STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION STOCKTON UNIFIED SCHOOL DISTRICT

DSA APP: 02-122192 **FILE NO: 39-H7 SHEET INDEX SCOPE OF WORK** LIST OF ABBREVIATIONS **APPLICABLE CODES PROJECT TEAM** PLUMBING FINISHED OPENING ALTERATION OF APPROXIMATELY 3,000 SF OF EXISTING AUTO 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR* AIR CONDITIONING FACE OF CONCRETE SHOP/CLASSROOM INTO AN AG MECHANICS SHOP/CLASSROOM. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR POUNDS PER SQUARE INCH AREA DRAIN **FACE OF MASONRY** INCLUDING ASSOCIATED SITE WORK AND PAVING AS SHOWN ON G0.1 COVER SHEET (2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS) ABOVE FINISHED FLOOR POUNDS PER SQUARE FOOT FACE OF STUD STOCKTON UNIFIED SCHOOL DISTRICT DRAWINGS AND SPECIFICATIONS. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR G1.1 CODE ANALYSIS AND SITE ACCESS AIR HANDLING UNIT FACE OF WALL POLYVINYL CHLORIDE 56 SOUTH LINCOLN ST, FIBER REINFORCED GYPSUM EXITING AND OCC. PLAN AND CODE REVIEW 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR STOCKTON, CA 95203 ANODIZED FIRE STANDPIPE THIS PROJECT REQUIRES A CLASS 3 PROJECT INSPECTOR QUARRY TILE (2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS ARCHITEC^{*} 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR FIELD VERIFY DEFERRED SUBMITTALS - NONE ALAN COX C0.1 COVER SHEET (2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS) **FACILITIES AND PLANNING** RISER OR RADIUS DEMOLITION, GRADING, DRAINAGE, AND PAVING PLAN 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR FLOOR ZONE: X AREA WITH REDUCED FLOOD RISK DUE TO LEVEE BOARD GAUGE RADIUS 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR 209-933-0745 C3.1 DETAILS BUILDING GALVANIZED REFLECTED CEILING PLAN (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS ADCox@stocktonusd.net **GLASS-FIBER-REINFORCED** ROOF DRAIN 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR ARCHITECTURAL CONCRETE REFRIGERATOR (2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS GLASS-FIBER-REINFORCED GYPSUM REQUIRED A1.2 PARTIAL SITE PLAN AND SITE DETAILS 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR REVISION ENLARGED SITE PLAN AND SITE DETAILS **ARCHITECT** COAT HOOK GYPSUM WALL BOARD TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS AG SHOP FLOOR PLANS RELATIVE HUMIDITY CONTRACTOR FURNISHED 2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 AG SHOP CEILING PLANS CONTRACTOR INSTALLED COMMUNITY ARCHITECTURE. INC CORNER GUARD **ROUGH OPENING** AG SHOP ROOF PLANS NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 3701 BUSINESS DRIVE, SUITE 200 CONTINUOUS INSULATION ROOF TOP UNIT SECTIONS AND EXTERIOR ELEVATIONS HOSE BIBB SACRAMENTO, CA 95820 **CONTROL JOINT** RAIN WATER LEADER **EXISTING INTERIOR PHOTOS** CENTERI INF HEADER PARTIAL LIST OF APPLICABLE STANDARDS **EXISTING INTERIOR PHOTOS HOLLOW METAL KIP GRUBB** NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA CLOSET HIGH POINT SMOKE DETECTOR **EXISTING INTERIOR PHOTOS**2022 EDITION **ARCHITECT** SELF ADHESIVE MEMBRANE INTERIOR ELEVATIONS CONCRETE MASONRY UNIT NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA **HEIGHT** SCHED SCHEDULE (916) 365-9656 OPENINGS DETAILS AND DOOR SCHEDULE AMENDED)....2019 EDITION CONC kip@commarch.net A14.1 ROOF DETAILS CONCRETE NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SIMII AR INSIDE DIAMETER; INSIDE CONTINUOUS **SPECIFICATION** A17.1 ACCESSIBILITY DETAILS ...2021 EDITION DIMENSION STAINLESS STEEL NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING CHARLES DANDY CFRAMIC TILE STANDARD 2021 FDITION PROJECT ARCHITECT CONSTRUCTION JOINT **INFORMATION** SELF TAPPING SCREW NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE S1.0 TYPICAL NOTES CABINET UNIT HEATER INTERIOR STRUCTURAL (916) 365-9658 PROTECTION......2019 EDITION TYPICAL DETAILS S1.1 NEPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE charles@commarch.net S2.0 FOUNDATION PLAN NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND ROOF FRAMING PLAN DEGREE **TELEPHONE** MILY HOSTETLER THEIR APPURTENANCES (CA AMENDED)... S3.0 DETAILS DEMOLITION TEMPORARY NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA JOB CAPTAIN DRINKING FOUNTAIN THICK (916) 365-9660 TOP OF CONCRE NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING **LABORATORY** TOP OF MASONRY mily@commarch.net M0.1 MECHANICAL LEGEND & NOTES PROTECTIVES.. TOP OF PARAPET DOWN LAVATORY NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA DOWNSPOUT TOP OF SLAB; TOP OF STEEL MECHANICAL SCHEDULE AND NOTES POUNDS TOP OF WALL AMENDED)......2018 EDITION DRAWINGS LONG LEG HORIZONTAL MECHANICAL DEMO FLOOR PLAN UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR LONG LEG VERTICAL MECHANICAL FLOOR PLAN PROTECTION OF COMMERCIAL COOKING **GENERAL NOTES** TOP OF LOW POINT MECHANICAL DEMO ROOF PLAN EACH STRUCTURAL ENGINEER UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, MECHANICAL ROOF PLAN **EXPANSION JOINT** EXTERIOR INSULATION AND FINISH **EIFS** MACH RM MACHINE ROOM UNDERWRITER'S LABORATORIES INCLUDING ACCESSORIES... MECHANICAL DETAILS PROJECT MUST COMPLY WITH TITLE 24. PARTS 1-9 AND 12 UNO MAXIMUM UNLESS NOTED OTHERWISE POINT 2 STRUCTURAL ENGINEERING MECHANICAL DETAILS FI EVATION MFR MANUFACTURER UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING IN ACCORDANCE WITH TITLE 24, PART 1, 4-305 3701 BUSINESS DR., SUITE 100 MECHANICAL DETAILS **ELECTRICAL MECHANICAL** <u>√</u>CT VINYL COMPOSITE TILE SACRAMENTO, CA 95820 MECHANICAL DETAILS **MEZZANINE** UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING **ELEVATOR** VERTICAL **VERT** CONTRACTOR TO BE IN COMPLIANCE WITH CFC CH. 33 -MINIMUM MECHANICAL CONTROLS2002 (R2010) EDGE OF SLAB **VESTIBULE** MASONRY OPENING ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND FIRE SAFETY DURING CONSTRUCTION & DEMOLITION. T24 DOCUMENTATION **BRAD ROLLINS** EXISTING ROOF DRAIN **VERIFY IN FIELD** GRANDSTANDS......2017 EDITION T24 DOCUMENTATION 916-452-8200 FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) EQUIP FOUIPMENT **NOT APPLICABLE** TITLE 24, PARTS 1-5 MUST BE KEPT ON THE SITE DURING Brad@point2se.com CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. **NOT IN CONTRACT** CONSTRUCTION. SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO **EXIST** W/O WITHOUT P0.1 PLUMBING LEGEND & NOTES EXP **EXPOSED** NOT TO SCALE WOOD *ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 PLUMBING FIXTURES & CONN. SCHEDULE WALL HYDRANT **EXTERIOR** CHANGES TO STRUCTURAL. ACCESSIBILITY OR FIRE LIFE-EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY PLUMBING DEMO FLOOR PLAN WORKING POINT SAFETY PORTIONS OF THE APPROVED PLANS AND CIVIL ENGINEER STANDARDS (TITLE 24. PART 1. CHAPTER 10) IS JULY 12. 2023 AND THE EFFECTIVE DATE FOR ON CENTER WEATHER RESISTIVE BARRIER PLUMBING FLOOR PLAN THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS **FAHRENHEIT** SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL **OUTSIDE DIAMETER** PLUMBING ROOF PLAN FIRE ALARM **OUTSIDE DIMENSION** (NOT USED) BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS WARREN CONSULTING ENGINEERS, INC PLUMBING DETAILS FIRE ALARM CONTROL PANEL **OVERFLOW DRAIN** REQUIRED IN SECTION 4-338, PART 1, CAC, AND SHALL BE 1117 WINDFIELD WAY, SUITE 110 OH DR **OVERHEAD DOOR** P5.2 PLUMBING DETAILS THE PRECEDING LIST OF ABBREVIATIONS IS FLOOR DRAIN SUBMITTED TO AND APPROVED BY DSA PRIOR TO OPPOSITE HAND EL DORADO HILLS, CA 95762 P5.3 PLUMBING DETAILS PRESENTED AS A GENERAL GUIDE AND FIRE EXTINGUISHER CABINE OPPOSITE COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOES NOT NECESSARILY SHOW ALL FIRE EXTINGUISHER ORIGINAL ABBREVIATIONS USED. OTHER GENERALLY DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO **GREG VENTURA** FINISH GRADE ACCEPTED ABBREVIATIONS MAY BE FOUND FIRE HOSE CABINET ELECTRICAL COVER SHEET DSA IN COMPLIANCE WITH DSA INTERPRETATION OF (916) 985-1870 AMONG THE DRAWINGS - SOME PLASTIC LAMINATE E0.2 ELECTRICAL ONE LINE DIAGRAM **REGULATION IR A-6.** ABBREVIATIONS SHOWN ABOVE MAY NOT Greg@wceinc.com FLR FLOOR PLASTER BE USED WITHIN THIS DRAWING SET. E0.3 ELECTRICAL DETAILS FOUNDATION E1.0 ELECTRICAL SITE PLAN ALL ADDENDA MUST BE STAMPED AND SIGNED BY ELECTRICAL DEMO POWER FLOOR PLAN ARCHITECT/ENGINEER OF RECORD AND DELEGATED **ELECTRICAL ENGINEER** ELECTRICAL POWER FLOOR PLAN DRAWING SYMBOL LEGEND DESIGN PROFESSIONAL WHEN APPLICABLE, AND ELECTRICAL DEMO POWER ROOF PLAN APPROVED BY DSA. CAPITAL ENGINEERING ELECTRICAL POWER ROOF PLAN 11020 SUN CENTER DRIVE, SUITE 100 ELECTRICAL DEMO LIGHTING FLOOR PLAN ALL SUBSTITUTIONS AND REQUESTS FOR INFORMATION ELECTRICAL LIGHTING FLOOR PLAN RANCHO CORDOVA, CA 95670 DETAIL REFERENCE MATCH LINE SIGNAL DEMO FLOOR PLAN (RFI'S) THAT AFFECT STRUCTURAL SAFETY, FIRE LIFE A1— DETAIL NUMBER **MATCH LINE TAG** SAFETY, ACCESS COMPLIANCE OR ENERGY (AS SIGNAL FLOOR PLAN SEE Ax.x.x DAVID YU \A501/- SHEET NUMBER FIRE ALARM DEMO FLOOR PLAN APPLICABLE) SHALL BE SUBMITTED TO DSA FOR REVIEW (916) 851-3565 FIRE ALARM FLOOR PLAN AND APPROVAL AS A CONSTRUCTION CHANGE DOCUMENT David.Yu@capital-engineering.com E5.2 FIRE ALARM GENERAL NOTES AND DETAILS **CENTER LINE SYMBOL EXTERIOR ELEVATION REFERENCE** TITLE 24 LTO FORMS A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY DETAIL NUMBER TITLE 24 LTI FORMS THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL \A201/ SHEET NUMBER **TOTAL NUMBER OF SHEETS: 62** BREAK LINE MECHANICAL ENGINEER PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION **BUILDING SECTION REFERENCE** CAPITAL ENGINEERING 4-342, PART 1, TITLE 24, CCR. **ROUND BREAK LINE** DETAIL NUMBER 11020 SUN CENTER DRIVE SHEET NUMBER RANCHO CORDOVA, CA 95670 A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT **DETAIL REFERENCI** RICHARD LINGO ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE **NORTH ARROW** (916) 851-3531 PLAN NORTH DETAIL NUMBER rlingo@capital-engineering.com A301 /- SHEET NUMBER TRUE NORTH CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE AND SHALL REPORT **ROOM DESIGNATION (FLOOR PLAN)** ANY DISCREPANCIES IN WRITING TO THE ARCHITECT BY ROOM NAME THE MEANS OF A REQUEST FOR INFORMATION (RFI) OR AS ROOM NUMBER CASEWORK TYPE DESIGNATION PART OF THE APPLICABLE SHOP DRAWING / SUBMITTAL FLOOR/BASE FINISH WI STANDARD CDS NUMBERING SYSTEM WALL FINISH CEILING FINISH - CDS NUMBER (M DENOTES CONTRACTOR IS RESPONSIBLE FOR INCIDENTAL WORK MODIFICATION) NECESSARY TO COMPLETE THE INSTALLATION OF NEW CEILING HEIGHT WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, THE INTERIOR ELEVATIONS REMOVAL AND/OR REINSTALLATION OF ALL EXISTING MODIFICATION DESCRIPTION ITEMS, OR PORTIONS OF THE EXISTING CONSTRUCTION OCCUPANCY DESIGNATION (CODE PLAN) WHETHER SHOWN OR NOT. **ROOM NAME** SLOPE INDICATION ROOM NUMBER 11. ALL WORK SHALL BE IN COMPLETE CONFORMANCE WITH - SQUARE FOOTAGE MANUFACTURER'S SPECIFICATIONS AND OCCUPANCY RECOMMENDATIONS OR AS OTHERWISE OUTLINED IN THE GROUP SPECIFICATIONS. LOAD FACTOR TOTAL OCCUPANTS 12. USE OF ANY MATERIALS CONTAINING LEAD OR ASBESTOS **ROOM DESIGNATION (RCP)** REVISION DESIGNATION ROOM NUMBER REVISION NUMBER CEILING HEIGHT ABOVE FINISH FLOOR 13. THE TERM "TYPICAL" OR "(TYP.)" SHALL BE CONSTRUED TO REVISION CLOUD MEAN APPLYING TO ALL LIKE OR SIMILAR CONDITIONS **ELEVATION SYMBOL** UNLESS SPECIFICALLY NOTED OTHERWISE. T.O. WALL ELEVATION DESCRIPTION 100'-0" ELEVATION ABOVE DATUM **EXISTING WALL TO REMAIN** WALL TYPE DESIGNATION WALL TO BE DEMOLISHED **DOOR DESIGNATION** NEW WALL 101) — DOOR NUMBER WINDOW DESIGNATION FIRE RATED WALL

A WINDOW TYPE

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





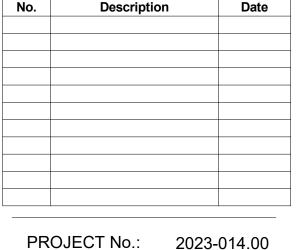
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH
SCHOOL
AGRICULTURAL
MECHANICS SHOP
RENOVATION

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

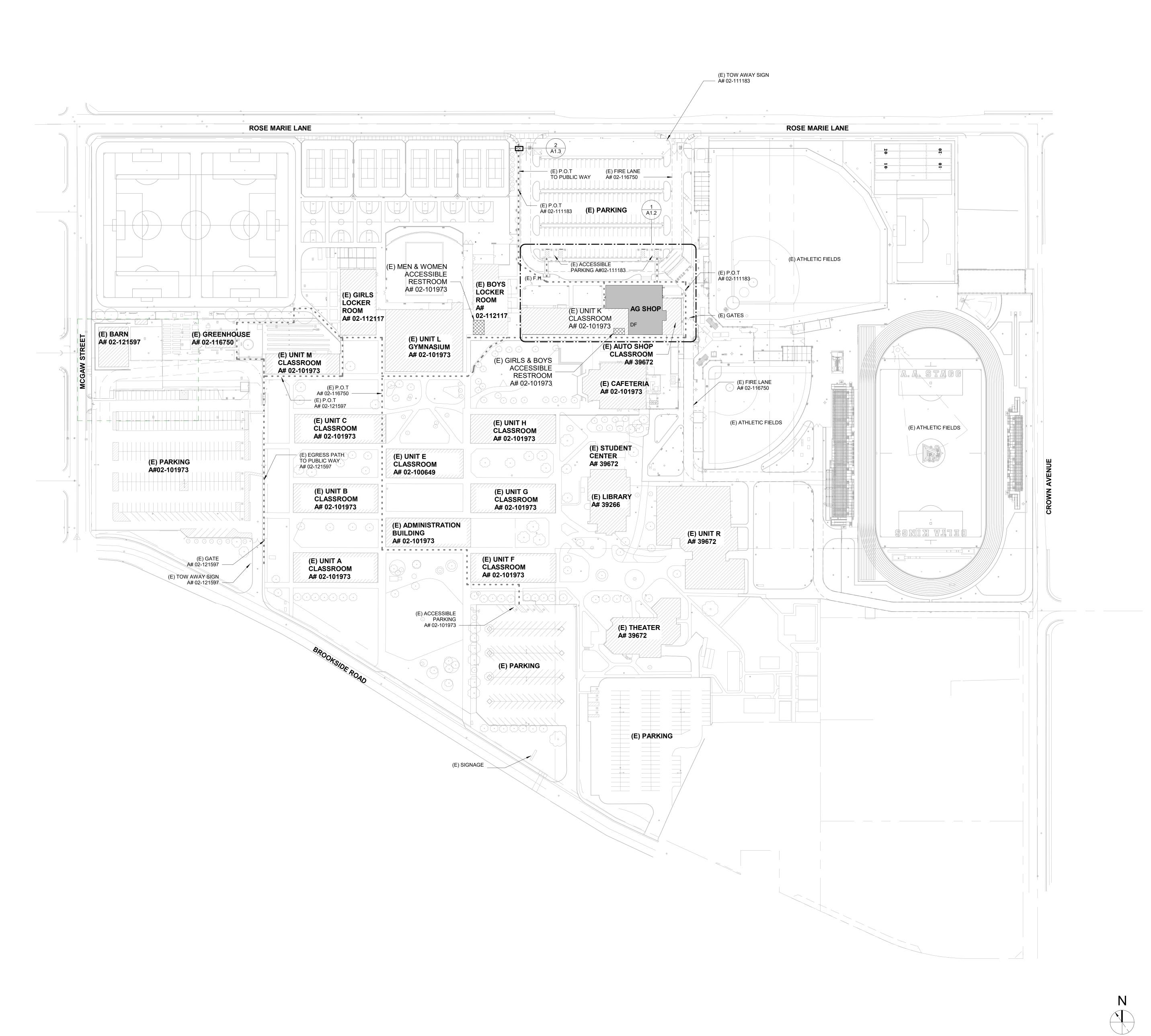
REVISIONS



CONSTRUCTION DOCUMENTS

COVER SHEET

G0.1



SITE PLAN

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:

BEEN IDENTIFIED ON THESE PLANS

THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THE PROJECT'S 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
- 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:

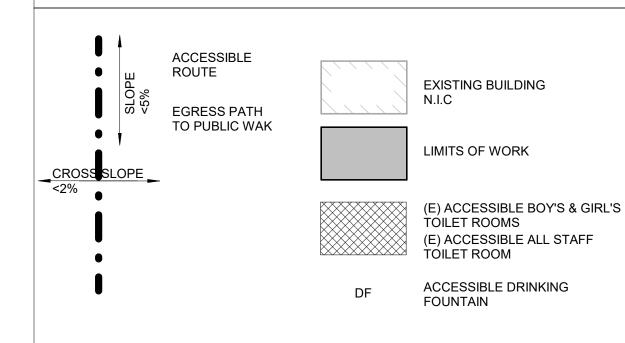
557 SPACES 35 ACCESS TOTAL 6 VAN ACCESS

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



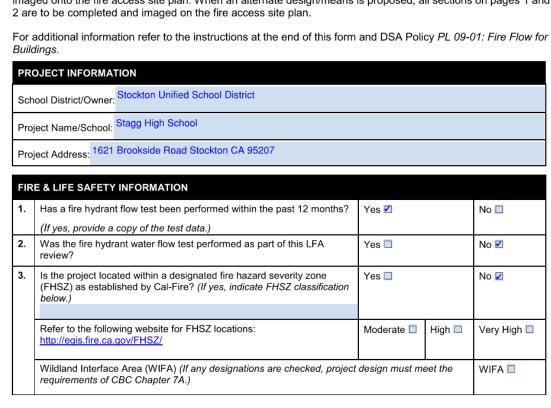
(E) ACCESSIBLE ROUTE (E) EGRESS PATH TO PUBLIC WAK

MDSA

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



DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT	DEP	ARTMENT	OF GENE	ERAL SE	RVICES	Page 1 of 4 STATE OF CALIFORNIA
BIVISION OF THE STATE ANOTHEST	DLI	ARTIMEIT	OI OLIVE		ITTIOLO	OTATE OF GALIF ORNIA
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MUNICIPAL VILLITE www.disdingsr.com - (209927470	5 0				7400 West Ln. ockton, CA 95210 (209) 937-7031 X: (209) 937-7034	
	WATER	RFLOW INF	ORMATIO	Ν .		
Date:	4/20/23					
Requesting Company:	COMMUI	NITY ARCHI	FECTURE			-
Contact Name:	MILY HO	STETLER				-
Email:		nmarch.net				
Telephone/FAX:	916.298.8					•
Mailing Address	3/01 Busi	ness Dr, Sac	ramento C	A 95820		•
Project Name:	Livestock F	acility Projec	**************************************			I
Project Location:		side Rd, Sto		5207		
						•
City use only below	w this lin	ie,				
	Fire I	Department l	Dist#:	4055	Pe/Mcgaw	
	Nea	rest Flow Hy	drant: B	rooksid	e/Mcgaw	
-		Water Ma	n Size	8"	, , ,	
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Flow Date Static Pressure	Residual Pressure	Discharge Size	Pitot Pressure	Flow	Flow Avail.	
5-17-23 50	35	Size	/7	ורדו	@ 20 2575	
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55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗹

DSA APP. NO: 02-122192

ARCHITECTURE

3701 Business Drive Suite 200 Sacramento, CA 95820

Phone: (916) 365-9655

APP: 02-122192 INC:

DATE: 06/27/2024

STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP** RENOVATION

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

> **REVISIONS** Description

PROJECT No.: 2023-014.00

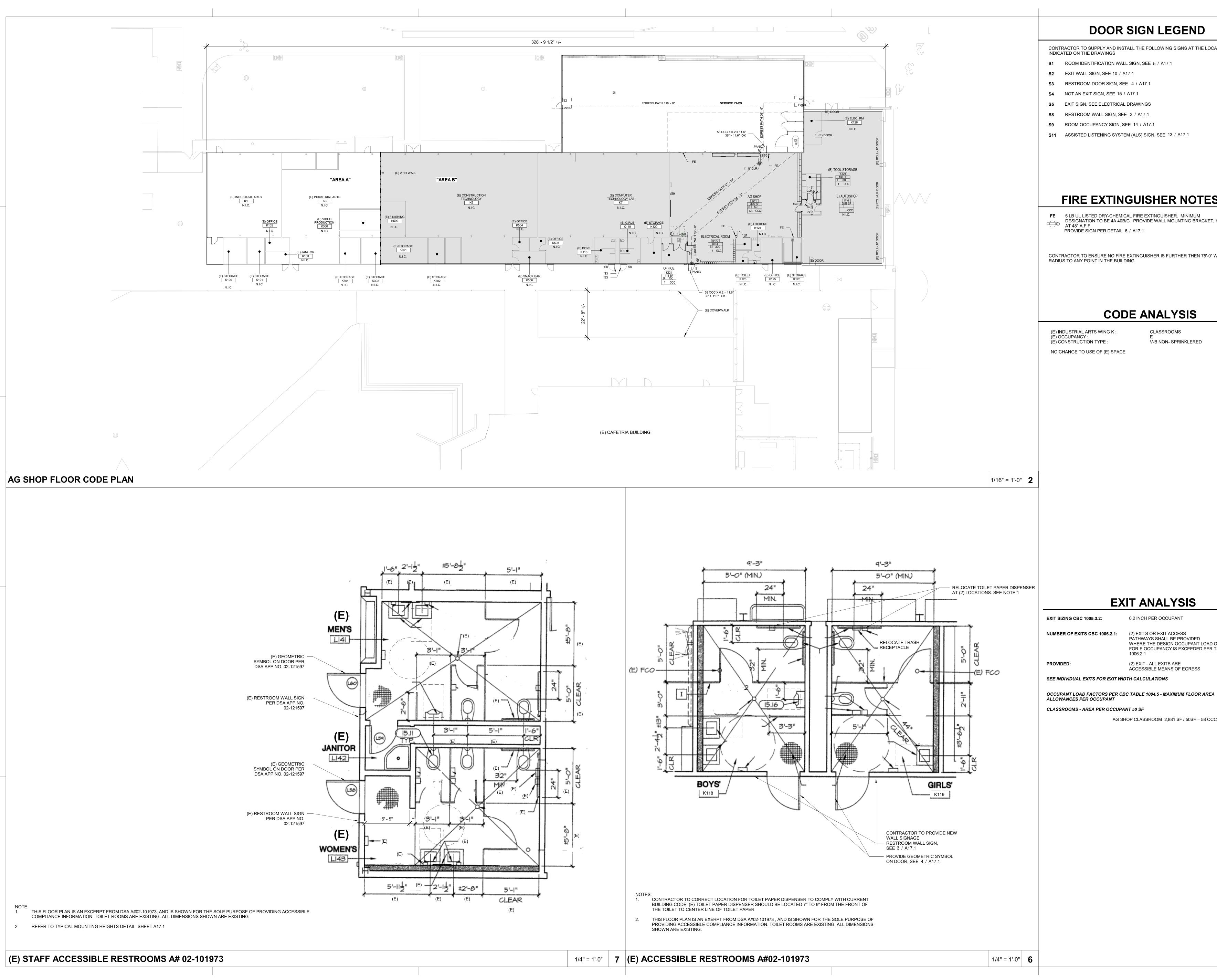
CONSTRUCTION DOCUMENTS

CODE ANALYSIS AND SITE ACCESS

G1.1

1" = 80'-0" 10 WATER FLOW INFORMATION

1" = 1'-0" | **5**



DOOR SIGN LEGEND

CONTRACTOR TO SUPPLY AND INSTALL THE FOLLOWING SIGNS AT THE LOCATIONS INDICATED ON THE DRAWINGS

- **S1** ROOM IDENTIFICATION WALL SIGN, SEE 5 / A17.1
- EXIT WALL SIGN, SEE 10 / A17.1
- RESTROOM DOOR SIGN, SEE 4 / A17.1
- NOT AN EXIT SIGN, SEE 15 / A17.1
- **S5** EXIT SIGN, SEE ELECTRICAL DRAWINGS
- ROOM OCCUPANCY SIGN, SEE 14 / A17.1
- S11 ASSISTED LISTENING SYSTEM (ALS) SIGN, SEE 13 / A17.1

FIRE EXTINGUISHER NOTES

FE 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. PROVIDE SIGN PER DETAIL 6 / A17.1

CONTRACTOR TO ENSURE NO FIRE EXTINGUISHER IS FURTHER THEN 75'-0" WALKING RADIUS TO ANY POINT IN THE BUILDING.

CODE ANALYSIS

EXIT ANALYSIS

0.2 INCH PER OCCUPANT

(2) EXITS OR EXIT ACCESS

(2) EXIT - ALL EXITS ARE

ACCESSIBLE MEANS OF EGRESS

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

PATHWAYS SHALL BE PROVIDED
WHERE THE DESIGN OCCUPANT LOAD OF 49
FOR E OCCUPANCY IS EXCEEDED PER TABLE

(E) INDUSTRIAL ARTS WING K: (E) OCCUPANCY: (E) CONSTRUCTION TYPE :

CLASSROOMS V-B NON- SPRINKLERED

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DSA APP. NO: 02-122192

COMMUNITY

ARCHITECTURE

3701 Business Drive Suite 200 Sacramento, CA 95820

Phone: (916) 365-9655

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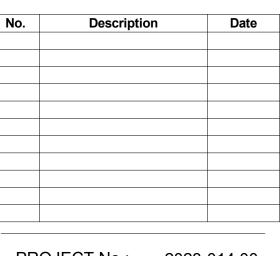
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP** RENOVATION

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STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS



PROJECT No.: 2023-014.00 CONSTRUCTION DOCUMENTS

EXITING AND OCC. PLAN AND CODE

REVIEW

ABBREVIATIONS NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS. AGGREGATE BASE ASPHALTIC CONCRETE AREA DRAIN ASSESSOR'S PARCEL NUMBER AIR RELEASE VALVE ASB AGGREGATE SUB-BASE BLOW-OFF VALVE BUTTERFLY VALVE BACK OF WALK CENTERLINE CATCH BASIN CONTROL JOINT CLASS CORRUGATED METAL PIPE CABLE TELEVISION CO CLEANOUT COMMUNICATION CONC. CONCRETE CONST CONSTRUCT CR CURB RETURN CONCRETE SURFACE DOUBLE CHECK VALVE DOUBLE DETECTOR CHECK VALVE DECOMPOSED GRANITE DROP INLET DIA DIAMETER DUCTILE IRON PIPE DWG DRAWING DOWNSPOUT ELECTRIC **EXPANSION JOINT** EDGE OF PAVEMENT **ESMT** EASEMENT **EXISTING** FIRE SERVICE LINE FIRE DEPARTMENT CONNECTION FLOWLINE SANITARY SEWER FORCE MAIN FINISHED FLOOR ELEVATION FIRE HYDRANT GRADE BREAK GRATE ELEVATION GRADE ELEVATION GATE VALVE HOSE BIBB HEADER BOARD HIGH DENSITY POLYETHYLENE PIPE HIGH POINT PIPE INVERT ELEVATION JOINT UTILITY POLE LINEAL FEET LIP OF GUTTER MOWSTRIP NTS NOT TO SCALE OH OVERHEAD BUILDING PAD PORTLAND CEMENT CONCRETE PLANTER DRAIN POST INDICATOR VALVE PROPERTY LINE POWER POLE PUBLIC UTILITY EASEMENT PVC POLYVINYL CHLORIDE REINFORCED CONCRETE PIPE RADIUS MANHOLE RIM ELEVATION (SOLID COVER) REDUCED PRESSURE BACKFLOW PREVENTER RIGHT OF WAY SCH SCHEDULE STORM DRAIN STORM DRAIN MANHOLE SUBGRADE ELEVATION FIRE SPRINKLER SERVICE SANITARY SEWER SANITARY SEWER MANHOLE STANDARD STD S/W SIDEWALK TELEPHONE TOP OF CURB TRENCH DRAIN TDCB TRENCH DRAIN CATCH BASIN TELEPHONE POLE TRW TOP OF RETAINING WALL TOP OF SEAT WALL

TSW

TW

UON

VCP

TOP OF WALK ELEVATION

UNLESS OTHERWISE NOTED

UTILITY

WATER WITH

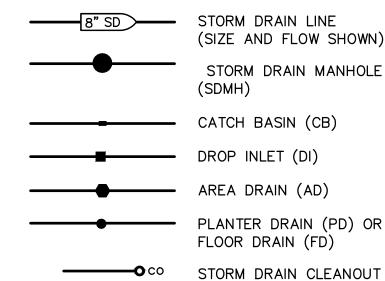
WITHOUT

WATER VALVE

UNDERGROUND

VITRIFIED CLAY PIPE

LEGEND NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS. PROPOSED GRADING & DRAINAGE SYMBOLS:



ELEVATION FINISHED FLOOR ELEVATION PAD=99.33 BUILDING PAD ELEVATION CONCRETE SIDEWALK GRADED DIRECTION FOR

DRAINAGE FLOW → SWALE

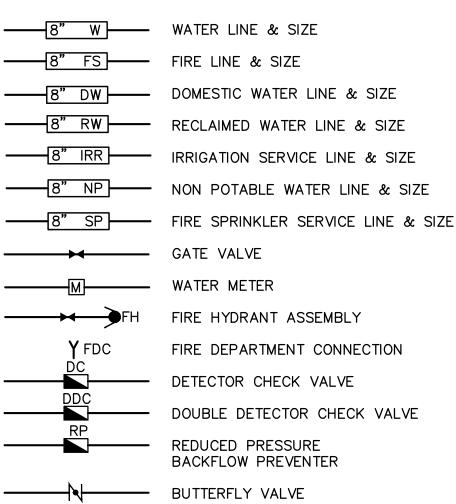
TREE TO BE REMOVED RETAINING WALL

MANHOLE (SSMH)

PROPOSED SANITARY SEWER SYMBOLS: 6" SS SANITARY SEWER LINE (SIZE AND FLOW SHOWN) SANITARY SEWER

SEWER CLEANOUT FLUSHER BRANCH

PROPOSED WATER SYMBOLS:



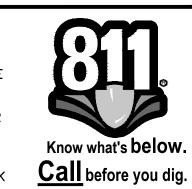
AIR RELEASE VALVE + SIZE

BLOW-OFF VALVE + SIZE

POST INDICATOR VALVE

GENERAL NOTES

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.



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.

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

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

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

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 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% 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

36. THE MINIMUM SLOPE AWAY FROM THE BUILDING ON PAVED SURFACES SHALL BE 1%.

SHEET INDEX

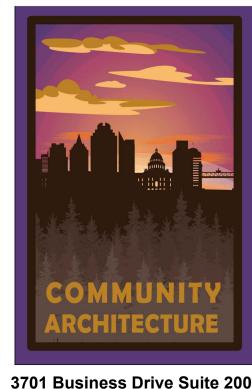
CO.1 CIVIL COVER SHEET

C1.1 DEMOLITION, GRADING, DRAINAGE, AND PAVING PLAN

C3.1 DETAILS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC 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







1117 WINDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762 | (916) 985-1870

55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP** RENOVATION

1621 BROOKSIDE ROAD

STOCKTON UNIFIED SCHOOL

STOCKTON, CA 95207

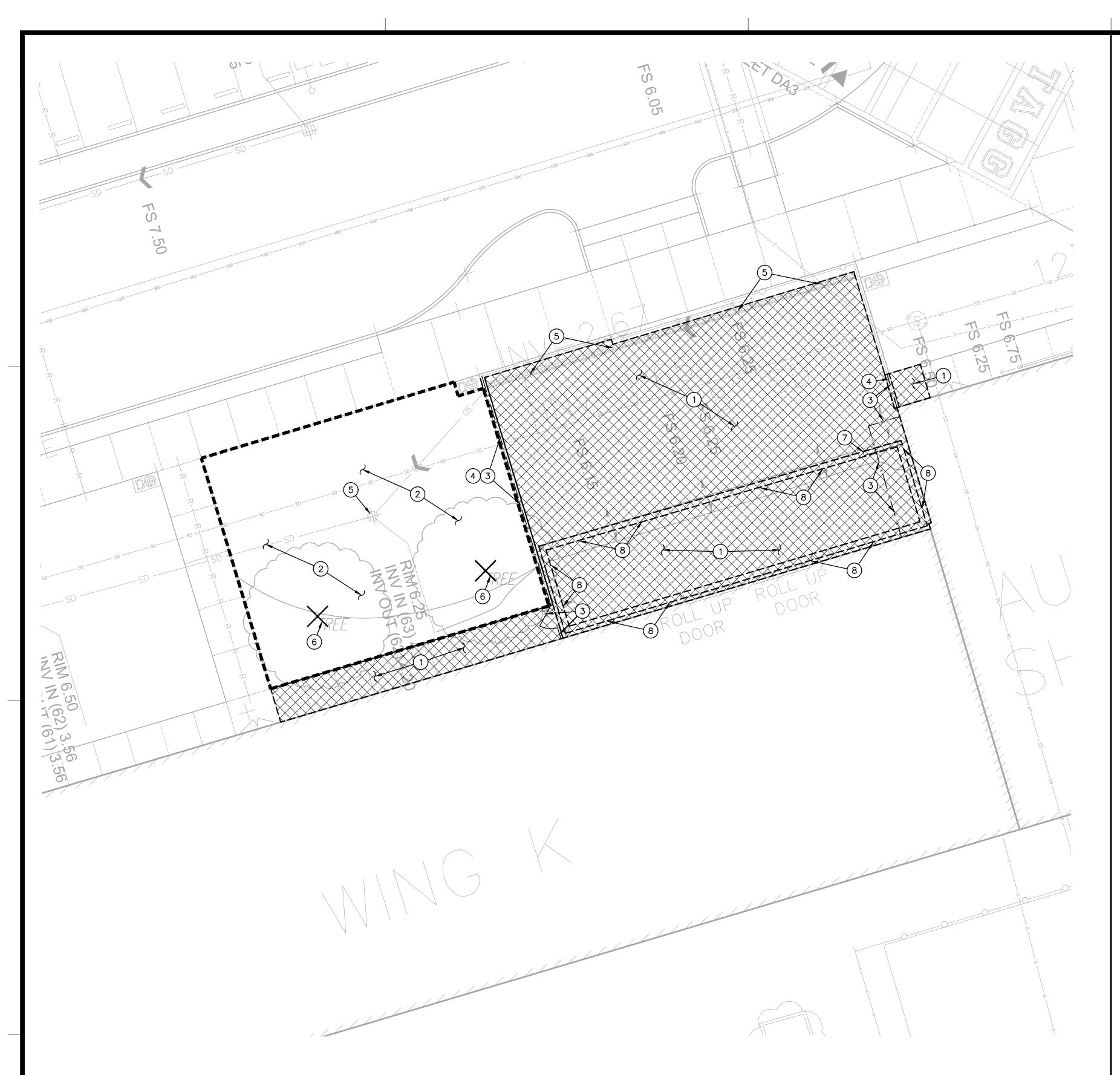
REVISIONS

DISTRICT

No.	Descripti	on	Date
DDO	IECT No.:	2022	-014.00

CONSTRUCTION DOCUMENTS

COVER SHEET



DEMOLITION PLAN

DEMOLITION GENERAL NOTES

- 1. REFER TO ARCHITECTURAL, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL DEMOLITION ITEMS.
- 2. 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.
- 4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- 5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- 6. 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.
- 7. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- 8. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 9. EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.
- 10. 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.
- 11. 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.
- 12. 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 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 ENGINEER FOR DIRECTION.

DEMOLITION NOTES



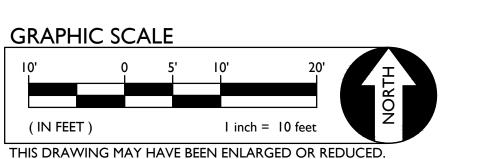
SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED. COORDINATE WITH STRUCTURAL DRAWING \$2.0.



- 2. REMOVE AND DISPOSE OF EXISTING IRRIGATION SYSTEM. CLEAR, GRUB AND REMOVE EXISTING VEGETATION.
- ×— 3. REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE, POSTS AND ASSOCIATED FOOTINGS TO EXTENT SHOWN.
 - 4. REMOVE AND DISPOSE OF EXISTING CONCRETE BAND.

5. REMOVE AND DISPOSE OF EXISTING DRAIN STRUCTURE.

- 6. REMOVE AND DISPOSE OF EXISTING TREE AND ASSOCIATED
- ROOTS
- 7. REMOVE AND DISPOSE OF EXISTING CMU WALL AND ASSOCIATED FOOTING.
- ————— 8. EXISTING CANOPY GRADE BEAM TO BE PARTIALLY DEMOLISHED WHILE PRESERVING REBAR PER STRUCTURAL PLANS. CONTRACTOR TO CONFIRM GRADE BEAM LOCATION.



GRADING, DRAINAGE AND PAVING PLAN

7.20±TW 1

7.23±TW 1

PAVING GENERAL NOTES:

PERFORMED AFTER;

- 1. 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.
- 3. ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
- 4. RECYCLED ASPHALT MAY BE USED AS CONCRETE AND ASPHALT BASE MATERIAL PROVIDED IT MEETS CITY OF SACRAMENTO SPECIFICATIONS FOR CLASS II AB.
- 5. PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, AND COMPACTION SHALL BE
- A. POT HOLING ALL EXISTING UTILITIES.
 B. THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
- 6. ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, SHALL BE RESTORED.
- 7. REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
- 8. 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.
- 9. ALL NEW ASPHALT PAVING TO RECEIVE TWO APPLICATIONS OF SEAL COAT.

GRADING AND PAVING NOTES

GR=6.37 EX.6"INV=4.50±

6"INV=4.50

- 1. MATCH EXISTING GRADE/ELEVATION.
- 2. MATCH EXISTING FINISH FLOOR GRADE/ELEVATION.
- . 3. GRADE UNIFORML TOWARDS INLET OR SWALE.
- 4. PLACE 6" PCC OVER WITH #4 REBAR @ 18" O.C.E.W. OVER 1
 6" CLASS II AB ON SUBGRADE TREATED/COMPACTED PER C3.1
 SPECIFICATIONS.
 - PLACE 8" PCC OVER WITH #4 REBAR @ 12" O.C.E.W. OVER 6" CLASS II AB ON SUBGRADE TREATED/COMPACTED PER C3.1 SPECIFICATIONS.

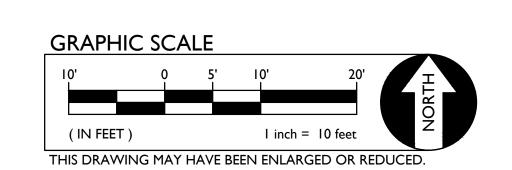
DRAINAGE NOTES

CONNECTION.

- 21. CONNECT TO EXISTING STORM DRAIN LINE OR STRUCTURE. POTHOLE TO VERIFY DEPTH AND
- LOCATION PRIOR TO TRENCHING.
- 22. CONSTRUCT DRAIN INLET PER.
- 23. CONSTRUCT TRENCH PER.
- 24. CONSTRUCT CLEANOUT PER. 5
 C3.1
 25. CONNECT TO EXISTING DOWNSPOUTS C, CONTRACTOR

TO PROVIDE ALL FITTING REQUIRED TO MAKE

- 26. PLACE 4" STORM DRAIN PER. 4
- 27. PLACE 6" STORM DRAIN PER. 4
 C3.1



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-122192 INC:

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55 S LINCOLN STREET
STOCKTON UNIFIED SCHOOL DISTRICT

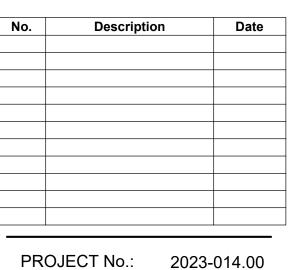
STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP

1621 BROOKSIDE ROAD STOCKTON, CA 95207

RENOVATION

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

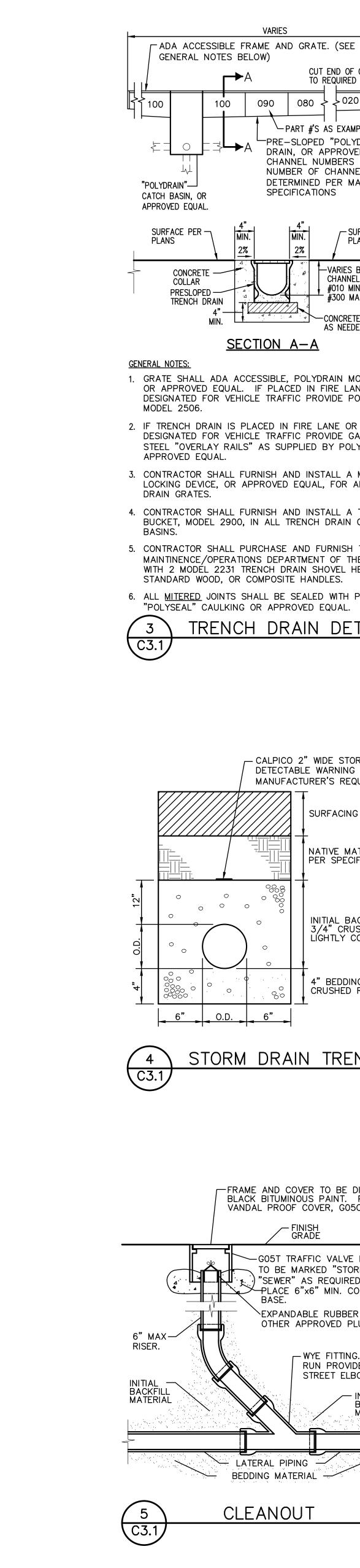


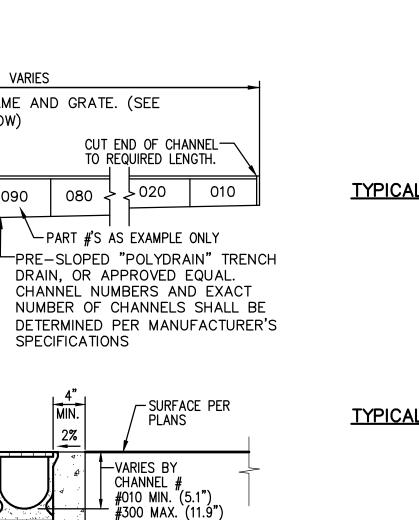
CONSTRUCTION DOCUMENTS

DEMOLITION, GRADING, DRAINGE, AND

C1 1

PAVING PLAN





SECTION A-A

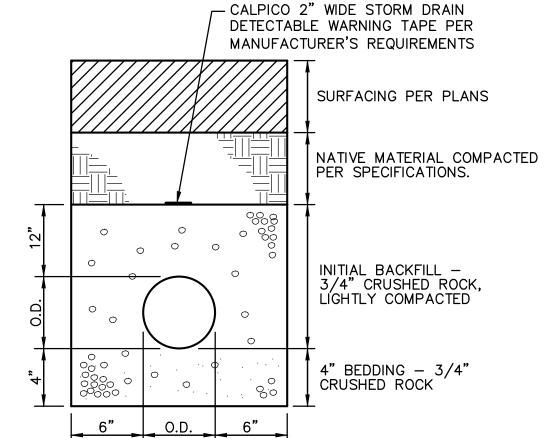
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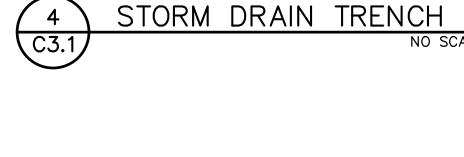
SPECIFICATIONS

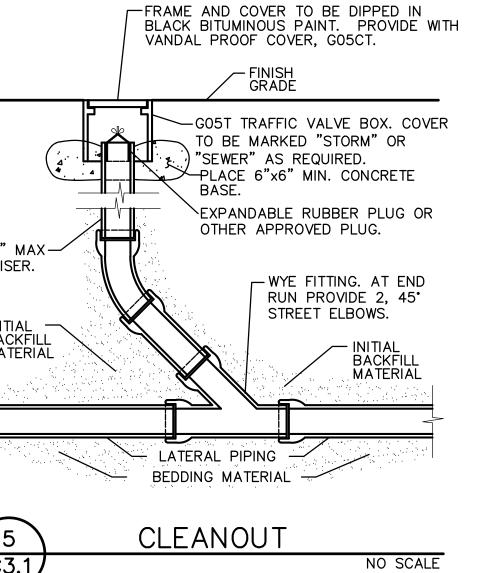
—CONCRETE BRICK AS NEEDED

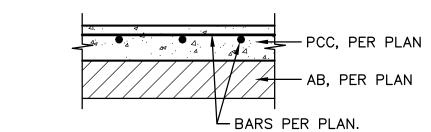
- 1. GRATE SHALL ADA ACCESSIBLE, POLYDRAIN MODEL 2412 OR APPROVED EQUAL. IF PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE POLYDRAIN
- 2. IF TRENCH DRAIN IS PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE GALVANIZED STEEL "OVERLAY RAILS" AS SUPPLIED BY POLYDRAIN, OR
- 3. CONTRACTOR SHALL FURNISH AND INSTALL A MODEL 2811B LOCKING DEVICE, OR APPROVED EQUAL, FOR ALL TRENCH
- 4. CONTRACTOR SHALL FURNISH AND INSTALL A TRASH BUCKET, MODEL 2900, IN ALL TRENCH DRAIN CATCH
- 5. CONTRACTOR SHALL PURCHASE AND FURNISH THE MAINTINENCE/OPERATIONS DEPARTMENT OF THE SCHOOL WITH 2 MODÉL 2231 TRENCH DRAIN SHOVEL HEADS, WITH STANDARD WOOD, OR COMPOSITE HANDLES.
- 6. ALL <u>MITERED</u> JOINTS SHALL BE SEALED WITH POLYDRAIN "POLYSEAL" CAULKING OR APPROVED EQUAL.



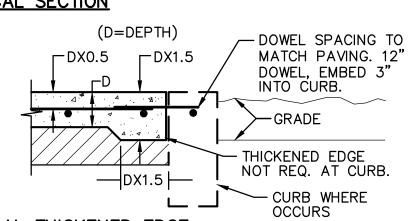




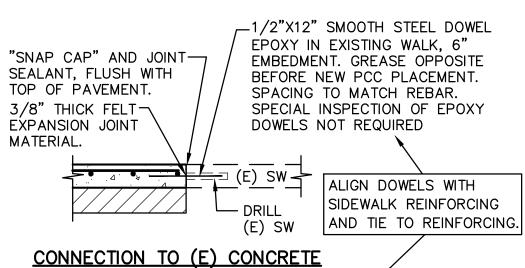


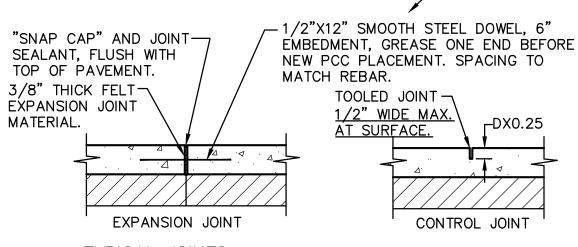


TYPICAL SECTION



TYPICAL THICKENED EDGE

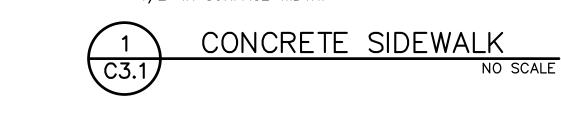


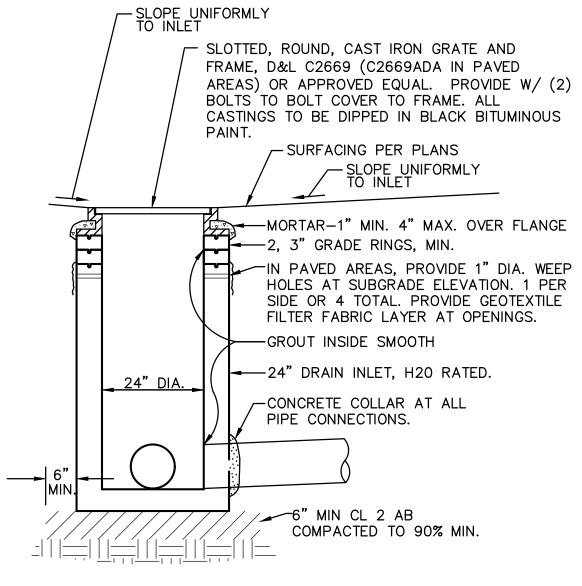


TYPICAL JOINTS

- 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.







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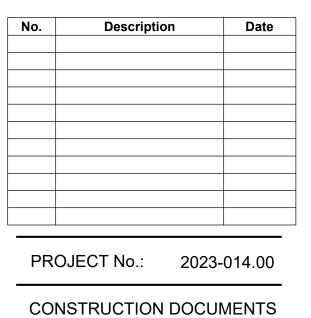
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP** RENOVATION

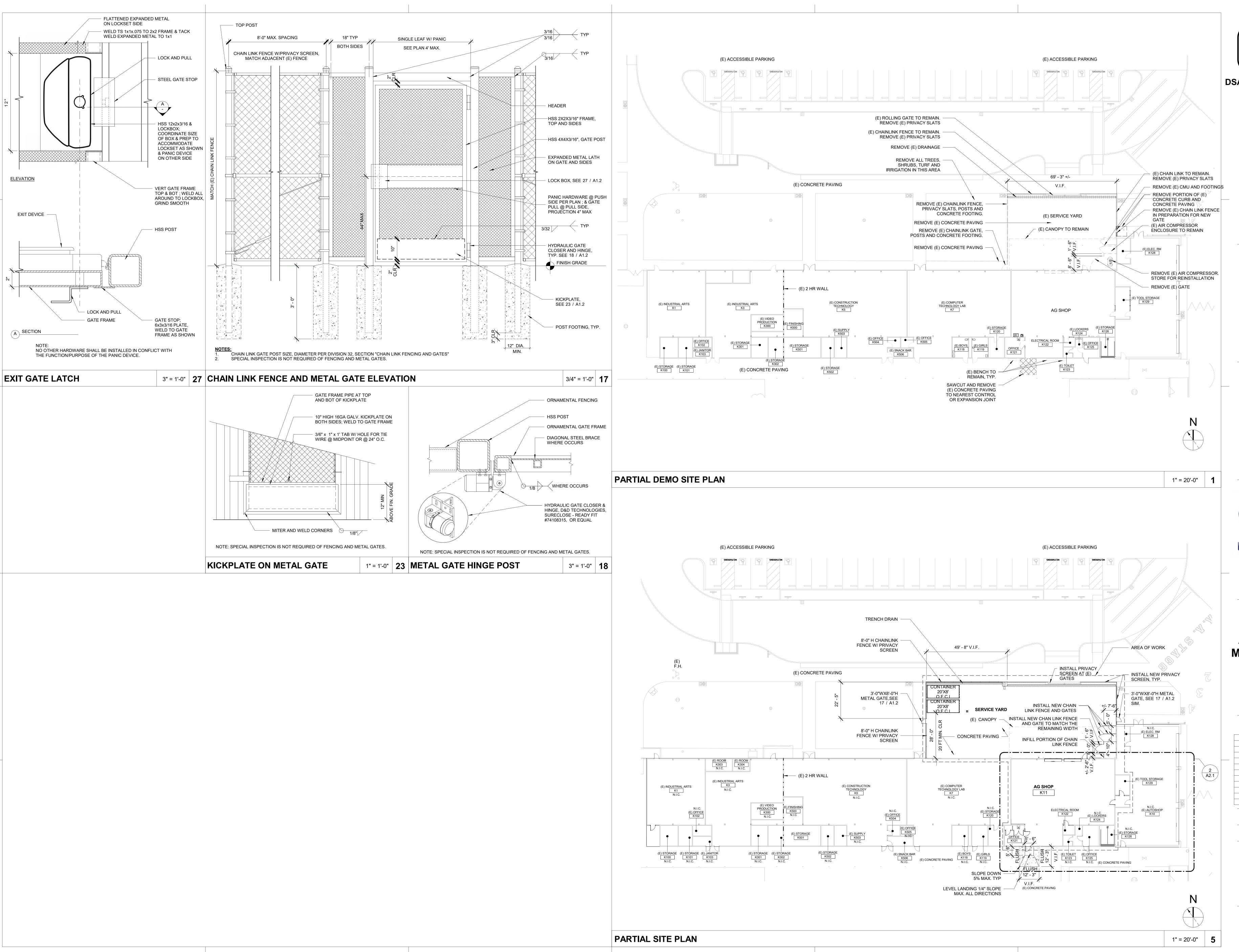
1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS



DETAILS



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-122192 INC:

REVIEWED FOR
SS FLS ACS D

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

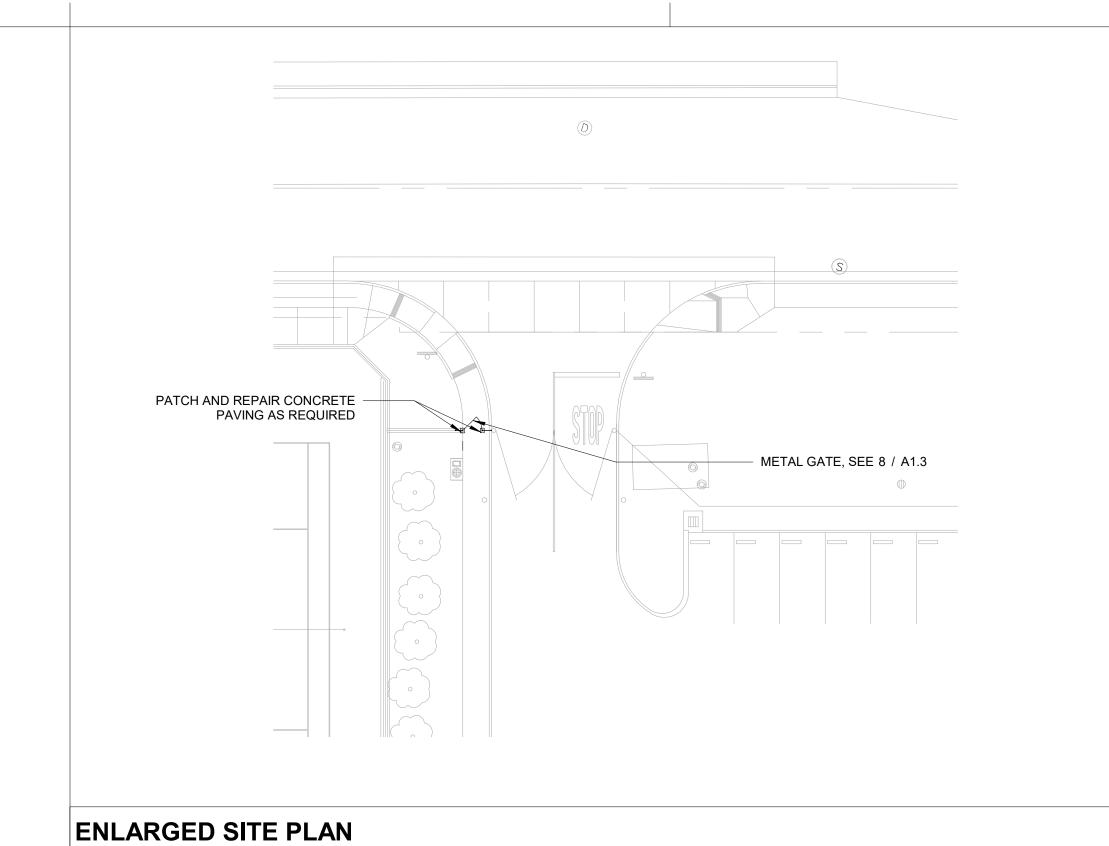
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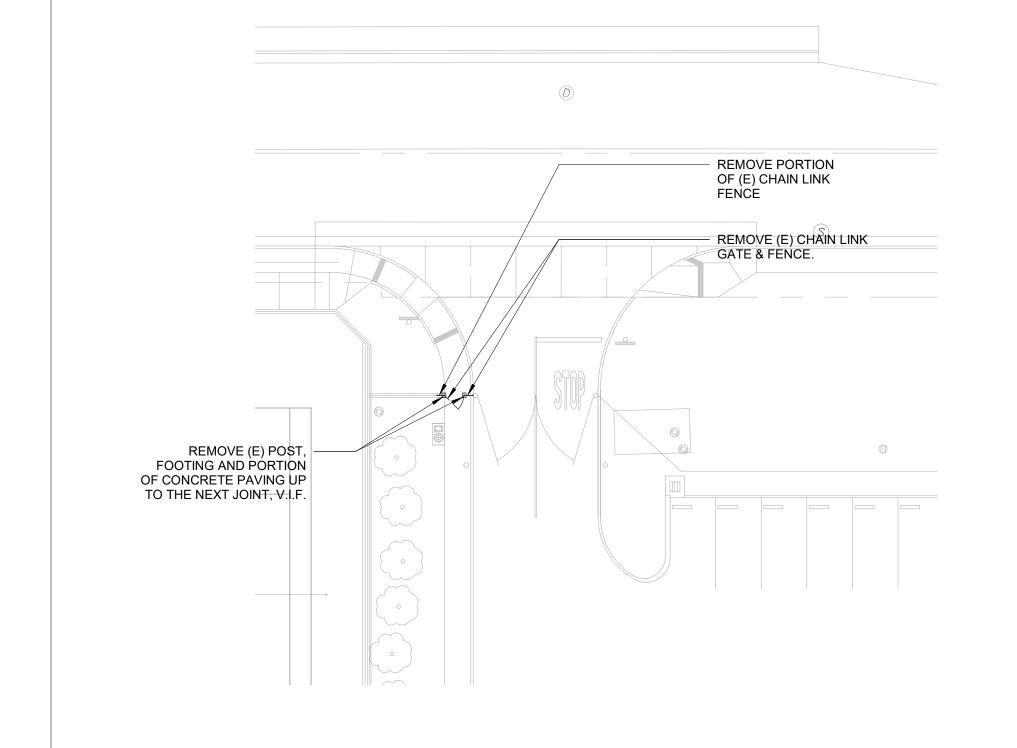
PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

PARTIAL SITE PLAN AND SITE DETAILS

11.2





1" = 20'-0" 7 ENLARGED DEMO SITE PLAN

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

SA APP. NO: UZ-1ZZ 19Z

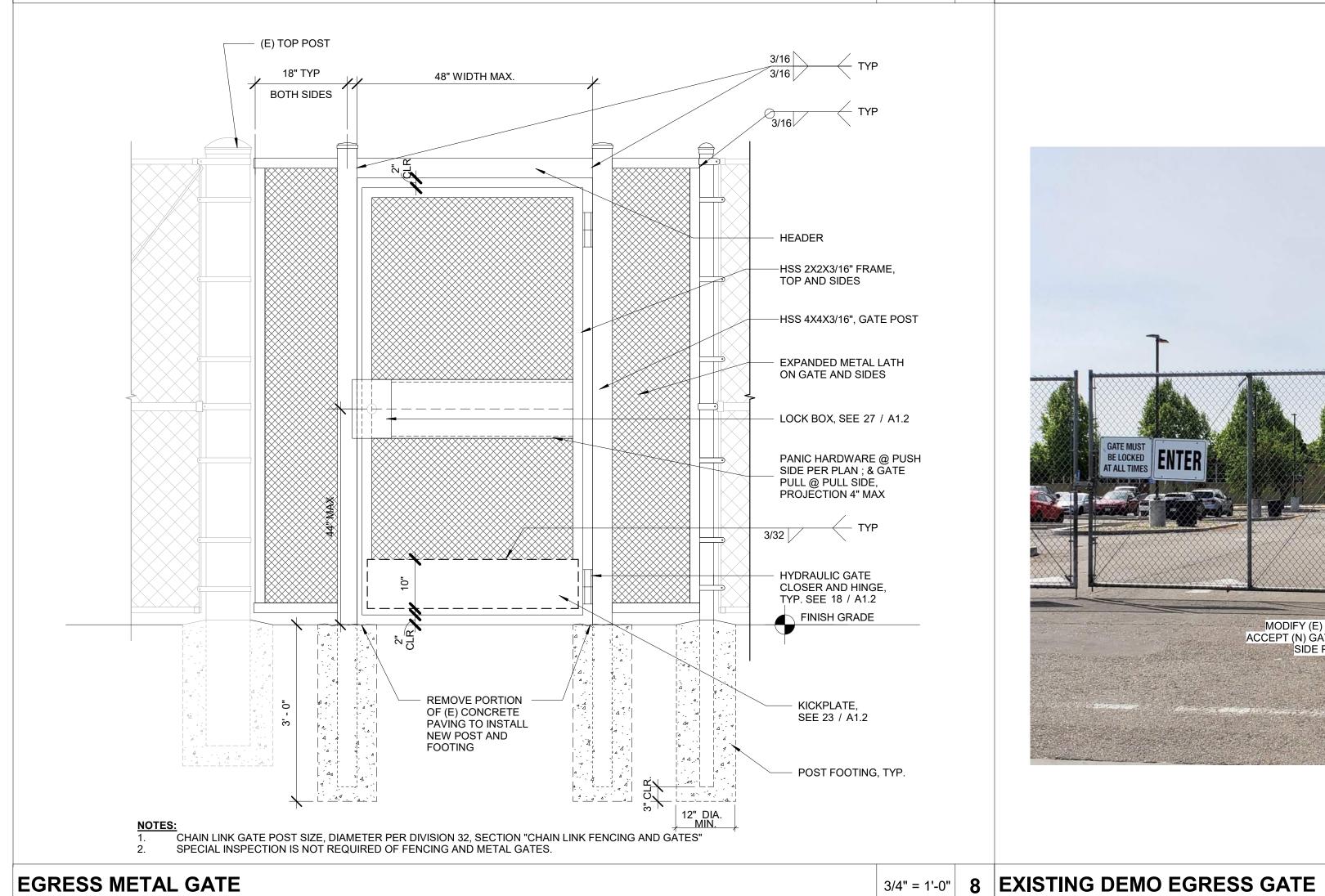
COMMUNITY
ARCHITECTURE

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1" = 20'-0" **2**

1/2" = 1'-0" 4





SUSD

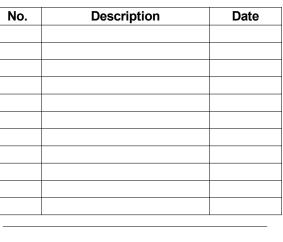
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS



