PRIMARY YEARS ACADEMY PORTABLES

STOCKTON UNIFIED SCHOOL DISTRICT

DSA APP: 02-123245 **FILE NO: 39-H7**

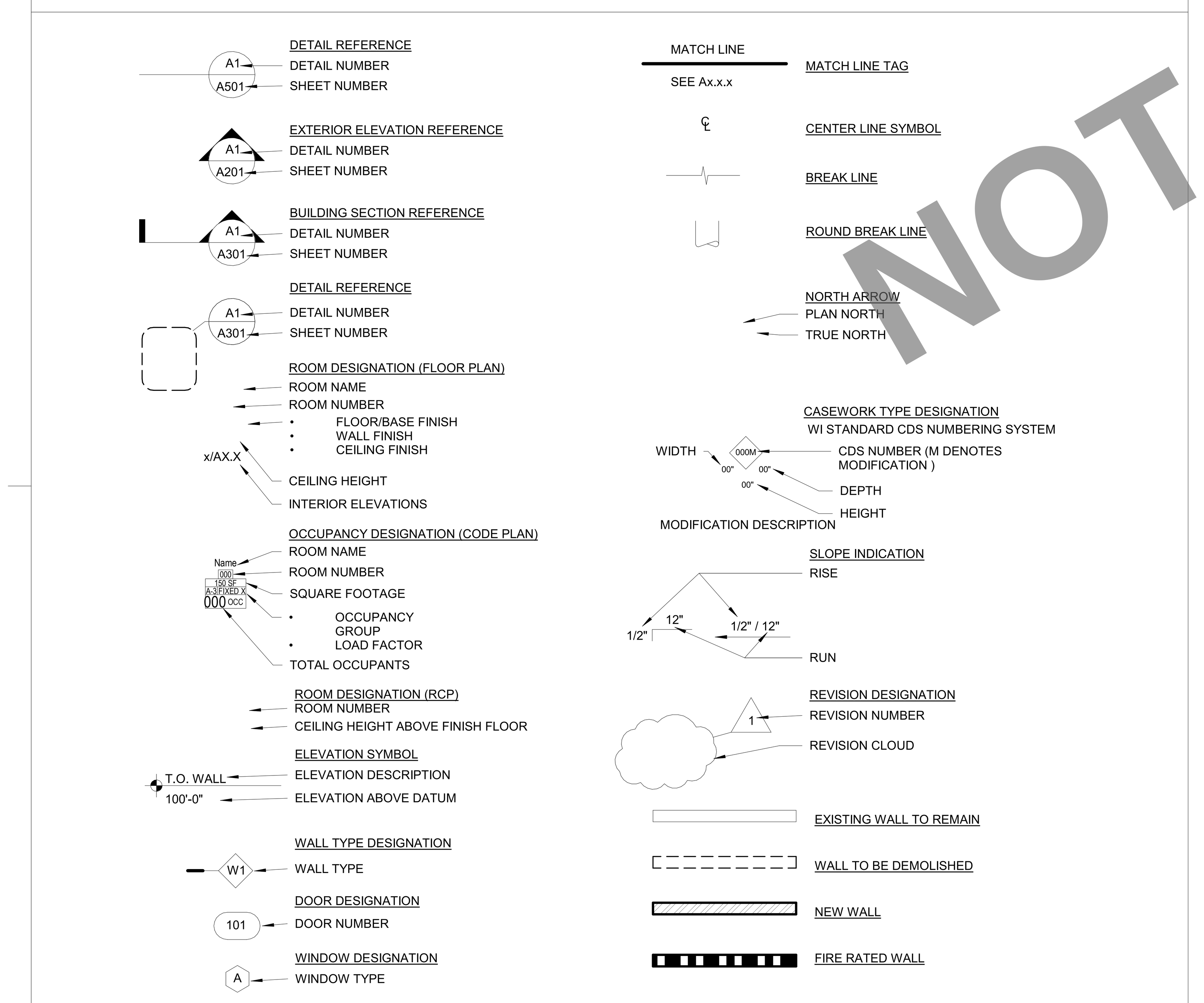
NOT FOR CONSTRUCTION

LIST OF ABBREVIATIONS

A	
A/C	AIR CONDITIONING
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ANOD	ANODIZED
ARCH	ARCHITECT
@	AT
B	
BD	BOARD
BLDG	BUILDING
BO	BOTTOM OF
C	
C	CELSIUS
CH	COAT HOOK
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CG	CORNER GUARD
CI	CONTINUOUS INSULATION
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CORR	CORRIDOR
CT	CERAMIC TILE
CTJ	CONSTRUCTION JOINT
CUH	CABINET UNIT HEATER
D	
D	DEEP
DEG	DEGREE
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DWGS	DRAWINGS
E	
EA	EACH
EJ	EXPANSION JOINT
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EOS	EDGE OF SLAB
ERD	EXISTING ROOF DRAIN
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
F	
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FDC	FIRE DEPARTMENT CONNECTION
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FG	FINISH GRADE
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FND	FOUNDATION
FO	FINISHED OPENING
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FRG	FIBER REINFORCED GYPSUM
FSP	FIRE STANDPIPE
FT	FEET
FV	FIELD VERIFY
G	
GA	GAUGE
GALV	GALVANIZED
GFRC	GLASS-FIBER-REINFORCED CONCRETE
GFRG	GLASS-FIBER-REINFORCED GYPSUM
GL	GLASS
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
H	HIGH
HB	HOSE BIBB
HDR	HEADER
HM	HOLLOW METAL
HPT	HIGH POINT
HR	HOUR
HT	HEIGHT
I	
ID	INSIDE DIAMETER; INSIDE DIMENSION
IN	INCH
INFO	INFORMATION
INT	INTERIOR
J	
JAN	JANITOR
K	(NOT USED)
L	
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LPT	LOW POINT
M	
MACH RM	MACHINE ROOM
MAX	MAXIMUM
MFR	MANUFACTURER
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MO	MASONRY OPENING
N	
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER; OUTSIDE DIMENSION
OFD	OVERFLOW DRAIN
OH DR	OVERHEAD DOOR
OPH	OPPOSITE HAND
OPP	OPPOSITE
ORIG	ORIGINAL
P	
P LAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PR	PAIR
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
R	
R	RISER OR RADIUS
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIGERATOR
REQD	REQUIRED
REV	REVISION
RH	RELATIVE HUMIDITY
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
RWL	RAIN WATER LEADER
S	
S	SMOKE DETECTOR
SAM	SELF ADHESIVE MEMBRANE
	SCHED SCHEDULE
SECT	SECTION
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
STS	SELF TAPPING SCREW
STRUCT	STRUCTURAL
T	
T	TREAD
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF SLAB; TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
TO	TOP OF
U	
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	
W/	WITH
W/O	WITHOUT
WD	WOOD
WH	WALL HYDRANT
WP	WORKING POINT
WRB	WEATHER RESISTIVE BARRIER
X,Y,Z	(NOT USED)

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET.

DRAWING SYMBOL LEGEND



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023*

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2017 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS *(PER 2022 CBC PART 2 CH 35)*
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)......................2022 EDITION
NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)....2019 EDITION
NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS...2021 EDITION
NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS..2021 EDITION
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION..................2019 EDITION
NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION..2019 EDITION
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED)...2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)....................................2022 EDITION
NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES...................................2019 EDITION
NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)............2018 EDITION
UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT..2005 (R2010)
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES...2003 EDITION
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS......................1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED...................................2002 (R2010)
ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS........2017 EDITION
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.
*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JULY 12, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 1, 2023

SCOPE OF WORK

PROJECT SCOPE INCLUDES:

PLACEMENT OF (8) CLASSROOM PORTABLES

SITE WORK INCLUDING BUT NOT LIMITED TO ACCESSIBLE PATH OF TRAVEL, CONCRETE WALKWAYS, AND OTHER ASSOCIATED SITE WORK AND UTILITIES.

THIS PROJECT REQUIRES A CLASS 3 PROJECT INSPECTOR

DEFERRED SUBMITTALS - NONE

FLOOD HAZARD
PROJECT SITE IS LOCATED IN FLOOD ZONE.............A

NOTE:
REMEDIATION FOR FLOODING IS REQUIRED SHOULD FEMA REJECT THE LOMAR THAT IS NECESSARY FOR RECLASSIFICATION OF THE SITE AS ZONE "X".

CLIMATE ZONE
PROJECT IS LOCATED IN CLIMATE ZONE.............12

PORTABLES ARE TO BE RELOCATED FROM STOCKPILE.
PROVIDE IN PLANT INSPECTION CARDS FOR ALL PORTABLES TO BE MOVED TO THIS SITE.

GENERAL NOTES

1. PROJECT MUST COMPLY WITH TITLE 24, PARTS 1-9 AND 12 IN ACCORDANCE WITH TITLE 24, PART 1, 4-305
2. CONTRACTOR TO BE IN COMPLIANCE WITH CFC CH. 33 - FIRE SAFETY DURING CONSTRUCTION & DEMOLITION.
3. TITLE 24, PARTS 1-5 MUST BE KEPT ON THE SITE DURING CONSTRUCTION.
4. CHANGES TO STRUCTURAL, ACCESSIBILITY OR FIRE LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN SECTION 4-338, PART 1, CAC, AND SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION IR A-6.
5. ALL ADDENDA MUST BE STAMPED AND SIGNED BY ARCHITECT/ENGINEER OF RECORD AND DELEGATED DESIGN PROFESSIONAL WHEN APPLICABLE, AND APPROVED BY DSA.
6. ALL SUBSTITUTIONS AND REQUESTS FOR INFORMATION (RFI'S) THAT AFFECT STRUCTURAL SAFETY, FIRE LIFE SAFETY, ACCESS COMPLIANCE OR ENERGY (AS APPLICABLE) SHALL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL AS A CONSTRUCTION CHANGE DOCUMENT.
7. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
8. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
9. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE CONSTRUCTION MANAGER BY THE MEANS OF A REQUEST FOR INFORMATION (RFI) OR AS PART OF THE APPLICABLE SHOP DRAWING / SUBMITTAL.
10. CONTRACTOR IS RESPONSIBLE FOR INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL AND/OR REINSTALLATION OF ALL EXISTING ITEMS, OR PORTIONS OF THE EXISTING CONSTRUCTION WHETHER SHOWN OR NOT.
11. ALL WORK SHALL BE IN COMPLETE CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OR AS OTHERWISE OUTLINED IN THE SPECIFICATIONS.
12. USE OF ANY MATERIALS CONTAINING LEAD OR ASBESTOS IS PROHIBITED.
13. THE TERM "TYPICAL" OR "(TYP.)" SHALL BE CONSTRUED TO MEAN APPLYING TO ALL LIKE OR SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
14. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

PROJECT TEAM

OWNER

STOCKTON UNIFIED SCHOOL DISTRICT
56 SOUTH LINCOLN STREET
STOCKTON, CA 95203

VICKIE BRUM
DIRECTOR OF FACILITIES AND PLANNING
(209) 933-7045
vbrum@stocktonusd.net

ARCHITECT

COMMUNITY ARCHITECTURE. INC
3701 BUSINESS DRIVE, SUITE 200
SACRAMENTO, CA 95820

CHARLES DANDY
ARCHITECT
(916) 365-9658
charles@commarch.net

CIVIL ENGINEER

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1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762

JIM STEPHENS
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ELECTRICAL ENGINEER

CAPITAL ENGINEERING
11020 SUN CENTER DRIVE
RANCHO CORDOBA, CA 95670

JOHN GUMAWID
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(916) 851-3500
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LANDSCAPE ARCHITECT

MTW GROUP
2707 K STREET, SUITE 201
SACRAMENTO, CA 95816

BRYAN WALKER
(916) 369-3990
bryan@mtwgroup.com

SHEET INDEX

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS / ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 02-123245 File No. 39-H7)
☒ The drawings or sheets listed on the cover or index sheet (signed by other than the Architect of Record)
☐ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) coordination with my plans and specifications and is acceptable for incorporation into the Construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and sections 4-336, 4-341 and 4-344" of title 24, part 1. (Title 24, Part 1, Section 4-317 (b)) I find that:

☒ All drawings or sheets listed on the cover or index sheet
☐ This drawing or page

☒ is/are in general conformance with the project design, and
☐ has/have been coordinated with the project plans and specifications.

[signature] Signature — 03-13-2025 Date

Architect or Engineer designated to be in general responsible charge

CHARLES DANDY (Name) — C32876 (License Number) — 03-31-2025 (Expiration Date)

DSA APP. NO: 02-123245

COMMUNITY ARCHITECTURE

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

LICENSED ARCHITECT
CHARLES ERIC DANDY
No. C32876
EXP 03/31/25
STATE OF CALIFORNIA

Stockton Unified School District
Since 1852
STOCKTON, CA 95203

PRIMARY YEARS ACADEMY PORTABLES

3830 WEBSTER AVE.
STOCKTON, CA 95204

REVISIONS

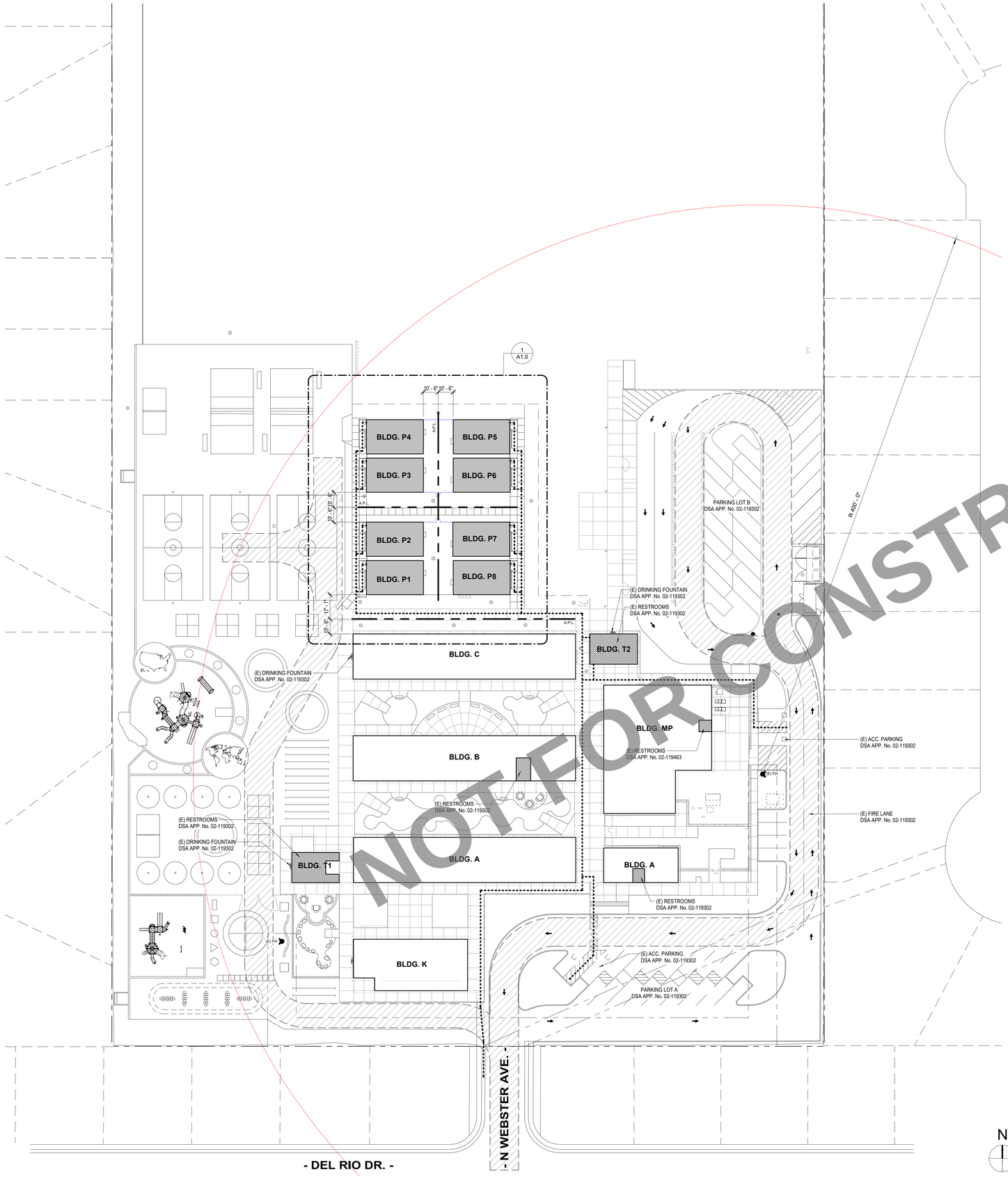
No.	Description	Date

PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

COVER SHEET

G0.1



CODE ANALYSIS SITE PLAN | 1" = 30'-0" | 1

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

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

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

PROJECT INFORMATION	
School District/Owner:	Stockton Unified School District
Project Name/School:	Primary Years Academy (PYA)
Project Address:	3830 Webster Ave, Stockton, CA 95204

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

California Water Service Company
Fire Flow Test
10/9/2024

Test Date: 10/09/2024 Time: 11:30
District STOCKTON Zone: 1 Plat: 28-24
Address: 3830 WEBSTER AVE
Cross Street: DEL RIO DR
Requested By: Cal Water
Conducted By: Nick McConnell
Purpose Of Test: Flow
Witnessed By: Calwater: Stephanie Baker
Others:

Outlet No.	Outlet Size	PITOT	Observed	Static Pressure	Residual Pressure	Flow Observed	Flow Avail. @20
Location 1 Hydrant No.: 55444			Address: 3830 Webster Avenue				
1	2.50	30	919	56	42	919	1530
2							
3							
4							
Location 2 Hydrant No.:-			Address:				
1							
2							
3							
4							
Location 3 Hydrant No.-			Address:				
1							
2							
3							
4							
			Total Flow Observed Available @20:			919	1530

Remarks: Tested hydrant # 55444, connected to 8" AC main, at 3830 Webster Ave. Time: 11:22am, while tank was NOT filling.

Static/Residual Location: Pressure reading taken from hydrant #55445, connected to 8" AC main at 3830 Webster A

Note:
Regardless of the results of this test, California Water Service Company assumes no liability beyond that stated in the following excerpt from the P.U.C. Tariff Schedule: "The utility (California Water Service Company) will supply only such water at such pressure as may be available from time to time as a result of its normal operation of the system."

ACCESS COMPLIANCE STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATES:

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

1. BEEN IDENTIFIED ON THESE PLANS
2. THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THE 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 LESS;
- WITH A CROSS SLOPE OF 1:48 (1/4"/FT.) OR LESS;
- WITH OPENINGS IN DRAINS AND GRATING NOT TO EXCEED ½" 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: 98 SPACES 3 ACCESS TOTAL 1 VAN ACCESS

REQ'D NO. OF ACCESSIBLE PARKING STALLS PER CBC TABLE 11B-208.2 =

NO. OF ACCESSIBLE PARKING PROVIDED = 3

REQ'D NO. OF VAN ACCESSIBLE PARKING STALLS PER CBC TABLE 11B-208.2.4 = 1

NO. OF VAN ACCESSIBLE PARKING PROVIDED = 1

SITE LEGEND

- ACCESSIBLE ROUTE
- APL — ASSUMED PROPERTY LINE
- EXISTING BUILDING
- NEW BUILDING
- (E) ACCESSIBLE TOILET ROOMS
- DF (E) ACCESSIBLE DRINKING FOUNTAIN

DSA CAMPUS SUMMARY

BLDG. ID	BLDG. USE	OCCUPANCY	CONST. TYPE	PAST DSA APP
(E) ADMIN	ADMINISTRATION	B	TYPE V-B	DSA #:02-119302
(E) BLDG. A	CLASSROOMS	E	TYPE V-B	DSA #:02-119302
(E) BLDG. B	CLASSROOMS	E	TYPE V-B	DSA #:02-119302
(E) BLDG. C	CLASSROOMS	E	TYPE V-B	DSA #:02-119302
(E) BLDG. K	CLASSROOMS	E	TYPE V-B	DSA #:02-119302
(E) BLDG. MP	CLASSROOMS	E	TYPE V-B	DSA #:02-119463
(E) BLDG. T1	RESTROOMS	E	TYPE V-B	DSA #:02-119302
(E) BLDG. T2	RESTROOMS	E	TYPE V-B	DSA #:02-119302
P1	CLASSROOM	E	TYPE V-B	DSA #:69217
P2	CLASSROOM	E	TYPE V-B	DSA #:69217
P3	CLASSROOM	E	TYPE V-B	DSA #:69217
P4	CLASSROOM	E	TYPE V-B	DSA #:69217
P5	CLASSROOM	E	TYPE V-B	DSA #:69217
P6	CLASSROOM	E	TYPE V-B	DSA #:69217
P7	CLASSROOM	E	TYPE V-B	DSA #:69217
P8	CLASSROOM	E	TYPE V-B	DSA #:69217

DSA APP. NO: 02-123245

COMMUNITY ARCHITECTURE
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Sacramento, CA 95820
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SUSD
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REVISIONS

No.	Description	Date

PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

CODE ANALYSIS AND SITE ACCESS

G1.1

GENERAL NOTES

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

811 Know what's below. Call before you dig.

2. WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. 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 ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.

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

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

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

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

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

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

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

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

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

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

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

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

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

20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB 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 HYDRO SEEDED 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.

GENERAL PAVING SURFACE NOTES:

1. PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.

2. ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
   - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL
   - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL
   - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS AND AT DOOR LANDINGS.

DEMOLITION GENERAL NOTES

1. 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.

2. NO BURNING OR BLASTING SHALL BE PERMITTED.

3. 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 TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN 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 DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.

7. 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 EXTEND.

8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.

10. EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.

CIVIL ABBREVIATIONS AND LEGEND

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

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

LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

PROPOSED GRADING & DRAINAGE SYMBOLS:

- 8" SD — STORM DRAIN LINE (SIZE AND FLOW SHOWN)
- STORM DRAIN MANHOLE (SDMH)
- CATCH BASIN (CB)
- DROP INLET (DI)
- AREA DRAIN (AD)
- PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
- CO — STORM DRAIN CLEANOUT
- 99.99 — ELEVATION
- FF=100.00 — FINISHED FLOOR ELEVATION
- PAD=99.33 — BUILDING PAD ELEVATION
- CONCRETE SIDEWALK
- GRADED DIRECTION FOR DRAINAGE FLOW
- SWALE
- SLOPE
- TREE TO BE REMOVED
- RETAINING WALL

PROPOSED SANITARY SEWER SYMBOLS:

- 6" SS — SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
- SANITARY SEWER MANHOLE (SSMH)
- CO — SEWER CLEANOUT FLUSHER BRANCH

PROPOSED WATER SYMBOLS:

- 8" W — WATER LINE & SIZE
- 8" FS — FIRE LINE & SIZE
- 8" DW — DOMESTIC WATER LINE & SIZE
- 8" RW — RECLAIMED WATER LINE & SIZE
- 8" IRR — IRRIGATION SERVICE LINE & SIZE
- 8" NP — NON POTABLE WATER LINE & SIZE
- 8" SP — FIRE SPRINKLER SERVICE LINE & SIZE
- GATE VALVE
- M — WATER METER
- FH — FIRE HYDRANT ASSEMBLY
- FDC — FIRE DEPARTMENT CONNECTION
- DC — DETECTOR CHECK VALVE
- DDC — DOUBLE DETECTOR CHECK VALVE
- RP — REDUCED PRESSURE BACKFLOW PREVENTER
- BUTTERFLY VALVE
- 1" — AIR RELEASE VALVE + SIZE
- 1" — BLOW-OFF VALVE + SIZE
- PIV — POST INDICATOR VALVE

SHEET INDEX

CONCRETE SAWCUT NOTE

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.

UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, LOCATE AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

DSA APP. NO: 02-123245

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

LICENSED ARCHITECT — CHARLES ERIC DANDY — No. C32876 — EXP. 03/31/26 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — ANTHONY J. TASSANO — No. C74696 — STATE OF CALIFORNIA

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SUSD — Stockton Unified School District — Since 1852

PRIMARY YEARS ACADEMY PORTABLES

3830 WEBSTER AVE.
STOCKTON, CA 95204

REVISIONS

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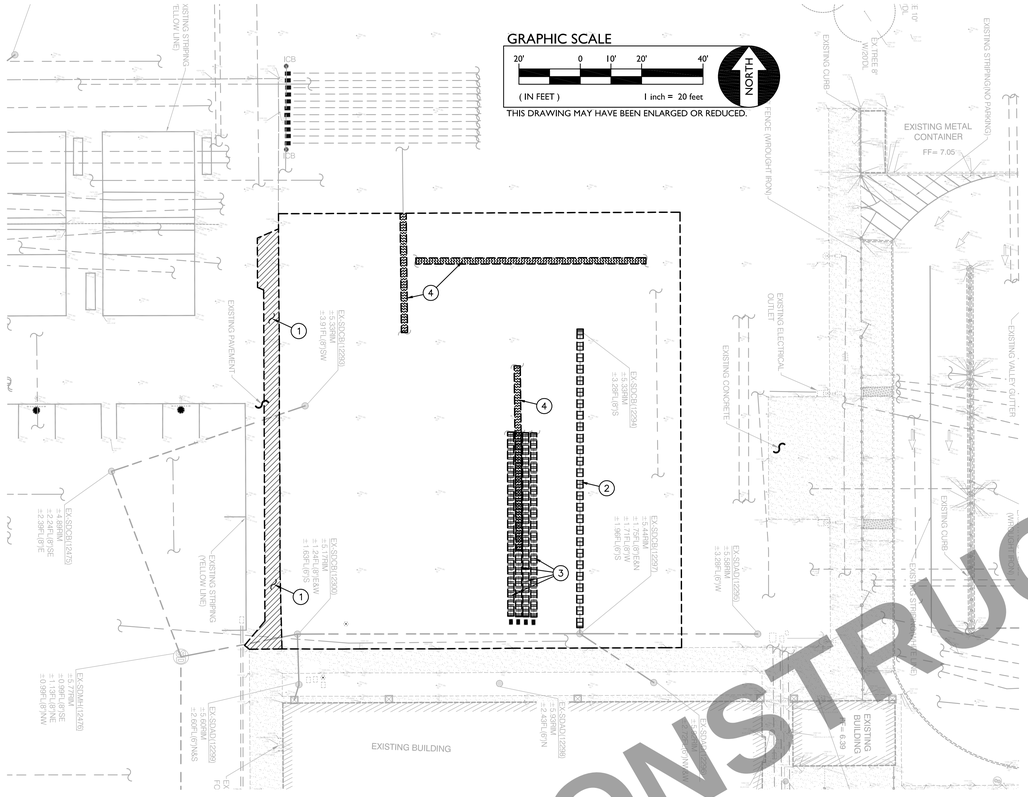
PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

CIVIL GENERAL NOTES AND ABBREVIATIONS

C0.1



DEMOLITION NOTES

1. REMOVE EXISTING ASPHALT PAVING AND AGGREGATE BASE. WHERE SAWCUT EDGES ARE SHOWN, THEY SHALL BE A NEAT STRAIGHT LINE. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED.
2. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE AND STRUCTURES.
3. REMOVE AND DISPOSE OF IRRIGATION LINES. SEE LANDSCAPE PLANS FOR FURTHER INFORMATION.
4. REMOVE AND DISPOSE OF ELECTRICAL LINES. SEE ELECTRICAL PLANS FOR FURTHER INFORMATION.

