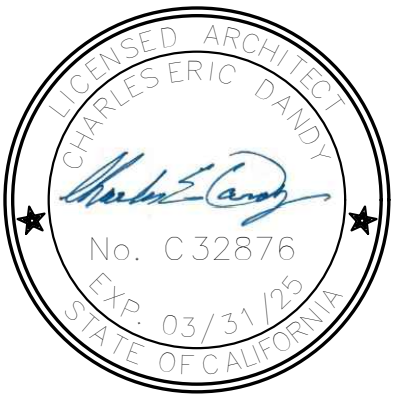
E0.3



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STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

No.	Description	Date
1	Revision 1	Date 1

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

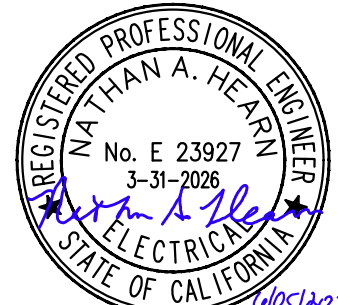
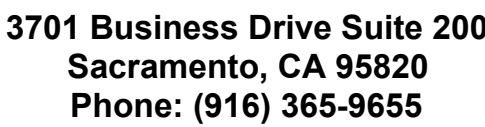
ELECTRICAL DETAILS

E0.3

RENOVATION KEY NOTES:

1. SEE ONE-LINE DIAGRAM FOR EXACT SCOPE OF WORK

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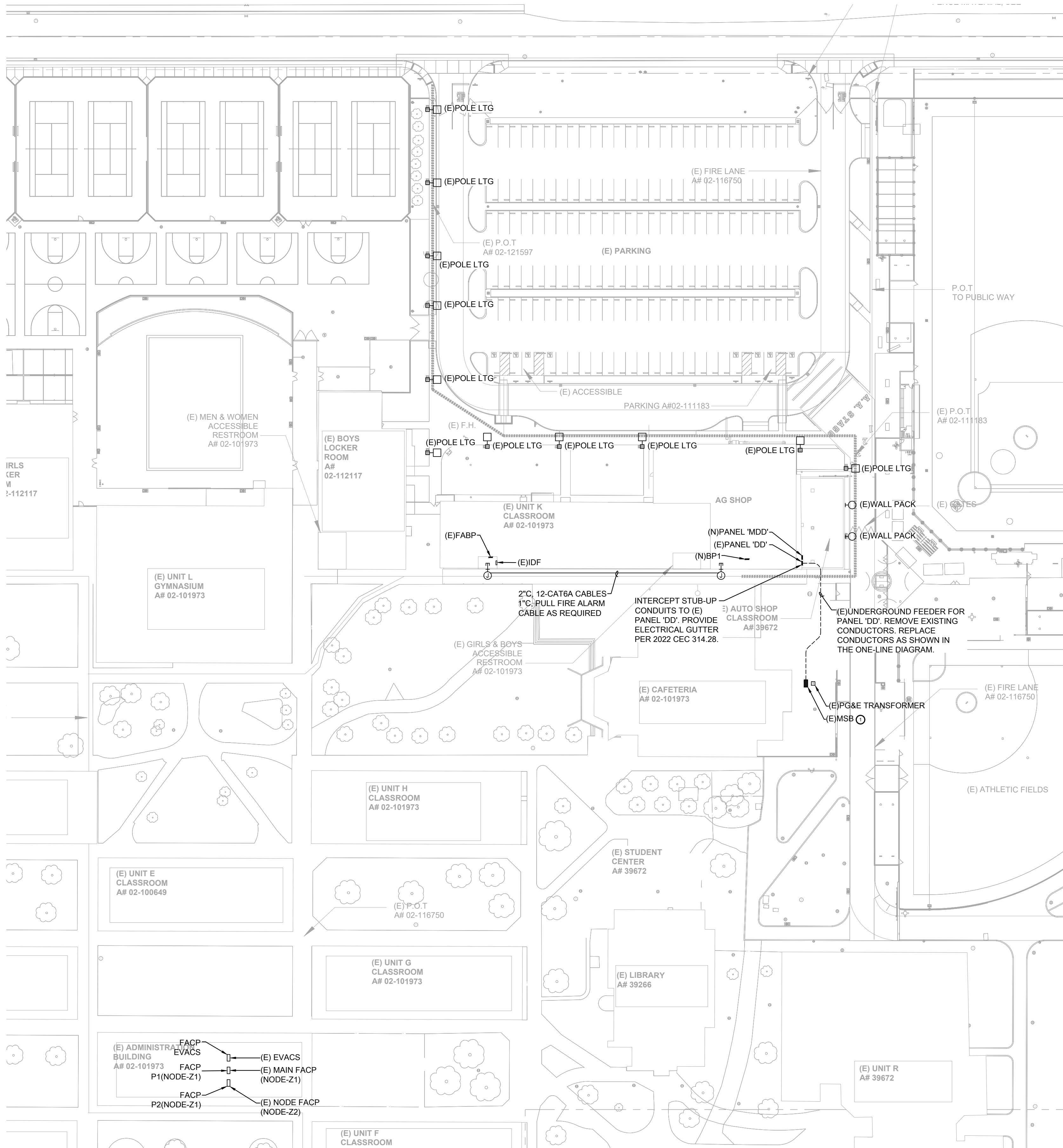
REVISIONS

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

ELECTRICAL SITE PLAN

E1.0




ELECTRICAL SITE PLAN

SCALE : 1" = 50'-0"

1
E1.0

DEMOLITION KEY NOTES:

1. REMOVE EXISTING ABOVE COUNTER DUPLEX RECEPTACLES AND COVER PLATES. PROTECT-IN-PLACE EXISTING ROUGH-IN AND BRANCH CIRCUIT WIRING TO BE REUSED. REFER TO RENOVATION PLAN FOR MORE INFORMATION.
2. DISCONNECT POWER TO JEAIR COMPRESSOR CONTROL PANEL. REMOVE BRANCH CIRCUIT CONDUIT AND WIRING UP TO THE WALL MOUNTED PULLBOX. REFER TO PLUMBING DRAWINGS FOR MORE INFO.
3. EXISTING RECEPTACLES TO REMAIN.



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engineering
RANCHO CORDOVA, CALIFORNIA
NH-JG 232073.00
PM - DESIGN TEAM PROJECT NO.



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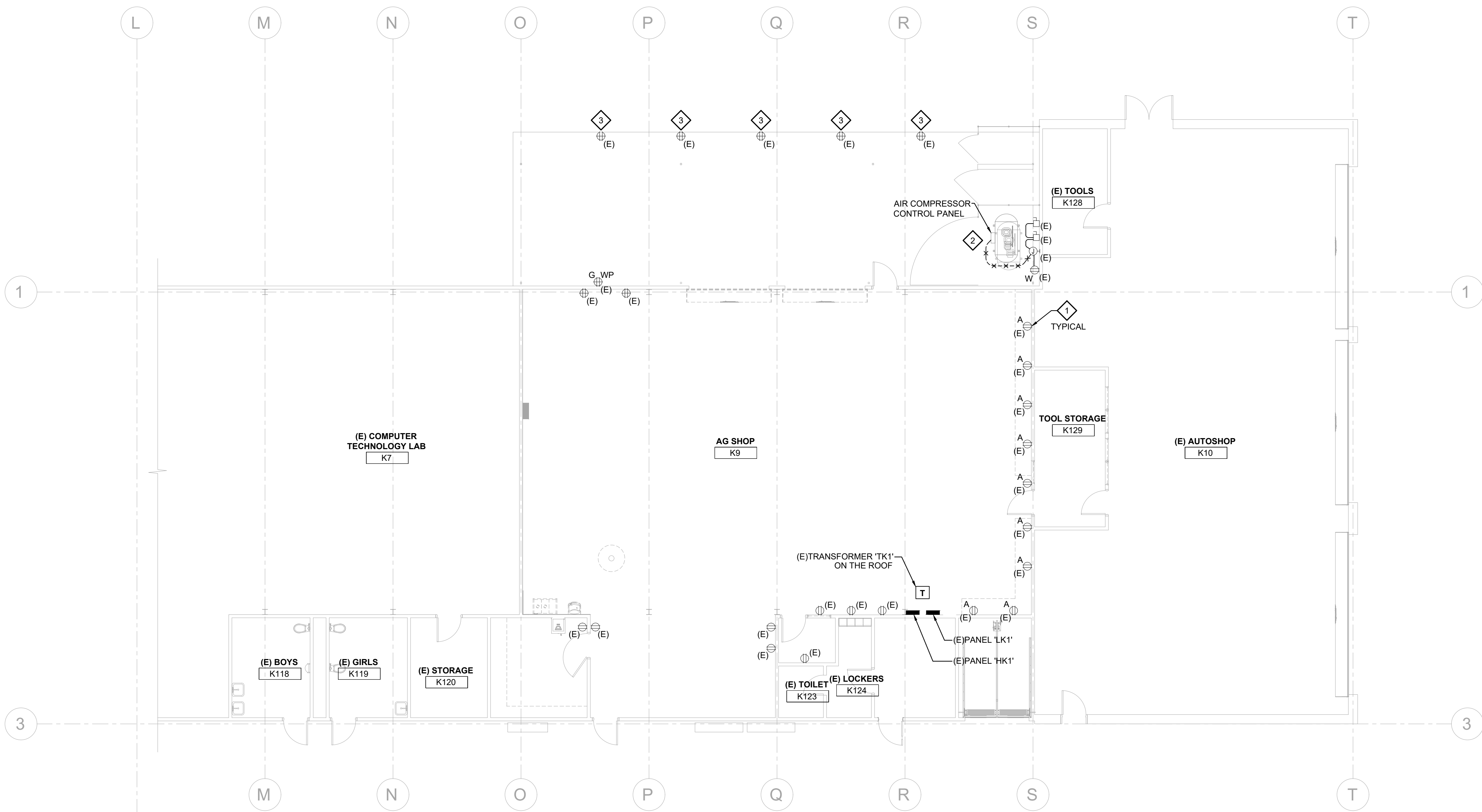
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CONSTRUCTION DOCUMENTS