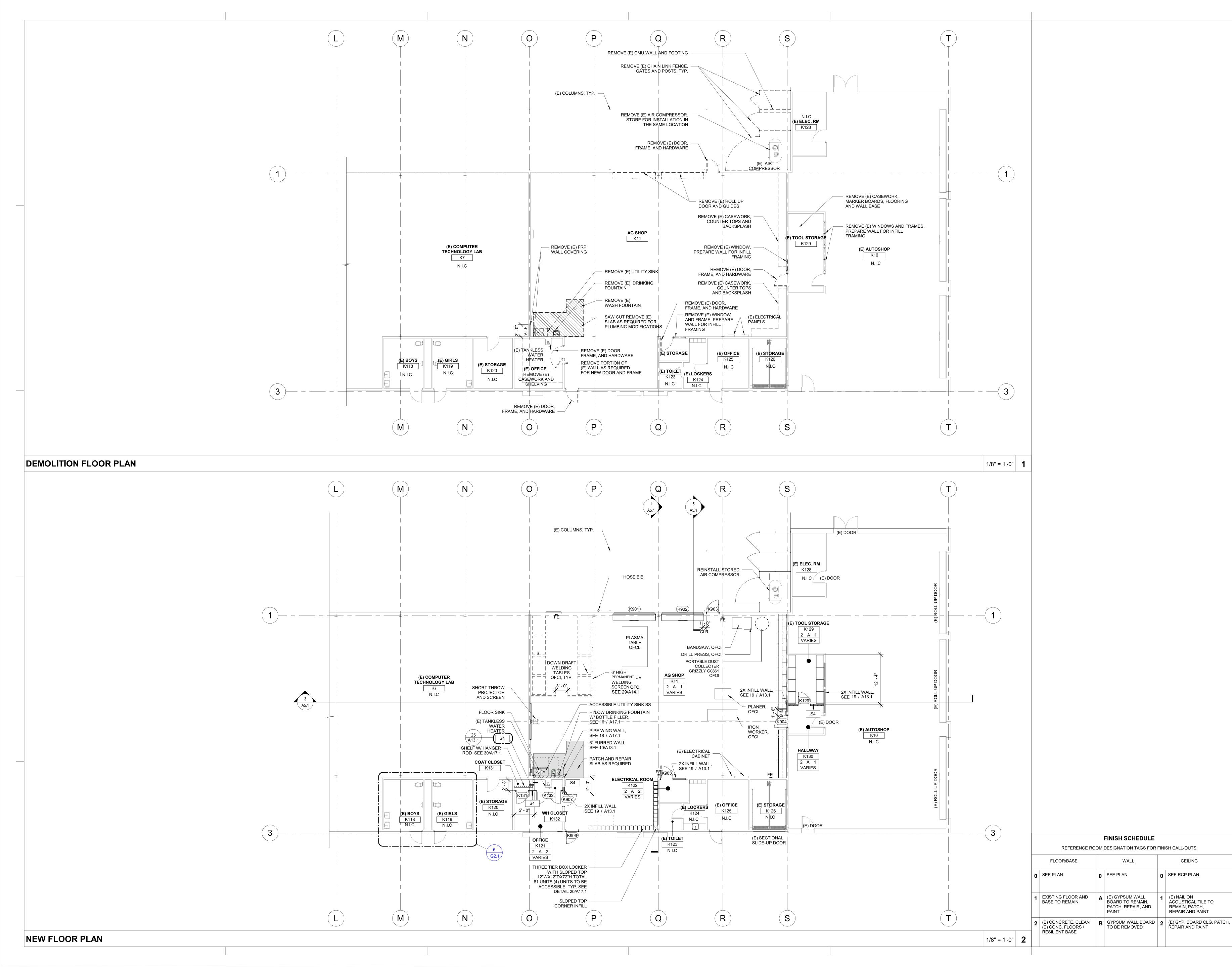
PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

ENLARGED SITE PLAN AND SITE

A13

DETAILS



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

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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

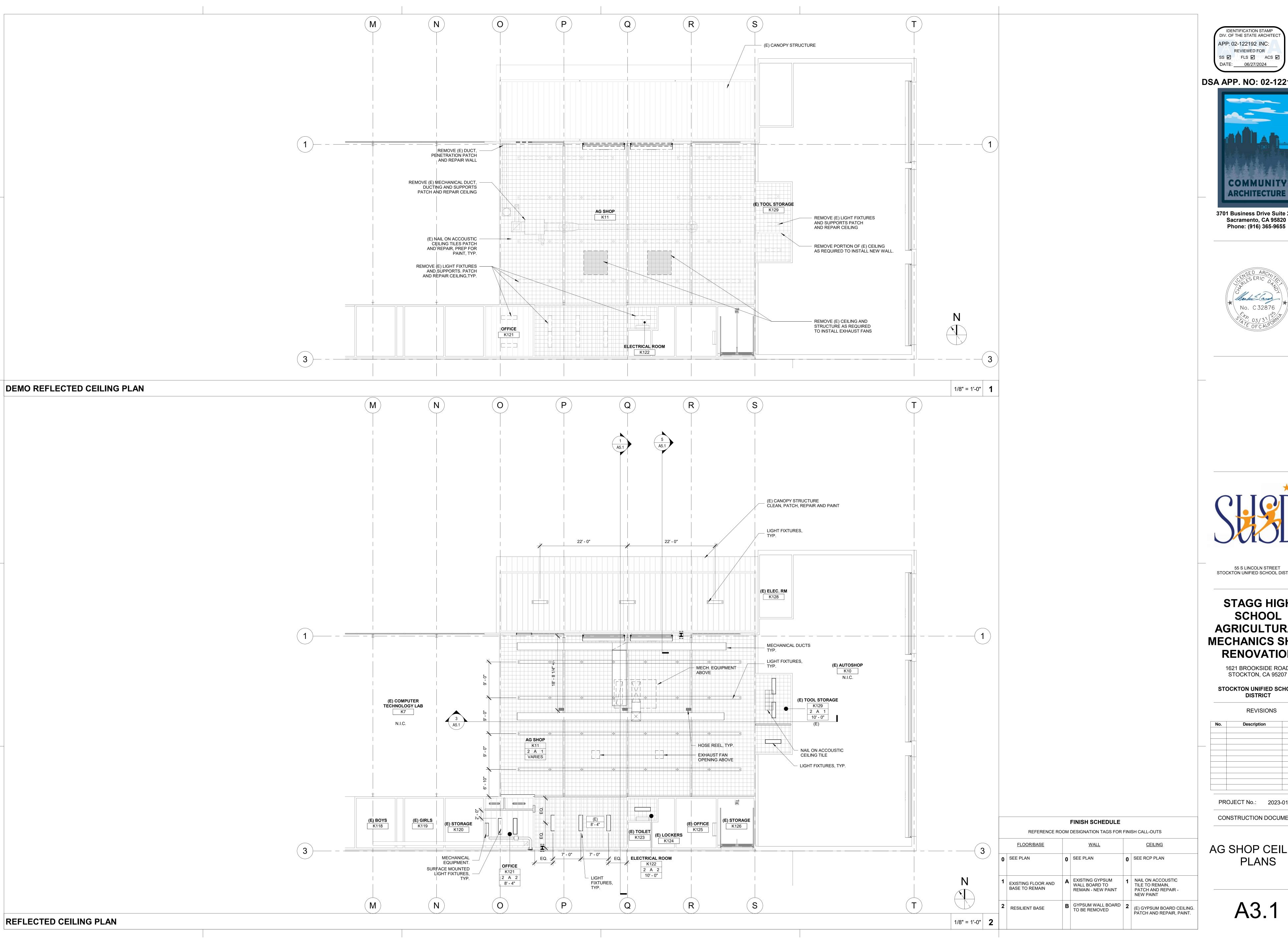
PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

<u>CEILING</u>

ÀCOUSTICAL TILE TO

REMAIN, PATCH, REPAIR AND PAINT AG SHOP FLOOR **PLANS**



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DSA APP. NO: 02-122192



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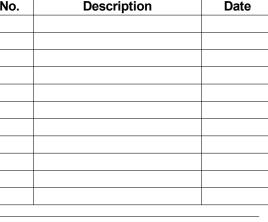
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP RENOVATION**

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

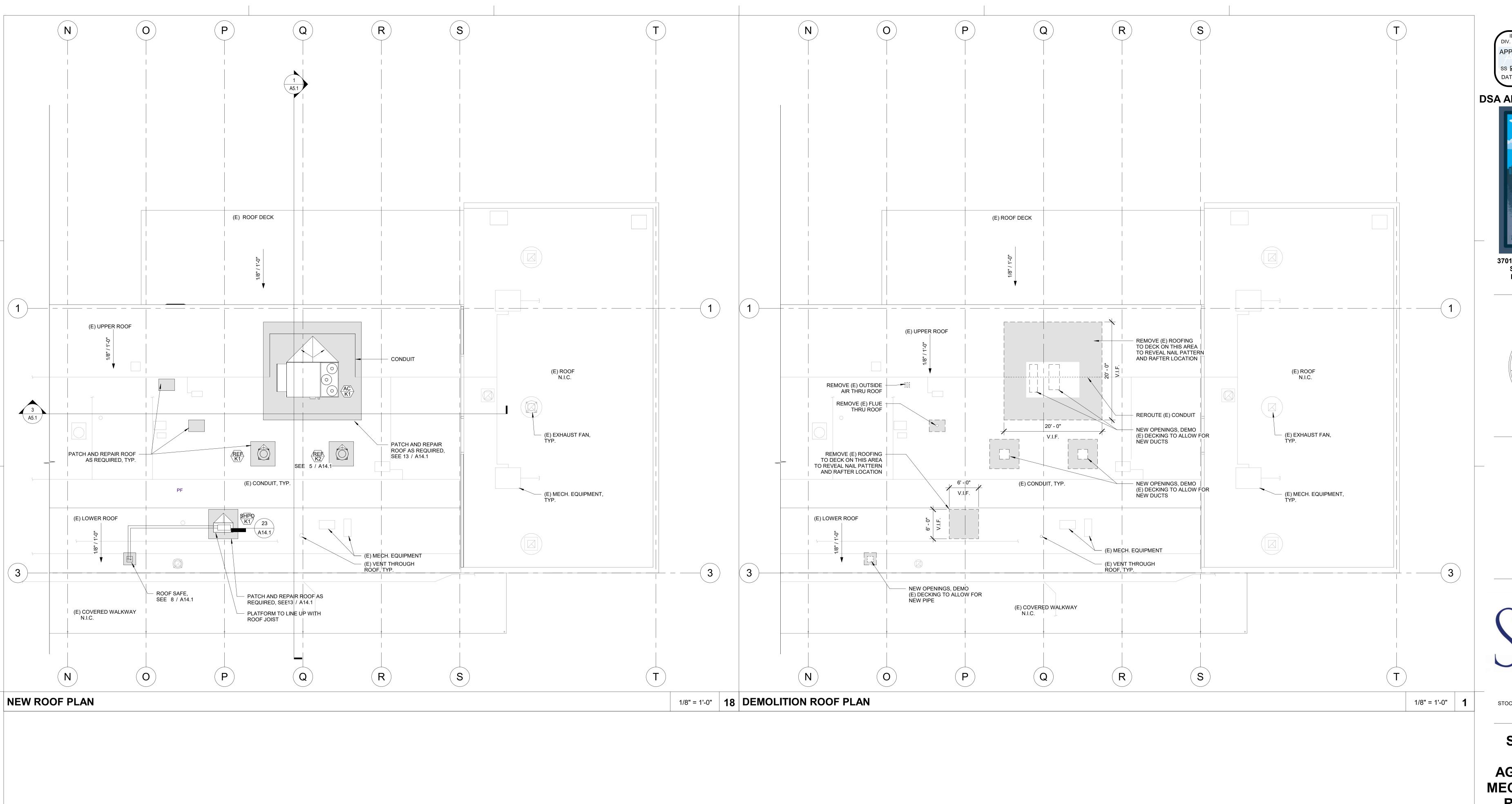
REVISIONS



PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

AG SHOP CEILING **PLANS**





DSA APP. NO: 02-122192



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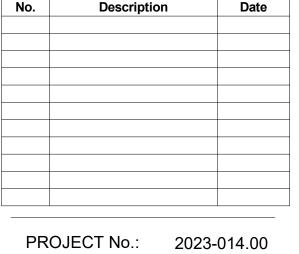
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

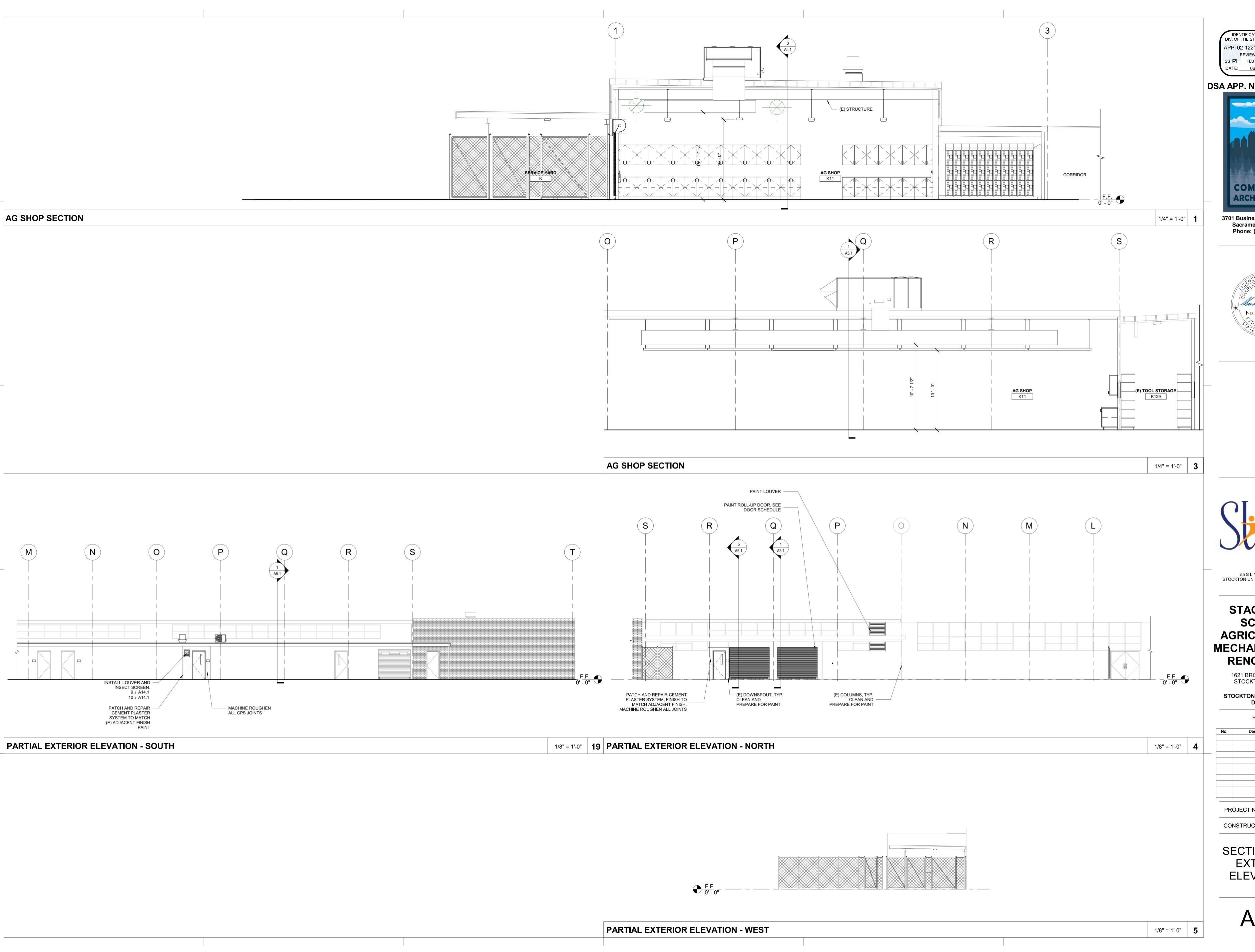
REVISIONS



CONSTRUCTION DOCUMENTS

AG SHOP ROOF PLANS

A4.1



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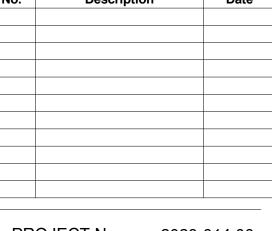
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP RENOVATION**

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

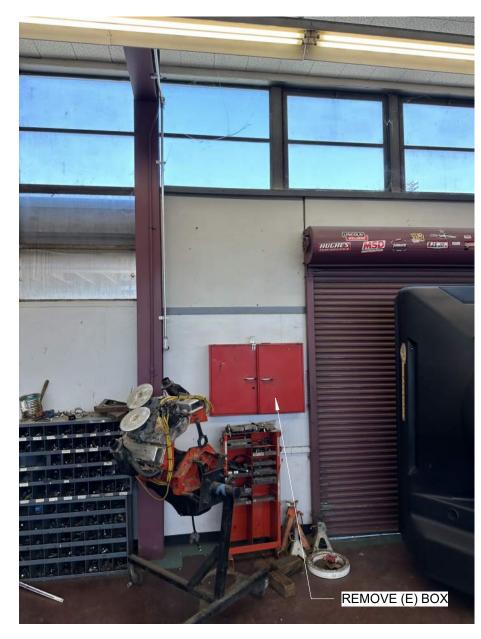
REVISIONS



PROJECT No.: 2023-014.00 CONSTRUCTION DOCUMENTS

SECTIONS AND **EXTERIOR ELEVATIONS**









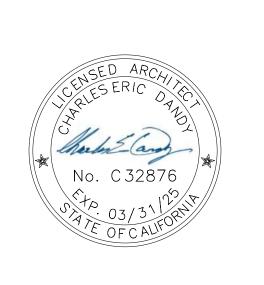


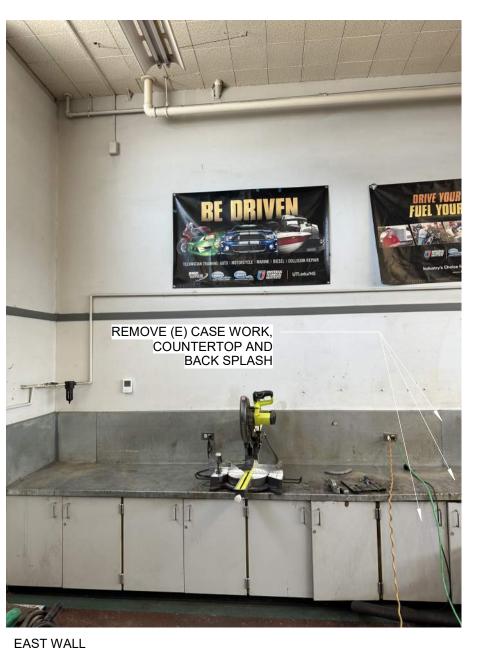


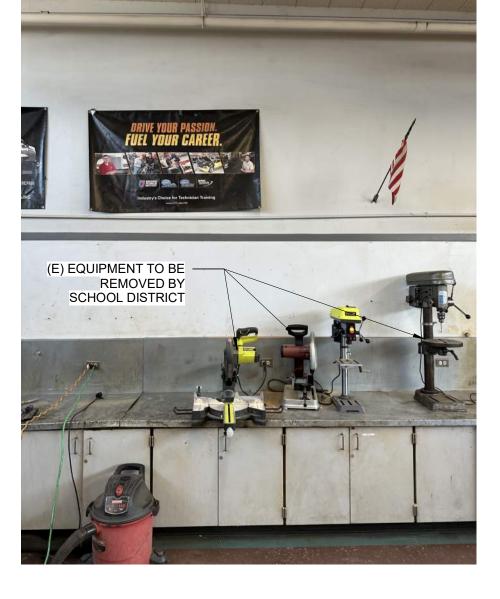


IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

APP: 02-122192 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹









REMOVE (E) WINDOW AND DOOR FRAME



REMOVE (E) CURTAIN

PAINT ALL (E) EXPOSED PIPING, AND CONDUIT, TYP.





55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP**

1/2" = 1'-0" **2**



STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

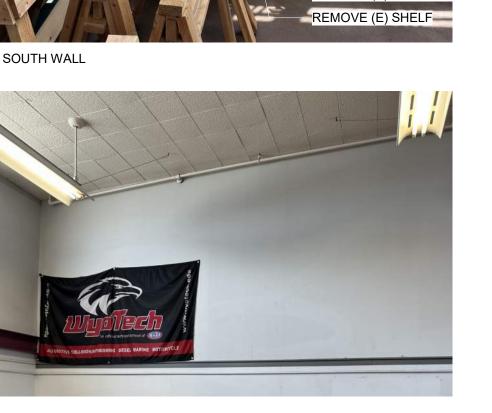
No.	Description	Date
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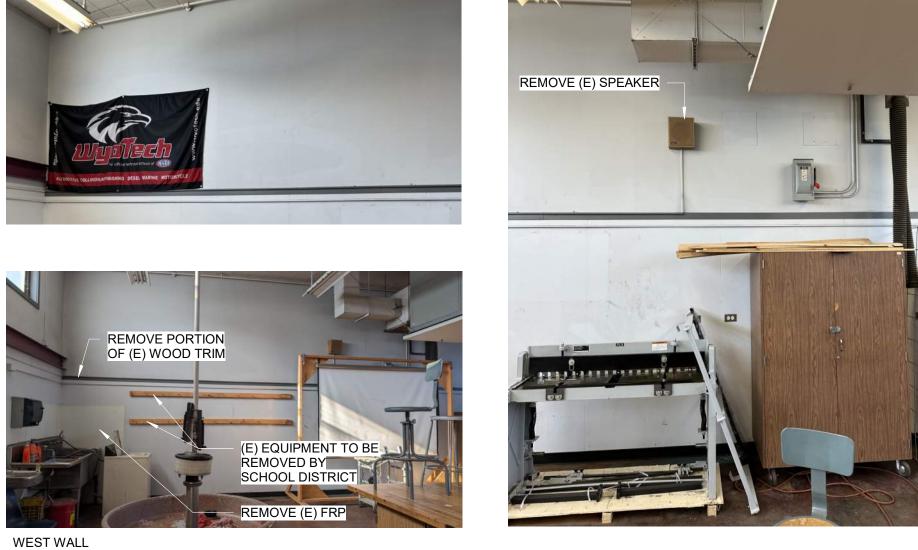
PROJECT No.: 2023-014.00 CONSTRUCTION DOCUMENTS

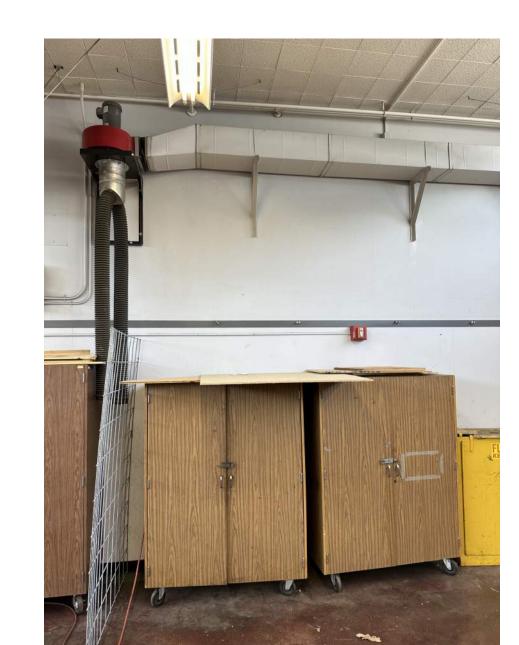
> INTERIOR PHOTOS

EXISTING

PAINT ALL (E) EXPOSED PIPING, AND CONDUIT, TYP.









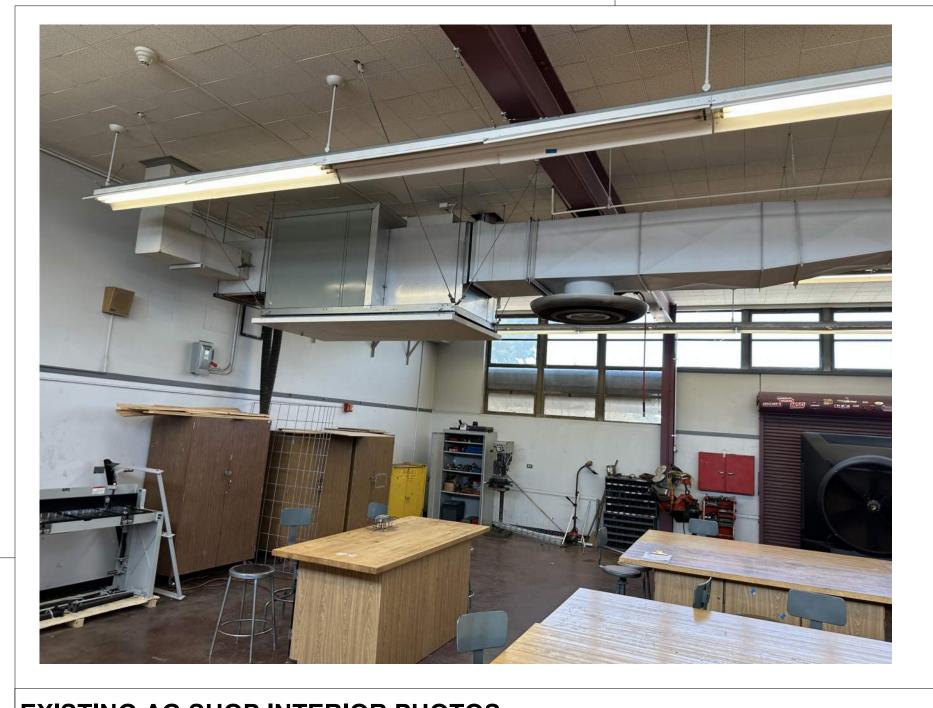


REMOVE (E) WALL BASE, TYP.

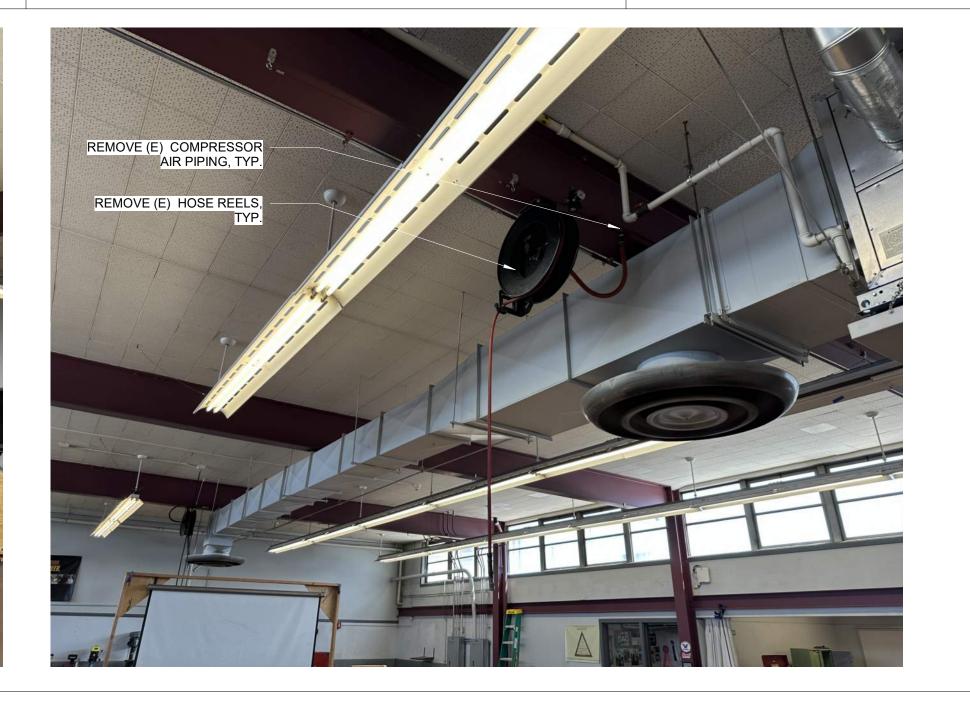




EXISTING AG SHOP INTERIOR PHOTOS







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

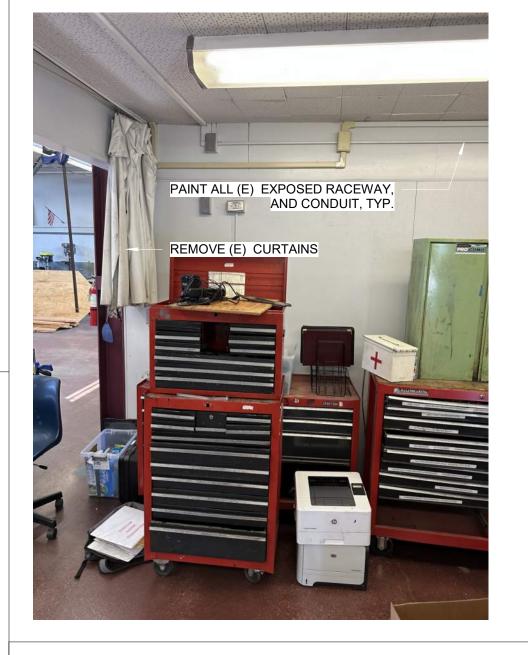
DSA APP. NO: 02-122192



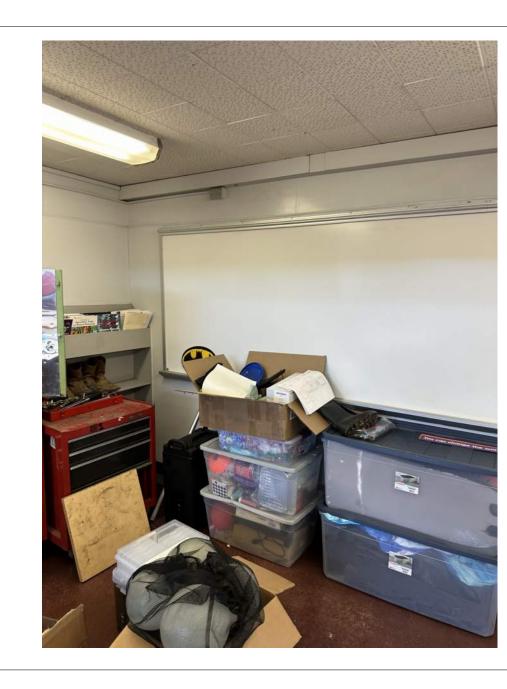
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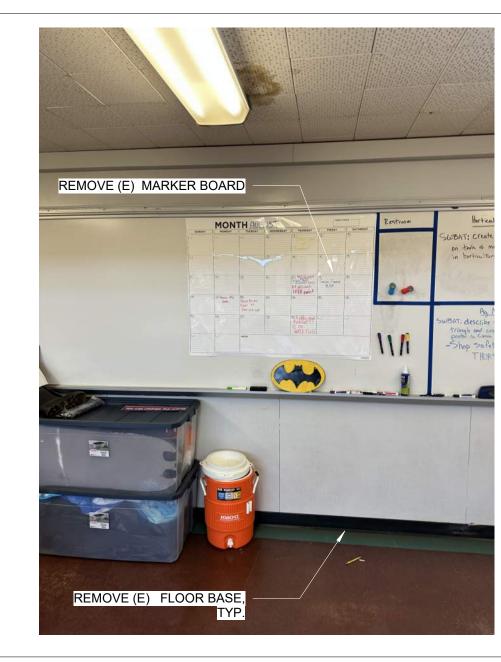
1/2" = 1'-0" **2**

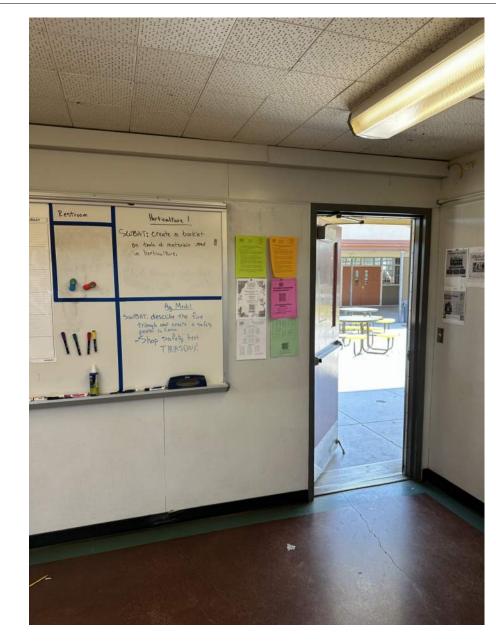
EXISTING AG SHOP INTERIOR PHOTOS















55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH

SCHOOL

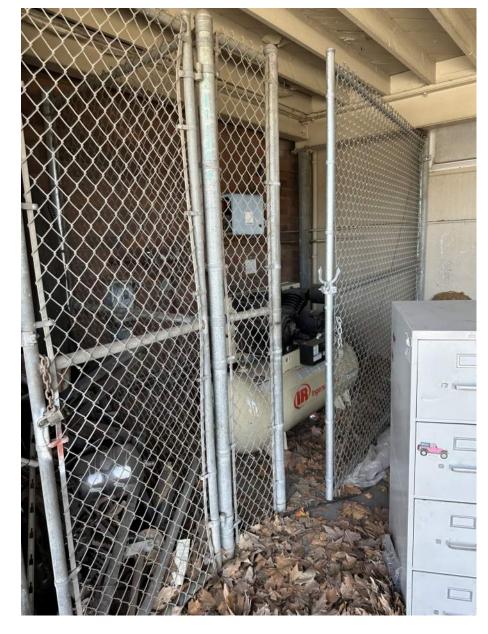
AGRICULTURAL

MECHANICS SHOP

RENOVATION

1621 BROOKSIDE ROAD STOCKTON, CA 95207

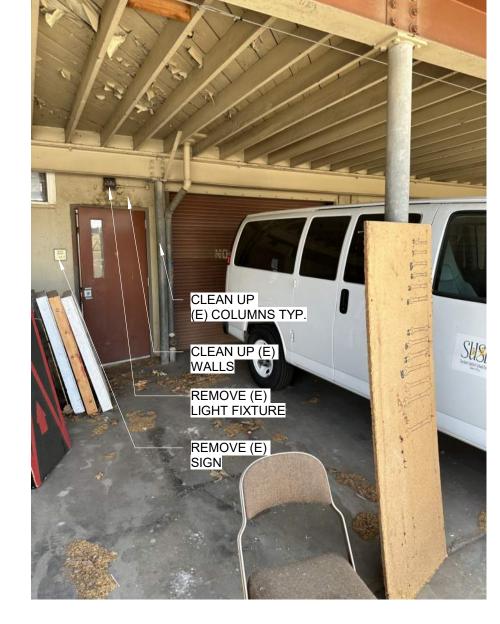
EXISTING LOBBY INTERIOR PHOTOS



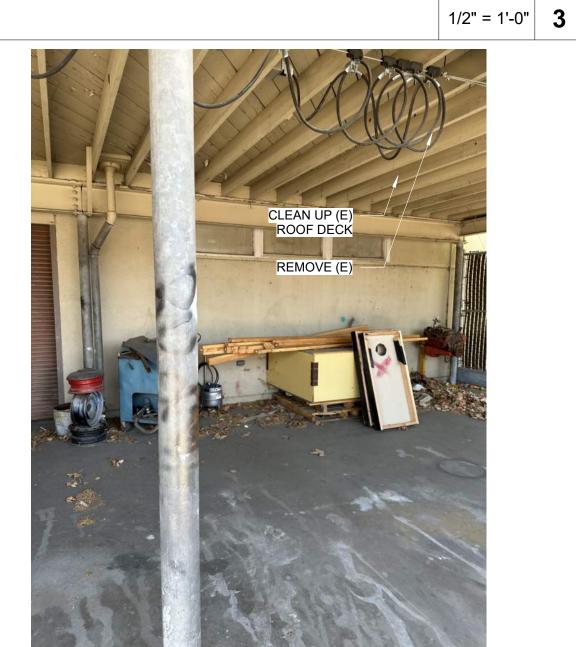


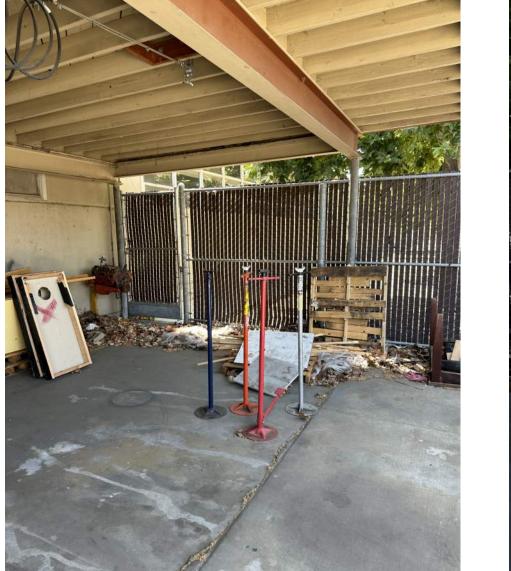


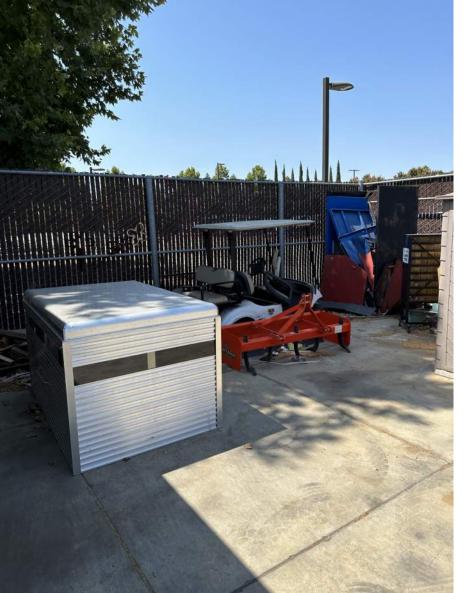


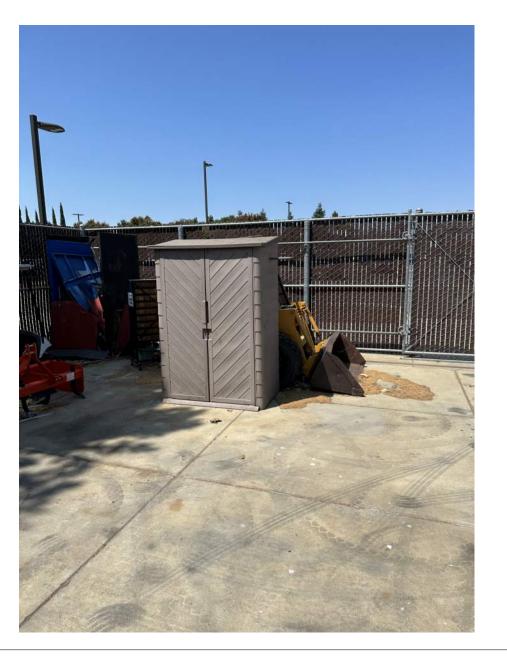


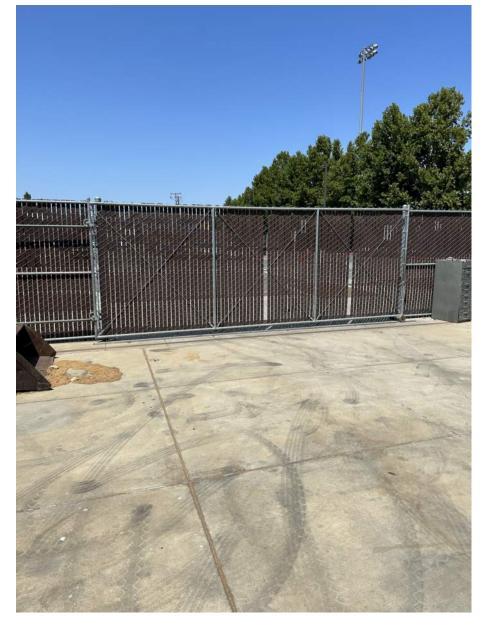


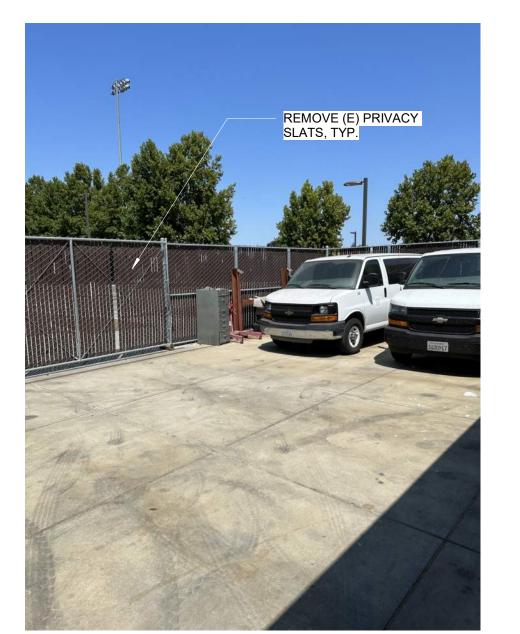


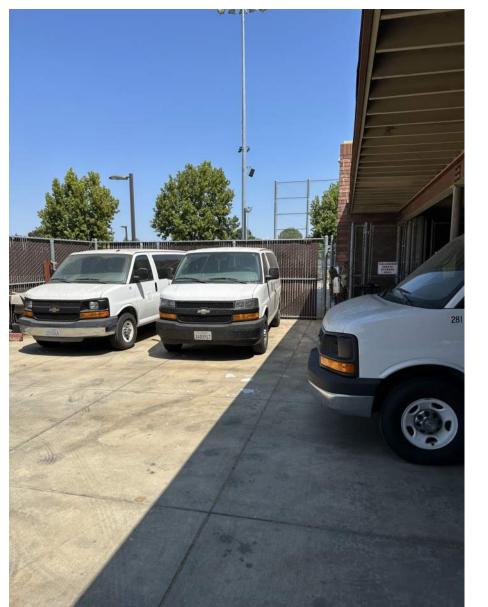


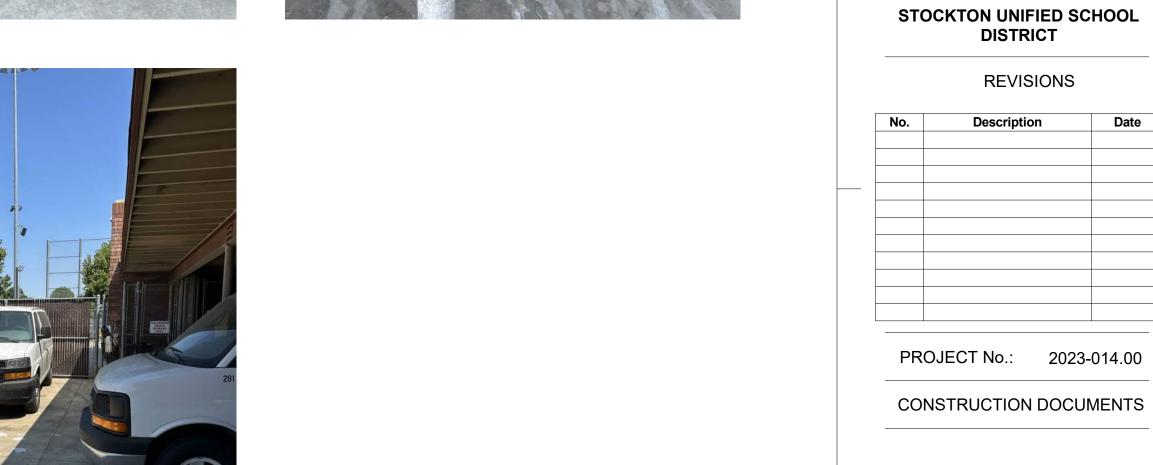






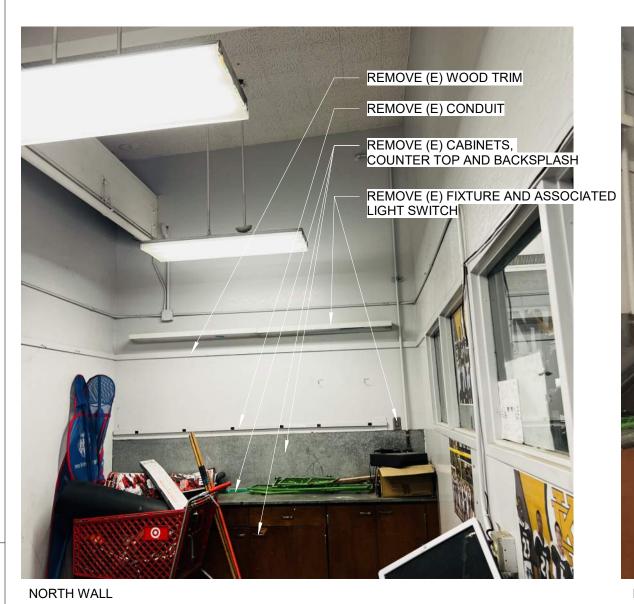




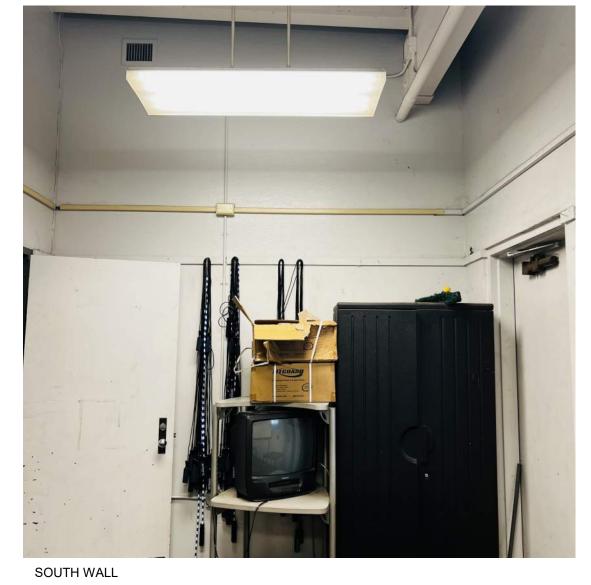


EXISTING INTERIOR PHOTOS

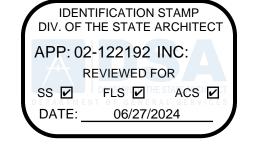
17 2











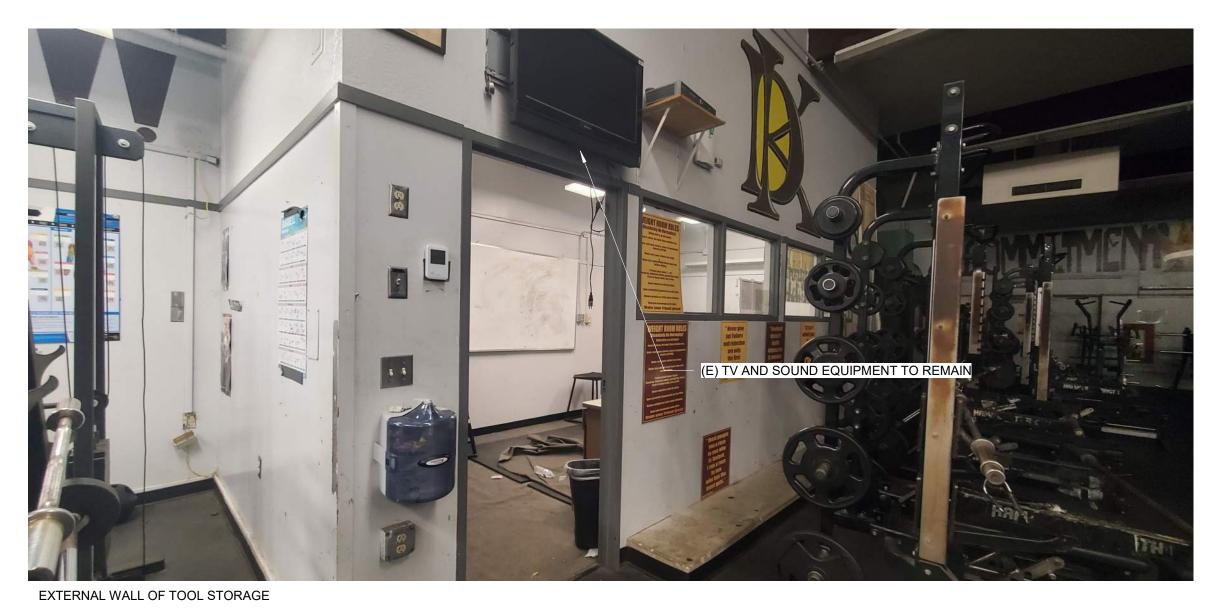
DSA APP. NO: 02-122192

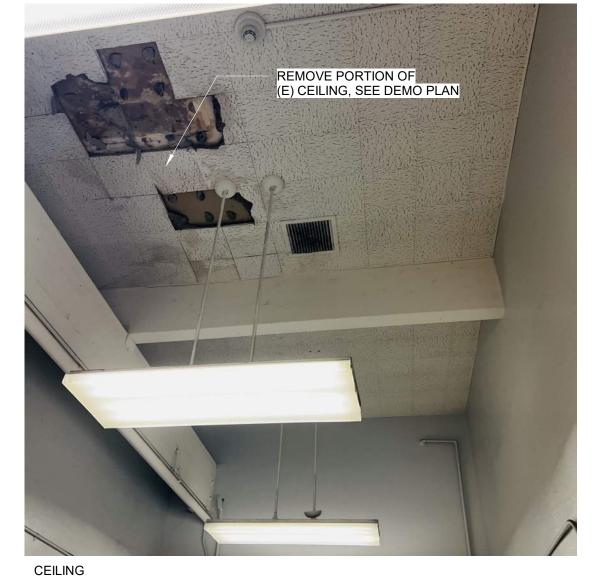




REMOVE (E) MARKERBOARD
REMOVE (E) POWER AND DATA
OUTLET

EXISTING STORAGE INTERIOR PHOTOS





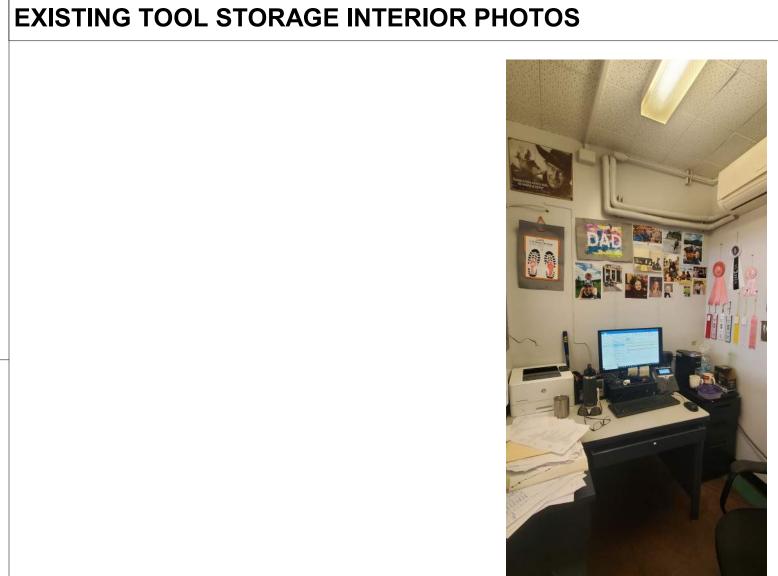




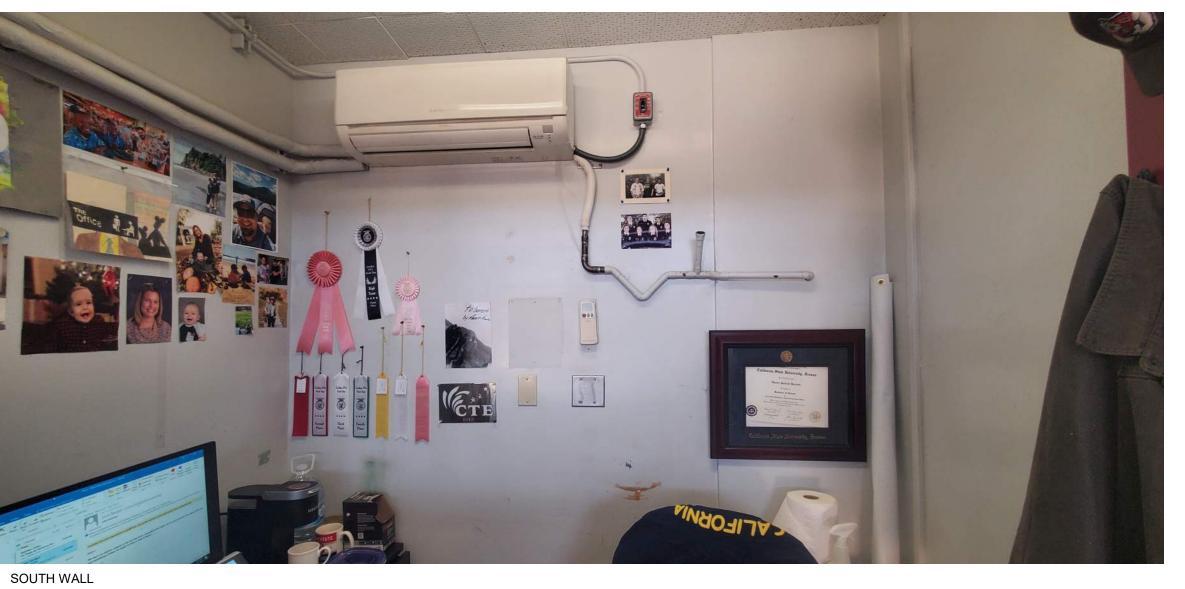
EAST WALL

1/2" = 1'-0" **12**

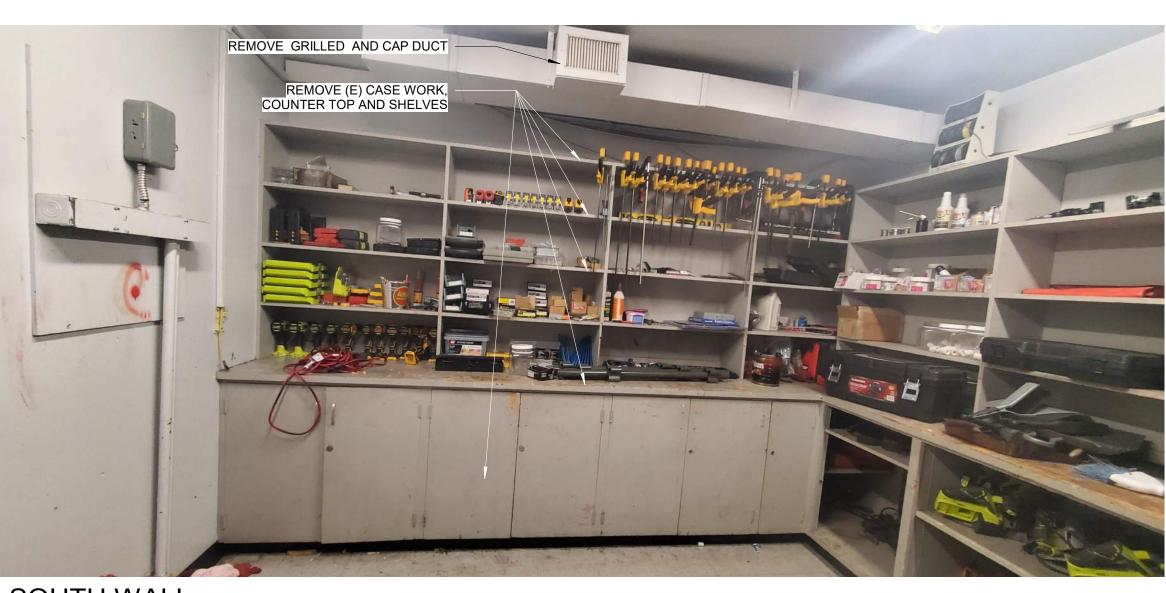
1/2" = 1'-0" **14**



EAST WALL







SOUTH WALL

1621 BROOKSIDE ROAD STOCKTON, CA 95207 STOCKTON UNIFIED SCHOOL DISTRICT

55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH

SCHOOL

AGRICULTURAL

MECHANICS SHOP

RENOVATION

REVISIONS

No.	Descriptio	n l	Date
PR	OJECT No.:	2023-014	.00

CONSTRUCTION DOCUMENTS

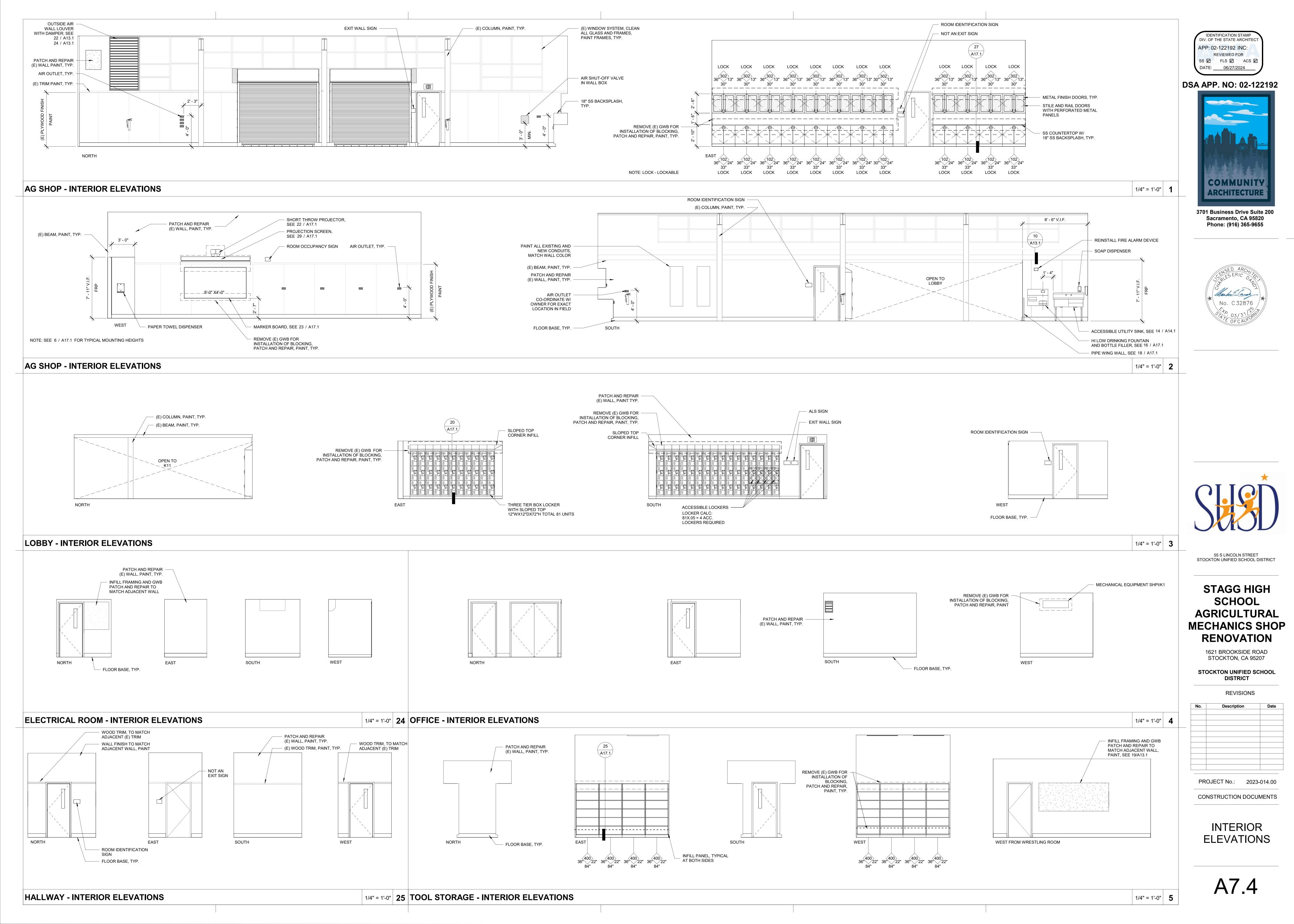
EXISTING INTERIOR PHOTOS

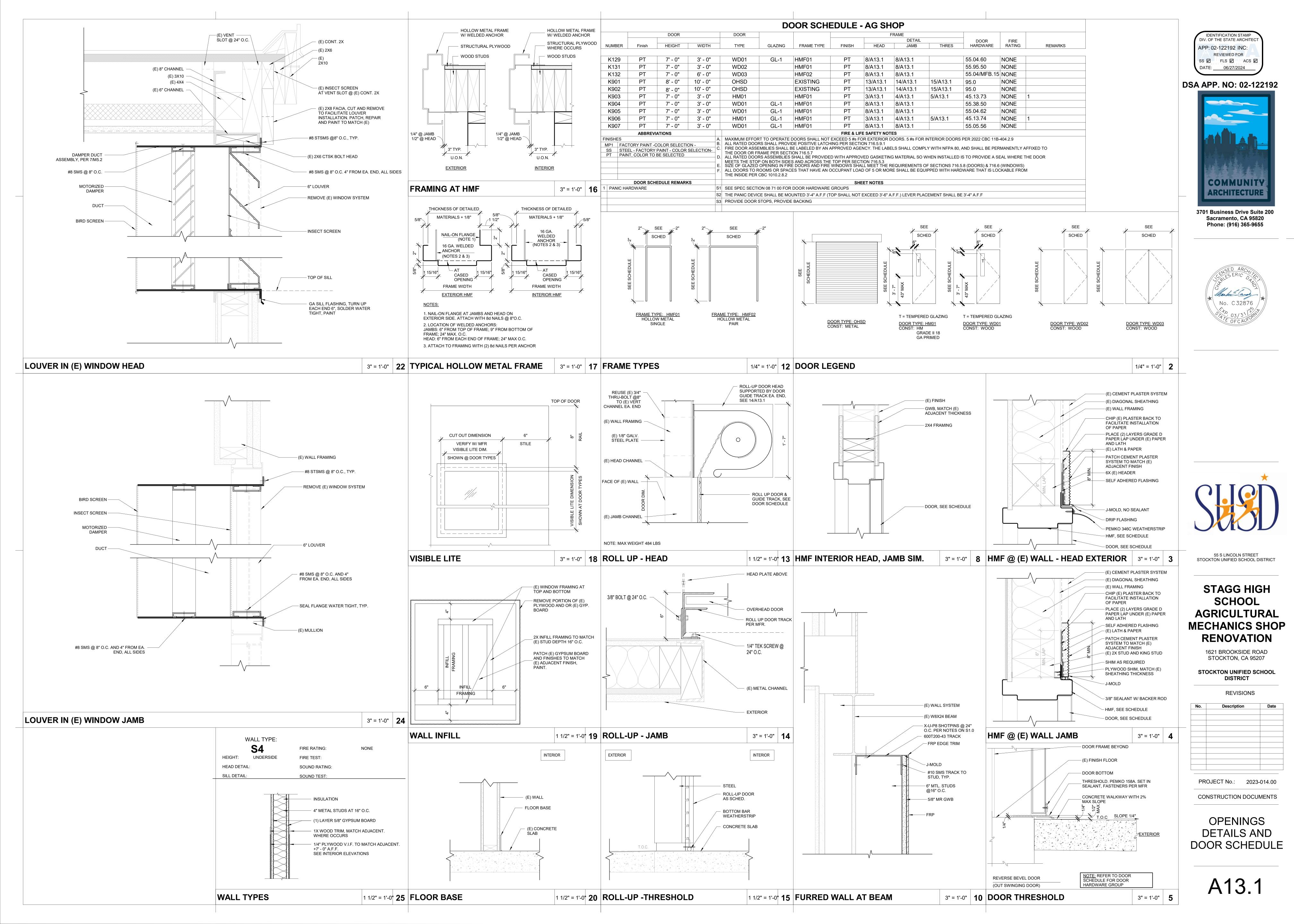
REMOVE (E) SHELVES – AND COUNTER TOP WEST WALL