DEMOLITION GENERAL NOTES

A. THE CONTRACTOR SHALL CONFORM TO CHAPTER 33, CALIFORNIA FIRE CODE (CFC), "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, AT ALL TIMES DURING THE CONSTRUCTION PROCESS. A COPY OF THIS CHAPTER CAN BE PROVIDED TO THE CONTRACTOR AT HIS REQUEST.

B. 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.

C. NO BURNING OR BLASTING SHALL BE PERMITTED.

D. 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 DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT AND MEMBERS OF USA TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS. CALL USA TOLL FREE AT 1-800-227-2600.

E. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, UTILITY, LANDSCAPE PLANS AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.

F. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.

G. ALL DISPOSED MATERIALS SHALL BE RECYCLED IF POSSIBLE.

H. ALL TRENCHING THROUGH EXISTING ASPHALT PAVEMENT, CONCRETE OR LANDSCAPES SURFACES SHALL BE REMOVED AND REPLACED BACK TO ORIGINAL THICKNESS AND SURFACE.

I. ALL EXISTING SURFACE-SUBSTRATE ADJACENT TO ITEMS OF WORK SHALL BE RESTORED TO ORIGINAL CONDITION.

J. ALL TURF AREAS DISTURBED SHALL BE REPLACED WITH SOD.

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No. C32876
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REGISTERED PROFESSIONAL ENGINEER
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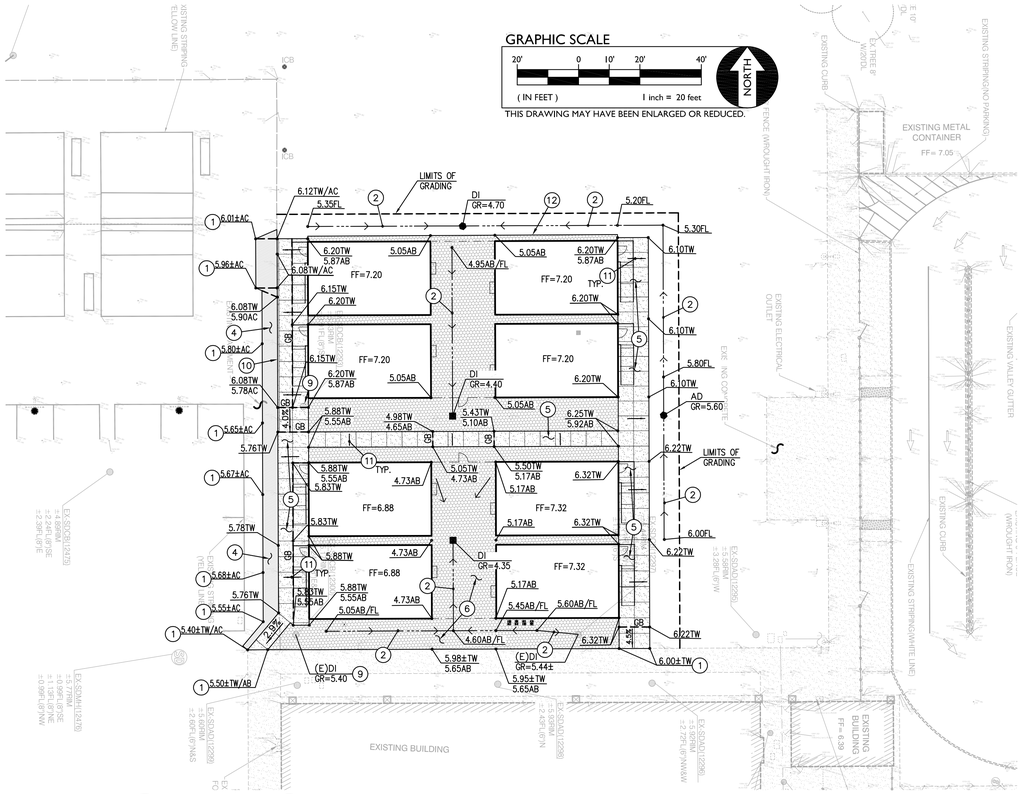
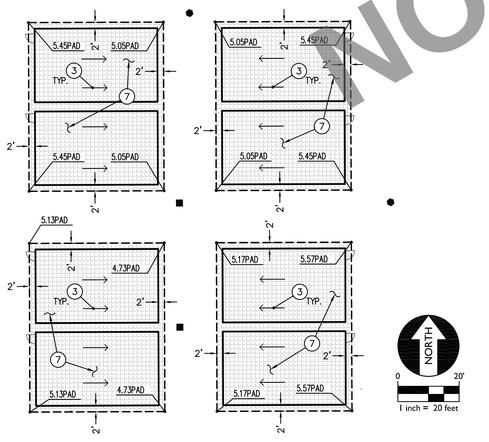
CONSTRUCTION DOCUMENTS

DEMOLITION PLAN

C1.1



GRADING PLAN



PAD GRADING PLAN

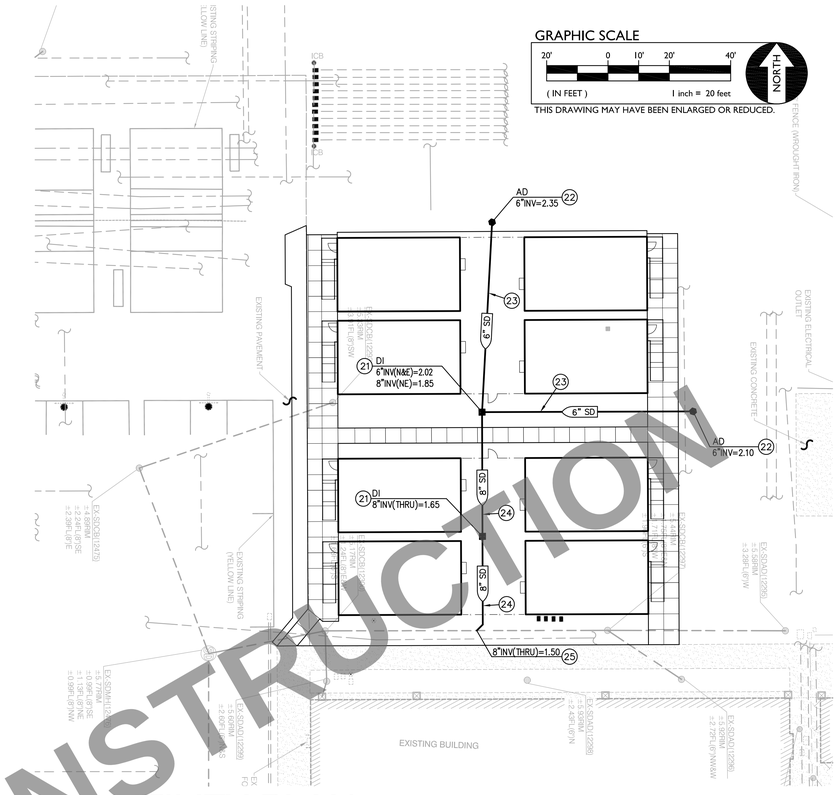
GRADING NOTES

1. MATCH EXISTING GRADE/ELEVATION.
2. CONSTRUCT SWALE. CROSS SLOPE IN SWALE 10:1 MAX.
3. GRADE UNIFORMLY BETWEEN GRADES.
4. PLACE 2.5" AC OVER 10" CLASS II AB ON SUBGRADE COMPACTED PER SPECIFICATIONS.
5. PLACE 5" PCC WITH #4 REBAR @ 24" O.C.E.W. OVER 12" CLASS II AB ON SUBGRADE COMPACTED PER SPECIFICATIONS. (1 / C3.1)
6. PLACE 6" CLASS II AB ON SUBGRADE COMPACTED PER SPECIFICATIONS.
7. PLACE 12" CLASS II AB ON SUBGRADE COMPACTED PER SPECIFICATIONS.
8. CONSTRUCT HEADER BOARD PER. (3 / C3.1)
9. ADJUST FRAME AND GRATE TO ELEVATION SHOWN.
10. CONSTRUCT CONCRETE CURB PER. (2 / C3.1)
11. PEDESTRIAN FLATWORK SHALL BE SLOPED PER THE PEDESTRIAN PATHS OF TRAVEL NOTE THIS SHEET.

PEDESTRIAN PATHS OF TRAVEL

ALL NEW PEDESTRIAN WALKWAYS SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:

- NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
- NO GREATER THAN 2% SLOPE PERPENDICULAR TO THE PATH OF TRAVEL.
- NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.



UTILITY PLAN

DRAINAGE NOTES

21. CONSTRUCT DRAIN INLET PER (4 / C3.1)
22. CONSTRUCT AREA DRAIN PER (5 / C3.1)
23. PLACE 6" STORM DRAIN PER (6 / C3.1)
24. PLACE 8" STORM DRAIN PER (6 / C3.1)
25. CONNECT TO EXISTING STORM DRAIN PIPE. POTHOLE TO VERIFY DEPTH AND LOCATION PRIOR TO TRENCHING.
26. PLACE CONCRETE SPLASH BLOCK AT BASE OF DOWNSPOUT.

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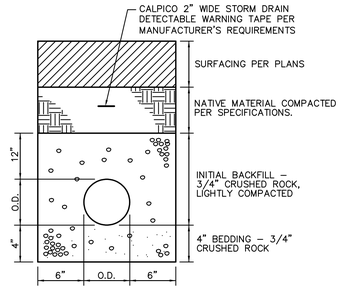
PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

GRADING AND UTILITY PLAN

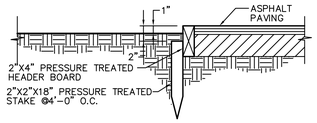
C2.1

FILENAME: I:\24-100\CIVIL\DWG\24-100.1 C2.1.DWG



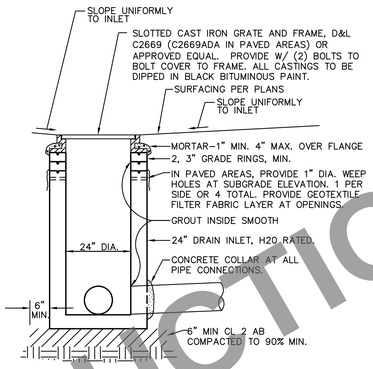
6 C3.1 STORM DRAIN/SANITARY SEWER TRENCH

NO SCALE



3 C3.1 HEADER BOARD

NO SCALE

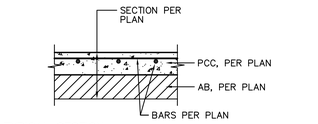


4 C3.1 DROP INLET

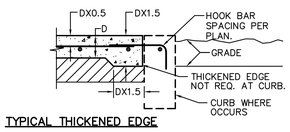
NO SCALE

5 C3.1 AREA DRAIN

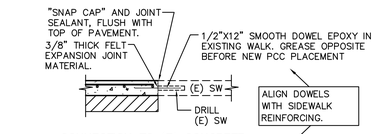
NO SCALE



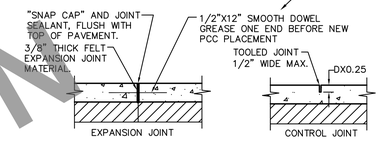
TYPICAL SECTION



TYPICAL THICKENED EDGE



CONNECTION TO (E) CONCRETE

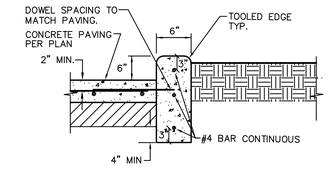


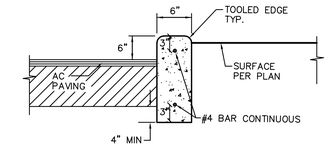
TYPICAL JOINTS

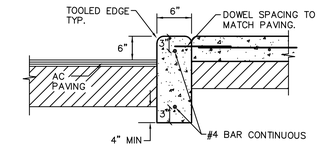
NOTES:
1. PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MIN.
2. PROVIDE CONTROL JOINTS AT 10 FEET O.C. MIN.
3. EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

1 C3.1 CONCRETE SIDEWALK

NO SCALE







NOTES:
1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. MAXIMUM PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM, EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
2. AT E.J. USE 1/2"X24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

2 C3.1 CONCRETE CURB

NO SCALE

DSA APP. NO: 02-123245

COMMUNITY ARCHITECTURE
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LICENSED ARCHITECT CHARLES ERIC DANDY No. C32876 EXP. 03/31/25 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO No. C74696 STATE OF CALIFORNIA

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

SUSD Stockton Unified School District Since 1852

PRIMARY YEARS ACADEMY PORTABLES

3830 WEBSTER AVE.
STOCKTON, CA 95204

REVISIONS

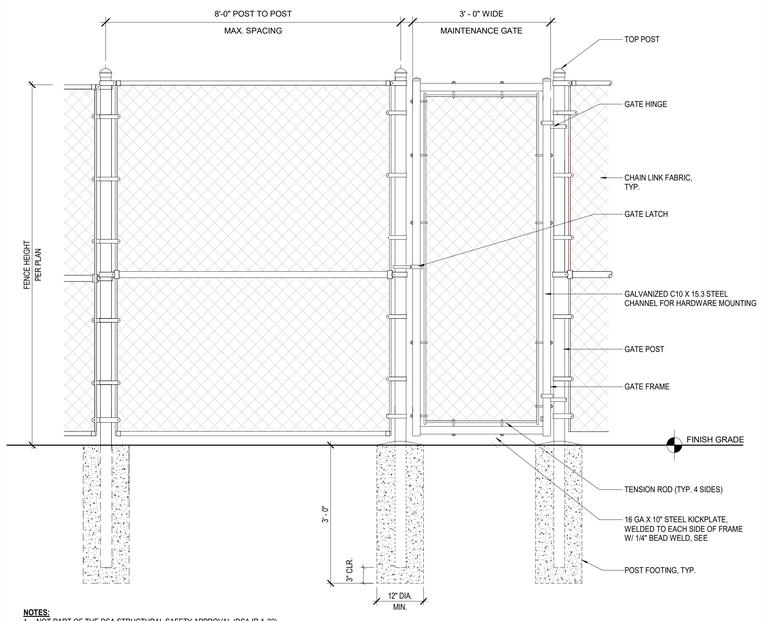
No.	Description	Date

PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

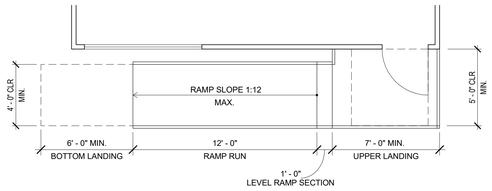
DETAILS

C3.1

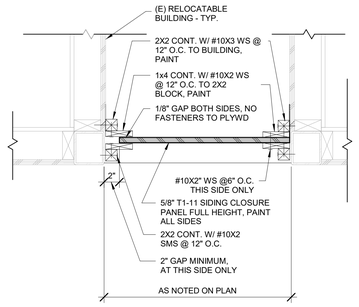


NOTES:
1. NOT PART OF THE DSA STRUCTURAL SAFETY APPROVAL (DSA IR A-22)
2. CHAIN LINK GATE POST SIZE, DIAMETER PER DIVISION 32, SECTION "CHAIN LINK FENCING AND GATES"

CHAIN LINK FENCE AND GATE ELEVATION — 3/4" = 1'-0" — 6

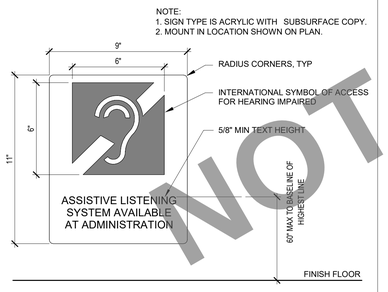


ACCESSIBLE RAMP PLAN — 1/4" = 1'-0" — 7

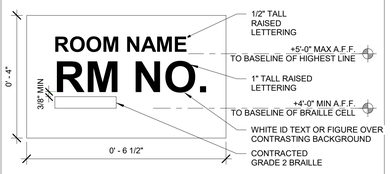


CLOSURE PANEL DETAIL — 1 1/2" = 1'-0" — 5

NOTE:
1. SIGN TYPE IS ACRYLIC WITH SUBSURFACE COPY.
2. MOUNT IN LOCATION SHOWN ON PLAN.

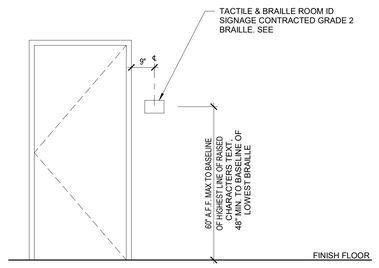


ASSISTED LISTENING SIGN (S2) — 3" = 1'-0" — 4

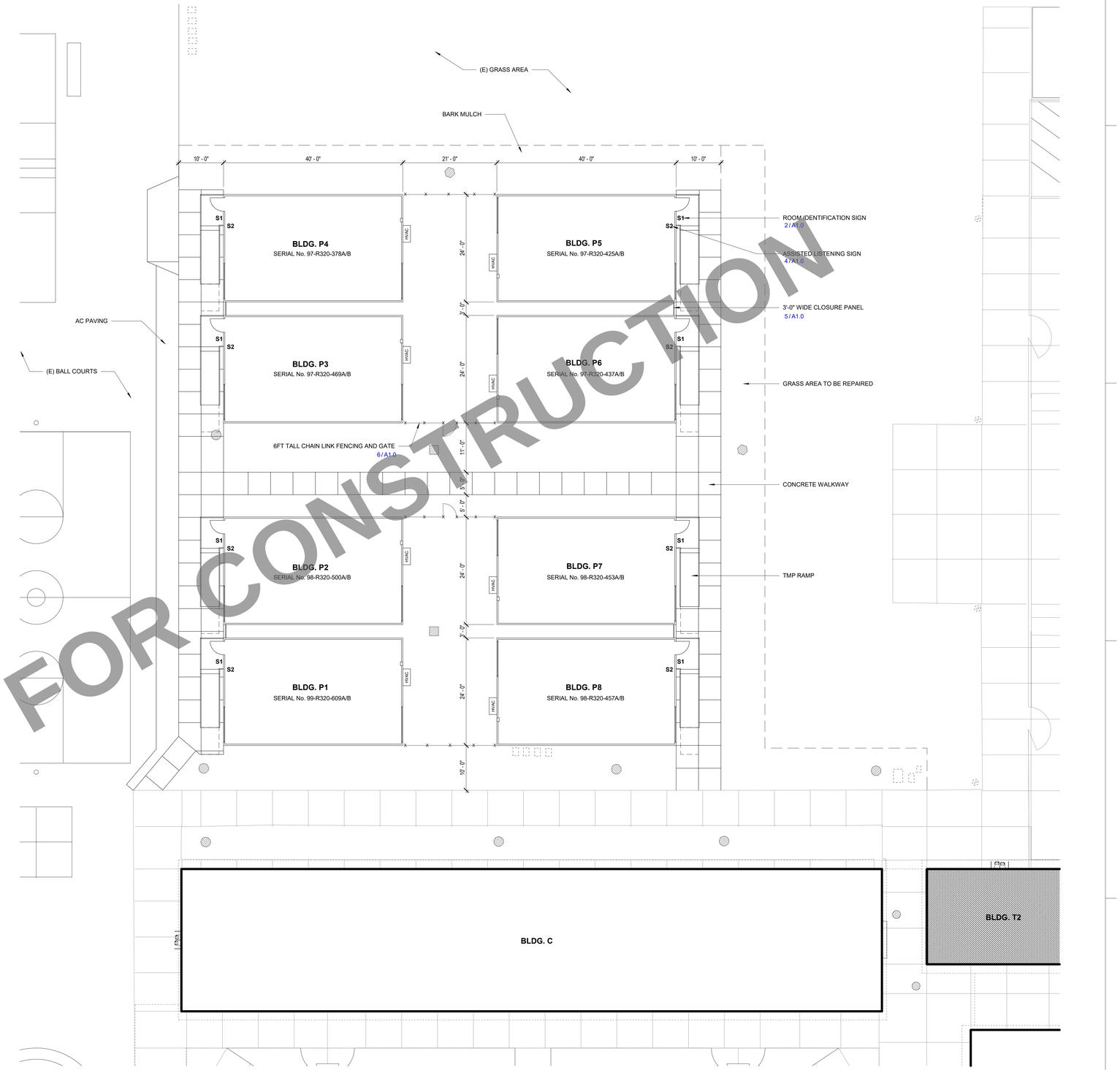


NOTES:
1. ALTERNATIVE SIGN SIZES AND CONFIGURATIONS MAY BE APPROVED BY THE ARCHITECT PRIOR TO CONSTRUCTION. ALL PROPOSED SUBSTITUTIONS MUST MEET THE RECRUITMENTS OF THE CBC AS OUTLINED ABOVE.
2. REFER TO 5/G1.1 FOR SIGNAGE LOCATION.

ROOM IDENTIFICATION SIGN (S1) — 6" = 1'-0" — 2



SIGNAGE — 1/2" = 1'-0" — 3



PARTIAL SITE PLAN — 1" = 10'-0" — 1

DSA APP. NO: Approver

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LICENSED ARCHITECT
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REVISIONS

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CONSTRUCTION DOCUMENTS

PARTIAL SITE PLAN & DETAILS

A1.0

ELECTRICAL ABBREVIATION

ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
(D)	DEMOLISH
DN	DOWN
(E)	EXISTING
EF	EXHAUST FAN
ECH	ELECTRIC CONVECTION HEATER
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
N/A	NOT APPLICABLE
(N)	NEW
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PHP	PACKAGED HEAT PUMP
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	GENERAL
X / X	DETAIL NUMBER AND SHEET LOCATION
	NEW WORK
XX-X LOCATION	EQUIPMENT IDENTIFICATION
1	KEYED NOTE
	LIGHTING
	CEILING FAN
	EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE
	SURFACE OR PENDANT MOUNTED LUMINAIRE
	SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
	WALL MOUNTED LUMINAIRE
	BOLLARD
	MISCELLANEOUS
#10 B-27,29,31, B-27,29,31,	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	CURRENT TRANSFORMER
M	DIGITAL TYPE METER WITH VOLTMETER, AMMETER, KW METER, KVA METER, KVAR METER, AND %THD METER
	EQUIPMENT CONNECTION ITEM. REFER TO SCHEDULE
	FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
	FLUSH WALL MOUNTED BRANCH PANEL
	GROUND ROD
	GROUNDING POINT
	LANDING LUG
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
M	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED

ELECTRICAL LEGEND

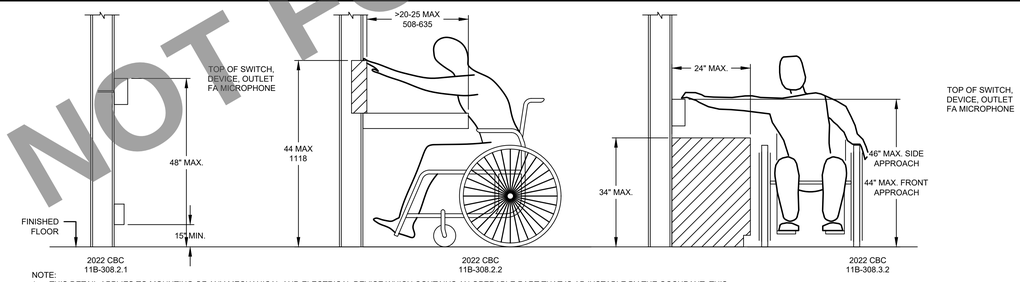
SYMBOL	DESCRIPTION
UT	UTILITY TRANSFORMER PAD/VAULT
	WALL MOUNTING BRACKET
	WATER PIPE GROUND CONNECTION
	CONNECTIONS / EQUIPMENT
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
T	TRANSFORMER
M	DOORBELL - NUTONE #LA11WH +7'-6"
	DOORBELL PUSH BUTTON
	ENCLOSED CIRCUIT BREAKER
	RACEWAYS
	CONDUIT CONCEALED IN WALL OR CEILING SPACE
	CONDUIT ROUTED BELOW FLOOR / GRADE
	CATV ROUTED BELOW FLOOR / GRADE
	TEL/DATA ROUTED BELOW FLOOR / GRADE
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	CONDUIT/WIRING CONTINUATION
	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
	FLEXIBLE CONDUIT
	TELEPHONE BACKBOARD
	TELECOMMUNICATIONS
▽	RACEWAY ONLY DATA OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE OR DOUBLE GANG ADAPTER PLATE (VERIFY) WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. SEE LETTER CODE LIST AT DATA/TELEPHONE OUTLET FOR OPTIONS.
▽	RACEWAY ONLY DATA/TELEPHONE OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE OR DOUBLE GANG ADAPTER PLATE (VERIFY) WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER C = CEILING MOUNTED ABOVE ACCESSIBLE CEILING F = FLUSH CEILING MOUNTED R = SURFACE MOUNTED ON RACEWAY
▼	RACEWAY ONLY TELEPHONE OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE OR DOUBLE GANG ADAPTER PLATE (VERIFY) WITH 3/4" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. SEE LETTER CODE LIST AT DATA/TELEPHONE OUTLET FOR OPTIONS.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	SWITCHES AND RECEPTACLES
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER B = CLOCK HANGER C = FLUSH CEILING MOUNTED 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
	SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH
D	MANUAL DIMMER WITH ON/OFF OVERRIDE
DOS	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR WITH DIMMER AND MANUAL ON/OFF OVERRIDE
	DUPLEX RECEPTACLE, FLUSH FLOOR
OS	CEILING MOUNTED OCCUPANCY SENSOR (SELF CONTAINED)
DS	CEILING MOUNTED DAYLIGHTING SENSOR
XX-X (SEE SCHEDULE)	MOTOR / ELECTRICAL EQUIPMENT

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

MOUNTING OVER OBSTRUCTION DETAIL



NOTE:
1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

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

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

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUITS TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL 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 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 #) #

AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS

SHEET INDEX

DSA APP. NO: 02-123245

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Phone: (916) 365-9655

LICENSED ARCHITECT CHARLES ERIC DANDY No. C32876 EXP. 03/31/26 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JOHN D. GUMPERT E 24187 EXPIRES 9/30/26 ELECTRICAL STATE OF CALIFORNIA

DATE SIGNED:

capital engineering
RANCHO CORDOVA, CALIFORNIA

JPG - RK, EM 240488
PM - DESIGN TEAM PROJECT NO.