ELECTRICAL DEMO POWER FLOOR PLAN

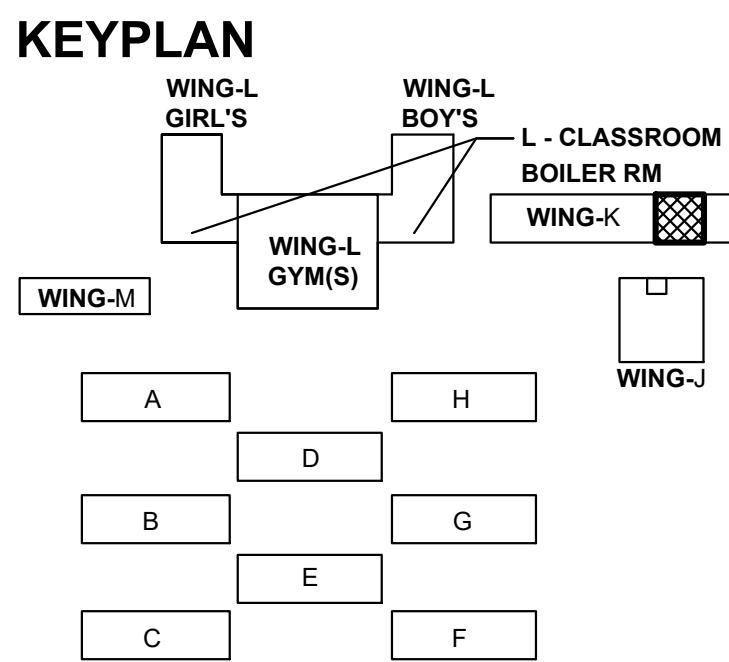
E2.0



ELECTRICAL DEMO POWER FLOOR PLAN

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

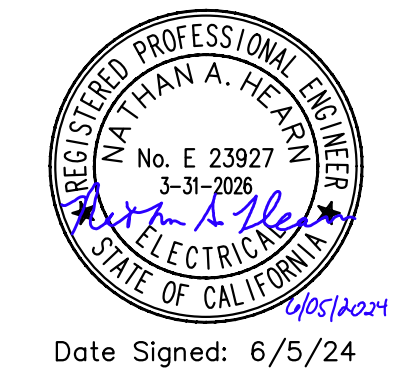
1
E2.0



RENOVATION KEY NOTES:

1. PROVIDE NEW ABOVE COUNTER DUPLEX RECEPTACLE AND COVER PLATES MOUNTED ON THE STAINLESS STEEL BACKSPLASH. RELIEVE PRESERVED ROUGH-IN AND BRANCH CIRCUIT WIRING. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.
2. PROVIDE NEW BRANCH CIRCUIT CONDUIT AND WIRING FROM THE AIR COMPRESSOR CONTROL PANEL TO THE WALL MOUNTED RELAY. MATCH EXISTING BRANCH CIRCUIT CONDUIT AND WIRING AND MATCH EXISTING ROUTING. REFER TO PLUMBING DRAWINGS FOR MORE INFO.
3. ON/OFF SWITCH TO BE PROVIDED BY CONTROLS CONTRACTOR TO BE INSTALLED BY DIV. 26.
4. ROUTE WIRING THROUGH CONTROLS RELAY. COORDINATE WITH DIV. 23.

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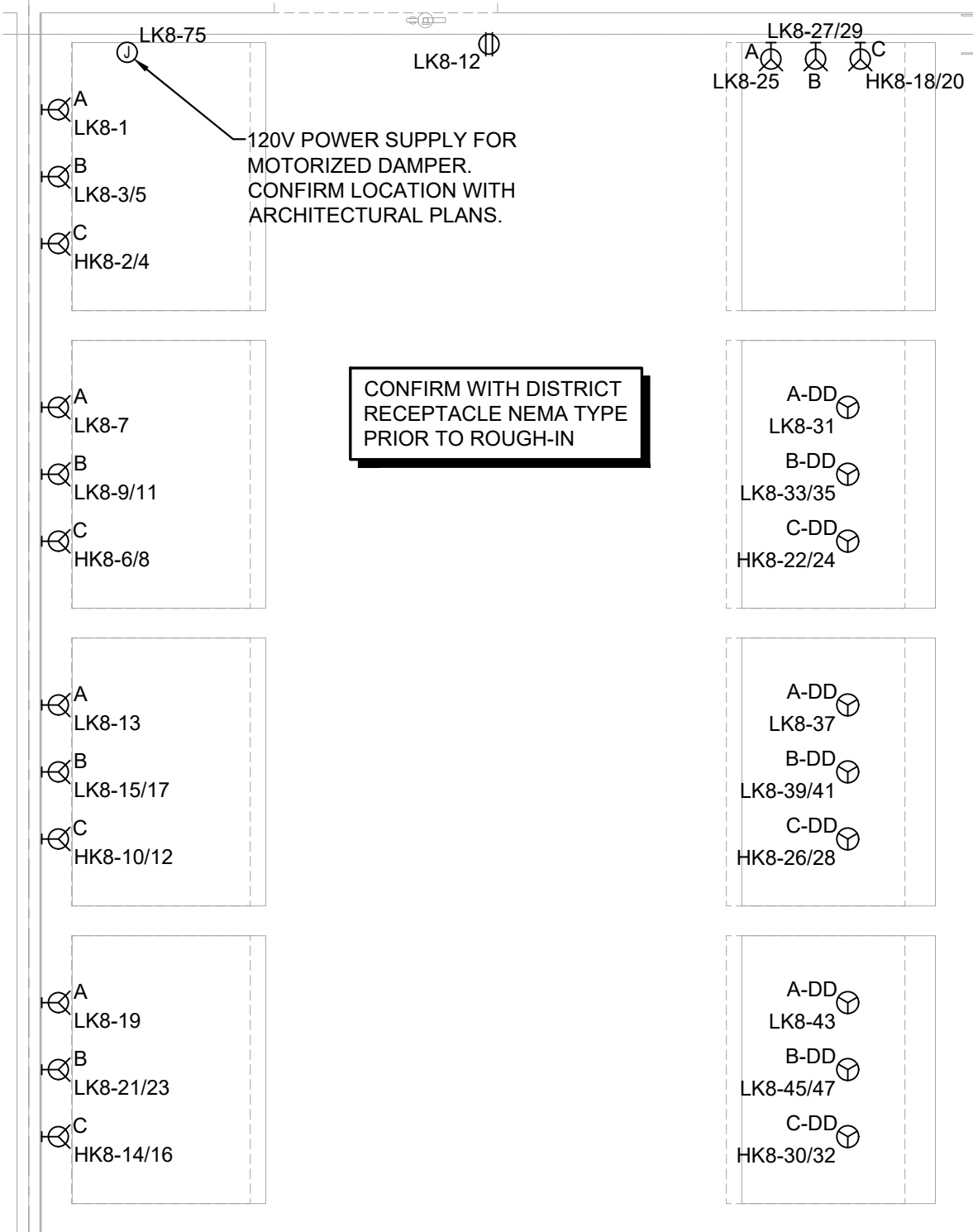
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CONSTRUCTION DOCUMENTS

ELECTRICAL POWER FLOOR PLAN

E2.1



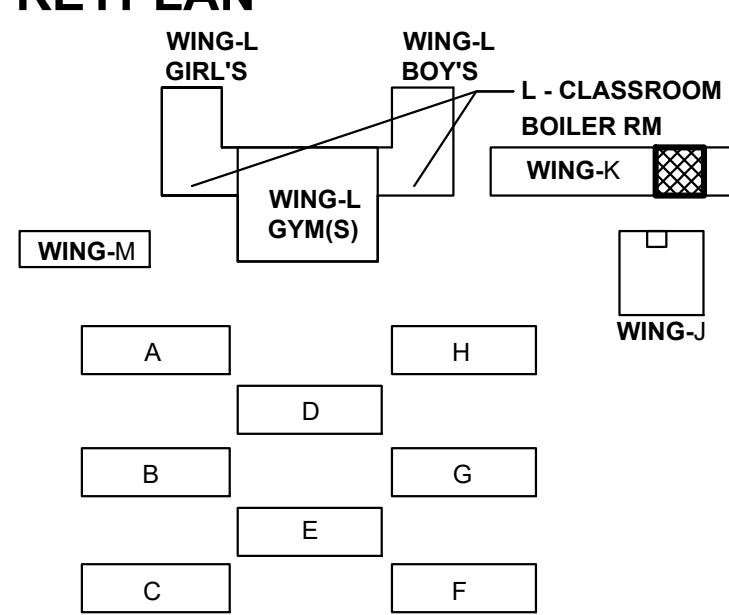
2
E2.1

SCALE : 3/8" = 1'-0"

1
E2.1

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

KEYPLAN



#	DEMOLITION KEY NOTES:
1.	DEMOLISH PORTION OF EXISTING CONDUIT.
2.	FUTURE SPLICE BOX TO BE PROVIDED IN THE RENOVATION PLAN, REFER TO E2.3 FOR MORE INFO.

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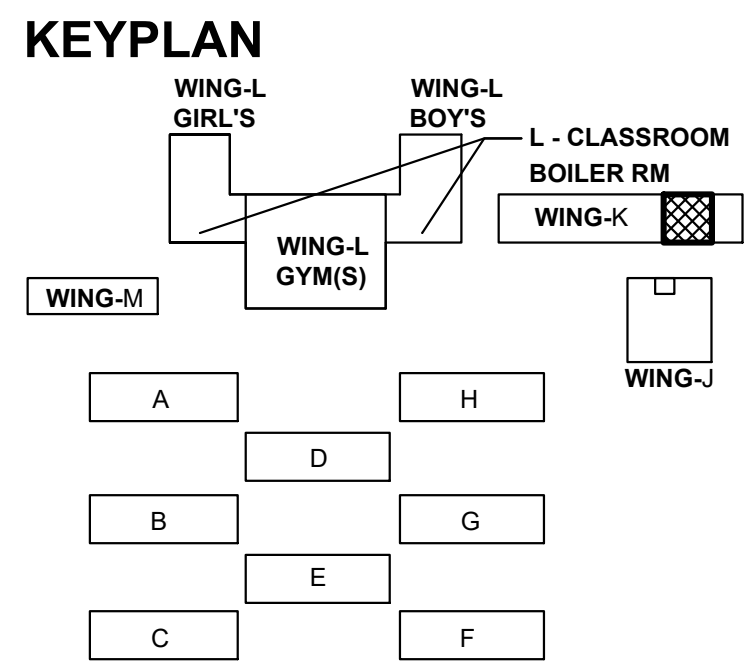
ELECTRICAL DEMO POWER ROOF PLAN

E2.2

ELECTRICAL DEMO POWER ROOF PLAN

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

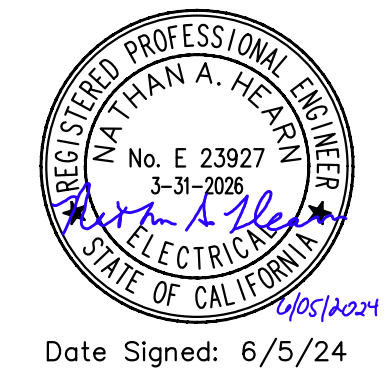
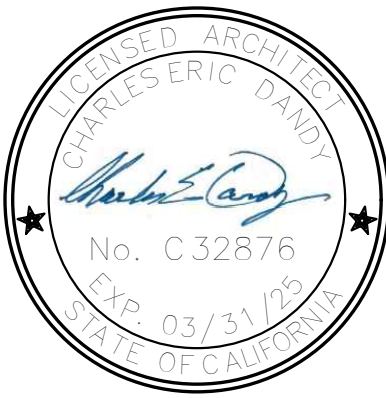
1
E2.2



RENOVATION KEY NOTES:

1. PROVIDE SPLICE BOX PER 2022 CEC 314.28. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING LOADS. FIELD VERIFY CONDUIT AND WIRING QUANTITY AND SIZE.
2. ROUTE WIRING THROUGH CONTROLS RELAY. COORDINATE WITH DIV. 23.