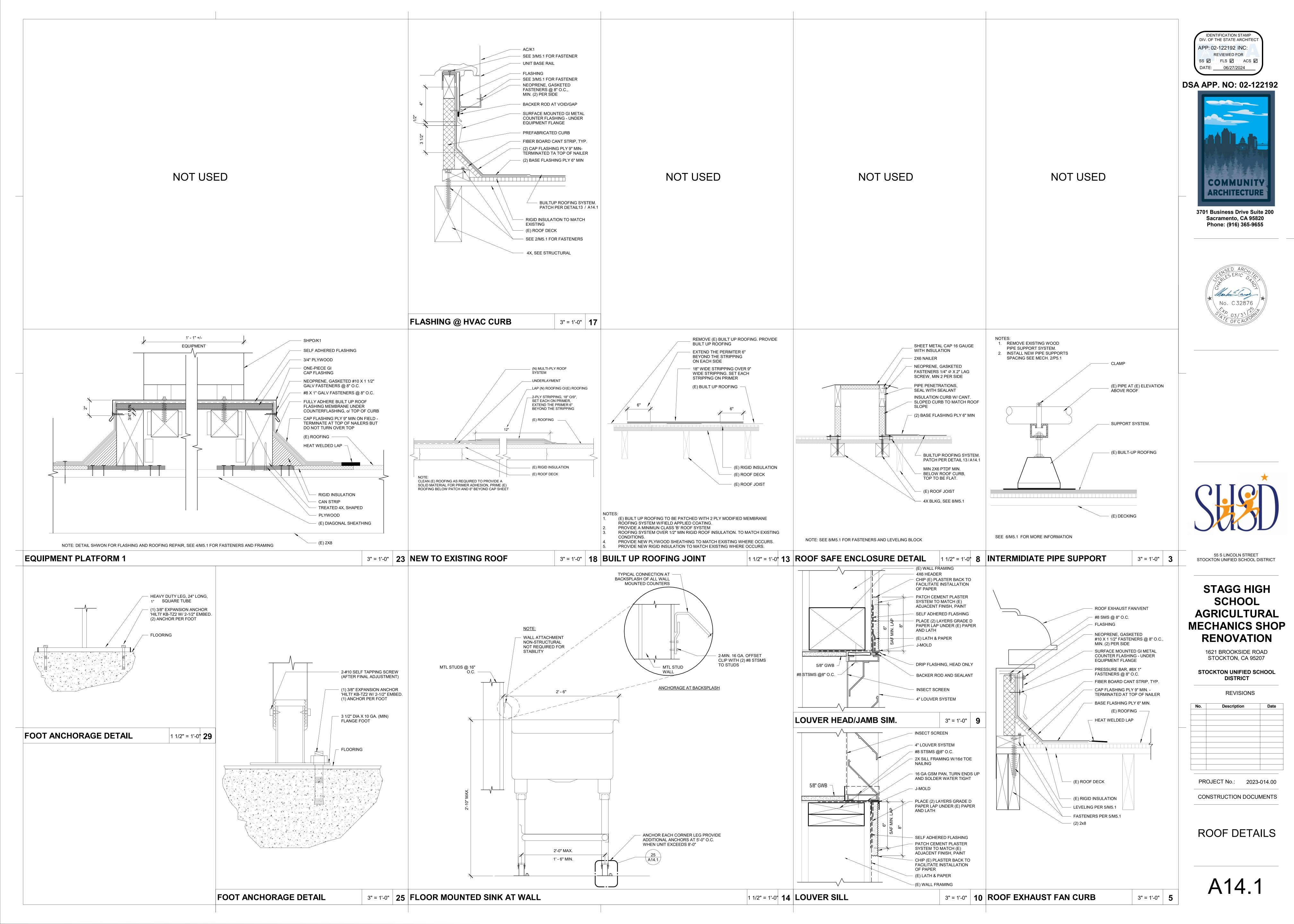
SAW CUT CEILING/ROOF TO ADD NEW OPENING

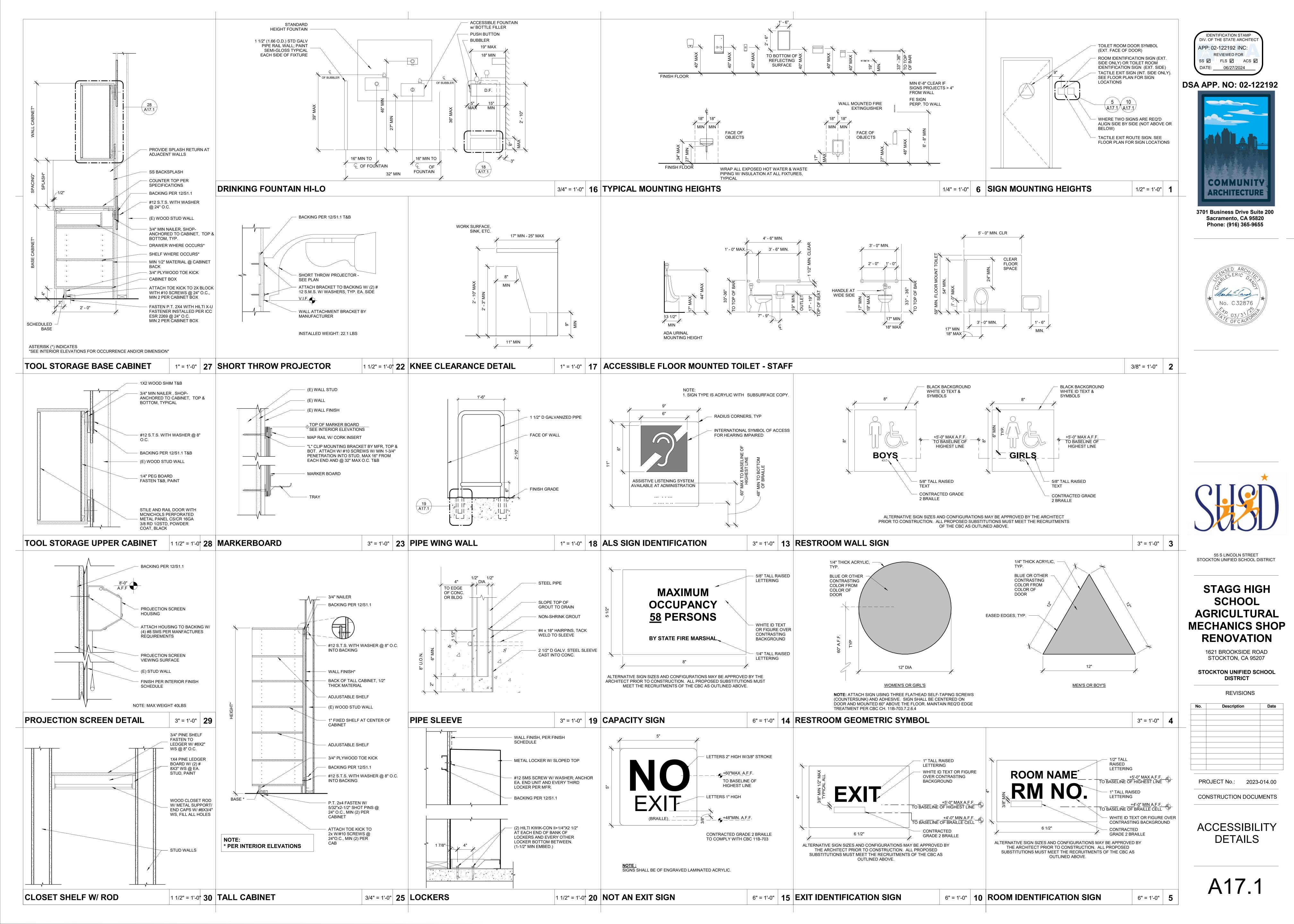
EXISTING OFFICE INTERIOR PHOTOS

1/2" = 1'-0" **5**









STRUC	TURAL ABBRE	VIATIO	NS
@ AB AC	AT ANCHOR BOLTS ASPHALTIC	LFRS LLH	LATERAL FORCE RESISTING SYTEM LONG LEG
AFF	CONCRETE ABOVE FINISH FLOOR	LLV LP	HORIZONTAL LONG LEG VERTICAL LOW POINT
BN BEV	BOUNDARY NAILING BEVELED	LF LS LT WT LVL	LAG SCREW LIGHT WEIGHT LAMINATED
BOC	BOTTOM OF CONCRETE		VENEER LUMBER
BOF	BOTTOM OF FOOTING	MU	MECHANICAL UNIT
CIP CJ	CAST IN PLACE CONSTRUCTION JOINT	(N) NIC NTS NSG	NEW NOT IN CONTRACT NOT TO SCALE NON SHRINK GROUT
CJP CL CMU	COMPLETE JOINT PENETRATION CENTER LINE CONCRETE	0C 0D 0SB	ON CENTER OUTSIDE DIAMETER ORIENTED STRAND
COL	MASONRY UNIT COLUMN	OWSG	BOARD OPEN WEB STEEL
CONC CONN CONT	CONCRETE CONNECTION CONTINUOUS	Lemo	GIRDER OPEN WEB STEEL JOIST
DF	DOUGLAS FIR	OH BCC	OPPOSITE HAND
(E) EF	EXISTING EACH FACE	PCC PSF PSI	PRECAST CONCRETE POUNDS PER SQUARE FOOT POUNDS PER
EM EJ EOS	EACH WAY EXPANSION JOINT EDGE OF SLAB	PT	SQUARE INCH PRESSURE TREATED POINT
EN ES	EDGE NAILING EACH SIDE	PW	PLYWOOD
FA FD	FRAMING ANCHOR FLOOR DRAIN	R SAD	RADIUS SEE ARCHITECTURAL
FF FLG FN	FINISH FLOOR FLANGE FIELD NAILING	SDST	DRAWINGS SELF DRILLING
FOC	FACE OF CONCRETE	SIM	SELF TAPPING SIMILAR
FOM	FACE OF MASONRY	SCJ SLH	SLIP CONTROL JOIN' SHORT LEG HORIZONTAL
F <i>0</i> S	FACE OF STUD	SLV	SHORT LEG VERTICAL
GLB	GLUE LAMINATED BEAM	506 SP	SLAB ON GRADE STRUCTURAL
GSM GT	GALVANIZED SHEET METAL GIRDER TRUSS	55	PLYWOOD STAINLESS STEEL
HAS	HEADED ANCHOR	T24	TITLE 24 CALIFORNIA
HDG	STUD HOT DIPPED GALVANIZED	TOC TOF	CODE TOP OF CONCRETE TOP OF FOOTING
HP HSB	HIGH POINT HIGH STRENGTH BOLT	TOM T.O. SLAB	TOP OF FRAMING TOP OF MASONRY TOP OF SLAB
HSS	HOLLOW STRUCTURAL SECTION	TOS TOW	TOP OF STEEL TOP OF WALL
HT	HIP TRUSS	UNO	UNLESS NOTED OTHERWISE
ID IT	INSIDE DIAMETER	VIF	VERIFY IN FIELD
1.1	177 6 1 4 1 16 6		

WATER STOP

FABRIC

WELDED WIRE

MEAKENED PLANE

JACK TRUSS

EXPANSION ANCHOR

\$ ADHESIVE ANCHOR NOTES

WHERE "EPOXY" OR "EXPANSION" ANCHORS ARE INDICATED IN DRAWINGS THESE NOTES & SCHEDULE A B SHALL APPLY. \si.o/\si.o/

2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE ICC REPORT.

3. PERIODIC SPECIAL INSPECTION IS REQUIRED, UNLESS NOTED OTHERWISE IN THESE DRAWINGS. VERIFICATION OF THE FOLLOWING IS REQUIRED DURING SPECIAL INSPECTION:

A. ANCHOR TYPE AND DIMENSIONS. B. CONCRETE TYPE AND COMPRESSIVE STRENGTH.

C. HOLE DIMENSIONS AND HOLE CLEANING PROCEDURES. D. ANCHOR SPACING, EDGE DISTANCES, CONCRETE/MASONRY THICKNESS, AND ANCHOR EMBEDMENT DEPTH.

E. TIGHTENING TORQUE. F. COMPLIANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. 4. WHEN INSTALLING DRILLED IN ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING

5. ALL POST INSTALLED EXPANSION & ADHESIVE ANCHORS SHALL BE TESTED TO THE VALUES GIVEN IN THE SCHEDULE.

a. SILL BOLTING APPLICATIONS: 10% OF THE ANCHORS SHALL BE TESTED. b. 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. 6. THE TESTING OF THE ANCHORS SHALL BE DONE BY THE TESTING LABORATORY IN THE PRESENCE OF THE PROJECT INSPECTOR & A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE GOVERNING AGENCY AND ARCHITECT/STRUCTURAL ENGINEER.

HAMMER DRILLED HIT-RE 500-V3 EPOXY ADHESIVE ANCHOR

			<i>x</i> - / 1101017		
ICC E	SR #3814 REIS	SUED 2021			AL WEIGHT TE (145 PCF)
REBAR/BOLT SIZE	MINIMUM EMBEDMENT*	MINIMUM CONCRETE THICKNESS	MAX EMBEDMENT	MINIMUM SPACING AND EDGE DISTANCE	PULL TEST VALUE AT MIN EMBEDMENT (LBS)
#3 OR 3/8	2 3/8"	3 5/8"	7 1/2"	17/8"	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 7/8	3 1/2"	5 1/2"	17 1/2"	4 3/8"	4000
#8 OR I	4"	6 1/4"	20"	5"	4850

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.

6. PULL TEST VALUES FOR EMBEDMENTS GREATER THAN MIN ARE INDICATED

EXPANSION ANCHORS

91.07	HILTI KMIK I ICC ESR #42				NORMAL WEIGHT CONCRETE (145 PCF)
SIZE	NOMINAL EMBEDMENT	MINIMUM CONCRETE THICKNESS	MINIMUM EDGE DISTANCE	TORQUE TEST VALUE CARBO STEEL (FT-LBS	VALUE STAINLESS
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

MINIMUM F'C = 2500 PSI 2. DESIGN BASED ON CRACKED CONCRETE 3. SPACING BETWEEN ANCHORS IS 12 DIAMETERS OR MORE

MOOD

(SUBMIT SHOP DRAWINGS BEFORE FABRICATION OF GLU-LAM MEMBERS) I. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:

DOUGLAS FIR- LARCH WESTERN LUMBER GRADING RULES WWPA U.S. PRODUCT STANDARD PS 1-19 FOR SOFT PLYWOOD PLYWOOD.

2. MINIMUM GRADES SHALL BE: STRUCTURAL FRAMING

DF#I TYPICAL MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION STRUCTURAL PLYWOOD (UNO) MALL PLYMOOD: 15/32" APA RATED STRUCT | SHEATHING, 5 PLY 32/16, EXPOSURE 1.

ROOF PLYWOOD: 15/32" APA RATED STRUCT | SHEATHING, 5 PLY, 32/16, EXPOSURE | 3. WALLS SHALL HAVE DOUBLE TOP PLATES, LAPPED AT WALL & PARTITION INTERSECTION WITH 3-16d NAILS. SPLICE UPPER AND LOWER PLATES WITH 'MIN' SPLICE AS SHOWN IN TYPICAL DETAIL, UNO.

4. PROVIDE SOLID BLKG BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS. 5. 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. 6. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16". 7. 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 70% OF THE SHANK DIAMETER IN WOOD. 8. LAG SCREMS AND MOOD SCREMS SHALL BE SCREMED AND NOT DRIVEN INTO

9. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA × 3/16"	3" SQ × .195"
5/8"	3" DIA x 1/4"	3" SQ × .25"
3/4"	3" DIA x 1/4"	3" 5Q × .315"
7/8"	3 1/2" DIA × 5/16"	3" SQ × .315"
["	4" DIA × 3/8"	3 1/2" 5Q × .39"

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

II. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. 12. BLOCK SP JOINTS WITH 3x4 FLAT 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" O.C. MAXIMUM. 14. WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE,

SKEW, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD. 2× \$ 3× MEMBERS U HANGERS HU HANGERS 4x MEMBERS 6× MEMBERS HUTF HANGERS I JOIST MEMBERS BA HANGERS

GLU LAM MEMBERS LEG HANGERS PCZ/EPCZ POST CAPS 4x \$ 6x POSTS 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, STRUCTURAL NAILS

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
l0d	10d COMM	0.148"	3 "
16d	16d COMM	0.162"	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 NOT PERMITTED

21. MINIMUM FASTENING OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS

OLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.						
SHEATHING THICKNESS 't'	EDGE FASTENING	FIELD FASTENING				
't' <u><</u> 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD			
3/8" < 't' < 3/4"	10d @ 6" O.C.	10d @ 12" 0.C.	NOOD			
't' <u><</u> 3/8"	#8 FLATHEAD SDS @ 6" O.C.	#8 FLATHEAD SDS @ 12" O.C.	COLD FORMED			
3/8" < 't' < 3/4"	#8 FLATHEAD SDS @ 6" O.C.	#8 FLATHEAD SDS @ 12" O.C.	STEEL			

COLD FORMED METAL STUD & JOIST NOTES:

GAUGE	2	0	18	3	10	6	1-	4
MIN. THICK	0.0	330	30 0.0430		0.0540		0.0680	
DEPTH "D"	Sx	l×	Sx	l×	Sx	l×	Sx	l×
2 1/2"	0.188	0.235	0.242	0.302	0.296	0.370	0.360	0.450
3 5/8"	0.304	0.551	0.392	0.710	0.481	0.873	0.590	1.069
4"	0.346	0.692	0.446	0.892	0.549	1.098	0.673	1.346
6"	0.598	1.793	0.772	2.316	0.953	2.860	1.175	3.525
8"	0.896	3.582	1.158	4.633	1.434	5.736	1.772	7.089
10"	-	-	1.605	8.025	1.990	9.950	2.465	12.325
12"	-	-	-	-	2.622	15.730	3.253	19.518

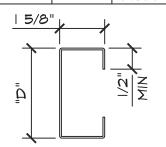


FIG. Z-Z PER ICC ESR-3064P

SPACING U.N.O. IN THESE DRAWINGS.

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. 2. 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-Z.

3. MIN THICKNESS SHOWN IN TABLE FOR THE GAUGE SPECIFIED REPRESENTS 95% OF DESIGN THICKNESS PER 2016 AISI CODE, SECTION BT.I. 4. METAL FRAMING SHALL BE PER ICC ESR NO. 3064P. CONTRACTOR SHALL BE

RESPONSIBLE FOR OBTAINING AGENCY APPROVAL FOR ANY SUBSTITUTIONS. 5. WELDING SHALL BE IN ACCORDANCE W/ AMS DI.3 "STRUCTURAL WELDING CODE - SHEET STEEL" WELDERS SHALL BE AWS CERTIFIED. WELDING RODS: E-70 6. METAL TRACKS SHALL BE SAME GAUGE AS STUDS WHICH IT SUPPORTS.

UNPUNCHED, W/ MIN FLANGE WIDTH OF I I/4", EXCEPT WHERE SLOTTED SLIP TRACKS ARE REQ'D UNLESS NOTED OTHERWISE ON PLANS. SEE TYPICAL DETAILS.

7. METAL STUDS SHALL NOT HAVE PUNCH-OUTS CLOSER THAN 12" FROM THE END OF THE STUD TO THE CENTER OF THE PUNCH-OUT 8. 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. 9. STUD TO STUD CONNS TO BE MADE W/ (4) #10 SMS @ EA CONTACT TYP UNO.

10. UNLESS INDICATED OTHERWISE BRACING OF METAL STUDS TO BE PER ICC FRAMING SYSTEMS ARE NOT FULLY DETAILED ON THE DRAWINGS, BUT ARE GIVEN TO PROVIDE DESIGN INTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO FABRICATE & INSTALL THE COLD FORMED METAL FRAMING ASSEMBLIES IN ACCORDANCE WITH THESE DOCUMENTS AND THE APPLICABLE CODE. AII

SUBSTITUTIONS FROM THE APPROVED DOCUMENTS MUST BE APPROVED BY ENGINEER AND DSA PRIOR TO INSTALLATION. 12. STUDS SHALL BE MIN 18GA (43 MILS) THICKNESS @ 16" OC SPACING UNO IN THESE DRAWINGS. 12" STUDS SHALL BE MIN. 16qa (54 MILS) THICKNESS @ 16" OC

CONCRETE AND REINFORCING STEEL:

(SUBMIT REBAR SHOP DRAWINGS PRIOR TO FABRICATION) CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19 AS MODIFIED BY CBC. 2. THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS:

SLAB INFILL 3000 PSI (150 PCF)

3. CEMENT SHALL CONFORM TO ASTM C150-18, TYPE II - V.

4. CONCRETE AGGREGATES: NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33-18. 5. REINFORCING SHALL CONFORM TO ASTM A615 -- GRADE 60. UNO 6. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS DI.4-18 USING

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). 8. WIRE FABRIC SHALL CONFORM TO ASTM A1064-17. 9. 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 SLABS (ON GROUND) POSITION IN CENTER OF SLAB IO. ALL BARS SHALL HAVE A CLASS B MINIMUM SPLICE LAP UNO. SEE TABLE IN

THESE DRAWINGS. II. GENERAL:

A. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY DETAILED. B. REFER TO ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ALL MOULDS, GROOVES, ORNAMENTS, CLIPS

AND GROUNDS TO BE CAST IN CONCRETE. 12. CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED

FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SANDBLASTING OR HOSING THE SURFACE 4 TO 6 HOURS AFTER THE POUR WITH A FINE SPRAY. 13. REMOVE ALL DEBRIS FROM THE FORMS BEFORE PLACING ANY CONCRETE.

14. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE 15. MAXIMUM FREE FALL OF CONCRETE SHALL BE 4'-0".

16. NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE COVERED W/ CONC. 17. CONCRETE MIX DESIGN SHALL BE PREPARED PER CBC CHAPTER 19 AND REVIEWED BY THE STRUCTURAL ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO

PLACEMENT. 18. NOTIFY THE STRUCTURAL ENGINEER 48 HOURS PRIOR TO PLACING CONCRETE. 19. CONTRACTOR TO SUBMIT PROPOSED CONTROL AND CONSTRUCTION JT LOCATION TO STRUCTURAL ENGINEER PRIOR TO CONCRETE POUR. SPACING SHALL BE

POWDER ACTUATED FASTENERS

BETWEEN 24 AND 30 TIMES THE SLAB THICKNESS MAXIMUM.

THESE NOTES GOVERN ALL CONDITIONS CALLED OUT ON THE PLANS AS "SHOT PINS" UNLESS SPECIFICALLY NOTED OTHERWISE. 2. ALL SHOT PINS SHALL BE AS MANUFACTURED BY HILTI INC. OR DEWALT.

REFERENCE SHALL BE MADE TO THE 'PRODUCT TECHNICAL GUIDE'. FOR ADDITIONAL INFORMATION ICC ESR 2269 (HILTI) OR ICC ESR 2024 (DEWALT). 3. SHOT PINS DRIVEN INTO STEEL BASE MATERIAL SHALL BE X-U-P8 (HILTI) OR CSI (DEWALT) TYPE. LENGTH OF PIN SHALL BE AS REQ'D TO PENETRATE THROUGH THE STEEL BASE MATERIAL. MIN EDGE DISTANCE TO ANY CONNECTED PART

SHALL BE 1/2" AND MIN FASTENER SPACING SHALL BE I' 4. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL SHALL BE X-U-P8 (HILTI) OR CSI (DEWALT) TYPE. LENGTH OF PIN SHALL BE AS REQ'D TO PENETRATE I" INTO THE CONC BASE MATERIAL. MIN EDGE DISTANCE TO ANY CONC MATERIAL SHALL BE 3" AND MIN FASTENER SPACING SHALL BE 4" MINIMUM CONCRETE

THICKNESS=4 1/2" 5. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL THROUGH METAL DECK SHALL BE X-U-P8 (HILTI) OR CSI (DEWALT) TYPE. LENGTH OF PIN SHALL BE AS REQ'D TO PENETRATE I" INTO THE CONC 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.

6. SHOT PINS DRIVEN INTO GROUT FILLED CMU SHALL BE X-U-P8 (HILTI) OR CSI (DEWALT) TYPE. LENGTH OF PIN SHALL BE AS REQD TO PENETRATE I" INTO THE FACE SHELL. <u>DO NOT INSTALL IN ANY VERTICAL MORTAR JOINTS.</u> FASTENERS SHALL BE SPACED NO CLOSER THAN 4" AND NO CLOSER THAN 4" FROM ANY

7. 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 8. SHOT PINS NOT ALLOWED FOR EXTERIOR ANCHORAGE. 9. SHOT PINS PENETRATION INTO CONCRETE SHALL NOT EXCEED 1/3 OF SLAB

10. 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. 3. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC. 4. 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 DRAWINGS: 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.

6. SAFETY NOTE: A. 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. B. THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS. C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND

7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.

8. 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.

CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.

DESIGN LOADS:

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS: 20.0 PSF (REDUCIBLE)

BASIC WIND SPEED V (3 SEC GUST) = 93 MPH

EXPOSURE <u>C</u>.

ENCLOSURE CLASSIFICATION: INTERNAL PRESSURE COEFFICIENT (GCDI) ☐ ENCLOSED +0.18, -0.18 +0.55, -0.55 PARTIALLY ENCLOSED TPARTIALLY OPEN +0.18, -0.18 OPEN 0.00

VELOCITY PRESSURE 9h = 16.1 PSF

COMPONENTS & CLADDING:

*WIND PRESSURE FOR BUILDING ELEMENTS (16.0 PSF MINIMUM)

* DESIGN PRESSURE IS FOR EFFECTIVE DESIGN WIND PRESSURE (PSF) WIND AREA < 10 SQ FT. PRESSURE CAN BE REDUCED FOR LARGER AREAS AS PER ASCE 7-16 ZONE I 16, -17.5 ** - PRESSURE FOR < 2.0 SQ FT EFF AREA ZONE 2 16, -26.3 ZONE 3 16, **-**52.5

<u>SEISMIC:</u>

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

LONGITUDE: -121.32 °W RISK SEISMIC DESIGN SEISMIC COMPONENT CLASS CATEGORY CATEGORY IMPORTANCE FACTOR IP \Box A 1.00 □B □ 1.50 D $\Box \neq$

ANALYSIS PROCEDURE: DESIGN FORCE Fp = 0.4ap Sps Mp (1+2 = 1)

USE Fp = ____3 _ Wp

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS:

COMPONENT COEFFICIENTS ap= 2.5 Rp = 6Ω= 2

55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗹

DSA APP. NO: 02-122192

MUNII

CHITECTUR

3701 Business Drive Suite 200

Sacramento, CA 95820

6/5/24

Phone: (916) 365-9655

POINT 2

916)-452-8200

3701 BUSINESS DR SUITE 100

ACRAMENTO, CA. 95820

APP: 02-122192 INC:

DATE: 06/27/2024

STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP**

RENOVATION 1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

Description PROJECT No.: 2023-065

CONSTRUCTION DOCUMENTS

TYPICAL NOTES

#4 @ |6" O.C.-

CONCRETE PAD

CONCRETE CURB

EA WWAY

(E) SLAB —

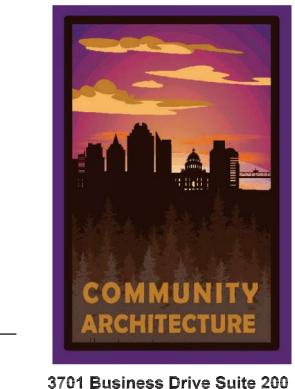
(2 MIN)

#4 @ 16" O.C. — MAX

| " = | '-O " conc3

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC 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

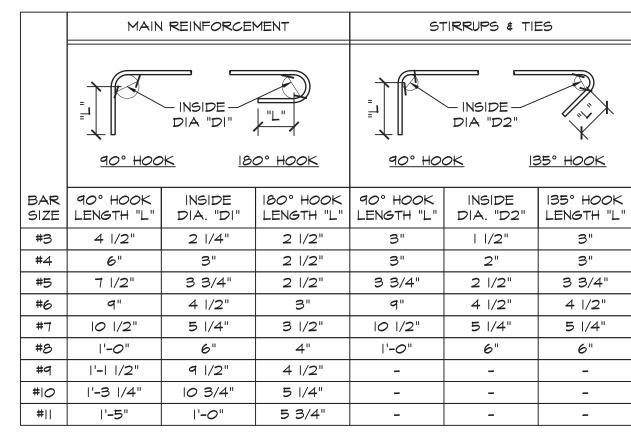
POINT 2 STRUCTURAL ENGINEERS, INC. 3701 BUSINESS DR SUITE 100 SACRAMENTO, CA. 95820 (916)-452-8200 (916)-452-8212 (FAX)



	CONCRETE STRENGTH		f'c = 30	000 PS	I		f'c = 40	000 PS	ı
	CLASS OF LAP SPLICE	CLAS	S "A"	CLAS	ن #	CLAS	S "A"	CLAS	S "B"
	BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
	#3	1'-10"	1'-5"	2'-4"	1'-10"	1'-ブ"	1'-3"	2'-1"	1'-7"
6	#4	2'-5"	1'-10"	3'-1"	2'-5"	2'-1"	1'-ブ"	2'-9"	2'-1"
\/ //	#5	3'-0"	2'-4"	3'-11"	3'-0"	2'-7"	2'-0"	3'-5"	2'-7"
\	#6	3'-7"	2'-9"	4'-8"	3'-7"	<u>-</u> -	2'-5"	4'-1"	3'-1"
	#7	5'-3"	4-0"	6'-9"	5'-2"	4'-6"	3'-6"	5'-11"	4'-6"
ا ا ا ا ــ ـــ	#8	6'-0"	4'-7"	7'-9"	6'-0"	5'-2"	4'-0"	6'-9"	5'-2"
<u>₽</u>	#9	6'-9"	5'-2"	8'-9"	6'-9"	<u> </u> 0	4'-6"	ブ'ーブ"	5'-10"
	#10	ブ'ーブ"	<u> </u> 0	<u>ا</u> ۔ 9	ブ'ーブ"	6'-7"	5'-1"	8'-6"	6'-7"
↓ □	#	8'-5"	6'-6"	<u> </u>	8'-5"	7'-3"	5'-7"	9'-5"	7'-3"
\sqcup									

NOTES: MULTIPLIED BY THE APPLICABLE FACTORS(S) LISTED BELOW.

- 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" SPLICE MAY BE USED ONLY WHERE NOTED ON THE DRAWINGS. WHERE DEVELOPMENT LENGTH (Ld) IS REQUIRED OR CALLED
- 5. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS. 6. LAP SPLICE LENGTHS IN TABLE ARE FOR NORMAL WEIGHT CONCRETE. WHERE LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INCREASE LAP
- SPLICE LENGTH BY 33% 7. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE
- 8. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME





	CONCRETE STRENGTH		f'c = 30	000 PS	ıl	1	°'c = 40	000 PS	I		
	CLASS OF LAP SPLICE	CLAS	S "A"	CLAS	S "B"	CLAS	S "A"	CLAS	S "B"		
	BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
/ //	#3	1'-10"	1'-5"	2'-4"	1'-10"	1'-ブ"	1'-3"	2'-1"	1'-ブ"		
6	#4	2'-5"	1'-10"	3'-1"	2'-5"	2'-1"	1'-7"	2'-9"	2'-1"		
\/ //	#5	3'-0"	2'-4"	3'-11"	3'-0"	2'-7"	2'-0"	3'-5"	2'-7"		
`	#6	3'-7"	2'-9"	4'-8"	3'-7"	3'-1"	2'-5"	4'-1"	3'-1"		
$\uparrow \parallel \sqcap$	#7	5'-3"	4'-0"	6'-9"	5'-2"	4'-6"	3'-6"	5'-11"	4'-6"		
2	#8	6'-0"	4'-7"	7'-9"	6'-0"	5'-2"	4'-0"	6'-9"	5'-2"		
Δ <u></u>	#9	6'-9"	5'-2"	8'-9"	6'-9"	5'-10"	4'-6"	ブ'ーブ"	5'-10"		
	#10	フ'-フ"	5'-10"	9'-10"	7'-7"	6'-7"	5'-1"	8'-6"	6'-7"		
	#11	8'_5"	6'-6"	8'-5"		≒ '_7"	a'_5"	ブ!_ 名"			

I. UNLESS INDICATED OTHERWISE, USE CLASS "B" LAP SPLICE LENGTHS, 2. WHERE THE CLEAR SPACING OF BARS BEING SPLICED IS LESS THAN 2

- OUT ON THE DRAWINGS, USE CLASS "A" LAP SPLICE LENGTH.





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
PROJ	ECT No.:	2023-065

CONSTRUCTION DOCUMENTS

TYPICAL DETAILS

(N) SOG (E) SOG

- WOOD STUD FRAMING

WHERE OCCURS

BACKING STRAP

> WHERE OCCURS

MOOD STUD

FRAMING

TYPICAL BACKING

- #IOXI I/2 PAN HEAD

MOOD SCREMS AT

BACKING -TRACK

- SPECIAL INSPECTION OF EPOXY DOWELS IS NOT REQUIRED

- DRILL & SET IN

\$ SCHEDULE

EPOXY PER NOTES

(E) SOG REINF

CLASS B SPLICE MIN

(N) SOG -REINF ,

DOWELS TO MATCH SOG -

-16GA BACKING STRAP \times 6" WIDE MIN.

UNO ON PLANS. FASTEN TO STUDS W/

BACKING TO SPAN MIN. OF (3) STUDS.

(3) #10×3/4" WAFER HEAD SELF

(4) #10x3/4 FOR "W" > 8". ALL

A STRAP BACKING: USE FOR THE FOLLOWING ITEMS.

2. WALL MOUNTED DISPENSERS AND HARDWARE

4. BACKING AT THE BOTTOM OF WALL HUNG

CABINETS LESS THAN 15" IN DEPTH.

. FLOOR MOUNTED BASE CABINETS.

WEIGHING 40 LBS OR LESS.

DRILLING SCREWS PER STUD. USE

BACKING STRAP TO BE FY=50KSI

REINF @ MID-DEPTH

MIN PER SIDE)

(N) MTL STUD -

WHERE OCCURS

(PROVIDE 2 DOWELS

NO DIGGING FOR -

TRENCH -

PIPE OR -

CONDUIT

CONC FILL -

SEE NOTE 2

PIPE & SLEEVE -

FOR THIS CONDITION

- WOOD STUD FRAMING

- #10x1 1/2 PAN HEAD

MOOD SCREWS AT

WOOD STUD

FRAMING

-16GA BACKING TRACK \times 6" WIDE MIN. UNO ON PLANS. FASTEN TO STUDS W/

BACKING TO SPAN MIN. OF (3) STUDS.

BACKING TRACK TO BE FY=50KSI

(3) #IOx3/4" WAFER HEAD SELF

(4) #10×3/4 FOR "W" > 8". ALL

B TRACK BACKING: USE FOR THE FOLLOWING ITEMS.

2. FLOOR MOUNTED CABINETS GREATER THAN

3. WALL HUNG CABINETS GREATER THAN 15" IN

DEPTH AND AT THE TOP OF WALL HUNG

CABINETS LESS THAN 15" IN DEPTH

HANDRAILS AND GRAB BARS.

A ITEMS (OPTIONAL)

3'-O" IN HEIGHT.

DRILLING SCREWS PER STUD. USE

WHERE OCCURS

SIMILAR TRENCHING RESTRICTIONS EA

SIDE OF FOOTING

- CONC FTG

- LOWERED NO -

DIGGING LINE

PER NOTE I

PARALLEL TO FTG

PIPE & CONDUIT DETAIL

I'-6" MIN .

I. WHERE TRENCH OCCURS BELOW "NO DIGGING LINE" (SHOWN AS

W/ I" CLR AROUND PIPE ENCASED IN CONC.

HEAVY DASHED LINE), LOWER BOTTOM OF FTG WITH CONC FILL TO

LOWER NO DIGGING LINE AS REQ'D (SHOWN AS LT DASHED LINE).

2. IN LIEU OF LOWERING BOTT OF FTG WHERE TRENCH OCCURS BELOW

NO DIGGING LINE, FILL PORTION OF TRENCH BELOW NO DIGGING

3. SEE PIPES PERPENDICULAR TO FOOTING FOR ADDITIONAL NOTES.

LINE W/ CONC FILL PRIOR TO EXCAVATING FTG. PROVIDE SLEEVE

- CONC FILL

WHERE REQ'D

PER NOTE I

- PIPES & CONDUIT TO BE LOCATED

IN MIDDLE 1/3 OF FTG - ALL PIPES

TO CLR SLEEVE BY I" ALL AROUND

2'-0" MIN

- CONC FTG

 $^-$ concrete fill where pipe or $^-$

CONDUIT RUNS BELOW FOOTING (SHOWN SHADED FOR CLARITY)

NOT REQUIRED FOR PIPES

DEEPER THAN 3'-O" BELOW B.O.F.

PERPENDICULAR TO FTG

2. CONCRETE FILL TO BE SAME WIDTH AS FTG AND FULL WIDTH OF PIPE

4. IF PIPE IS IN PLACE PRIOR TO CASTING CONCRETE, WRAP PIPE W/ I"

6. NO PIPES UNDER PRESSURE ALLOWED WITHIN FTG IN LONGITUDINAL

5. PROVIDE 2" CLR MINIMUM, BETWEEN PIPES OR CONDUIT & REINFORCING.

7. CONDUITS WITHIN FTG SHALL BE LOCATED SUCH THAT VERTICAL RISERS DO NOT CROSS ADJACENT HORIZONTAL CONDUIT. MINIMUM COVER

TRENCH. STEP FILL IF PIPE IS MORE THAN 2'-O" BELOW BOTT OF FTG.

I. CONCRETE FILL SHALL HAVE F'C @ 28 DAYS > 1500 PSI.

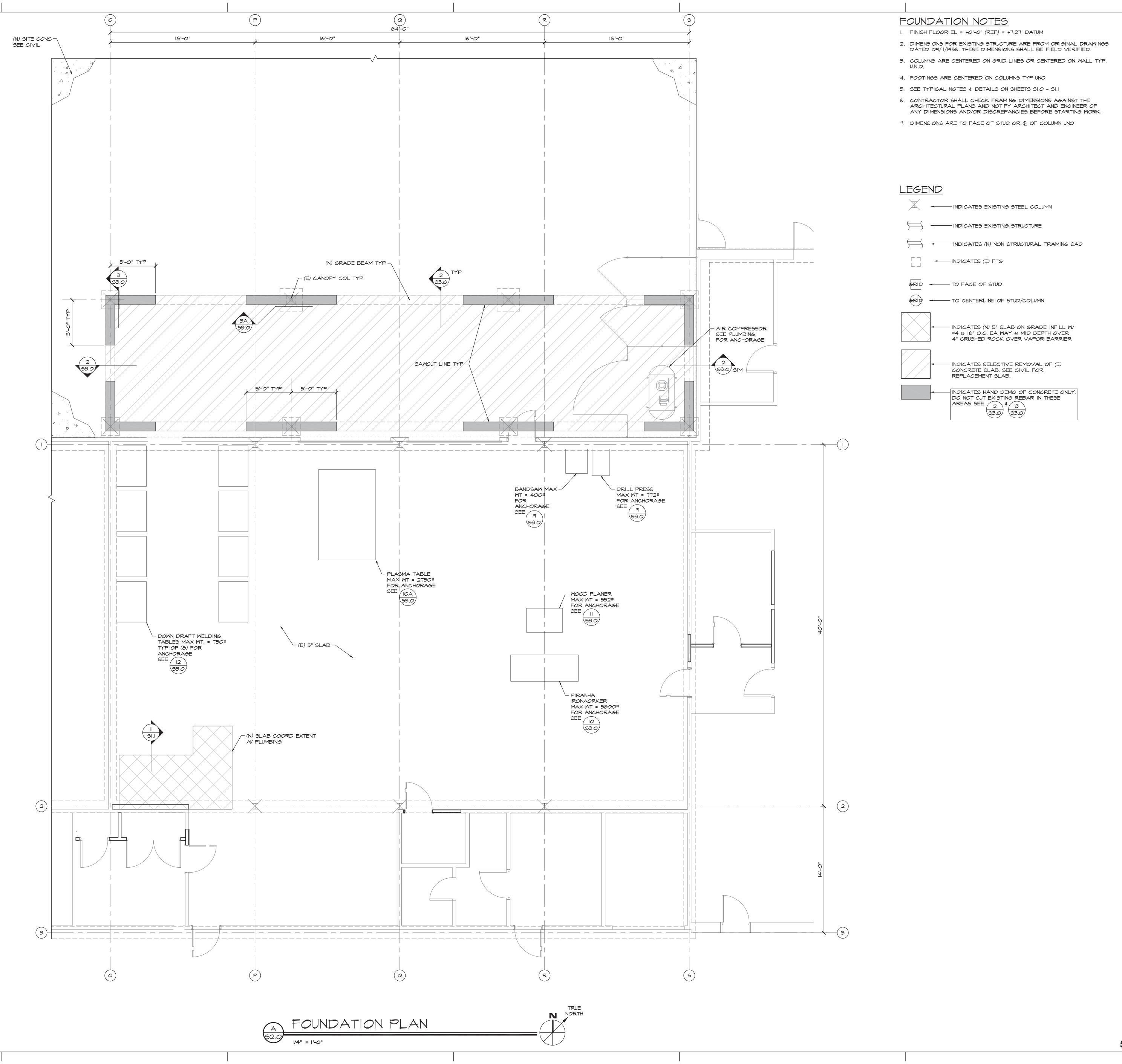
3. NO PIPE SHALL BE PLACED BELOW SPREAD FTGS - TYP.

THICK GLASS MOOL INSULATION IN LIEU OF SLEEVE.

SHALL BE I 1/2" AND 2d MINIMUM SEPARATION.

TRENCH BELOW

THESE LINES



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DIV. OF THE STATE ARCHITECT

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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

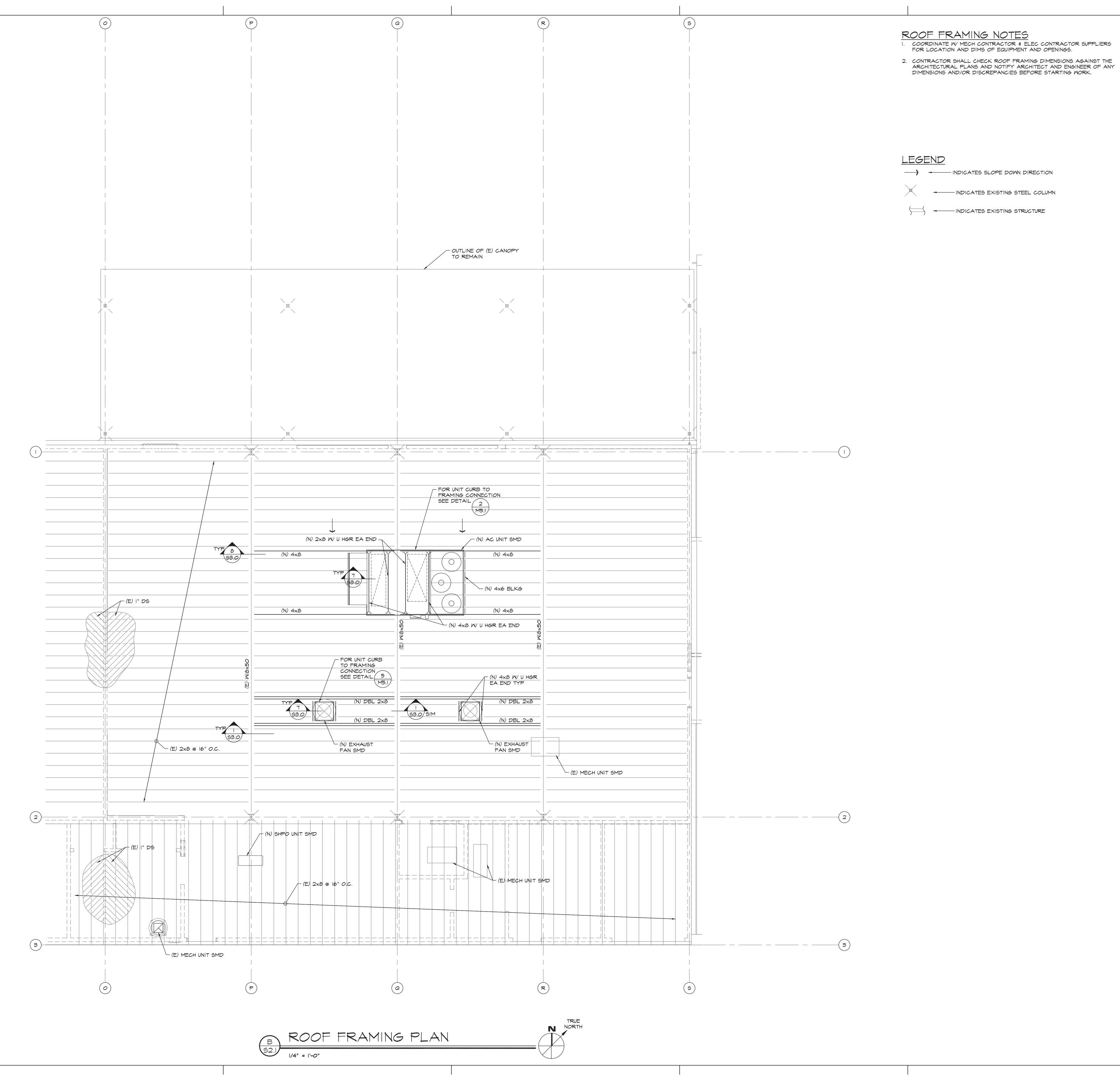
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No.	Description	Date
PRO I	ECT No.:	2023-065
1 1100	LU 1 11U	2020-000

CONSTRUCTION DOCUMENTS

FOUNDATION PLAN

S2.0



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

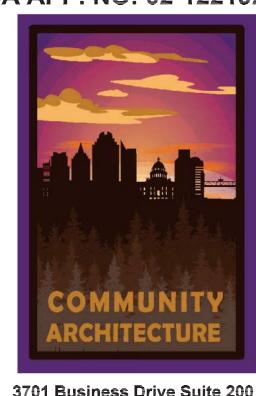
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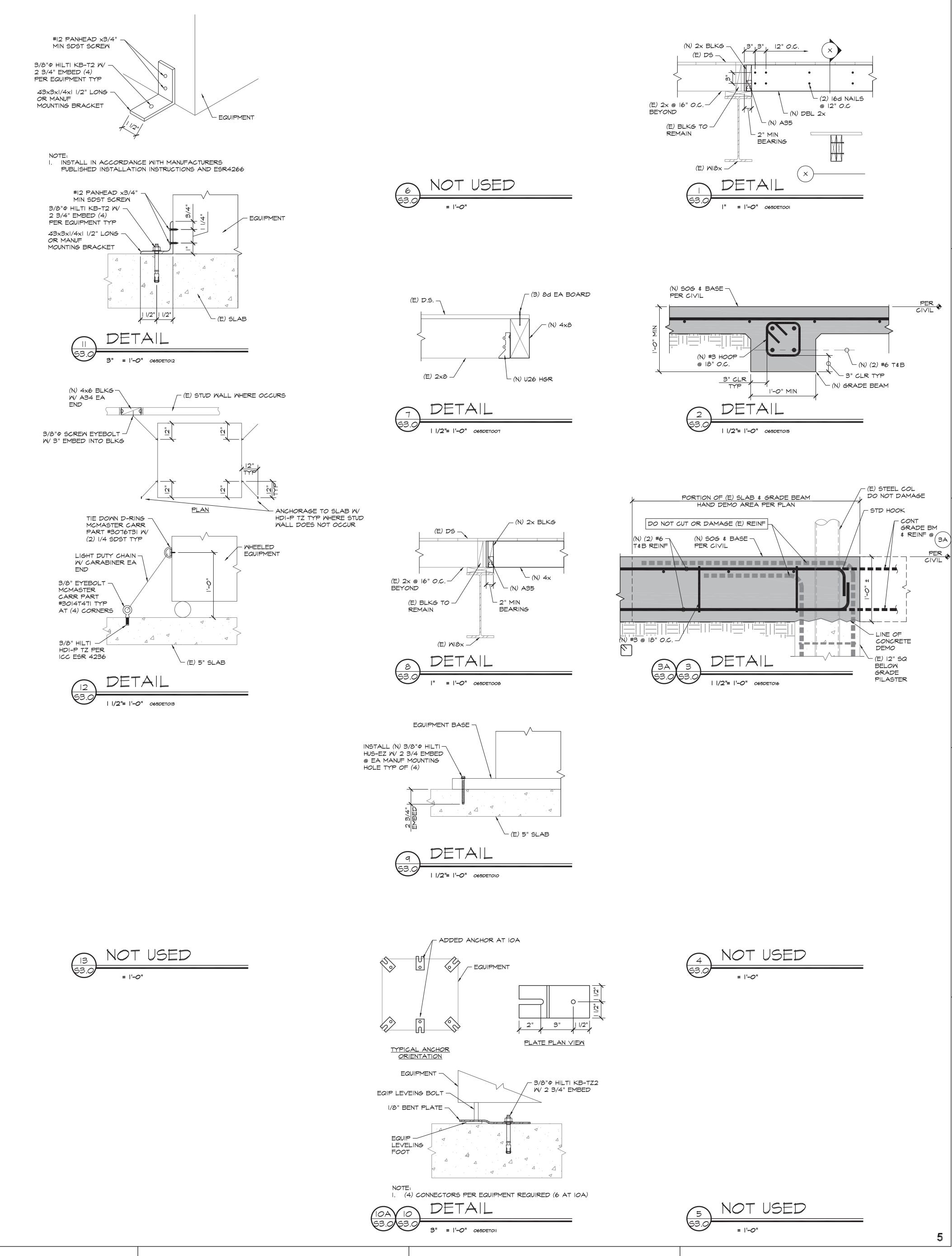
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No.	Description	Date
		I
PROJ	ECT No.:	2023-065
		= 1 - 0 0 0 0

CONSTRUCTION DOCUMENTS

ROOF FRAMING PLAN

S2.1



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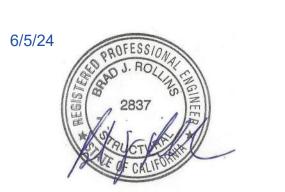
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DETAILS

S3.0

DIFFUSER, REGISTER & GRILLE SCHEDULE														
SYMBOL	DESCRIPTION	KRUEGER	METALAIRE	NAILOR	TITUS	TUTTLE & BAILEY								
CD	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 (EXHAUST WITH " EGG CRATE CORE SURFACE MOUNT	R 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									

NOTES: 1. ALL SYMBOLS NOTED MAY NOT BE USED. REFER TO PLANS FOR SIZE AND QUANTITY.

CURVED FRAME.

PERFORATED FACE SPIRAL DUCT MOUNTED RETURN OR EXHAUST GRILLE WITH

- 2. ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW UNLESS SHOWN OTHERWISE.
- 3. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.
- 4. COORDINATE DIFFUSER TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.

AND DAMP AREAS

GRILLES.

6. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER OR GRILLE.

* ALUMINUM REGISTERS FOR SHOWERS

REQUIRED AT DIFFUSERS, REGISTERS OR

OPPOSED BLADE DAMPERS ARE NOT

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS. 2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT

MECHANICAL GENERAL NOTES

- IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
- COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
- 4. COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE AND EQUIPMENT PRIOR TO
- COORDINATE CEILING DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL CEILING PLAN SHEET A3.1..
- FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DUFFUSER.
- 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") OUT, SEE LEGEND, COORDINATE CLOSELY WITH (N)
- DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN. 10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9" & 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET
- METAL PLENUM TO ACCOMODATE 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

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:
 - 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

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

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.

	DUC	T LEGEND
SINGLE Line Symbol	DOUBLE Line Symbol	DESCRIPTION
24x12	24x12	RECTANGULAR DUCT - WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
26x14L	26x14L	ACOUSTICALLY LINED RECTANGULAR DUCT, 1" THICK INTERNAL LINER, DIMENSIONS ARE OUTSIDE
28x16L2	28x16L2	ACOUSTICALLY LINED RECTANGULAR DUCT, 2" THICK INTERNAL LINER, DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
R OR D	RISE OR DROP	RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
		RECTANGULAR TO RECTANGULAR TRANSISTION , MAX. SLOPE OF 1:3
	OR	RECTANGULAR TO ROUND TRANSITION , MAX. SLOPE OF 1:3
	R = 1.5	ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
	CCC.	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 MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
	——————————————————————————————————————	3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S ON THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNITING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
X	SUPPLY	Y AIR, SUPPLY AIR DUCT IN SECTION, SUPPLY DROP
	RETUR	N AIR, RETURN AND OUTSIDE AIR DUCT IN SECTION, RETURN AIR DROP
	EXHAU:	ST AIR, EXHAUST AIR DUCT IN SECTION, EXHAUST AIR DROP

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 ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR,

ENGINEER/ ARCHITECT OF RECORD OR THE OWNER'S AGENT. 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

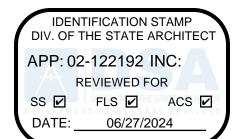
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND

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

OPM DETAIL REFERENCES FOR OPTION 2 SCHEDULE

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, 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.

i		AL LEGEND cont'd
SYMBOL	ABBREVIATION	DESCRIPTION
	ABV ABC	ABOVE ABOVE CEILING
	AF	ABOVE FLOOR
	AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
	AC	AIR CONDITIONING
	APD BDD	AIR PRESSURE DROP, INCHES WATER COLUMN BACK DRAFT DAMPER
	ВНР	BRAKE HORSE POWER
	BOD BTU(H)	BOTTOM OF DUCT ELEVATION ABOVE FINISHED FLOOR BRITISH THERMAL UNITS (PER HOUR)
CO2	CO2	CARBON DIOXIDE (CO2) SENSOR, INSTALLED AT +66" AFF (TO TOP OF DEVICE, EXCEPT WHEN INTEGRAL TO T-STAT
		OR TEMPERATURE SENSOR)
	CC CLG	CENTER TO CENTER CEILING
	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
°F	DPR	DAMPER DEGREES FAHRENHEIT
·	DIA	DIAMETER , PHASE
	DL DB	DOOR LOUVER DRY BULB (DEGREES FAHRENHEIT)
	EP	ELECTRICAL PANEL
	EL ENT	ELEVATION ENTERING
	EDB	ENTERING DRY BULB
	EW EWT	ENTERING WATER ENTERING WATER TEMPERATURE
	EWB	ENTERING WET BULB
	EVAP EA	EVAPORATOR EXHAUST AIR
	EAD EF	EXHAUST AIR DAMPER EXHAUST FAN
	EF (E), EXIST	EXHAUST FAN EXISTING
-x x x	(E) ESP	EXISTING TO BE REMOVED EXTERNAL STATIC PRESSURE
	FPM	FEET PER MINUTE
	FC FLR	FLEXIBLE CONNECTION FLOOR
	FA	FROM ABOVE
	FB FLA	FROM BELOW FULL LOAD AMPS
	GALV	GALVANIZED
	GI GA	GALVANIZED IRON GAUGE
	HTG	HEATING
	KW KWH	KILOWATTS KILOWATT HOUR
	LDB LWB	LEAVING DRY BULB IN DEGREES FAHRENHEIT LEAVING WET BULB IN DEGREES FAHRENHEIT
	LRA	LOCKED ROTOR AMPERES
	LVR MAD	LOUVER MANUAL AIR DAMPER
	MFR	MANUFACTURER
	MAX MIN	MAXIMUM MINIMUM
F-1	MCC	MOTOR CONTROL CENTER
M	MCD (N)	MOTORIZED CONTROL DAMPER NEW
<u></u>	OCC	OCCUPANCY SENSOR
	OC OA	ON CENTER OUTSIDE AIR
	OAD	OUTSIDE AIR DAMPER
	OD OV	OUTSIDE DIAMETER OUTLET VELOCITY
	ОН	OVERHEAD
		PIPE DROP PIPE GUIDE
<u> </u>		PIPE RISE PITCH DOWN IN DIRECTION OF FLOW
•	POC	POINT OF CONNECTION
	LBS PSI (G) (A)	POUNDS POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
	PD	PRESSURE DROP
—— RG —— —— RS ——	RG RS	REFRIGERANT GAS PIPING REFRIGERANT SUCTION PIPING
—— RL ——	RL	REFRIGERANT LIQUID PIPING
	RA RAD	RETURN AIR RETURN AIR DAMPER
	RPM	REVOLUTIONS PER MINUTE
	RLA SQFT	RUNNING LOAD AMPERES SQUARE FEET
	SQIN	SQUARE INCHES
	SP SPD	STATIC PRESSURE STATIC PRESSURE DROP
	SA SF	SUPPLY AIR SUPPLY FAN
	TCP	TEMPERATURE CONTROL PANEL
Ох	TCV T	TEMPERATURE CONTROL VALVE THERMOSTAT, "X" INDICATES SYSTEM CONTROLLED,
• ×	•	INSTALLED AT +46" AFF (TO TOP OF DEVICE)
	MBH TA	THOUSAND BRITISH THERMAL UNITS PER HOUR TO ABOVE
	ТВ	TO BELOW
	TP TSP	TOTAL PRESSURE TOTAL STATIC PRESSURE
	TYP	TYPICAL
	UCD UON	UNDER CUT DOOR UNLESS OTHERWISE NOTED
	W	WATTS
	WT	WEIGHT
	WB	WET BULB



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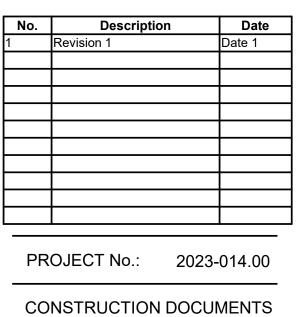
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REVISIONS



MECHANICAL LEGEND &

NOTES

															AIF	RC	ON	DIT	OI	NIN	G UN	NIT S	CHED	ULE																
		"O A DDIED"			MIN.	E0D		DX	COOLING			GA	S HEATING	i				AC	UNIT EL	ECTRIC	L DATA			PWR. E	EXH. EC	ON. ELEC	TRICAL	DATA		E	FFICIENC	Y		OPERA	TING W	VEIGHT ((LBS.)			
UNIT	SERVES	"CARRIER" Model no.	NOM.	CEM	MIN. O.A.	LESP (IN.	LOW	SENSIBLE	TOTAL	E/	AP.	INDUT	OUTDUT	НХ		SUPPL	Y FAN	COM	MPRESS	OR C	OND. FAN	COMB. FAN			EXH	AUST FAN			С	OOLIN	G	HEATI	NG	40	PWR.	POOF		MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
	3220	U.N.O.	TONS		(CFM)	W.G.)	CFM (66%)	CAPACITY (MBH)	CAPACITY (MBH)		EWB (°F)	INPUT (MBH)	OUTPUT (MBH)	EDB (°F)	VOLT/PH	ВНР	FLA	QTY I	RLA	LRA QT	Y FLA	FLA	MCA MOC	P VOLT/PH	НР	FLA	MCA	МОСР	SEER	EER	IEER	AFUE	TE	UNIT	EXH. CON.	CURB	TOTAL	DETAIL	DIAGRAM	
AC K1	AG SHOP K9	48GCDM17A2M6-0A0A0	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	2.8 / 8.2 10	00 / 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	1, 2, 3 M5.1	2 M6.1	12345 678

- 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.
- 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).
- 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

 8 AUTOMATIC SHUTDOWN OF HVAC SYSTEM IS NOT REQUIRED PER 2022 CMC, SECTION 609.1, EXCEPTION 2: ALL ROOMS HAVE DIRECT REQUIRED BY CODE.
- PROVIDE "MICROMETL" STRUCTURALLY CALC'D 14" TALL STANDARD ROOF CURB.
- T-410A REFRIGERANT (SAFETY GROUP A1, LOW-PROBABILITY SYSTEM).

_	
(6) 1	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
	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
ļ	DEMAND CONTROL VENTILATION, ENTERING TEMPERATURES SCHEDULED REPRESENT CONDITIONS AT UPPER OSA POSITION.

- 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 (66%). SEE CONTROLS FOR SEQUENCE OF OPERATION.
- EXIT TO OUTSIDE WITH TRAVEL DISTANCE LESS THAN 100 FEET.

									S	PLIT	SY	STEM	HP	UNIT SC													
UNIT	LOCATION	TYPE	"MANUFACTURER"	MODEL NUMBER	CFM	MIN. O.A. (CFM)	BOOSTER HEATER (kW)	FAN FLA	MCA	VOLT/PH	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"MANUFACTURER" MODEL NO. INDOOR UNIT	TOTAL COOLING CAPACITY (MBH)	HEATING	COMPR RLA		MCA	МОСР	FAN FLA	VOLT/PH	SEER	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
SHPI K1	OFFICE K121	WALL MOUNTED	"CARRIER"	40MAHBQ12XA3	176 TO 382	NA	NA	NA	0.3125	208/1	25	6 M5.2	SHPO K1	"CARRIER" 38MARBQ12AA3	12.0	18.0	8.5	NA	15	15	NA	208/1	25.5	80	4 M5.1	3 M6.1	1, 2, 3, 4

- 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 GOBI II CONDENSATE PUMP, 120V/1PH/60HZ, 12 WATT POWER CONSUMPTION, 6.3 AMPS ALARM RELAY, 3.17 GAL/HR CAPACITY, 65.6FT MAX. VERTICAL HEAD. INSTALL PUMP ON WALL BRACKET BELOW INDOOR UNIT. UNIT WEIGHT = 3 LBS.

							F	A	1 8	CHE	DUL	.E		
UNIT	LOCATION	"MFR" MODEL NO.	CFM (LOW) STD	SP (IN. W.G.)	DUTY	STYLE	FAN WHEEL DIA.	RPM	НР	VOLT/PH	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
REF K1	AG SHOP K9	GREENHECK G-240-VG	(1740) 2900	0.20	E	RE		417	2.0	208/3	250	5 M5.1	4 M6.1	1, 2, 3
REF K2	AG SHOP K9	GREENHECK G-240-VG	(1740) 2900	0.20	E	RE		417	2.0	208/3	250	5 M5.1	4 M6.1	1, 2, 3
LEGEND	LEGEND DUTY: C CURRLY D RETURN E EVILABET													

- 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
- 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
OAF K1	OFFICE K121	RF8-120EC	45	0.02	OUTSIDE AIR	INLINE	120/1	14	8 M5.2	3 M6.1	SHPI/K1	12
NOTES: 1. INTERLOCK WITH ASSOCIATED SPLIT SYSTEM. 2. PROVIDE WITH MERV 13 8" X 8" X 2" FILTER.												