SUSD Stockton Unified School District Since 1852
STOCKTON, CA 95203

PRIMARY YEARS ACADEMY PORTABLES

3830 WEBSTER AVE.
STOCKTON, CA 95204

REVISIONS

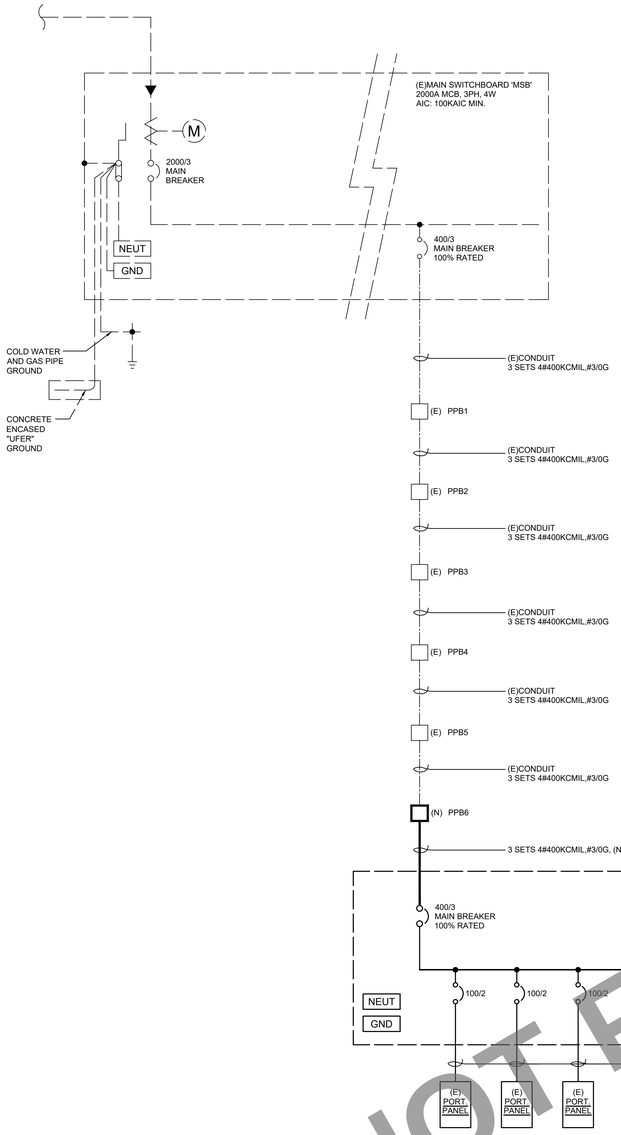
No.	Description	Date

PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

ELECTRICAL COVER SHEET

E0.1



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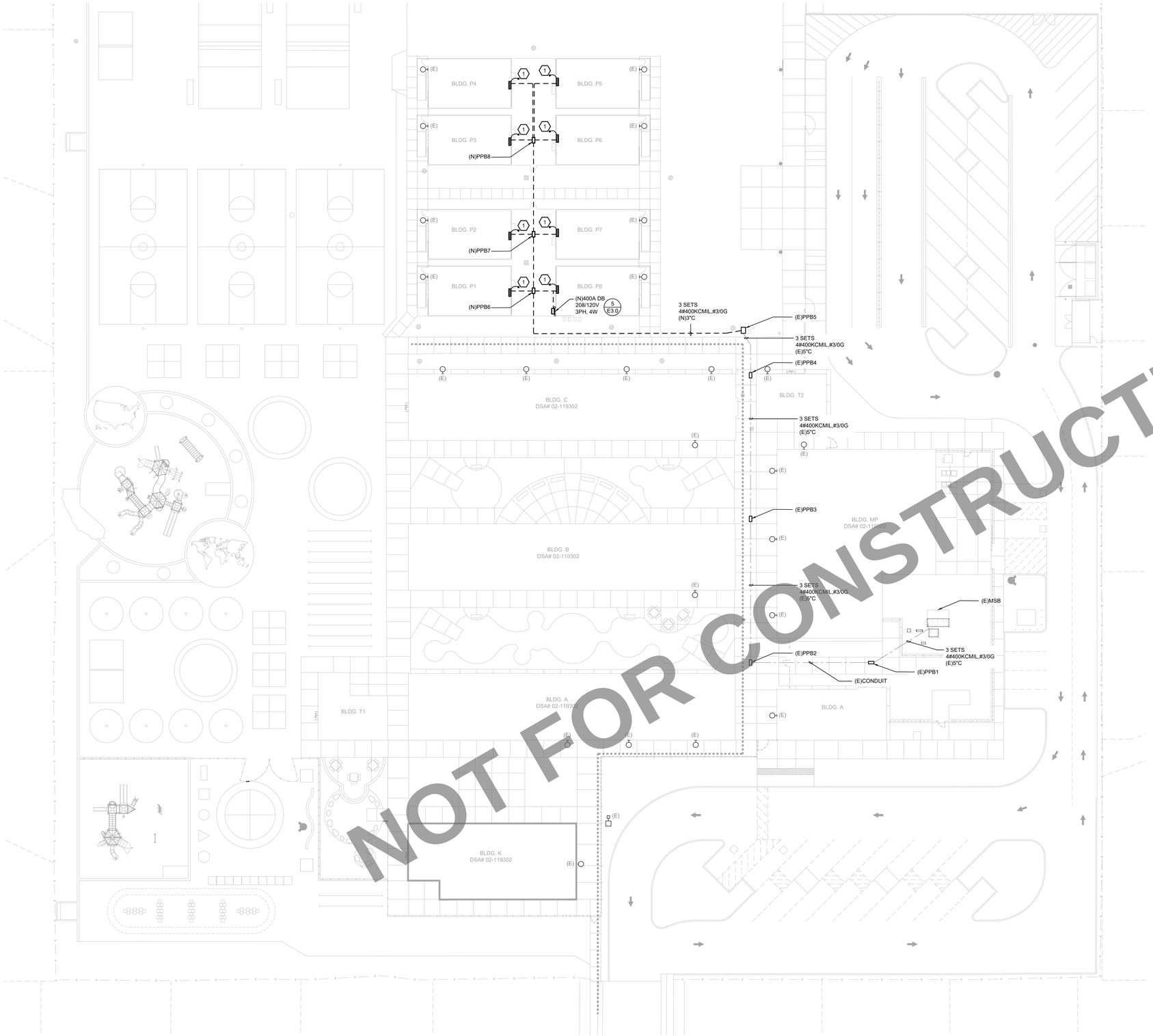
CONSTRUCTION DOCUMENTS

ELECTRICAL ONE-LINE DIAGRAM

E0.2



KEY NOTES:

1 PROVIDE GROUND BOX PER DETAIL 2/E3.0. CONNECT GROUND ROD TO THE PANELBOARD PER DETAIL 1/E3.0.

ELECTRICAL SITE PLAN

SCALE : 1" = 20'-0"

1 / E1.0

N

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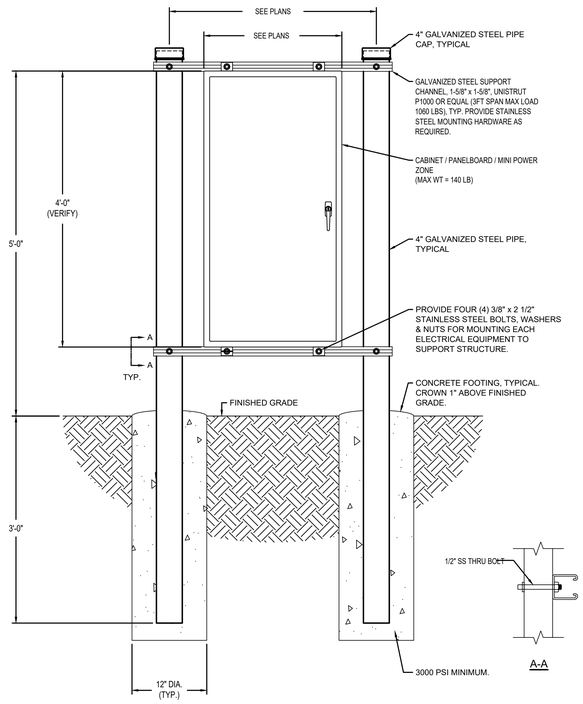
CONSTRUCTION DOCUMENTS

ELECTRICAL SITE PLAN

E1.0

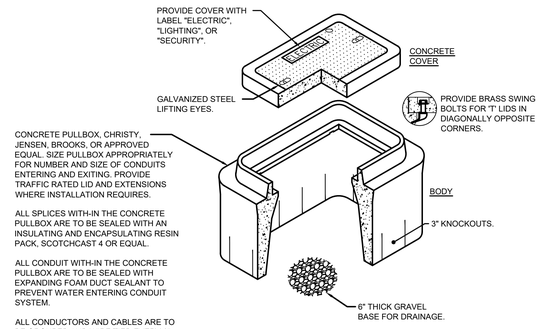


ELEVATION

TYPICAL EQUIPMENT MOUNTING STAND

SCALE : NO SCALE

5 / E3.0



TYPICAL CONCRETE PULLBOX DETAIL

SCALE : NO SCALE

4 / E3.0

NOTES:

1. TRENCHING LOCATED IN PAVED AREAS - ALL EARTHWORK AND REPAIR SHALL BE IN ACCORDANCE WITH AGENCY THAT HAS JURISDICTION.
2. ALL UTILITY TRENCHES ARE TO BE IN CONFORMANCE WITH CBC SECTION 1809A.14 (UTILITIES NOT TO BE PLACED UNDER INFLUENCE LINE OF FUTURE/EXISTING FOOTINGS PER CBC SECTION ABOVE (A LINE 1 VERTICAL, 2 HORIZONTAL, 9 INCHES ABOVE BOTTOM EDGE OF FOOTING)).

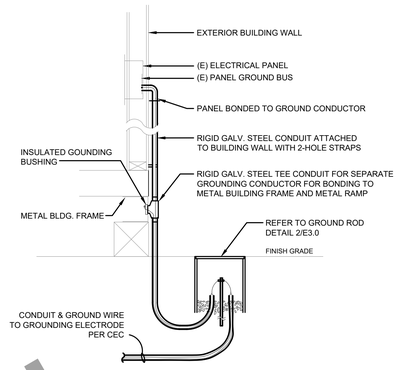
TYPICAL TRENCH DETAIL

SCALE : NO SCALE

3 / E3.0

RELOCATABLE BUILDING GROUNDING NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.94, AND AS INDICATED ON ONE LINE DIAGRAM, WHICHEVER IS LARGER.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME, (CEC 250.81). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10-FT OR MORE, AS WELL AS STEEL RAMPS, IF AVAILABLE (CEC 250.81 & 250.83).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER WITH A #4 BONDING JUMPER. BOLTING ONLY IS NOT ACCEPTABLE BONDING.
4. WHERE SURFACE MATERIAL TO BE GROUNDED IS PAINTED, BOLTED CONNECTION IS NOT AN ACCEPTABLE BOND. CONTRACTOR SHALL PROVIDE BONDING VIA CADWELD PROCESS AS REQUIRED.
5. GROUND RESISTANCE SHALL BE TESTED BY AN INDEPENDENT TESTING COMPANY WITH A MEGGER UNIT OR AN OTHERWISE ACCEPTABLE METHOD BY THE DSA INSPECTOR OF RECORD. IF RESISTANCE TO GROUND IS TESTED TO EXCEED 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED BY MINIMUM 6-FEET AND RETEST AS REQUIRED.
6. ALL WORK AS SHOWN ON THE GROUNDING DETAIL AND AS STATED HEREIN, WHETHER SHOWN OR NOT ON ELECTRICAL DRAWINGS, SHALL BE DONE BY THE SITE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACT.



PORTABLE GROUNDING DETAIL

SCALE : NO SCALE

1 / E3.0

TYPICAL CONCRETE GROUND ROD DETAIL

SCALE : NO SCALE

2 / E3.0

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CONSTRUCTION DOCUMENTS

ELECTRICAL DETAILS

E3.0

GENERAL NOTES

1. THE FIRE ALARM SYSTEM SHALL COMPLY WITH A TOTAL COVERAGE FULLY AUTOMATIC SYSTEM. DETECTORS SHALL BE INSTALLED IN ALL AREAS WHERE REQUIRED BY THE APPROPRIATE NFPA STANDARD OR THE AUTHORITY HAVING JURISDICTION. EACH INSTALLED DETECTOR SHALL BE ACCESSIBLE FOR PERIODIC MAINTENANCE AND TESTING. PROVIDE ACCESS DOORS AS REQUIRED. TOTAL COVERAGE SHALL INCLUDE ALL ROOMS, STORAGE AREAS, ATTICS, SPACES ABOVE SUSPENDED CEILINGS, AND OTHER SUBDIVISIONS AND ACCESSIBLE SPACES. INACCESSIBLE AREA SHALL NOT BE REQUIRED TO BE PROTECTED BY DETECTORS UNLESS THEY CONTAIN COMBUSTIBLE MATERIAL, IN WHICH CASE THEY SHALL BE MADE ACCESSIBLE AND BE PROTECTED BY DETECTOR(S).
2. THE FIRE ALARM SYSTEM IS AN ADDRESSABLE SYSTEM.
3. THE AUTOMATIC FIRE ALARM SYSTEM SHALL COMPLY WITH SENATE VOTE BILL NO. 575 (SB575) & CBC 907.2 FOR NEW CONSTRUCTION PROJECTS.
4. THE FIRE ALARM SYSTEM IS A COMPLETE SUBMITTAL.
5. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA BUILDING CODE (CBC) SECTION 907, THE CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760 AND THE CALIFORNIA FIRE CODE (CFC) SECTION 907. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DIVISION OF THE STATE ARCHITECT (DSA) INSPECTOR OF RECORD.
6. PROVIDE COMPLETE SYSTEM WIRING. ALL WIRING SHALL BE IN MINIMUM 3/4" CONDUIT. NO OTHER SYSTEMS WIRING SHALL BE ROUTED IN THE FIRE ALARM CIRCUITS. HARDWIRED INITIATION CIRCUITS SHALL BE MINIMUM #14 THHN/THWN. SYSTEMS WIRING SHALL BE PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND THEIR REQUIREMENTS. ALL CONDUIT SHALL BE INSTALLED WITH COMPRESSION FITTINGS FOR COUPLIERS AND BOX CONNECTORS.
7. WIRING AND MATERIALS PER CEC 760.
8. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
9. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE PROJECT INSPECTOR TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE NFPA 72 SECTION 14.4
10. A FIRE ALARM ACCEPTANCE TEST OF ALL DEVICES AND APPLIANCES, INCLUDING THE BACKUP BATTERY(IES), SHALL BE PERFORMED. ALL MANUFACTURER OPERATING RANGED SHALL BE MET, TESTING OF THE SUPERVISING STATION SIGNALS, AS WELL AS RELAY TO THE APPROPRIATE RESPONDING AGENCY, SHALL BE INCLUDED IN THE ACCEPTANCE TESTING. THE PROJECT INSPECTOR SHALL WITNESS THE ACCEPTANCE INSPECTION AND SHALL SIGN AS THE AUTHORITY HAVING JURISDICTION REPRESENTATIVE ON THE "SYSTEM RECORD OF COMPLETION" (NFPA 72, SECTION 7.5.6), AND THE " SYSTEM RECORD OF INSPECTION AND TESTING" (NFPA 7.8.6). SEE NFPA 72, FIGURE 7.8.2(a) & (g). ALL SUPPLEMENTARY RECORDS SHALL BE ATTACHED AS APPLICABLE. THE PROJECT INSPECTOR SHALL VERIFY THAT THE FIRE ALARM SYSTEM IN SERVICE PRIOR TO COMPLETION OF THE "SYSTEM RECORD OF COMPLETION" FORM. ALL ORIGINAL DOCUMENTATION SHALL BE RETAINED IN THE REQUIRED DOCUMENTATION CABINET.
11. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND CBC 907.6.5.3 THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS BY UL OR SHALL MEET THE REQUIREMENTS OF FM STANDARD 8013.
12. HEAT DETECTORS SHALL BE INSTALLED IN COMBUSTIBLE SPACES WHERE SPRINKLER OR SMOKE DETECTOR ARE NOT INSTALLED PER CFC 907.2.3.6.2.

EQUIPMENT ANCHORAGE

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 INLUDE 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 HAVE 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 ABOVE REQUIREMENTS.

PIPING, AND DUCTWORK DISTR. SYSTEM BRACING

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. THE MEP PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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

MP☐ MD☐ PP☐ E ☒ OPTION 1: PROJECT SPECIFIC DESIGN.

MP☐ MD☐ PP☐ E ☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.

MP☐ MD☐ PP☐ E ☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

FIRE ALARM NOTES

1. ALL FIRE ALARM WORK SHALL COMPLY WITH DESIGN GUIDELINES AS WELL AS APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, CODE OR SPECIFICATION WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
3. OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR THE MIS-DESCRIPTION OF DETAILS FROM WORK WHICH ARE CLEAR AND NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MIS-DESCRIBED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED, IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES.
5. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE CALIFORNIA STATE FIRE MARSHAL (CSFM), UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
6. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
7. ALL CHANGES TO STRUCTURES (BUILDING, DRILLING, CORING, ETC.) NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.
8. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE FIRE ALARM DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DATA INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE SCS AND LOW VOLTAGE WORK INTERFACES WITH OTHER TRADES.
9. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS TO REFLECT ALL CHANGES MADE DURING CONSTRUCTION AND ANY DEVIATIONS FROM THE ELECTRICAL AND FIRE ALARM DRAWINGS. THIS INCLUDES DEVIATIONS FROM OUTLET NUMBERS AND ANY ADDITION, DELETION OR RELOCATION OF OUTLETS SHOWN ON WORKING DRAWINGS, PATHWAY ADDITIONS, DELETIONS OR RELOCATIONS. THE CONTRACTOR SHALL AFTER COMPLETION OF JOB, PROVIDE THE OWNER AN ELECTRONIC AND HARD COPY OF AS-BUILT WORK.
10. ANY DEVIATIONS FROM PLANS OR SPECS MUST BE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
11. ALL FOOTAGES ON DRAWINGS ARE ESTIMATED AND MUST BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING MATERIAL.
12. ALL STATION CABLES SHALL BE NEATLY DRESSED AND SECURED EVERY FIVE FEET AT A MINIMUM.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILE INCLUDING REPLACEMENT OF BROKEN OR DAMAGED TILES.
14. ALL LOCATIONS PASSING THROUGH A FIRE OR A SMOKE BARRIER MUST BE FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP SYSTEM, INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND PROPERLY LABELED.
15. CONDUIT SHALL BE FILLED TO MAXIMUM CAPACITY (PER CODE, STANDARDS, AND NORMS) BEFORE UTILIZING ANOTHER VACANT CONDUIT.
16. ALL FIRE ALARM DEVICES SHALL BE PROPERLY IDENTIFIED USING THE OWNER'S STANDARD INTERNAL DISTRIBUTION NUMBERING SCHEME. ALL LABELS SHALL BE PREPRINTED OR TYPED.
17. EACH CABLE SHALL BE EQUIPPED WITH A PERMANENT LABEL INDICATING THE CIRCUIT IDENTIFICATION. BOTH ENDS OF EACH CABLE AND AT EVERY MAINTENANCE HOLE, HAND HOLE, AND PULL BOX, SHALL BE SO LABELED.
18. ALL CABLES SHALL BE CLEARLY LABELED WITH CIRCUIT IDENTIFICATION.
19. PULL ROPES SHALL BE PLACED IN ALL VACANT CONDUITS.
20. ALL WORK MUST BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER. THE WORK SITE SHALL BE KEPT CLEAN AND ALL DAMAGE TO OWNER'S PROPERTY REPAIRED.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL SYSTEM ACCEPTANCE.
22. CONTRACTOR SHALL REMOVE ALL COPPER, FIBER AND COAXIAL CABLES ABANDONED IN CONDUIT, CEILINGS AND WALLS PER CEC. CABLE SHALL INCLUDE ALL INTRABUILDING, RISER SYSTEMS AND STATION CABLES FOR ALL LOW VOLTAGE/FIRE ALARM/STRUCTURED CABLING SYSTEMS.
23. CONTRACTOR(S) SHALL VERIFY ALL SITE CONDITIONS PRIOR TO BID.
24. IN ACESSIBLE CEILING SPACES:
    - 24.1. THE CONTRACTOR SHALL PROVIDE THE REQUIRED STUB UP(S) / OUT(S) AND BOXES WITH MUD-RINGS TO THE NEAREST ACCESSIBLE CEILING SPACE AND / OR NEAREST FIRE ALARM PATHWAY INFRASTRUCTURE. REFERENCE PLANS AND SPECIFICATION FOR MORE INFORMATION.
    - 24.2. THE DESIGNATED SCS / FIRE ALARM CONTRACTOR(S) SHALL PROVIDE A J-HOOK PATHWAY SYSTEM AND REQUIRED SLEEVES. DO NOT USE CEILING TILE WIRE HANGERS, WATER OR ELECTRICAL PIPES, OR LIGHT FIXTURES TO HANG CABLE. CABLE MUST BE A MINIMUM OF 6 INCHES ABOVE THE CEILING TILE AND MUST NOT COME WITHIN TWELVE INCHES OF A LIGHT FIXTURE. THE DESIGNATED ELECTRICAL CONTRACTOR(S) FOR EACH "SUB-SYSTEM WILL PROVIDE THE PATHWAY REQUIRED FOR THE SYSTEMS, OUTSIDE WHAT IS CONSIDERED THE STRUCTURED CABLING SYSTEM.
25. IN INACCESSIBLE AND HARD-LID CEILING SPACES;
    - 25.1. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT PATHWAYS, BOXES ETC. FOR A COMPLETE SYSTEM FROM THE MDF ROOM, IDF ROOM(S), IDF CABINET(S), AND ALL OTHER LOW VOLTAGE / FIRE ALARM SYSTEMS HEADEND, CABINETS, TERMINAL CABINETS, ETC. TO THE POINT OF TERMINATION AT THE STATION END LOCATION PER PLANS AND SPECIFICATION.

FIRE ALARM SCOPE OF WORK

EXPANDING EXISTING FIRE ALARM SYSTEM FOR COVERAGE OF NEW PORTABLES INSTALLED ON SITE.

CODES AND STANDARDS

APPLICABLE PROJECT BUILDING CODES, EFFECTIVE AS OF DATE: JANUARY 1, 2023

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA FIRE CODE (CFC)
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
2022 CALIFORNIA REFERENCED STANDARDS CODE
2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE
2022 NFPA 1221: STANDARD FOR THE INSTALLATION, MAINTENANCE, AND USE OF EMERGENCY SERVICES COMMUNICATIONS SYSTEMS

DSA GENERAL NOTES

1. APPLICABLE STANDARD NFPA 72, as adopted and amended in CBC Chapter 35
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 DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. 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.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
7. 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.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. 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.
10. 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.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. 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.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. 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.
18. 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.
19. 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.
20. 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.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
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.

DEVICE LEGEND

SYMBOL	MANUFACTURER	PART NO	QUANTITY	IS EXISTING	DESCRIPTION	CSFM
FACU	EDWARDS	EST3 MAIN FACP	1	YES	FACP /W CPU, 4 LOOPS, 4 NACS, 4 3-ZA40B AMPLIFIERS, MIC, 3-CAB21	7165-1657:0816
NAC	EDWARDS	BPS10A	1	NO	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	7300-1657:0229
		SIGA-CC1S	1	NO	SYNCHRONIZATION OUTPUT MODULE (STANDARD MOUNT) - UL/ULC LISTED	7300-1657:0121
		BPS10A MAINBOARD	1	NO	MAINBOARD FOR BPS10A ASSEMBLY	7300-1657:0229
AM	EDWARDS	SIGA-CT1HT	16	NO	SINGLE INPUT MODULE HIGH TEMPERATURE OPERATION	7300-1657:0121
S	EDWARDS	SIGA-OSD W/SIGA-SB4 BASE	16	NO	INTELLIGENT OPTICAL SMOKE DETECTOR	7272-1657:0511 / 7300-1657:0120
H AC	THERMOTECH	302-ET-194	16	NO	HEAT DETECTOR, 194°F (90°C)	7270-0021:0001
	EDWARDS	G4SVWF	8	NO	SPEAKER/STROBE, WALL, WHITE, FIRE	7320-1657:0516
S WP	EDWARDS	WGSRF	4	NO	25/70V SPEAKER, RED, FIRE	7320-1657:0526
SS 24v	GENERIC	SURGE PROTECTOR	17	NO	SURGE PROTECTOR	N/A
EOL	EDWARDS	EOL-15	2	NO	15K EOL ASSEMBLY, UL APPROVED	N/A
EOL	EDWARDS	EOL-47	16	NO	47K EOL ASSEMBLY, UL APPROVED	N/A

CABLE LEGEND

LABEL	AWG	DESCRIPTION
A	16	16/2 FPLP CABLE (SLC)
B	14	14/2 FPLP CABLE (NAC)
C	16	16/2 FPLP SHIELDED CABLE (SPEAKER)
F	14	14/2 FPLP CABLE (IDC)

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
FA0.1	FIRE ALARM COVER SHEET
FA0.2	FIRE ALARM SEQUENCE OF OPERATION & DETAILS
FA0.3	FIRE ALARM RISER DIAGRAM & CALCULATIONS
FA1.1	FIRE ALARM SITE PLAN
FA2.0	FIRE ALARM FLOOR PLAN

DSA APP. NO: 02-123245

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DATE SIGNED: _____

capital engineering
RANCHO CORDOVA, CALIFORNIA

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PM - DESIGN TEAM PROJECT NO.