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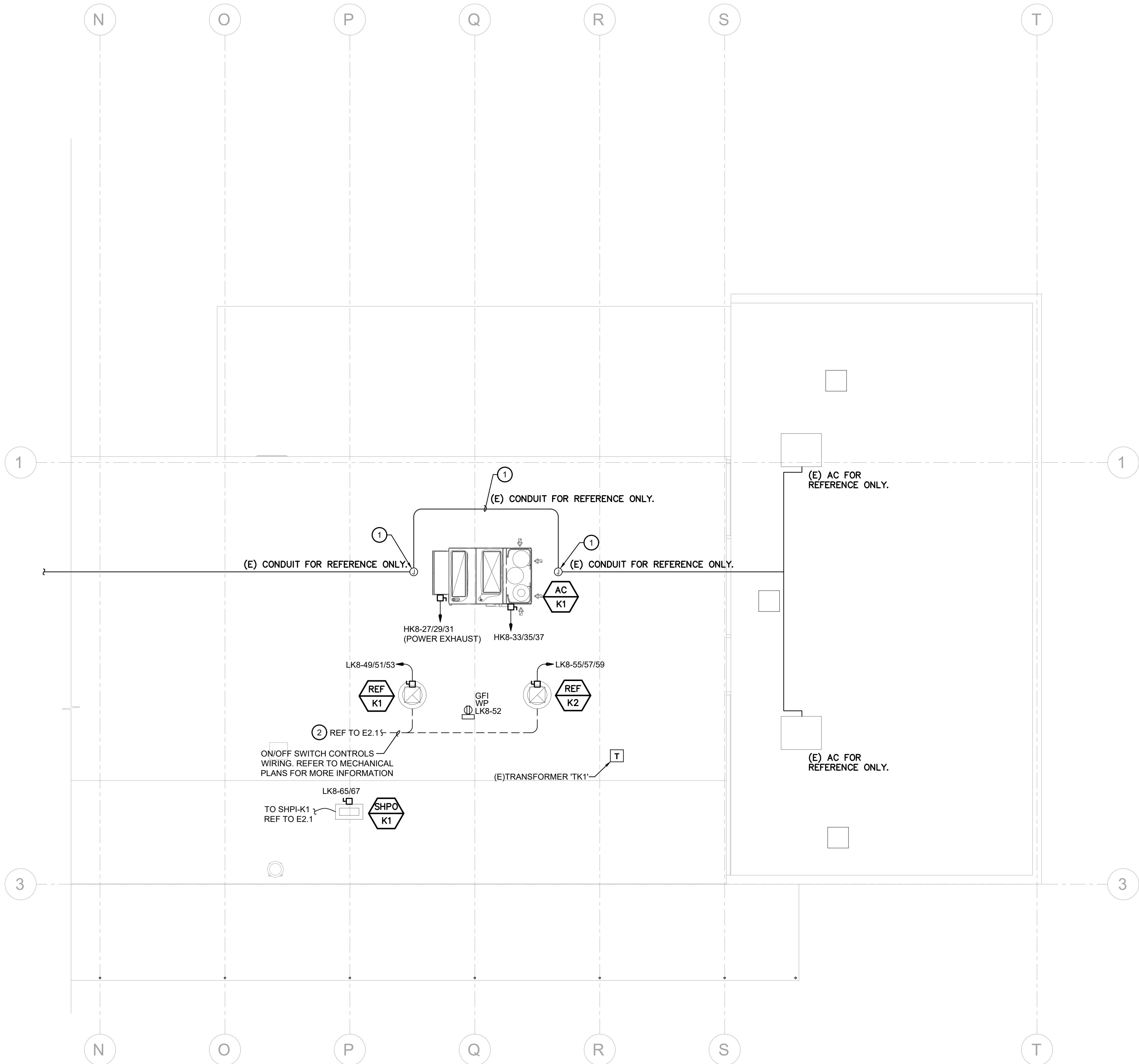
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ELECTRICAL POWER ROOF PLAN

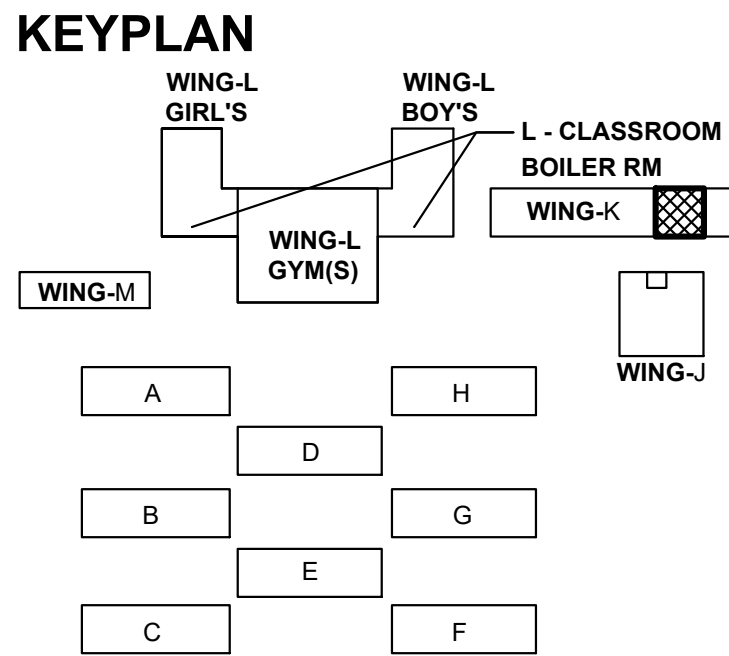
E2.3



ELECTRICAL POWER ROOF PLAN

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

1
E2.3



KEY NOTES:

1. DISCONNECT EXISTING LIGHTING FIXTURE AND ASSOCIATED LIGHTING CONTROLS. PRESERVE AND PROTECT IN PLACE EXISTING CIRCUIT AND MOUNTING HARDWARE FOR REUSE IN THE RENOVATION PLAN. SEE LIGHTING RENOVATION PLAN FOR MORE INFORMATION.

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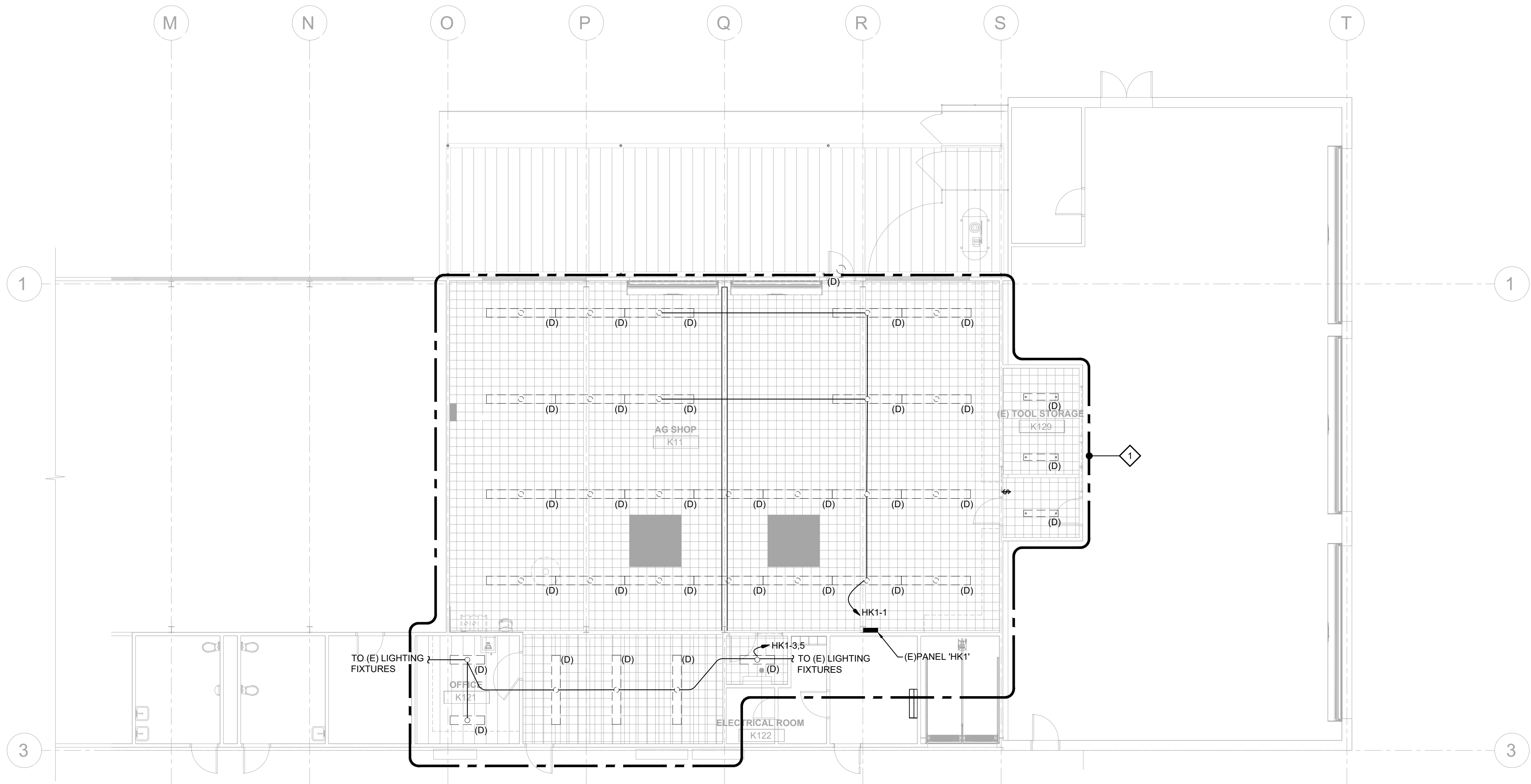
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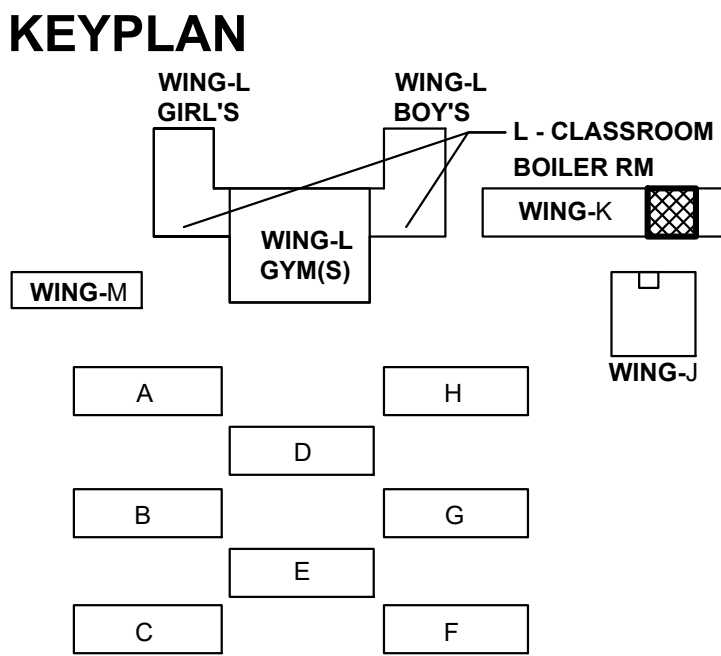
ELECTRICAL DEMO LIGHTING FLOOR PLAN