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

APP: 02-122192 INC:

DATE: 06/27/2024

STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP RENOVATION**

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

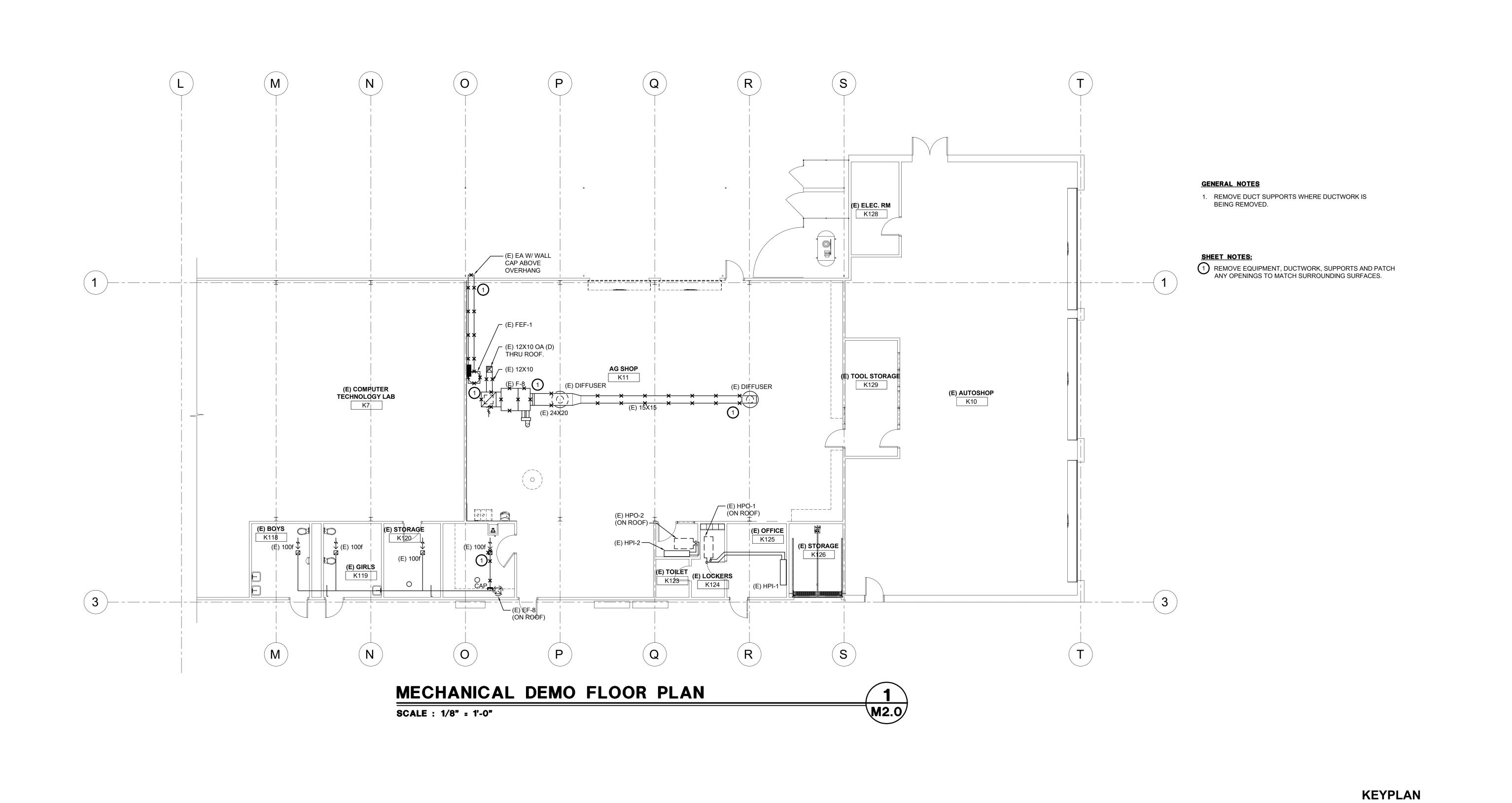
1	Revision 1	Date 1

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

MECHANICAL SCHEDULE AND NOTES

M0.2



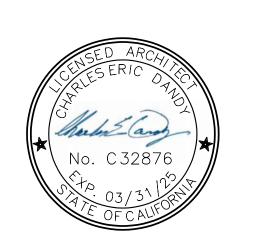
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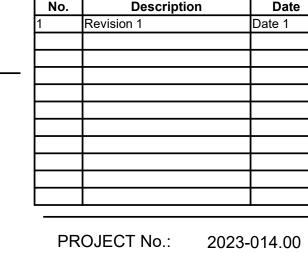
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STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP** RENOVATION

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STOCKTON UNIFIED SCHOOL DISTRICT

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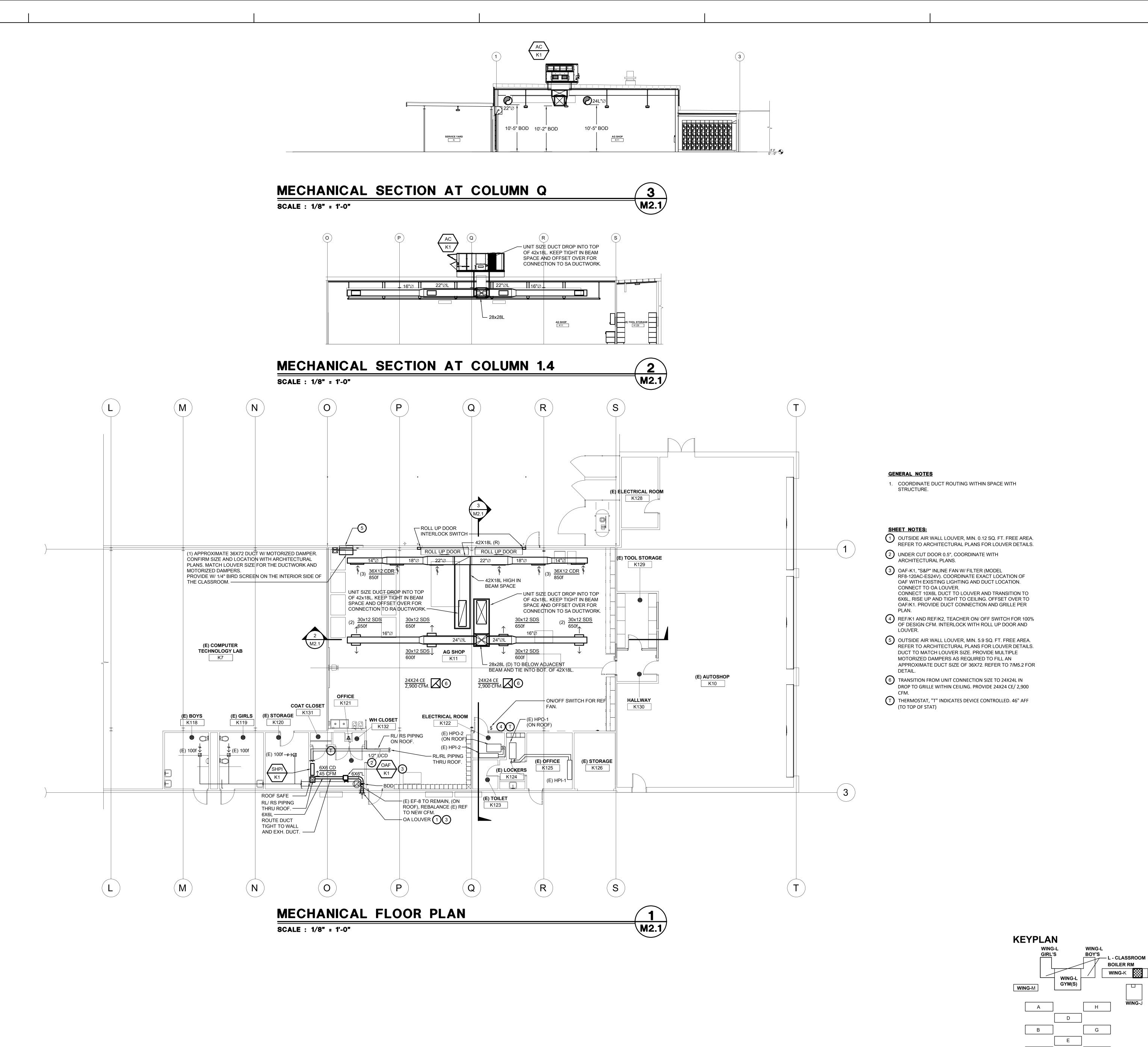


CONSTRUCTION DOCUMENTS

WING-L
BOY'S
L - CLASSROOM
BOILER RM
WING-K

WING-M

MECHANICAL **DEMO FLOOR** PLAN



IDENTIFICATION STAMP
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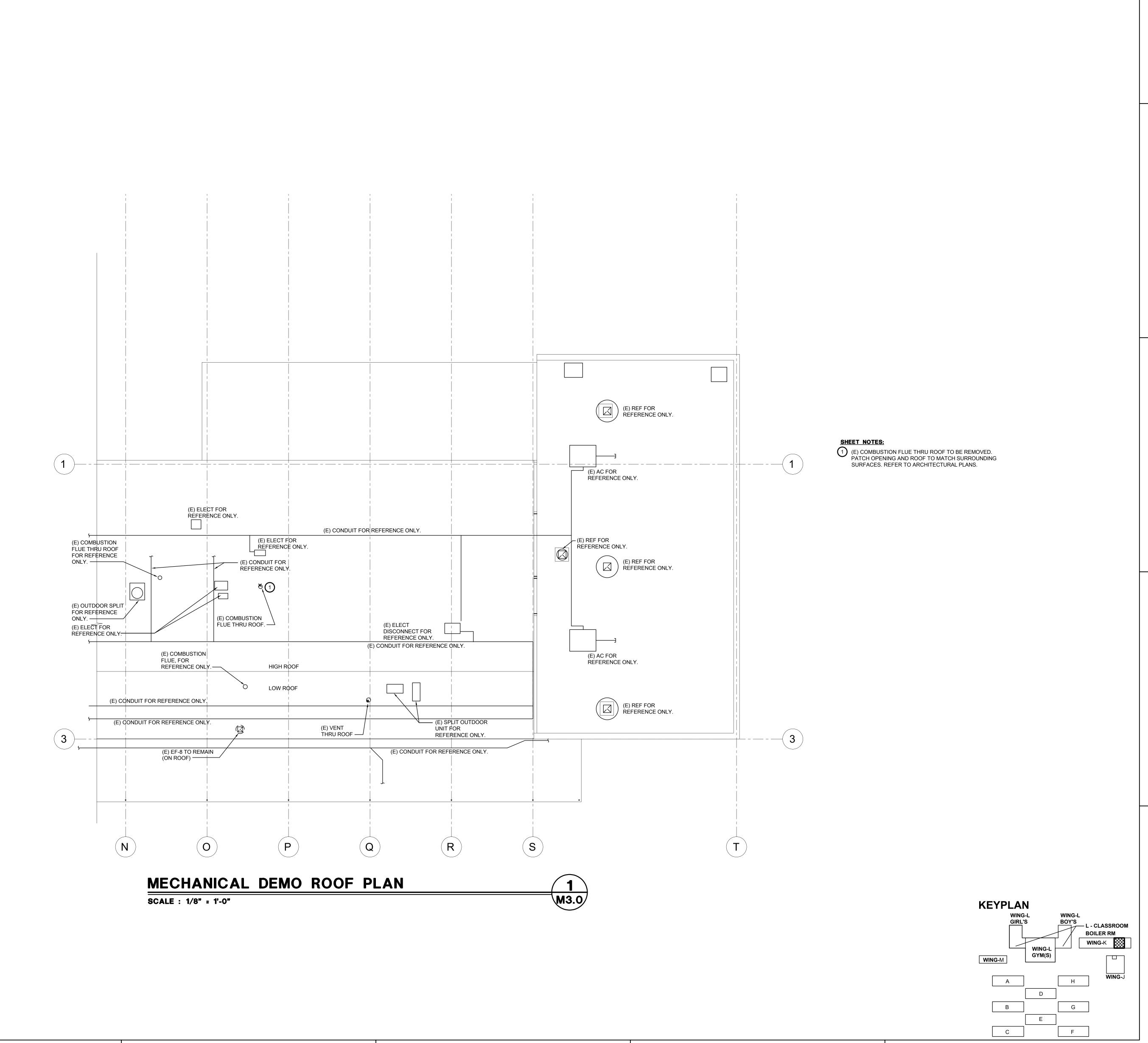
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	PR	OJECT No.:	2023-	014.00

CONSTRUCTION DOCUMENTS

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MECHANICAL FLOOR PLAN

M2.1



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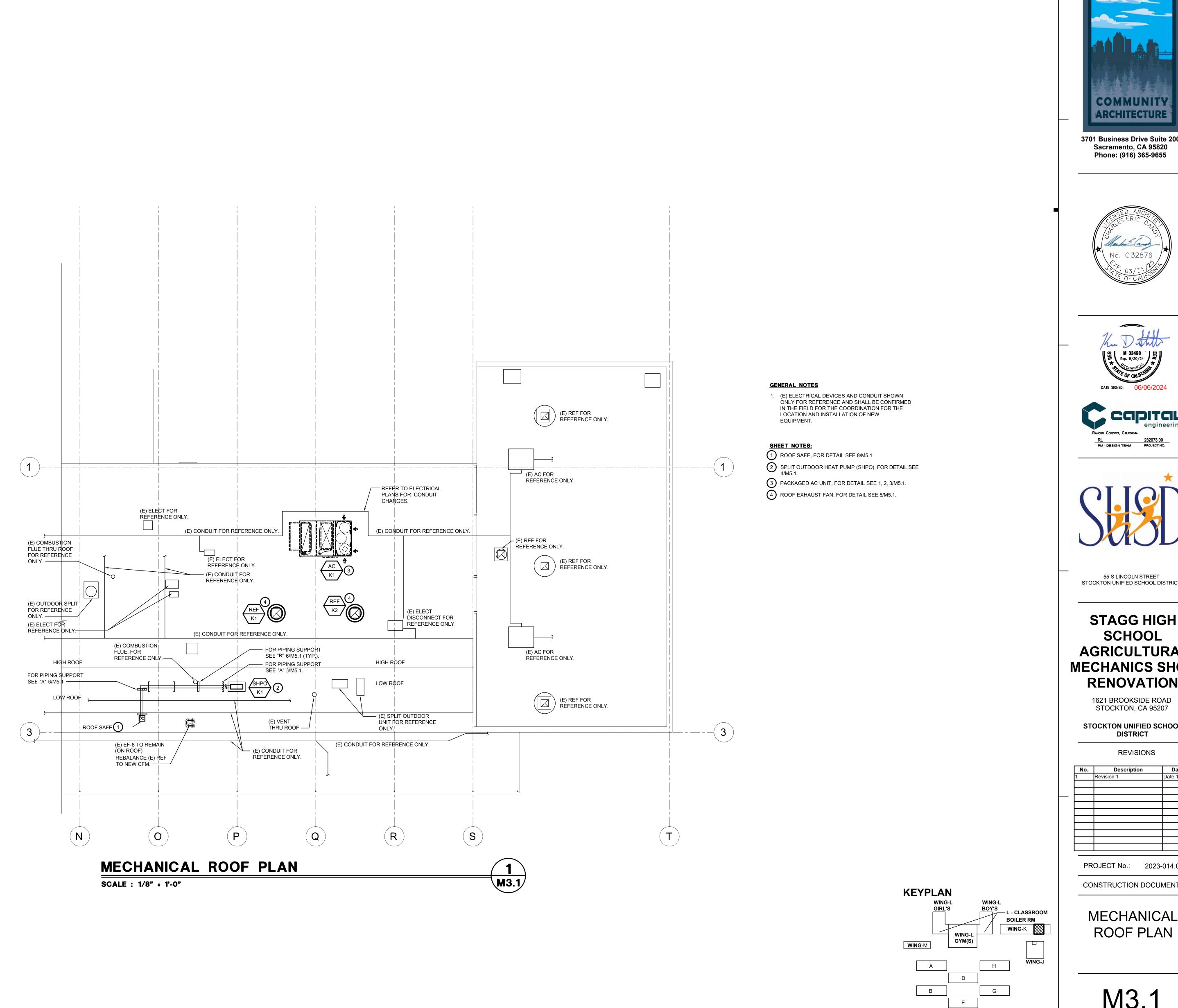
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No.	Description	on	Date
1	Revision 1		Date 1
PR	OJECT No.:	2023-	014.00

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MECHANICAL DEMO ROOF PLAN



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STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP RENOVATION**

1621 BROOKSIDE ROAD STOCKTON, CA 95207

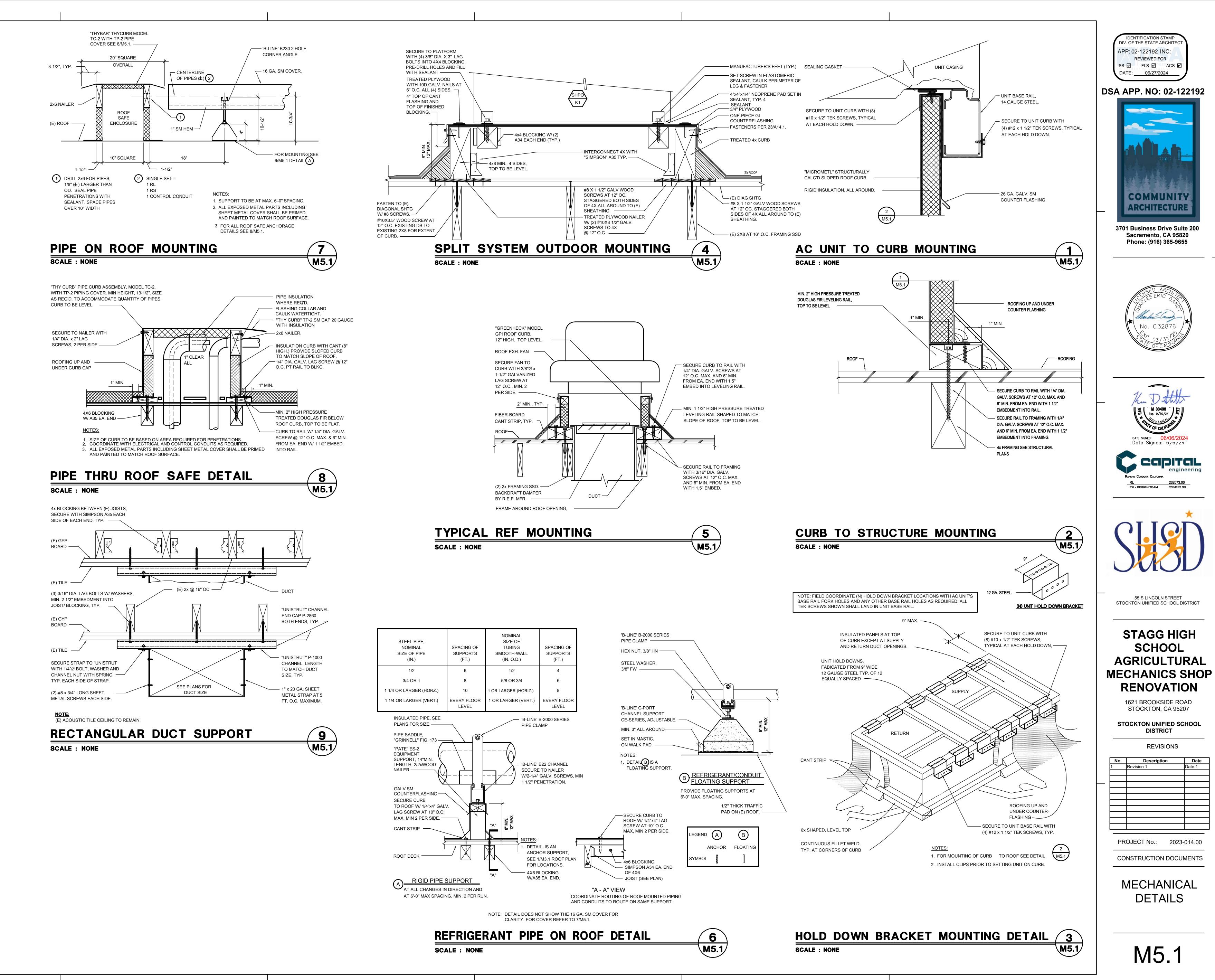
STOCKTON UNIFIED SCHOOL DISTRICT

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	PR	OJECT No.:	2023-	014.00

CONSTRUCTION DOCUMENTS

MECHANICAL

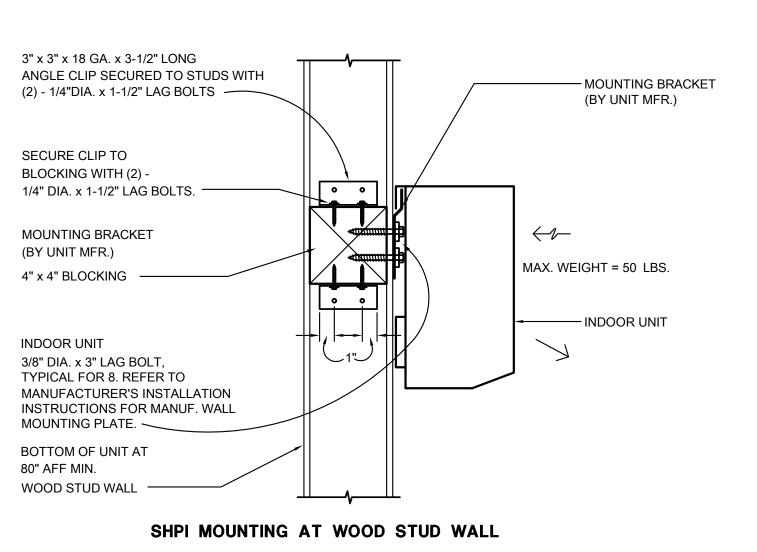


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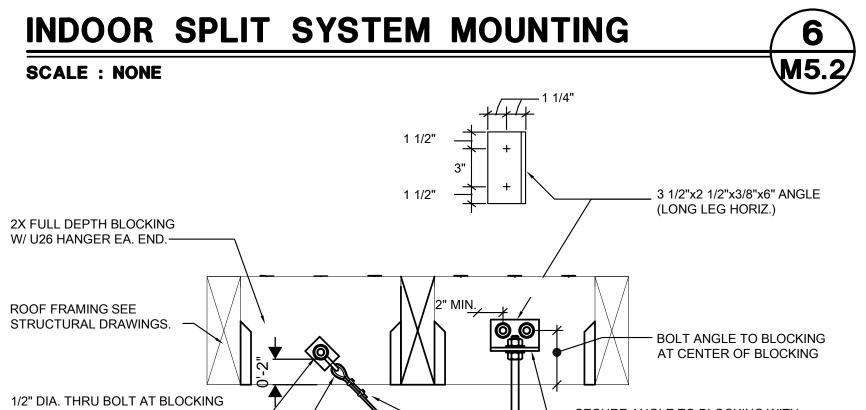
DISTRICT

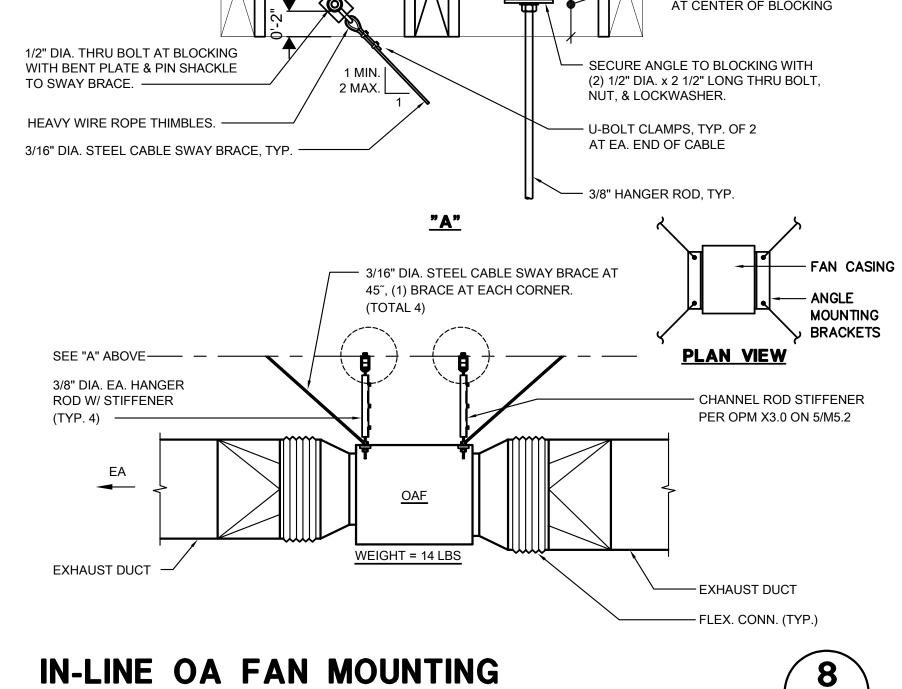
Description

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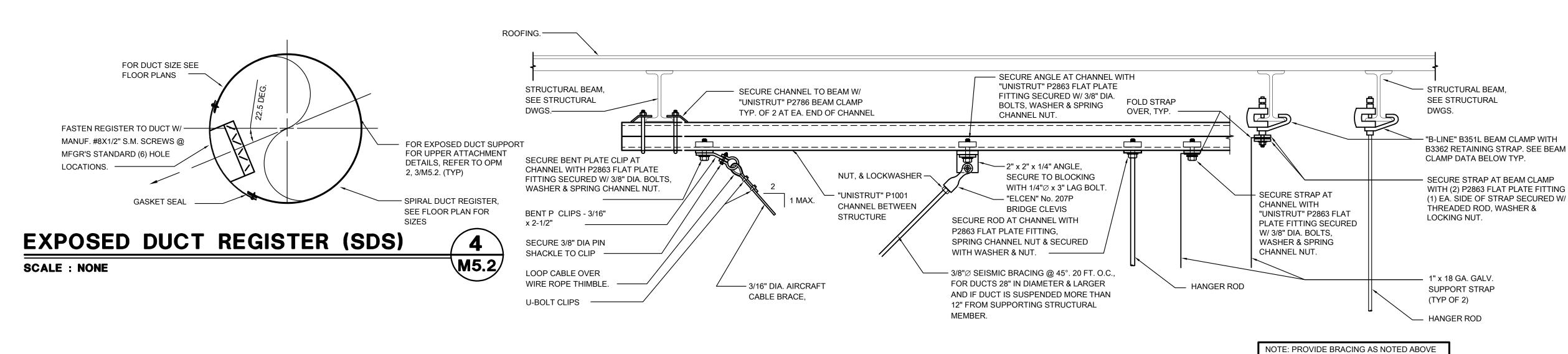
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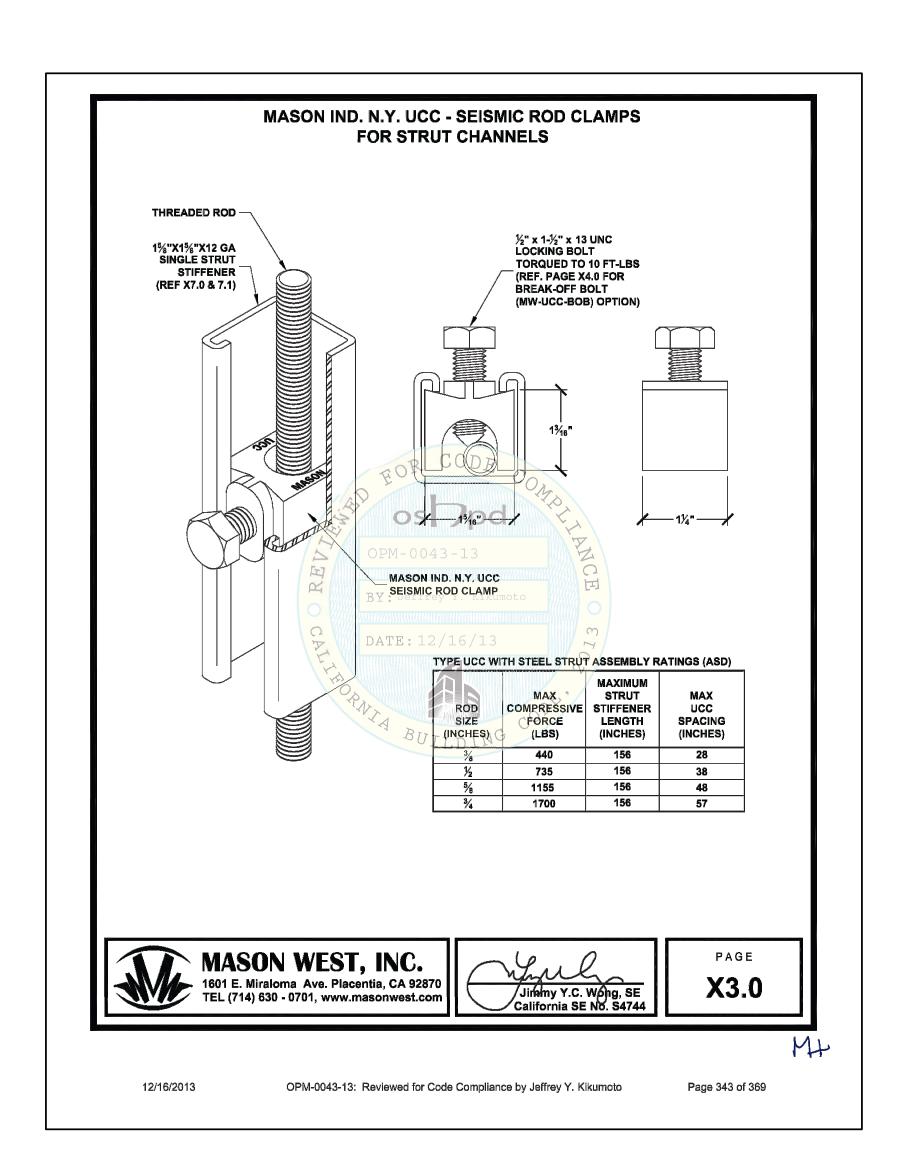




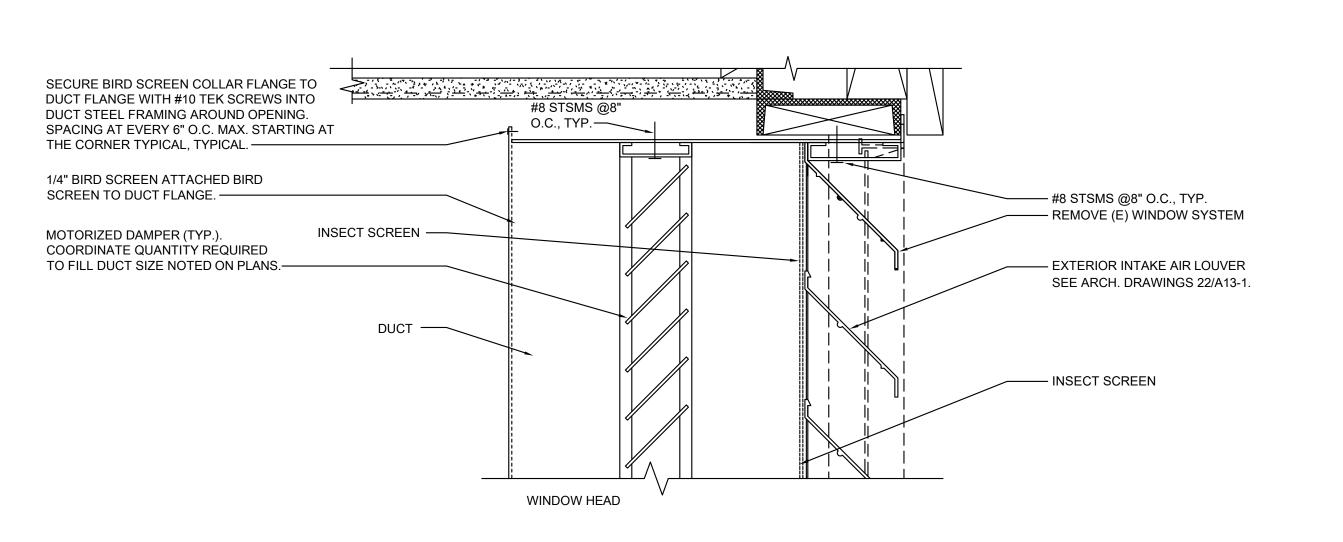
SCALE: NONE

M5.2

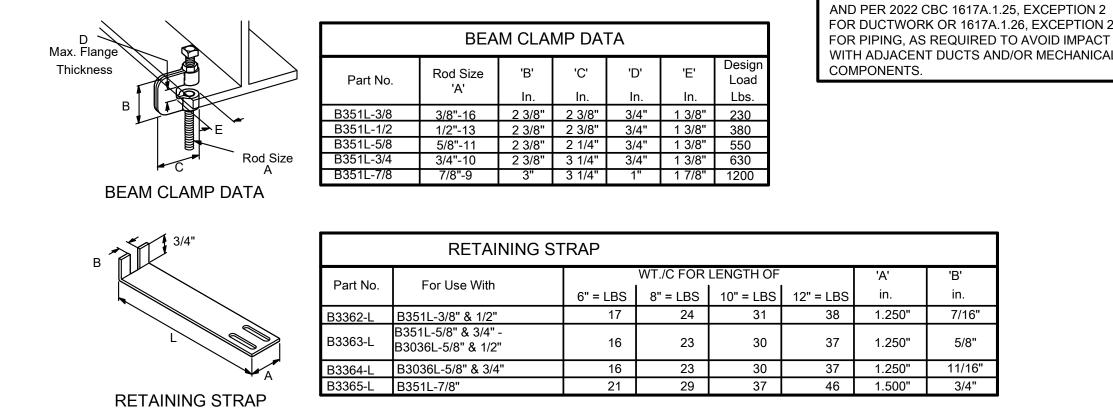






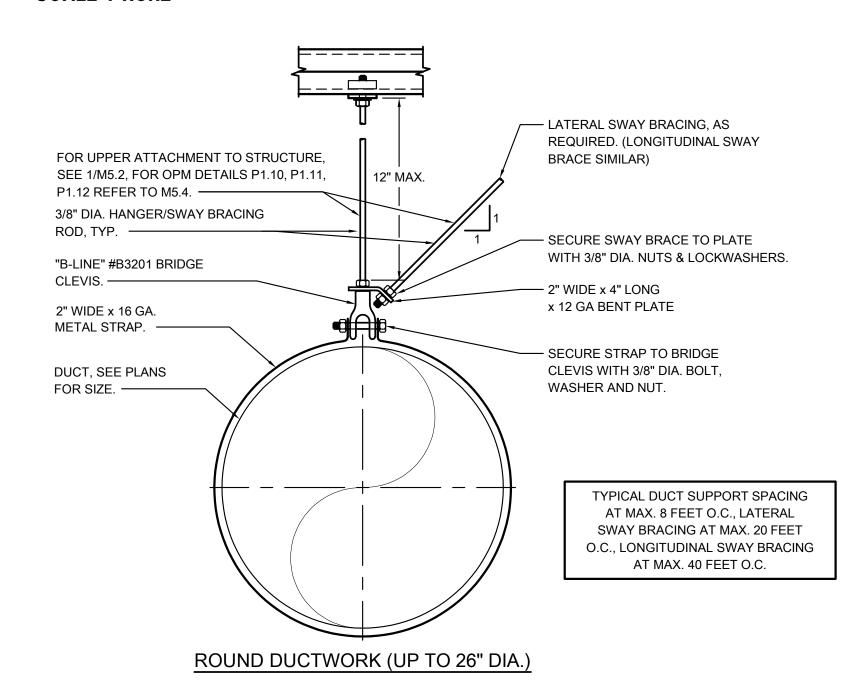




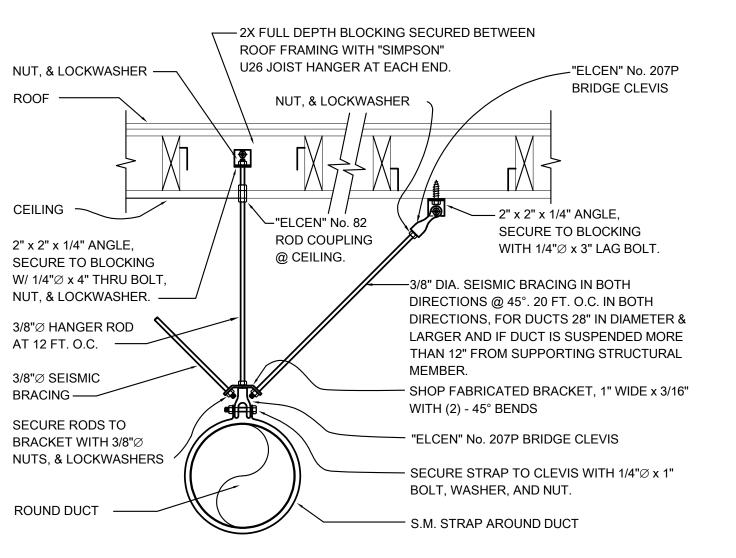


UPPER ATTACHMENT AT STRUCTURE

SCALE : NONE



TYPICAL EXPOSED ROUND DUCT SUPPORT 2 SCALE: NONE M5.2



PROVIDE ROD STIFFENER WHEN TOP OF SHOP FABRICATED BRACKET IS GREATER THAN 18" TOP OF BRACKET TO UNDERSIDE OF 4X4 BLOCKING.

DUCT HANGER DETAIL

SCALE: NONE

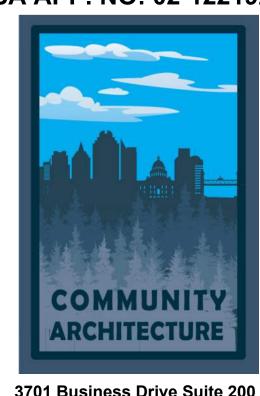
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M5.2

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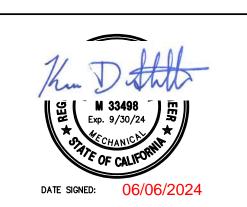
DATE: 06/27/2024

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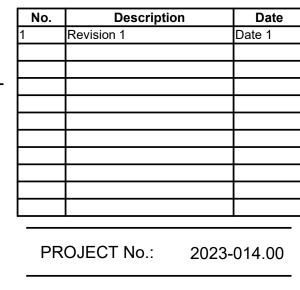
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD STOCKTON, CA 95207

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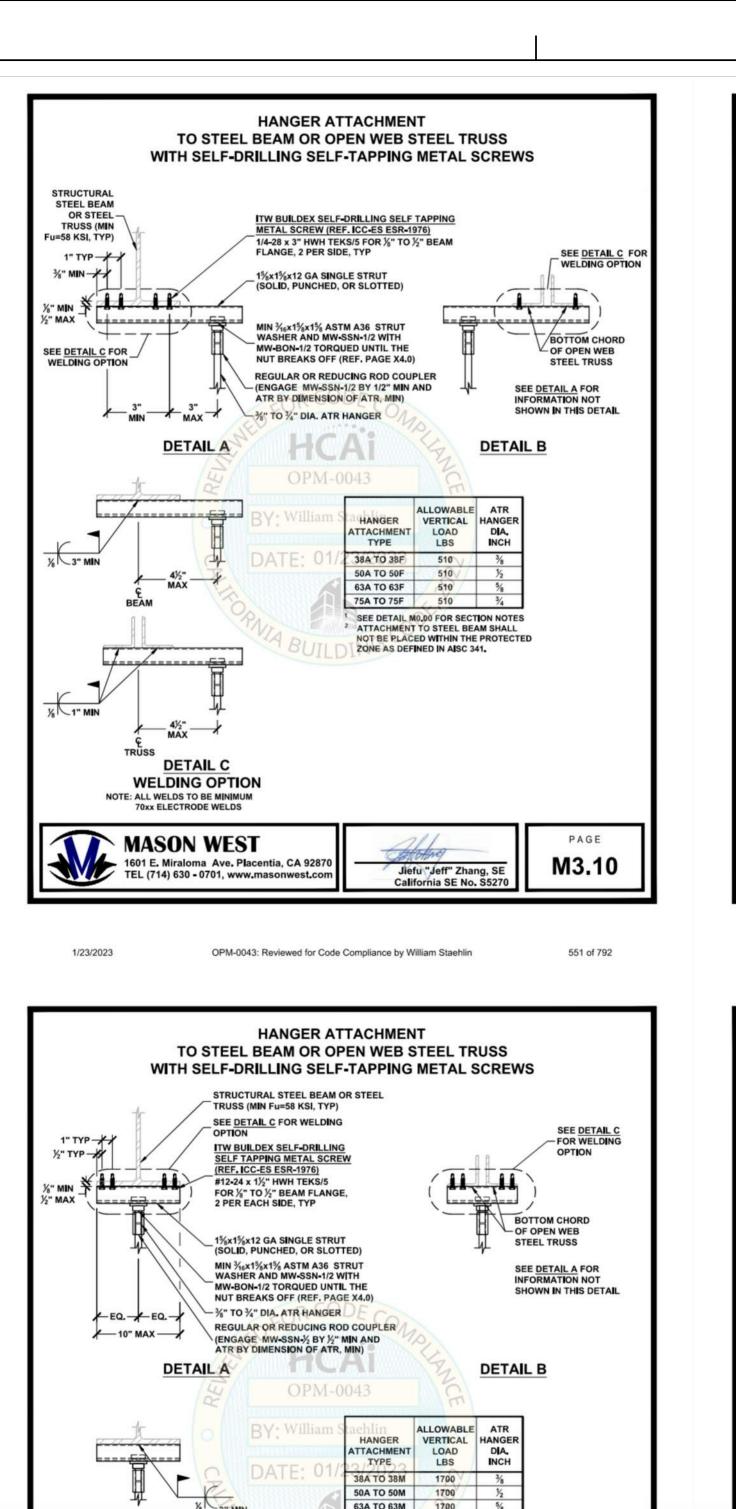
REVISIONS



CONSTRUCTION DOCUMENTS

MECHANICAL DETAILS

M5.2



SEE DETAIL MO,00 FOR SECTION NOTES

NOT BE PLACED WITHIN THE PROTECTED

California SE No. S52

Jiefu "Jeff" Zhang, SE

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California SE No. S527

OPM-0043: Reviewed for Code Compliance by William Staehlin

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M3.11

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DETAIL C

WELDING OPTION

NOTE: ALL WELDS TO BE MINIMUM

MASON WEST

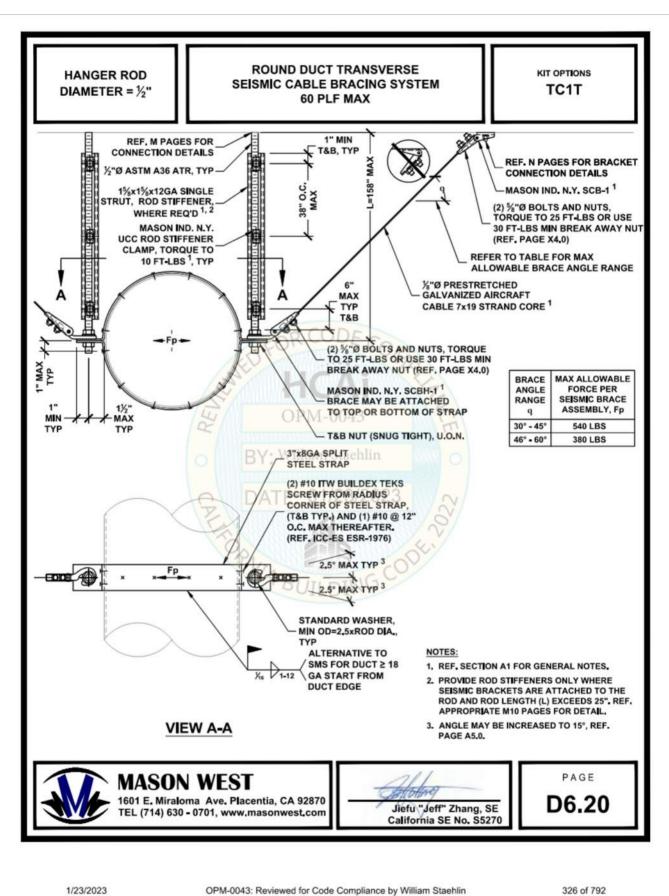
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1/23/2023

INI %



ROUND DUCT LONGITUDINAL

60 PLF MAX

SEISMIC CABLE BRACING SYSTEM

HANGER ROD

REF. M PAGES FOR

CONNECTION DETAILS

½"Ø ASTM A36 ATR, TYP-

1%x1%x12GA SINGLE STRUT, ROD STIFFENER, WHERE_

MASON IND. N.Y. UCC ROD

T&B NUT (SNUG TIGHT), U.O.N.

2) #10 ITW BUILDEX TEKS

SCREW FROM RADIUS

CORNER OF STEEL STRAP, (T&B TYP.) AND

(1) #10 @ 12" O.C. MAX THEREAFTER. (REF.

ICC-ES ESR-1976)

STANDARD WASHER

VIEW A-A

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MASON WEST

MIN OD=2.5xROD DIA., TYP

3"x8GA SPLIT

STEELSTRAF

FT-LBS 1, TYP

DIAMETER = 1/2

KIT OPTIONS

REF. N PAGES FOR BRACKET

ORQUE TO 25 FT-LBS OR USE 30

BRACE MAX ALLOWABLE

q ASSEMBLY, Fp

ANGLE FORCE PER
RANGE SEISMIC BRACE

30° - 45° 540 LBS

46° = 60° 380 LBS

FT-LBS MIN BREAK AWAY NUT

CONNECTION DETAILS

(2) %"Ø BOLTS AND NUTS

(REF, PAGE X4.0)

ALLOWABLE BRACE ANGLE RANGE

REFER TO TABLE FOR MAX

1/4"Ø PRESTRETCHED GALVANIZED

ALTERNATIVE TO

/ SMS FOR DUCT ≥ 18

1. REF. SECTION A1 FOR GENERAL NOTES.

2. PROVIDE ROD STIFFENERS ONLY WHERE

SEISMIC BRACKETS ARE ATTACHED TO TH

ROD AND ROD LENGTH (L) EXCEEDS 25", RE

D6.21

328 of 792

APPROPRIATE M10 PAGES FOR DETAIL.

(2) %"Ø BOLTS AND NUTS

MASON IND. N.Y. SCBH-1

- BRACE MAY BE ATTACHED

15° MAX TYP Xis 1-12 GA START FROM

Jiefu "Jeff" Zhang, Si California SE No. S52

(REF. PAGE X4.0)

15° MAX TYP

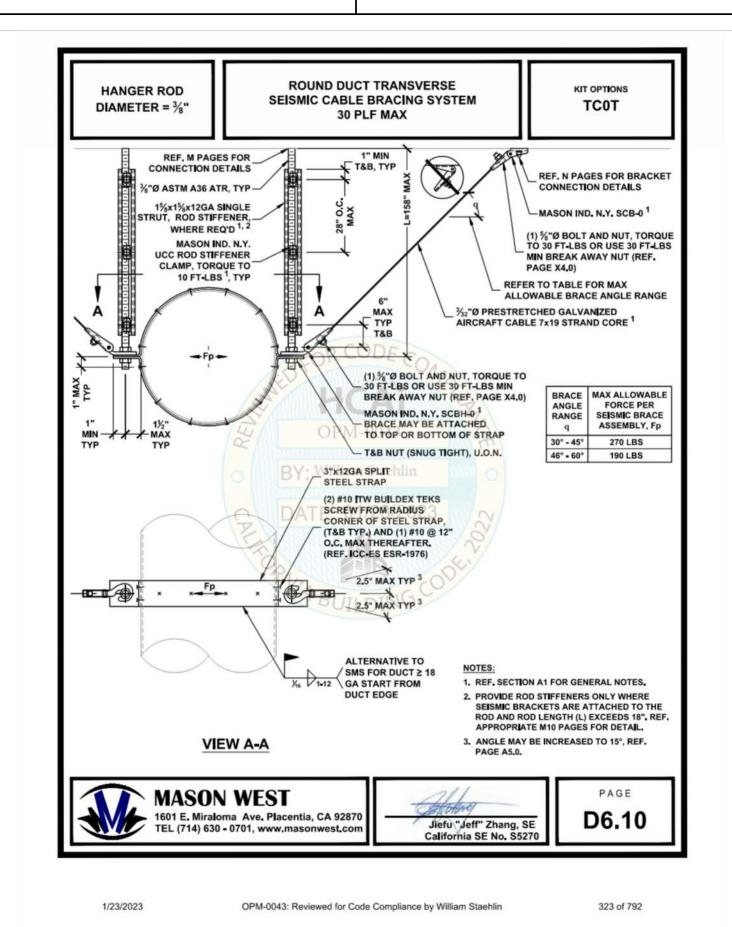
15° MAX TY

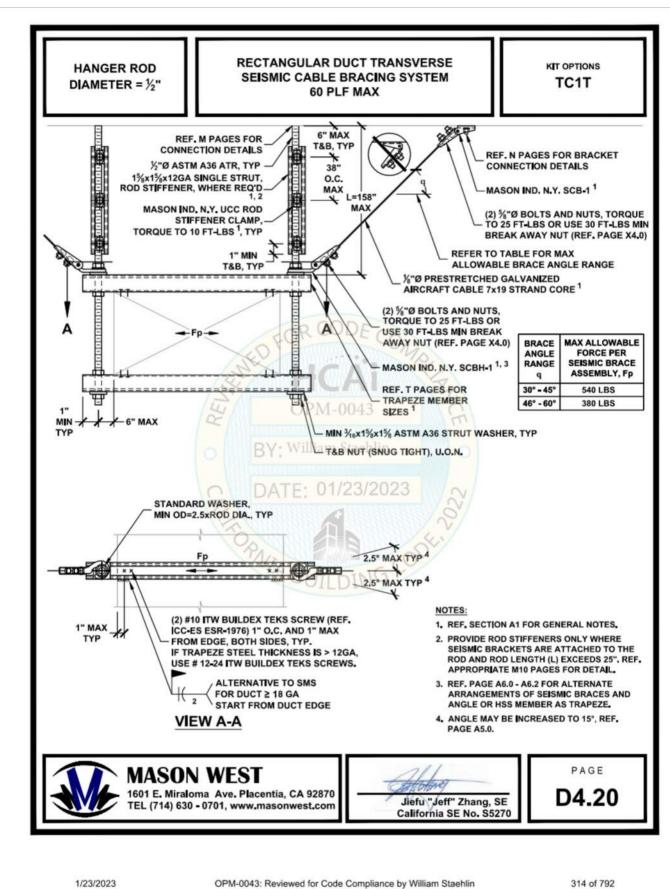
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TORQUE TO 25 FT-LBS OR USE

TO TOP OR BOTTOM OF STRAP

AIRCRAFT CABLE 7x19 STRAND CORE





RECTANGULAR DUCT LONGITUDINAL

SEISMIC CABLE BRACING SYSTEM

60 PLF MAX

HANGER ROD

REF, M PAGES FOR

CONNECTION DETAILS

1/4"Ø ASTM A36 ATR. TYP -

ROD STIFFENER, WHERE_

MASON IND. N.Y. UCC ROD

TORQUE TO 10 FT-LBS 1, TYP

(3) #10 ITW BUILDEX TEKS

REW (REF. ICC-ES ESR-1976)

EDGE, BOTH SIDES, TYP

TRAPEZE STEEL THICKNESS

ALTERNATIVE TO

SMS FOR DUCT ≥ 18 ___

DUCT EDGE

GA START FROM

IS > 12GA, USE # 12-24 ITW

15/x15/x12GA SINGLE STRUT.

DIAMETER = 1/2"

KIT OPTIONS

BRACE MAX ALLOWABLE FORCE PER

RANGE SEISMIC BRACE
ASSEMBLY, Fp

46° - 60° 380 LBS

1. REF. SECTION A1 FOR GENERAL NOTES.

2. PROVIDE ROD STIFFENERS ONLY WHERE

APPROPRIATE M10 PAGES FOR DETAIL.

ANGLE OR HSS MEMBER AS TRAPEZE.

CCENTRIC LOAD DISTRIBUTION WHEN

DETERMINING THE Fp VALUE USED IN DESIG

D4.21

4. DESIGN PROFESSIONAL SHALL CONSIDER

Jiefu "Jeff" Zhang, Sl

California SE No. S52

3. REF. PAGE A6.0 - A6.2 FOR ALTERNATE

SEISMIC BRACKETS ARE ATTACHED TO TH

ROD AND ROD LENGTH (L) EXCEEDS 25", RE

ARRANGEMENTS OF SEISMIC BRACES AND

540 LBS

REF. N PAGES FOR BRACKET

2) 5/40 BOLTS AND NUTS TOPOUR

- TO 25 FT-LBS OR USE 30 FT-LBS MIN

BREAK AWAY NUT (REF. PAGE X4.0)

CONNECTION DETAILS

-MASON IND. N.Y. SCB-1 1

REFER TO TABLE FOR MAX

(2) %"Ø BOLTS AND NUTS, TORQUE

BREAK AWAY NUT (REF. PAGE X4.0)

- MASON IND. N.Y. SCBH-1 1,3

REF. T PAGES FOR

TRAPEZE MEMBER

MIN % x1%x1% ASTM A36 STRUT WASHER, TYP

- T&B NUT (SNUG TIGHT), U.O.N.

15° MAX, TYP.

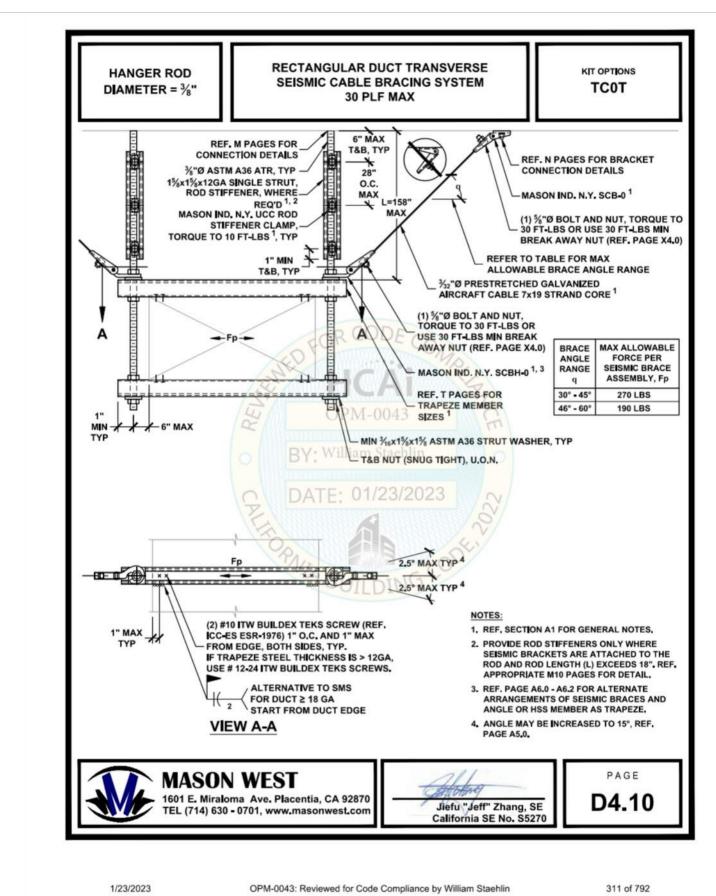
STANDARD WASHER

MIN OD=2.5xROD DIA., TYP

ALLOWABLE BRACE ANGLE RANGE

1/8"Ø PRESTRETCHED GALVANIZED

AIRCRAFT CABLE 7x19 STRAND CORE



RECTANGULAR DUCT LONGITUDINAL

SEISMIC CABLE BRACING SYSTEM

30 PLF MAX

HANGER ROD

DIAMETER = 3/8"

CONNECTION DETAILS

3/"Ø ASTM A36 ATR. TYP -

ROD STIFFENER, WHERE-

STIFFENER CLAMP

Fp⁴

(2) #10 ITW BUILDEX TEKS

1" O.C. AND 1" MAX FRO

EDGE, BOTH SIDES, TYP.

BUILDEX TEKS SCREWS.

CREW (REF. ICC-ES ESR-1976

TRAPEZE STEEL THICKNESS

IS > 12GA, USE # 12-24 ITW

ALTERNATIVE TO

MS FOR DUCT ≥ 18 __

GA START FROM

DUCT EDGE

1/23/2023

HANGER ROD

DIAMETER = $\frac{3}{8}$ "

MIN * * * 6" MAX

Fp⁴

VIEW A-A

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REF. M PAGES FOR

CONNECTION DETAILS

3/8"Ø ASTM A36 ATR, TYP -

ROD STIFFENER, WHERE_

STIFFENER CLAMP.

%x1%x12GA SINGLE STRUT,

MASON IND. N.Y. UCC ROD

TORQUE TO 10 FT-LBS 1, TYP

(2) #10 ITW BUILDEX TEKS

SCREW 1" O.C. AND 1" MAX

IS > 12GA, USE #12-24 ITW

BUILDEX TEKS SCREWS.

FROM EDGE, BOTH SIDES, TYP

IF TRAPEZE STEEL THICKNESS 4 6

ALTERNATIVE

VIEW A-A

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MASON WEST

TO SMS FOR

START FROM

DUCT EDGE

DUCT ≥ 18 GA

MASON WEST

1%x1%x12GA SINGLE STRUT

MASON IND. N.Y. UCC ROD

TORQUE TO 10 FT-LBS 1, TYP

KIT OPTIONS

BRACE MAX ALLOWABLE

RANGE SEISMIC BRACE ASSEMBLY, Fp

30° - 45° 270 LBS

46° - 60° 190 LBS

1. REF. SECTION A1 FOR GENERAL NOTES.

2. PROVIDE ROD STIFFENERS ONLY WHERE

SEISMIC BRACKETS ARE ATTACHED TO THE

ROD AND ROD LENGTH (L) EXCEEDS 18", RE

APPROPRIATE M10 PAGES FOR DETAIL.

ARRANGEMENTS OF SEISMIC BRACES AND

ANGLE OR HSS MEMBER AS TRAPEZE.

4. DESIGN PROFESSIONAL SHALL CONSIDER

ECCENTRIC LOAD DISTRIBUTION WHEN

Jiefu "Jeff" Zhang, SE California SE No. S527

DETERMINING THE Fp VALUE USED IN DESIG

D4.11

312 of 792

KIT OPTIONS

TC0A

REF. N PAGES FOR BRACKET

(1) %"Ø BOLT AND NUT, TORQUE T

- 30 FT-LBS OR USE 30 FT-LBS MIN

BREAK AWAY NUT (REF. PAGE X4.

FORCE PER

ASSEMBLY, Fp

270 LBS

313 of 792

RANGE SEISMIC BRACE

46° - 60° 170 LBS

CONNECTION DETAILS

MASON IND. N.Y. SCB-0 1

REFER TO TABLE FOR MAX

32"Ø PRESTRETCHED GALVANIZED

(1) %"Ø BOLT AND NUT. TORQUE TO

BREAK AWAY NUT (REF. PAGE X4.0)

30 FT-LBS OR USE 30 FT-LBS MIN

MASON IND. N.Y. SCBH-0 1,3

REF. T PAGES FOR

TRAPEZE MEMBER

MIN 3/6x15/8x15/8 ASTM A36

15° MAX TYP

- T&B NUT (SNUG TIGHT), U.O.N

Jiefu "Jeff" Zhang, SE

California SE No. S527

AIRCRAFT CABLE 7x19 STRAND CORE 1

ALLOWABLE BRACE ANGLE RANGE

3. REF. PAGE A6.0 - A6.2 FOR ALTERNATE

ANGLE FORCE PER

REF. N PAGES FOR BRACKET

(1) %"Ø BOLT AND NUT, TORQUE TO

BREAK AWAY NUT (REF. PAGE X4.0)

- 30 FT-LBS OR USE 30 FT-LBS MIN

-MASON IND. N.Y. SCB-0 1

ALLOWABLE BRACE ANGLE RANGE

3/32"Ø PRESTRETCHED GALVANIZED

AIRCRAFT CABLE 7x19 STRAND CORE

REFER TO TABLE FOR MAX

1) %"Ø BOLT AND NUT, TORQUE TO

BREAK AWAY NUT (REF. PAGE X4.0)

MASON IND. N.Y. SCBH-0 1, 3

REF. T PAGES FOR

TRAPEZE MEMBER

- MIN %6x1%x1% ASTM A36 STRUT WASHER, TYP

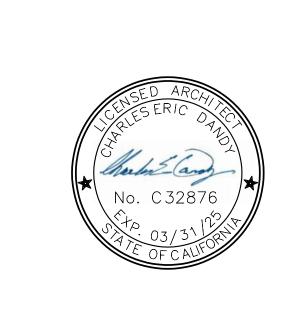
T&B NUT (SNUG TIGHT), U.O.N.