SUSD
Stockton Unified School District
Since 1852
STOCKTON, CA 95203

PRIMARY YEARS ACADEMY PORTABLES

3830 WEBSTER AVE.
STOCKTON, CA 95204

REVISIONS

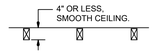
No.	Description	Date

PROJECT No.: 2024-003.00

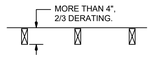
CONSTRUCTION DOCUMENTS

FIRE ALARM COVER SHEET

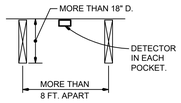
FA0.1



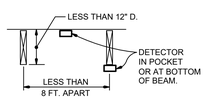
4 OBSTRUCTION ≤ 4" DEEP



3 BEAM > 4" DEEP



2 BEAM > 18" DEEP



1 BEAM < 12" DEEP

NOTES:

1. SOLID JOIST CONSTRUCTION.
   SPACING: THE DESIGN SPACING OF HEAT DETECTORS, WHERE MEASURED AT RIGHT ANGLES TO THE SOLID JOISTS, SHALL NOT EXCEED 50 PERCENT OF THE LISTED SPACING.
   B. LOCATION: DETECTORS SHALL BE MOUNTED AT THE BOTTOM OF THE JOISTS.
2. BEAM CONSTRUCTION.
   A. SPACING:
      1. A CEILING SHALL BE TREATED AS A SMOOTH CEILING IF THE BEAMS PROJECT NO MORE THAN 4 IN. BELOW THE CEILING.
      2. WHERE THE BEAMS PROJECT MORE THAN 4 IN. BELOW THE CEILING, THE SPACING OF SPOT-TYPE HEAT DETECTORS AT RIGHT ANGLES TO THE DIRECTION OF BEAM TRAVEL SHALL BE NOT MORE THAN TWO-THIRDS OF THE LISTED SPACING.
      3. WHERE THE BEAMS PROJECT MORE THAN 18 IN. BELOW THE CEILING AND ARE MORE THAN 8 FT. ON CENTER, EACH BAY FORMED BY THE BEAMS SHALL BE TREATED AS A SEPARATE AREA.
   B. LOCATION: WHERE BEAMS ARE LESS THAN 12 IN. IN DEPTH AND LESS THAN 8 FT. ON CENTER, DETECTORS SHALL BE PERMITTED TO BE INSTALLED ON THE BOTTOM OF BEAMS.
3. BEAM CONSTRUCTION CONSISTS OF SOLID MEMBERS PROJECTING DOWN FROM THE CEILING SURFACE MORE THAN 4" AND SPACED MORE THAN 36" O.C.
4. JOIST CONSTRUCTION CONSISTS OF SOLID MEMBERS PROJECTING DOWN FROM THE CEILING SURFACE MORE THAN 4" AND SPACED AT 36" OR LESS O.C.

ABBREVIATIONS

ACP	ACCESS CONTROL PROCESSOR	(N)	NEW
AFF	ABOVE FINISHED FLOOR	NC	NORMALLY CLOSED
AHJ	AUTHORITY HAVING JURISDICTION	NIC	NOT IN CONTRACT
AMP	AMPLIFIER	NO	NORMALLY OPEN
AOR	ARCHITECT OF RECORD	NTS	NOT TO SCALE
AUTO	AUTOMATIC	OC	ON CENTER
AUX	AUXILIARY	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
AWG	AMERICAN WIRE GAUGE		
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS	OFOI	OWNER FURNISHED, OWNER INSTALLED
		OSP	OUTSIDE PLANT
C	CONDUIT	PB	PULL BOX
CATV	COMMUNITY ANTENNA TELEVISION	POE	POWER OVER ETHERNET
		PR	PAIR OF CONDUCTORS
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	PVC	POLYVINYL CHLORIDE
		PWR	POWER
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	(RR)	REMOVE AND REPLACE
		(RL)	REMOVE AND RELOCATE
CL	CENTERLINE	RCP	REFLECTED CEILING PLAN
CSFM	CALIFORNIA STATE FIRE MARSHAL	RFI	REQUEST FOR INFORMATION
DIV	DIVISION		
DC	DOOR CONTACT	RMC	RIGID METALLIC CONDUIT
(EX)	EXISTING	SCS	STRUCTURED CABLING SYSTEM
EC	ELECTRICAL CONTRACTOR		
ECS	EMERGENCY COMMUNICATION SYSTEM	SM	SINGLE MODE
		STR	STRANDS (OF FIBER)
EF	ENTRANCE FACILITY FOR TELECOMMUNICATION	STP	SHIELDED TWISTED PAIR
		SEC	SECURITY
EMT	ELECTRIC METALLIC TUBING	TBB	TELECOMMUNICATIONS BONDING BACKBONE
ER	EQUIPMENT ROOM		
EXT	EXTERIOR	TELCO	TELEPHONE COMPANY
(F)	FUTURE	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FACP	FIRE ALARM CONTROL PANEL		
FATC	FIRE ALARM TERMINAL CABINET	TMGB	TELECOMMUNICATION MAIN GROUNDING BUSBAR
FABP	FIRE ALARM BOOSTER PANEL		
FB	FLOORBOX	TYP	TYPICAL
FO	FIBER OPTIC	UNO	UNLESS NOTED OTHERWISE
GC	GENERAL CONTRACTOR		
IDF	INTERMEDIATE DISTRIBUTION FRAME	UPS	UNINTERRUPTIBLE POWER SUPPLY
INT	INTERIOR		
IP	INTERNET PROTOCOL	UTP	UNSHIELDED TWISTED PAIR
JB	JUNCTION BOX		
LV	LOW VOLTAGE	V	VOICE
MDF	MAIN DISTRIBUTION FRAME	WB	WALL BOX
MIC	MICROPHONE	WP	WEATHERPROOF
MM	MULTIMODE		
MPOE	MINIMUM POINT OF ENTRY		

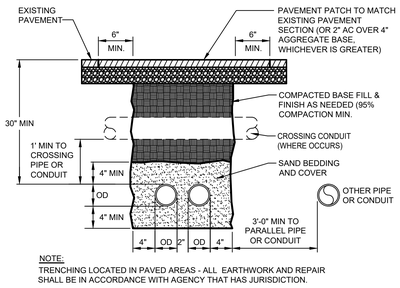
SEQUENCE OF OPERATIONS

	SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P		REMARKS
		SYSTEM OUTPUTS: PANEL ANNUNCIATION										NOTIFICATION						SAFETY CONTROL	
		ACTUATE GENERAL ALARM AUDIBLE NOTIFICATION	ACTUATE GENERAL ALARM VISUAL NOTIFICATION	ACTUATE SUPERVISORY ALARM COUNTER IN PANEL	ACTUATE SUPERVISORY ALARM VISUAL INDICATOR IN PANEL	ACTUATE TROUBLE ALARM COUNTER IN PANEL	ACTUATE TROUBLE ALARM VISUAL INDICATOR IN PANEL	ACTUATE PANEL'S LCD DISPLAY	ACTUATE AUDIBLE & VISUAL NOTIFICATION DEVICES	TRANSMIT GENERAL FIRE ALARM SIGNAL TO REMOTE STATION	TRANSMIT SUPERVISORY SIGNAL TO REMOTE STATION	TRANSMIT TROUBLE SIGNAL TO REMOTE STATION							
1	ADDRESSABLE MANUAL PULL STATION(S)	●	●					●	●	●									1
2	ADDRESSABLE SMOKE DETECTOR(S)	●	●					●	●	●									2
3	ADDRESSABLE HEAT DETECTOR(S)	●	●					●	●	●									3
4																			4
5																			5
6																			6
7	GROUND FAULT					●	●	●				●							7
8	OPEN CIRCUIT					●	●	●				●							8
9	NOTIFICATION CIRCUIT TROUBLE					●	●	●				●							9
10	FIRE ALARM PANEL LOW BATTERY					●	●	●				●							10
11	FIRE ALARM PANEL AC POWER FAILURE					●	●	●				●							11
12	FIRE ALARM PANEL COMMUNICATION LINE FAULT					●	●	●				●							12
13																			13
14																			14
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P		

HEAT DETECTORS IN SOLID JOIST & BEAM CONSTRUCTION

SCALE : NONE

5 FA0.2

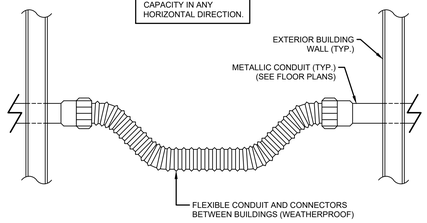


NOTE:
TRENCHING LOCATED IN PAVED AREAS - ALL EARTHWORK AND REPAIR SHALL BE IN ACCORDANCE WITH AGENCY THAT HAS JURISDICTION.

TYPICAL TRENCH DETAIL

SCALE : NONE

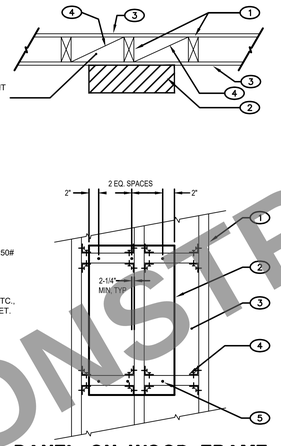
8 FA0.2



SEISMIC JOINT CONDUIT DETAIL

SCALE : NONE

6 FA0.2



KEY NOTES

1. WOOD STUD
2. SURFACE MOUNTED FACU CABINET, SEE NOTE #1
3. SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS)
4. BLOCKING (MATCH STUD DEPTH) ATTACH TO (E) VERTICAL STUDS WITH A34 CLIPS EACH END, TOP AND BOTTOM - AVOID CONFLICT OF NAILS EACH SIDE OF STUD
5. 5/16" X 2 1/2" LAG SCREWS (BY ELECTRICAL CONTRACTOR)

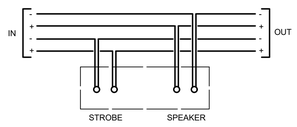
NOTES:

1. FACU CABINETS ARE 250# MAX. (INCLUDING CONTENTS)
2. MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO IDF CABINET.

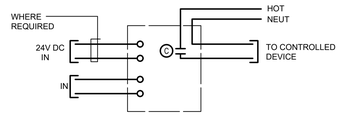
PANEL ON WOOD FRAME UNIT ELEVATION DETAIL

SCALE : NONE

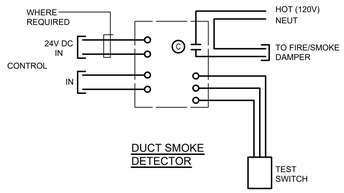
3 FA0.2



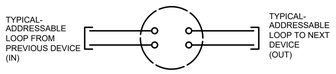
SPEAKER OR STROBE OR
SPEAKER/STROBE ON SAME CIRCUIT



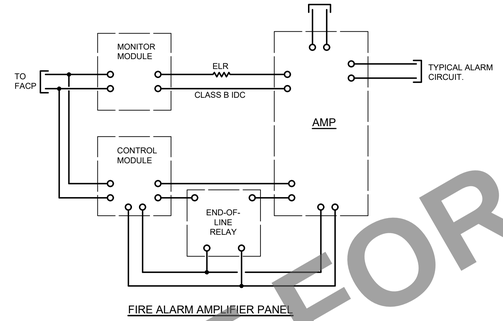
CONTROL MODULE



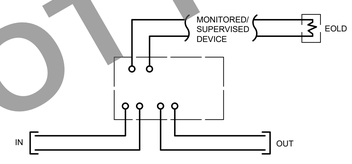
DUCT SMOKE
DETECTOR



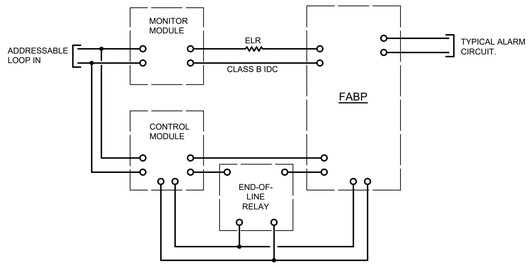
SMOKE OR HEAT DETECTORS



FIRE ALARM AMPLIFIER PANEL



MONITOR MODULE



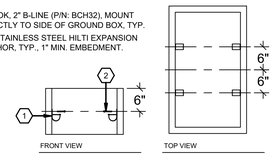
FIRE SIGNAL BOOSTER PANEL

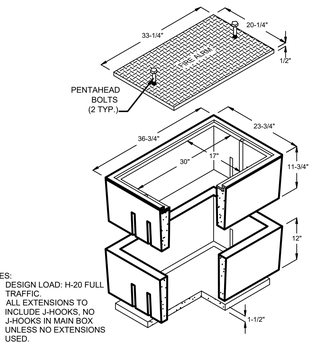
TYPICAL - FIRE ALARM DEVICES WIRING DIAGRAMS

SCALE : NONE

7 FA0.2

1 J-HOOK, 2" B-LINE (P/N: BCH32), MOUNT DIRECTLY TO SIDE OF GROUND BOX, TYP.
2 1/4" STAINLESS STEEL HILTI EXPANSION ANCHOR, TYP., 1" MIN. EMBEDMENT.





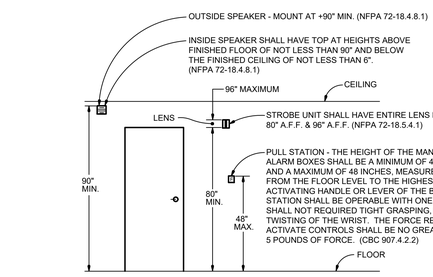
NOTES:
1. DESIGN LOAD: H-20 FULL TRAFFIC.
2. ALL EXTENSIONS TO INCLUDE J-HOOKS, NO J-HOOKS IN MAIN BOX UNLESS NO EXTENSIONS USED.

CATALOG NUMBER	PRODUCT	DESCRIPTION
CYB1730 CYN36SL	BOX WITH SLAB	REINFORCED CONCRETE
CY173051JH	COVER	STEEL CHECKER PLATE (H20 HEAVY DUTY)
CYB1730EXT	EXTENSION	12" HIGH REINFORCED CONCRETE
CYHDB1730	HOLD DOWN BOLT	HOLD DOWN PENTAHEAD BOLT (2 EA.)

FIRE ALARM GROUND BOX 17"X30" INTERNAL

SCALE : NONE

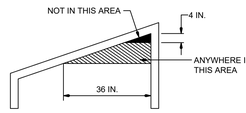
4 FA0.2



PULL STATION, STROBE & SPEAKER UNIT ELEVATION DETAIL

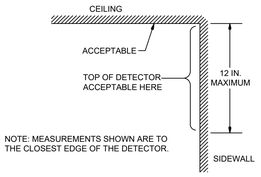
SCALE : NONE

1 FA0.2



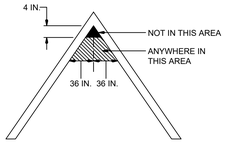
SHED/SLOPED CEILING

OTHER SPECIFIC SMOKE DETECTOR LOCATION REQUIREMENTS:
1. MINIMUM 10 FT HORIZONTALLY FROM FIXED COOKING APPLIANCES. (SOME EXCEPTIONS)
2. MINIMUM 36-IN AWAY HORIZONTALLY FROM A DOOR CONTAINING A SHOWER OR TUB.
3. MINIMUM 36-IN AWAY HORIZONTALLY FROM AIR REGISTERS.
4. MINIMUM 36-IN AWAY HORIZONTALLY FROM CEILING FANS.



NOTE: MEASUREMENTS SHOWN ARE TO THE CLOSEST EDGE OF THE DETECTOR.

WALL MOUNTED



PEAKED CEILING

SMOKE DETECTOR LOCATION REQ'S

SCALE : NONE

2 FA0.2

DSA APP. NO: 02-123245

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REVISIONS

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PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

FIRE ALARM SEQUENCE OF OPERATION & DETAILS

FA0.2

EST3 BATTERY CALCULATIONS

Descriptions	QTY	IS EXISTING	Standby Current (mA)	Total Standby (mA)	Alarm Current (mA)	Total Alarm (mA)
3-PPS/M Power Supply	1	YES	N/A	N/A	N/A	N/A
3-BPS/M Booster Power Supply	1	YES	50	50	50	50
3-CPU3 Central Porcessor	1	YES	155	155	165	165
3-RS485B Communications Card	1	YES	98	98	98	98
3-LCD LCD Module	2	YES	43	86	43	86
3-SDDC2 Dual SIGA Controller*	1	YES	264	264	336	336
3-ASU Audio Source Unit	1	YES	80	80	80	80
3-MODCOM DACT Module	1	YES	60	60	95	95
3-ZA40x40W Zone Amplifier	2	YES	62	124	2480	4960
3-12/S1GY Annunciation Module	1	YES	2	2	38	38
3-LCDANN Remote Annunciator	1	YES	187	187	187	187
TOTALS				1106		6095

*NOTE: The SIGA Device Controller is calculated with the maximum Signature addressable device load

Battery Reqeuirement Calculation for 24 Hours Standby and 15 Minutes Alarm:

Ampere Hours = [(Standby Current x Time) + (Alarm Current x Time)] x Derating Factor
Ampere Hours = [(1.106 x 24 hrs) + (6.095 x 0.25)] x 1.2
Ampere Hours = 33.7 AH

BATTERIES SUPPLIED: EXISTING (2) 12 Volts, 38 Ampere Hours (24 Volts, 38 Ampere Hours)

EXISTING CIRCUIT: 2S **TOTAL CKT. WATTS: 23W (E) + 12W (N)**

DEVICE ID NO.	IS EXISTING	DEVICE WATTAGE(W)	DEVICE CURRENT (A)	SECTION CURRENT (A)	WIRE AWG	LENGTH (ft)	DEVICE VAC	PERCENT DROP	AUDIO LOSS (dB)
2S01	YES	0.5	0.00707	0.49505	16	175	69.97	1.03	-0.06
2S02	YES	0.5	0.00707	0.48798	16	60	69.73	1.38	-0.09
2S03	YES	0.5	0.00707	0.48091	16	150	69.12	2.23	-0.16
2S04	YES	0.5	0.00707	0.47383	16	40	68.96	2.46	-0.18
2S05	YES	2	0.02829	0.46676	16	30	68.84	2.63	-0.20
2S06	YES	0.5	0.00707	0.43847	16	65	68.60	2.96	-0.23
2S07	YES	0.5	0.00707	0.43140	16	40	68.46	3.17	-0.25
2S08	YES	2	0.02829	0.42433	16	45	68.30	3.40	-0.27
2S09	YES	0.5	0.00707	0.39604	16	380	67.03	5.18	-0.43
2S10	YES	0.5	0.00707	0.38897	16	40	66.90	5.37	-0.45
2S11	YES	0.5	0.00707	0.38190	16	50	66.74	5.60	-0.47
2S12	YES	0.5	0.00707	0.37482	16	50	66.59	5.82	-0.49
2S13	YES	0.5	0.00707	0.36775	16	45	66.45	6.02	-0.51
2S14	YES	0.5	0.00707	0.36068	16	45	66.31	6.21	-0.52
2S15	YES	0.5	0.00707	0.35361	16	50	66.16	6.42	-0.54
2S16	YES	0.25	0.00354	0.34653	16	40	66.05	6.58	-0.56
2S17	YES	0.25	0.00354	0.34300	16	25	65.97	6.68	-0.57
2S18	YES	2	0.02829	0.33946	16	35	65.87	6.83	-0.58
2S19	YES	0.5	0.00707	0.31117	16	70	65.69	7.08	-0.61
2S20	YES	0.5	0.00707	0.30410	16	405	64.66	8.55	-0.74
2S21	YES	0.5	0.00707	0.29703	16	35	64.57	8.67	-0.76
2S22	YES	2	0.02829	0.28996	16	15	64.53	8.72	-0.76
2S23	YES	2	0.02829	0.26167	16	210	64.07	9.38	-0.82
2S24	YES	0.5	0.00707	0.23338	16	140	63.80	9.76	-0.86
2S25	YES	0.5	0.00707	0.22631	16	45	63.71	9.89	-0.87
2S26	YES	0.5	0.00707	0.21924	16	45	63.63	10.00	-0.88
2S27	YES	2	0.02829	0.21216	16	35	63.57	10.09	-0.89
2S28	YES	0.5	0.00707	0.18388	16	65	63.47	10.23	-0.91
2S29	YES	0.5	0.00707	0.17680	16	45	63.40	10.33	-0.91
2S30	NO	0.5	0.00707	0.16973	16	330	62.93	10.99	-0.98
2S31	NO	2	0.02829	0.16266	16	12	62.91	11.02	-0.98
2S32	NO	0.5	0.00707	0.13437	16	8	62.90	11.03	-0.98
2S33	NO	0.5	0.00707	0.12730	16	147	62.75	11.25	-1.00
2S34	NO	2	0.02829	0.12023	16	16	62.73	11.27	-1.01
2S35	NO	0.5	0.00707	0.09194	16	5	62.73	11.28	-1.01
2S36	NO	0.5	0.00707	0.08487	16	106	62.65	11.39	-1.02
2S37	NO	2	0.02829	0.07779	16	5	62.65	11.39	-1.02
2S38	NO	0.5	0.00707	0.04950	16	30	62.63	11.41	-1.02
2S39	NO	0.5	0.00707	0.04243	16	44	62.62	11.43	-1.02
2S40	NO	2	0.02829	0.03536	16	8	62.62	11.43	-1.02
2S41	NO	0.5	0.00707	0.00707	16	24	62.61	11.44	-1.02

CALCULATION METHODS:
WATTS TO AMPS CONVERSION = DEVICE WATTS / VOLTAGE
RESISTANCE FROM PREVIOUS (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X DIST. FROM PREVIOUS (FT)
VOLTAGE DROP FROM PREVIOUS = RESISTANCE FROM PREVIOUS (Ω) X REMAINING CURRENT (A)
DB LOSS FROM PREVIOUS = 20 × LOG (VOLTAGE AT PREVIOUS DEVICE / VOLTAGE AT DEVICE)
MAX. DB LOSS = 20 × LOG (VOLTAGE AT LAST DEVICE / START VOLTAGE)

VOLTAGE FROM THE SOURCE = 707.7V
WORST CASE RESISTANCE(STRANDED WIRE #16) = 4.2Ω per 1000FT

9N POINT-TO-POINT REPORT

CURRENT SUMMARY

MAX. CIRCUIT CURRENT (A):	3	TOTAL CIRCUIT CURRENT (A):	0.224	
		SPARE CIRCUIT CURRENT (A):	2.78	
		SPARE CIRCUIT CURRENT %:	**92.53 %**	
MAX. CARD CURRENT (A):	n/a	TOTAL CARD CURRENT (A):	0.224	
		SPARE CARD CURRENT (A):		
		SPARE CARD CURRENT %:		

POWER SUMMARY

STARTING CALC. VOLTAGE:	20.40	MAX. VOLTAGE DROP:	0.41
		VOLTAGE DROP %:	**2.01 %**
MIN. OPERATIONAL VOLTAGE:	16	END OF LINE VOLTAGE:	19.99
WIRE RESISTANCE (Ω/KFT):	3.07	TOTAL CIRCUIT LENGTH (FT):	487
		TOTAL CIRCUIT RESISTANCE (Ω):	2.99

CIRCUIT WIRING PROPERTIES: 'V' 14/2 FPLP/R NAC 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED

DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

DEVICE LABEL	PART NO	IS EXISTING	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	REMAINING ALARM CURRENT (A)	DISTANCE FROM PREVIOUS	RESISTANCE FROM PREVIOUS (Ω)	VOLTAGE DROP FROM PREVIOUS	VOLTAGE AT DEVICE	TOTAL VOLTAGE DROP	VOLTAGE DROP PERCENT
9N-01	G4SVWF	NO	SPEAKER/STROBE, WALL, WHITE, FIRE	75CD	0.028	0.224	61	0.375183	0.08	20.32	0.08	0.41 %
9N-02	G4SVWF	NO	SPEAKER/STROBE, WALL, WHITE, FIRE	75CD	0.028	0.196	30	0.182736	0.04	20.28	0.12	0.59 %
9N-03	G4SVWF	NO	SPEAKER/STROBE, WALL, WHITE, FIRE	75CD	0.028	0.168	146	0.896440	0.15	20.13	0.27	1.33 %
9N-04	G4SVWF	NO	SPEAKER/STROBE, WALL, WHITE, FIRE	75CD	0.028	0.14	30	0.182441	0.03	20.10	0.3	1.45 %
9N-05	G4SVWF	NO	SPEAKER/STROBE, WALL, WHITE, FIRE	75CD	0.028	0.112	111	0.682	0.08	20.03	0.37	1.83 %
9N-06	G4SVWF	NO	SPEAKER/STROBE, WALL, WHITE, FIRE	75CD	0.028	0.084	30	0.182441	0.02	20.01	0.39	1.90 %
9N-07	G4SVWF	NO	SPEAKER/STROBE, WALL, WHITE, FIRE	75CD	0.028	0.056	50	0.304434	0.02	20	0.4	1.98 %
9N-08 EOL 15K	G4SVWF	NO	SPEAKER/STROBE, WALL, WHITE, FIRE	75CD	0.028	0.028	30	0.182736	0.01	19.99	0.41	2.01 %

CALCULATION METHODS:
RESISTANCE FROM PREVIOUS (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X DIST. FROM PREVIOUS (FT)
VOLTAGE DROP FROM PREVIOUS = RESISTANCE FROM PREVIOUS (Ω) X REMAINING CURRENT (A)

PANEL
(BPS10A) BATTERY CALCULATION
(SECONDARY POWER SOURCE REQUIREMENTS)

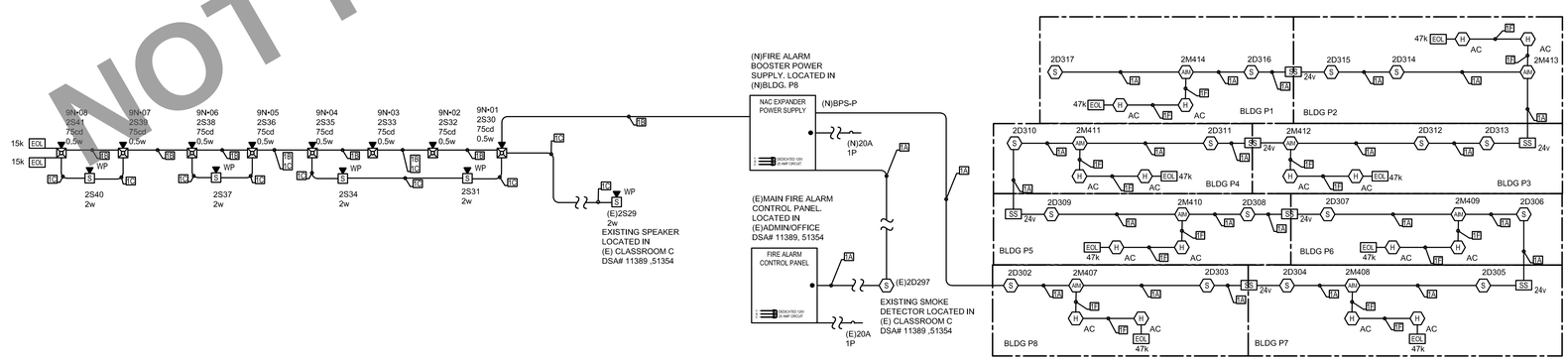
PANEL COMPONENTS

	QTY	IS EXISTING	PART NO.	DESCRIPTION	STANDBY CURRENT CURRENT DRAW (A)	STANDBY CURRENT TOTAL (A)	SECONDARY ALARM CURRENT CURRENT DRAW (A)	SECONDARY ALARM CURRENT TOTAL (A)
	1	NO	BPS10A	REMOTE BOOSTER POWER SUPPLY, 10A, 120VAC, RED	0	0	0	0
	1	NO	BPS10A MAINBOARD	MAINBOARD FOR BPS10A ASSEMBLY	0.07	0.07	0.27	0.27
	1	NO	SIGA-CC1S	SYNCHRONIZATION OUTPUT MODULE (STANDARD MOUNT) - UL/ULC LISTED	0.000223	0.000223	0.0001	0.0001

CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SYMBOL	QTY	IS EXISTING	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
9N	N/A	0.224000		8	NO	G4SVWF	SPEAKER/STROBE, WALL, WHITE, FIRE 75CD	0	0	0.028	0.224

	TOTAL STANDBY (A)	0.070223	TOTAL ALARM (A) 0.4941
	REQUIRED STANDBY TIME (HOURS)	24	
	REQUIRED ALARM TIME (MINUTES)	5	
SECONDARY STANDBY LOAD (A)	0.070223	24	1.69
SECONDARY ALARM LOAD (A)	0.4941	0.083	0.041175
STANDBY AND ALARM SUBTOTAL (AMP HOURS)		1.73	
DERATING FACTOR		1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)		2.16	

PROVIDE (2) 12V 7AH BATTERIES
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED, REFER TO MANUFACTURER DOCUMENTATION.