E3.0



ELECTRICAL DEMO LIGHTING FLOOR PLAN

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

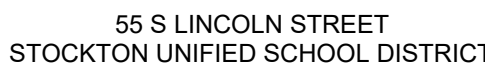
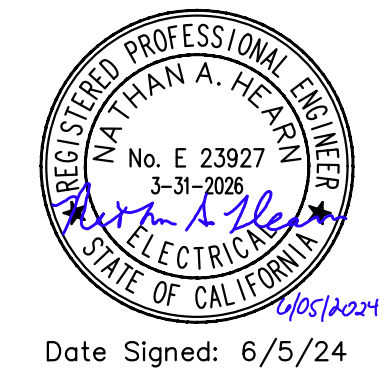
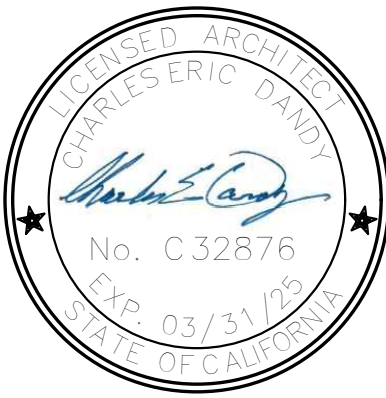
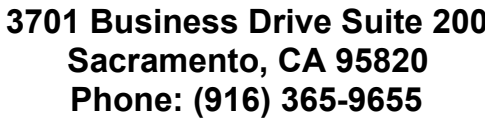


SHEET KEY NOTES:

1. PROVIDE UNSWITCHED HOT LEG TO THE LIGHTING FIXTURE FOR NORMAL POWER SENSING.

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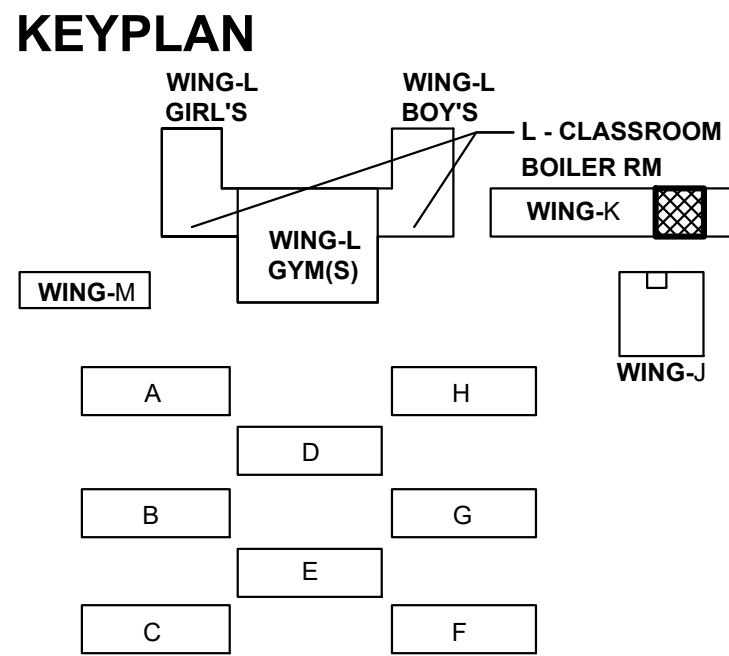
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CONSTRUCTION DOCUMENTS

ELECTRICAL LIGHTING FLOOR PLAN

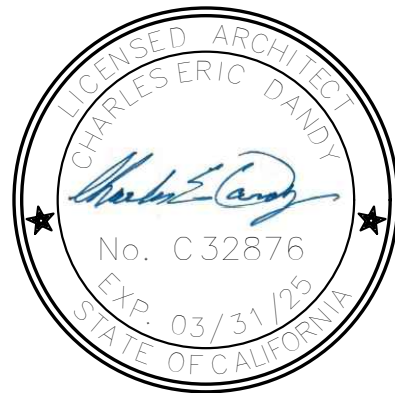
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[illegible]

PROJECT No.: 2023-014.0

CONSTRUCTION DOCUMENT

SIGNAL DEMO FLOOR PLAN

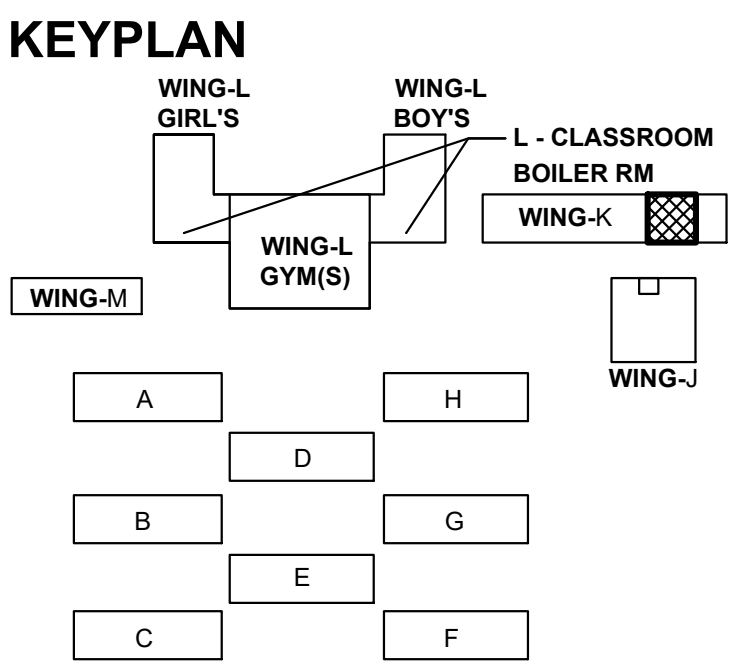
E4.0



SIGNAL DEMO FLOOR PLAN

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

1
E4.0



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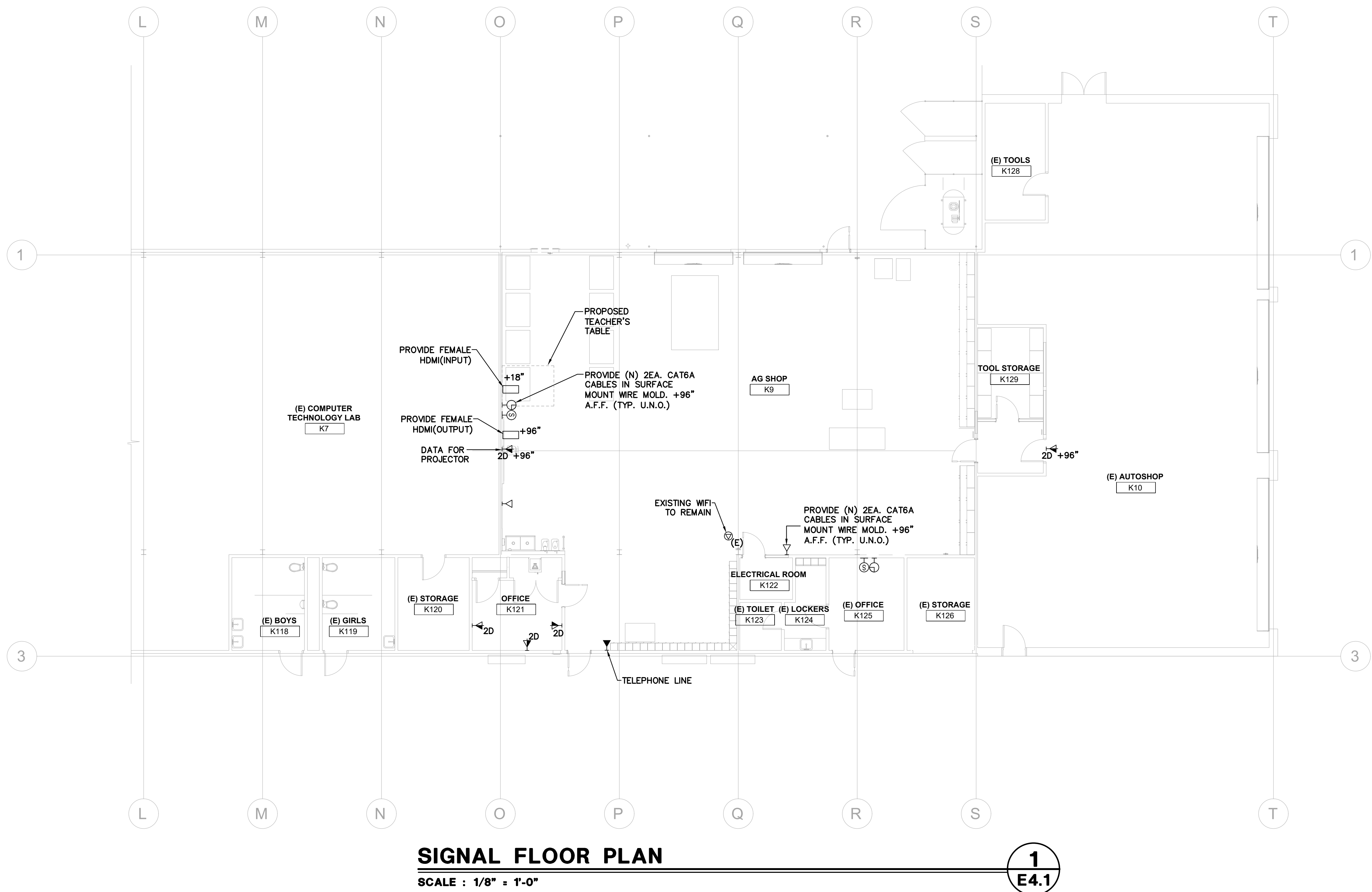
REVISIONS