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RECTANGULAR DUCT ALL-DIRECTIONAL

SEISMIC CABLE BRACING SYSTEM

30 PLF MAX



IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

06/27/2024

DSA APP. NO: 02-122192

RCHITECTURE

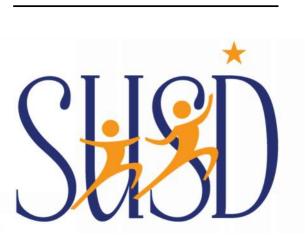
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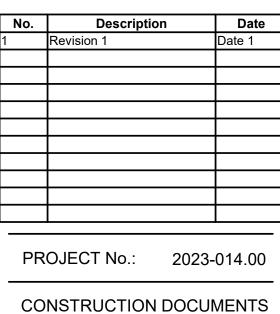
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT



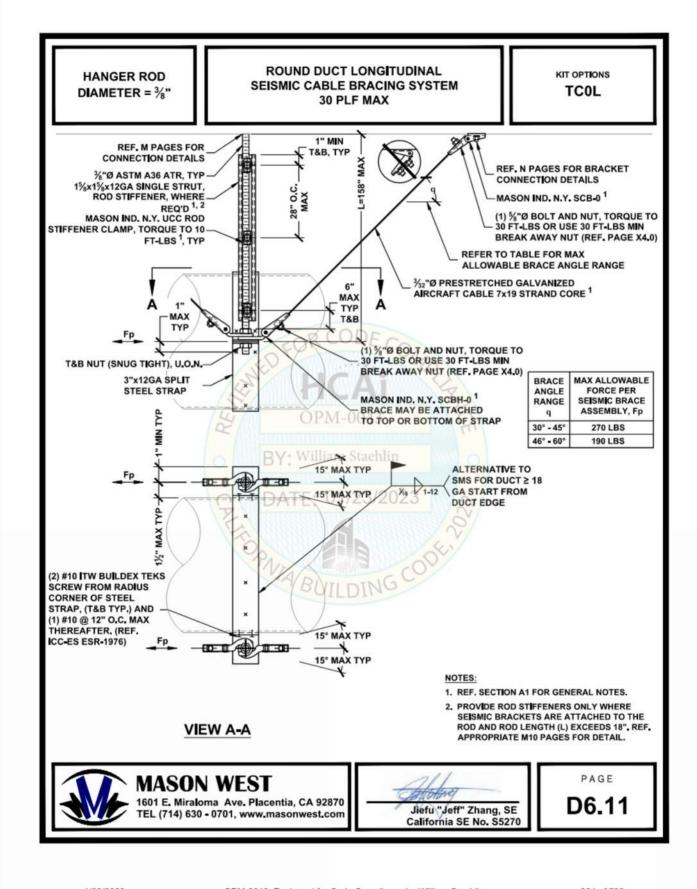
1621 BROOKSIDE ROAD STOCKTON, CA 95207

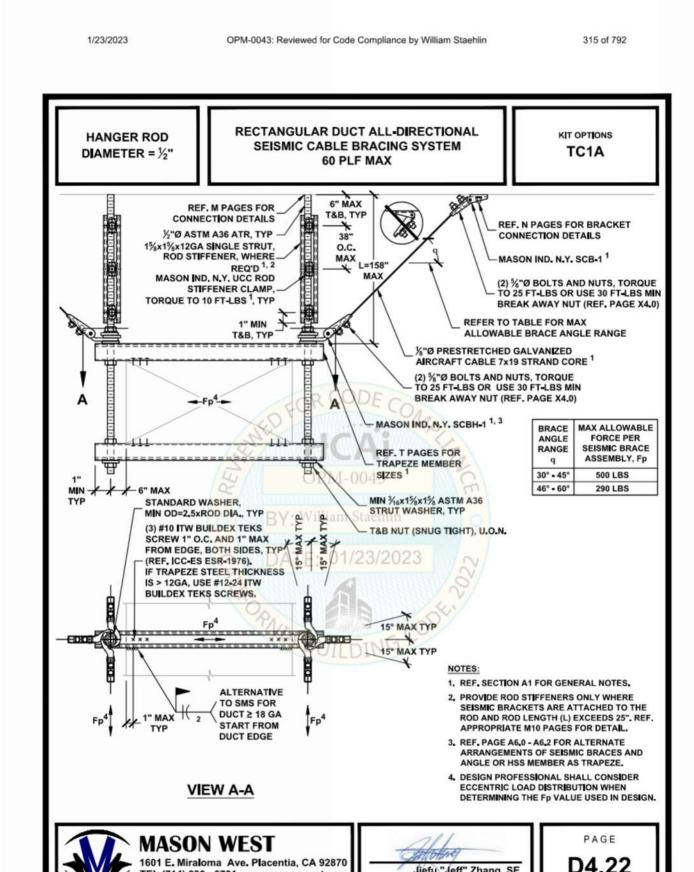
STOCKTON UNIFIED SCHOOL **DISTRICT**

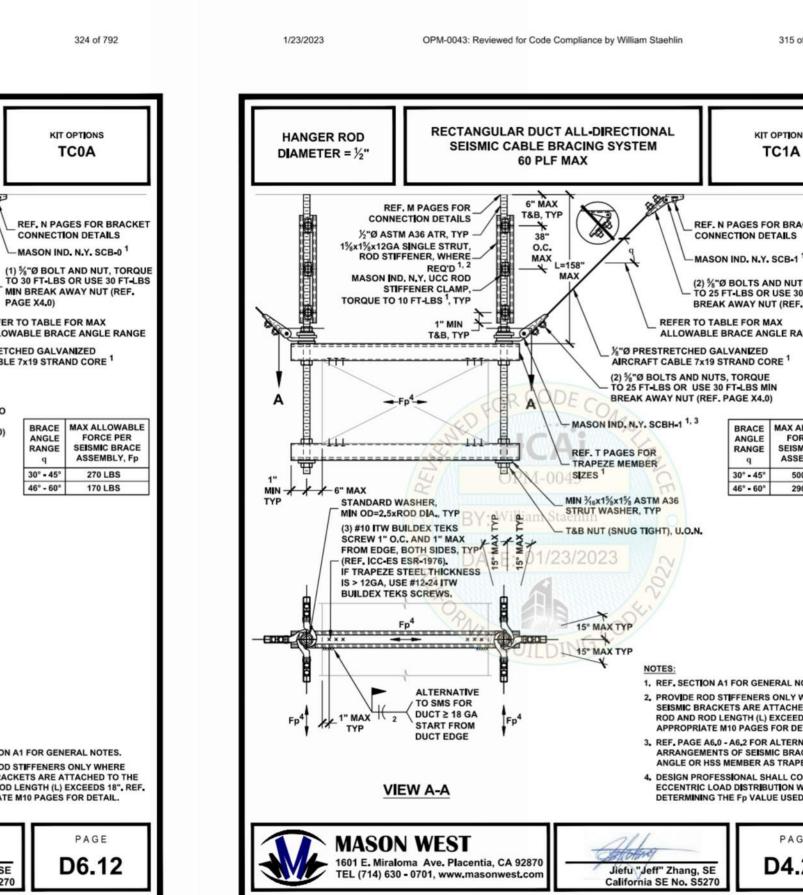
REVISIONS



MECHANICAL



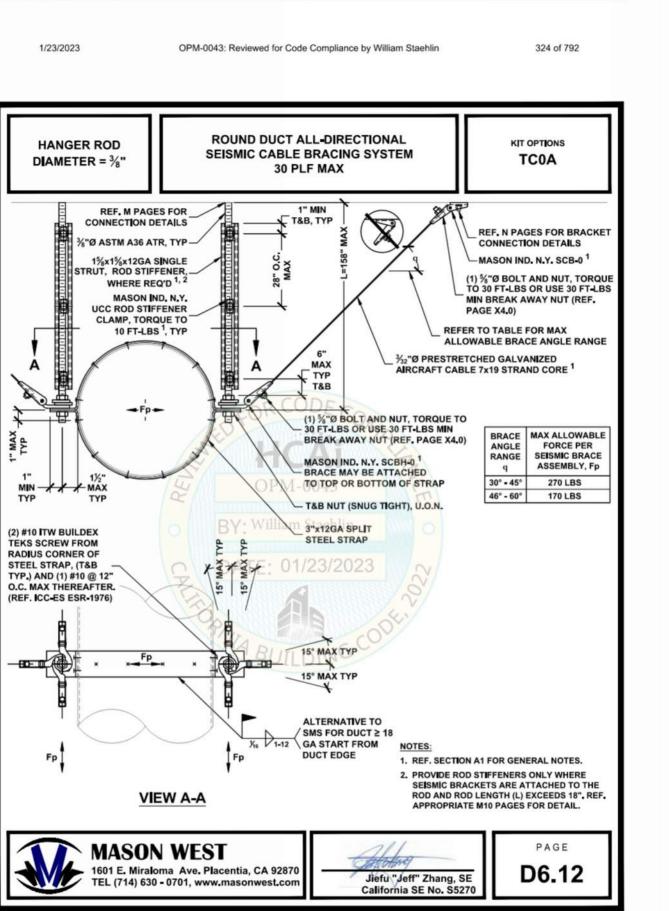


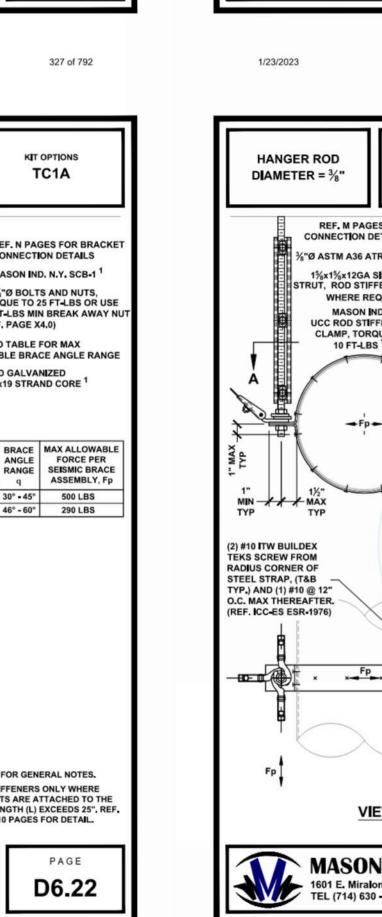


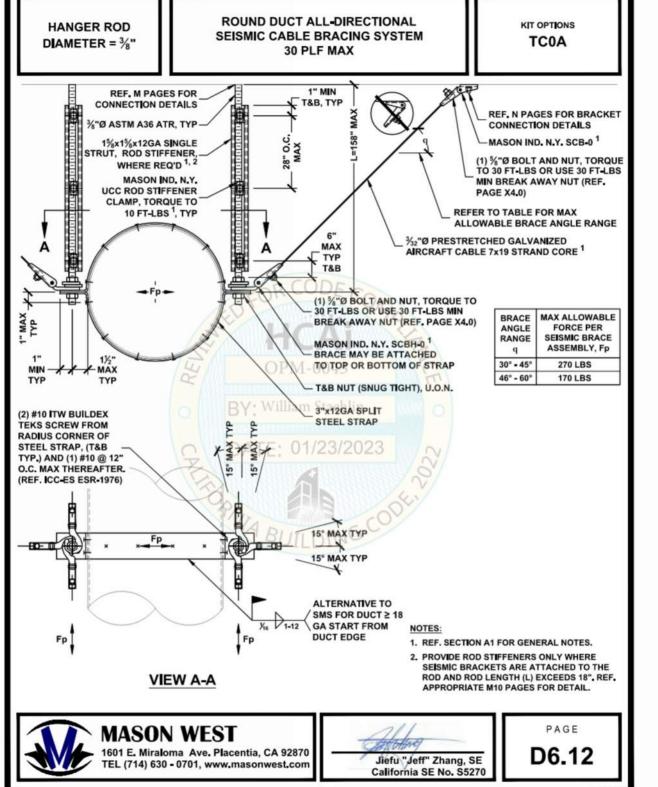
MASON WEST

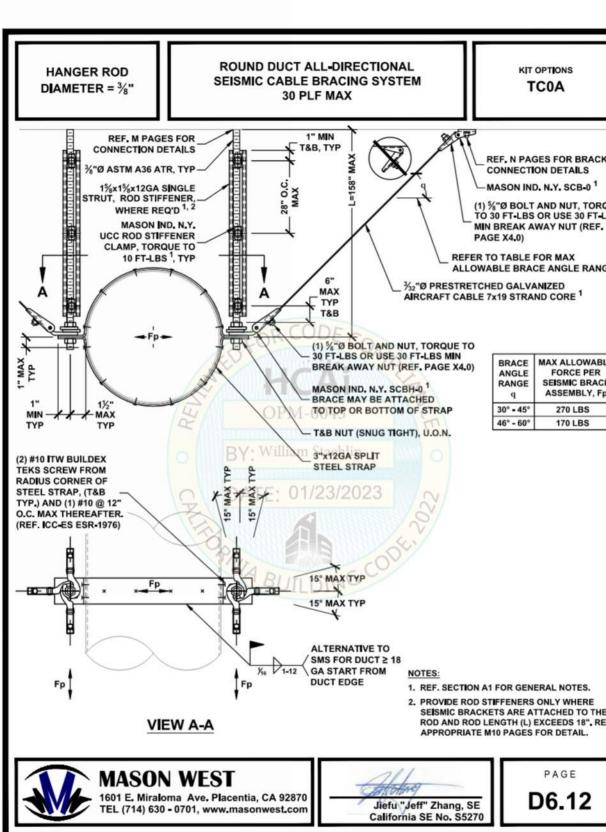
1601 E. Miraloma Ave. Placentia, CA 92870

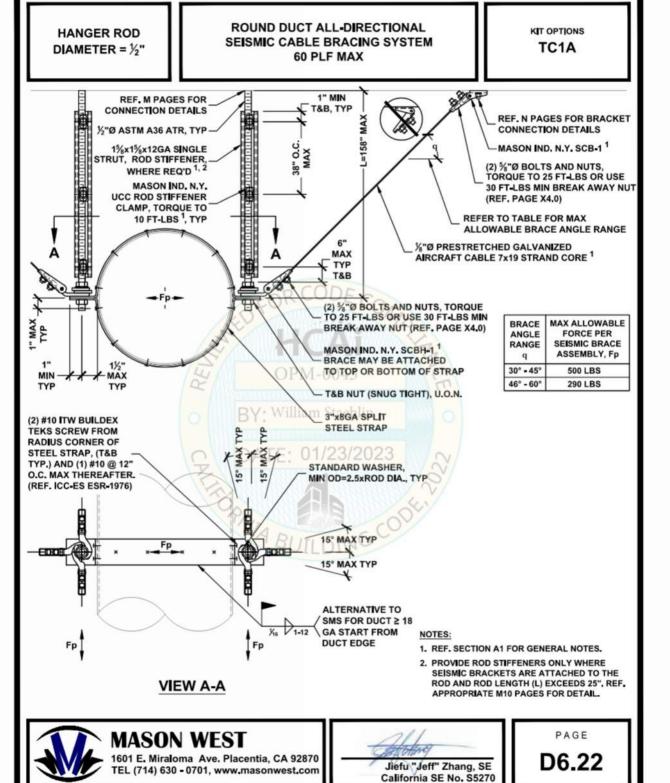
TEL (714) 630 - 0701, www.masonwest.com



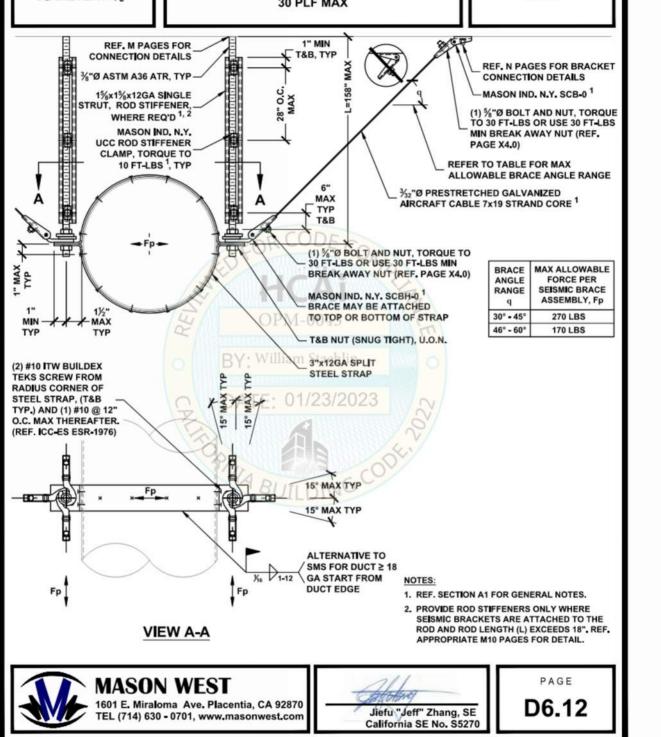


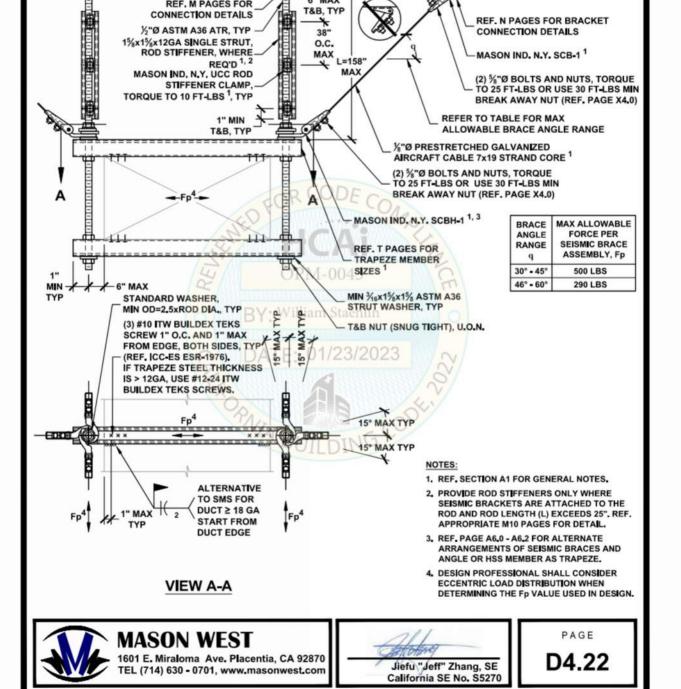






OPM-0043: Reviewed for Code Compliance by William Staehlin





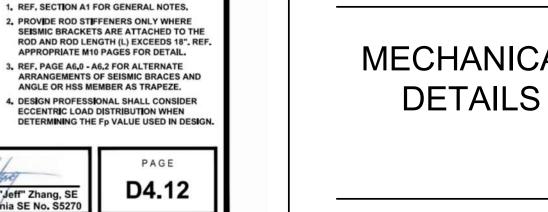
1/23/2023 OPM-0043: Reviewed for Code Compliance by William Staehlin

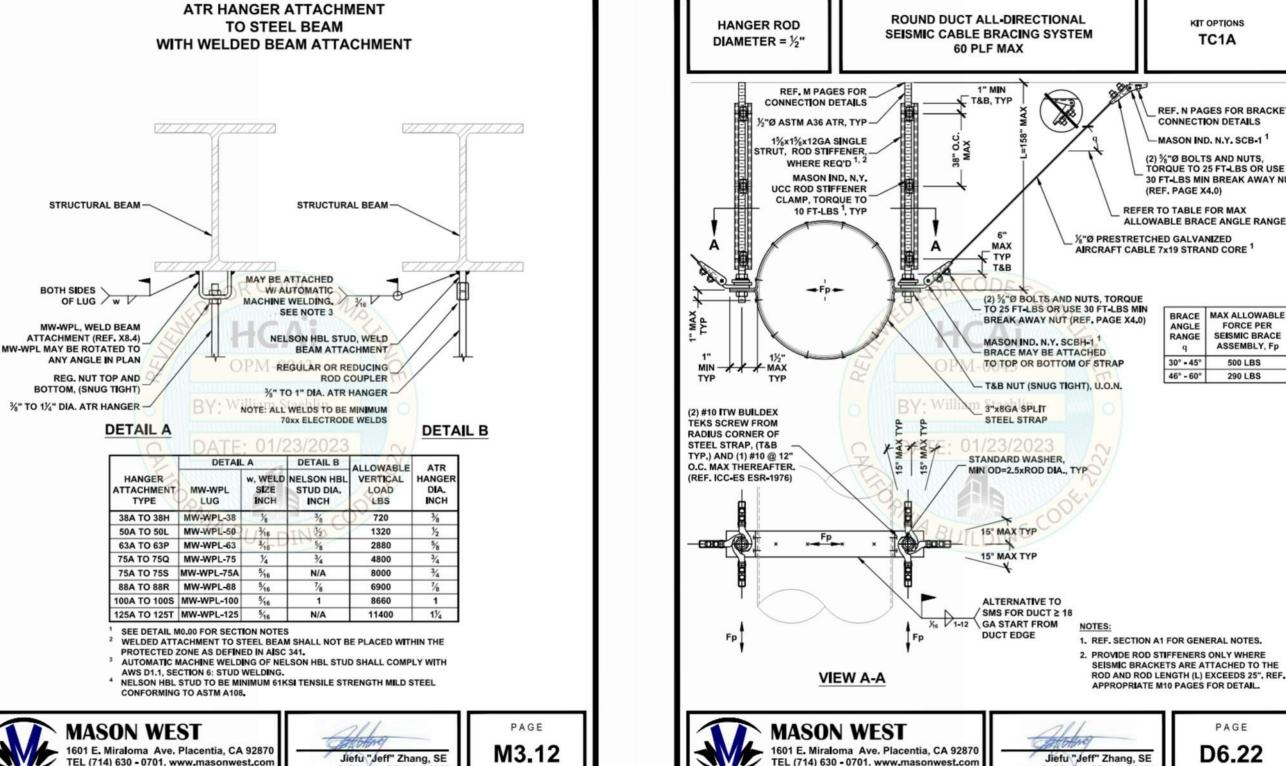
325 of 792 1/23/2023

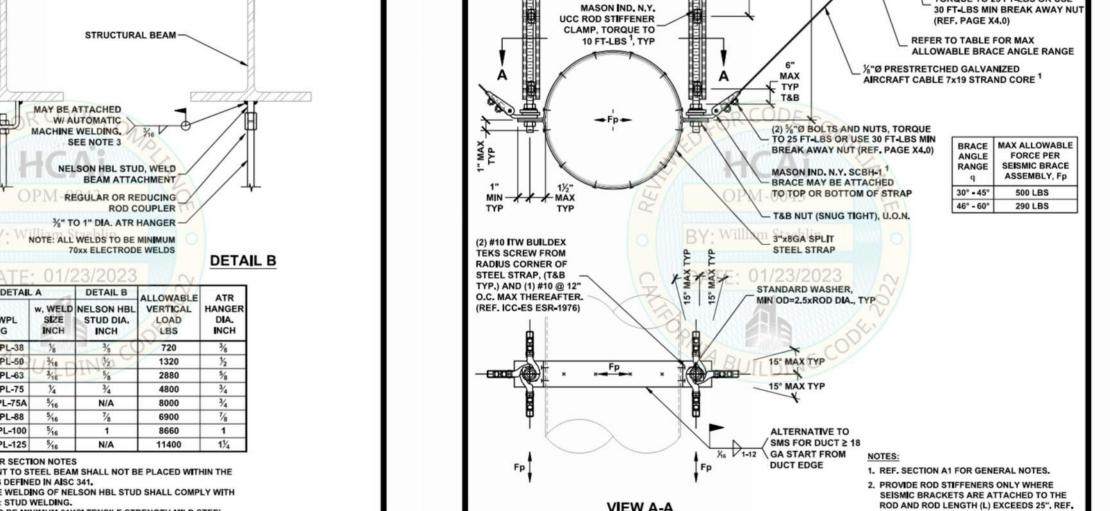
OPM-0043: Reviewed for Code Compliance by William Staehlin

316 of 792

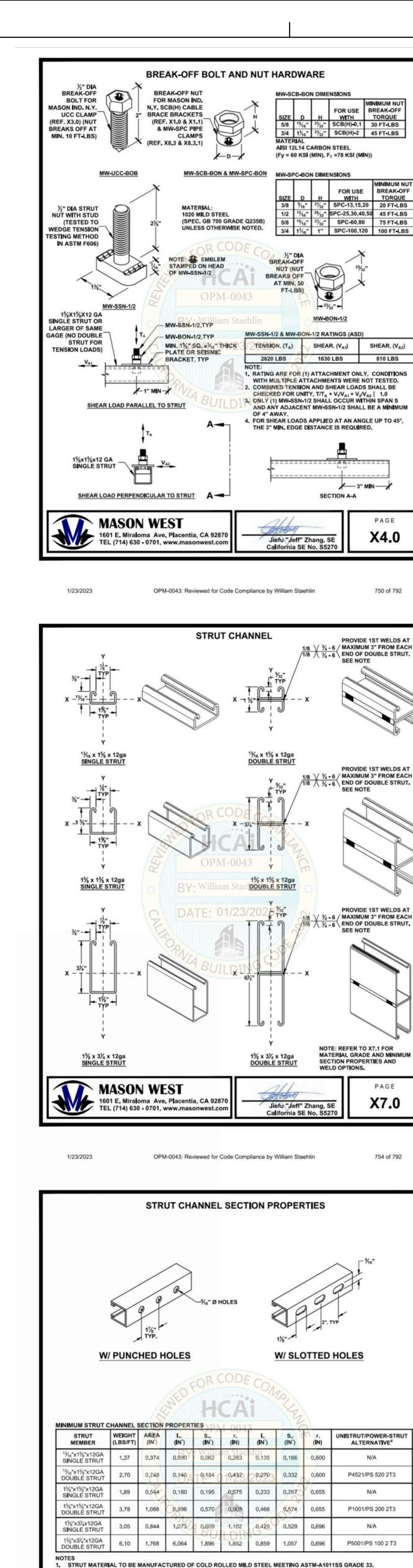
OPM-0043: Reviewed for Code Compliance by William Staehlin 1/23/2023







1/23/2023



 $^{13}\!\!/_{6}$ " STRUT MAY BE SUBSTITUTED WITH $^{1}\!\!/_{6}$ " STRUT OF SAME $1^{1}\!\!/_{6}$ " HEIGHT AND 12 ga THICKNESS MATERIAL, RATED LOADS AT BOLTED CONNECTIONS SHOWN IN OPM-0043 ARE NOT VALID AT SLOTTED HOLES IN STRUT CHANNEL.

UNISTRUT P4521, P1001, AND P5001 OR POWER-STRUT PS 520 2T3, PS 200 2T3, AND PS 100 2T3 DOUBLE STRUT MEMBERS

Jiefu "Jeff" Zhang, Si California SE No. S52 PAGE

X7.1

755 of 792

WITH FACTORY SPOT WELDING ARE ACCEPTABLE IN LIEU OF STITCH WELDING OF OUTER STRUT WALLS, CONTRACTOR

MAY USE OTHER MANUFACTURERS IF SPOT WELDING TESTING IS PROVIDED, SUBJECT TO REVIEW AND APPROVAL BY

OPM-0043: Reviewed for Code Compliance by William Staehlin

ALL BOLT HOLES SHALL BE STANDARD HOLES (BOLT DIA. + 1/16")

1601 E. Miraloma Ave. Placentia, CA 92870

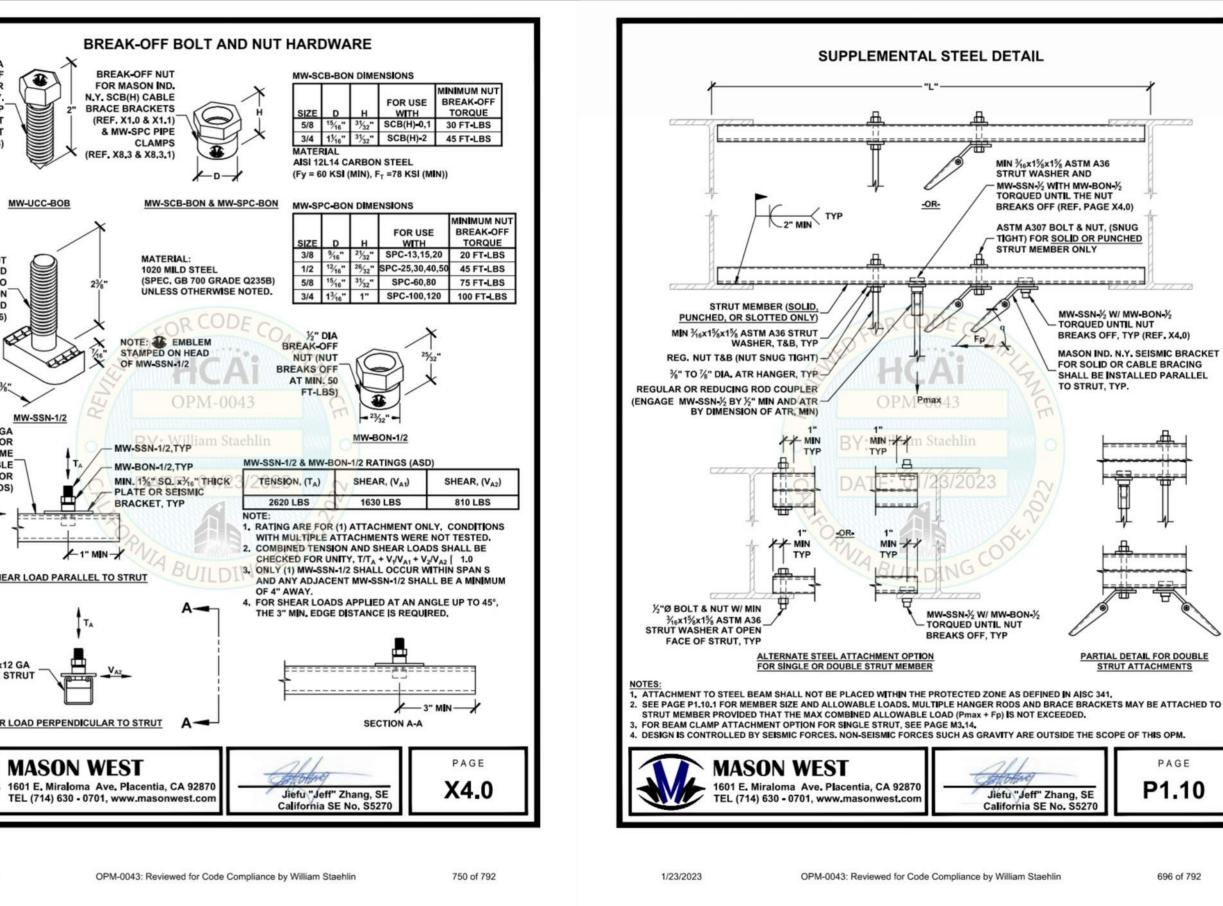
TEL (714) 630 - 0701, www.masonwest

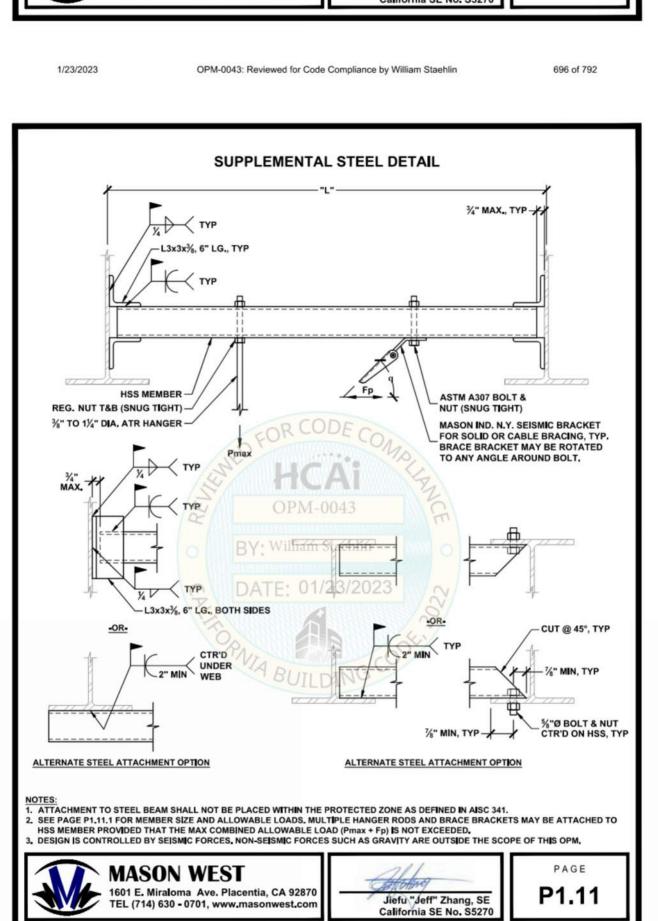
MASON WEST AND THE AUTHORITY HAVING JURISDICTION.

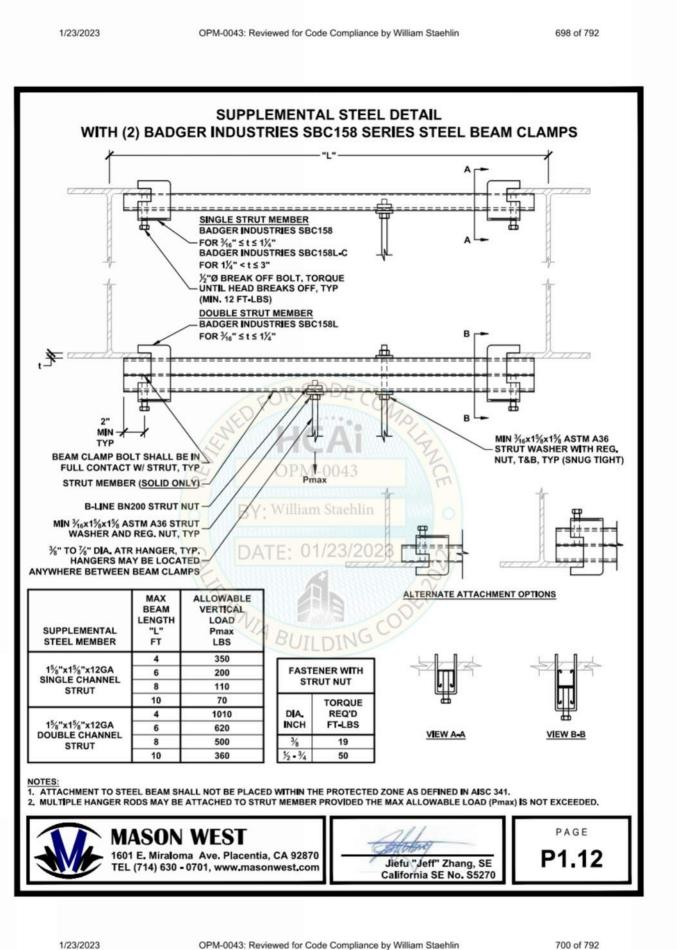
MASON WEST

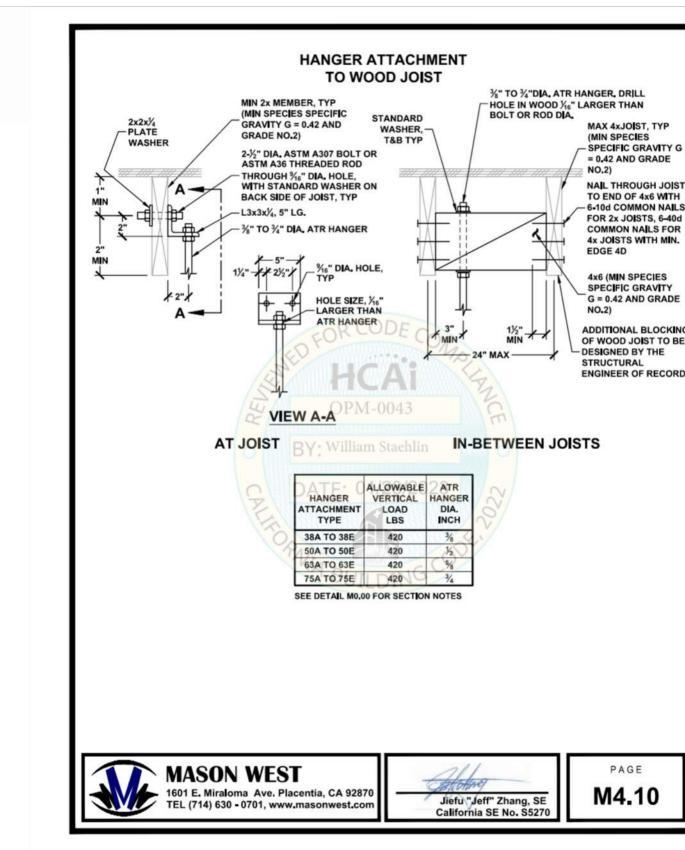
1/23/2023

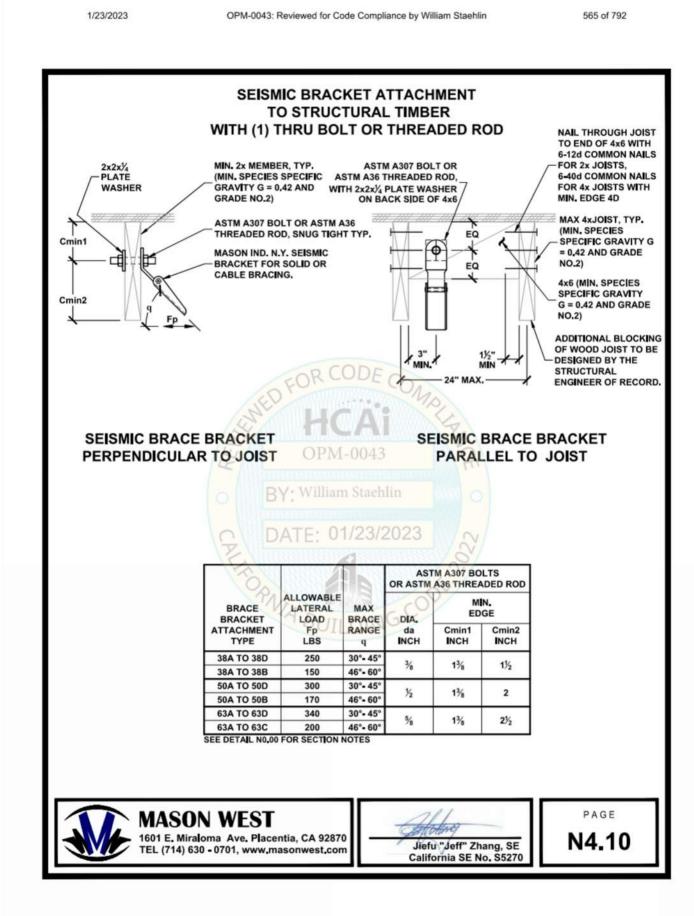
QC INI %

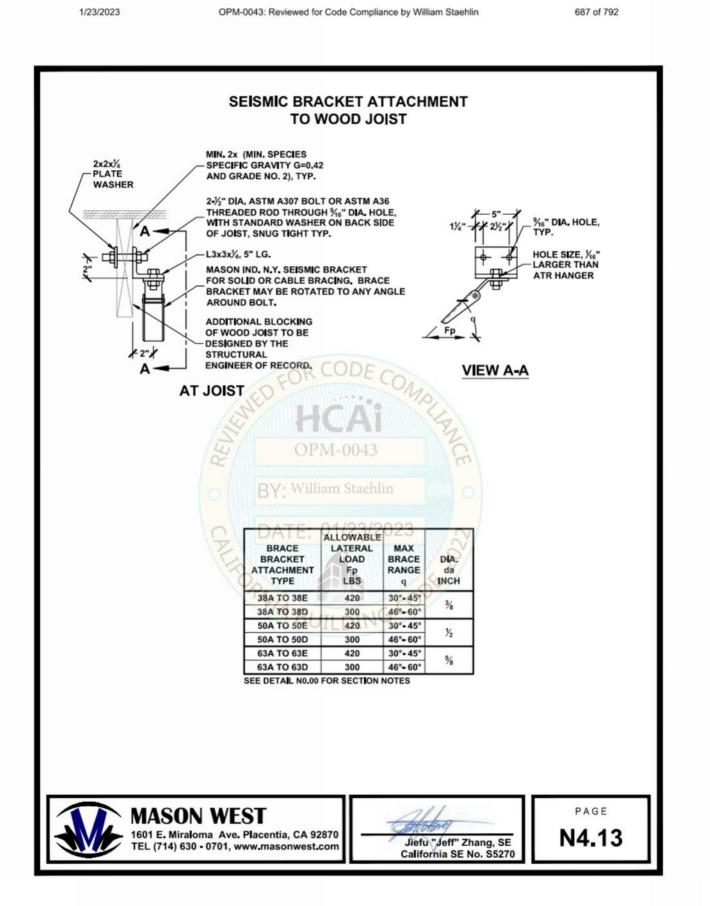










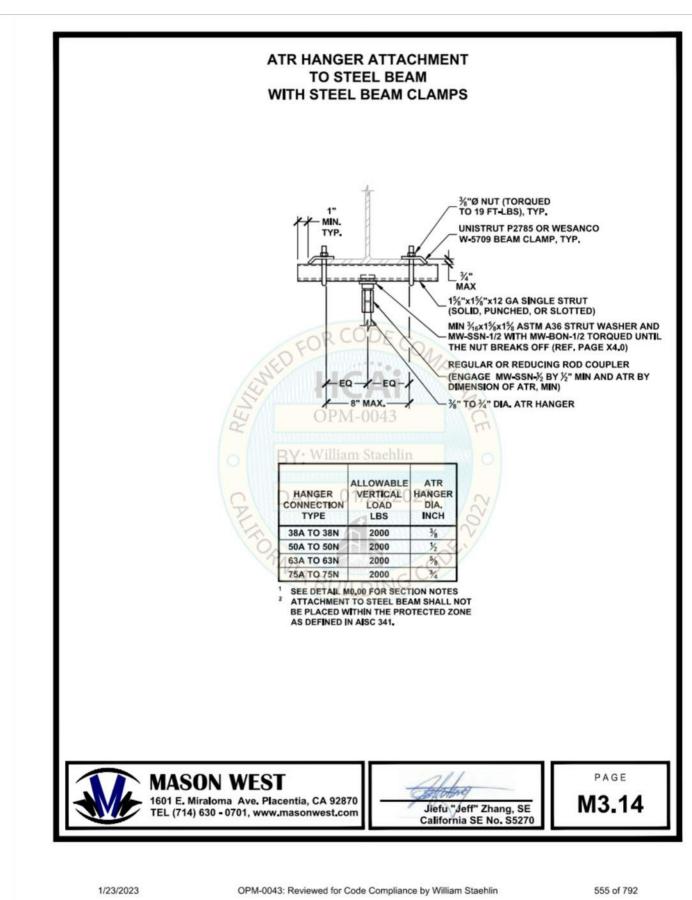


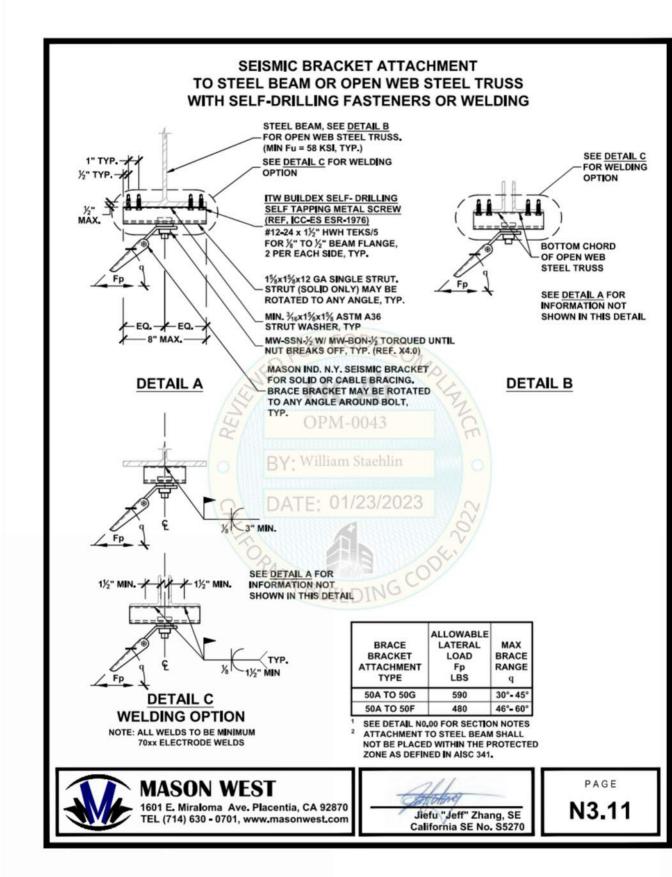
OPM-0043: Reviewed for Code Compliance by William Staehlin

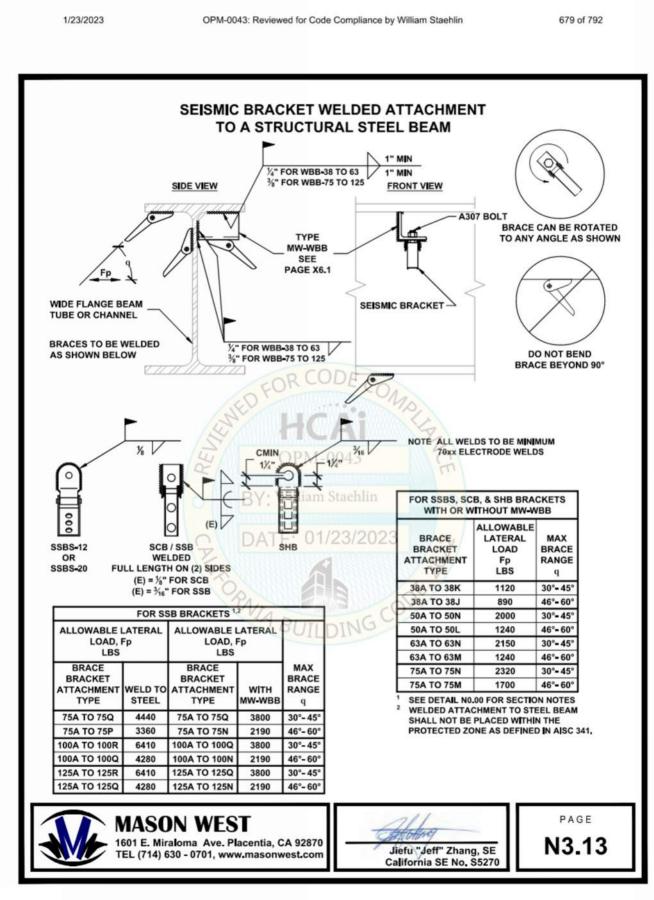
690 of 792

1/23/2023

1/23/2023







OPM-0043: Reviewed for Code Compliance by William Staehlin

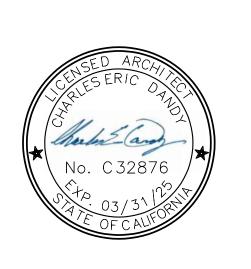
681 of 792





Sacramento, CA 95820

Phone: (916) 365-9655







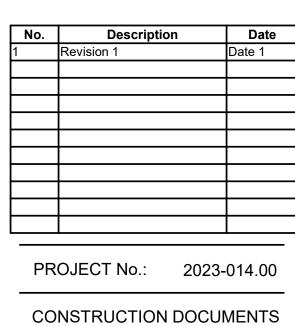
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL
DISTRICT

REVISIONS



MECHANICAL DETAILS

M5 4

1. Network diagram is representative of network layout. Controls contractor to provided controllers and network as need to install a complete system.

3. Controls contractor responsible for integrating new controllers into existing SUSD Metasys server. 4. Controls contractor to generate graphics, Metasys User Interface (MUI), and space based navigation to

2. Basis of design — JCl Metasys call Chase Baker for pricing 916.599.1335 or email at

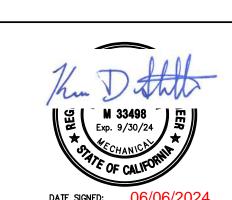
APP: 02-122192 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DSA APP. NO: 02-122192



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







NEW CGM MOUNTED IN UNIT OR IN

TO UNIT TERMINAL STRIP WITH

NEMA 3R ENCLOSURE TO INTERFACE

ADDITIONAL SENSORS AS NEEDED.



55 S LINCOLN STREET

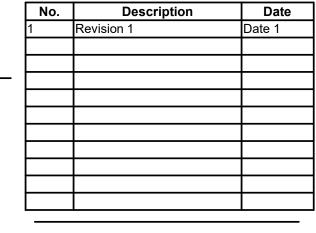
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH **AGRICULTURAL MECHANICS SHOP RENOVATION**

> 1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS



PROJECT No.: 2023-014.00 CONSTRUCTION DOCUMENTS

MECHANICAL CONTROLS

NETWORK RISER DIAGRAM- (SUSD) STAGG HS

(E) SUSD Metasys Server

SCALE: NONE

NEW CGM MOUNTED IN UNIT OR IN

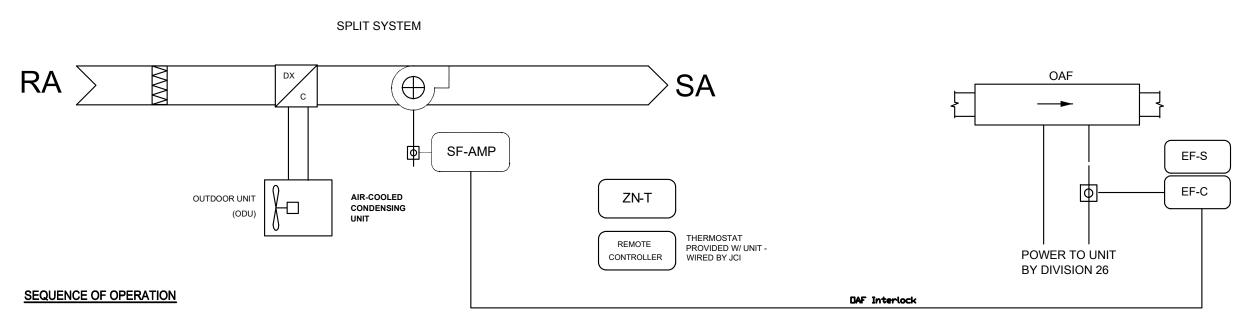
ADDITIONAL SENSORS AS NEEDED.

TO UNIT TERMINAL STRIP WITH

SCALE: NONE

SCALE: NONE

NEMA 3R ENCLOSURE TO INTERFACE



CONTRACTOR

SENSOR, BY

CONTROLS

INSTALLED BY CONTROLS

THE SPLIT SYSTEM UNIT WILL OPERATE STAND ALONE VIA ITS MANUFACTURE PROVIDED THERMOSTAT TO MAINTAIN AN ADJUSTABLE ZONE TEMPERATURE SET POINT OF 75.

THE OAF IS TO BE COMMANDED ON (EF-C) ANYTIME THE SPLIT SYSTEMS SUPPLY FAN "SF-AMP" IS ACTIVATED. THE OAF WILL BE COMMANDED OFF (EF-C) ANYTIME THE SPLIT

METASYS SHALL INSTALL AN ADDITIONAL ZONE TEMPERATURE SENSOR AND ALARM THE BAS WHEN THE ZONE TEMPERATURE IS ABOVE 80F

IF THE (EF-S) DOES NOT MATCH (EF-C) ON THE OAF, METASYS SHALL ENABLE AN ALARM ON THE BAS.

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

√M6.1

controls contractor to provide actuator with feedback DOOR (2) ROLL UP DOOR EF-C x2 Fan Dial POTENTIOMETER (WITH POWER TO UNIT BY DIVISION 26 CAGE) PROVIDED AND

Sequence of Operation

CONTRACTOR THE EXHAUST FANS WILL BE COMMANDED ON AND OFF (EF-C) VIA A 0-10V DC SIGNAL FROM THE BMS. THE BMS WILL RECEIVE A SINGULAR LOCAL VARIABLE SIGNAL FROM A WALL MOUNTED

POTENTIOMETER. ROLL UP INTERLOCK: THE BMS WILL MONITOR THE (2) ROLL UP DOORS OF THE SPACE. WHENEVER A DOOR IS OPEN THE BMS WILL COMMAND THE EF ON

WHENEVER THE DOOR CLOSES THE BMS WILL COMMAND THE EF

(EF-C). SPEED TO BE DETERMINED DURING BALANCING.

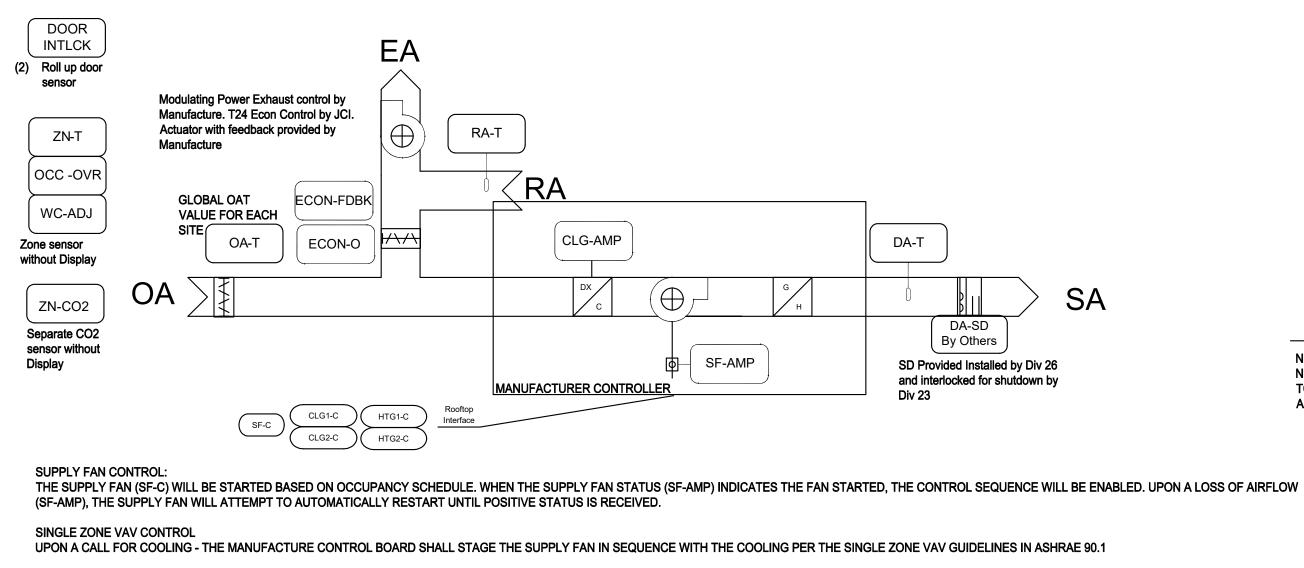
LOUVER INTERLOCK: THE BMS WILL OPEN THE RELIEF LOUVER ON THE STATUS THAT THE ROLL UP DOORS ARE SHUT BUT THE EFS ARE ON

(EF-S). IF THE EFS STATUS (EF-S) ARE FOUND TO BE OFF THEN THE RELIEF LOUVER IS TO BE CLOSED BY COMMAND ALARMS:

IF THE (EF-S) DOES NOT MATCH (EF-C), METASYS SHALL ENABLE AN ALARM. IF THE (LVR-FDBK) DOES NOT MATCH (LVR-C), METASYS SHALL ENABLE AN ALARM.

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





THE BMS CONTRACTOR SHALL PROVIDE THE TITLE 24 FDD ECONOMIZER CONTROL WITH ASSOCIATED SENSORS AND LOGIC FOR A FUNCTIONAL SYSTEM. THIS INCLUDES GLOBAL OUTSIDE AIR TEMP (OA-T, UNIQUE TO THE SITE), RETURN AIR TEMP (RA-T), DISCHARGE AIR TEMP (DA-T) AND A DAMPER ACTUATOR/COMMAND (ECON-O) AND DAMPER ACTUATOR FEEDBACK (ECON-FDBK) FOR TYPICAL DRY BULB CONTROL. THE BMS WILL GENERATE THE FAULTS AS PER THE T24 CODE AND DISPLAY THEM AS AN ALARM AT THE OWS. THE FAULTS ARE TO BE 1. AIR TEMPERATURE SENSOR FAILURE/FAULT 2. NOT ECONOMIZING WHEN IT SHOULD 3. ECONOMIZING WHEN IT SHOULD NOT 4. DAMPERS NOT MODULATING 5. EXCESS OUTDOOR AIR. THE ECONOMIZER WILL BE ENABLED WHENEVER THE OAT IS LOWER THAN THE ECON ENABLE SET POINT.

THE UNIT WILL CONTROL TO MAINTAIN THE LOCALLY ADJUSTABLE ZONE TEMPERATURE SETPOINT (ZN-SP) (WC-ADJ) AS SENSED BY THE ZONE TEMPERATURE (ZN-T) SENSOR.

OCCUPIED MODE: THE OCCUPANCY MODE WILL BE CONTROLLED VIA A NETWORK INPUT (OCC-SCHEDULE). THE OCCUPANCY MODE CAN ALSO BE OVERRIDDEN BY A NETWORK INPUT (OCC-OVERRIDE). IT CAN ALSO BE OVERRIDDEN BY A TEMPORARY OCCUPANCY BUTTON (OCC-OVR) ON THE ZONE SENSOR WILL PLACE THE UNIT IN OCCUPIED MODE FOR AN ADJUSTABLE TIME - USER ADJUSTABLE INITIALLY SET FOR 2 HOURS. WHEN IN OCCUPIED MODE THE FAN FAN WILL RUN CONTINUOUSLY.

THE UNIT WILL CYCLE TO MAINTAIN UNOCCUPIED ZONE SETPOINTS (CLGUNOCC-SP & HTGUNOCC-SP) DURING UNOCCUPIED PERIODS. THE FAN WILL ONLY BE ON WHEN THERE IS A CALL FOR COOLING OR HEATING AND A COMPRESSOR OR HEATER IS ENABLED. THE FAN WILL BE OFF AT ALL OTHER TIMES.

THE COOLING COIL (CLGX-C) WILL BE STAGED IN SEQUENCE TO MAINTAIN THE TEMPERATURE SETPOINT INITIALLY SET AT 73 AND VARIABLE AT THE ZONE FROM 73-77.

THEM PER THE MANUFACTURE SOO FOR DEFROST OR SUPPLEMENTAL HEAT TO MEET HEATING REQUESTS FROM THE BMS.

WHEN UNOCCUPIED THE COOLING SET POINT IS 90F (FIXED VALUE WITH NO RANGE, USER ADJUSTABLE) WHEN UNOCCUPIED THE HEATING SET POINT IS 50F (FIXED VALUE WITH NO RANGE, USER ADJUSTABLE)

UNOCCUPIED SETPOINTS:

THE AC UNITS ARE EQUIPPED WITH A MODULATING POWER EXHAUST ECONOMIZER. THE MODULATING POWER EXHAUST ECONOMIZER WITH FACTORY PROVIDED CONTROLLER WILL MODULATE THE EXHAUST FAN TO MAINTAIN THE ZONE PRESSURE SETPOINT. THE CONTROLS CONTRACTOR IS TO RUN THE PRESSURE TUBING TO ENSURE FACTORY PROVIDED MODULATING POWER EXHAUST CONTROLLER IS READING ACCURATE VALUES.

THE REHEAT COIL (HTGX-C) WILL BE STAGED IN SEQUENCE TO MAINTAIN THE TEMPERATURE SETPOINT INITIALLY SET AT 69 AND VARIABLE AT THE ZONE FROM 65-69. IF THE UNIT IS SUPPLIED WITH KW HEAT STRIPS IT WILL CONTROL

ROLL UP DOOR STATUS MONITORING:

THE BMS WILL MONITOR THE (2) ROLL UP DOORS OF THE SPACE SERVED BY THE PACKAGE AC UNIT. WHENEVER A DOOR IS OPEN FOR 7.5 MIN THE BMS WILL DISABLE HEATING AND COOLING ON THE UNIT, BUT KEEP FAN OPERATION. WHENEVER THE DOOR CLOSES THE BMS WILL REVERT BACK TO NORMAL OCCUPIED OPERATION. SEE M SHEET 2.1 FOR DETAILS.

CO2 VENTILATION: THE BMS WILL UTILIZE A ZONE CO2 SENSOR SENSOR TO MONITOR SPACE CO2 VALUE. THE BMS WILL ALARM IF THE ZONE CO2 VALUE EVER RISES ABOVE 1,000 PPM. AFTER ALARMING, THE BMS WILL MODULATE THE OSA DAMPER

FOR THE COMMON PLENUM OPEN 10% EVERY 5 MIN UNTIL THE ZONE CO2 SET POINT FALLS BELOW THE SET POINT OF 1,000 PPM AT WHICH POINT THE OSA DAMPER WILL REVERT BACK TO ITS DEFAULT POSITION. THIS SOO WILL BE APPLICABLE IF ANY OF THE CONNECTED SYSTEMS IS ABOVE SET POI.

THE BMS SYSTEM SHALL GENERATE AN ALARM IF:

-THE ZONE TEMPERATURE IS 6 DEGREES AWAY FROM SET POINT. -THE FAN COMMAND DOES NOT MATCH ITS STATUS

-THE COOLING COMMAND DOES NOT MATCH ITS STATUS

THE BMS WILL DISABLE ALL ALARMS DURING UNOCCUPIED MODE.

ADDITIONAL POINTS MONITORED BY THE BMS: SUPPLY FAN AMPERAGE (SF-AMP) **DISCHARGE AIR TEMPERATURE (DA-T)**

COMPRESSOR AMPERAGE (CLG-AMP) RETURN AIR TEMPERATURE SENSOR (RA-T)

ZONE CO2 - (ZN-CO2) ECONOMIZER POSITION FEEDBACK (ECON-FDBK)

AC UNIT CONTROL (AC-K1)

SCALE: NONE

STATE OF CALIFORNIE				
Mechanical				CALIFORNIA ENERGY COMM
CERTIFICATE OF C	.f.			NRCC-
1	s used to demonstrate compliance for mechanical 140.4, or 141.0(b)2 for alterations.	systems that are within th	e scope of the peri	mit application and are demonstrating compliance using the prescrip
Project Name:	Stagg HS Ag Shop Renovation		Report Page:	(Page 1
Project Address:		1621 W. Brookside Road	Date Prepared:	2/1
		_	_	

01 Project Location (city)	Stockton	04	Total Conditioned Floor Area	2998
02 Climate Zone	12	05	Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:			# of Stories (Habitable Above Grade)	1

B. PROJE	ECT SCOPE				
	e Includes mechanical systems or components that ar 70.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.	re within t	he scope of the permit application and are demons	strating con	npliance using the prescriptive path outlined in
	01		02		03
	Air System(s)		Wet System Components		Dry System Components
\boxtimes	Heating Air System		Water Economizer	⊠	Air Economizer
\boxtimes	Cooling Air System		Pumps		Electric Resistance Heat
	Mechanical Controls		System Piping	⊠	Fan Systems
⊠	Mechanical Controls (existing to remain, altered or new)		Cooling Towers	⊠	Ductwork (existing to remain, altered or new
			Chillers	⊠	Ventilation
			Boilers		Zonal Systems / Terminal Boxes

	Generated Date/Time:	Documentation Software: EnergyPro
ing 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

Mechanical Systems	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Stagg HS Ag Shop Renovation	Report Page: (Page 4 of 13
	Date Prepared: 2/15/2024

G. PUM	PS														
This secti	ion does not	apply to t	his projec	ct.											
H. FAN S	SYSTEMS &	AIR ECO	NOMIZE	RS											
This table	e is used to a	demonstra	te compl						40.4(e), 140	0.4(m), 170	2(c)3, and 17	70.2(c)4A for	fan systems.	Fan systems se	rving only
System Name	AC-K1	Quantit y	1	Fan System Status	New		all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	5,100	Site Elevation	84	Economizer	Differential Temperatur e
01	02	03		04		0	5	06	07	08	09		10	11	
Fan									Allow	/ance	Design				
Name or Item Tag	Fan Type	Qty		Component		Airflow Compo	through nent (%)	Water Gauge (w.g)	Compone nt Allowance	Fan Allowance (watt/cfm)		lectrical Inpu Method	ut Power	Motor Nameplate Horsepower	Design Electrical Input Power (kW)
				owance for syst aces <=6 floors		5,1	100		1306						
65			MERV 13-16 Filter upstream of thermal conditioning equipment		5,100			612					4.55		
SF	Supply	1		Gas heat		5,1	100		306		Mani	ufacturer pro	vided		1.55
			Hydronic/DX cooling coil or heat pump coil		5,1	100		612							
			Econ	omizer Return	Damper	5,1	100		204						
RF	Return	1	Exhaus	t System Base /	Allowance	4,0	000		736		Manu	ufacturer pro	vided		0
	Fan Base ince (kW)		Ex	huast/Return/F Allov	Relief/Transf wance(kW)	er Fan Ba	ise			ystem ce (kW) ³	3 78 Fan System Electrica			1.55	

	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

Mechanica			CALIFORNIA ENERGY COMMISSIO
CERTIFICATE OF	COMPLIANCE		NRCC-MCH-
Project Name:	Stagg HS Ag Shop Renovation	Report Page:	(Page 7 of 13
		Date Prepared:	2/15/202

J. VENTILATIO	N AND IND	OOR AIR QUALITY										
d:t24refnolink/	/]160.2, 160.3 ed to be docu	3(a)3D, 170.2(a)4N, 170.2	2(a)40 for high	-rise resident	ial occupan	cies. For al	terations,	4(p) and 140.4(q) for all no only ventilation systems be irflows may be shown on t	eing altered within the	scope of the permit		
01		Check the box if the pro	ject is showing	g ventilation o	calculations	on the pla	ns, or atta	ching the calculations inst	ead of completing this	table.		
02	\boxtimes	Check this box if the pre	oject included	Nonresidentia	al, Hotel/M	otel Space:	or Multifa	amily Common Use Spaces	s			
02												
03		Check the box if the pro	ject is using n	atural ventilat	ion in any	nonresiden	tial or hote	el/motel spaces to meet re	equired ventilation rat	es per 120.1(c)2.		
Nonresidentia	and Hotel/	Motel Multifamily Comn	non Use Ventil	ation System	s							
	04			05				06		07		
System Name		AC-K1	System Design OA CFM Airflow ¹		1 1087		Design Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 ²			
			All III	ow		Hallstei	All Crivi		Pro	vided		
08		09	10	11	12	13	14	15		16		
		Mechanical Ventilation Required per 120.1(c)3 ³ & 160.2(c)3						Vent per 120.1(c)4 & 160.2(c)4	DCV or Sensor Co	DCV or Sensor Controls per 120.1(d)3,		
Space Name or Item Tag	Oc	ccupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		120.1(e)3 ⁶ 160.2(c)5D 5E 160.2(c)5D		
K11 AG Shop	General	Manufacturing- non	2884			432.6	0	0	DCV	NA: Not required p		
KII AG SHOP		chemical	2004			432.0		· ·	Occ Sensor	NA: Not required space type		
17	Total System	Required Min OA CFM				433	18	Ventilation for this S	System Complies?	Yes		
	04			05				06		07		
System Name	S	HPO-SHPI-K1	System Desi Airfle	A TOTAL CONTRACTOR OF THE PARTY	17		Design Air CFM	0		20.1(c) 141.0(b)2 and 2(c)21 ²		
			Airti	OW		Hallster	All CFIVI		Pro	vided		
08		09	10	11	12	13	14	15		16		

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Documentation Software: EnergyPro

Compliance ID: EnergyPro-30211-0224-0872

Report Generated: 2024-02-15 10:29:14

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

C. COMPLIA	NCE R	ESULTS													
										al requirements compliant for			itable b	y the user. If this t	able says "DOES
01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(I), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Result
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
				Mandatory	Measu	ires Complian	ce (See	Table Q for D	etails)				COMP	LIES	

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

. ADDITIONAL REMARKS					
his table includes remarks m	ade by the permit applicant to	the Authority Having Jurisdiction	n.		
. HVAC SYSTEM SUMMAR	V (DDV & WET SYSTEMS)				
Space Conditioning System In	ntormation				
01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Hea
AC-K1	1	Single zone	New/ Addition		

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

Documentation Software: EnergyPro

Fan System Electrical Output (kW)

Report Generated: 2024-02-15 10:29:14

NRCC-MCH-E

(Page 5 of 13)

System Name	SHPO-SHPI- K1	Quantit y	1	Fan System Status	New	((5))	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	400	Site Elevation	84	Economizer	NA: <=33 kBtu/h cooling
01	02	03		04		0)5	06	07	08		09		10	11
Fan								Allow	ance			Design	**		
Name or Item Tag	Fan Type	Qty		Component		1507573 MARKET 65365	through nent (%)	Water Gauge (w.g)	nt	Fan Allowance (watt/cfm) 3		Design Electrical Input Power Method		Motor Nameplate Horsepower	Design Electrica Input Power (k)
				owance for syst aces <=6 floors		4	00		93						
SF	Supply	1		13-16 Filter up al conditioning e		4	00		56		Manu	ufacturer provided			0.15
			Lludron	ic/DX cooling co	oil or boot										1

¹ FOOTNOTES: Fans serving spaces with design background noise goals below NC35 ² Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the

Exhuast/Return/Relief/Transfer Fan Base

Allowance(kW)

CERTIFICATE OF COMPLIANCE

Supply Fan Base

Allowance (kW)

Project Name: Stagg HS Ag Shop Renovation

⁶ Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E

document										
H. EXHAUST A	IR HEAT RECOV	ERY 140.4(q), 1	70.2(c)4O							
01	02	03	04	05	06	07	08	09	10	11

Allowance (kW)3

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Mechanical Systems		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Stagg HS Ag Shop Renovation	Report Page:	(Page 8 of 13)
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Snace Name	Mechanical Ventilation	Required per 1	20.1(c)3 ³ & 1	60.2(c)3		Exh. V	/ent per 120.1(c)4 & 160.2(c)4	DCV or Sensor Controls per 120.1(d)3,		
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		20.1(e)3 ⁶ 160.2(c)5D EE 160.2(c)5D	
K121 Office	Office space	114			17.1	0	0	DCV	NA: Not required per §120.1(d)3	
K121 Office	Office space	114			17.1		0	Occ Sensor	NA: Not required space type	
17	Total System Required Min OA CFM					18	Ventilation for this S	ystem Complies?	Yes	

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system ² Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

⁶ 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices $250 \mathrm{ft}^2$ or smaller, multipurpose rooms less than $1,000 \mathrm{\,ft}^2$, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

This section does	not apply to th	s project.					
L. DISTRIBUTIO	N (DUCTWOR	K and PIPING)					
This table is used	to show compli	ance with mandatory pipe insulation requi	rements found in 120.3 and mandatory requiremen	ts found in 120.4(g) for duct sealing.			
01			nsulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to veather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.				
01		outside the conditioned space shall have	e a Class I or Class II vapor retarder. All penetration				

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Mechanical Systems CALIFORNIA ENERGY C						
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E				
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01	02	03	04	05	06	07	80	09	10	11
Name or Item Tag							er Mechanica), 170.2(c)1 8			
	Equipment Category per	= _ = = = 3	Smallest Size	Heating Output ^{2,3}			Cooling C	Output ^{2,3}	Load Calculations ^{3,4}	
	Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Available ¹ 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h
AC-K1	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	178	178	0	164.45	135	147.59	162.97
SHPO-SHPI-K1	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	8.33	12	0	9.53	9	5.49	6.69

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.

²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables. ³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

ij equipment is neating only, leave cooling output and load blank. IJ equipment is cooling only, leave neating output and loa
⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per 140,4(b) and 170,2(c).