DSA APP. NO: 02-123245

COMMUNITY ARCHITECTURE
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Phone: (916) 365-9655

LICENSED ARCHITECT CHARLES ERIC DANDY No. C32876 EXP. 03/31/26 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JOHN D. GUMYOD E 24187 EXPIRES 9/30/26 ELECTRICAL STATE OF CALIFORNIA

DATE SIGNED:

capital engineering
RANCHO CORDOVA, CALIFORNIA

JPG - RK, EM 240488
PM - DESIGN TEAM PROJECT NO.

SUSD Stockton Unified School District Since 1852
STOCKTON, CA 95203

PRIMARY YEARS ACADEMY PORTABLES

3830 WEBSTER AVE.
STOCKTON, CA 95204

REVISIONS

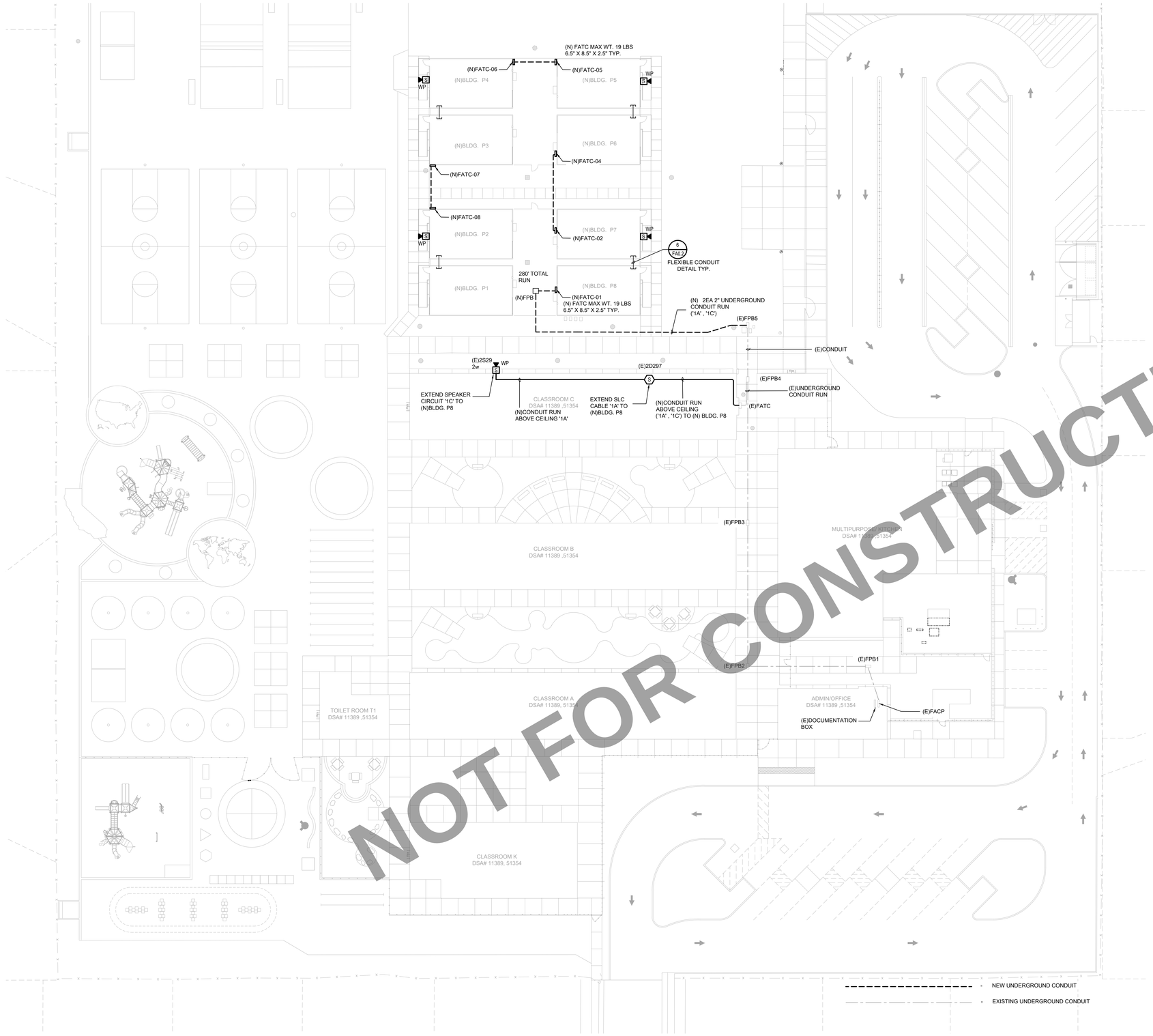
No.	Description	Date

PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

FIRE ALARM RISER DIAGRAM & CALCULATIONS

FA0.3



FIRE ALARM SITE PLAN

SCALE : 1" = 20'-0"

1 / FA1.1

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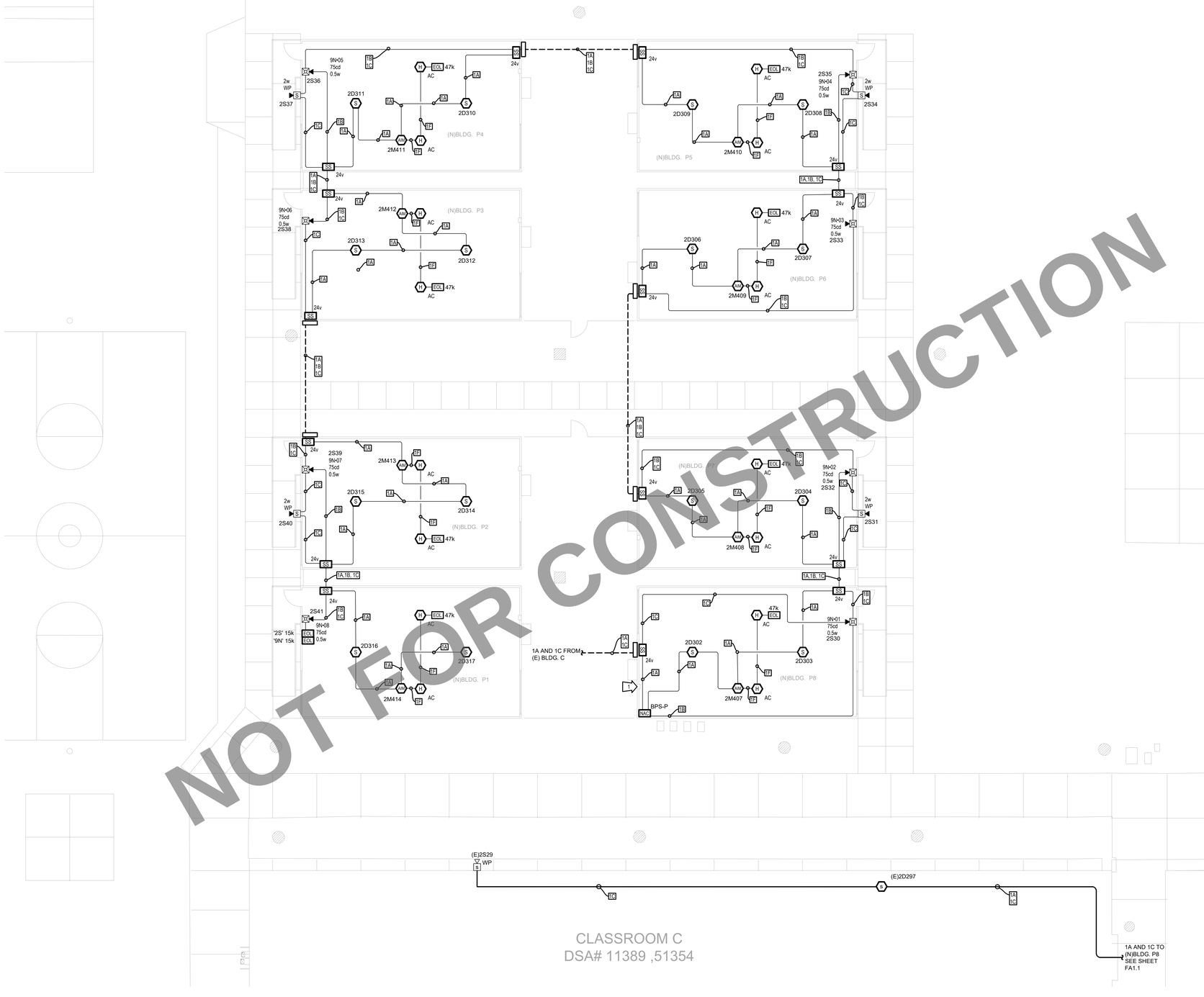
CONSTRUCTION DOCUMENTS

FIRE ALARM SITE PLAN

FA1.1

SHEET KEY NOTES:

1. (E)PANEL PROVIDE 120V – 20A DEDICATED CIRCUIT WITH A RED BREAKER LOCK DEVICE INSTALLED.



FIRE ALARM FLOOR PLAN

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

1 / FA2.0

DSA APP. NO: 02-123245

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REVISIONS

No.	Description	Date

PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

FIRE ALARM FLOOR PLAN

FA2.0

CONTRACTOR(S) GUIDELINES

1. ALL TECHNOLOGY WORK SHALL COMPLY WITH DESIGN GUIDELINES AS WELL AS APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, CODE OR SPECIFICATION WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
3. OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR THE MIS-DESCRIPTION OF DETAILS FROM WORK WHICH ARE CLEAR AND NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MIS-DESCRIBED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED, IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES.
5. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE CALIFORNIA STATE FIRE MARSHAL (CSFM), UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
6. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
7. ALL CHANGES TO STRUCTURES (BUILDING, DRILLING, CORING, ETC.) NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.
8. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE TECHNOLOGY DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DATA INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE SCS AND LOW VOLTAGE WORK INTERFACES WITH OTHER TRADES.
9. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS TO REFLECT ALL CHANGES MADE DURING CONSTRUCTION AND ANY DEVIATIONS FROM THE ELECTRICAL AND TECHNOLOGY DRAWINGS. THIS INCLUDES DEVIATIONS FROM OUTLET NUMBERS AND ANY ADDITION, DELETION OR RELOCATION OF OUTLETS SHOWN ON WORKING DRAWINGS, PATHWAY ADDITIONS, DELETIONS OR RELOCATIONS. THE CONTRACTOR SHALL AFTER COMPLETION OF JOB, PROVIDE THE OWNER AN ELECTRONIC AND HARD COPY OF AS-BUILT WORK.
10. ANY DEVIATIONS FROM PLANS OR SPECS MUST BE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
11. ALL FOOTAGES ON DRAWINGS ARE ESTIMATED AND MUST BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING MATERIAL.
12. ALL STATION CABLES SHALL BE NEATLY DRESSED AND SECURED EVERY FIVE FEET AT A MINIMUM.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILE INCLUDING REPLACEMENT OF BROKEN OR DAMAGED TILES.
14. ALL LOCATIONS PASSING THROUGH A FIRE OR A SMOKE BARRIER MUST BE FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP SYSTEM, INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND PROPERLY LABELED.
15. CONDUIT SHALL BE FILLED TO MAXIMUM CAPACITY (PER CODE, STANDARDS, AND NORMS) BEFORE UTILIZING ANOTHER VACANT CONDUIT.
16. ALL TECHNOLOGY DEVICES SHALL BE PROPERLY IDENTIFIED USING THE OWNER'S STANDARD INTERNAL DISTRIBUTION NUMBERING SCHEME. ALL LABELS SHALL BE PREPRINTED OR TYPED.
17. EACH CABLE SHALL BE EQUIPPED WITH A PERMANENT LABEL INDICATING THE CIRCUIT IDENTIFICATION. BOTH ENDS OF EACH CABLE AND AT EVERY MAINTENANCE HOLE, HAND HOLE, AND PULL BOX, SHALL BE SO LABELED.
18. FIBER BACKBONE CABLE SHALL BE PLACED WITH 6 FOOT MAINTENANCE LOOP AT BOTH ENDS OF THE RUN. THE MAINTENANCE LOOP SHALL BE SECURED IN SUCH A MANNER TO PROVIDE PROTECTION DURING SUBSEQUENT CABLE PULLS.
19. FIBER CABLES SHALL BE SPLICED TOGETHER USING A FUSION SPLICE AND PLACED IN A FIBER SPLICE CASE THAT IS RE-ENTERABLE, FULLY DRESSED AND ENCLOSED TO FIT THE NUMBER AND TYPE OF CABLES TERMINATED.
20. ALL CABLES SHALL BE CLEARLY LABELED WITH CIRCUIT IDENTIFICATION.
21. PULL ROPES SHALL BE PLACED IN ALL VACANT CONDUITS.
22. ALL WORK MUST BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER. THE WORK SITE SHALL BE KEPT CLEAN AND ALL DAMAGE TO OWNER'S PROPERTY REPAIRED.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL SYSTEM ACCEPTANCE.
24. CONTRACTOR SHALL REMOVE ALL COPPER, FIBER AND COAXIAL CABLES ABANDONED IN CONDUIT, CEILINGS AND WALLS PER CEC. CABLE SHALL INCLUDE ALL INTRABUILDING, RISER SYSTEMS AND STATION CABLES FOR ALL LOW VOLTAGE/TECHNOLOGYSTRUCTURED CABLING SYSTEMS.
25. CONTRACTOR(S) SHALL VERIFY ALL SITE CONDITIONS PRIOR TO BID.
26. IN ACCESSIBLE CEILING SPACES:
    - 26.1. THE CONTRACTOR SHALL PROVIDE THE REQUIRED STUB UP(S) / OUT(S) AND BOXES WITH MUD-RINGS TO THE NEAREST ACCESSIBLE CEILING SPACE AND / OR NEAREST TECHNOLOGY PATHWAY INFRASTRUCTURE, REFERENCE PLANS AND SPECIFICATION FOR MORE INFORMATION.
    - 26.2. THE DESIGNATED SCS / TECHNOLOGY CONTRACTOR(S) SHALL PROVIDE A J-HOOK PATHWAY SYSTEM AND REQUIRED SLEEVES. DO NOT USE CEILING TILE WIRE HANGERS, WATER OR ELECTRICAL PIPES, OR LIGHT FIXTURES TO HANG CABLE. CABLE MUST BE A MINIMUM OF 6 INCHES ABOVE THE CEILING TILE AND MUST NOT COME WITHIN TWELVE INCHES OF A LIGHT FIXTURE. THE DESIGNATED ELECTRICAL CONTRACTOR(S) FOR EACH "SUB-SYSTEM WILL PROVIDE THE PATHWAY REQUIRED FOR THE SYSTEMS, OUTSIDE WHAT IS CONSIDERED THE STRUCTURED CABLING SYSTEM.
27. IN INACCESSIBLE AND HARDLID CEILING SPACES;
    - 27.1. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT PATHWAYS, BOXES ETC. FOR A COMPLETE SYSTEM FROM THE MDF ROOM, IDF ROOM(S), IDF CABINET(S), AND ALL OTHER LOW VOLTAGE / TECHNOLOGY SYSTEMS HEADEND, CABINETS, TERMINAL CABINETS, ETC. TO THE POINT OF TERMINATION AT THE STATION END LOCATION PER PLANS AND SPECIFICATION.

EQUIPMENT ANCHORAGE

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 INLUDE 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 HAVE 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 ABOVE REQUIREMENTS.

PIPING, AND DUCTWORK DISTR. SYSTEM BRACING

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. THE MEP PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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

MP☐ MD☐ PP☐ E☒ OPTION 1: PROJECT SEPCIFIC DESIGN.

MP☐ MD☐ PP☐ E☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.

MP☐ MD☐ PP☐ E☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

TECHNOLOGY CABLING NOTES

1. THE USE OF LUBRICANTS SUCH AS CLEAR GLIDE, TO FACILITATE THE INSTALLATION OF CABLES IN CONDUITS IS ENCOURAGED FOR FRICTION REDUCTION AND TO MAINTAIN THE REQUIRED PULL TENSION. YELLOW 77 AND POLYWATER "F" IS PERMISSIBLE FOR USE AS A LUBRICANT FOR ISP TECHNOLOGY CABLING. THE USE OF OSP, LOW TEMPERATURE CABLE LUBRICANTS SHALL NOT BE ACCEPTABLE IN AN INDOOR PLENUM ENVIRONMENT. UNDER NO CIRCUMSTANCES SHALL CABLE PULLING LUBRICANT BE ALLOWED TO ACCUMULATION ON WALLS, FLOORS, BACKBOARDS, OR OTHER SURFACES OUTSIDE THE CONDUIT.
2. ANY CABLE DAMAGED OR EXCEEDING RECOMMENDED INSTALLATION PARAMETERS DURING INSTALLATION SHALL BE REPLACED BY THE CONTRACTOR BEFORE FINAL ACCEPTANCE AT NO COST TO THE OWNER.
3. EACH RUN OF CABLE SHALL BE CONTINUOUS WITHOUT ANY JOINTS OR SPLICES.
4. ALL STATION CABLE SHALL BE PLACED IN THE INTERIOR OF WALLS UNLESS NOTED OTHERWISE OR OBSTRUCTED.
5. PROVIDE BUSHINGS, GROMMETS AND STRAIN-RELIEF FOR CABLES TERMINATING AT WALL-MOUNTED DEVICES TO ENSURE DURABLE AND ROBUST CONNECTIONS. THE BUSHINGS AND GROMMETS ARE INTENDED TO PROTECT THE CABLES FROM ANY SHARP EDGES THAT PRESENT A RISK TO THE CABLES. ENSURE THAT ALL SHARP EDGES ARE COVERED TO PROTECT THE CABLES FROM DAMAGE.
6. IN SUSPENDED CEILING AND RAISED FLOOR AREAS WHERE DUCT, CABLE BUNDLES SHALL BE SUPPORTED VIA J-HOOKS ATTACHED TO THE BUILDING STRUCTURE AND FRAMEWORK AT A MAXIMUM OF FIVE (5) FOOT INTERVALS. MINIMUM 1 " WIDE J-HOOKS SHALL BE APPROPRIATELY SIZED TO ALLOW A MINIMUM OF 40% SPARE CAPACITY FOR FUTURE CABLE INSTALLATION. THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID FOR ANY ADDITIONAL SUPPORTS SEISMIC BRACING REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
7. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO LIFT OUT CEILING GRID SUPPORTS OR LAID DIRECTLY ON THE CEILING GRID.
8. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO OR SUPPORTED BY FIRE SPRINKLER HEADS OR DELIVERY SYSTEMS OR ANY ENVIRONMENTAL SENSOR LOCATED IN THE CEILING AIR SPACE.
9. WHERE ADDITIONAL CONDUIT(S)/SLEEVE(S) ARE REQUIRED, BUT NOT PROVIDED BY THE CONSTRUCTOR, SCS AND/OR LV CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SUCH CONDUIT(S)/SLEEVE(S). CONDUIT(S) AND SLEEVE(S) SHALL BE OF SUITABLE MATERIAL, SIZED, INSTALLED, FIRE-STOPPED, AND GROUNDED AS REQUIRED BY THE CEC, ANSI/TIA-569-D STANDARD AND ALL OTHER APPLICABLE CODES AND STANDARDS. SLEEVES SHALL CONSIST OF METALLIC CONDUIT DE-BURRED AND GROMMETTED ON BOTH ENDS WITH FLANGES OR OTHER MEANS TO PREVENT THE SLEEVE FROM SLIPPING OR FALLING OUT OF THE PARTITION. SLEEVES SHALL EXTEND A MINIMUM OF 6" ON BOTH SIDES OF THE PARTITION. OUTSIDE PERIMETER OF SLEEVES SHALL BE SEALED AGAINST SOUND, AIR, WATER, HEAT, OR AS REQUIRED BY PARTITION DESIGN. INSIDE OF SLEEVE SHALL BE SEALED SIMILARLY AFTER INSTALLATION OF ALL CABLING. CABLES SHALL BE INDEPENDENTLY SUPPORTED ON EITHER SIDE OF THE SLEEVE. SLEEVES SHALL NOT BE USED AS CABLE SUPPORTS. ANY CONDUIT(S) AND SLEEVE(S) ADDED BY THE SCS CONTRACTOR SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
10. IN THE EVENT CONTRACTOR IS REQUIRED TO REMOVE CEILING TILES, SUCH WORK SHALL NOT BREAK OR DISTURB GRID. REMOVAL OF THE CEILING GRID MUST BE COORDINATED WITH THE OWNERS REPRESENTATIVE. ALL INSULATION SHALL BE REPLACED IN ITS ORIGINAL LOCATION.
11. THE NUMBER OF CABLES IN EACH CONDUIT SHALL BE CONTROLLED TO ALLOW FOR FUTURE CABLE INSTALLATION AND TO STAY WITHIN THE MANUFACTURER'S MAXIMUM ALLOWABLE CABLE PULLING TENSION. CONDUIT FILL RATIOS SHALL NOT EXCEED THE CURRENT REQUIREMENTS OF THE CEC, ANSI/TIA-569-D, REFERENCE SECTION B.2, TABLES 1 AND 2 OF THIS DOCUMENT FOR ADDITIONAL REQUIREMENTS.
12. ALL BACKBONE CABLING WILL RUN THROUGH DEDICATED CONDUITS. ALL NEW CONDUITS WILL BE SUPPLIED WITH A PULL STRING BY THE CONTRACTOR. EXISTING CONDUITS SHALL BE PROVEN TO BE CLEAR BY THE SCS AND/OR LV CONTRACTOR PRIOR TO PULLING OF CABLES. SCS AND/OR LV CONTRACTOR SHALL SUPPLY PULL STRING AND PULL ROPE FOR THE INSTALLATION OF ALL CABLES IN EXISTING CONDUITS. FOR ALL CONDUITS LEFT WITH AVAILABLE CAPACITY, SCS AND/OR LV CONTRACTOR SHALL REPLACE PULL STRINGS DURING THE COURSE OF HIS WORK. SCS AND/OR LV CONTRACTOR MUST SEAL ALL CONDUITS WITH AN APPROVED SEALING COMPOUND.