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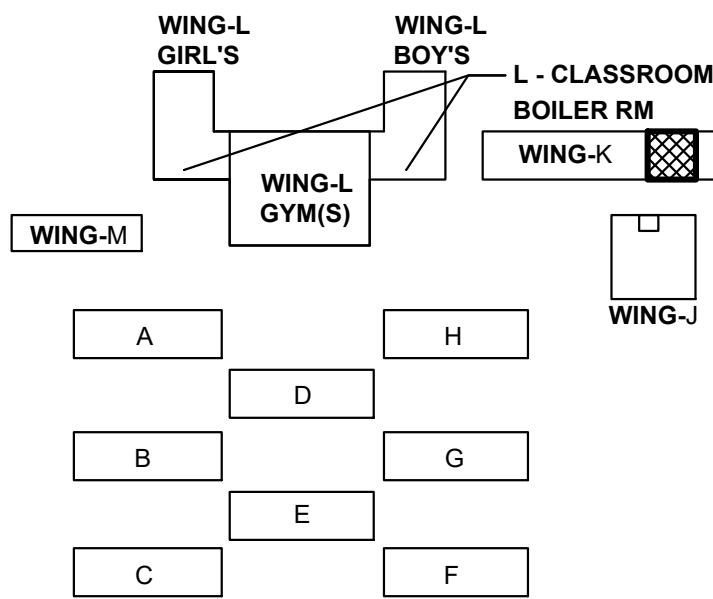
PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

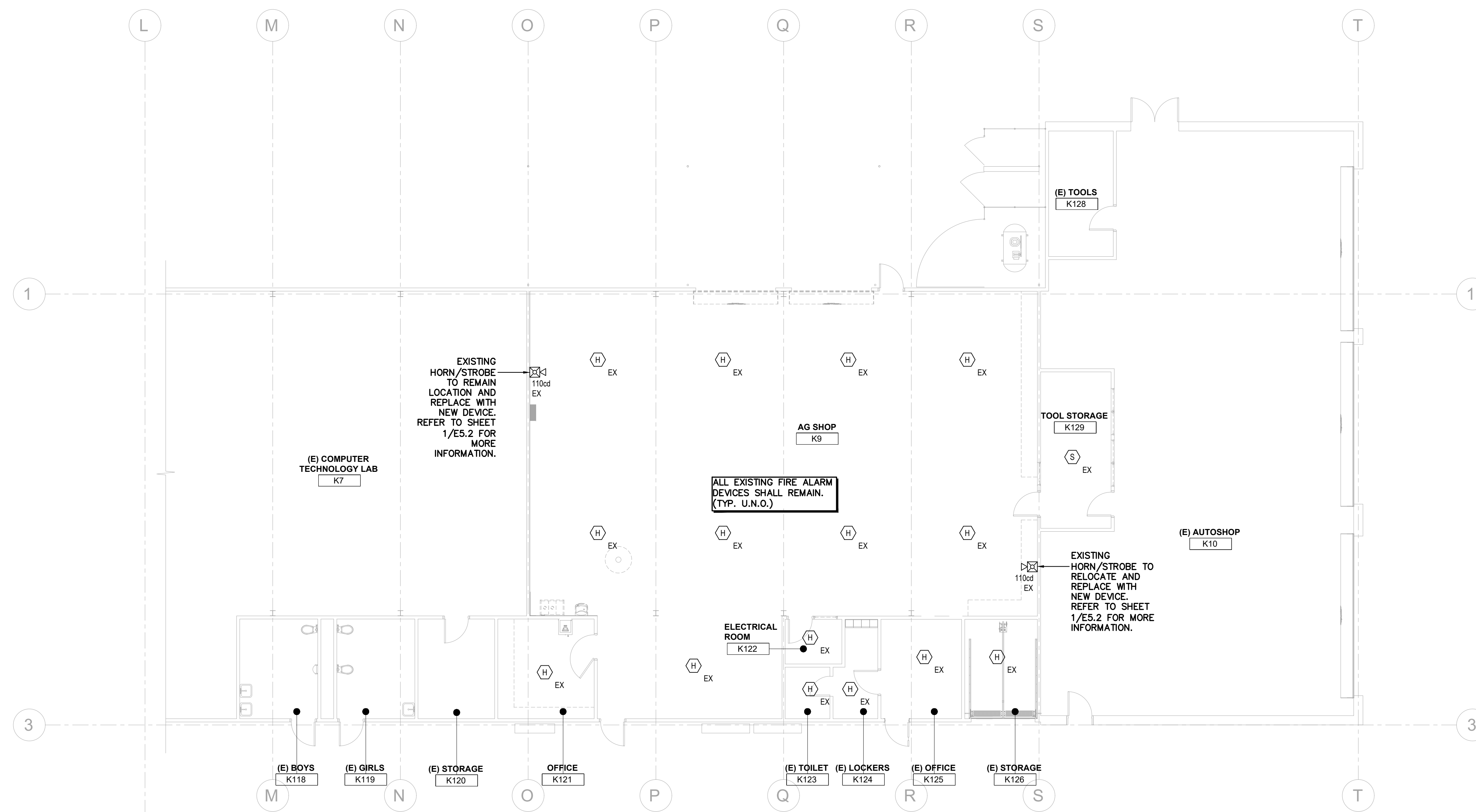
E4.1



KEYPLAN



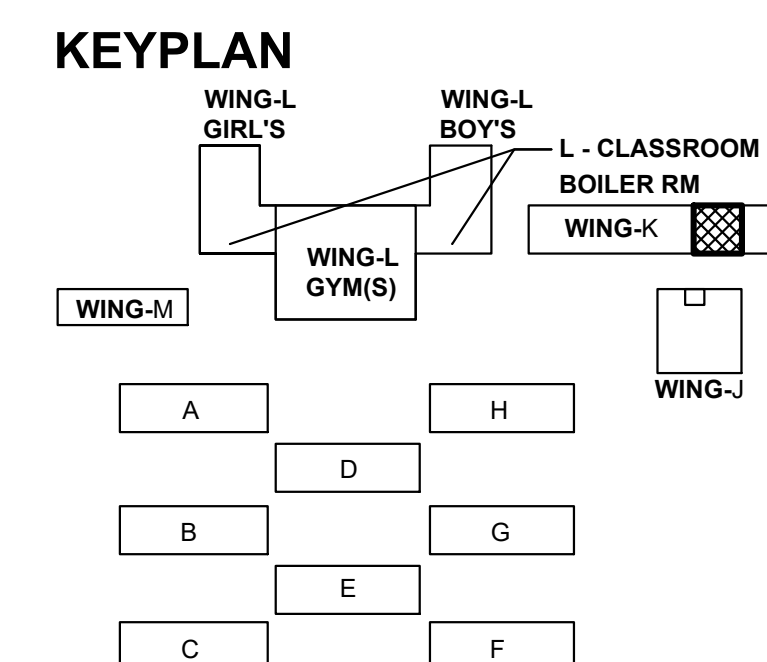
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INI	%



FIRE ALARM DEMO FLOOR PLAN

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

1
E5.0

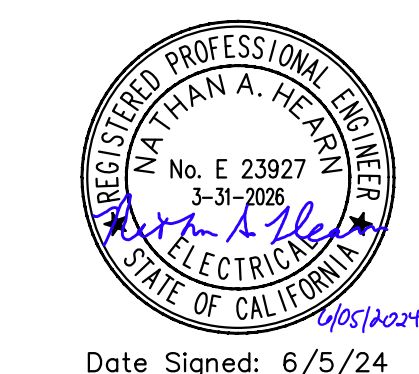
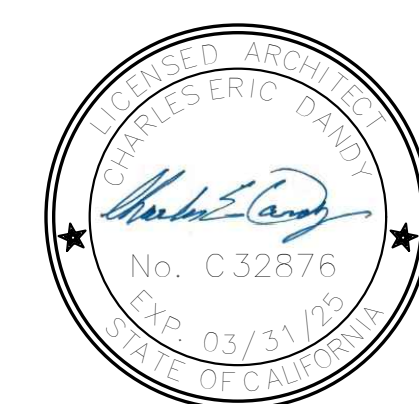


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55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

**STOCKTON UNIFIED SCHOOL
DISTRICT**

REVISIONS

[illegible]






PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

FIRE ALARM
DEMO FLOOR
PLAN

E5.0

QC	
INI	%


DEVICE LEGEND					
SYMBOL	QTY	MANUFACTURER	PART NO	DESCRIPTION	CSFM
	3	EDWARDS	(EX) EST3 MAIN FACP	(EX) FACP / W CPU, 4 DOORS, 4 NACS, 4 3-2A48 AMPLIFIERS, MIC, 3-CARB21	7165-1657.0186
	1	EDWARDS	BP310A	REMOTE BOOSTER POWER SUPPLY, 10A, 12VAC, RED	7300-1657.0229
	1	EDWARDS	SGA-CCS1S	SYNCHRONIZATION OUTPUT MODULE (STANDARD MOUNT)-ULULC LISTED	7300-1657.0121
	1	EDWARDS	SGA-OSD WISITA-SB4 BASE	INTELLIGENT OPTICAL SMOKE DETECTOR	7272-1657.0511
	2	EDWARDS	G44VRF	WALL HORN-STROBE, RED, FIRE	7125-1657.0504

SYSTEM INPUTS		SYSTEM OUTPUTS																REMARKS							
		PANEL ANNUNCIATION								NOTIFICATION				SAFETY CONTROL											
		ACTUATE GENERAL ALARM AUDIBLE NOTIFICATION		ACTUATE GENERAL ALARM VISUAL NOTIFICATION		ACTUATE SUPERVISORY ALARM SOUNDER IN PANEL		ACTUATE SMOKE & ARM VISUAL INDICATOR IN PANEL		ACTUATE SMOKE & ARM SOUNDER IN PANEL		ACTUATE FIRE ALARM VISUAL INDICATOR IN PANEL		TRANSMIT PANEL T/C TO DISPLAY		TRANSMIT GENERAL FIRE ALARM NOTIFICATION DEVICES				TRANSMIT SUPERVISORY SIGNAL TO REMOTE STATION		TRANSMIT PROBABLE SIGNAL TO REMOTE STATION		AUDIBLE SERVICE STROBES CONTINUE UNTIL SYSTEM RESET	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P								
1	ADDRESSABLE MANUAL PULL STATION(S)	●	●				●	●	●								1	EXISTING DEVICE IN ADMIN BUILDING							
2	ADDRESSABLE SMOKE DETECTOR(S)	●	●					●	●								2								
3																	3								
4	GROUND FAULT					●	●	●				●					4								
5	OPEN CIRCUIT					●	●	●				●					5								
6	NOTIFICATION CIRCUIT TROUBLE					●	●	●				●					6								
7	FIRE ALARM PANEL LOW BATTERY					●	●	●				●					7								
8	FIRE ALARM PANEL AC POWER FAILURE					●	●	●				●					8								
9	FIRE ALARM PANEL COMMUNICATION LINE FAULT					●	●	●				●					9								
10																	10								
11	FIRE ALARM PANEL SILENCE FEATURE															●	11								
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P								