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CERTIFICATE OF COMPLIANCE

Project Name: Stagg HS Ag Shop Renovation

Ory System Equipme	nt Efficiency (other than Package Terr	ninal Air Conditi	oners (PTAC) and	Package Terminal	Heat Pumps (PTHF), DX-DOAS and D	Dual Fuel Heat Pur	nps)
01	02	03	04	05	06	07	08	09
			Heati	ng Mode		Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficienc
AC-K1	>=135,000 and <240,000		AFUE	0.8	0.81	EER IEER	10.8 14	10.8 14
SHPO-SHPI-K1	<65,000		HSPF2	7.5	6	SEER2	14.3	15

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Fan System Name	Qty	Hours of Operation per Year	Design Su Airflow R		Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)40	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)40		Required Recovery Ratio	Energy Recovery Bypass
an Energy Ind	ex (FEI)	•					•		•	· · · · ·	
01			02					03			
Name or Item Tag			FEI Exception				FEI				
AC-K1			Embedded Fan <5HP or <4.1kW								
SHPO-SHPI-K1			Embedded Fan <5HP or <4.1kW								

AC-K1			Embedde	Embedded Fan <5HP or <4.1kW				
SH	Embedde	Embedded Fan <5HP or <4.1kW						
. SYSTEM CONTROLS					41			
This table is used to demo 141.0(b)2E 180.2(b)2 for a			atory controls in 110.2 and 1.	20.2 and pres	criptive controls	s in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L	or requirements in
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c) ¹ , 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
AC-K1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	NA: Serves < 25k ft²	EMCS	Included	NA: Alteration Project
SHPO-SHPI-K1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	NA: Serves <	EMCS	Included	NA: Alteration Project

¹FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

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Duct Leakage Test	ting								
				NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No				
The answers to the questions below apply to the following duct systems:				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?	No				
				Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes				
11	No	The scope of the project includes only	The scope of the project includes only duct systems serving healthcare facilities						
12	Yes	Duct system provides conditioned air t	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	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.						
14	No	The combined surface area of the duct	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 exter	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.						
16	No		And the second s	stem that is documented to have been previously sealed as confirmed throug s in the Reference Nonresidential Appendix NA2.	h field verificatio				
17		All Ductwork and plenums with pressu	re class rating	s shall be constructed to Seal Class A					
18		All ductwork is an extension of an exist	ting duct syste	em .					
19		Ductwork serving individual dwelling u	nit						
20		< 25 ft of new or replacement space co	< 25 ft of new or replacement space conditioning ducts installed						
21	R-8	Duct Insulation R-value	The contract of the contract o						
22									
23									
The answers to th	e questions bel	ow apply to the following duct systems:	SHPO-SHPI- K1	NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No				

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122192 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DSA APP. NO: 02-122192



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









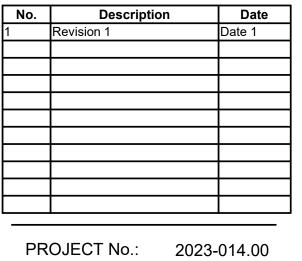
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL **MECHANICS SHOP RENOVATION**

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS



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design load served by the equipment shall have fixed loads.

³ Fan system allowance includes fan system base allowance. ⁴ Filter pressure loss can only be counted once per fan system.

⁵ Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. ⁴ See Standards Tables 120.1-A and 120.1-B.

⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

TE OF CALIFORNIA Iechanical Systems CALIFORNIA ENERGY COMMISS						
RTIFICATE OF COMPLIANCE		NRCC-MCH				
oject Name: Stagg HS Ag Shop Renovation	Report Page:	(Page 10 of 1				
	Date Prepared:	2/15/20				

			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?	No		
			Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes		
11	No	The scope of the project includes only duct system	s serving healthcare facilities			
12	Yes	Duct system provides conditioned air to an occupia	able space for a constant volume, single zone, space-conditioning system.			
13	Yes	The space conditioning system serves less than 5,0	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.			
14	No	The combined surface area of the ducts is more the	The combined 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		system that is documented to have been previously sealed as confirmed throug res in the Reference Nonresidential Appendix NA2.	th field verificati		
17		All Ductwork and plenums with pressure class ratin	igs shall be constructed to Seal Class A			
18		All ductwork is an extension of an existing duct sys	tem			
19		Ductwork serving individual dwelling unit	Ductwork serving individual dwelling unit			
20		< 25 ft of new or replacement space conditioning of	lucts installed			
21	R-8	Duct Insulation R-value				
22						
23						

M. COOLING TOWERS

STATE OF CALIFORNIA

QC INI %

This section does not apply to this project.

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Mechanical SystemsCALIFORNIA ENERGY COMMISSIONCERTIFICATE OF COMPLIANCENRCC-MCH-EProject Name:Stagg HS Ag Shop RenovationReport Page:(Page 13 of 13)Project Address:1621 W. Brookside RoadDate Prepared:2/15/2024

I certify that this Certificate of Compliance documentation is accurate and comple	te.		
Documentation Author Name: Aaron Wintersmith	Documentation Author Signature:		
Company: Capital Engineering Consultants Inc.	Signature Date: 02/15/2024		
Address: 11020 Sun Center Dr #100	CEA/ HERS Certification Identification (if applicable):		
City/State/Zip: Rancho Cordova CA 95670	Phone: 916-851-3500		
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 plans and specifications submitted to the enforcement agency for approval with this building permit agency.	is for the building design or system design identified on this Certificate of Compliance conform to the requirements consistent with the information provided on other applicable compliance documents, worksheets, calculations, polication. In the building permit(s) issued for the building, and made available to the perforcement agency for all applicable		
Kevin Stillman	Man Jawa		
Company: Capital Engineering Consultants, Inc	Date Signed: 2024-02-15		
Address: 11020 Sun Center Dr., Suite 100	License: M 33498		
City/State/Zip:	Phone: 916-851-3500		

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Mechanical SystemsCALIFORNIA ENERGY COMMISSIONCERTIFICATE OF COMPLIANCENRCC-MCH-EProject Name:Stagg HS Ag Shop RenovationReport Page:(Page 11 of 13)Date Prepared:2/15/2024

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

NRCI-MCH-01-E - Must be submitted for all buildings

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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/NRCI/

Form/Title

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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/

Form/Title

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.

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".

Supply Fan VFD Acceptance (if applicable) since testing activities overlap.

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".

NRCA-MCH-05-A - Air Economizer Controls

NRCA-MCH-07-A Supply Fan Variable Flow Controls

NRCA-MCH-11-A Automatic Demand Shed Controls

NRCA-MCH-12-A FDD for Packaged Direct Expansion Units

NRCA-MCH-18-A Energy Management Control Systems

AC-K1 15 tons; SHPI K1;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

There are no NRCV forms required for this project.

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Mechanical Systems

CERTIFICATE OF COMPLIANCE

Project Name: Stagg HS Ag Shop Renovation

Mandatory Measures Note Block

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

Compliance with Mandatory Measures documented through MCH

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

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Documentation Software: EnergyPro

CALIFORNIA ENERGY COMMISSION

Plan sheet or construction document location

M-Sheets

NRCC-MCH-E

2/15/2024

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-122192 INC:

REVIEWED FOR

SS FLS ACS D

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

No.	Description	Date
1	Revision 1	Date 1
·		

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

T24 DOCUMENTATION

M7.2

PLUMBING GENERAL NOTES

- 1. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLING PIPING AND ASSOCIATED ITEMS.
 COORDINATE LOCATION OF PIPING WITH OTHER TRADES ON THIS PROJECT.
- 4. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
- 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.
 SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
- 7. PROVIDE GAS SHUT-OFF VALVE, UNION AND DIRT LEG AT EACH GAS CONNECTION TO MECHANICAL EQUIPMENT.
 9. PRIOR TO ANY SOLENOID VALVE, QUICK CLOSING VALVE, ETC. PROVIDE AND INSTALL SHOCK ABSORBER OF REQUIRED
- 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 "P" 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/S1.0 EXPANSION ANCHORS, HILTI, KWIK BOLT KB TZ2 3/8" DIA. WITH 2-1/2" MIN. EMBEDMENT. ANCHORS SHALL BE TESTED PER IR 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. 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:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.

 TEMPORARY, MOVARILE OR MORILE EQUIPMENT.

 TO THE PROPERTY OF THE
- 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.
- 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 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
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

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

P5.3 PLUMBING DETAILS

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

	PLUMBIN	G 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
<u>_</u>		BRANCH - TOP CONNECTION
_		BRANCH - BOTTOM CONNECTION
or —		BRANCH - SIDE CONNECTION
── ₩──	BFV	BUTTERFLY VALVE
	CBV	CALIBRATED BALANCE VALVE
 j	COP	CAP ON END OF PIPE
	CKV	CHECK VALVE
	СР	CIRCULATING PUMP
	CW	COLD WATER
	CWD	COLD WATER DROP
	CWR	COLD WATER RISE
——A——	Α	COMPRESSED AIR
\longrightarrow	CR	CONCENTRIC REDUCER
CD	CD	CONDENSATE DRAIN LINE
<u> </u>	СО	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
Ø	СО	CLEANOUT
<u></u>	FD	FLOOR DRAIN
	FS	FLOOR SINK
		FLOW IN DIRECTION OF ARROW
── ───	FLV	FLOW LIMITING VALVE
FV,FT		FLUSH VALVE , FLUSH TANK
(FA) , (TA)		FROM ABOVE , TO ABOVE
(FB) , (TB)		FROM BELOW , TO BELOW
—— ▼	GCK	GAGE COCK
	GSCK , PC	GAS COCK , PLUG COCK
	GV	GATE VALVE
	GPM	GALLONS PER MINUTE
——————————————————————————————————————	GLV	GLOBE VALVE
Ø	CO	CLEANOUT
\circ	HD	HOPPER DRAIN , HUB DRAIN
<u> </u>	НВ	HOSENDABBR 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
		NOT TO SCALE
	(NTS)	
	AN	PIPE ANCHOR
		PIPE GUIDE
=======================================		PIPE IN SLEEVE
		PITCH DOWN IN DIRECTION OF FLOW
••	POC	POINT OF CONNECTION
——— P & TRV ———	P & TRV	PRESSURE & TEMPERATURE RELIEF VALVE PIPING
×	PRV	PRESSURE REDUCING VALVE
——PD——	PD	PUMP DISCHARGE LINE
RWL	RWL	RAINWATER LEADER
— —	WH	RECESSED BOX HOSE BIBB OR WALL HYDRANT
* -	RV or P&TRV	RELIEF VALVE OR PRESSURE
		& TEMPERATURE RELIEF VALVE
	RET	RETURN
	RE, IE	RIM ELEVATION , INVERT ELEVATION
	(R) , (D)	RISE , DROP
	(i\), (D)	
 ,		RISER DOWN (ELBOW)
 0		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
<u></u>	·	
	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)

REQUIRED FOR VALVE TYPE USED)

VENT, VENT RISER, VENT THRU ROOF

WATER HAMMER ARRESTER

VENT PIPING

WALL CLEANOUT

V, VR, VTR

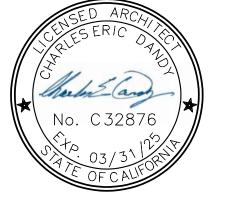


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Phone: (916) 365-9655

Sacramento, CA 95820









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

NOTES

PLUMBING

LEGEND &

P0.1

			PL	UMBING FIXTURE SPECIFI	ICATION & CONNECTION	SCHEDULE							
ADA	ADA SYMBOL FIXTURE FIXTURE FAUCET OR VALVE TRIM		REMARKS	VENT	W	ASTE	COLD	WATER	HOT V	VATER			
	01111202	11/21/21/2	MANUFACTURER AND MODEL No.	MANUFACTURER AND MODEL No.	MANUFACTURER AND MODEL No.		V	BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
0	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, SELF-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 (VVAVVP), 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	PROVIDE SEEPAGE PAN AND CLAMPING COLLAR.		COORDINATE & PROVIDE GRATES	2" 3"	2" 3"	2" 3"	-		-	-
			INCLUDE: JAY R. SMITH, WATTS & MIFAB.										
	НВ	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 CB6-04-000 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.									

GAS PRESSURE REGULATOR SCHEDULE						
UNIT	LOCATION	"MFR" MODEL NO.	MIN. CAPACITY (MBH)	INLET PRESSURE RANGE MAX/MIN	OUTLET PRESSURE	NOTES
GPR K1	ROOF	AMERICAN METER COMPANY SERIES 1813B	220	5 PSIG	7" WC	PROVIDE WITH HI AND LOW PRESSURE TEST PORTS

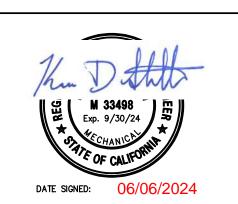


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1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

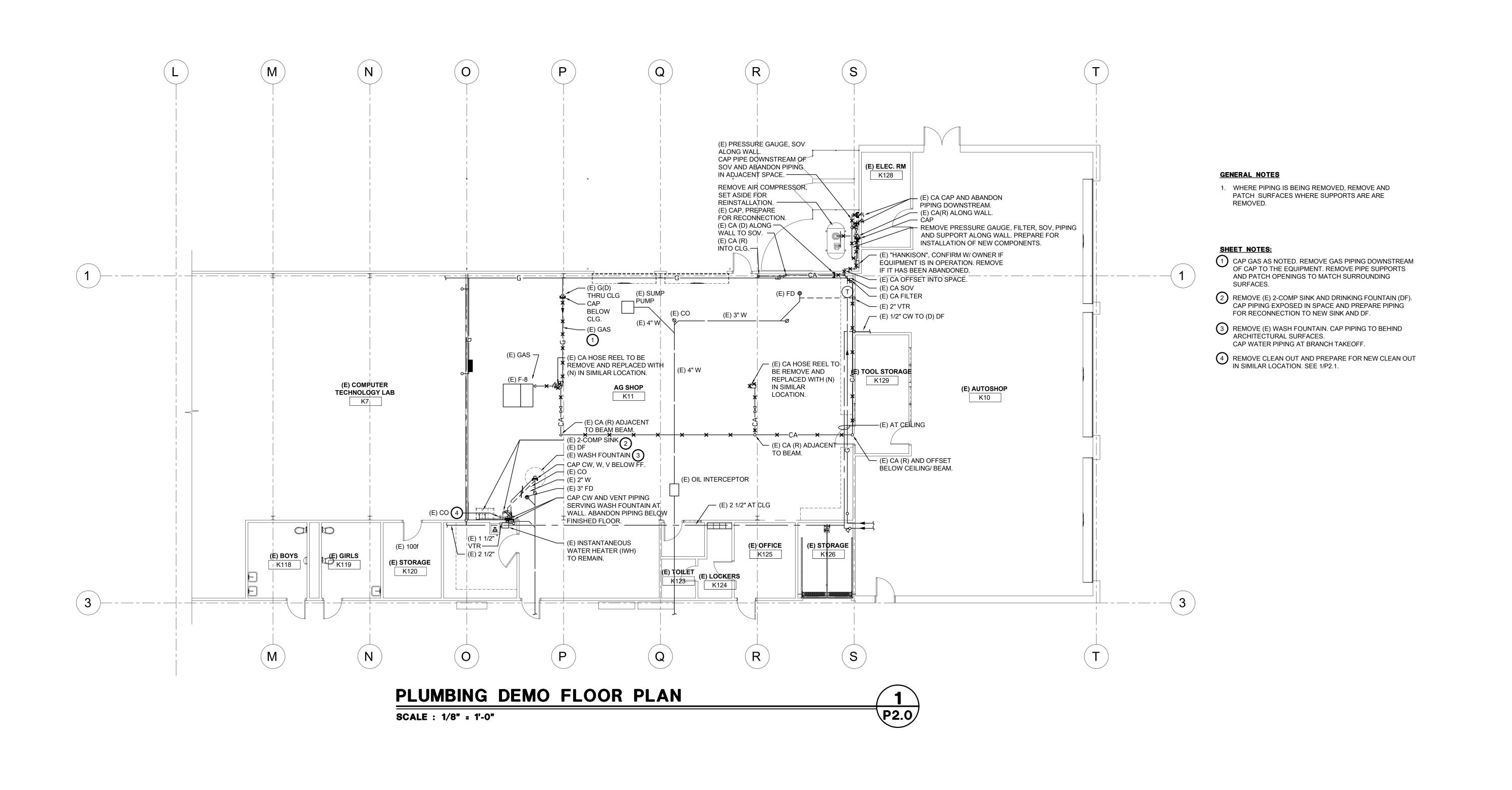
No.	Description	Date
1	Revision 1	Date 1

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

PLUMBING FIXTURE SPEC. & CONN. SCHEDULE

P0.2



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-122192 INC:

REVIEWED FOR

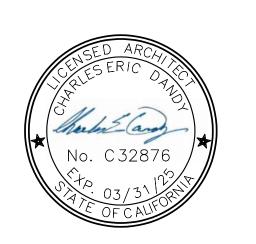
SS FLS ACS D

DATE: 06/27/2024

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STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

No. Description

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	1	Revision 1		Date 1
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	PR	OJECT No.:	2023-	014.00

CONSTRUCTION DOCUMENTS

KEYPLAN

WING-M

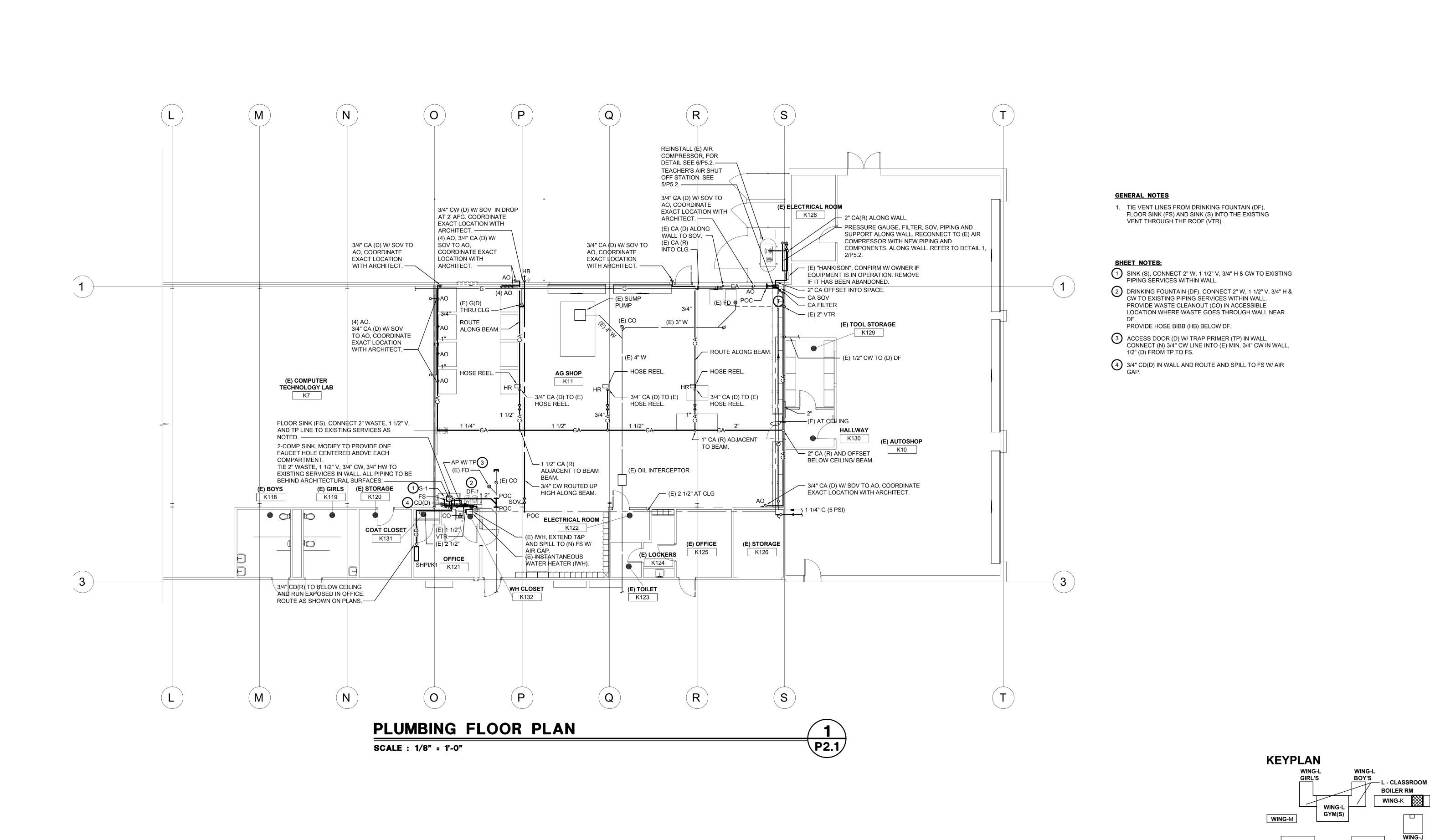
WING-L
BOY'S
L - CLASSROOM

BOILER RM
WING-K

PLUMBING DEMO FLOOR

PLAN

P2.0

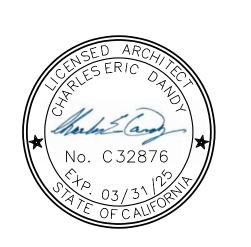


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STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP RENOVATION**

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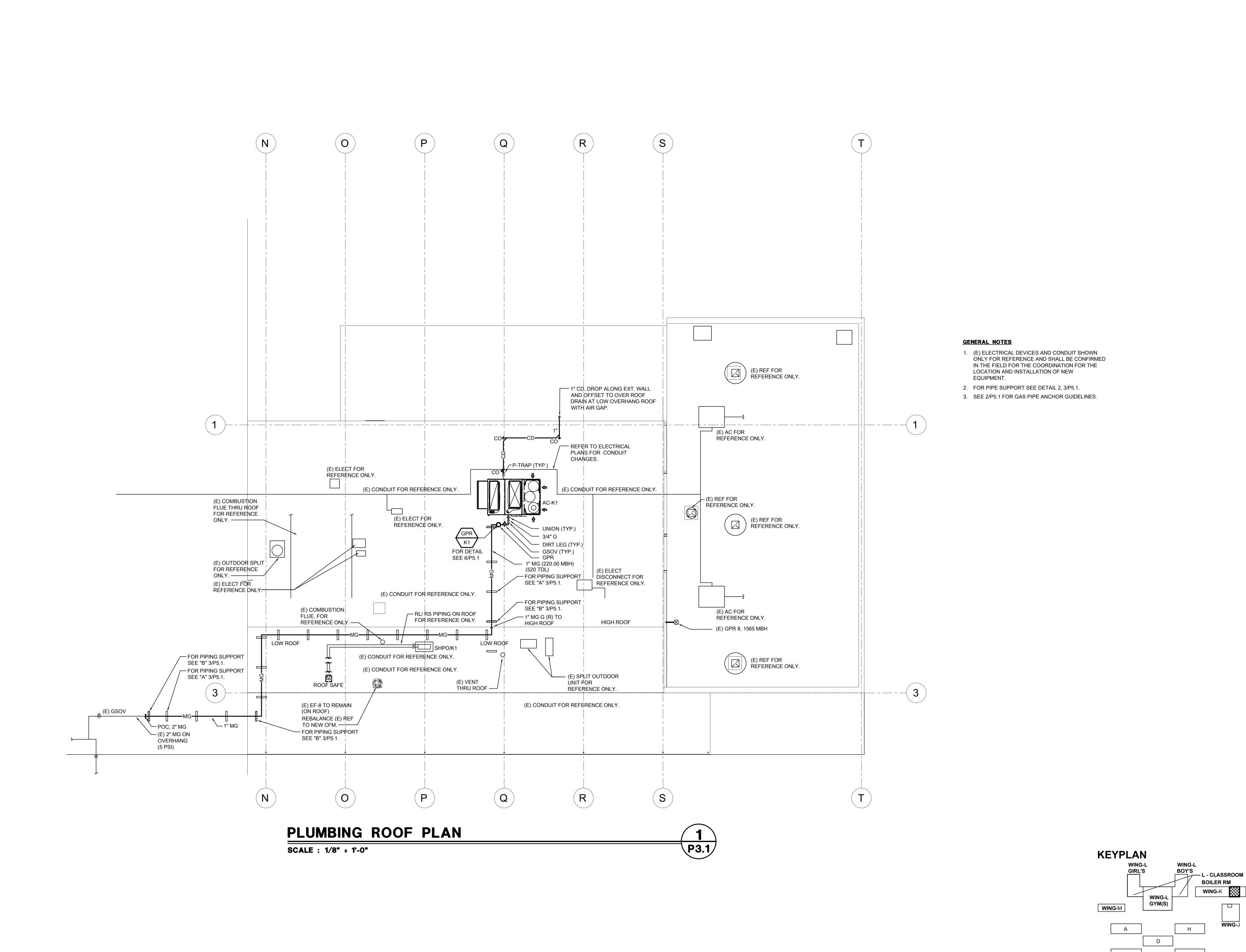
REVISIONS No. Description Date

1	Revision 1		Date 1
PR	OJECT No.:	2023-	014.00

CONSTRUCTION DOCUMENTS

PLUMBING FLOOR PLAN

P2.1

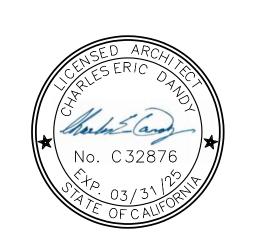


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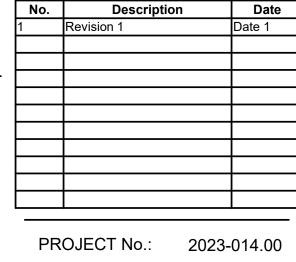
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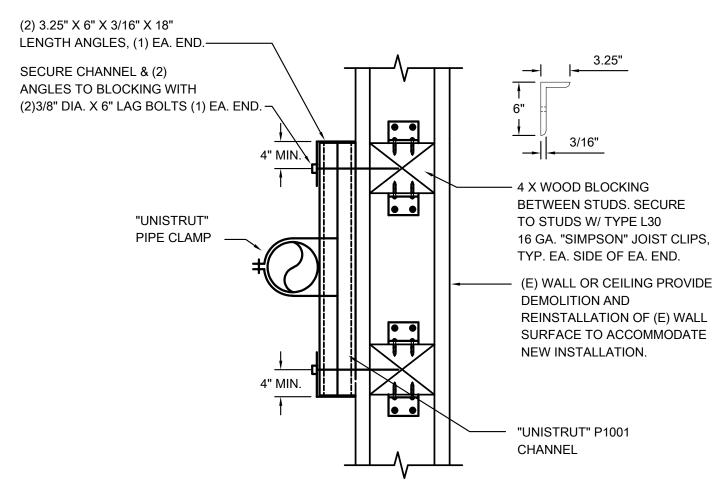
REVISIONS



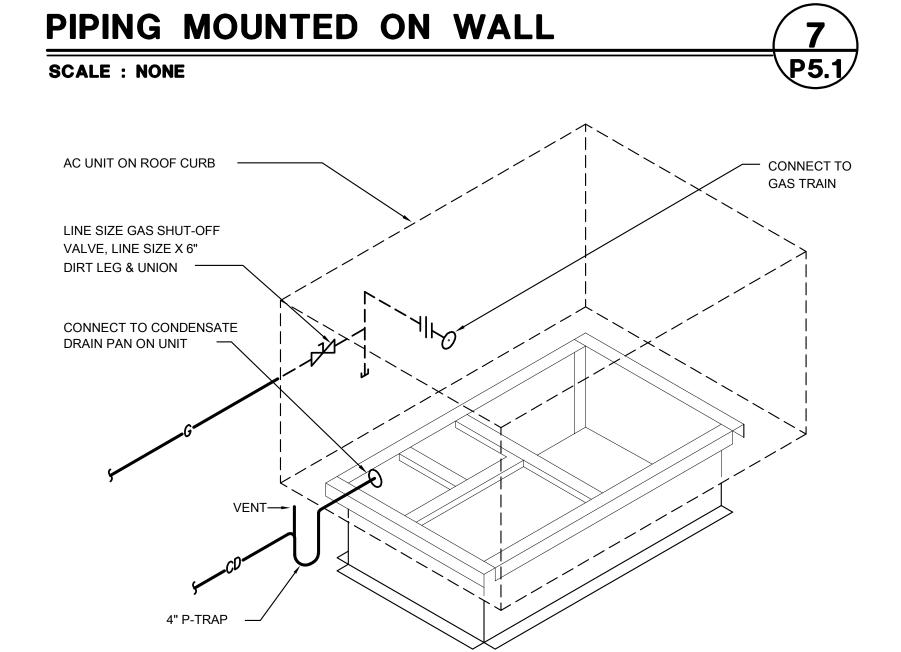
CONSTRUCTION DOCUMENTS

PLUMBING **ROOF PLAN**

P3.1



1. ALL CHANNELS AND FITTINGS SHALL BE ELECTRO-GALVANIZED. SPACE PIPE SUPPORTS ON GRADE AT 4' O.C. MIN. 2 SUPPORTS. 3. SEE PLANS FOR NUMBER OF PIPES ON EACH SUPPORT



AC UNIT PIPING

SCALE : NONE

INI %

	VERTICAL PIPI	NG 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 & AHJ.	6'	EACH FLOOR, NOT TO EXCEED 10'. SPACING OF HANGERS AND SUPPORTS FOR PIPING ASSEMBLED WITH MECH. JOINTS IN ACCORDANCE W/ STANDARDS & AHJ.	BASE AND EACH FLOOR WITH MID-STORY GUIDES.

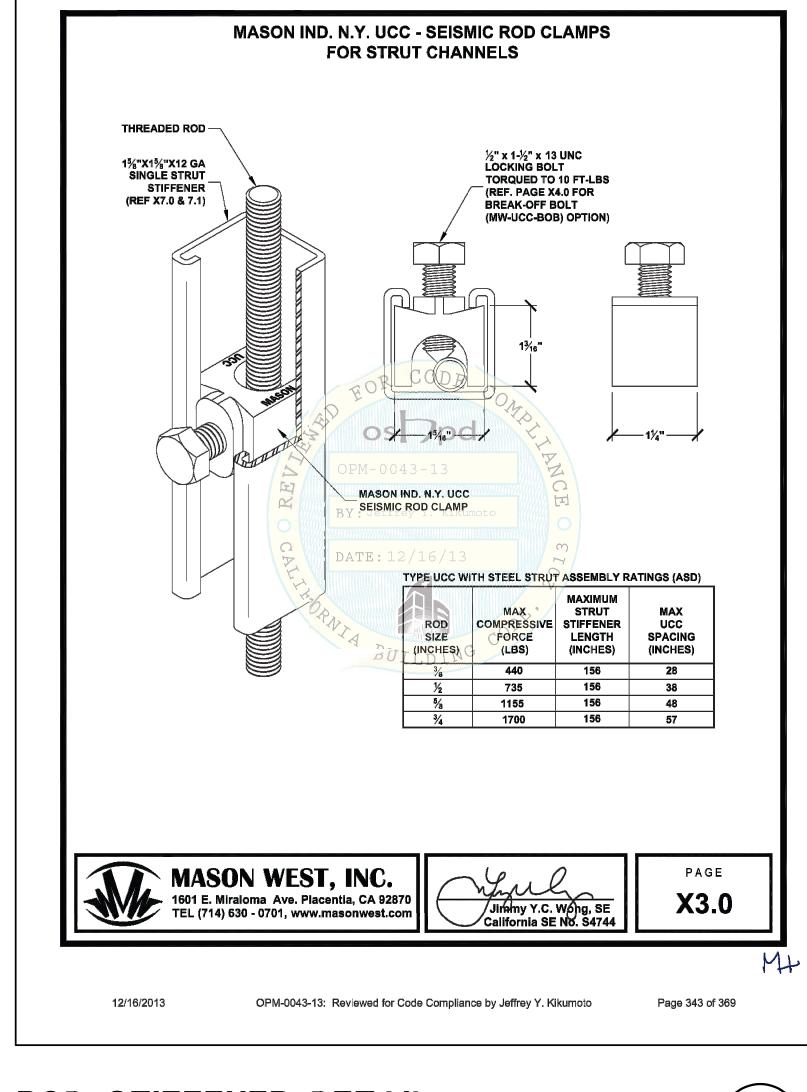
VERTICAL PIPING SUPPORT SPACING

SCALE : NONE

	HORIZON	TAL PIPING SUPPORT SP	ACING	
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 (10)

SCALE : NONE

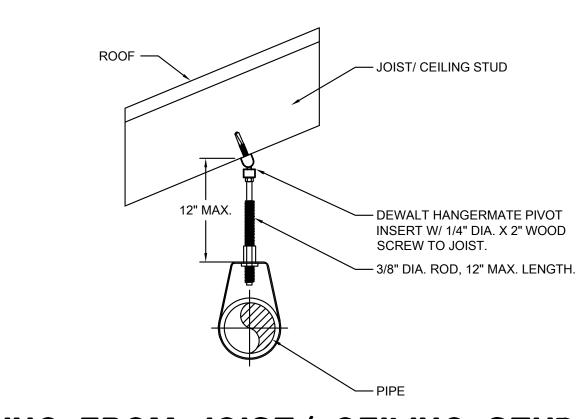




SCALE : NONE

P5.1

P5.1



PIPING FROM JOIST/ CEILING STUD

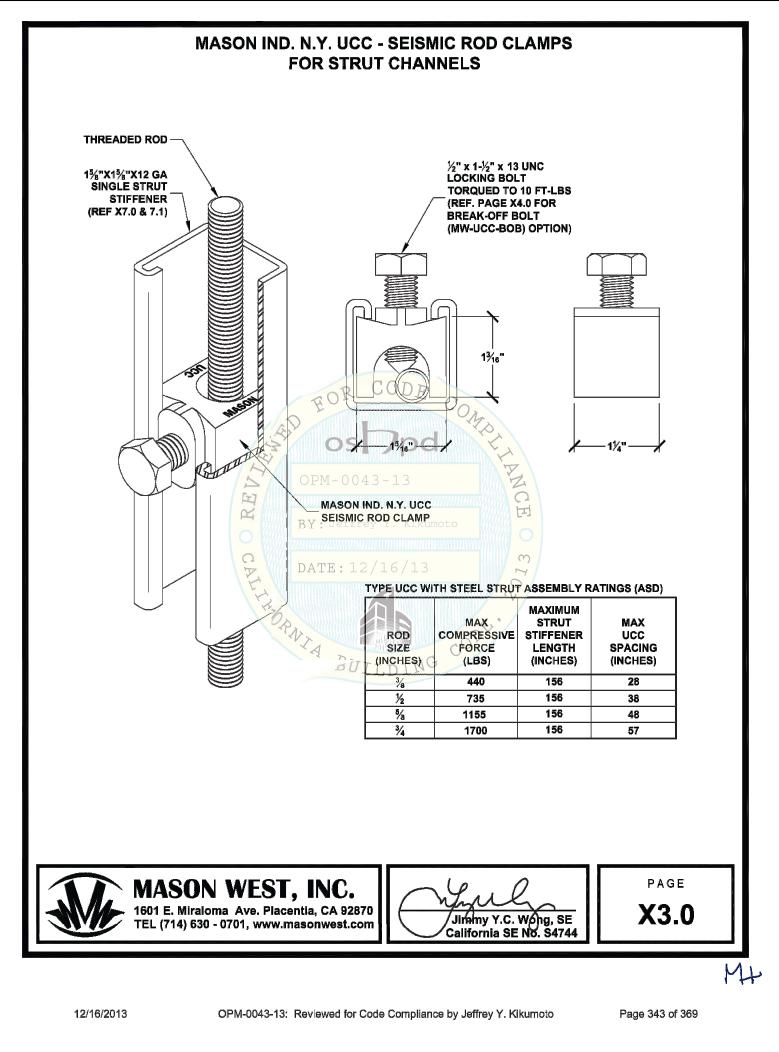
MEDIUM PRESSURE GAS SHUT OFF VALVE, SEE PLANS FOR SIZE. -— PIPE, SEE PLANS FOR SIZE PIPE CLAMP SECURE FOR PIPING SUPPORT FOR PIPING SUPPORT TO BLOCKING SIMILAR TO SEE "A" 3/P5.1.

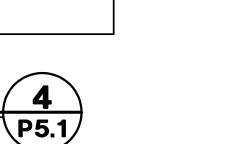
GAS PRESSURE

REGULATOR ON ROOF DETAIL

SCALE : NONE

SCALE : NONE





<u>(5)</u>

P5.1

6

P5.1

ROOFING.

SECURE BENT PLATE CLIP AT

CHANNEL WITH P2863 FLAT PLATE

WASHER & SPRING CHANNEL NUT.

FITTING SECURED W/ 3/8" DIA. BOLTS

STRUCTURAL BEAM,

BENT P CLIPS - 3/16"

SECURE 3/8" DIA PIN

LOOP CABLE OVER

U-BOLT CLIPS —

SHACKLE TO CLIP —

WIRE ROPE THIMBLE.

x 2-1/2"

SEE STRUCTURAL

DWGS.———



SECURE CHANNEL TO BEAM W/

— 3/16" DIA. AIRCRAFT

CABLE BRACE,

BEAM CLAMP DATA

RETAINING STRAP

SCALE: NONE

"UNISTRUT" P2786 BEAM CLAMP

TYP. OF 2 AT EA. END OF CHANNEL

NUT, & LOCKWASHER -

"UNISTRUT" P1001

STRUCTURE

Part No.

B3363-L

UPPER ATTACHMENT AT STRUCTURE

TYP. INTERMEDIATE PIPE SUPPORT, SEE

TYP. INTERMEDIATE FLOATING

TYP. PIPE ANCHOR, SEE

SUPPORT, SEE 3

CHANNEL BETWEEN

2. INTERMEDIATE FLOATING SUPPORTS SHALL BE SPACED BETWEEN INTERMEDIATE PIPE SUPPORTS WITH SPACING AS REQUIRED TO MEET THE MINIMUM PIPE SPACING REQUIREMENTS NOTED IN THE PIPING CHART BELOW.

3. INTERMEDIATE SUPPORTS AND INTERMEDIATE FLOATING SUPPORTS SHALL HAVE MOVEMENT OF THE PIPE. PIPE ANCHORS SHALL HAVE PIPE CLAMPS INSTALLED TIGHT AROUND PIPE TO PROVIDE SECURE ANCHORAGE.

- HANGER ROD

NOTE: PROVIDE BRACING AS NOTED ABOVE

AND PER 2022 CBC 1617A.1.25, EXCEPTION 2

FOR DUCTWORK OR 1617A.1.26, EXCEPTION 2

FOR PIPING, AS REQUIRED TO AVOID IMPACT

EXPANSION LOOP SIZE

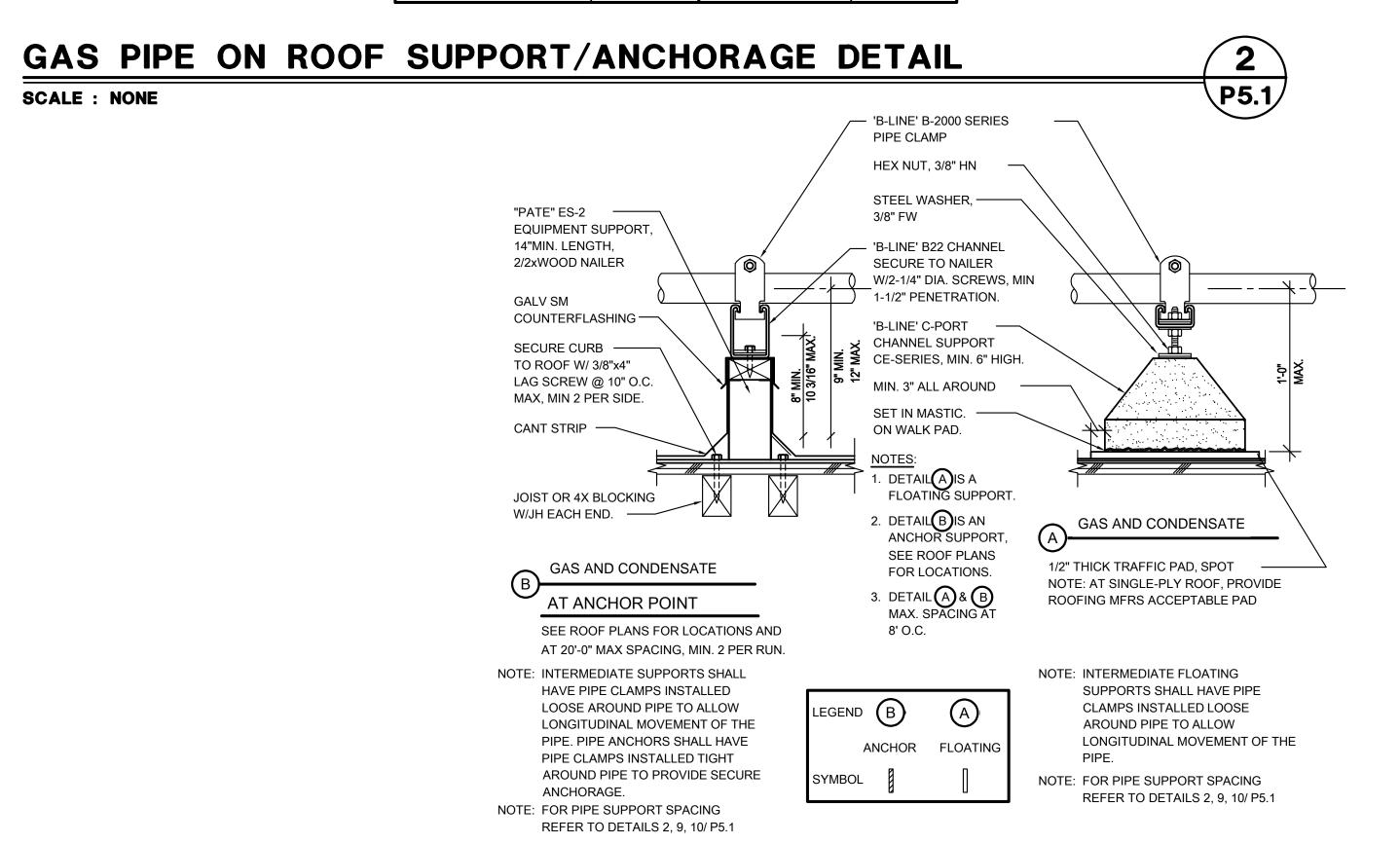
2 FEET

4 FEET

WITH ADJACENT DUCTS AND/OR MECHANICAL

4. REFER TO DETAILS 9, 10/P5.1 FOR ADDITIONAL PIPE SUPPORT REQUIREMENTS

NOMINAL SIZE OF STEEL PIPE, 2022 CPC NOMINAL SPACING OF TUBING SPACING OF TABLE 1210.2.4.1 SIZE OF PIPE **SUPPORTS** SMOOTH-WALL SUPPORTS SUPPORT OF PIPING (IN. O.D.) NFPA 54:7.2.5.2 3/4 OR 1 5/8 OR 3/4 TABLE 7.2.5.2 SUPPORT OF PIPING CHART 1/4 OR LARGER (HORZ.) 1 OR LARGER (HORIZ.) EVERY FLOOR 1 OR LARGER (VERT.) EVERY FLOOR 1 1/4 OR LARGER (VERT.) LEVEL LEVEL



"UNISTRUT" P2863 FLAT PLATE

FITTING SECURED W/ 3/8" DIA.

BOLTS, WASHER & SPRING

-2" x 2" x 1/4" ANGLE,

- "ELCEN" No. 207P

BRIDGE CLEVIS

SECURE ROD AT CHANNEL WITH

WITH WASHER & NUT. ————

SPRING CHANNEL NUT & SECURED

- 3/8"∅ SEISMIC BRACING @ 45°. 20 FT. O.C.,

FOR DUCTS 28" IN DIAMETER & LARGER

12" FROM SUPPORTING STRUCTURAL

AND IF DUCT IS SUSPENDED MORE THAN

P2863 FLAT PLATE FITTING,

BEAM CLAMP DATA

RETAINING STRAP

EXPANSION -

For Use With

351L-5/8" & 3/4"

33364-L B3036L-5/8" & 3/4"

3365-L B351L-7/8"

33036L-5/8" & 1/2"

SECURE TO BLOCKING

WITH 1/4"Ø x 3" LAG BOLT

6" = LBS | 8" = LBS | 10" = LBS | 12" = LBS

CHANNEL NUT.

PIPE ON ROOF MOUNTING DETAIL

SCALE : NONE SUPPORT PER CPC 1210.2.4.1 & 1210.2.4.2 AND NFPA 54:7.2.6.2, 7.2.6.3, 7.2.6.4

∖P5.1



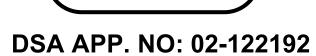
STRUCTURAL BEAM,

B3362 RETAINING STRAP. SEE BEAM

CLAMP DATA BELOW TYP.

SEE STRUCTURAL

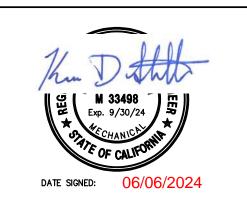
HANGER ROD





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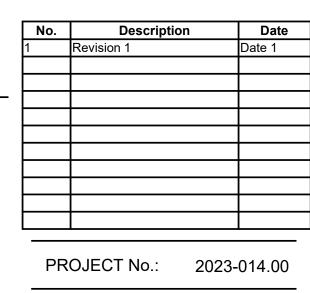
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT



1621 BROOKSIDE ROAD STOCKTON, CA 95207

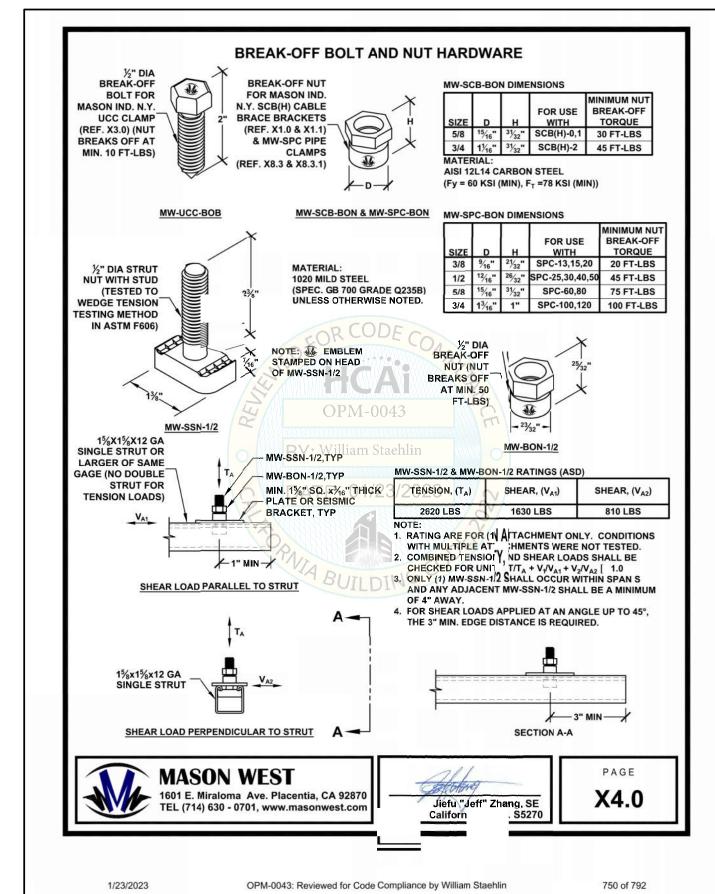
STOCKTON UNIFIED SCHOOL DISTRICT

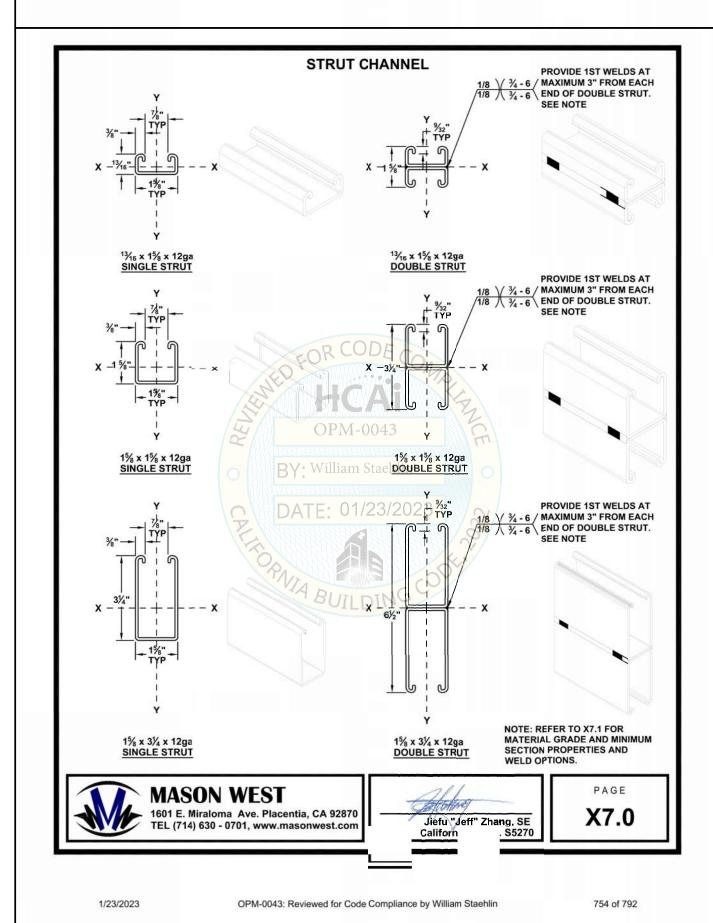
REVISIONS

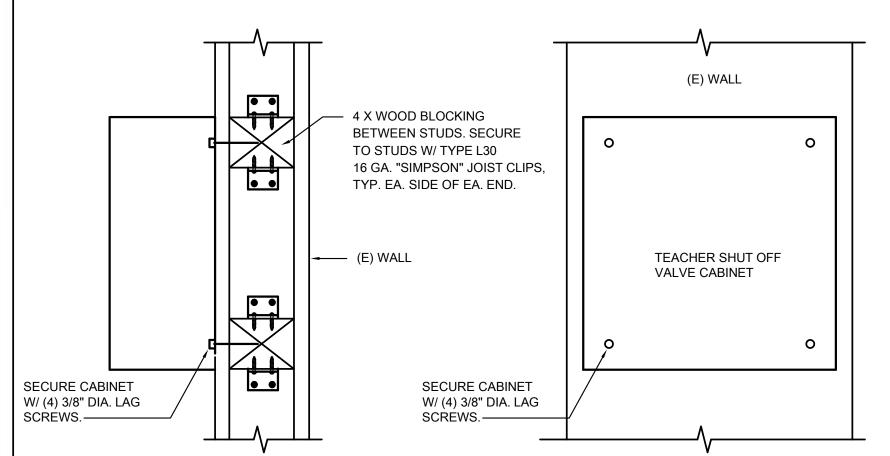


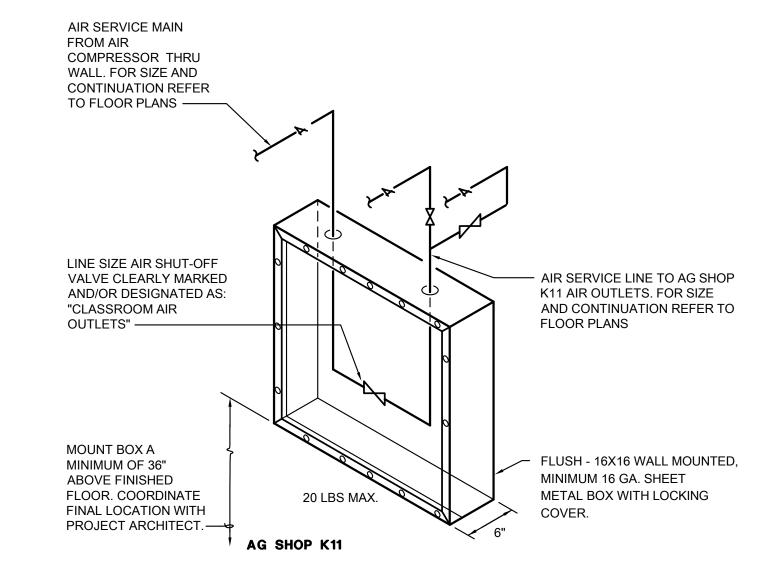
CONSTRUCTION DOCUMENTS

PLUMBING **DETAILS**







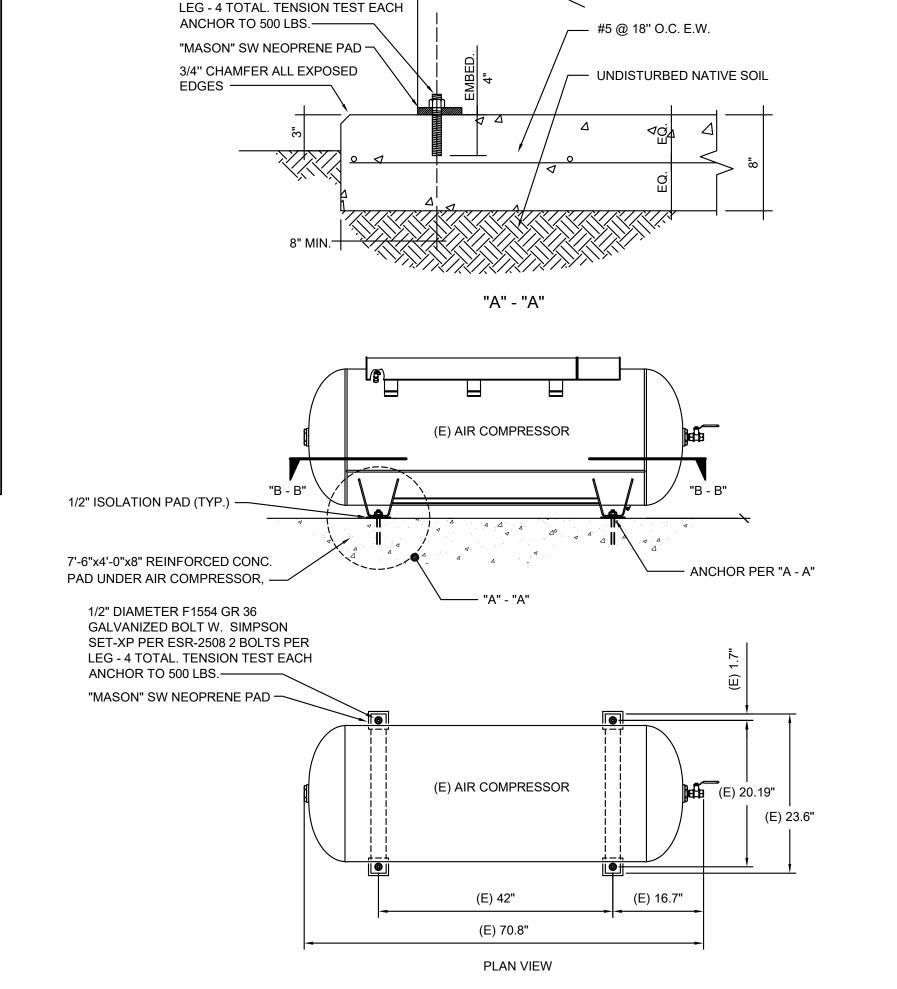




(E) AIR COMPRESSOR ———

1/2" DIAMETER F1554 GR 36 GALVANIZED BOLT W. SIMPSON

SET-XP PER ESR-2508 2 BOLTS PER

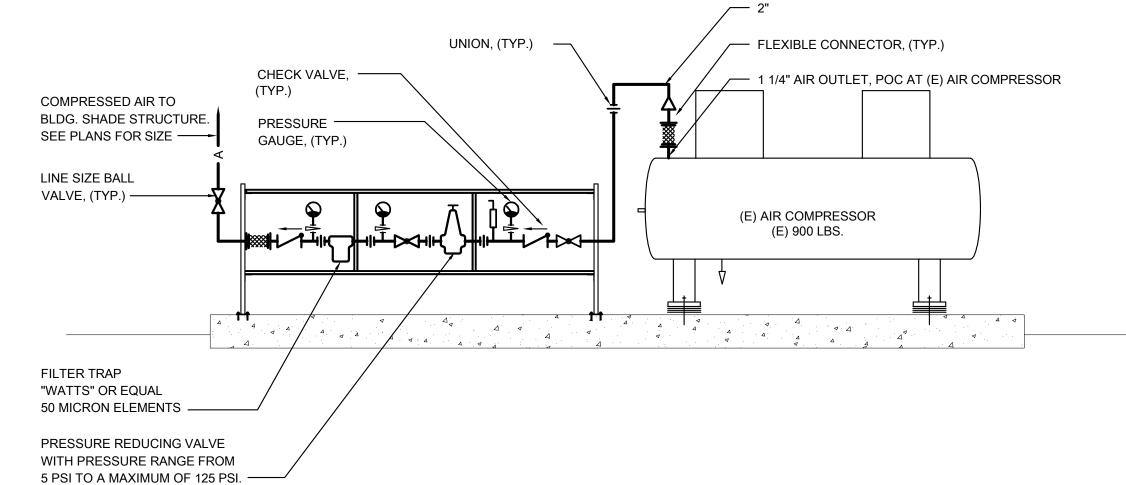


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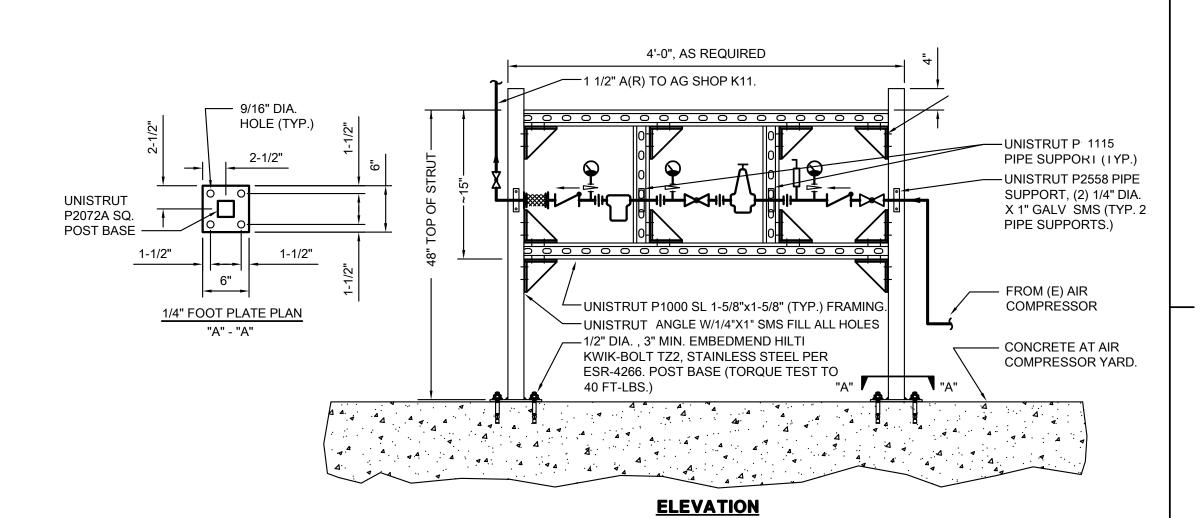
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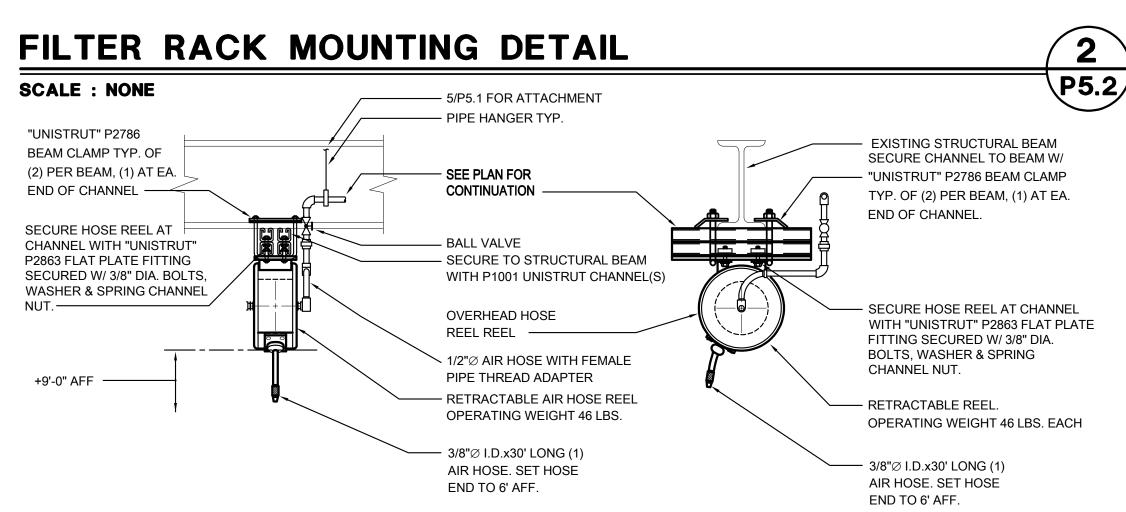
AIR COMPRESSOR ANCHORING

SCALE : NONE

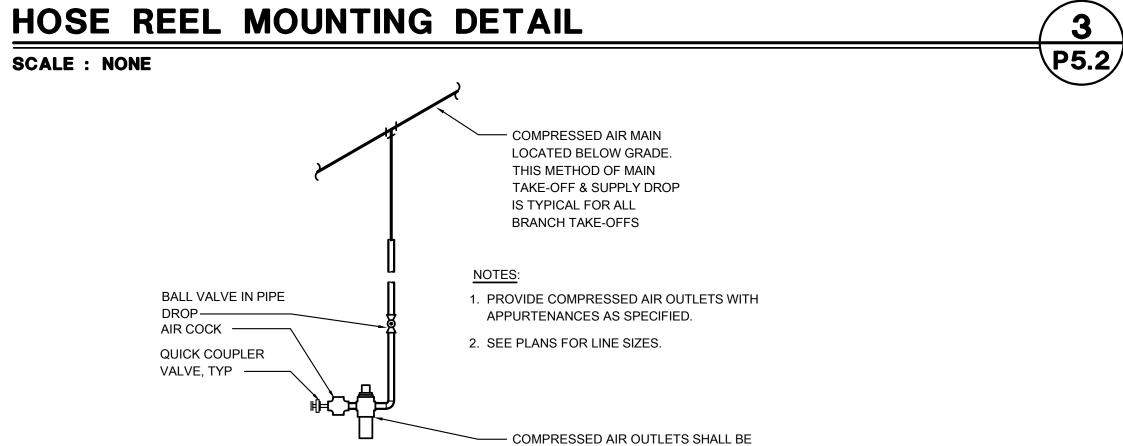












PROVIDED WITH A LINE SIZE

LOCATION WITH ARCHITECTURAL FEATURES. SEE PLANS FOR DROP

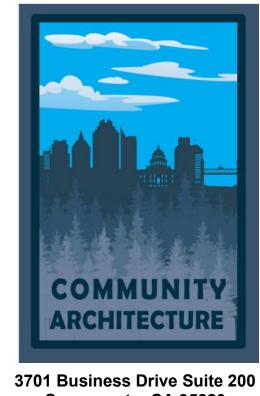
FILTER/REGULATOR & SOV. COORDINATE

SIDE ELEVATION

COMPRESSED AIR PIPING DETAIL AT WALL SCALE : NONE

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

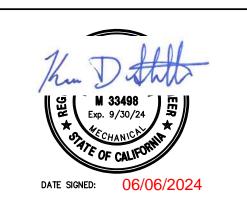
DSA APP. NO: 02-122192



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P5.2









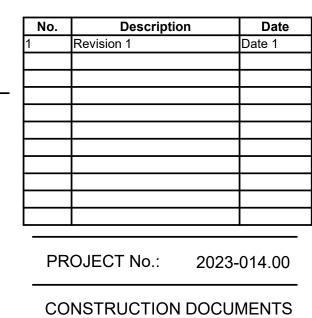
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL **MECHANICS SHOP RENOVATION**

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

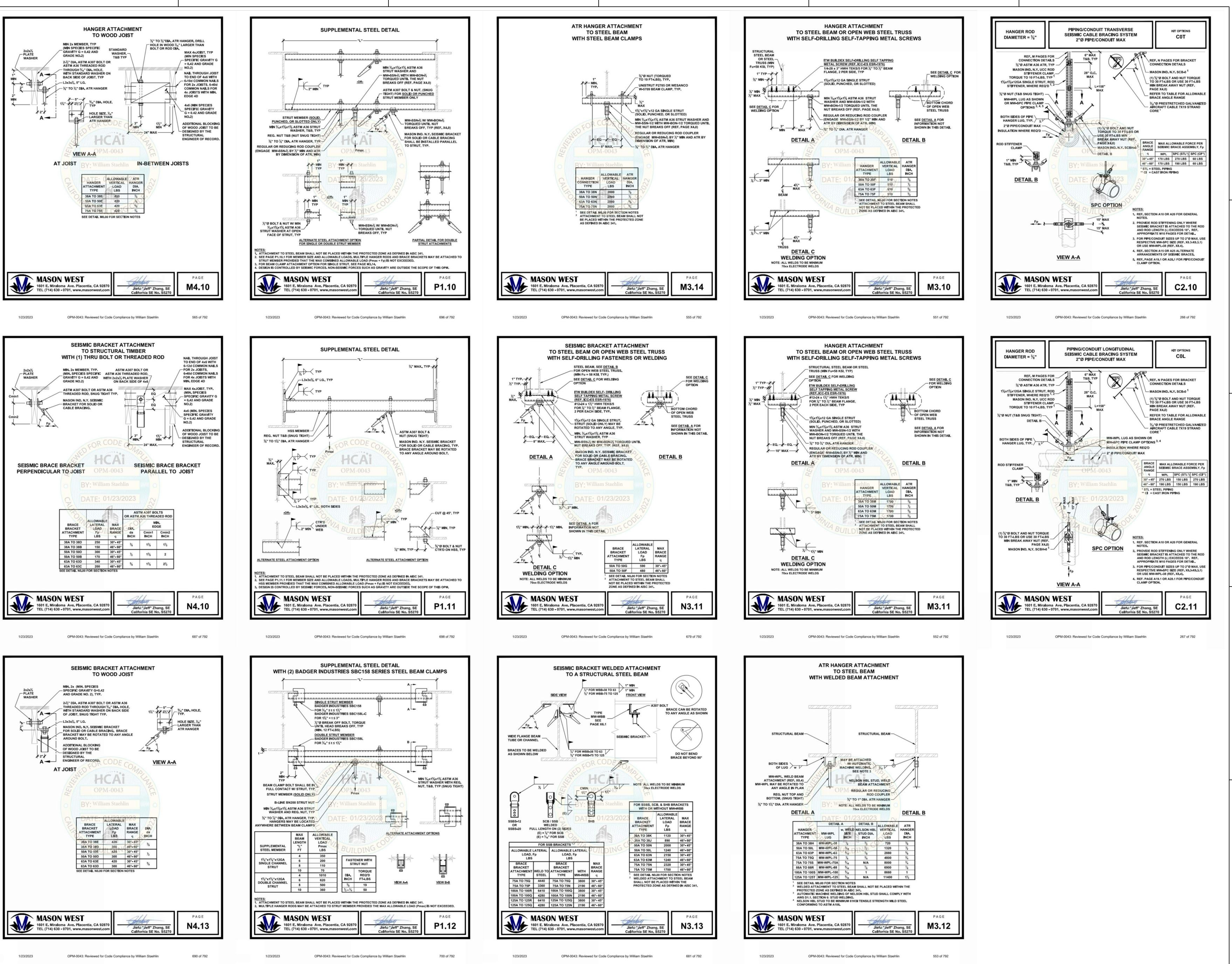
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PLUMBING **DETAILS**

P5.2

P5.2



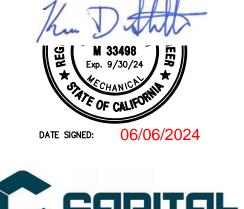
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55 S LINCOLN STREET

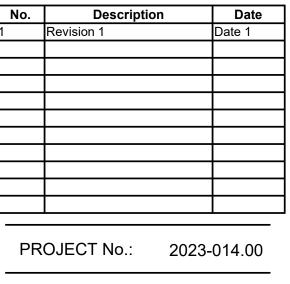
STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP RENOVATION**

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS



DETAILS

CONSTRUCTION DOCUMENTS

EI	ECTRICAL LEGEND	ELEC	TRICAL LEGEND cont'
SYMBOL/	DESCRIPTION	SYMBOL/	DESCRIPTION
ABBREVIATION A	AMPERES, AMBER	ABBREVIATION	FIRE ALARM
AC	ALTERNATING CURRENT, AIR CONDITIONER	FACP	
AFC	ABOVE FINISHED CEILING	RXP	FIRE ALARM CONTROL PANEL
AFF	ABOVE FINISHED FLOOR		SUSPENDED REMOTE POWER SUPPLY
AFG	ABOVE FINISHED GRADE	②	PHOTOELECTRIC SMOKE DETECTOR
AIC	AVAILABLE INTERRUPTING CAPACITY	②	COMBINATION SMOKE ALARM AND CARBON MONOXIDE
AWG BC	AMERICAN WIRE GAUGE	FS	DETECTOR, SINGLE STATION SPRINKLER FLOW SWITCH
С	BARE COPPER CONDUIT, CLOSE, CONTROL		
СВ	CIRCUIT BREAKER	PIV	SPRINKLER POST INDICATOR VALVE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	TS	SPRINKLER TAMPER SWITCH
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED	M	F.A ADDRESSABLE MONITOR MODULE
CLG	CEILING	C	FIRE ALARM CONTROL RELAY
COM CT	COMMUNICATION CURRENT TRANSFORMER	∑ 15cd	STROBE WITH CANDELA RATING
CU	COPPER		
DD	DROP DOWN RECEPTACLE (REFER TO 4/E0.3)		HORN/STROBE WITH CANDELA RATING
DN	DOWN	F WD	HORN
EF	EXHAUST FAN	▽ WP	EXTERIOR 120V SPRINKLER HORN/STROBE
F	FUSE		GENERAL
FACP FBO	FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS		NEW WORK
G, GND	GROUND		EQUIPMENT IDENTIFICATION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	LOCATION	EQUIPMENT IDENTIFICATION
GFI	GROUND FAULT INTERRUPTER	(1)	KEYED NOTE
GRC	GALVANIZED RIGID STEEL CONDUIT	<u>LIGHTING</u>	
KVA KW	KILOVOLT AMPERES KILOWATT		CEILING FAN
LED	LIGHT EMITTING DIODE	$\overline{\otimes}$	EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES
MDB	MAIN DISTRIBUTION BOARD	ightharpoonup	DIRECTION IF SHOWN EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES
MDP	MAIN DISTRIBUTION PANEL		DIRECTION IF SHOWN
MSB	MAIN SWITCHBOARD		AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE
MT, MTD	MOUNT, MOUNTED	0	SURFACE OR PENDANT MOUNTED LUMINAIRE
MT N/A	EMPTY CONDUIT WITH NYLON PULL CORD NOT APPLICABLE	•	SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL
N	NEUTRAL		EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
NEC	NATIONAL ELECTRIC CODE		PENDENT
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	오	WALL MOUNTED LUMINAIRE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED		
OFOI OS	OWNER FURNISHED, OWNER INSTALLED OCCUPANCY SENSOR	+	BOLLARD
PH	PHASE		<u>MISCELLANEOUS</u>
PNL	PANEL	#10 	
REF	REFERENCE	B-27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12
REQD	REQUIRED		AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK
S	SWITCH		MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE)
SIM TELE	SIMILAR TELEPHONE		CONDUCTOR.
ттв	TELEPHONE TERMINAL BOARD		BRANCH PANEL
TYP	TYPICAL		CIRCUIT BREAKER
UL	UNDERWRITERS LABORATORIES	→	CURRENT TRANSFORMER
UON	UNLESS OTHERWISE NOTED	M	DIGITAL TYPE METER WITH VOLTMETER, AMMETER, KW
V W/	VOLTS, VOLTAGE WITH		METER, KVA METER, KVAR METER, AND %THD METER EQUIPMENT CONNECTION ITEM. REFER TO SCHEDULE
w	WIRE, WHITE		
WP	WEATHERPROOF		FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
XFMR	TRANSFORMER		FLUSH WALL MOUNTED BRANCH PANEL
	CONNECTIONS / EQUIPMENT		GROUND ROD
-	HEAVY DUTY FUSED DISCONNECT SWITCH	←	GROUNDING POINT
J OR J	JUNCTION BOX	\	LANDING LUG
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT		MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
$\underline{\mathbb{Q}}$	WALL-MOUNTED JUNCTION BOX	₹ M	METER WITH CONNECTION
다	NON-FUSED DISCONNECT SWITCH		SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
Т	TRANSFORMER	UT	UTILITY TRANSFORMER PAD/VAULT
M	DOORBELL - NUTONE #LA11WH +7'-6"		WALL MOUNTING BRACKET
亨	DOORBELL PUSH BUTTON		WATER PIPE GROUND CONNECTION
	ENCLOSED CIRCUIT BREAKER		

	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

ELECTRICAL LEGEND cont'd

YMBOL/	DESCRIPTION
REVIATION	DECOMIT HON
	RACEWAYS
	CONDUIT CONCEALED IN WALL OR CEILING SPACE
	CONDUIT ROUTED BELOW FLOOR / GRADE
cc-	CATV ROUTED BELOW FLOOR / GRADE
— — т— — т—	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 ~~~~~

SWITCHES AND RECEPTACLES

TELEPHONE BACKBOARD

DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER B = CLOCK HANGER C = FLUSH CEILING MOUNTED

DD = DROP DOWN RECEPTACLE E = EMERGENCY F = ARC 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 WIRED

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 DEVICE OUTLETS SHALL BE 4 = FOUR-WAY SWITCH NO MORE THAN +48" AFF TO a THRU z (LOWERCASE) = LUMINAIRE CONTROL TOP OF BOX NOR LESS DESIGNATION THAN +15"AFF TO BOTTOM

F = FAN SPEED CONTROL OF BOX PER CBC 11B-308.1.2 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

? = DESIGNER DEFINED SWITCH MANUAL DIMMER WITH ON/OFF OVERRIDE WALL MOUNTED DUAL TECH OCCUPANCY SENSOR WITH DIMMER AND MANUAL ON/OFF OVERRIDE

V = LOW VOLTAGE SWITCH

CEILING MOUNTED OCCUPANCY SENSOR (SELF CONTAINED) CEILING MOUNTED DAYLIGHTING SENSOR

DUPLEX RECEPTACLE, FLUSH FLOOR

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.
- 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
- 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. 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.
- 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.