TECHNOLOGY SYMBOL LEGEND:

ALL NOTES ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS

MARK	SYMBOL	DESCRIPTION	BACK BOX	PLASTER RING	MOUNTING HEIGHT	CONDUIT	MANUFACTURER	CABLE	CABLE COLOR / JACK COLOR	MAX. LOAD	NOTES
1	MDF	MDF	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXISTING
2	IDF	IDF	N/A	N/A	SEE PLANS	N/A	CHATSWORTH PRODUCTS	N/A	N/A	SEE SHEET T0.2-2	SEE EQUIPMENT SCHEDULE
WORKSTATIONS											
3		DATA	5" SQ., 2-1/8" DEEP	2-DEVICE	+16" TO BOTT.	1 EA. 1"C	PANDUIT	CAT6A	DATA: PURPLE / BEIGE VOICE(VOIP): GRAY / BLUE VOICE(NON-VOIP): GRAY / 110 BLOCK	N/A	DISTRICT WILL IDENTIFY VOIP AND NON-VOIP PHONE.
4	#D / #V	DATA / TELEPHONE OUTLET	5" SQ., 2-1/8" DEEP	2-DEVICE	+16" TO BOTT.	1 EA. 1"C	PANDUIT	CAT6A	DATA: PURPLE / BEIGE VOICE(VOIP): GRAY / BLUE VOICE(NON-VOIP): GRAY / 110 BLOCK	N/A	DISTRICT WILL IDENTIFY VOIP AND NON-VOIP PHONE.
5	WAP 2D	WAP DATA OUTLET	5" SQ., 2-1/8" DEEP	2-DEVICE	CEILING	1 EA. 1"C	PANDUIT	CAT6A	DATA: BLUE / WHITE	N/A	802.3BT TYPE 4 AND IN COMPLIANCE WITH ALL EIA / TIA STANDARDS.
6	2D WAP	WAP DATA OUTLET WEATHERPROOF	5" SQ., 2-1/8" DEEP	2-DEVICE	+108" TO BOTT.	1 EA. 1"C	PANDUIT	CAT6A	DATA: BLUE / WHITE	N/A	802.3BT TYPE 4 AND IN COMPLIANCE WITH ALL EIA / TIA STANDARDS.
TEACHING WALL											
7	HDMI	HDMI FACEPLATE	5" SQ., 2-1/8" DEEP	2-DEVICE	+14" TO BOTT.	1 EA. 1.24"C	SEE ONE-LINE	HDMI	N/A	N/A	N/A
8		PROMETHEAN BOARD DATA	5" SQ., 2-1/8" DEEP	2-DEVICE	+29" BELOW CEILING.	1 EA. 1"C	PANDUIT	CAT6A	DATA: PURPLE / BEIGE	N/A	N/A
CLOCK / INTERCOM PAGING SYSTEM											
9		CLOCK	PER MFR. GUIDELINES	PER MFR. GUIDELINES	+96" MIN. TO BOTT.	1 EA. 1"C	AMERICAN TIME	N/A	N/A	N/A	BATTERY OPERATED
10	S	CLOCK / SPEAKER COMBO	PER MFR. GUIDELINES	PER MFR. GUIDELINES	+96" MIN. TO BOTT.	1 EA. 1"C	ATLAS SOUND IED	N/A	IP - SDMF	N/A	N/A
11	S	INTERCOM SPEAKER	PER MFR. GUIDELINES	PER MFR. GUIDELINES	+96" MIN. TO BOTT.	1 EA. 1"C	ALGO	CAT6A	INTERCOM: GREEN / GREEN	N/A	PROVIDE ONE(1) DATA DROP
12	S WP	WALL MOUNTED INTERCOM SPEAKER, WEATHERPROOF	PER MFR. GUIDELINES	PER MFR. GUIDELINES	+108" MIN. TO BOTT.	1 EA. 1"C	ALGO	CAT6A	INTERCOM: GREEN / GREEN	N/A	N/A
INTRUSION SECURITY SYSTEM											
13	ICP	INTRUSION MAIN ALARM CONTROL PANEL	N/A	N/A	+60" TO BOTT.	N/A	ADEMCO	22 AWG	N/A	N/A	N/A
14	IMD	INTRUSION MOTION SENSOR	5" SQ., 2-1/8" DEEP	1-DEVICE	SEE PLANS	N/A	ADEMCO	22 AWG	N/A	N/A	N/A
15	IDC	DOOR CONTACT	N/A	N/A	DOOR FRAME	N/A	ADEMCO	22 AWG	N/A	N/A	COORDINATE WITH DIVISION 8 FOR DOOR HARDWARE
16	IKP	INTRUSION KEYPAD	5" SQ., 2-1/8" DEEP	1-DEVICE	+45" MIN. TO BOTT.	N/A	ADEMCO	22 AWG	N/A	N/A	N/A
ACCESS CONTROL											
17	ACP	ACCESS CONTROL PANEL	N/A	N/A	SEE PLANS	N/A	N/A	22 AWG	N/A	N/A	COORDINATE WITH ALAMO ALARM COMPANY (DISTRICT INTRUSION AND ACCESS CONTROL CONTRACTOR)
18	CR	CARD READER	5" SQ., 2-1/8" DEEP	1-DEVICE	SEE PLANS	N/A	N/A	22 AWG	N/A	N/A	COORDINATE WITH DIVISION 8 FOR DOOR HARDWARE
MISC. SYSTEM											
19	ES	ENTRY STATION	N/A	N/A	+60" TO BOTT.	N/A	N/A		N/A	N/A	EXISTING
20	2D	PROJECTOR	5" SQ., 2-1/8" DEEP	1-DEVICE	SEE PLANS	N/A	N/A		N/A	N/A	EXISTING
21		COAX OUTLET	5" SQ., 2-1/8" DEEP	1-DEVICE	+45" MIN. TO BOTT.	N/A	N/A		N/A	N/A	EXISTING TO DEMO CABLING, PATHWAY, AND ALL ASSOCIATED PATHWAY
22	TV	LED TV	N/A	N/A	+45" MIN. TO BOTT.	N/A	N/A		N/A	N/A	EXISTING

TECHNOLOGY ABBREVIATIONS

ACP	ACCESS CONTROL PROCESSOR	(N)	NEW
AFF	ABOVE FINISHED FLOOR	NC	NORMALLY CLOSED
AHJ	AUTHORITY HAVING JURISDICTION	NIC	NOT IN CONTRACT
AMP	AMPLIFIER	NO	NORMALLY OPEN
AOR	ARCHITECT OF RECORD	NTS	NOT TO SCALE
AUTO	AUTOMATIC	OC	ON CENTER
AUX	AUXILIARY	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
AWG	AMERICAN WIRE GAUGE	OFOI	OWNER FURNISHED, OWNER INSTALLED
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS CONDUIT	OSP	OUTSIDE PLANT
C	CONDUIT	PB	PULL BOX
CATV	COMMUNITY ANTENNA TELEVISION	POE	POWER OVER ETHERNET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	PR	PAIR OF CONDUCTORS
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	PVC	POLYVINYL CHLORIDE
CL	CENTERLINE	PWR	POWER
CSFM	CALIFORNIA STATE FIRE MARSHAL	(RR)	REMOVE AND REPLACE
DIV	DIVISION	(RL)	REMOVE AND RELOCATE
DC	DOOR CONTACT	RCP	REFLECTED CEILING PLAN
(E)	EXISTING	RFI	REQUEST FOR INFORMATION
EC	ELECTRICAL CONTRACTOR	RMC	RIGID METALLIC CONDUIT
ECS	EMERGENCY COMMUNICATION SYSTEM	SCS	STRUCTURED CABLING SYSTEM
EF	ENTRANCE FACILITY FOR TELECOMMUNICATION	SM	SINGLE MODE
EMT	ELECTRIC METALLIC TUBING	STR	STRANDS (OF FIBER)
ER	EQUIPMENT ROOM	STP	SHIELDED TWISTED PAIR
EXT	EXTERIOR	SEC	SECURITY
(F)	FUTURE	TBB	TELECOMMUNICATIONS BONDING BACKBONE
FACP	FIRE ALARM CONTROL PANEL	TELCO	TELEPHONE COMPANY
FATC	FIRE ALARM TERMINAL CABINET	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FABP	FIRE ALARM BOOSTER PANEL	TMGB	TELECOMMUNICATION MAIN GROUNDING BUSBAR
FB	FLOORBOX	TYP	TYPICAL
FO	FIBER OPTIC	UNO	UNLESS NOTED OTHERWISE
GC	GENERAL CONTRACTOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
IDF	INTERMEDIATE DISTRIBUTION FRAME	UTP	UNSHIELDED TWISTED PAIR
INT	INTERIOR	V	VOICE
IP	INTERNET PROTOCOL	WB	WALL BOX
JB	JUNCTION BOX	WP	WEATHERPROOF
LV	LOW VOLTAGE		
MDF	MAIN DISTRIBUTION FRAME		
MIC	MICROPHONE		
MM	MULTIMODE		
MPOE	MINIMUM POINT OF ENTRY		

CODES AND STANDARDS

APPLICABLE PROJECT BUILDING CODES, EFFECTIVE AS OF DATE: JANUARY 1, 2023

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA FIRE CODE (CFC)
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
2022 CALIFORNIA REFERENCED STANDARDS CODE
2022 NFPA 72: NATIONAL TECHNOLOGY AND SIGNALING CODE
2022 NFPA 1221: STANDARD FOR THE INSTALLATION, MAINTENANCE, AND USE OF EMERGENCY SERVICES COMMUNICATIONS SYSTEMS

APPLICABLE INDUSTRY STANDARDS, CURRENT EDITION

TIA-568: GENERIC CABLE STANDARDS
TIA-568-1: COMMERCIAL CABLE STANDARDS
TIA-568-2: BALANCED TWISTED PAIR CABLING AND COMPONENTS TIA-568-3: OPTICAL CABLING FEEDER COMPONENTS
TIATIA-568-4: BROADBAND COAX CABLING AND COMPONENTS TIA-569: TELECOMMUNICATION PATHWAYS AND SPACES
TIA-570: RESIDENTIAL TELECOMMUNICATIONS
TIA-598: OPTICAL FIBER CABLE COLOR CODING
TIA-606: ADMINISTRATIVE LABELING STANDARDS
TIA-607: TELECOMMUNICATIONS BONDING AND GROUNDING TIA-758: TELECOMMUNICATIONS OUTSIDE PLANT
TIA-526-7: SINGLE-MODE FIBER STANDARDS
TIA-526-14: MULTI-MODE FIBER STANDARDS

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
T0.1	TECHNOLOGY COVER SHEET
T0.2	TECHNOLOGY ONE-LINE DIAGRAM AND DETAILS
T1.2	TECHONOLOGY SITE PLAN
T2.0	TECHONOLOGY FLOOR PLAN

DSA APP. NO: 02-123245

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JPG - RK, EM 240488
PM - DESIGN TEAM PROJECT NO.

SUSD
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Since 1852
STOCKTON, CA 95203

PRIMARY YEARS ACADEMY PORTABLES

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STOCKTON, CA 95204

REVISIONS

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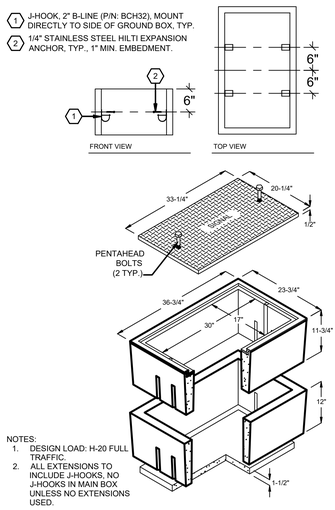
CONSTRUCTION DOCUMENTS

TECHNOLOGY COVER SHEET

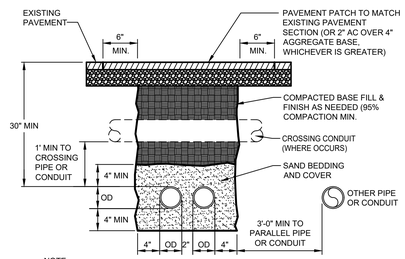
T0.1



NOTES:
1. DESIGN LOAD: H-20 FULL TRAFFIC.
2. ALL EXTENSIONS TO INCLUDE J-HOOKS. NO J-HOOKS IN MAIN BOX UNLESS NO EXTENSIONS USED.

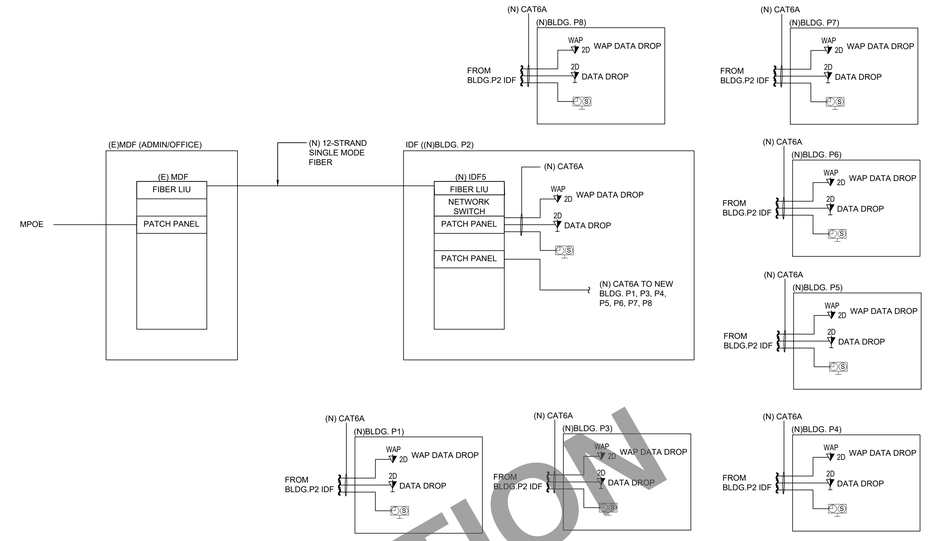
CATALOG NUMBER	PRODUCT	DESCRIPTION
CYB1730 CYN36SL	BOX WITH SLAB	REINFORCED CONCRETE
CY173051JH	COVER	STEEL CHECKER PLATE (H20 HEAVY DUTY)
CYB1730EXT	EXTENSION	12" HIGH REINFORCED CONCRETE
CYHDB1730	HOLD DOWN BOLT	HOLD DOWN PENTAHEAD BOLT (2 EA.)

SIGNAL GROUND BOX 17"X30" INTERNAL
SCALE : NONE — 7 / T0.2

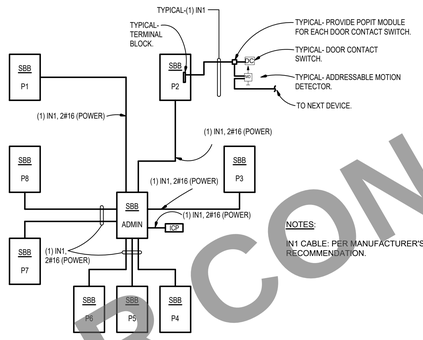


NOTE:
TRENCHING LOCATED IN PAVED AREAS - ALL EARTHWORK AND REPAIR SHALL BE IN ACCORDANCE WITH AGENCY THAT HAS JURISDICTION.

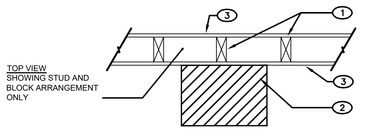
TYPICAL TRENCH DETAIL
SCALE : NONE — 4 / T0.2



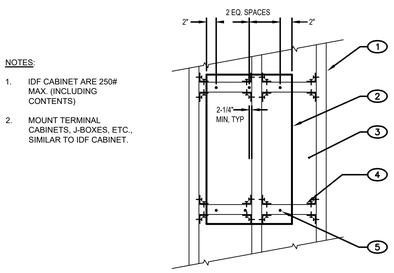
DATA ONE-LINE DIAGRAM
SCALE : NTS — 1 / T0.2



TYPICAL SIGNAL SYSTEM WIRING DIAGRAM
SCALE : NTS — 5 / T0.2



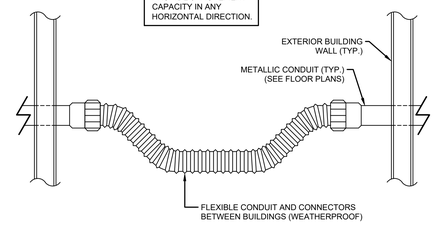
KEY NOTES
1. WOOD STUD
2. SURFACE MOUNTED IDF CABINET, SEE NOTE #1
3. SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS)
4. BLOCKING (MATCH STUD DEPTH) ATTACH TO (E) VERTICAL STUDS WITH A34 CLIPS EACH END, TOP AND BOTTOM - AVOID CONFLICT OF NAILS EACH SIDE OF STUD
5. 5/16" X 2 1/2" LAG SCREWS (BY ELECTRICAL CONTRACTOR)



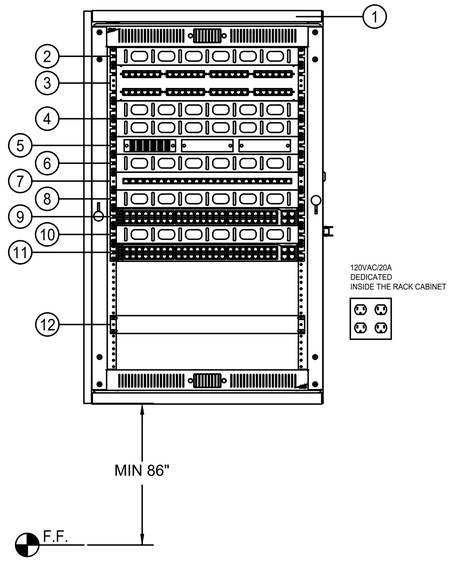
NOTES:
1. IDF CABINET ARE 250# MAX. (INCLUDING CONTENTS)
2. MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO IDF CABINET.

TYPICAL IDF CABINET WOOD FRAMING MOUNTING DETAIL
SCALE : NTS — 6 / T0.2

NOTE:
PROVIDE 6" MOVEMENT CAPACITY IN ANY HORIZONTAL DIRECTION.



SEISMIC JOINT CONDUIT DETAIL
SCALE : NONE — 2 / T0.2



TYPICAL IDF
SCALE : NTS — 3 / T0.2

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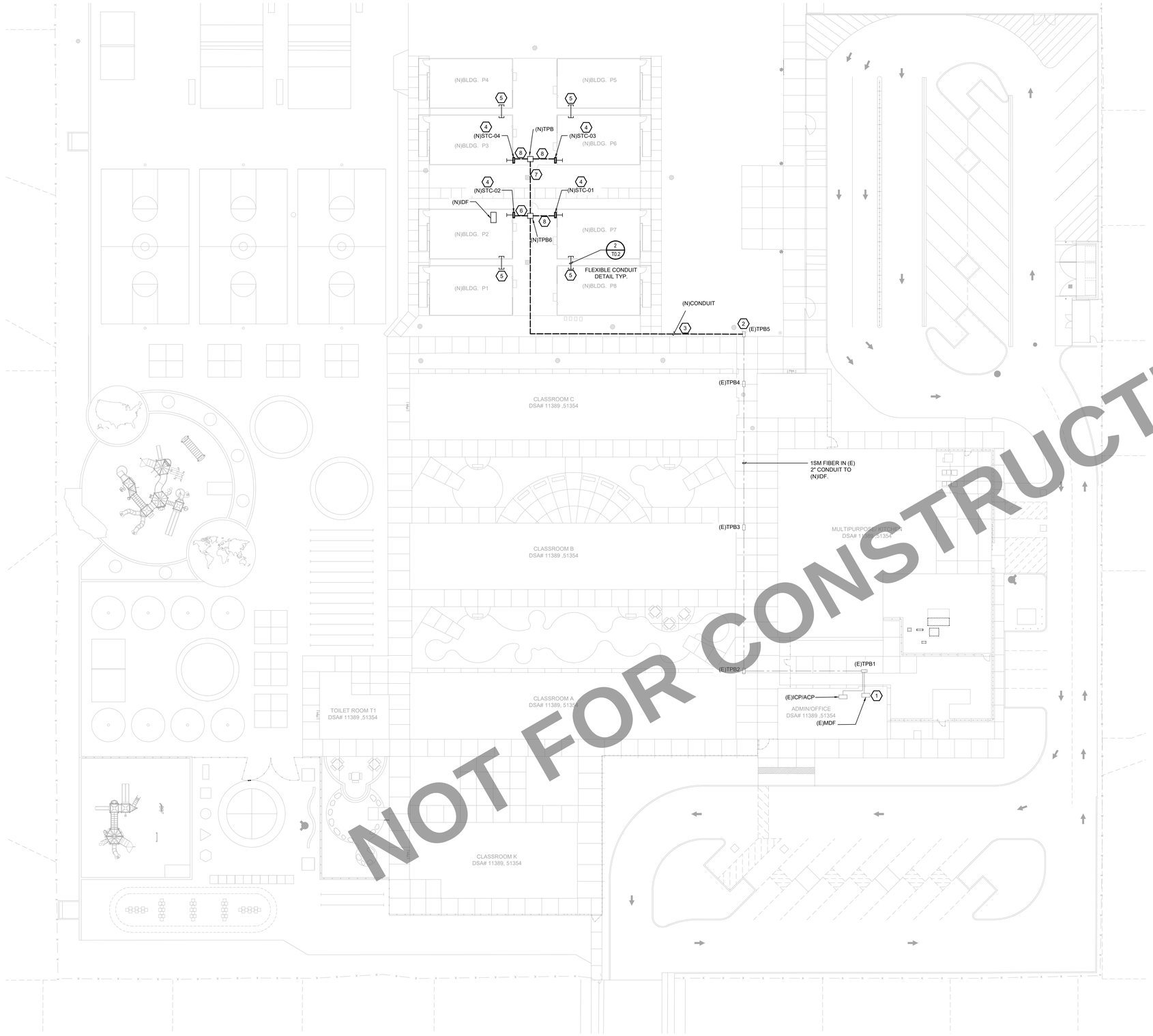
TECHNOLOGY ONE-LINE DIAGRAM AND DETAILS

T0.2



TECHNOLOGY SITE PLAN

SCALE : 1" = 20'-0"

1 / T1.2

N

KEY NOTES:

1. PROVIDE (N) 1SM FIBER TO (N)IDF IN (N)BLDG. P2.
2. SPLICE MOTION/CONTACT CABLE TO RUN NEW CONNECTION TO THE NEW DEVICES.
3. (N)1SM FIBER TO (N)IDF IN (N)1-2" CONDUIT. (N)2-16AWG INTRUSION IN (N)1-2" CONDUIT.
4. (N)STC MAX WT. 19LBS. 6.6"X8.6"X2.6".
5. (N)12 CAT6A CABLE IN (N)1-1" FLEX CONDUIT. (N)2-16AWG INTRUSION IN (N)1-1" FLEX CONDUIT.
6. (N)1SM FIBER IN (N)1-2" CONDUIT. 2-16AWG INTRUSION IN (N)1-2" CONDUIT. (N)3-2" CONDUIT RUNNING (N)24 CAT6A CABLE EACH.
7. 2-16AWG INTRUSION IN (N)1-2" CONDUIT. (N)2-2" CONDUIT RUNNING (N)24 CAT6A CABLE EACH.
8. 2-16AWG INTRUSION IN (N)1-2" CONDUIT. (N)1-2" CONDUIT RUNNING (N)24 CAT6A CABLE.

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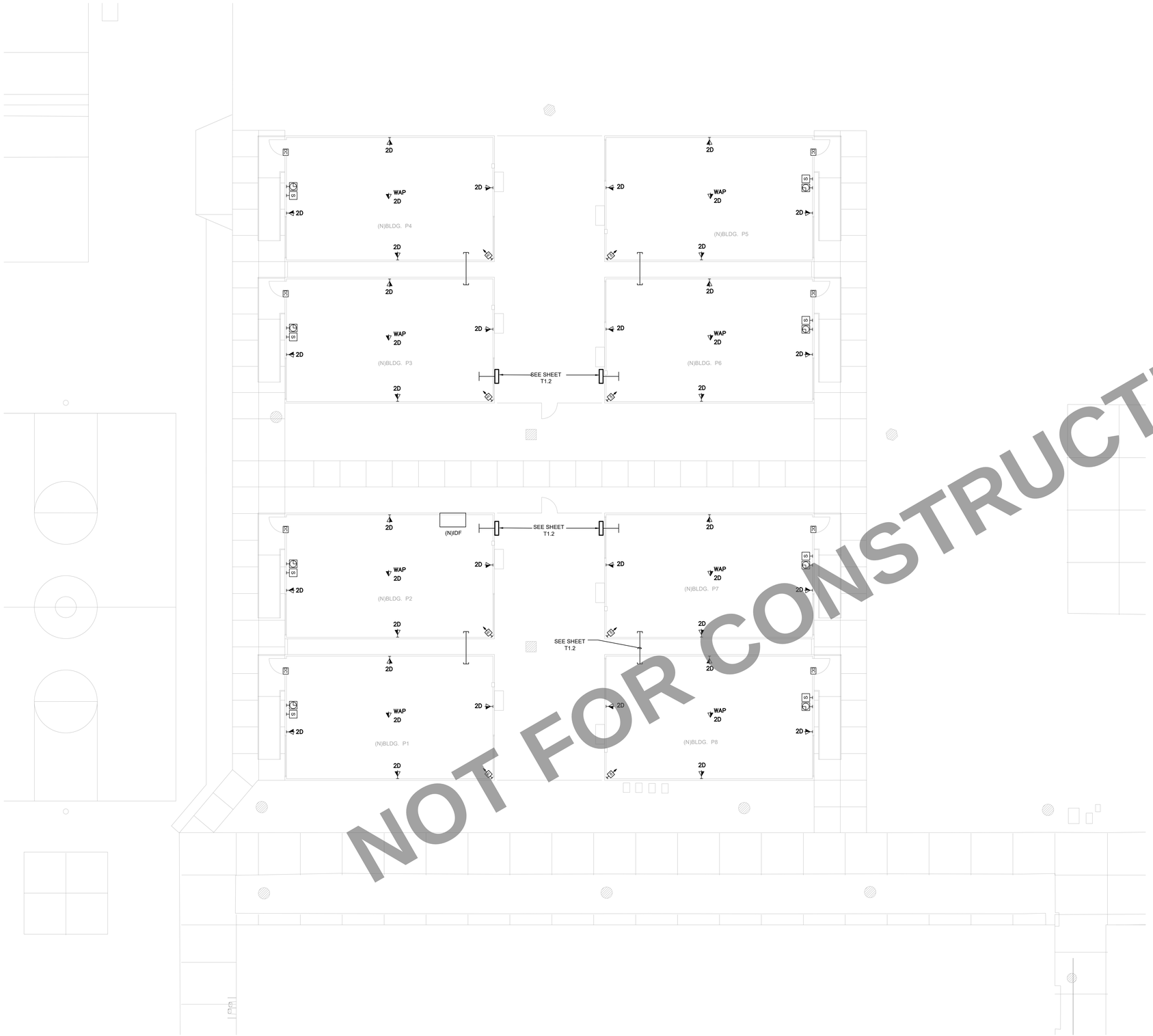
TECHONOLOGY SITE PLAN

T1.2



TECHNOLOGY FLOOR PLAN

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

1 / T2.0

N

DSA APP. NO: 02-123245

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EXP. 03/31/28
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REGISTERED PROFESSIONAL ENGINEER
JOHN D. GUMATO
E 24187
EXPIRES 9/30/28
ELECTRICAL
STATE OF CALIFORNIA

DATE SIGNED: _____

capital engineering
RANCHO CORDOVA, CALIFORNIA
JPG - RK, EM 240488
PM - DESIGN TEAM PROJECT NO.