SEQUENCE OF OPERATIONS

SCALE : NTS

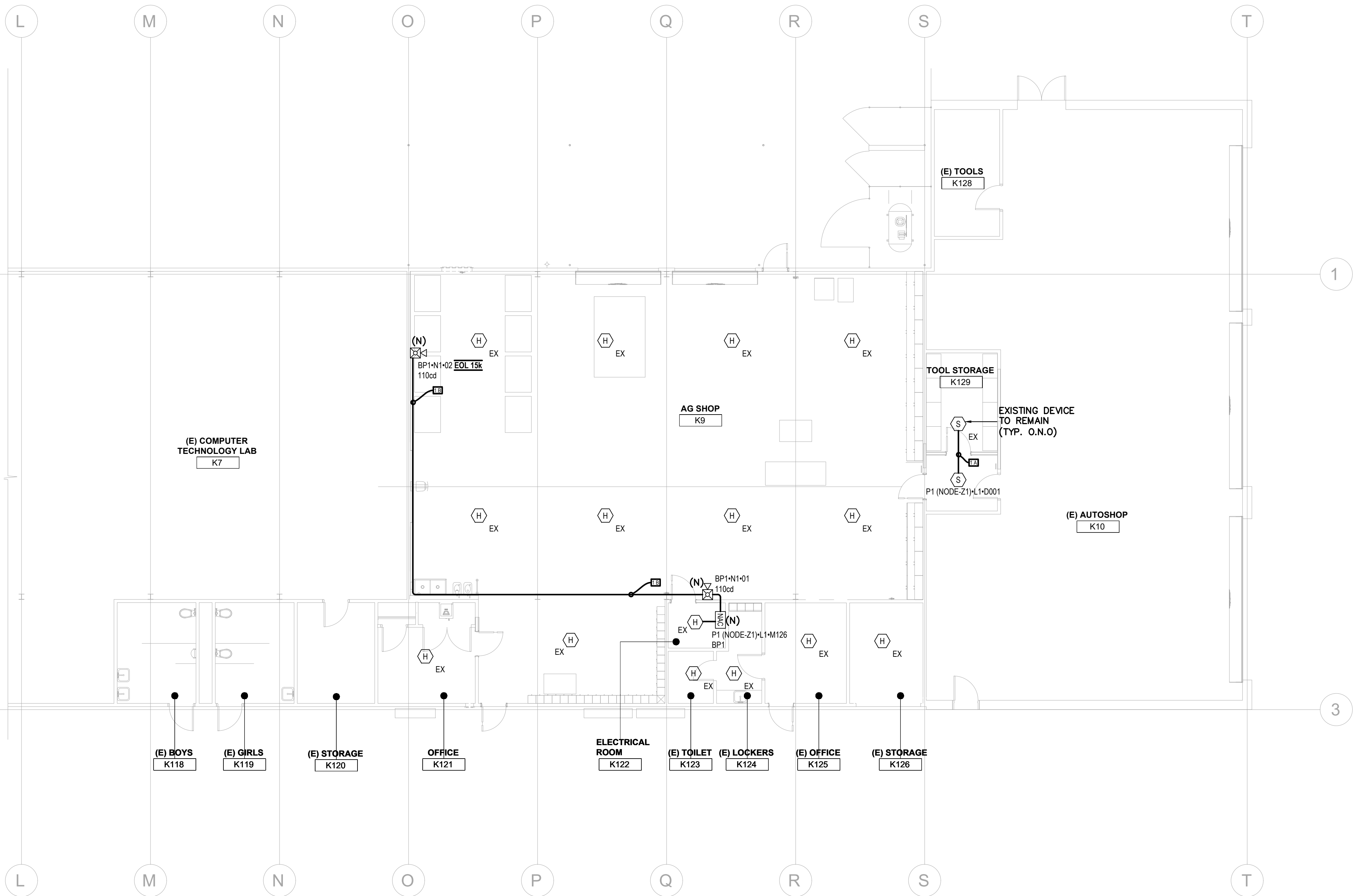
PANEL P1 (NODE-Z1) (EST'S MAIN FACP) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)									
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)			
	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL		
PANEL COMPONENTS	1	3-ASU4	Audio Source Unit w/ 4 Rail Spacers	0.08	0.08	0.08	0.08		
	1	3-CPU3	Central Processor Module	0.155	0.155	0.165	0.165		
	1	3-LCD	Liquid Crystal Display Module	0.04	0.04	0.042	0.042		
	1	3-RS232	RS232 Communication Card	0.058	0.058	0.058	0.058		
	1	3-RS485A	Network Communication Card, Class A	0.098	0.098	0.098	0.098		
	1	3-SDDC1	Dual Signature Driver Controller. Comes with two 3-SDDC1s. Mounts to Local Rail	0.264	0.264	0.336	0.336		
CIRCUIT	SYMBOL	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
P1 (NODE-Z1)+1		1	3SKA-GSD w/3SKA-SB4 BASE	Intelligent Local Smoke Detector	0.00032	0.00032	0.00045	0.00045	
					TOTAL STANDBY (A)	0.696032	TOTAL ALARM (A)		0.779645
					REQUIRED STANDBY TIME = 24 HOURS				
					REQUIRED ALARM TIME = 5 MINUTES				
SECONDARY STANDBY LOAD (A)				0.695032	24	16.68			
SECONDARY ALARM LOAD (A)				0.779645	0.08	0.06			
STANDBY AND ALARM SUBTOTAL (AMP HOURS)						16.75			
DERATING FACTOR						1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)						20.93			
PROVIDE (2) 12V 65AH BATTERIES									
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.									

PANEL BP1 (BPS10A) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)									
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)			
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
		1	BPS10A Mainboard	Mainboard for BPS10A assembly	0.07	0.07	0.27	0.27	
CIRCUIT	SYMBOL	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
BP1A1		2	GA4VRF	Wall horn-strobe, red, FIRE 110cd	0	0	0.05	0.1	
					TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	0.37	
					REQUIRED STANDBY TIME = 24 HOURS				
					REQUIRED ALARM TIME = 5 MINUTES				
SECONDARY STANDBY LOAD (A)					0.07	24	1.68		
SECONDARY ALARM LOAD (A)					0.37	0.08	0.03		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)							1.71		
DERATING FACTOR							1.25		
SECONDARY LOAD REQUIREMENTS (AMP HOURS)							2.14		
PROVIDE (2) 12V 7AH BATTERIES									

BP1 N1 POINT-TO-POINT REPORT							CIRCUIT SETTINGS		TOTALS	
							Starting Calculation Voltage:	19.7	Max. Voltage Drop:	0.02
							Min. Operational Voltage:	16	End Of Line Voltage:	19.68
							Max. Circuit Current (A):	3	Voltage Drop Percent:	0.12 %
							Wire Resistance (Ω/Kft):	3.07	Total Circuit Current (A):	0.1
							Total Circuit Length (ft):	75	Spare Current (A):	2.9
Circuit Wiring Properties: 'B' 14/2 FLPL 14 AWG, 2 Cond. Solid Copper FLPL Analog Unshielded							Total Circuit Resistance (Ω):	0.45966	Spare Current (A) Percent:	96.67 %
Distance measured using drawn segment lengths with 10.00 % additional length calculated										
Device Label	Part No.	Description	Device Current (A)	Remaining Current (A)	Dist. From Previous (ft)	Resistance From Previous (Ω)	Voltage Drop From Previous	Voltage At Device	Total Voltage Drop	Voltage Drop Percent
BP1N1+01	G4AVRF	Wall form-strobe, red, FIRE 110gpd	0.05	0.1	3	0.019838	0	19.7	0	0.01 %
BP1N1+02 EOL 15k	G4AVRF	Wall form-strobe, red, FIRE 110gpd	0.05	0.05	72	0.439822	0.02	19.68	0.02	0.12 %
Calculation Methods: Resistance From Previous (Ω) = Wire Resistance (Ω/Ft) x 2 x Dist. From Previous (ft) Voltage Drop From Previous = Resistance From Previous (Ω) x Remaining Current (A)										

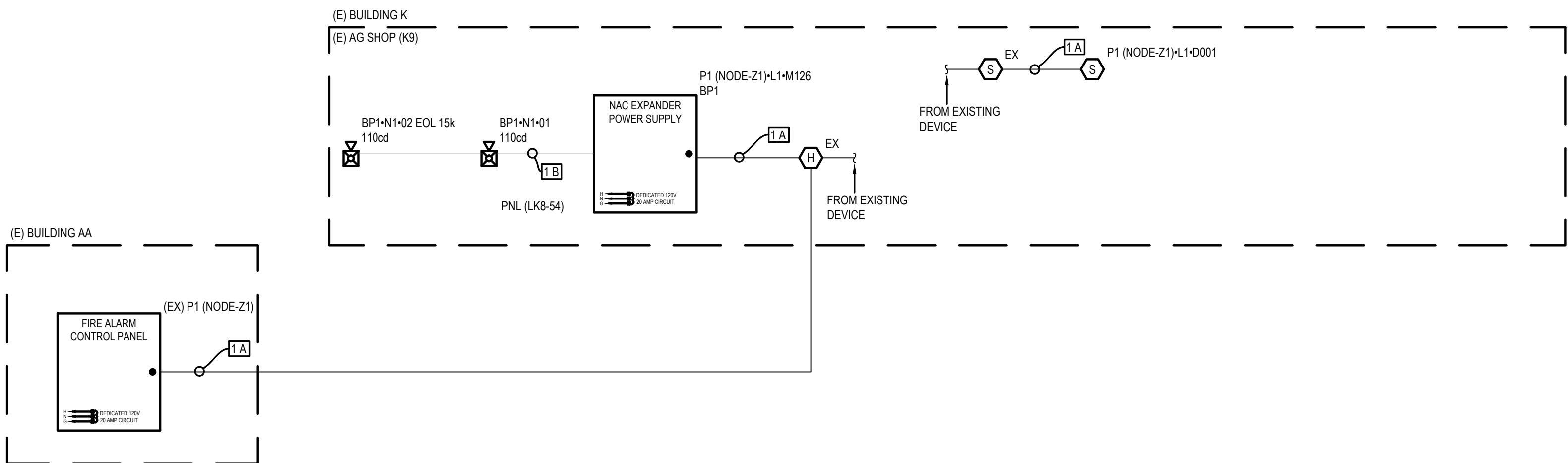
BATTERY CALCULATIONS

SCALE : NTS



FIRE ALARM FLOOR PLAN

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



RISER DIAGRAM

SCALE : NTS

CABLE LEGEND		
LABEL	AWG	DESCRIPTION
A	16	16/2 FPLP CABLE (SLC)
B	14	14/2 FPLP CABLE (NAC)
C	14	14/2 FPLP SHIELDED CABLE (SPEAKER)
D	16	16/2 FPLP CABLE (AUX)