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.

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.
- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION.
- COORDINATE WITH GENERAL CONSTRUCTION.

DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED

- 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
- 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.
- 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
- DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR
- 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).
- FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

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 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 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE 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., HCALOPM 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.

E6.1

MP□ MD□ PP□ E□ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # ___ AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS

SHEET INDEX

- ELECTRICAL COVER SHEET 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 E4.0 SIGNAL DEMO FLOOR PLAN
- E4.1 SIGNAL FLOOR PLAN E5.0 FIRE ALARM DEMO FLOOR PLAN E5.1 FIRE ALARM FLOOR PLAN FIRE ALARM GENERAL NOTES AND DETAILS
 - TITLE 24 LTO FORMS TITLE 24 LTI FORMS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC 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

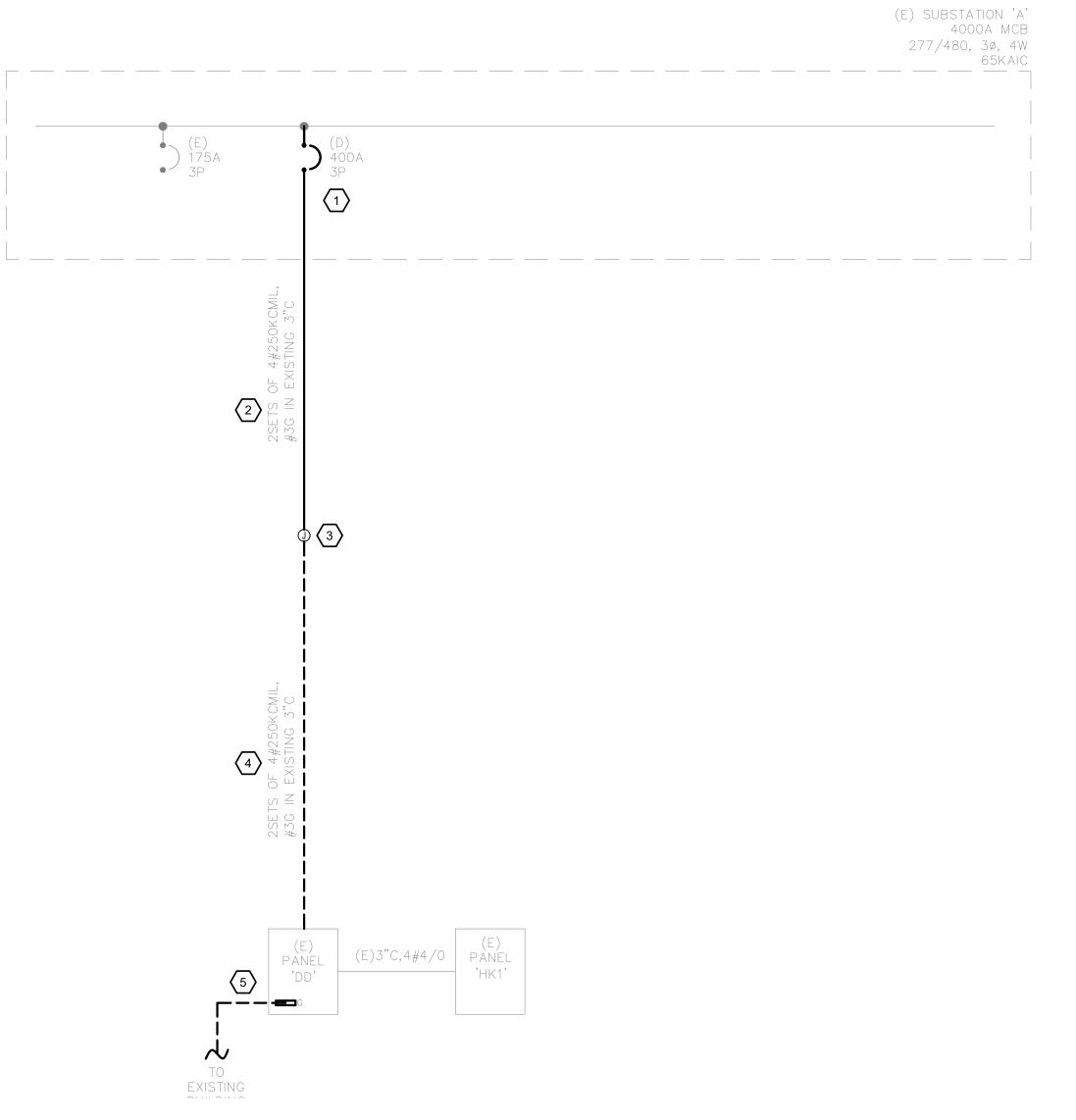
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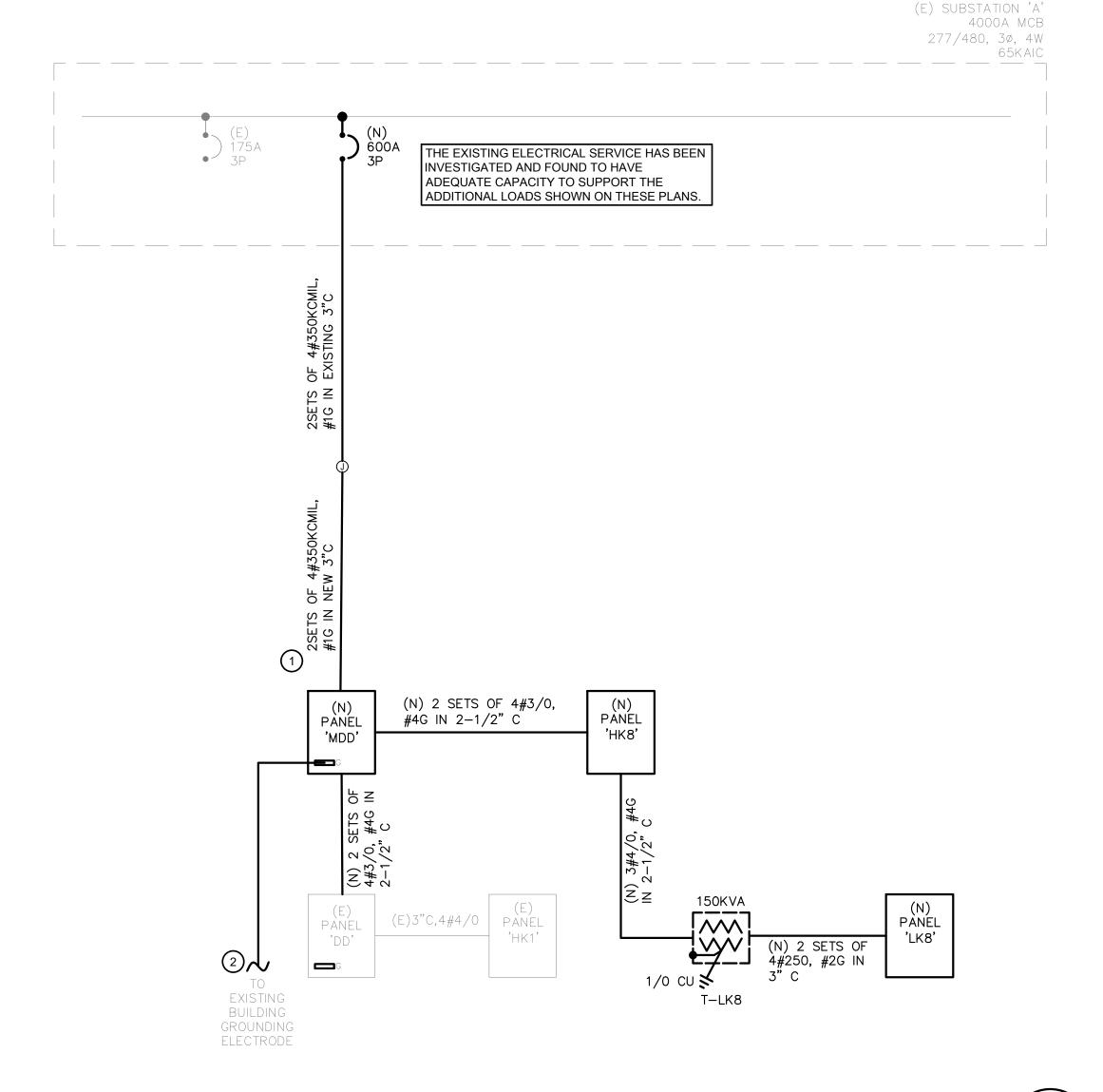
NO.	Description	on Date
1	Revision 1	Date 1
		0000 044 00
PF	ROJECT No.:	2023-014.00

CONSTRUCTION DOCUMENTS

ELECTRICAL

COVER SHEET





DEMOLITION ONE-LINE DIAGRAM

SCALE : NTS

2 E0.2

5 = 3 #10 #10G - 3/4"C

RENOVATION ONE-LINE DIAGRAM
SCALE: NTS



DESIGNATION	FEEDER	POLES		LOAD, VA		С	Р	С		LOAD, VA		POLES	FEEDER	DESIGNATION	
	NO.	& AMPS	LTG.	RECPT.	OTHER	K	Н	K	LTG.	RECPT.	OTHER	& AMPS	NO.		
VELDING MACHINE 120V	3	1/30		2952		1	Α	2		360		1/20	1	RECEPTACLES	
WELDING MACHINE 208V	4	2/40		3608.8		3	В	4		360		1/20	1	RECEPTACLES	
		80927		3608.8		5	С	6		360		1/20	1	RECEPTACLES	
WELDING MACHINE 120V	3	1/30		2952		7	A	8		360		1/20	1	RECEPTACLES	
WELDING MACHINE 208V	4	2/40		3608.8 3608.8		9	В	10		360 360		1/20	1	RECEPTACLES RECEPTACLES	
WELDING MACHINE 120V	3	1/30		2952	,	13	A	14		2500					
WELDING MACHINE 208V	4	2/40		3608.8		15	В	16		2500		2/30	3	SPECIAL OUTLET	
				3608.8		17	С	18		2500		2/30	1	SPECIAL OUTLET/DUST COLLECTOR	
WELDING MACHINE 120V	3	1/30		2952		19	A	20		2500		0000000	67		
WELDING MACHINE 208V	4	2/40		3608.8 3608.8		21	В	22		2500 2500		2/30	3	SPECIAL OUTLET	
WELDING MACHINE 120V	3	1/30		2952		25	A	26		2500		2/20	2	SDECIAL OLD ET	
WELDING MACHINE 208V	4	2/40		3608.8		27	В	28		2500		2/30	3	SPECIAL OUTLET	
VVEEDING WACHINE 200V		2/40		3608.8		29	С	30		2500		2/30	3	SPECIAL OUTLET	
WELDING MACHINE 120V	3	1/30		2952		31	Α	32		2500					
WELDING MACHINE 208V	4	2/40		3608.8 3608.8		33 35	В	34 36		2500 2500		2/30	3	SPECIAL OUTLET/PLASMA CUTTER	
WELDING MACHINE 120V	3	1/30		2952		37	A	38		2500		-	200	Microsofted Contact Co	
				3608.8		39	В	40		2500		2/30	3	SPECIAL OUTLET	
WELDING MACHINE 208V	4	2/40		3608.8		41	С	42		360		1/20		RECEPTACLES	
ECTION SUB-TOTALS			0	71187.2	0				0	37520	0			SECTION SUB-TOTAL	
	T						CTIO						6		
057 (50		POLES	1.70	LOAD, VA	OT ITO	C	P	C	1.70	LOAD, VA	OT ITS	POLES	FFFFF	0557/50	
SERVES	FEEDER	& AMPS	LTG.	RECPT.	OTHER	K.	H.	K.	LTG.	RECPT.	OTHER	& AMPS	FEEDER	SERVES	
WELDING MACHINE 120V	3	1/30		2952		43	A	44		2500		2/30	3	SPECIAL OUTLET	
WELDING MACHINE 208V	4	2/40		3608.8	,	45	В	46		2500					
				3608.8	500	47	C	48	-	2500		2/30	3	SPECIAL OUTLET	
REF-K1	2	3/20			500	49	A	50		2500		4/00	4	DECERTA CLES	
NEI -KI		0/20			500	51	В	52 54	-	180		1/20	1	RECEPTACLES FIRE ALARM PANEL	
					500	55	A	56		2500		1/20		PINE ALARWI FAINEL	
REF-K2	2	3/20			500	57	В	58		2500		2/30	3	SPECIAL OUTLET	
	-	1			500	59	С	60	_	2000	500	1/20	1	CONDENSATE PUMP	
OAF-K1	1	7		=	500	61	A	62		360	500	1/20	1	RECEPTACLES	
ASTRONOMIC TIME SWITCH	1	1/20		150	300	63	В	64		360		1/20	1	RECEPTACLES	
				100	1600	65	С	66		360		1/20	1	RECEPTACLES	
SHPO-K1	1	2/15			1600	67	A	68	+	360		1/20	1	RECEPTACLES	
				2500	1000	69	В	70		360		1/20	1	RECEPTACLES	
SPECIAL OUTLET	3	2/30		2500		71	С	72		360		1/20	1	RECEPTACLES	
DRINKING FOUNTAIN	1	1/20		2000	1200	73	A	74	44	720	-	1/20	1	RECEPTACLES	
MOTORIZED DAMPER	1	1/20	<u> </u>		500	75	В	76	-	360		1/20	1	RECEPTACLES	
SPARE	1	1/20		-	300	77	С	78		2500		1/20		TEAL TAOLES	
SPARE		1/20			,	79	A	80	_	2500		3/30	5	SPECIAL OUTLET/IRONWORKER	
SPARE	+	1/20				81	В	82	4	2500		5/55	J	- LOVIE COLLETINOTHYOUGH	
SPARE		1/20				83	С	84	-	2000		1/20		SPARE	
ECTION SUB-TOTALS	L	1/20	0	15319.6	8400	03		04	0	26920	500	1/20		SECTION SUB-TOTAL	
				ne -		•			70	•					
CATEGORY		CONN. LOA	D	DESIGN LO	AD				MOUNTING	:	SURFACE			REMARKS:	
		10.14	ANIDO	D% /	10.14	A 8 400			VOLTO:		100/000			** - PROVIDE RED BREAKER WITH	
LICE TIME.		KVA	AMPS	DIV.	KVA	AMP	5	-	VOLTS:	NE.	120/208			LOCK-ON CLIP	
LIGHTING:		0.0	0.0	1.25	77.5 C C C C C C C C C C C C C C C C C C C	0.0	_		PHASE/WIF	(0000)	3/4				
RECEPTA CLE:		150.9	419.5	0.53		223.			MAINS SIZE		500 AMPS				
MOTORS:		8.9	24.7		8.9	24.7			MAINS TYP		MCB		02**0	FEEDER NO.:	
SPECIAL LOADS:		0.0	0.0		0.0	0.0			BUSS TY P	7400	COPPER		17.50	2 #12, #12G - 1/2"C	
ELECTRIC HEATING:		0.0	0.0	1.00	0.0	0.0			BRKR TY P	3:	BOLT-IN		2 =	3 #12, #12G - 1/2"C	
WATER HEATING:		0.0	0.0	1.00	0.0	0.0			A.I.C. (RMS	5):	10,000		3 =	2 #10 #10G - 3/4"C	
		0.0													

DESIGNATION FEED		POLES	LOAD, VA			С	Р	С	LOAD. VA		POLES	FEEDER	DESIGNATION	
	NO.	& AMPS	LTG.	RECPT.	OTHER	K	Н	K	LTG.	RECPT.	OTHER	& AMPS	NO.	
					48000	1	Α	2			75146			
(E)PANEL 'DD'		3/400			48000	3	В	4			75250.4	3/400		PANEL 'HK8'
					48000	5	С	6			73370.4			
SPARE		1/20				7	Α	8		1.		1/20		SPARE
SPARE		1/20				9	В	10		1		1/20		SPA RE
SPARE		1/20				11	С	12				1/20		SPARE
SPACE						13	Α	14		31				SPACE
SPACE						15	В	16		T.				SPACE
SPACE						17	O	18						SPACE
SECTION SUB-TOTALS			0	0	144000				0	0	223766.8			SECTION SUB-TOTALS
				I				1		0	I		ľ	
CATEGORY		CONN. LOA	200000000000000000000000000000000000000	DESIGN LO	50000000	4000			MOUNTING:	i i	SURFACE			REMARKS:
		KVA	AMPS	DIV.	KVA	AMP	3		VOLTS:		277/480			
LIGHTING:		3.2	3.9	1.25	4.0	4.8			PHASE/WR		3/4		8	
RECEPTA CLE:		171.7	206.8	0.53		109.	_		MAINS SIZE	-	600 AMPS		S	
MOTORS:		48.8	58.8	1.00	48.8	58.8	_		MAINS TY P	-	MCB		100	FEEDER NO.:
SPECIAL LOADS:		144.0	173.4	1.00	144.0	173.	4		BUSS TYPE		COPPER		3	2 #12, #12G - 1/2"C
ELECTRIC HEATING:		0.0	0.0	1.00	0.0	0.0					BOLT-IN		2 =	2 #10, #10G - 3/4"C
WATER HEATING:		0.0	0.0	1.00	0.0	0.0			A.I.C. (RMS		42,000			
EVSE/EVCS		0.0	0.0	1.25	0.0	0.0			A Phase	J. Control of	Connected	Intaretta		
			030000000000000000000000000000000000000				and a		B Phase		Connected			
TOTAL:		367.8	442.9	1	287.7	346.	5	1	C Phase	121 /	Connected	VVO.	1	

		HK8													
DESIGNATION	FEEDER	POLES		LOAD, VA		С	Р	С		LOAD, VA		POLES	FEEDER	DESIGNATION	
	NO.	& AMPS	LTG.	RECPT.	OTHER	K	Н	К	LTG.	RECPT.	OTHER	& AMPS	NO.	Application of professional design and a	
	-		210 9000010		52576	1	Α	2		1300		2/20	4	DRAFT TABLE	
TRANSFORMER 'T-LK8'		3/175			55000.4	3	В	4		1300		2/20	1	DRAFT TABLE	
					52270.4	5	С	6		1300		2/20	1	DRAFT TABLE	
					1500	7	Α	8		1300		2/20	Ģ.I.	DATTABLE	
ROLL-UP DOOR	2	3/20			1500	9	В	10		1300		2/20	1	DRAFT TABLE	
					1500	11	С	12		1300		2/20		DATI IABLE	
					1500	13	Α	14		1300		2/20	1	DRAFT TABLE	
ROLL-UP DOOR	2	3/20			1500	15	В	16		1300		2120	3	DIVITIABLE	
					1500	17	С	18		1300		2/20	1	DRAFT TABLE	
LIGHTS	1		170			19	Α	20		1300		2120		Sittle Problem	
LIGHTS	1		450			21	В	22		1300		2/20	1	DRAFT TABLE	
LIGHTS	1		1300			23	С	24		1300		2120		DIGIT TABLE	
LIGHTS	1		1300			25	Α	26		1300		2/20	1	DRAFT TABLE	
	·				1100	27	В	28		1300		2/20		DIVITIABLE	
AC-K1-PE	2	3/20			1100	29	С	30		1300		2/20	1	DRAFT TABLE	
		, and the second			1100	31	Α	32		1300		2/20		DIVIT INDEE	
					9200	33	В	34		7-		1/20		SPARE	
AC-K1	3	3/45			9200	35	С	36				1/20		SPARE	
					9200	37	Α	38				1/20		SPARE	
SPARE		1/20				39	В	40				1/20		SPARE	
SPARE	i.	1/20				41	C	42				1/20		SPARE	
ECTION SUB-TOTALS		e e	3220	0	199746.8				0	20800	0			SECTION SUB-TOTALS	
CATEGORY		CONN. LOA	D	DESIGN LO	AD				MOUNTING	:	SURFACE			REMARKS:	
		KVA	AMPS	DIV.	KVA	AMPS	3		VOLTS:		277/480				
LIGHTING:		3.2	3.9	1.25	4.0	4.8			PHASE/WF	Æ:	3/4				
RECEPTA CLE:		171.7	206.8	0.53	90.9	109.4	4		MAINS SIZE	2	400 AMPS				
MOTORS:		48.8	58.8	1.00	48.8	58.8			MAINS TY F	Æ:	MCB			FEEDER NO.:	
SPECIAL LOADS:		0.0	0.0	1.00	0.0	0.0			BUSS TYPE: COPF		COPPER		1 =	2#12, #12G - 1/2"C	
ELECTRIC HEATING:		0.0	0.0	1.00	0.0	0.0			BRKR TYPE: BOL		BOLT-IN		2 =	3 #12, #12G - 1/2"C	
WATER HEATING:		0.0	0.0	1.00	0.0	0.0			A.I.C. (RMS): 42,000		42,000		3 =	3 #6, #10G - 1-1/4"C	
EVSE/EVCS		0.0	0.0	1.25	0.0	0.0			A Phase	75.1	Connected	Kva			
	002.0	course feedball.							B Phase	75.3	Connected Kva				
TOTAL:		223.8	269.5		143.7	173.0)		C Phase	73.4	Connected	Kva	1		

RENOVATION KEY NOTES:

DEMOLITION KEY NOTES:

ACCESSIBLE J-BOX.

NEW 600A 3P.

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.

1. DISCONNECT AND REMOVE EXISTING 400A 3P FEEDER BREAKER TO MAKE SPACE FOR THE

3. INTERCEPT EXISTING TWO 3" C AND TERMINATE IT IN AN ACCESSIBLE J-BOX SIZED PER CEC

314.28(A). SEE RENOVATION ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

4. DISCONNECT AND REMOVE THE EXISTING FEEDER FROM EXISTING PANEL 'DD' TO THE

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.

2. REMOVE EXISTING CONDUCTORS IN THE EXISTING TWO 3" C.



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DSA APP. NO: 02-122192

APP: 02-122192 INC:

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

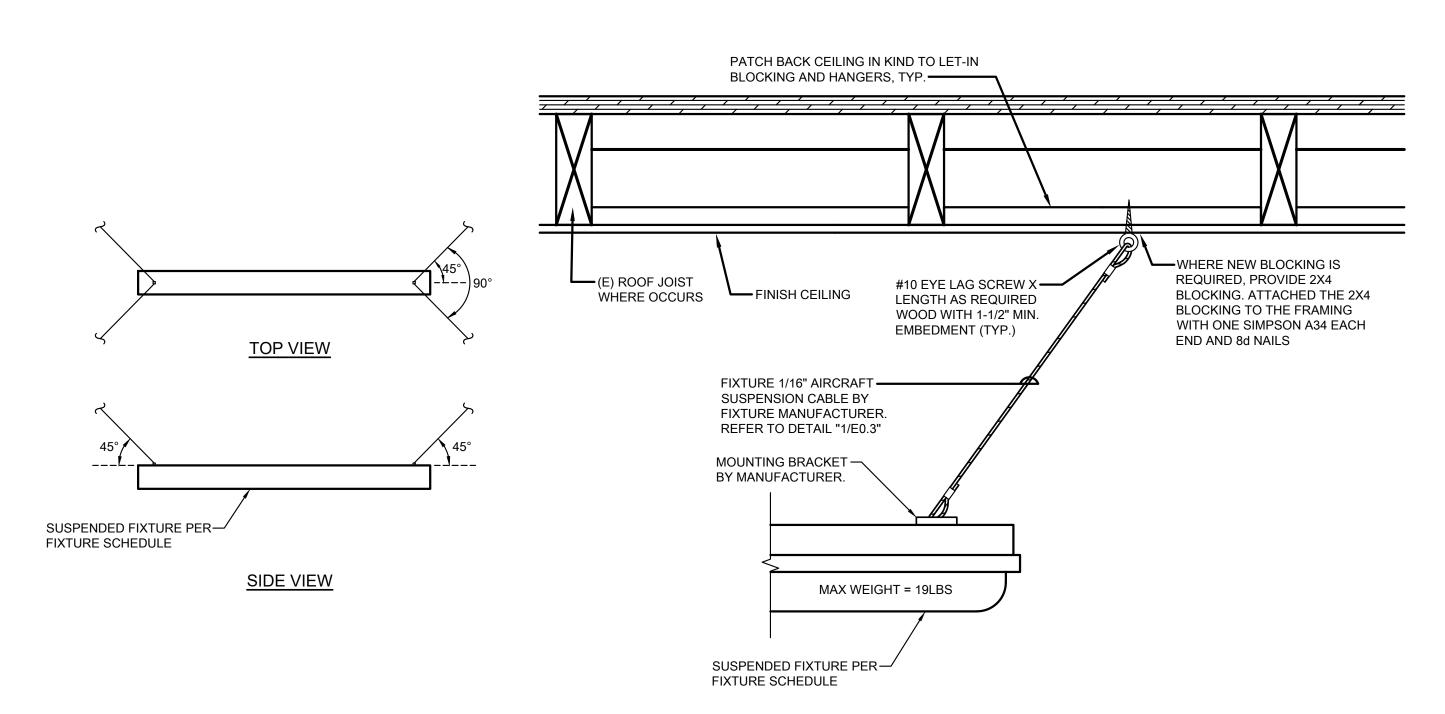
REVISIONS

	No.	Descripti	ion	Date
	1	Revision 1		Date 1
-				
	PR	OJECT No.:	2023-	014.00

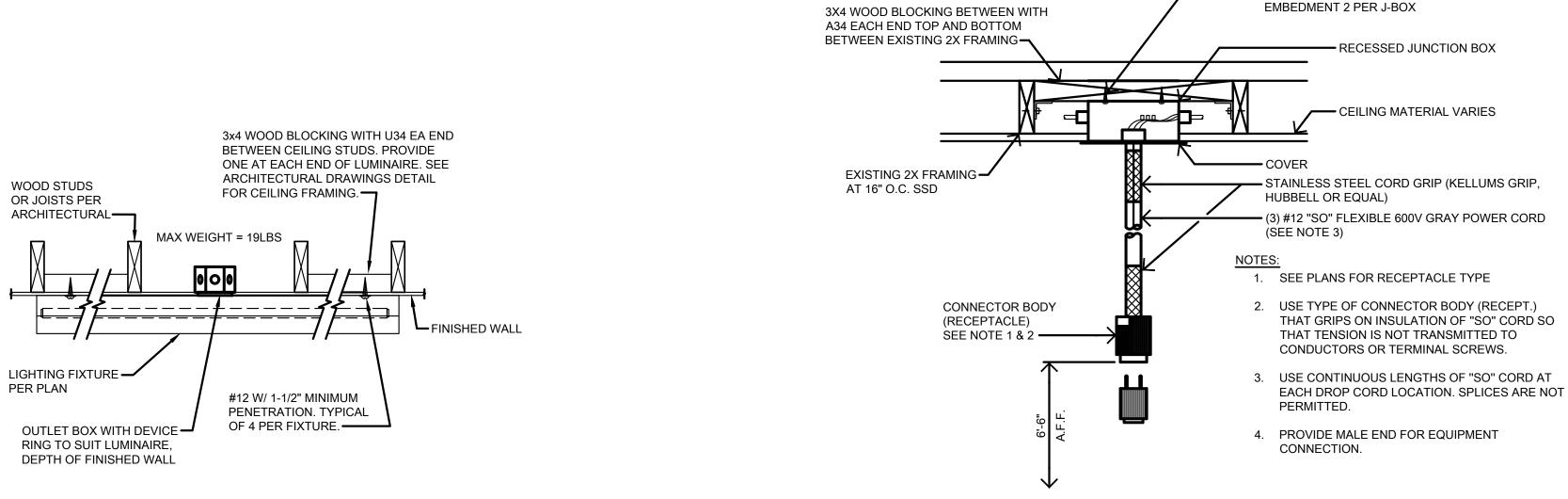
CONSTRUCTION DOCUMENTS

ELECTRICAL ONE-LINE DIAGRAM

E0.2



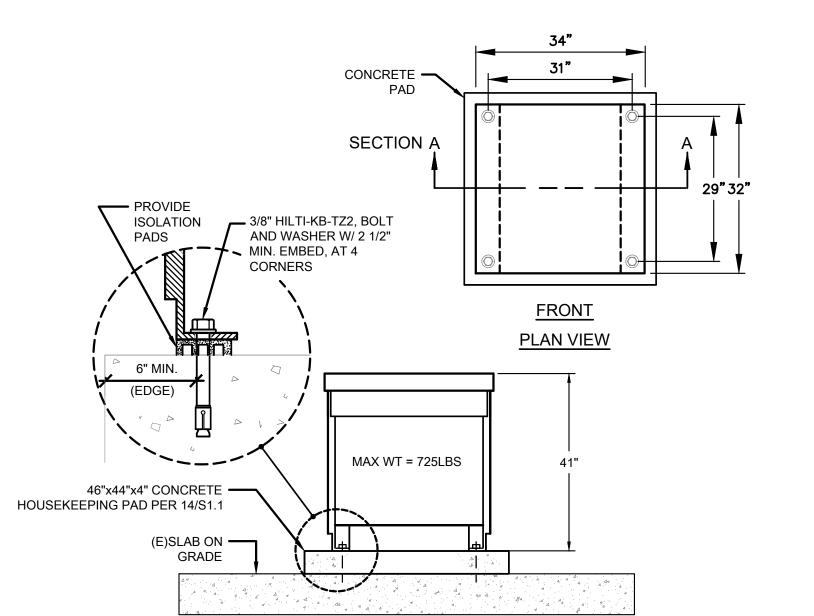






INI %

E0.3 SCALE: NTS



SECTION "A"

ELECTRICAL DROP CORD DETAIL

SCALE: NTS

EXISTING JOISTS —— :========================= MAX WEIGHT = 19LBS LIGHTING FIXTURE —/
PER PLAN #10 W/ 1-1/2" MINIMUM PENETRATION. TYPICAL OF 2 PER FIXTURE.

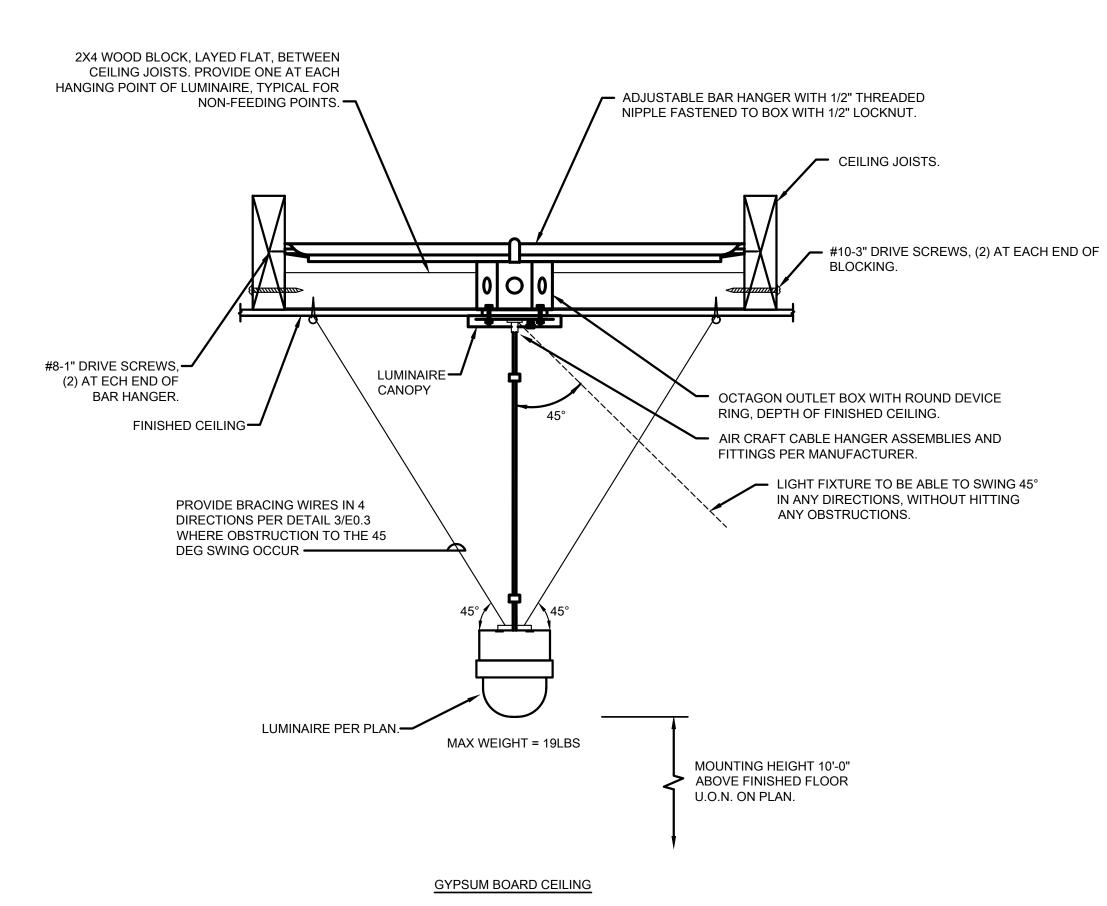
SCALE : NTS

SURFACE LIGHT FIXTURE MOUNTING DETAIL (WOOD JOIST) E0.3

TRANSFORMER MOUNTING DETAIL SCALE : NTS

E0.3

E0.3



SUSPENDED LIGHTING FIXTURE **MOUNTING DETAIL**

SCALE: NTS

E0.3

KEY NOTES

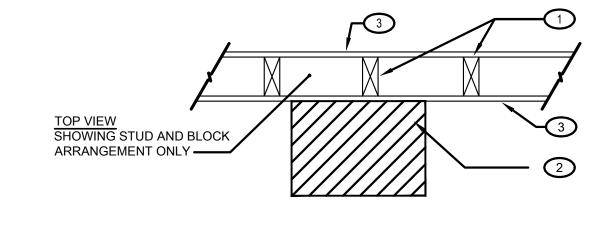
1 EXISTING 2X WOOD STUDS AT 16" ON CENTER.

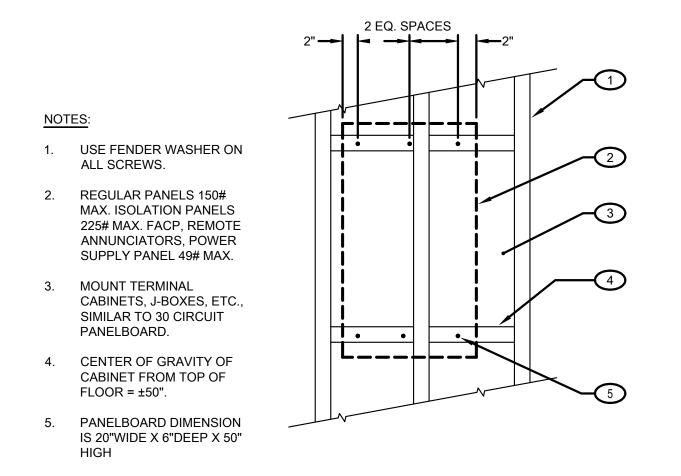
2 SURFACE MOUNTED PANEL, SEE NOTE #1

3 SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS)

4X6 WOOD BLOCKING WITH A34 FRAMING ANGLE EACH END TOP AND BOTTOM

5 5/16" X 2 1/2" LAG SCREWS (BY ELECTRICAL CONTRACTOR)



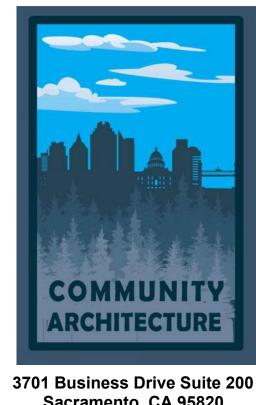


SURFACE PANEL MOUNTING DETAIL SCALE : NTS

E0.3

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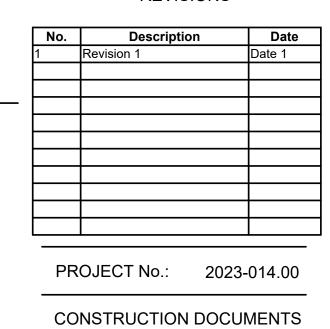
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL **AGRICULTURAL MECHANICS SHOP RENOVATION**

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ELECTRICAL DETAILS

E0.3













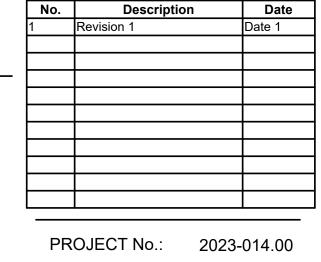
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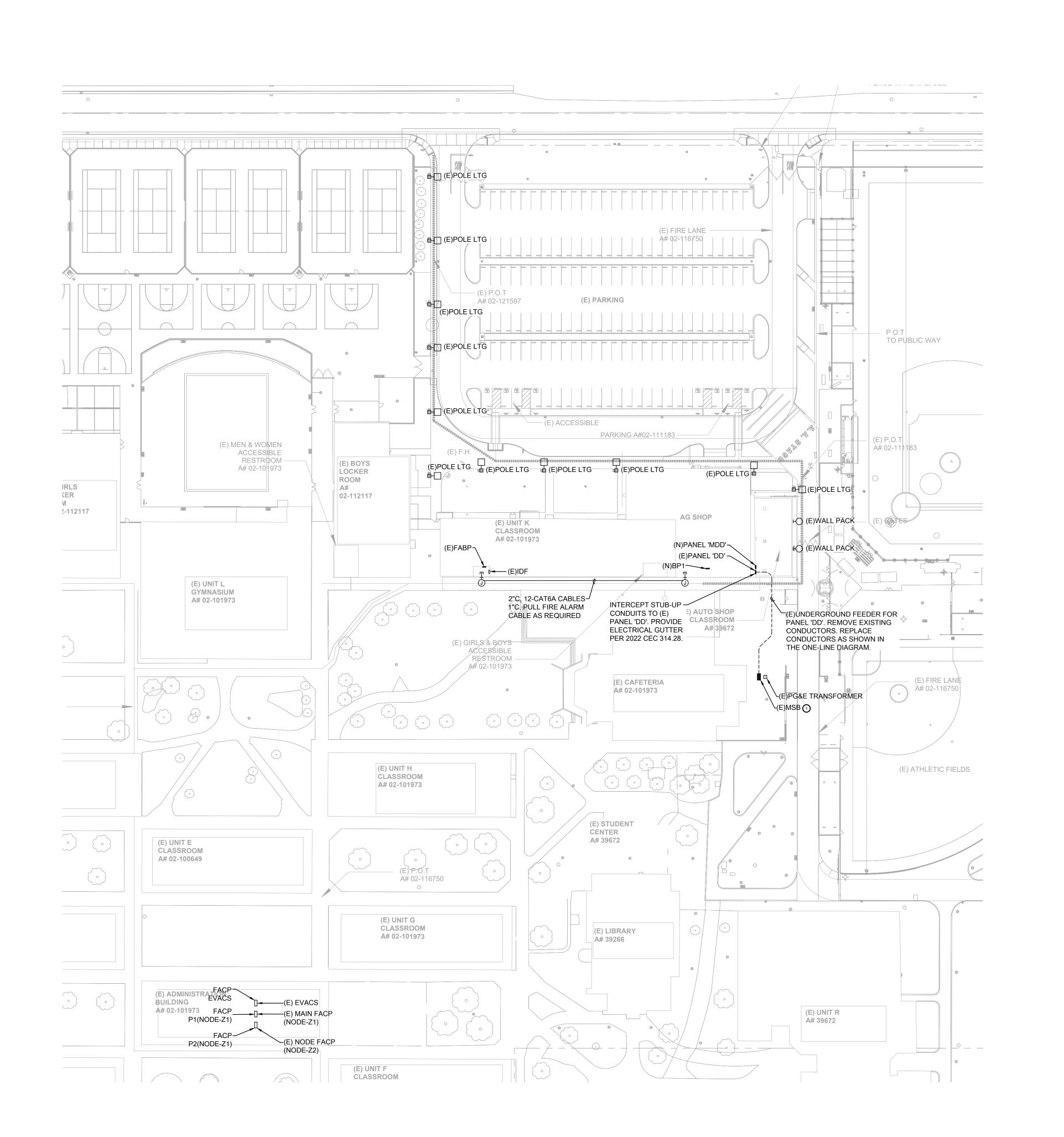
REVISIONS



CONSTRUCTION DOCUMENTS

ELECTRICAL SITE PLAN

E1.0



ELECTRICAL SITE PLAN

SCALE : 1" = 50'-0"

QC INI %

(E) TOOLS K128 AIR COMPRESSOR CONTROL PANEL TOOL STORAGE K129 (E) COMPUTER TECHNOLOGY LAB AG SHOP K9 (E) AUTOSHOP (E)TRANSFORMER 'TK1'— ON THE ROOF **(E) BOYS** K118 (E) TOILET (E) LOCKERS

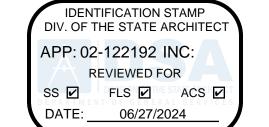
K124 ELECTRICAL DEMO POWER FLOOR PLAN E2.0 SCALE : 1/8" = 1'-0"

QC INI %

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.

- DISCONNECT POWER TO (E)AIR 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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1	Revision 1		Date 1
PR	OJECT No.:	2023-	014.00

CONSTRUCTION DOCUMENTS

ELECTRICAL DEMO POWER FLOOR PLAN

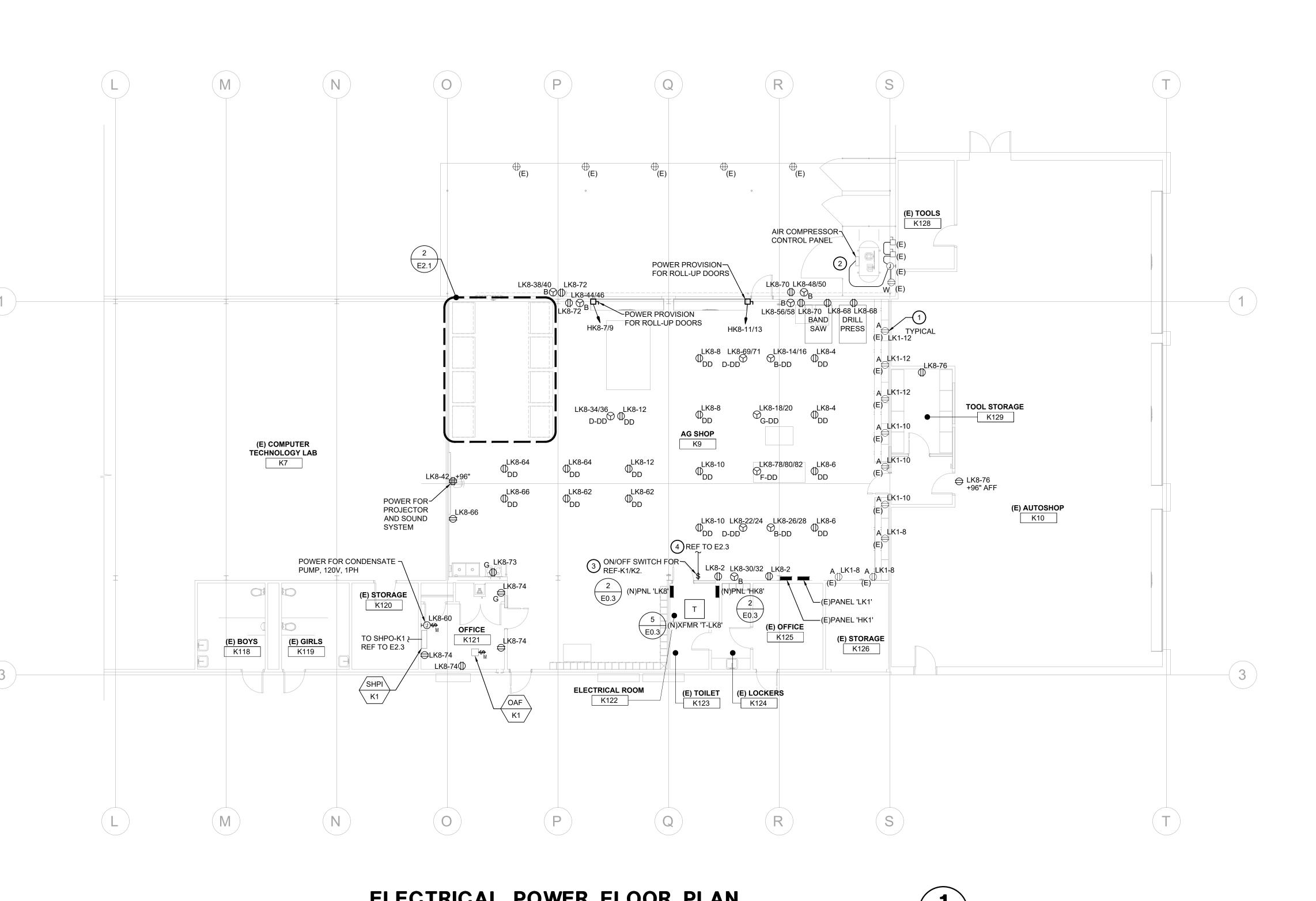
E2.0

WING-L
GIRL'S
BOY'S
L - CLASSROOM
BOILER RM
WING-K
WING-K

WING-H

B

G



ELECTRICAL POWER FLOOR PLAN

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

E2.1

(#) RENOVATION KEY NOTES:

1. PROVIDE NEW ABOVE COUNTER DUPLEX RECEPTACLE AND COVER PLATES MOUNTED ON THE STAINLESS STEEL BACKSPLASH. REUSE 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 PULLBOX. 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.

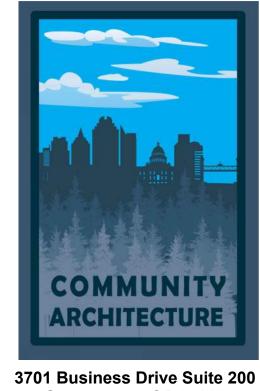
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-122192 INC:

REVIEWED FOR

SS FLS ACS
DATE: 06/27/2024

DSA APP. NO: 02-122192



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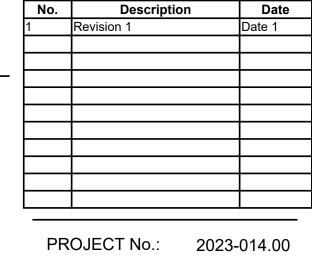
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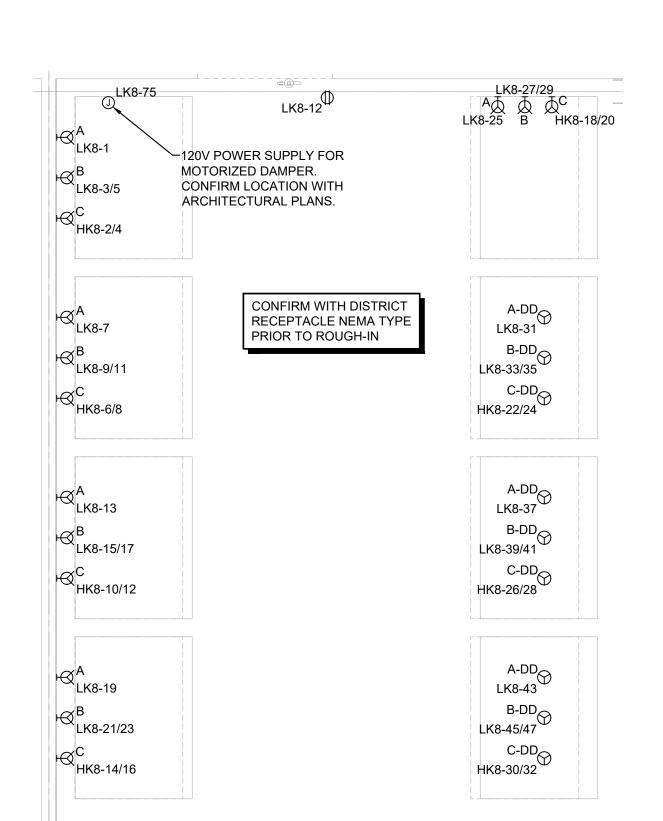
REVISIONS



CONSTRUCTION DOCUMENTS

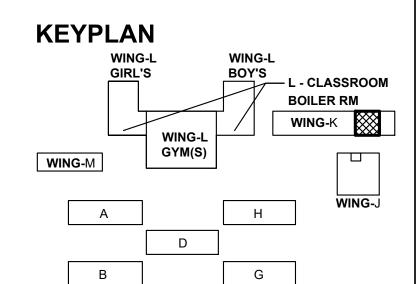
ELECTRICAL POWER FLOOR PLAN

E2.1



ENLARGED ELECTRICAL POWER FLOOR PLAN

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



E2.1

DEMOLITION KEY NOTES: DEMOLISH PORTION OF EXISTING CONDUIT.
 FUTURE SPLICE BOX TO BE PROVIDED IN THE RENOVATION PLAN. REFER TO E2.3 FOR MORE INFO. APP: 02-122192 INC: REVIEWED FOR DATE: 06/27/2024 DSA APP. NO: 02-122192 Phone: (916) 365-9655 STOCKTON UNIFIED SCHOOL DISTRICT REVISIONS No. Description **KEYPLAN** WING-L
BOY'S
L - CLASSROOM
BOILER RM
WING-K WING-M

(E) AC FOR REFERENCE ONLY.

(E) AC FOR REFERENCE ONLY.

E2.2

(E) CONDUIT FOR REFERENCE ONLY.

(E)TRANSFORMER 'TK1'-

ELECTRICAL DEMO POWER ROOF PLAN

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

QC INI %

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT SS 🗹 FLS 🗹 ACS 🗹



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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

1	Revision 1		Date 1
PR	OJECT No.:	2023-	014.00

CONSTRUCTION DOCUMENTS

ELECTRICAL DEMO POWER **ROOF PLAN**

E2.2

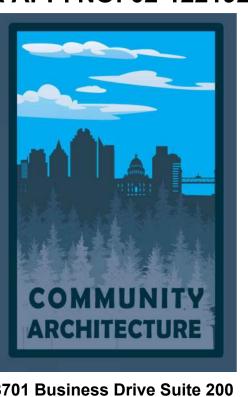
1. PROVIDE SPLICE BOX PER 2022 CEC 314.28. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING LOADS. FIELD VERIFY CONDUIT AND WIRING QUANTITY 2. ROUTE WIRING THROUGH CONTROLS RELAY. COORDINATE WITH DIV. 23. (E) AC FOR REFERENCE ONLY. (E) CONDUIT FOR REFERENCE ONLY. (E) CONDUIT FOR REFERENCE ONLY. (E) CONDUIT FOR REFERENCE ONLY. HK8-27/29/31 (POWER EXHAUST) HK8-33/35/37 REF K1 2) REF TO E2.15-7-ON/OFF SWITCH CONTROLS — WIRING. REFER TO MECHANICAL PLANS FOR MORE INFORMATION (E) AC FOR REFERENCE ONLY. (E)TRANSFORMER 'TK1'-REVISIONS ELECTRICAL POWER ROOF PLAN E2.3 SCALE : 1/8" = 1'-0" **KEYPLAN** WING-L
BOY'S
L - CLASSROOM
BOILER RM
WING-K WING-M

(#) RENOVATION KEY NOTES:

QC INI %

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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

PROJECT No.: 2023-014.00

CONSTRUCTION DOCUMENTS

ELECTRICAL POWER ROOF PLAN

E2.3

HK1-3,5

₹ TO (E) LIGHTING

FIXTURES **1 E3.0** ELECTRICAL DEMO LIGHTING FLOOR PLAN SCALE : 1/8" = 1'-0" **KEYPLAN** WING-L
BOY'S
L - CLASSROOM
BOILER RM
WING-K WING-M

KEY NOTES:

1. DISCONNECT EXISTING LIGHTING FIXTURE AND ASSOCIATED LIGHTING

LIGHTING RENOVATION PLAN FOR MORE INFORMATION.

CONTROLS. PRESERVE AND PROTECT IN PLACE EXISTING CIRCUIT AND

MOUNTING HARDWARE FOR REUSE IN THE RENOVATION PLAN. SEE

QC INI %

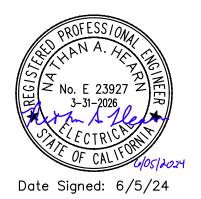
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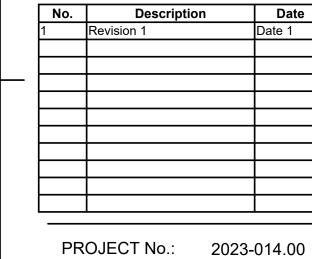
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REVISIONS



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ELECTRICAL DEMO LIGHTING FLOOR PLAN

E3.0

	l	-IGHTING FIXTURE	SCH	HED	ULE				
١G	DESCRIPTION	MANUFACTURER	LAMPS	VOLTS	WATTS	MOUNTING	LUMENS	WEIGHT	NOTES
.1	8' MVOLT VAPOR TIGHT LED STRIP LIGHT	LITHONIA LIGHTING CSVT L96 8000LM MVOLT 40K 80CRI	LED	MVOLT	68	SUSPENDED 10'-0" AFF	8326	10 LBS	SEE DETAIL 1/E0.3
ΙE	8' MVOLT VAPOR TIGHT LED STRIP LIGHT WITH BATTERY PACK	LITHONIA LIGHTING CSVT L96 8000LM MVOLT 40K 80CRI IE7WCPHE	LED	MVOLT	68	SUSPENDED 10'-0" AFF	8326	10 LBS	SEE DETAIL 1/E0.3
2	4' MVOLT VAPOR TIGHT LED STRIP LIGHT	LITHONIA LIGHTING CSVT L48 4000LM MVOLT 40K 80CRI	LED	MVOLT	34	SURFACED	4200	5 LBS	SEE DETAIL 6/E0.3
£Ε	4' MVOLT VAPOR TIGHT LED STRIP LIGHT WITH BATTERY PACK	LITHONIA LIGHTING CSVT L48 4000LM MVOLT 40K 80CRI IE7WCPHE	LED	MVOLT	34	SURFACED	4200	5 LBS	SEE DETAIL 6/E0.3
_1	WDGE1 LED WALL SCONCE WITH BATTERY PACK	LITHONIA LIGHTING WDGE1 LED-P1-40K-80CRI-VW- MVOLT-SRM- E4WH	LED	MVOLT	4	SURFACED	1200	9 LBS	SEE DETAIL 6/E0.3
В	LED STRIP LIGHT 4'	LITHONIA LIGHTING ZL1N L48 3000LM FST MVOLT 40K 80CRI	LED	MVOLT	25	SURFACED	3000	10 LBS	SEE DETAIL 6/E0.3
ıc	LED STRIP LIGHT 2'	LITHONIA LIGHTING ZL1N L24 1500LM FST MVOLT 40K 80CRI	LED	MVOLT	15	SURFACED	1500	5 LBS	SEE DETAIL

LED MVOLT

6/E0.3 SEE

5 LBS DETAIL

1500

SURFACED

GENERAL NOTES:

U1C LED STRIP LIGHT 2'

X EMERGENCY/EXIT LIGHT COMBO

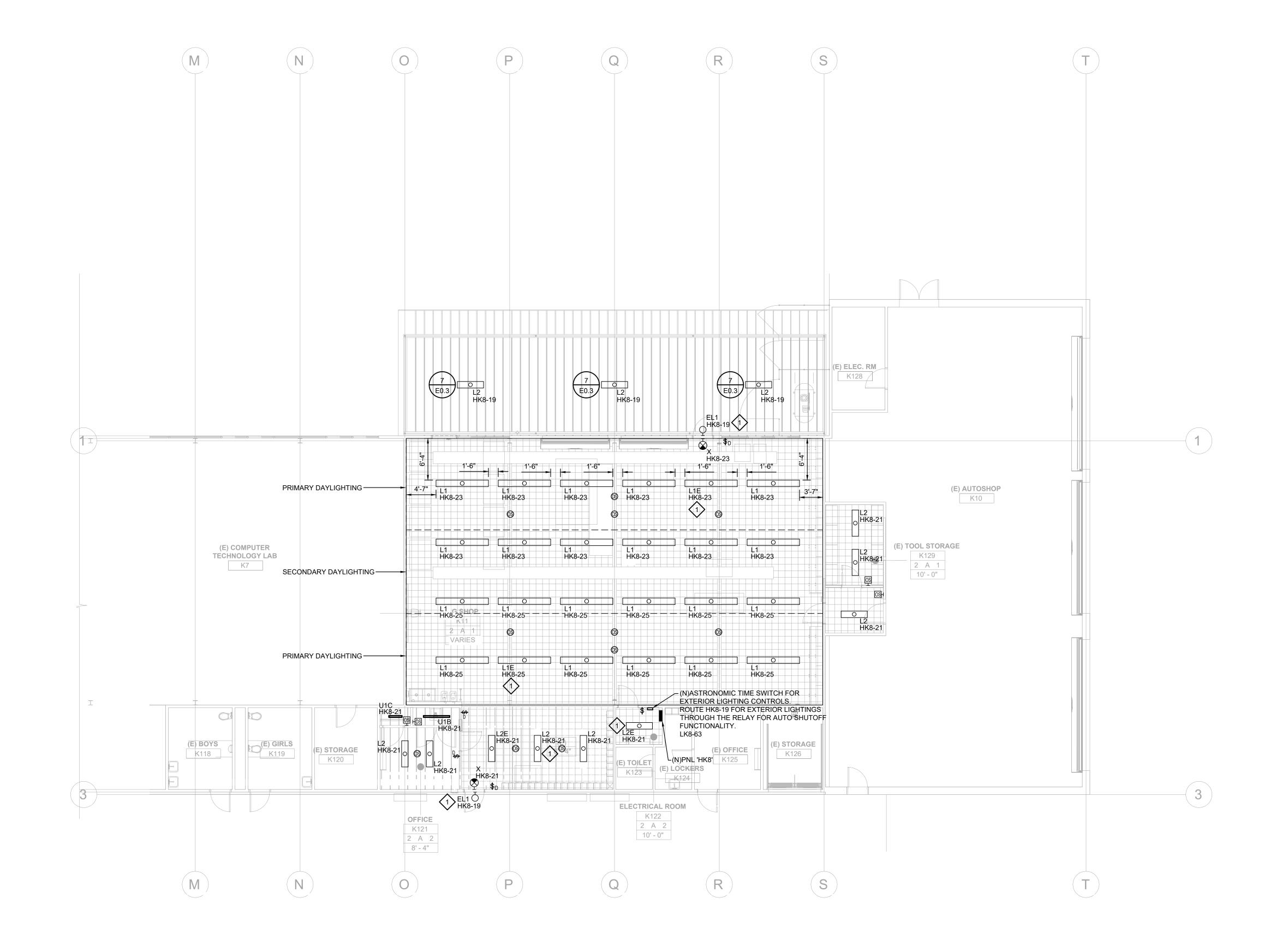
QC INI %

A. THIS LIGHTING SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING ELECTRICAL SPECIFICATIONS.

ZL1N L24 1500LM FST MVOLT 40K 80CRI

BRZ-LG-U-W-AT

- B. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
- PROVIDE SUBMITTALS THAT INCLUDE LIGHTING FIXTURE, LED, AND DRIVER INFORMATION FOR EACH FIXTURE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
- D. PROVIDE COMMISSIONING OF THE LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH CALIFORNIA TITLE 24 COMMISSIONING REQUIREMENTS.