SUSD
Stockton Unified School District
Since 1852
STOCKTON, CA 95203

PRIMARY YEARS ACADEMY PORTABLES

3830 WEBSTER AVE.
STOCKTON, CA 95204

REVISIONS

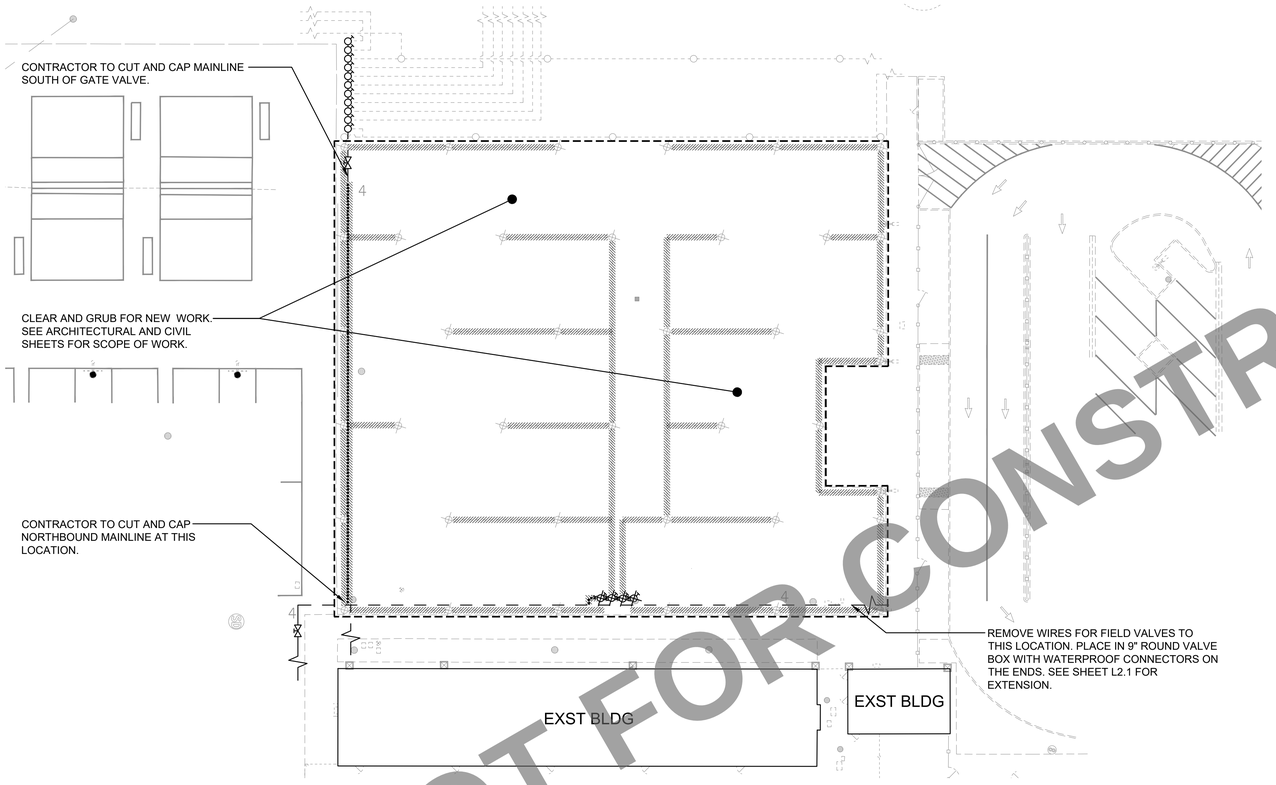
No.	Description	Date

PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

TECHONOLOGY FLOOR PLAN

T2.0



KEY	IRRIGATION DEMOLITION LEGEND
	EXISTING AUTOMATIC CONTROL VALVE TO REMAIN
	EXISTING AUTOMATIC CONTROL VALVE CONTRACTOR TO REMOVE AND RELINQUISH EXISTING VALVES AND VALVE BOXES TO THE OWNER.
	EXISTING SPRINKLER HEAD TO REMAIN
	EXISTING SPRINKLER HEAD TO RELINQUISH CONTRACTOR TO REMOVE AND RELINQUISH EXISTING VALVES AND VALVE BOXES TO THE OWNER.
	EXISTING IRRIGATION MAINLINE TO REMAIN
	EXISTING IRRIGATION MAINLINE TO ABANDON
	EXISTING LATERAL LINE TO REMAIN
	EXISTING LATERAL LINE TO ABANDON
	EXISTING GATE VALVE TO REMAIN

DEMOLITION IRRIGATION NOTE: SEE SHEET L2.1 FOR NEW MAINLINE AND IRRIGATION CONTROL WIRE ROUTE. THE IRRIGATION CONTROL VALVES FOR THE FIELD NEED TO REMAIN OPERATIONAL DURING THE ENTIRE CONSTRUCTION PROCESS. CONTRACTOR SHALL RE-ROUTE MAINLINE AND CONTROL WIRES DURING THE DEMOLITION PHASE OF THE PROJECT. THE MAINLINE AND VALVES SHALL NOT BE DISCONNECTED FOR MORE THAN 48 HOURS.

PRE-CONSTRUCTION SPRINKLER IRRIGATION NOTES

1. PRIOR TO START OF CONSTRUCTION CONTRACTOR REQUIRED TO CONTACT THE DISTRICT GROUNDS MANAGER TO SET UP A MEETING ON SITE TO OPERATE THE EXISTING SPRINKLER IRRIGATION SYSTEM AND DISCUSS THE MODIFICATIONS THAT ARE TO BE MADE TO THE EXISTING SYSTEM TO ACCOMMODATE FOR THE NEW CONSTRUCTION.
2. CONTRACTOR TO OPERATE AND PROGRAM EXISTING SPRINKLER IRRIGATION SYSTEM THAT IS TO REMAIN IN ORDER TO PROVIDE WATER TO THE EXISTING LANDSCAPE TO REMAIN.
3. CONTRACTOR TO REMOVE ALL EXISTING PIPE AND SPRINKLER HEADS WHEN THEY ARE IN NEW PLANTING AREAS.
4. CONTRACTOR TO RESTORE AND REPAIR ANY EXISTING SPRINKLER IRRIGATION SYSTEM OR EXISTING LANDSCAPE WHICH IS IN AREAS TO REMAIN THAT IS DAMAGED BY NEW WORK.
5. ALL WORK TO EXISTING SPRINKLER IRRIGATION SYSTEM TO BE COMPLETED PRIOR TO SITE DEMOLITION.

20' 10' 0 20' 40'

SCALE: 1"= 20'-0"

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LANDSCAPE ARCHITECT
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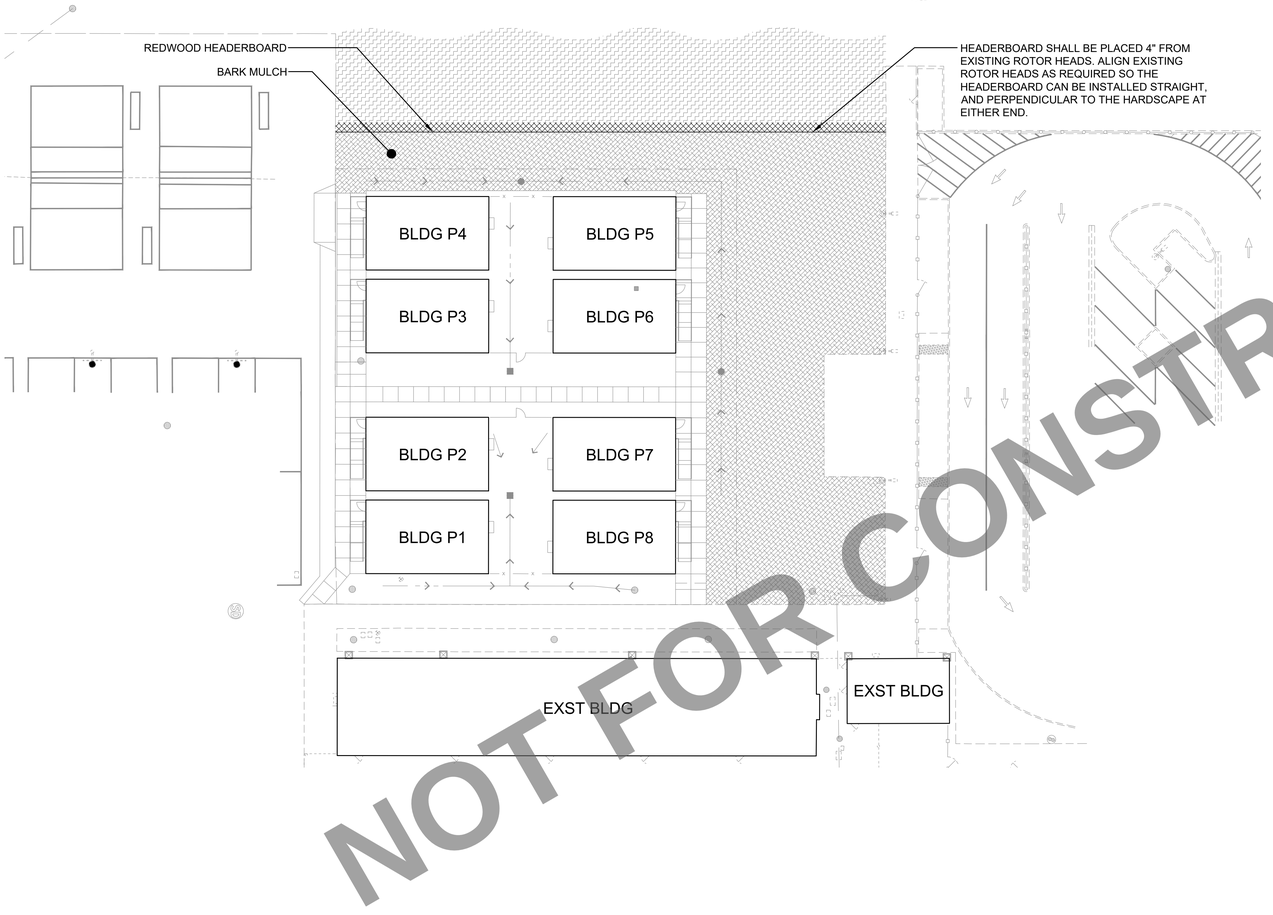
CONSTRUCTION DOCUMENTS

SPRINKLER IRRIGATION DEMOLITION PLAN

L0.1



KEY	LANDSCAPE LEGEND
	TURF REPAIR MINIMUM REPAIR WIDTH SHOWN. REPAIR SHALL BE SOD. CONTRACTOR IS RESPONSIBLE TO REPLACE ANY EXISTING SOD/LAWN DAMAGED DURING CONSTRUCTION ACTIVITIES. SEE DETAIL 3/L3.1
	BARK MULCH 4" DEPTH. SEE DETAIL 2/L3.1
	EXISTING LANDSCAPE AND SPRINKLER AREAS TO REMAIN
	REDWOOD HEADERBOARD SEE DETAIL 1/L3.1

GENERAL LANDSCAPE REQUIREMENTS/NOTES

1. NO PLANTING SHALL BE STARTED UNTIL SPRINKLER IRRIGATION SYSTEM HAS BEEN TESTED BY CONTRACTOR IN PRESENCE OF OWNER'S REPRESENTATIVE AND NOTED DEFICIENCIES CORRECTED.
2. NO PLANTING SHALL BE STARTED UNTIL SOIL PREPARATION AND FINISH GRADING OPERATIONS HAVE BEEN COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
3. SEE SHEET L3.1 FOR PLANTING INSTALLATION DETAILS.

ENVIRONMENTAL REQUIREMENTS:

GENERAL: PROCEED WITH WORK IN ORDERLY AND TIMELY MANNER TO COMPLETE INSTALLATION OF LANDSCAPING WITHIN CONTRACT LIMITS.

PROTECTION:

EXISTING CONSTRUCTION: EXECUTE WORK IN AN ORDERLY AND CAREFUL MANNER TO PROTECT NEW CONCRETE WALKS, WORK OF OTHER TRADES, AND OTHER IMPROVEMENTS.

EXISTING UTILITIES: DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED, TO MINIMIZE POSSIBILITY OF DAMAGE TO UNDERGROUND UTILITIES. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY ALL PARTIES CONCERNED. BE RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES WITHIN CONSTRUCTION AREA; REPAIR DAMAGE TO UTILITIES THAT OCCUR AS A RESULT OF OPERATIONS OF THIS WORK.

LANDSCAPING: PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED AT NO ADDITIONAL COST TO CONTRACT.

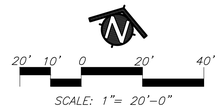
ADVERSE CONDITIONS: WHEN CONDITIONS DETRIMENTAL TO SOD OR PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, NOTIFY OWNER'S REPRESENTATIVE BEFORE STARTING WORK.

PLANTING AND TURF INSTALLATION SEASONS AND CONDITIONS

NO WORK SHALL BE DONE WHEN GROUND IS TOO WET OR IN AN OTHERWISE UNSUITABLE CONDITION FOR AMENDING SOIL, FINISH GRADING OR PLANTING.

EXISTING LANDSCAPE AND SPRINKLER IRRIGATION SYSTEM

WORK LIMITS OF THIS PROJECT EXTEND INTO AREAS THAT WERE PREVIOUSLY DEVELOPED UNDER OTHER CONTRACTS. PRIOR TO START OF WORK, CONTRACTOR SHALL MEET WITH OWNER'S REPRESENTATIVE TO LOCATE ALL CONNECTIONS CALLED FOR ON DRAWINGS. WORK LIMITS/FENCING SHALL BE LAID OUT BY CONTRACTOR AND VERIFIED BY OWNER'S REPRESENTATIVE. FENCE TO BE INSTALLED AND IRRIGATION SYSTEM SHALL BE TESTED WITH CONTRACTOR, INSPECTOR, AND OWNER'S REPRESENTATIVE PRESENT. DEFICIENCIES SHALL BE NOTED AT THIS TIME AND ARE THE RESPONSIBILITY OF OWNER. AT COMPLETION OF WORK, SYSTEM WILL AGAIN BE TESTED, DEFICIENCIES NOTED AT THIS TIME THAT WERE NOT NOTED PREVIOUSLY WILL BE RESPONSIBILITY OF CONTRACTOR. EXISTING LANDSCAPE THAT HAS BEEN DAMAGED DUE TO CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. PRIOR TO MAKING ANY CONNECTION TO MAIN LINE, CONTRACTOR SHALL NOTIFY OWNER 1 WEEK IN ADVANCE SO ADJUSTMENTS TO EXISTING WATERING PROGRAMS CAN BE MADE.



SCALE: 1"= 20'-0"

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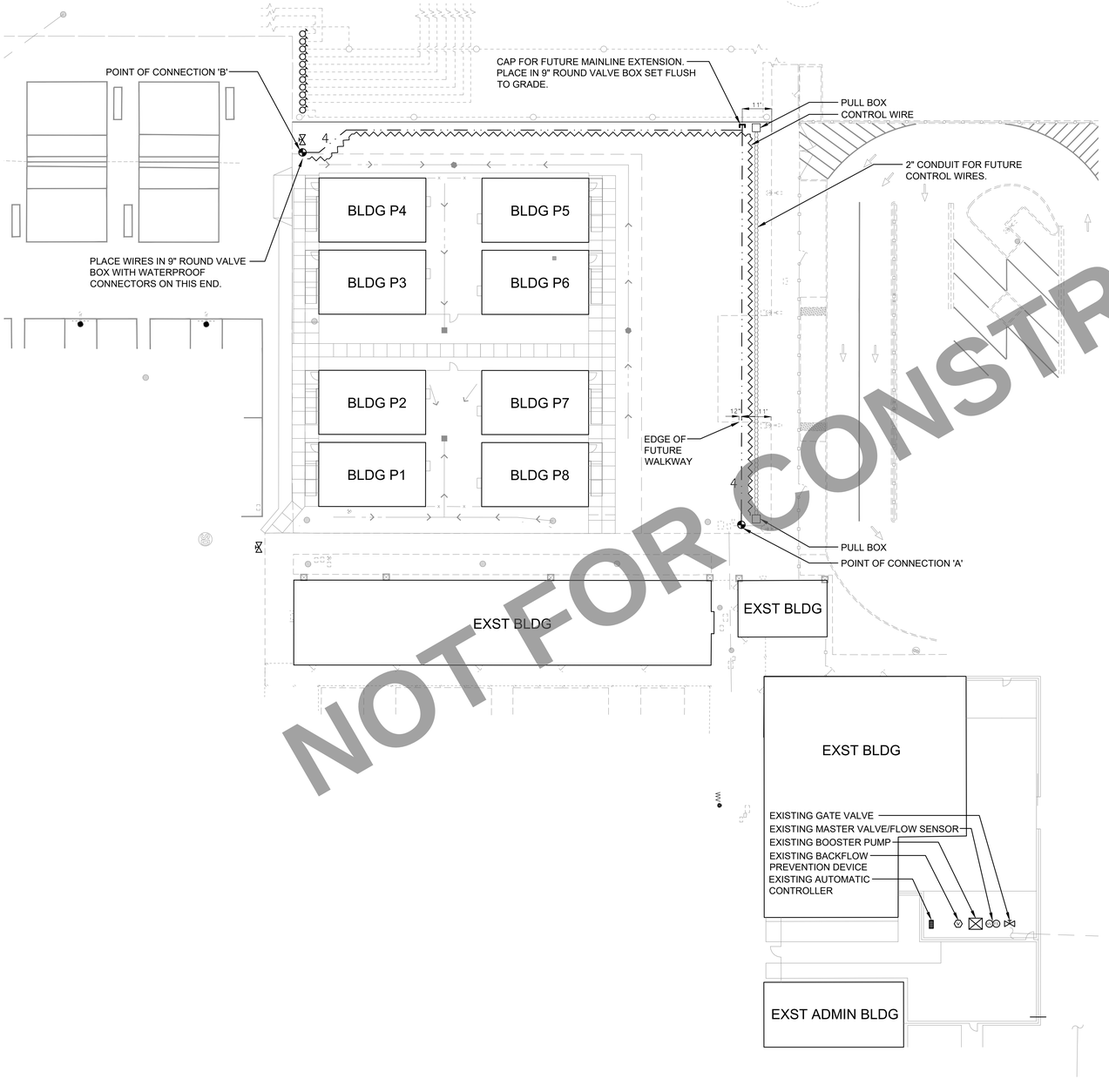
CONSTRUCTION DOCUMENTS

LANDSCAPE PLANTING PLAN

L1.1



KEY	SPRINKLER IRRIGATION LEGEND
	EXISTING AUTOMATIC CONTROLLER: RAINBIRD CONTROL SYSTEM: ISAE-RB3 -40/SP/ETH-PME/-LFSM/RSE
	POINT OF CONNECTION 'A' AND 'B': STATIC WATER PRESSURE PRIOR TO WATER METER: 62 PSI DYNAMIC WATER PRESSURE AFTER IRRIGATION BACKFLOW DEVICE: 45 PSI IRRIGATION SYSTEM OPERATING WATER PRESSURE: 55 PSI CONTRACTOR SHALL LOCATE EXISTING MAINLINE AS SHOWN. CONNECT AT THE POINTS SHOWN AND EXTEND AS INDICATED ON DRAWINGS.
	EXISTING REDUCED PRESSURE BACKFLOW PREVENTION DEVICE:
	EXISTING BOOSTER PUMP:
	EXISTING MASTER VALVE/FLOW SENSOR:
	EXISTING GATE VALVE:
	PRESSURE MAIN LINE: TYPE: 4" SIZE. FOR 3 1/2" SIZE AND LARGER, ASTM D2241 SDR 21, 200 PSI, RUBBER GASKETED WITH LEEMCO FITTINGS. SEE DETAILS 1-5/L3.2 TRENCH DEPTH: IN PLANTED AREAS: 24" MINIMUM COVER. UNDER PAVED AREAS: 24" MINIMUM COVER. PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
	PULL BOX AND 2" CONDUIT: SEE DETAIL 8/L3.2
	CONTROL WIRE: SPLICE NEW CONTROL WIRES TO THE EXISTING CONTROL WIRES WITH WATERPROOF CONNECTORS AND 5' EXTENSIONS. PLACE SPLICES IN 9" ROUND VALVE BOX SET FLUSH TO FINISH GRADE OF SOIL.

SPRINKLER IRRIGATION NOTES

1. COMPOSITE BASE SHEET: PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE BASE SHEET. THE COMPOSITE BASE SHEET IS A COMPILATION OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE BASE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS. ANY DISCREPANCIES NEED TO BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK.
2. DESIGN PRESSURE SHOWN ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT SERVING SITE. VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE IS A DISCREPANCY, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING SO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR.
3. DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
4. SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
5. ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
6. TESTING:
   A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:
      SYSTEMS WITH BOOSTER PUMP:
      MAIN LINE - AT 100 PSI FOR 4 HOURS.
      LATERAL LINES - AT 100 PSI FOR 2 HOURS.
      SYSTEMS WITH OUT BOOSTER PUMP:
      MAIN LINE - AT STATIC PSI FOR 4 HOURS.
      LATERAL LINES - AT STATIC PSI FOR 2 HOURS.
   B. COVERAGE TEST: NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATION. REQUEST OWNER'S REPRESENTATIVES PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE.
7. LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
8. INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE.
9. CONTROL WIRE SHALL BE UF-14, COLOR FOR LEAD AND WHITE FOR COMMON. SPLICES SHALL BE PERMITTED AT VALVE BOX LOCATIONS ONLY.
10. PROVIDE AND INSTALL AUTOMATIC CONTROLLER AND UF-14 CONTROL WIRE. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE 110V SERVICE AND SERVICE HOOKUP FROM POWER SOURCE TO AUTOMATIC CONTROLLER.
11. COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.
12. NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNER'S REPRESENTATIVE.
13. FOR SPRINKLER IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L3.2.

20' 10' 0 20' 40'

SCALE: 1"= 20'-0"

DSA APP. NO: 02-123245

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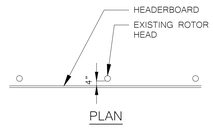
CONSTRUCTION DOCUMENTS

SPRINKLER IRRIGATION PLAN

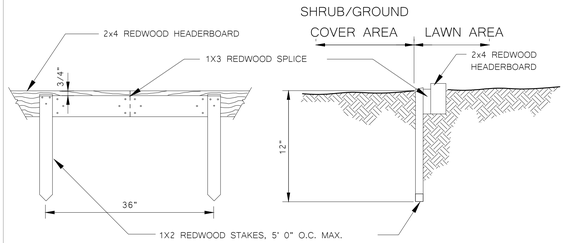
L2.1

NOTES:

1. WHEREVER POSSIBLE INSTALL STAKES AND SPLICES ON SHRUB/GROUNDCOVER SIDE.
2. ALL LUMBER TO BE REDWOOD CONSTRUCTION ROUGH (CALIFORNIA REDWOOD ASSOCIATION GRADING)
3. LAMINATE 1X4 BOARDS FOR CURVES. USE 1X3 REDWOOD AT SPLICES. STAGGER SPLICES.



PLAN

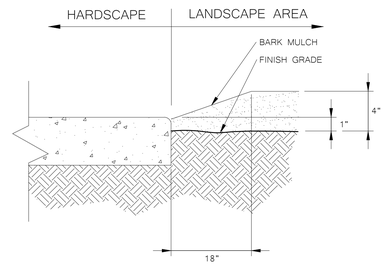


ELEVATION SECTION

1 REDWOOD HEADERBOARD DETAIL

NOTES:

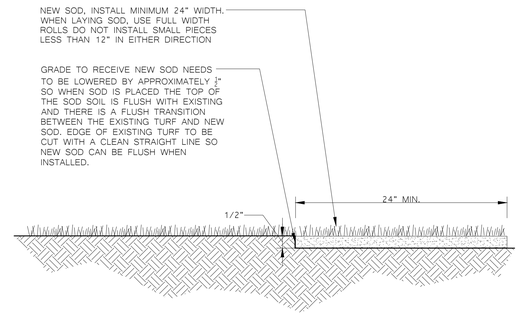
1. FINISH GRADE OF SOIL TO BE 1" BELOW ADJACENT HARDSCAPE FOR BOTH LAWN AREAS AND PLANTER BED AREAS
2. BARK MULCH DEPTH DOES NOT DICTATE THE ELEVATION OF THE FINISH GRADE
3. BARK MULCH TO BE FEATHERED DOWN TO 1" DEPTH, 12" FROM EDGE OF HARDSCAPE



2 LANDSCAPE GRADE ADJACENT TO HARDSCAPE DETAIL

NOTE:

1. SEE SPECIFICATIONS FOR SOD BLEND.



3 TURF REPAIR WITH SOD DETAIL

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LANDSCAPE PLANTING INSTALLATION DETAILS

L3.1

DISTANCE CHART

REFER TO THE FOLLOWING TABLE THAT LISTS THE LENGTH (IN FEET) FOR EACH SIZE/TYPE FITTING WITHIN WHICH ALL JOINTS MUST BE RESTRAINED. ALL FITTINGS AND JOINT RESTRAINTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS & SPECIFICATIONS.

AS AN EXAMPLE, IF YOU ARE INSTALLING A 3" MAINLINE WITH A DIRECTIONAL CHANGE OF 90°, REFER TO CHART UNDER PIPE SIZE TO 3" AND UNDER BENDS 90 YOU WILL SEE THE DISTANCE OF 11'. IF THERE ARE ANY JOINTS (I.E. VALVE, BELL, ETC.) YOU MUST INSTALL A JOINT RESTRAINT ON THAT JOINT WITHIN 11' OF THE 90° MAINLINE DIRECTIONAL CHANGE.