KEYPLAN

WING-L GIRL'S

WING-L BOYS

L - CLASSROOM
BOILER RM

WING-K

WING-L GYM(S)

WING-M

WING-J

A

H

D

B

G

E

C

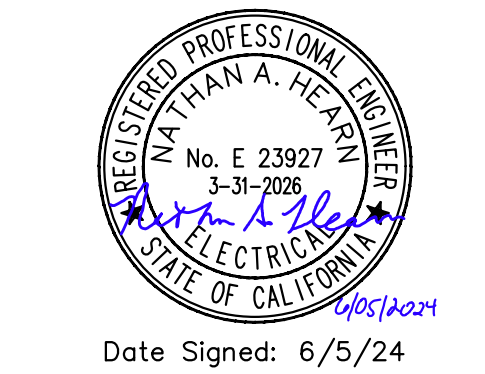
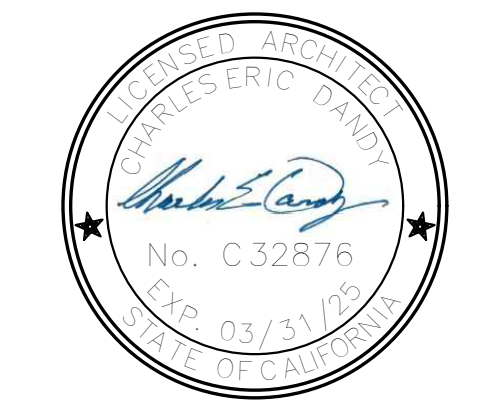
F

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122192 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/27/2024

DSA APP. NO: 02-122192



3701 Business Drive Suite 200
Sacramento, CA 95820
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STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

[illegible]

PROJECT No.: 2023-014.0

CONSTRUCTION DOCUMENTS

FIRE ALARM FLOOR PLAN

E5.1

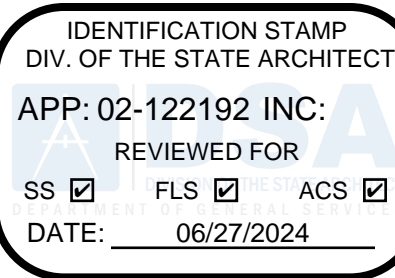
QC	
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ABBREVIATIONS

ACC	ACCESS CONTROL PROCESSOR	(N)	NEW
APF	ABOVE FINISHED FLOOR	NIC	NORMALLY CLOSED
AMP	AUTHORITY HAVING JURISDICTION	NIO	NORMALLY IN CONTACT
AMR	AMPLIFIER	NOT	NORMALLY NOT
ARC	ARCHITECT OF RECORD	OC	ON CENTER
AUTO	AUTOMATIC	OCFI	OWNER FURNISHED,
AUX	AUXILIARY		CONTRACTOR INSTALLED
AWG	AMERICAN WIRE GAUGE	OFI	OWNER FURNISHED,
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS		OWNER INSTALLED
	CONDUIT	OSP	OUTSIDE PLANT
CATV	COMMUNITY ANTENNA TELEVISION	PB	PULL BOX
	CONTRACTOR FURNISHED,	POE	POWER OVER ETHERNET
CFI	CONTRACTOR INSTALLED	PR	PAIR OF CONDUCTORS
OCFI	CONTRACTOR FURNISHED, OWNER INSTALLED	PCV	POLYVINYL CHLORIDE
	CENTLINE	PWR	POWER
CL	CALIFORNIA STATE FIRE MARSHAL DIVISION	(RR)	REMOVE AND REPLACE
CSFM	EXISTING	(RL)	REMOVE AND RELocate
DE	DOOR CONTACT	RCP	REFLECTED CEILING PLANT
(EX)	EXISTING	RFI	REQUEST FOR INFORMATION
EC	ELECTRICAL CONTRACTOR	RMC	RIGID METALLIC CONDUIT
ECs	EMERGENCY COMMUNICATION SYSTEM	SCS	STRUCTURED CABLEING SYSTEM
	ENTRANCE FACILITY FOR TELECOMMUNICATION	SM	SINGLE MODE
EMT	ELECTRIC METALLIC TUBING	STR	STRANDS (OF FIBER)
EXT	EQUIPMENT ROOM	STP	SHIELDED TWISTED PAIR
EXT	EXTERIOR	SEC	SECURITY
FT	FIRE ALARM CONTROL PANEL	TBB	TELECOMMUNICATIONS
FACP	FIRE ALARM TERMINAL CABINET	TELCO	BONDING BACKBONE
FALC	FIRE ALARM LOGBOX	TOG	TELEPHONE COMPANY
FB	FIRE ALARM BOOSTER PANEL	TMBG	TELECOMMUNICATIONS GROUNDING BUSBAR
FB	FIBER BOX	TYP	TELECOMMUNICATION,
FO	FIBER OPTIC		MAIN GROUNDING BUSBAR
GC	GENERAL CONTRACTOR	TYPICAL	TYPICAL
GD	INTERMEDIATE DISTRIBUTION FRAME	UNO	UNLESS NOTED OTHERWISE
INT	INTERIOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
IS	INTERNET PROTOCOL	UTP	UNSHIELDED TWISTED PAIR
JNT	JUNCTION BOX	V	VOICE
LC	LOW VOLTAGE	WB	WALL BOX
MDF	MAIN DISTRIBUTION FRAME	WP	WEATHERPROOF
MC	MICROPHONE		
MP	MULTIMODE		
MPDE	MINIMUM POINT OF ENTRY		

DSA GENERAL NOTES

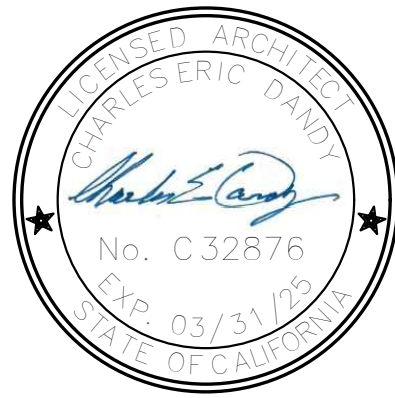
1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.
2. AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72, AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFUX (CENTRAL STATION) OR UJUS (REMOTE & PROPRIETARY) BY UNDERWRITERS LABORATORY INC. (UL) OR (REMOTE APPROVED LISTING AND TESTING LABORATORY) OR SHALL COMPLY WITH THE ULFUX LISTING STANDARD, FACTORY MUTUAL (FM) 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH CBC / CFC SECTION 907.6.2.2.
- 3.
4. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN PROVIDED BY DSA.
5. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
6. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
7. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR UNIFORM STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
8. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
9. ALL PENETRATIONS THROUGH RAISED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS REQUIRED IN CBC CHAPTER 7B OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
10. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
11. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
12. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 40 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIED SPACE WITHIN THE BUILDING.
13. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
14. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
15. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
16. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
17. ALL FIRE ALARM WIRING SHALL BE FLOR FLPL (FIRE POWER LIMITED OR FIRE POWER LIMITED PLUS) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THWN OR THWN.
18. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPlice THE WIRE. ALL BOXES TO BE SIZED PER CEC.
19. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE TO CONTAINMENT, IF NOT INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
20. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
21. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 100 LBS WITHOUT SPECIAL MOUNTING DETAILS. REFER TO SHEET 2/EO 3 FOR MORE INFORMATION.
22. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKED HANDLE TO LOCK THE CIRCUIT IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED AS "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
23. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.



DSA APP. NO: 02-122192



**3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655**



Date Signed: 6/5/24



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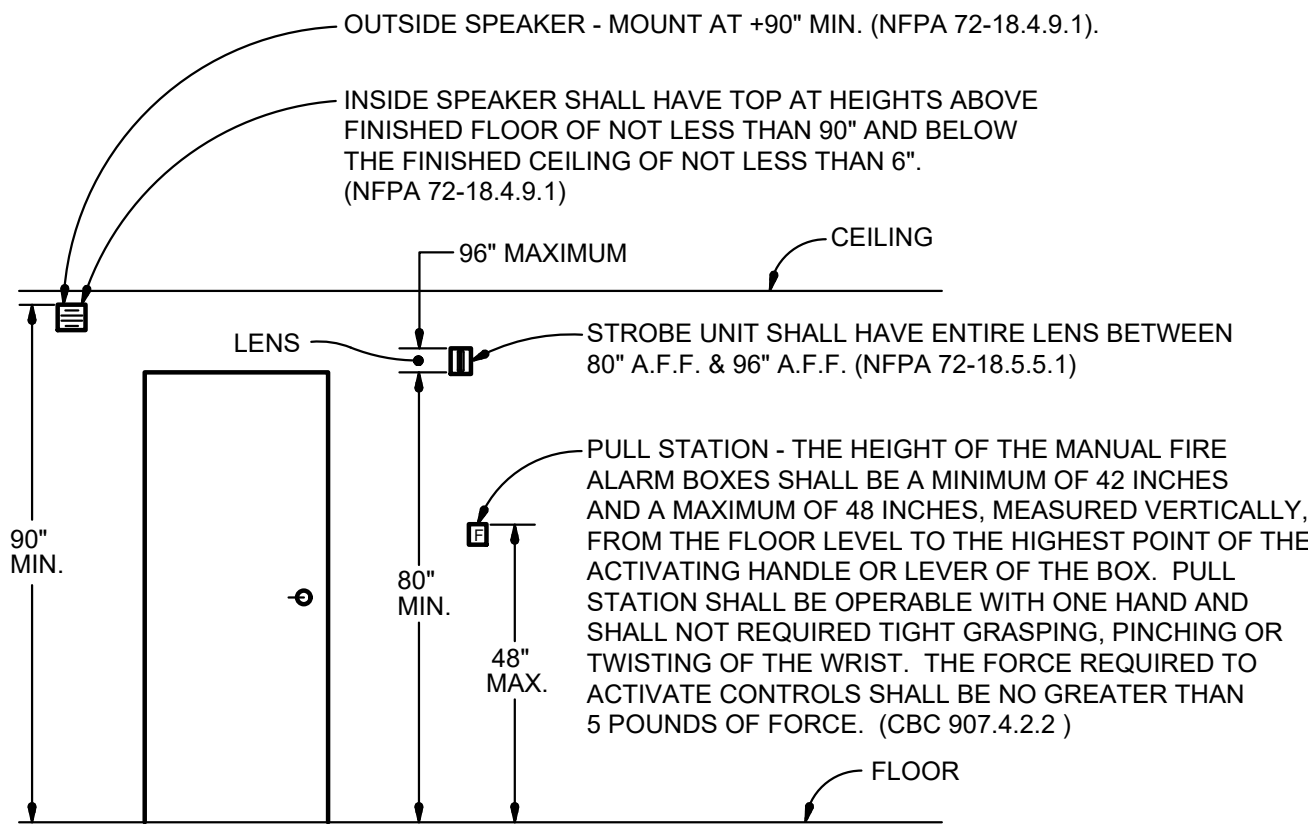
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PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