ELECTRICAL LIGHTING FLOOR PLAN

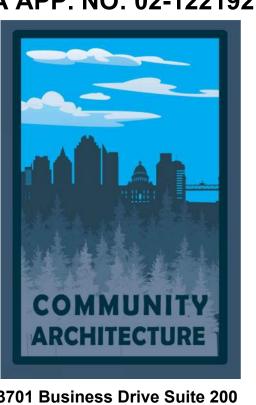
SCALE : 1/8" = 1'-0"

E3.1

SHEET KEY NOTES: 1. PROVIDE UNSWITCHED HOT LEG TO THE LIGHTING FIXTURE FOR NORMAL POWER SENSING.

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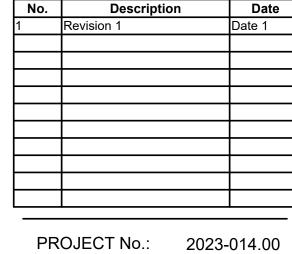
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1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS



CONSTRUCTION DOCUMENTS

KEYPLAN

WING-M

BOY'S

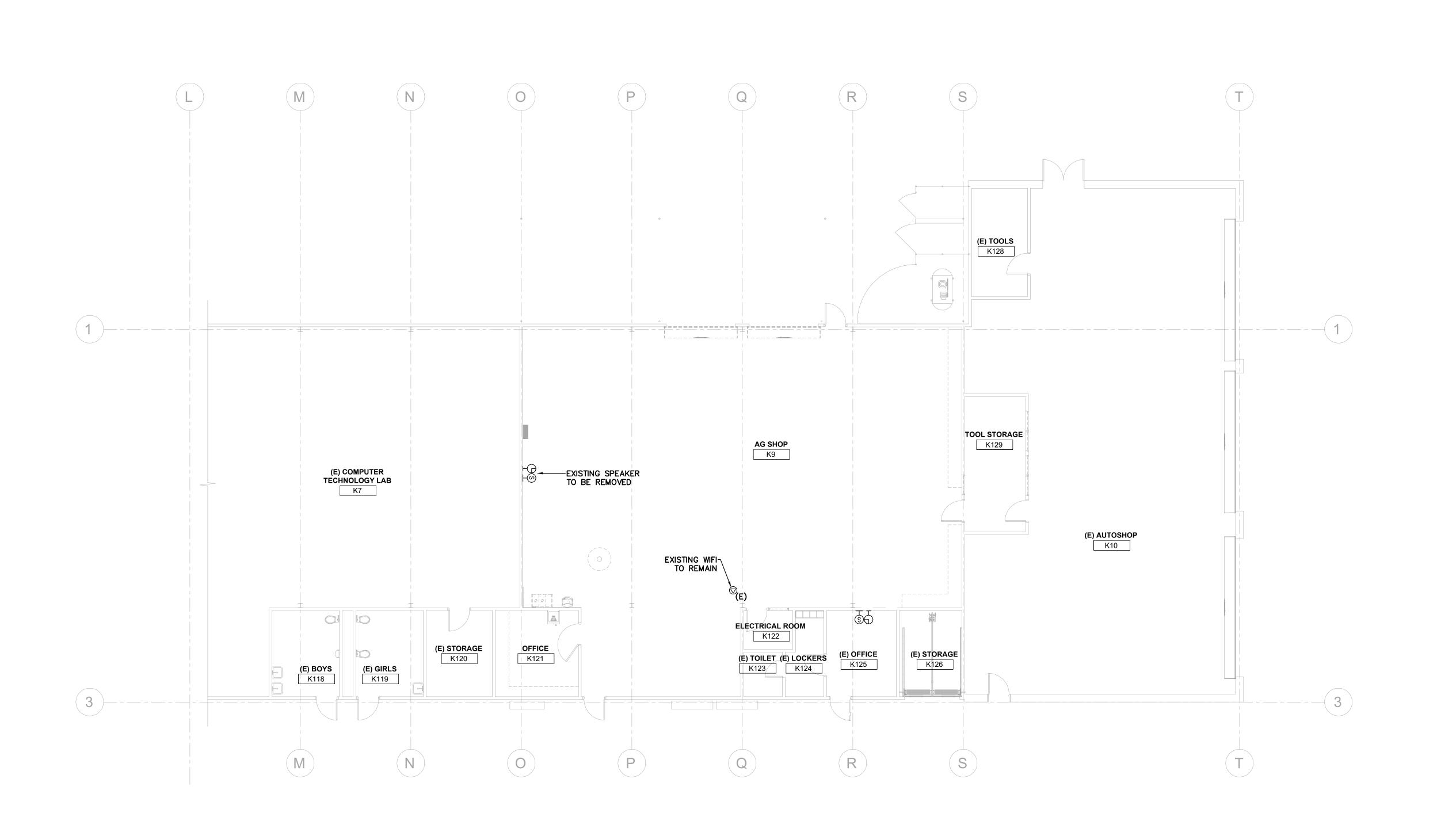
L - CLASSROOM

BOILER RM

WING-K

ELECTRICAL

LIGHTING FLOOR PLAN



E4.0

SIGNAL DEMO FLOOR PLAN

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

QC INI %

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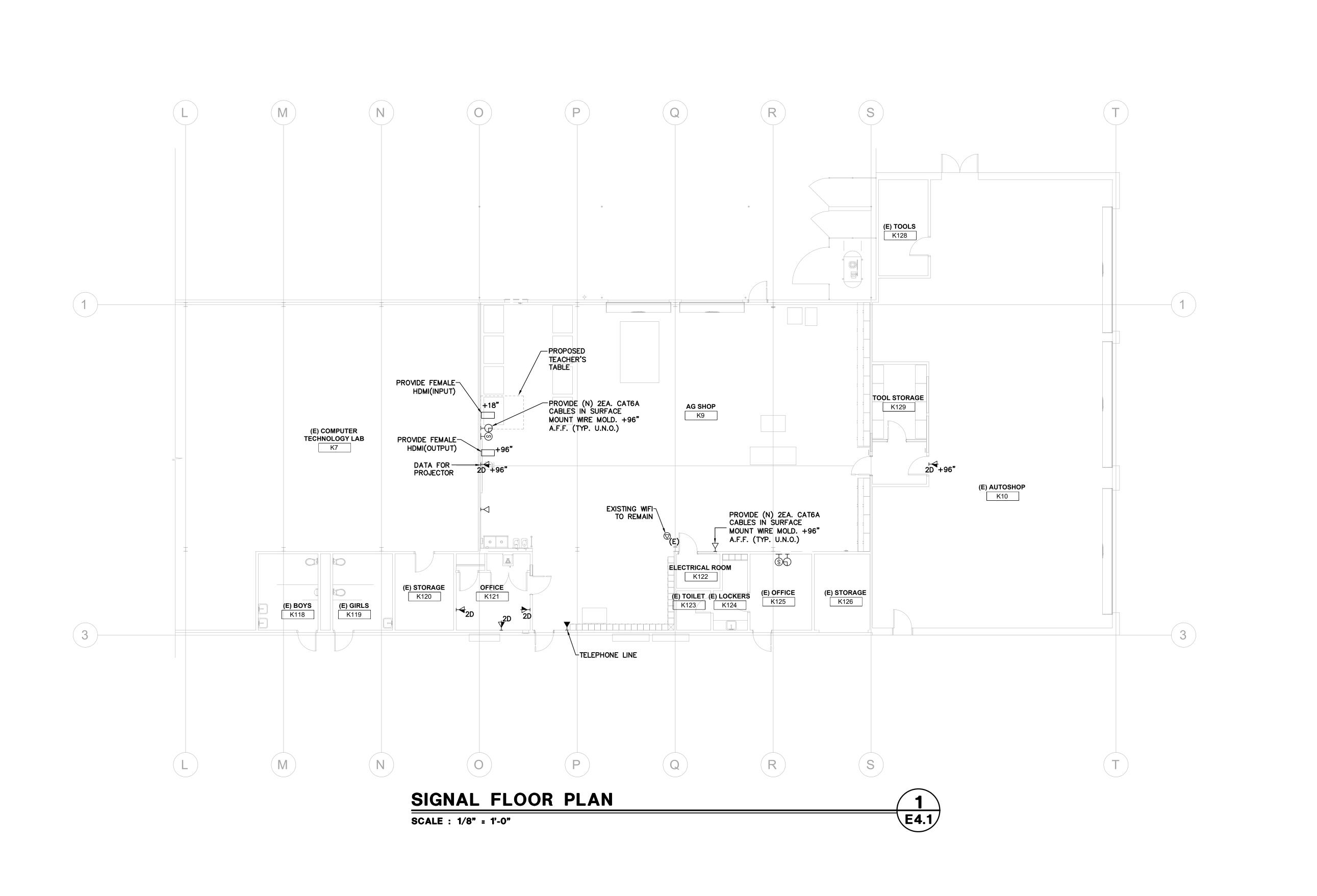
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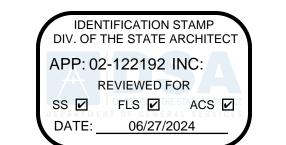
CONSTRUCTION DOCUMENTS

SIGNAL DEMO FLOOR PLAN

E4.0

KEYPLAN WING-L
BOY'S
L - CLASSROOM
BOILER RM
WING-K WING-M





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REVISIONS

	No.	Descriptio	n	Date
	1	Revision 1		Date 1
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	PR	OJECT No.:	2023-	014 00

PROJECT No.: 2023-014.00 CONSTRUCTION DOCUMENTS

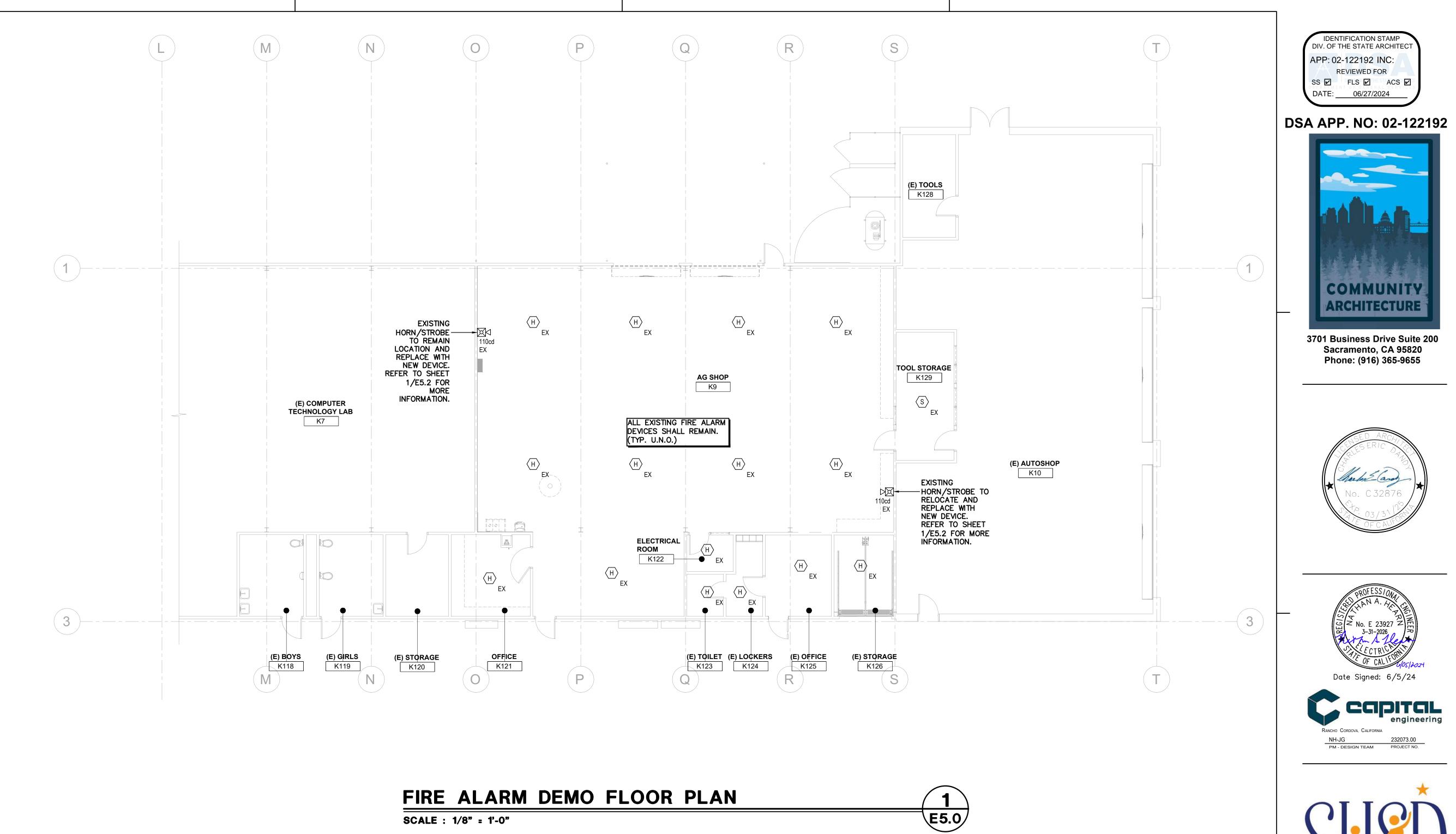
WING-L
BOY'S
L - CLASSROOM
BOILER RM
WING-K

KEYPLAN

WING-M

SIGNAL FLOOR PLAN

E4.1



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

QC
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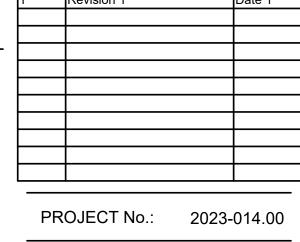
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CONSTRUCTION DOCUMENTS

KEYPLAN

FIRE ALARM **DEMO FLOOR** PLAN

E5.0

				DEVICE LEGEND	
SYMBOL	QTY	MANUFACTURER	PART NO	DESCRIPTION	CSFM
FACP	3	EDWARDS	(EX) EST3 MAIN FACP	(EX) FACP /W CPU, 4 LOOPS, 4 NACS, 4 3-ZA40B AMPLIFIERS, MIC, 3-CAB21	7165-1657:0186
NAC	1	EDWARDS	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	7300-1657:0229
MAC	1	EDWARDS	SIGA-CC1S	SYNCHRONIZATION OUTPUT MODULE (STANDARD MOUNT) - UL/ULC LISTED	7300-1657:0121
S	1	EDWARDS	SIGA-OSD W/SIGA-SB4 BASE	INTELLIGENT OPTICAL SMOKE DETECTOR	7272-1657:0511
×	2	EDWARDS	G4AVRF	WALL HORN-STROBE, RED, FIRE	7125-1657:0504

															S	YSTEM	OUTPU	TS	
										PAI	NEL ANN	IUNCIAT	ΓΙΟΝ			NO	TIFICAT	TION	SAFETY CONTROL
			Junit 1				ON STATE OF THE PARTY OF THE PA									TO MO SE			DEMARKS.
	SYSTEM INPUTS	A	В	C	D	E	F	G	Н		J	К	L	M	N	0	Р		REMARKS
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	
		А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р		

SEQUENCE OF OPERATIONS

SCALE : NTS



				Z1) (EST3 MAIN FACP) BATTI ARY POWER SOURCE REQUI				
			(02001121		STANDBY CURR	ENT (AMPS)	SECONDARY ALARM	CURRENT (AMPS
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
		1	3-ASU/4	Audio Source Unit /w 4 Rail Spaces	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
PANEL CON	IPONENTS	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-SDC1s. 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)•L1	(S)	1	SIGA-OSD w/SIGA-SB4 BASE	Intelligent Optical Smoke Detector	0.000032	0.000032	0.000045	0.000045
					TOTAL STANDBY (A)	0.695032	TOTAL ALARM (A)	0.779045
							DBY TIME = 24 HOURS	
						REQUIRED ALAF	RM TIME = 5 MINUTES	
	SECONDARY ST	` ,		0.695032	24		16.6	
	SECONDARY A	()		0.779045	0.08		0.06	<u> </u>
	STANDBY AND ALARM S DERATING						16.75	
	SECONDARY LOAD REQU		.)	+			1.25 20.93	
	CLOCKDAIN LOAD NEQU	TINEIVIEW (AIVII 110010	,	IOVIDE (2) 12V 55AH BATTER	IFC		<u> </u>	

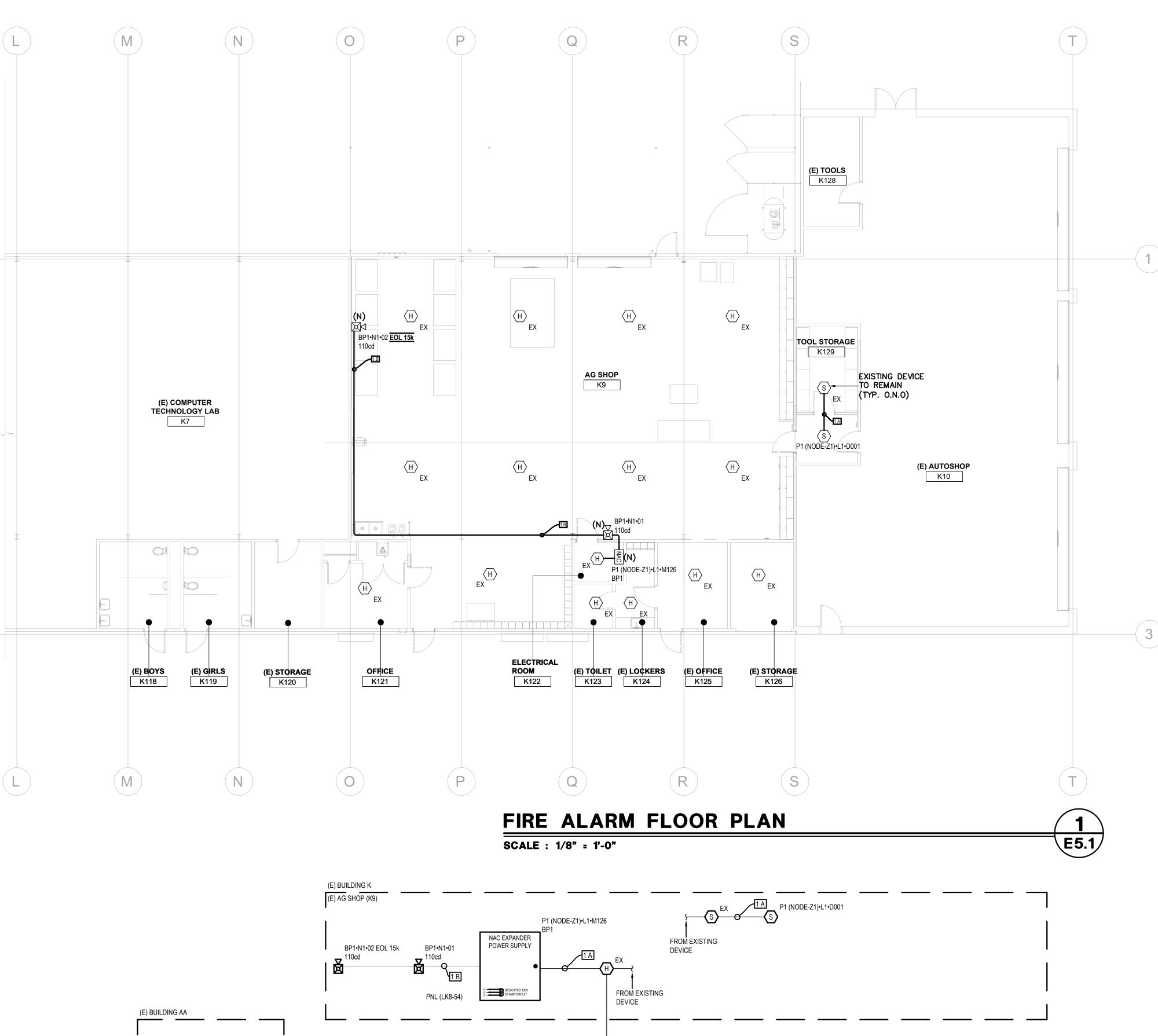
			PANEL E	BP1 (BPS10A) BATTERY CALC	CULATION			
			(SECOND.	ARY POWER SOURCE REQUI	REMENTS)			
				T	STANDBY CURR	ENT (AMPS)	SECONDARY ALARM (CURRENT (AMPS)
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
PANEL C	OMPONENTS	1	BPS10A Mainboard	Mainboard for BPS10A assembly	0.07	0.07	0.27	0.27
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
BP1•N1	鲎	2	G4AVRF	Wall horn-strobe, red, FIRE 110cd	0	0	0.05	0.1
					TOTAL STANDBY (A)	0.07	TOTAL ALARM (A)	0.37
						REQUIRED STAN	DBY TIME = 24 HOURS	
						REQUIRED ALAF	RM TIME = 5 MINUTES	
	SECONDARY ST	ANDBY LOAD (A)		0.07	24		1.68	
	SECONDARY A	LARM LOAD (A)		0.37	0.08		0.03	
	STANDBY AND ALARM S	SUBTOTAL (AMP HOURS)					1.71	
	DERATING	G FACTOR					1.25	
	SECONDARY LOAD REQU	JIREMENTS (AMP HOUR	S)				2.14	

							CIRCUIT	SETTINGS	T01	ΓALS
							Starting Calculation Voltage:	19.7	Max. Voltage Drop:	0.02
		BP1 N	1 POINT-TO-POINT RE	PORT			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
	Circuit Wi	iring Properties: 'B' 14/2 FP	LR 14 AWG, 2 Cond. So	olid Copper FPLR Analo	g Unshielded		Total Circuit Length (Ft):	75	Spare Current (A):	2.9
	Distan	ce measured using drawn s	segment lengths with 10	.00 % additional length	calculated		Total Circuit Resistance (Ω):	0.45966	Spare Current (A) Percent:	96.67 %
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 Perce
BP1•N1•01	G4AVRF	Wall horn-strobe, red, FIRE 110cd	0.05	0.1	3	0.019838	0	19.7	0	0.01 %
BP1•N1•02 EOL 15k	G4AVRF	Wall horn-strobe, red, FIRE 110cd	0.05	0.05	72	0.439822	0.02	19.68	0.02	0.12 %
Calculation Methods:										•
	` '	ance (Ω/Ft) x 2 x Dist. From	\ /							
/oltage Drop From Previo	us = Resistance Fr	rom Previous (Ω) x Remaini	ng Current (A)							

BATTERY CALCULATIONS

SCALE : NTS

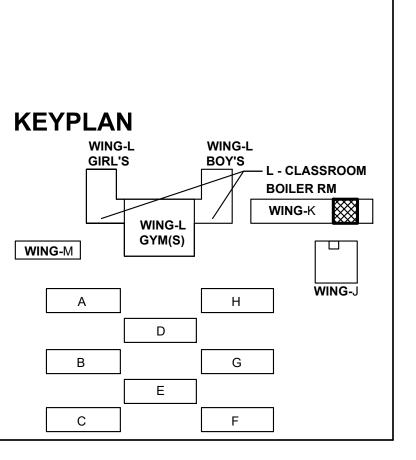




	(E) AG SHOP (K9) BP1•N1•02 EOL 15k BP1•N1•01 110cd 110cd PNL (LK8-54)	P1 (NODE-Z1)•L1•M126 BP1 NAC EXPANDER POWER SUPPLY TA FROM EXIST DEVICE	FROM EXISTING DEVICE	
(E) BUILDING AA		BEVIOL		
				<u> </u>
FIRE ALARM CONTROL PANEL H				

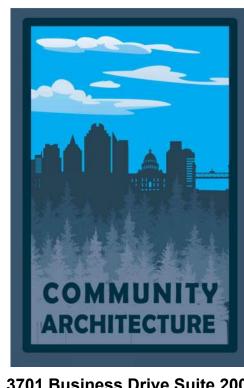
		CABLE LEGEND
LABEL	AWG	DESCRIPTION
А	16	16/2 FPLP CABLE (SLC)
В	14	14/2 FPLP CABLE (NAC)
С	14	14/2 FPLP SHIELDED CABLE (SPEAKER)
D	16	16/2 FPLP CABLE (AUX)

RISER DIAGRAM **2** E5.1 SCALE: NTS





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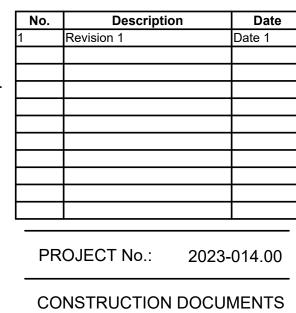
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FIRE ALARM FLOOR PLAN

E5.1

ABBREVIATIONS

ACP AFF AHJ AMP AOR AUTO AUX AWG BCT C CATV	ACCESS CONTROL PROCESSOR ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION AMPLIFIER ARCHITECT OF RECORD AUTOMATIC AUXILIARY AMERICAN WIRE GAUGE BONDING CONDUCTOR FOR TELECOMMUNICATIONS CONDUIT COMMUNITY ANTENNA TELEVISION CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	(X) C C C C C C C C C C C C C C C C C C C	NEW NORMALLY CLOSED NOT IN CONTRACT NORMALLY OPEN NOT TO SCALE ON CENTER OWNER FURNISHED, CONTRACTOR INSTALLE OWNER FURNISHED, OWNER INSTALLED OUTSIDE PLANT PULL BOX POWER OVER ETHERNE PAIR OF CONDUCTORS POLYVINYL CHLORIDE
ECS EF EMT ER EXT (F) FACP FATC FABP FB FO GC IDF INT IP JB LV MDF MIC MM MPOE	ELECTRICAL CONTRACTOR EMERGENCY COMMUNICATION SYSTEM ENTRANCE FACILITY FOR TELECOMMUNICATION ELECTRIC METALLIC TUBING EQUIPMENT ROOM EXTERIOR FUTURE FIRE ALARM CONTROL PANEL FIRE ALARM TERMINAL CABINET FIRE ALARM BOOSTER PANEL FLOORBOX FIBER OPTIC GENERAL CONTRACTOR INTERMEDIATE DISTRIBUTION FRAME INTERIOR INTERNET PROTOCOL JUNCTION BOX LOW VOLTAGE MAIN DISTRIBUTION FRAME MICROPHONE MULTIMODE MINIMUM POINT OF ENTRY	SCS SM STR STP SEC TBB TELCO TGB TMGB TYP UNO UPS UTP V WB WP	STRUCTURED CABLING SYSTEM SINGLE MODE STRANDS (OF FIBER) SHIELDED TWISTED PAI SECURITY TELECOMMUNICATIONS BONDING BACKBONE TELEPHONE COMPANY TELECOMMUNICATIONS GROUNDING BUSBAR TELECOMMUNICATIOIN MAIN GROUNDING BUSE TYPICAL UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POW SUPPLY UNSHIELDED TWISTED PAIR VOICE WALL BOX WEATHERPROOF

DSA GENERAL NOTES

- APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35 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 UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FACTORY MUTUAL
 - (FM) 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH CBC / CFC SECTION 907.6.6.2. 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 APPROVED BY

- UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON
- THE JOB SITE AND USED FOR INSTALLATION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE
- ARCHITECT/ENGINEER OF THE PROJECT. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48

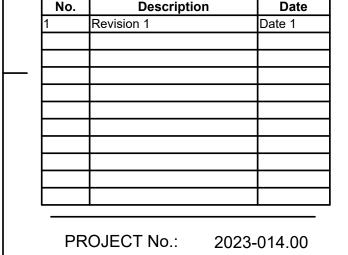
HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.

- ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
- WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
- 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.
- 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 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE 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 FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT
- 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

ABOVE GROUND MAY BE TYPE THHN OR THWN.

- 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/CONTAMINATION ON NEWLY 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 MANOR 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 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS. REFER TO SHEET 2/E0.3 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 LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "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.

MECHANICS SHOP RENOVATION 1621 BROOKSIDE ROAD STOCKTON, CA 95207 STOCKTON UNIFIED SCHOOL DISTRICT ── 96" MAXIMUM REVISIONS

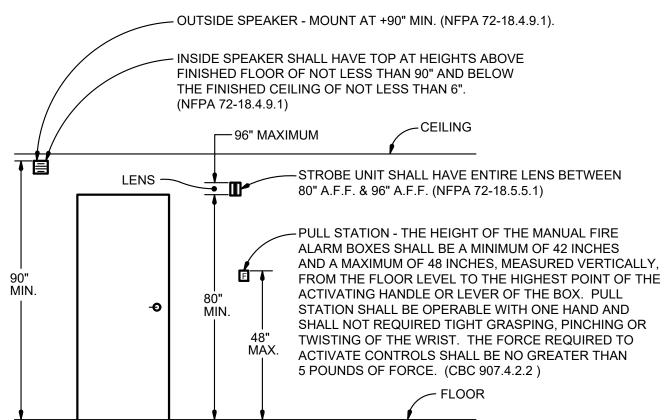


CONSTRUCTION DOCUMENTS

FIRE ALARM GENERAL **NOTES AND**

DETAILS

E5.2



FIRE ALARM DEVICE MOUNTING DETAIL

SCALE : NTS

1 E5.2



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS 🗹 FLS 🗹 ACS 🗹

DSA APP. NO: 02-122192

ARCHITECTURE

3701 Business Drive Suite 200

Sacramento, CA 95820

Phone: (916) 365-9655

APP: 02-122192 INC:

DATE: 06/27/2024

55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

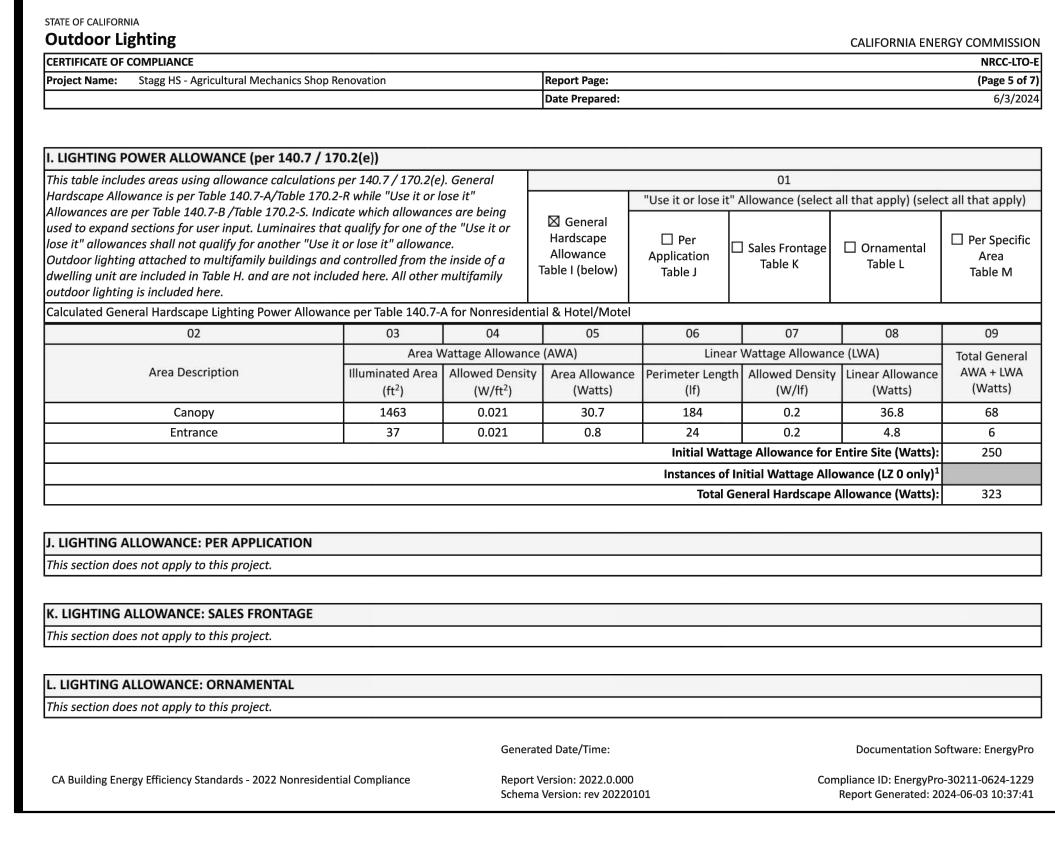
STAGG HIGH SCHOOL **AGRICULTURAL**

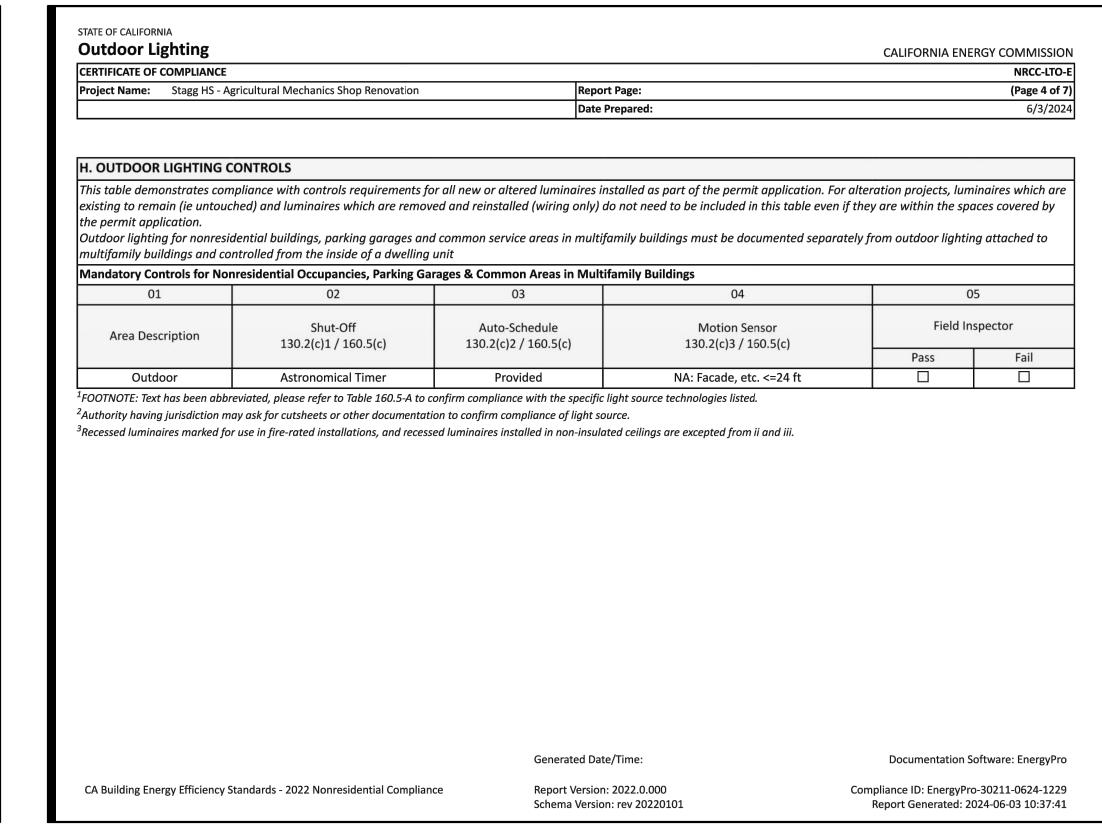
CERTIFICATE OF	COMPLIANCE						:		FORNIA ENERGY	NRC	
Project Name:	Stagg HS - Agricultural Mecl	anics Shop Renovat	ion		Report Page:		,			(Page	3 of
					Date Prepared:		·			6,	3/20
For new or alte the spaces cove nstalled and re	LIGHTING FIXTURE SCHE red lighting systems demon ered by the permit applicati placement luminaires being g attached to multifamily b ded here.	strating complian on are included in ginstalled as part	the Table below. of the project sc	For altered ligl ope are include	nting systems usi d (ie, existing lun	ing the Existing ninaires remail	Power method ning or existing	per 141.0(b)2L Iuminaires being	only new lumino g moved are not	aires bei include	ng d).
Designed Watt	age:										
01	02		03	04	05	06	07	08	09	10)
Name or Item	Complete Luminaire	Description	Watts per	How is Wattage	Total Number	Luminaire	Excluded per 140.7(a) /	Design Watts	Cutoff Req. > 6,200 initial lumen output	Fie Inspe	
Tag	complete Euriniane	Description	luminaire ^{1, 2}	determined	Luminaires ²	Status ³	170.2(e)6A	Design wates	130.2(b) / 160.5(c)1 ⁴	Pass	Fai
EL1	EL1	Linear	4	Mfr. Spec	2	New		8	NA: < 6200 lumens		
L2	L2	Linear	42	Mfr. Spec	3	New		126	NA: < 6200 lumens		
						Tota	l Design Watts:	134			
		to 130.2(b)									
¹ FOOTNOTES: Au ² For linear lumin ³ Select "New" foo for existing lumin the project scope	lighting a statue; EXCEPTION 2 thority Having Jurisdiction ma aires, wattage should be indic r new luminaires in a new outo aires within the project scope	ask for Luminaire c ated as W/lf instead oor lighting project, hat are not being al	of Watts/luminair or for added lumi tered and are rem	e. Total linear fee naires in an alter aining. Select "Ex	et should be indica ation. Select "Alter kisting Reinstalled"	ted in column 05 red" for replacen ' for existing lum	instead of numbonent luminaires in inaires which are	an alteration. Se			

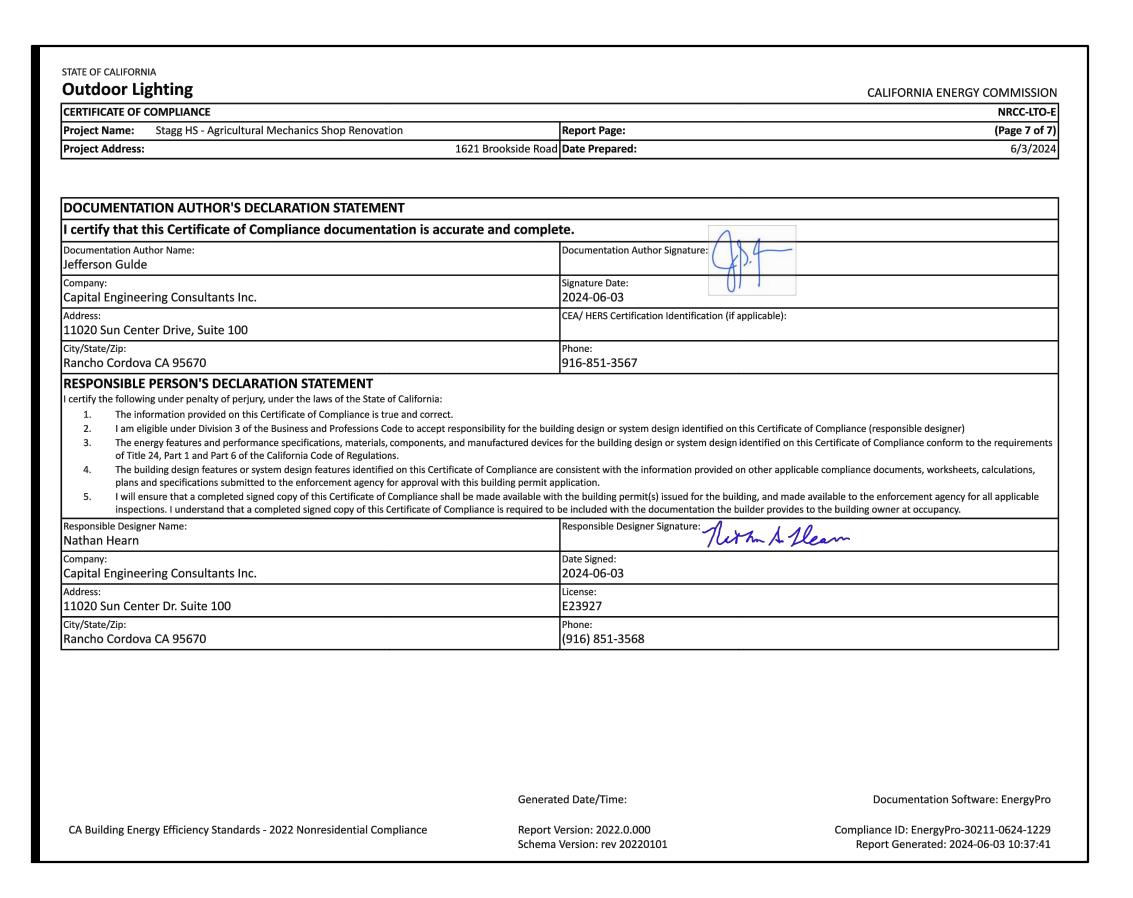
CERTIFICATE OF	сом	PLIANCE				•									NRCC-LTO-
roject Name:	Sta	agg HS - Agricultu	ral M	echanics Shop Re	enova	tion		Re	port	Page:					(Page 2 of 7
								Da	te Pr	epared:					6/3/202
	table								nroug	h N. Note: If an	y cell	on this table says "	СОМР	LIES with Exceptio	nal Conditions" refe
Calc	ılatio	ns of Total Allo	wed	Lighting Power	(Wa	tts) 140.7 / 170	0.2(e)6 or 141.0(b)2L	L / 18	80.2(b)4Bv			Cor	mpliance Results	
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 0
	+		+		+		+		OR		=	323	≥	134	COMPLIES
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		CONDITIONS		2000		ng Compliance ols Compliance		Table G for Det	CHAIN - CAN						
o. EXCEPTIO		CONDITIONS lled with unedit	able	Co	ontro	ols Compliance	(See		tails)	ples throughout	the f	orm.			
D. EXCEPTIO	ıto-fil	lled with unedit	able	Co	ontro	ols Compliance	(See	Table H for Det	tails)	oles throughout	the f	orm.			
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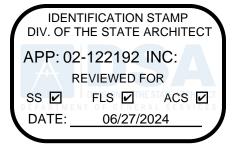
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. Project Name: Stagg HS - Agricultural Mechanics Shop Renovation Report Page: (Page	Out	tdoor Lighting						<u> </u>	ALIFORNIA ENER	OT COMMINISSI
nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)48v for outdoor lighting scopes us the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. Report Page:										NRCC-LT
Residence Resi	nonr	residential and hotel/motel occupancies.	It is a	Iso used to a	document compliance with	require	ments in 160.5, 170.2(e)6, 180.1(a) an			-
A. GENERAL INFORMATION 01 Project Location (city) Stockton 02 Climate Zone 12 03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): L2-0: Very Low - Undeveloped Parkland L2-2: Moderate - Urban Clusters L2-4: High - Must be reviewed by CA Energy Commission for Approval	Proje	ect Name: Stagg HS - Agricultural Mechan	nics Sh	op Renovatio	n	Repo	ort Page:			(Page 1 o
01 Project Location (city) Stockton 04 Total Illuminated Hardscape Area (ft²) 1500 02 Climate Zone 12 1500	Proje	ect Address:		:	1621 Brookside F	oad Date	Prepared:			6/3/2
Description										
1500 1500	A. G	ENERAL INFORMATION								
02 Climate Zone 12 12	01	Project Location (city)	Stoc	kton		0.4				
□ IZ-0: Very Low - Undeveloped Parkland □ IZ-2: Moderate - Urban Clusters □ IZ-4: High - Must be reviewed by CA Energy Commission for Approval □ IZ-1: Low - Rural Areas □ IZ-3: Moderately High - Urban Areas 05 Occupancy Types within Project • Commercial Industrial B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4BV for alterations. My Project Consists of: 01 02 □ New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6 □ Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No 03 04 05 % of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method □ < 10%	02	Climate Zone	12	:		04	lotal Illuminated Hardscape Area (ft) 1500		
□ LZ-1: Low - Rural Areas □ LZ-3: Moderately High - Urban Areas 05 Occupancy Types within Project • Commercial Industrial B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations. My Project Consists of: 01 02 □ New Lighting System	03	Outdoor Lighting Zone per Title 24 Part	1 10.:	114 or as de	signated by Authority Hav	ing Juriso	diction (AHJ):	'		
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B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations. My Project Consists of: O1 New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No % of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.		LZ-1: Low - Rural Areas	\boxtimes	LZ-3: Mode	erately High - Urban Areas	•	•			
B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7/170.2(e)6 or 141.0(b)2L/180.2(b)4Bv for alterations. My Project Consists of: O1 New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No % of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method Velace proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.	05	Occupancy Types within Project	•	•			·			
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03 04 05 % of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method □ < 10% □ >= 10% and < 50% □ >= 50% 0 Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.	This :	table includes outdoor lighting systems a 2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alt Project Consists of:			e scope of the permit appl	cation a		g the prescriptive	e path outlined i	n 140.7/
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¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.	This : 170.2 My P	table includes outdoor lighting systems (2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alternation of the consists of: O1 New Lighting System Altered Lighting System 03 % of Existing Luminaires Being Alternation outdoor outdo	eratio	ns.	Must Comply with Allowal s your alteration increasir	ices from g the cor 04 inaires B	02 n 140.7 / 170.2(e)6 nnected lighting load (Watts)?	Yes	05	
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Outdoor Lighting CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-LTO-E
Project Name: Stagg HS - Agricultural Mechanics Shop Renovation	Report Page:	(Page 6 of 7)
,	Date Prepared:	6/3/2024
AA LICUTING ALLOWANGS, DED CDECISIC ADEA		
M. LIGHTING ALLOWANCE: PER SPECIFIC AREA		
This section does not apply to this project.		
N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)		
This section does not apply to this project.		
O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION		
Selections have been made based on information provided in this documer Additional Remarks. These documents must be provided to the building ins		nation should be included in Table E.
	Form/Title	
NRCI-ITO-F - Must be submitted for all buildings	Form/Title	
NRCI-LTO-E - Must be submitted for all buildings	Form/Title	
	Form/Title	
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE		nation should he included in Table F
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document the second sec	nt. If any selection has been changed by permit applicant, an expla spector during construction and must be completed through an Acc	
NRCI-LTO-E - Must be submitted for all buildings P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document Additional Remarks. These documents must be provided to the building instance (ATTCP). For more information visit: http://www.energy.ca.gov/timeson.	nt. If any selection has been changed by permit applicant, an expla spector during construction and must be completed through an Acc	
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this documen Additional Remarks. These documents must be provided to the building ins Provider (ATTCP). For more information visit: http://www.energy.ca.gov/ti	nt. If any selection has been changed by permit applicant, an expla spector during construction and must be completed through an Acc tle24/attcp/providers.html	Systems/Spaces To Be Field Verified
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this documen Additional Remarks. These documents must be provided to the building ins Provider (ATTCP). For more information visit: http://www.energy.ca.gov/ti	nt. If any selection has been changed by permit applicant, an expla spector during construction and must be completed through an Acc tle24/attcp/providers.html	Systems/Spaces To Be Field
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document Additional Remarks. These documents must be provided to the building instance (ATTCP). For more information visit: http://www.energy.ca.gov/ti	nt. If any selection has been changed by permit applicant, an expla spector during construction and must be completed through an Acc tle24/attcp/providers.html	Systems/Spaces To Be Field Verified









DSA APP. NO: 02-122192



701 Business Drive Suite 2 Sacramento, CA 95820 Phone: (916) 365-9655







55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL MECHANICS SHOP RENOVATION

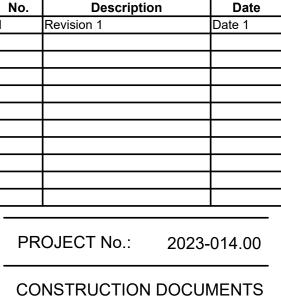
1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS

Description

1 Da



TITLE 24 LTO FORMS

E6.0

CERTIFICATE OF COMPL	.IANCE											NRCC-LT
roject Name: Stag	g HS - Agricultu	ral Mechanics Sh	op Renovation			Repo	rt Pa	ge:				(Page 2 of
						Date	Prep	ared:				6/3/20
. COMPLIANCE RE												
any cell on this tabl	e says "DOES i	NOT COMPLY"	or "COMPLIES I	with Exception	al Co	onditions" refe	r to				at \ / a== at \ \	
	Allo	wed Lighting P	ower per 140.	6(b) / 170.2(e) (Wa	atts)		Adjusted Ligh	nting Power per (Watts)	140	.6(a) / 170.2(e)	Compliance Results
Lighting in	01	02	03	04		05		06	07		08	09
conditioned and unconditioned			Area						Adjustments			
spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	Total Allowed (Watts)	2	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	П	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 140.6 / 170.2(e)
	(See Table I)	(See Table I)	(See Table J)	(See Table K)		2 224		(See Table F)	(See Table P)		2254	001401150
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		-			-	Patr	-d D				Table Q for Details)	COMPLIES
b. EXCEPTIONAL CO		able comments	because of sel	ections made (or da	nta entered in t	able	s throughout t	the form.			
. ADDITIONAL REM	MARKS											
his table includes rei	marks made b	y the permit ap	pplicant to the	Authority Havi	ng Ju	urisdiction.						
						Generated Dat	e/Tii	me:			Docur	nentation Software: EnergyP
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CERTIFICATE OF COMPLIANCE					+	CALIFORNIA ENERG	NRCC-LTI-
	te compliance with requirements in 110).9, 110.12(c), 130.0, 130.	1, 140	0.6 and 141	.0(b)2 for indoor light	ing scopes using the prescripti	
nonresidential and hotel/motel occu	pancies. It is also used to document con ultifamily includes dormitory and senior	npliance with requiremer					
Project Name: Stagg HS - Agricultura	al Mechanics Shop Renovation	Report P	Page:				(Page 1 of
Project Address:	162	21 Brookside Road Date Pre	epared:	:			6/3/202
A. GENERAL INFORMATION							
01 Project Location (city)	Stockton	04	Total	l Condition	ed Floor Area (ft²)	3,401	
02 Climate Zone	12				oned Floor Area (ft²)	0	
03 Occupancy Types Within Project	(select all that apply):				bitable Above Grade)	1	
Commercial Industrial				<u>,</u>			
B. PROJECT SCOPE							
	ms that are within the scope of the peri	mit application and are d	emons	strating co	mpliance using the pro	escriptive path outlined in 140.	6 / 170.2(e) oi
141.0(b)2 / 180.2(b)4 for alterations							
	e of Work	Co	nditio	ned Space	s	Unconditioned Spa	ices
141.0(b)2 / 180.2(b)4 for alterations Scop		02	onditio	oned Space	03	Unconditioned Spa 04	oces 05
Scop	oe of Work						
Scop	oe of Work 01	02			03	04	05
My Project Consists New Lighting System New Lighting System - Parking	oe of Work 01 s of (check all that apply):	02			03	04	05
My Project Consists New Lighting System	oe of Work 01 s of (check all that apply):	02	Metho	od	03	04	05
My Project Consists New Lighting System New Lighting System - Parking Altered Lighting System	oe of Work 01 s of (check all that apply):	Calculation N	Metho	od	03 Area (ft²)	04 Calculation Method	05 Area (ft²)
My Project Consists ☐ New Lighting System ☐ New Lighting System - Parking ☐ Altered Lighting System	oe of Work 01 s of (check all that apply): Garage	Calculation N	Metho Meth	od	03 Area (ft²)	04 Calculation Method Area Category Method	O5 Area (ft²) O

Indoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-I
Project Name: Stagg HS - Agricultural Mechanics Shop Renovation	Report Page: Date Prepared:	(Page 6 of 8 6/3/202
		-1-1
Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALT	ERATIONS	
his section does not apply to this project.		
. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEP	TIONS	
his section does not apply to this project.		
6. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)		
his section does not apply to this project.		
T. DWELLING UNIT LIGHTING		
T. DWELLING UNIT LIGHTING This section does not apply to this project.		
This section does not apply to this project.		
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.		icant, an explanation should be included in Table E.
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J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	ector during construction and can be found online	icant, an explanation should be included in Table E. Documentation Software: EnergyPro

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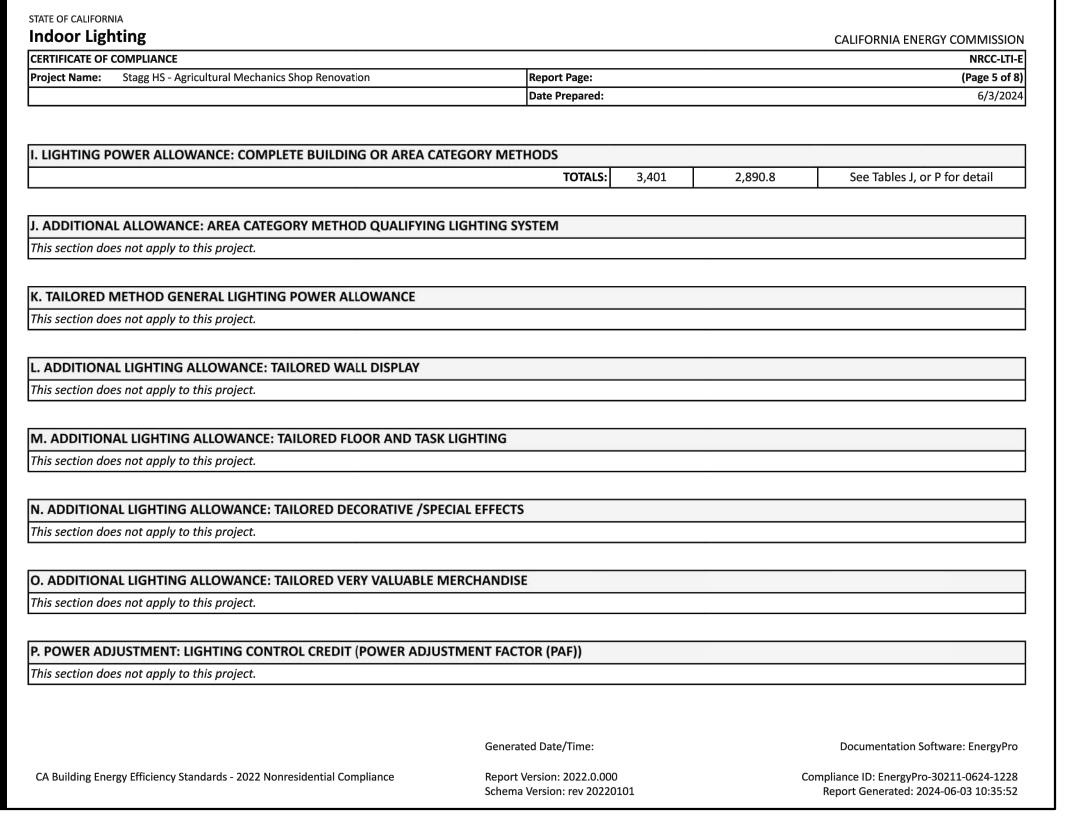
Report Version: 2022.0.000

Schema Version: rev 20220101

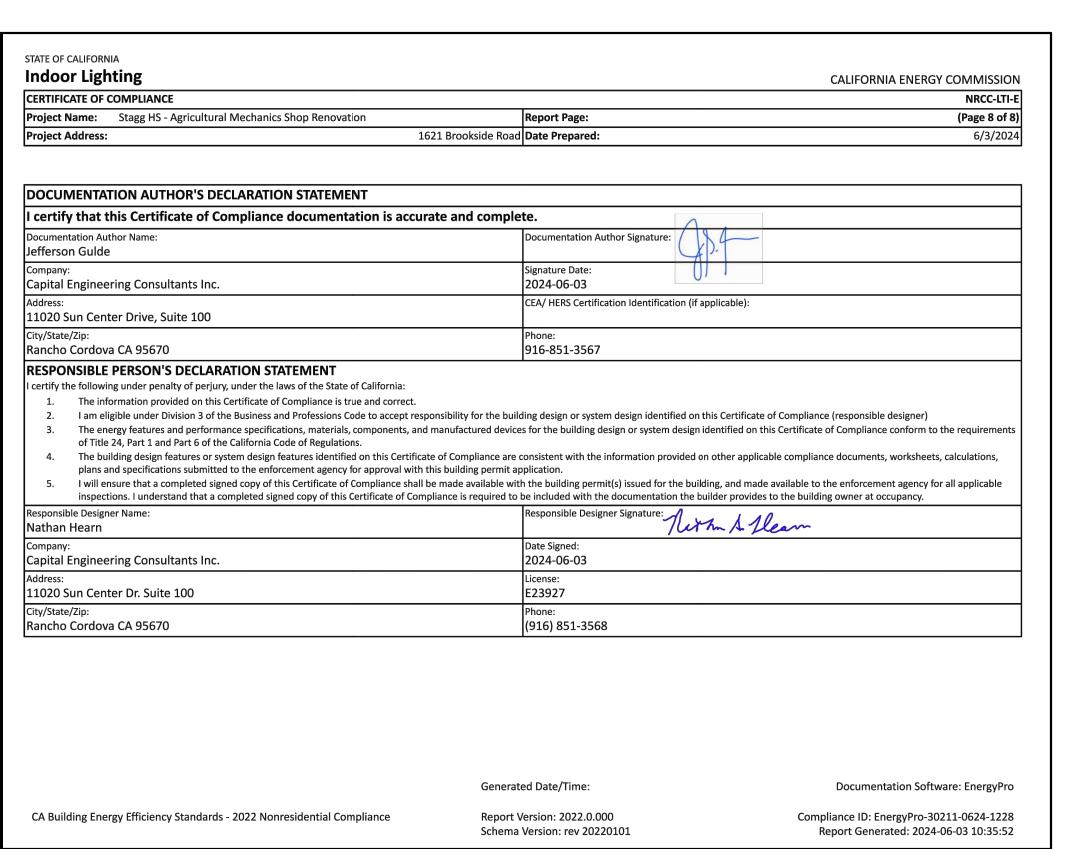
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

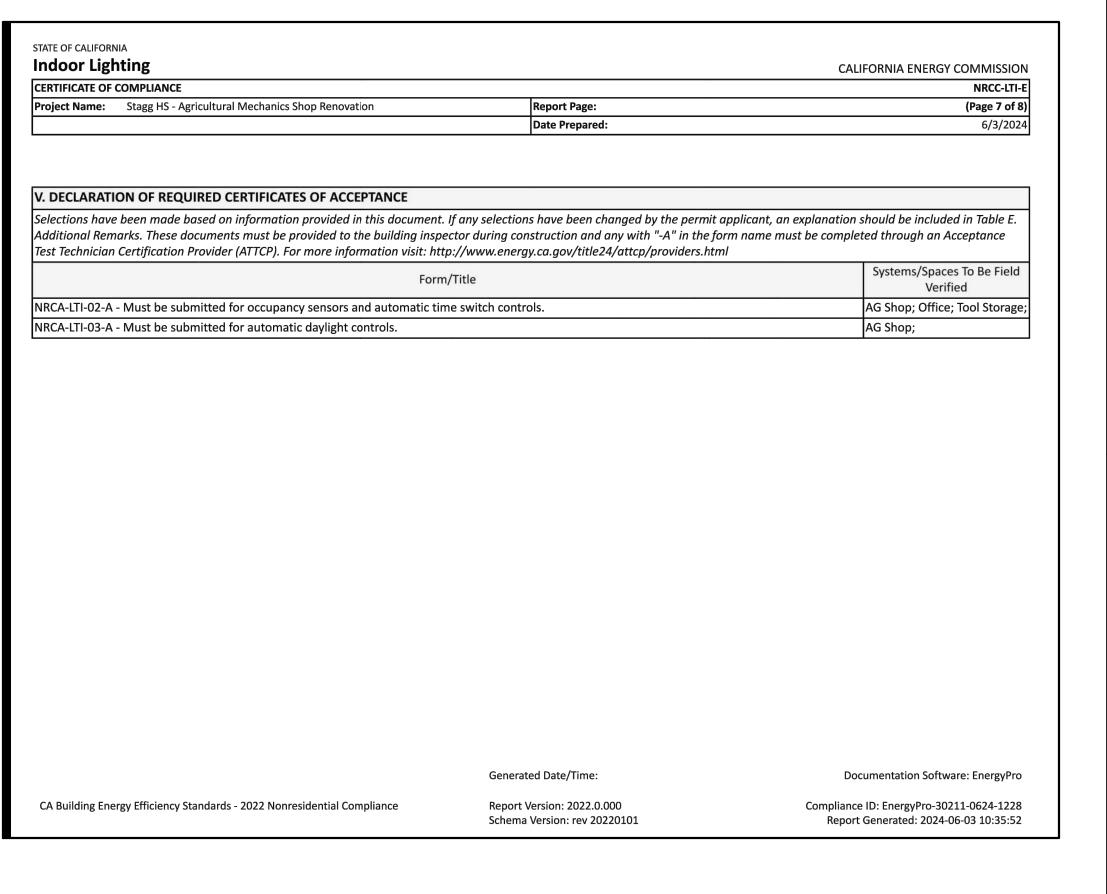
Documentation Software: EnergyPro

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



CERTIFICATE OF COMPLIANCE										
Project Name: Stagg HS - Ag	ricultural Mechanics Shop Renovation		Rep	ort Page:		·				(
			Date	Prepared:						
H. INDOOR LIGHTING CON	NTROLS (Not including PAFs)									
NA < 4	4,000W subject to multilevel			See	e Area/Spac	e Level Contro	ols			
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	130.	f Controls 1(c) // 5(b)4C	Primary/Sky lit Daylighting 130.1(d) /	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field	Ins
		100.5(8)4A	100.5(0)40			160.5(b)4D	100.5(0)40	170.2(6)2A	Pass	T
AG Shop	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupar	ncy Sensor	Included	Included	No		
Office	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupar	ncy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No		1
Tool Storage	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor		NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No		1
Electrical Room	Electrical Mechancial Telephone Room	Readily Accessible	NA: Enclosed area <100SF	NA: Elec.	equip. rm	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No		
	•		•	•				13		
							Plan Shee	t Showing Day	/lit Zones:	
	WANCE: COMPLETE BUILDING Concerns Complete Building or Area Catego 140.6(a) are being used .			200	s table. Colu	ımn 06 indica	tes if addition	nal lighting po	wer allow	and
01	02			03 04			05		06	
Area Description	Complete Building or A Function	VT- 7		ed Density V/ft²)	Area (ft²	1	ed Wattage Vatts)	Additional Area Cate	al Allowance / Ac	
Mechanics Shop	General Commercial II		Area	0.85	3,401	2,	890.8	No		
	•		Generated Da	ate/Time:		•		Documen	tation Softw	vare
	tandards - 2022 Nonresidential Complia	nco	Report Version	m· 2022 0 00	10		Co	mpliance ID: Er	nergyPro-30	211





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

DSA APP. NO: 02-122192



Sacramento, CA 95820 Phone: (916) 365-9655







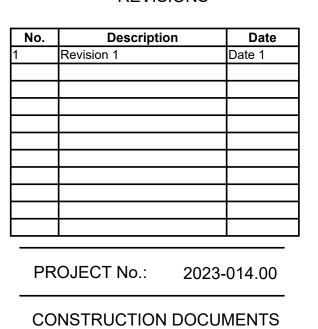
55 S LINCOLN STREET STOCKTON UNIFIED SCHOOL DISTRICT

STAGG HIGH SCHOOL AGRICULTURAL **MECHANICS SHOP RENOVATION**

1621 BROOKSIDE ROAD STOCKTON, CA 95207

STOCKTON UNIFIED SCHOOL DISTRICT

REVISIONS



TITLE 24

LTI FORMS

E6.1