FIRE ALARM GENERAL NOTES AND DETAILS

E5.2



FIRE ALARM DEVICE MOUNTING DETAIL

SCALE : NTS

1
5.2

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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NREC-18-4	
Project Name: Slaggs HS - Agricultural Mechanics Shop Renovation		Report Page:	(Page 3 of 8)
		Date Prepared:	6/3/2024

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel room lighting is documented in Table 1. If using Table 1 to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)(3) & 170.2(e)(2)C	Design Watts	Field Inspector	
									Pass	Fail
L1	L1	No	NA	87.9	Mfr. Spec	22	No	1,933.8	<input type="checkbox"/>	<input type="checkbox"/>
L1E	L1E	No	NA	87.9	Mfr. Spec	2	No	175.8	<input type="checkbox"/>	<input type="checkbox"/>
L2	L2	No	NA	42	Mfr. Spec	2	No	84	<input type="checkbox"/>	<input type="checkbox"/>
L2E	L2E	No	NA	42	Mfr. Spec	1	No	42	<input type="checkbox"/>	<input type="checkbox"/>
U1B	U1B	No	NA	25	Mfr. Spec	1	No	25	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts: CONDITIONED SPACES								2,263		

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)(4) & 170.2(e)(2)D is adjusted to be 75%/80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Auditory Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03
		Field Inspector
		Pass
		Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)(4)	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.00
Schema Version: rev 20220101

Generation Date/Time:
 Documentation Software: EnergyPro

Compliance ID: EnergyPro-30211-0624-1228
 Report Generated: 2024-06-03 10:35:52

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION NRECC-131-E	
CERTIFICATE OF COMPLIANCE			
Project Name: Slugg HS - Agricultural Mechanics Shop Renovation		Report Page: (Page 6 of 8)	
		Date Prepared: 6/3/2024	
Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS			
This section does not apply to this project.			
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS			
This section does not apply to this project.			
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)			
This section does not apply to this project.			
T. DWELLING UNIT LIGHTING			
This section does not apply to this project.			
U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION			
Selections have been made based on information provided in this document. If any selections have 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			
Form/Title			
NRC-LTI-E - Must be submitted for all buildings.			

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220101

Generated Date/Time:

Documentation Software: EnergyPro

Compliance ID: EnergyPro-30211-0624-1228
Report Generated: 2024-06-03 10:35:52

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

NRC142148

CERTIFICATE OF COMPLIANCE

Project Name: Stagg HS - Agricultural Mechanics Shop Renovation

Report Page:

Page 2 of 8

Date Prepared: 6/3/2024

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)(1) / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					≥	Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results		
	01	02	03	04	=		Total Allowed (Watts)	06	07		=	Total Adjusted (Watts) *Includes Adjustments
	Complete Building 140.6(c)(1)	Area Category 140.6(c)(2) / 170.2(e)(4)	Area Category Additional 140.6(c)(25) / 170.2(e)(4)(v) (+)	Tailored 140.6(c)(3) / 170.2(e)(4)(v) (+)				PSM Lighting Control Credits 140.6(a)(2) / 170.2(e)(18) (1)	08			
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)				
Conditioned		2,890.8	0		=	2,891	≥	2,261	0	=	2261	05 must be >= 08 140.6 / 170.2(e)
Unconditioned					=		≥			=		
Controls Compliance (See Table H for Details)										COMPLIES		
Rated Power Reduction Compliance (See Table Q for Details)										COMPLIES		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220101

Compliance ID: EnergyPro-30211-0624-1228
Report Generated: 2024-06-03 10:35:52

STATE OF CALIFORNIA Indoor Lighting				CALIFORNIA ENERGY COMMISSION NRC-2114	
CERTIFICATE OF COMPLIANCE					
Project Name: Stagg HS - Agricultural Mechanics Shop Renovation			Report Page:		(Page 5 of 8)
			Date Prepared:		6/3/2024

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS					
TOTALS:		3,401	2,890.8	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM					
This section does not apply to this project.					

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE					
This section does not apply to this project.					

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY					
This section does not apply to this project.					

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING					
This section does not apply to this project.					

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS					
This section does not apply to this project.					

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE					
This section does not apply to this project.					

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))					
This section does not apply to this project.					

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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION							
Indoor Lighting		NRC-CLT14							
CERTIFICATE OF COMPLIANCE									
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.									
Project Name: Stagg HS - Agricultural Mechanics Shop Renovation		Report Page: (Page 1 of 8)							
Project Address: 1621 Brookside Road		Date Prepared: 6/3/2024							
A. GENERAL INFORMATION									
01 Project Location (city): Stockton		04 Total Conditioned Floor Area (ft²) 3,401							
02 Climate Zone: 12		05 Total Unconditioned Floor Area (ft²) 0							
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade) 1							
• Commercial Industrial									
B. PROJECT SCOPE									
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.									
Scope of Work		Conditioned Spaces		Unconditioned Spaces					
01		02		03		04		05	
My Project Consists of (check all that apply):		Calculation Method		Area (ft²)		Calculation Method		Area (ft²)	
<input type="checkbox"/> New Lighting System									
<input type="checkbox"/> New Lighting System - Parking Garage									
<input checked="" type="checkbox"/> Altered Lighting System		Area Category Method		3401		Area Category Method		0	
Total Area of Work (ft²)				3401				0	
Generated Date/Time: Documentation Software: EnergyPro									
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STATE OF CALIFORNIA	CALIFORNIA ENERGY COMMISSION	
Indoor Lighting	NRCCT-174	
CERTIFICATE OF COMPLIANCE		
Project Name: Stage HS - Agricultural Mechanics Shop Renovation	Report Page:	(Page 4 of 8)
	Date Prepared:	6/3/2024

H. INDOOR LIGHTING CONTROLS (Not including PAFs)										<input type="checkbox"/>	<input type="checkbox"/>
NA < 4,000W subject to multilevel											
See Area/Space Level Controls											
Area Level Controls											
04	05	06	07	08	09	10	11	12			
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(e) / 160.5(b)4D	Interlocked Systems 140.6(a) / 170.2(e)2A	Field Inspector			
								Pass		Fail	
AG Shop	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included		No	<input type="checkbox"/>	<input type="checkbox"/>		
Office	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	<input type="checkbox"/>	<input type="checkbox"/>		
Tool Storage	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	<input type="checkbox"/>	<input type="checkbox"/>		
Electrical Room	Electrical Mechanical Telephone Room	Readily Accessible	NA: Enclosed area <100SF	NA: Elec. equip. rm	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	<input type="checkbox"/>	<input type="checkbox"/>		
							13				
Plan Sheet Showing Daylit Zones:											

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS											
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(b) are being used.											
Conditioned Spaces											
01	02	03	04	05	06						
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment						
					Area Category		PAF				
Mechanics Shop	General Commercial Industrial Work Area Precision	0.85	3,401		No		No				

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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION NRCCT-14E	
CERTIFICATE OF COMPLIANCE		(Page 7 of 8)	
Project Name: Stage HS - Agricultural Mechanics Shop Renovation		Report Page:	
		Date Prepared: 6/3/2024	

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	AG Shop; Office; Tool Storage;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	AG Shop;

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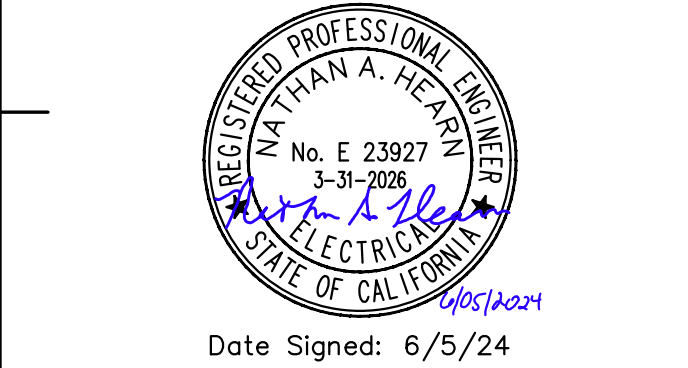
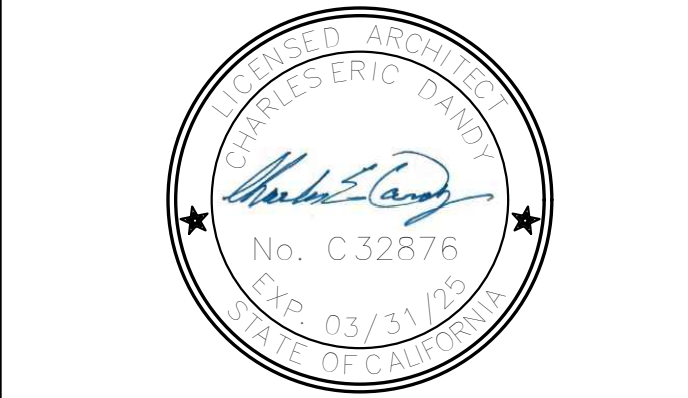
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT			
APP: 02-122192 INC:			
REVIEWED FOR:			
SS	<input checked="" type="checkbox"/>	FLS	<input checked="" type="checkbox"/>
ACS	<input checked="" type="checkbox"/>		
DATE: 06/27/2024			

DSA APP. NO: 02-122192



**COMMUNITY
ARCHITECTURE**

**3701 Business Drive Suite 200
Sacramento, CA 95820
Phone: (916) 365-9655**



55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD
STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

[illegible]

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

TITLE 24
LTI FORMS

E6.1