PIPE SIZE	BENDS				REDUCERS			DEAD END	GATE VALVE
	11°	22°	45°	90°	1 STEP	2 STEP	3 STEP		
2"	1'	1'	2'	6'	-	-	-	19'	10'
2.5"	1'	2'	4'	9'	4'	-	-	23'	12'
3"	2'	3'	6'	11'	8'	10'	-	30'	15'
4"	2'	4'	9'	20'	14'	20'	31'	45'	23'
6"	3'	6'	13'	29'	30'	40'	53'	63'	31'
8"	4'	8'	15	38'	33'	55'	63'	75'	38'
10"	5'	9'	19'	45'	36'	56'	75'	96'	48'
12"	5'	10'	21'	53'	38'	60'	83'	112'	56'

NOTE: STEP REDUCTION EXAMPLE: 1 STEP (8 X 6), 2 STEP (8 X 4), 3 STEP (8 X 3)

INSTALLATION CHART

REFER TO THE FOLLOWING TABLE WHICH LISTS THE NUMBER OF BOLTS, SIZE, AND TORQUE FOR EACH BOLT IN REFERENCE TO THE SIZE OF PIPE WHICH IS BEING RESTRAINED.

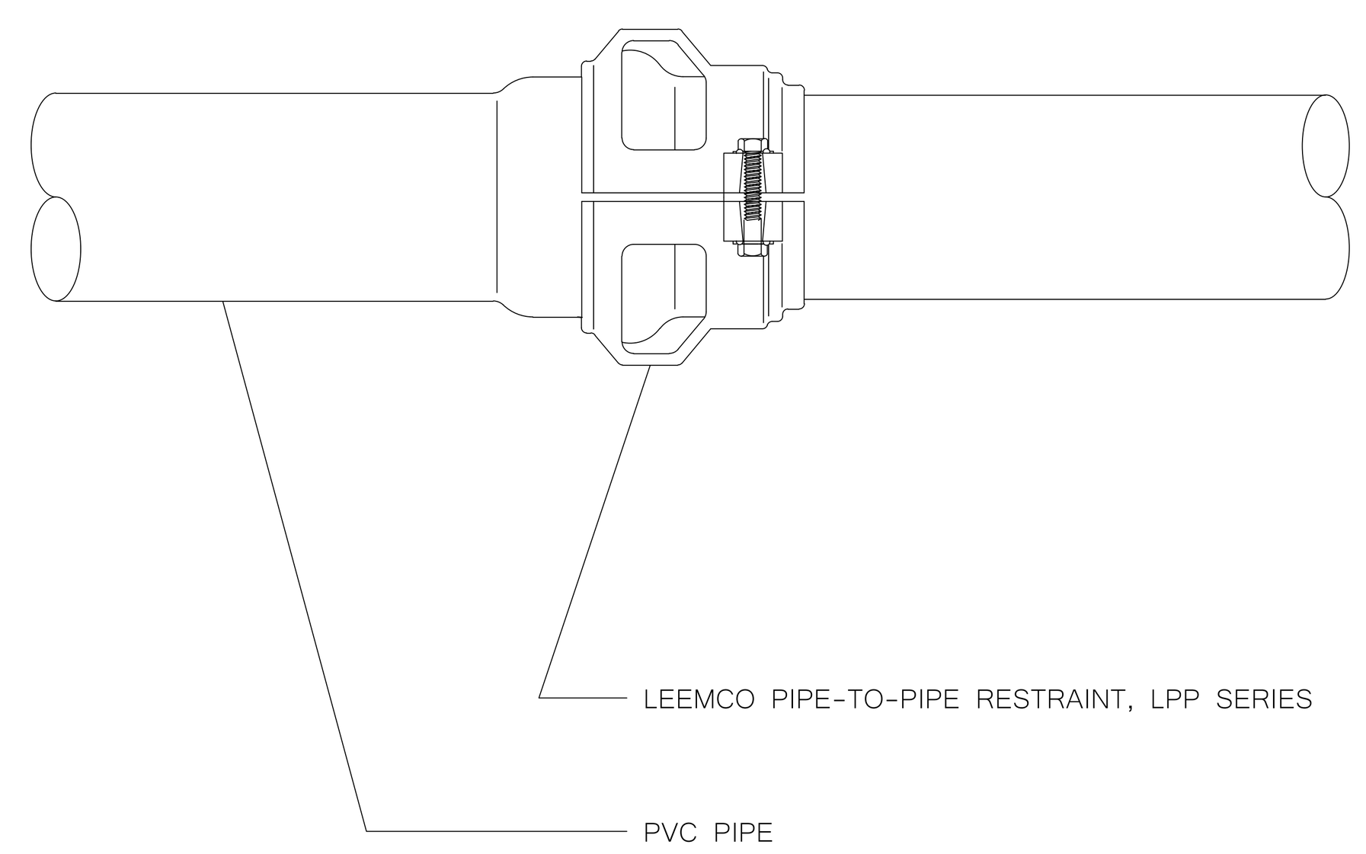
AS AN EXAMPLE, IF YOU HAVE A 3" PIPE, YOU WILL NEED 2 BOLTS THAT ARE 3/8 X 2.5" AND TIGHTEN THEM WITH A TORQUE WRENCH TO 20 FT-LBS.

PIPE SIZE	NO. BOLTS	BOLT SIZE	TORQUE FT-LBS.
2"	2	3/8" x 2.5"	20
2.5"	2	3/8" x 2.5"	20
3"	2	3/8" x 2.5"	20
4"	2	1/2" x 3.5"	50
6"	2	1/2" x 3.5"	50
8"	4	1/2" x 4"	50
10"	4	5/8" x 5.5"	100
12"	4	5/8" x 5.5"	100

CONTACT NUNZIO DICHRISTOPHER @ (916) 202-1333, THE LEEMCO REPRESENTATIVE, FOR ALL QUESTIONS CONCERNING LEEMCO PRODUCTS. COORDINATE AN INSTALLATION CLINIC WITH NUNZIO PRIOR TO INSTALLING THE MAINLINE.

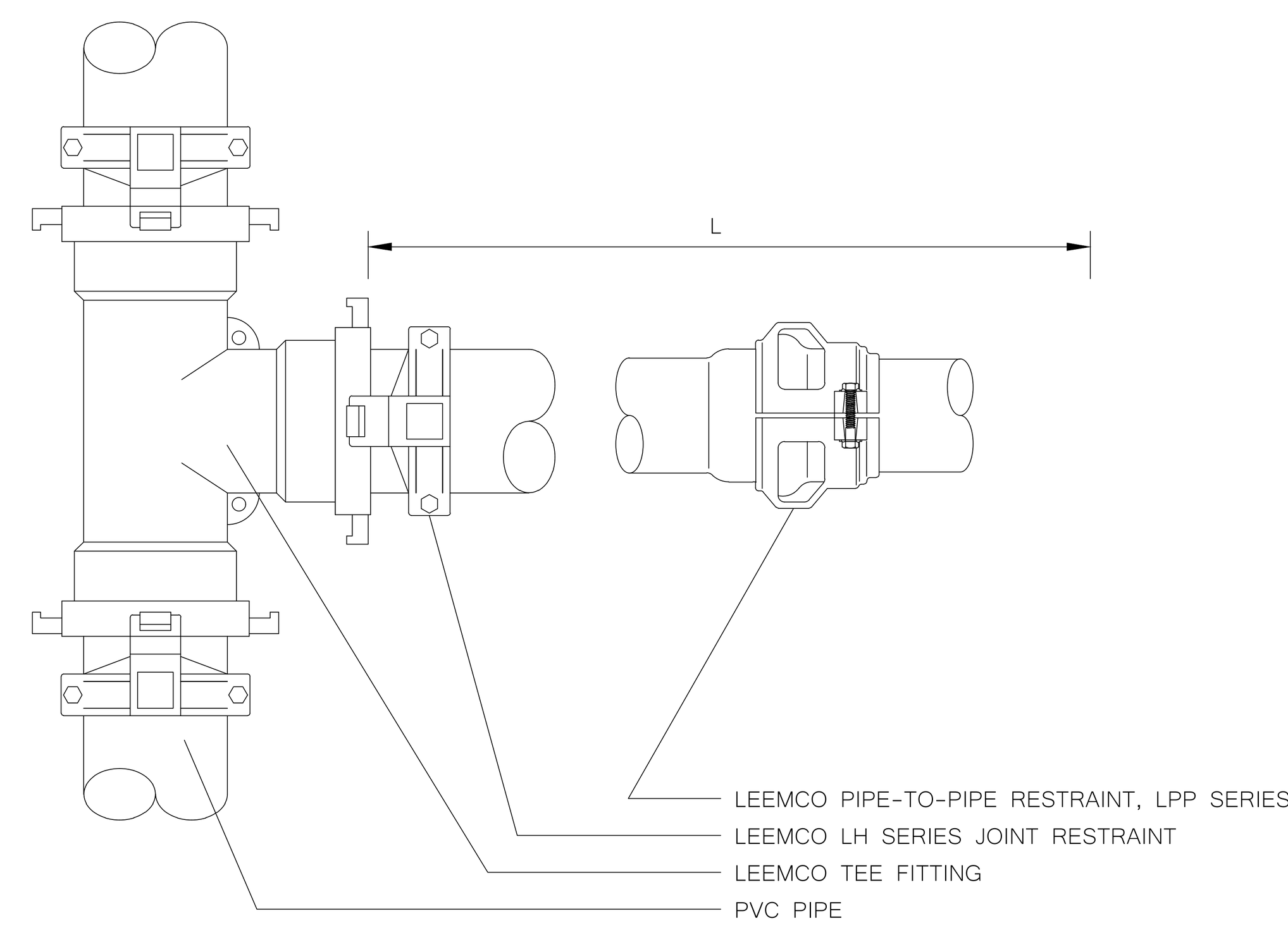
1 LEEMCO JOINT RESTRAINTS CHART

NOTES:
1. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



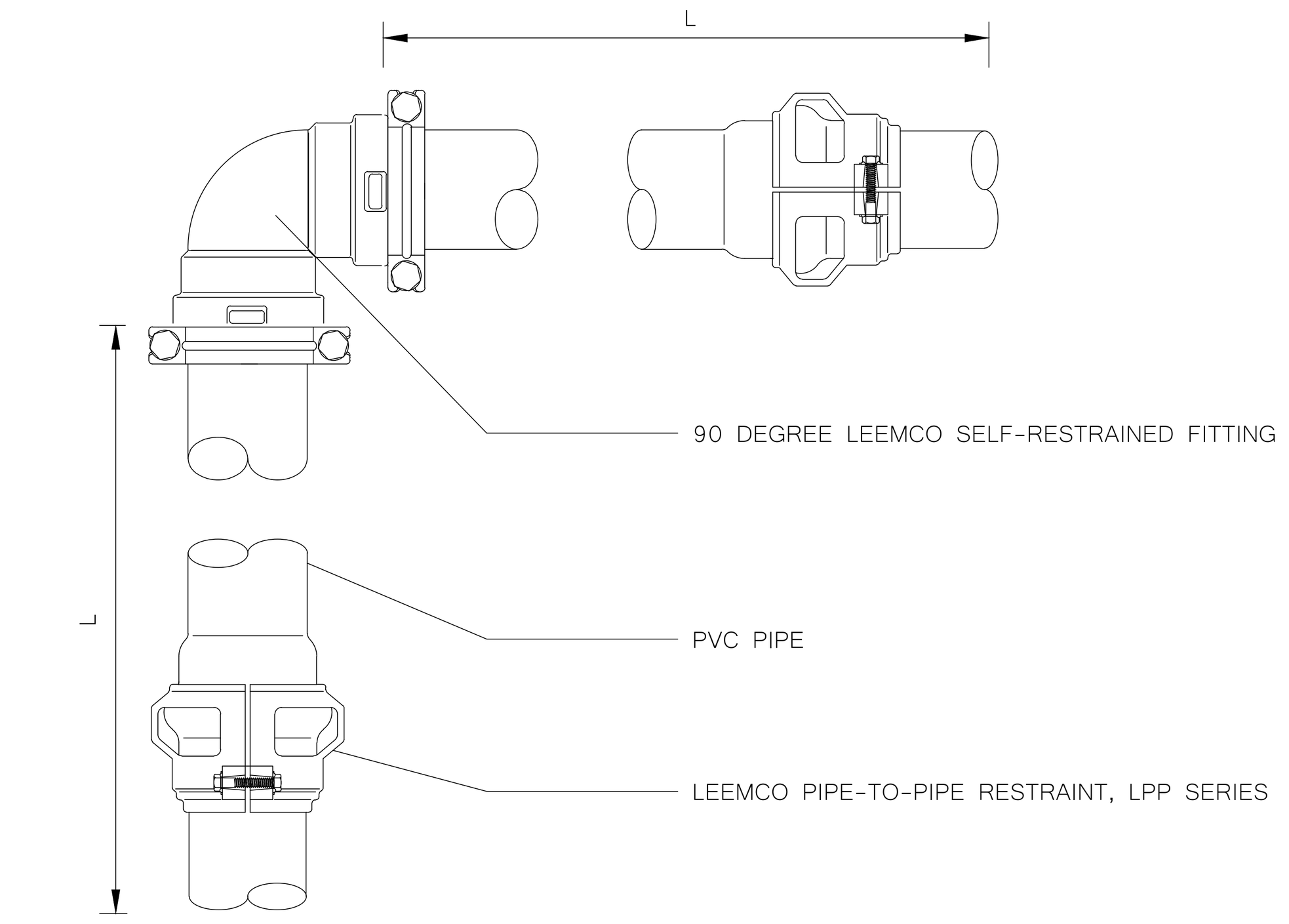
2 LEEMCO BELL JOINT RESTRAINTS DETAIL

NOTES:
1. REFER TO LEEMCO MANUEL FOR JOINT RESTRAINT REQUIREMENTS FOR ALL FITTINGS. L = LENGTH IN WHICH JOINT RESTRAINT IS REQUIRED
2. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



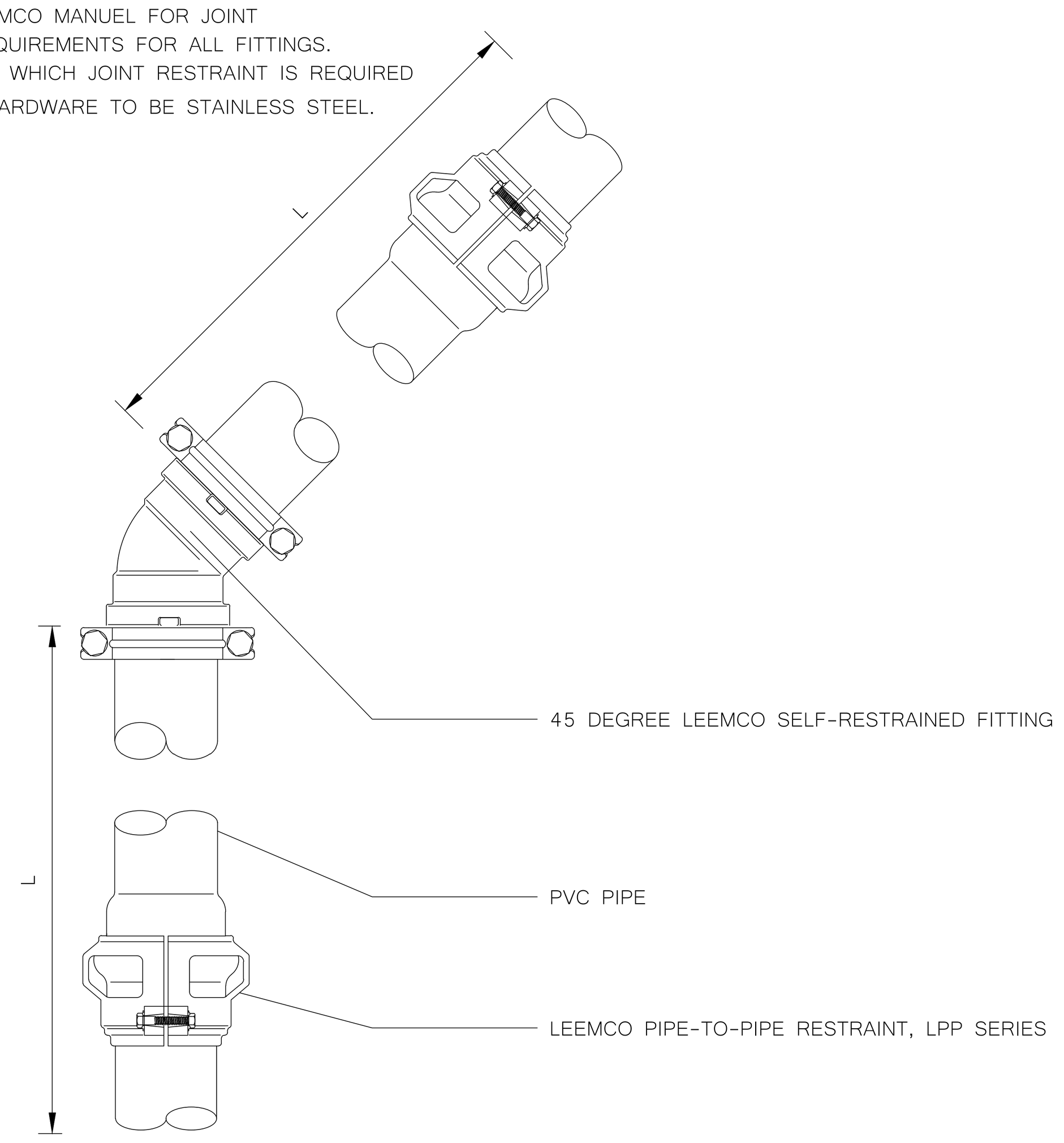
3 LEEMCO TEE WITH JOINT RESTRAINTS DETAIL

NOTES:
1. REFER TO LEEMCO MANUEL FOR JOINT RESTRAINT REQUIREMENTS FOR ALL FITTINGS. L = LENGTH IN WHICH JOINT RESTRAINT IS REQUIRED
2. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



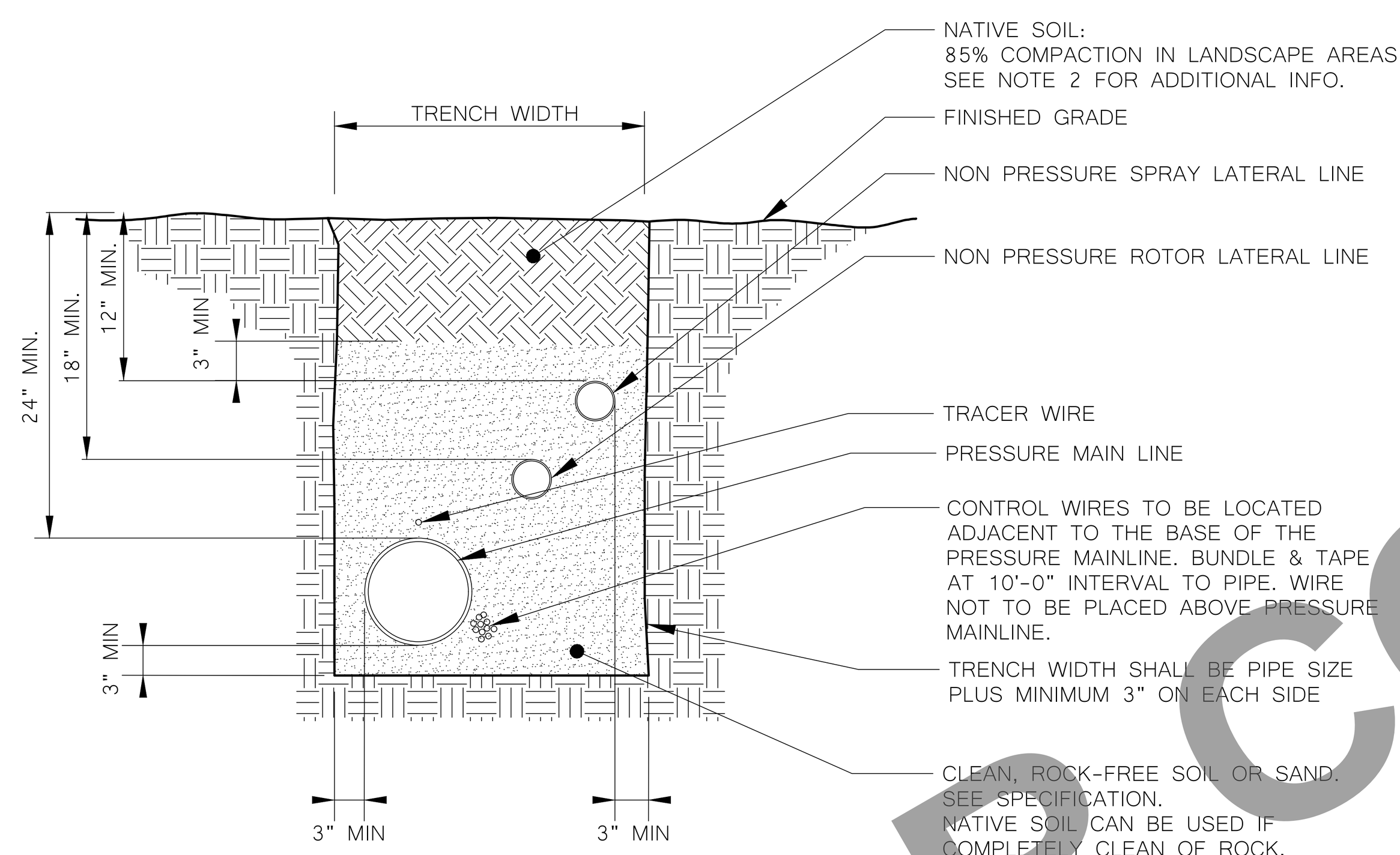
4 LEEMCO ELBOW WITH JOINT RESTRAINTS DETAIL

NOTES:
1. REFER TO LEEMCO MANUEL FOR JOINT RESTRAINT REQUIREMENTS FOR ALL FITTINGS. L = LENGTH IN WHICH JOINT RESTRAINT IS REQUIRED
2. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



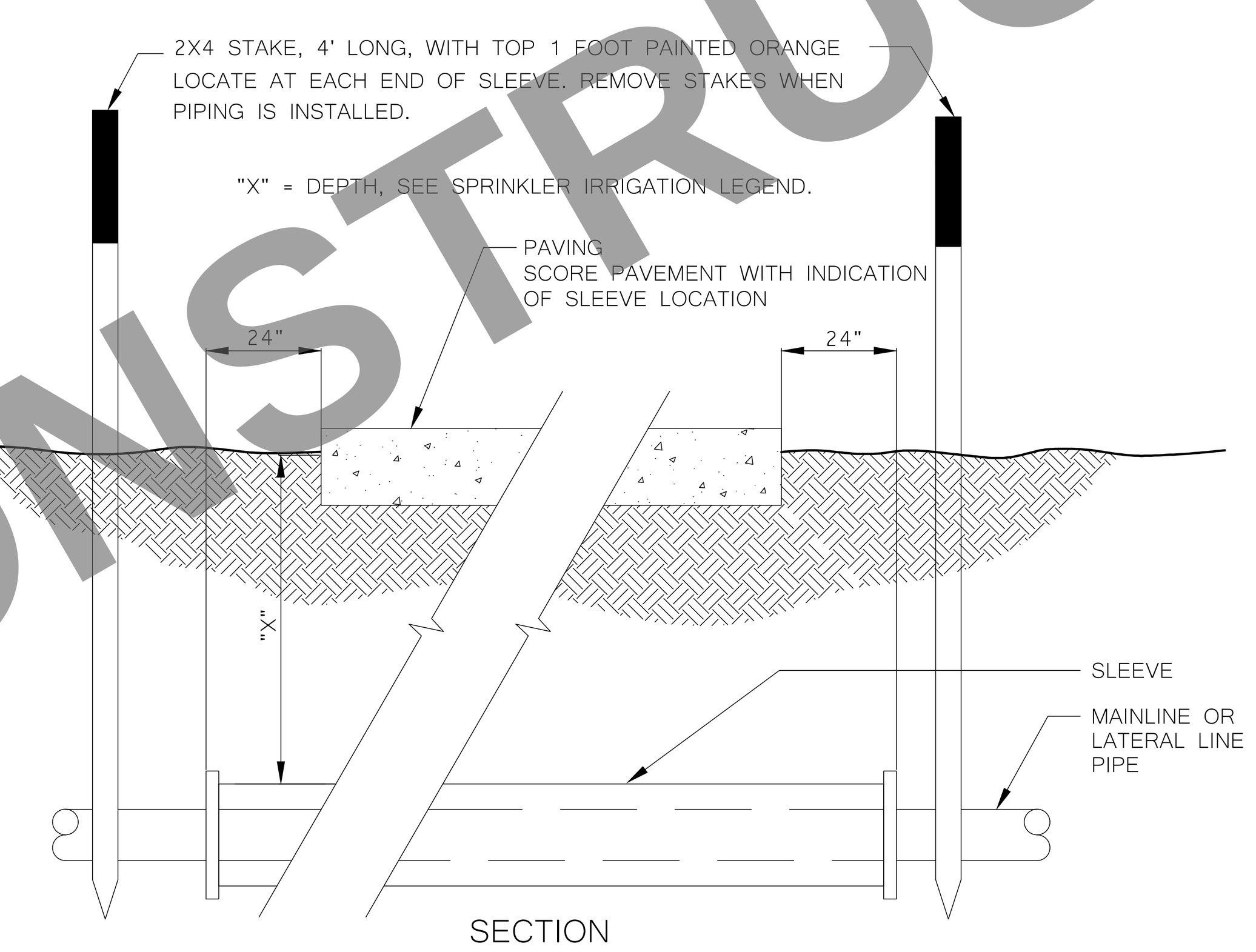
5 LEEMCO 45 ELBOW WITH JOINT RESTRAINTS DETAIL

NOTES:
1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.
2. WHEN TRENCHES ARE LOCATED UNDER PAVEMENT, COMPACTION RATE FOR THE BACKFILL SHALL COMPLY WITH THE COMPACTION RATES REQUIRED FOR THOSE PAVING SECTIONS.
3. PIPES TO HAVE A MINIMUM OF 6" HORIZONTAL SEPARATION WHEN PLACED IN THE SAME TRENCH ALONG WITH A MINIMUM OF 6" VERTICAL SEPARATION BETWEEN PIPES.



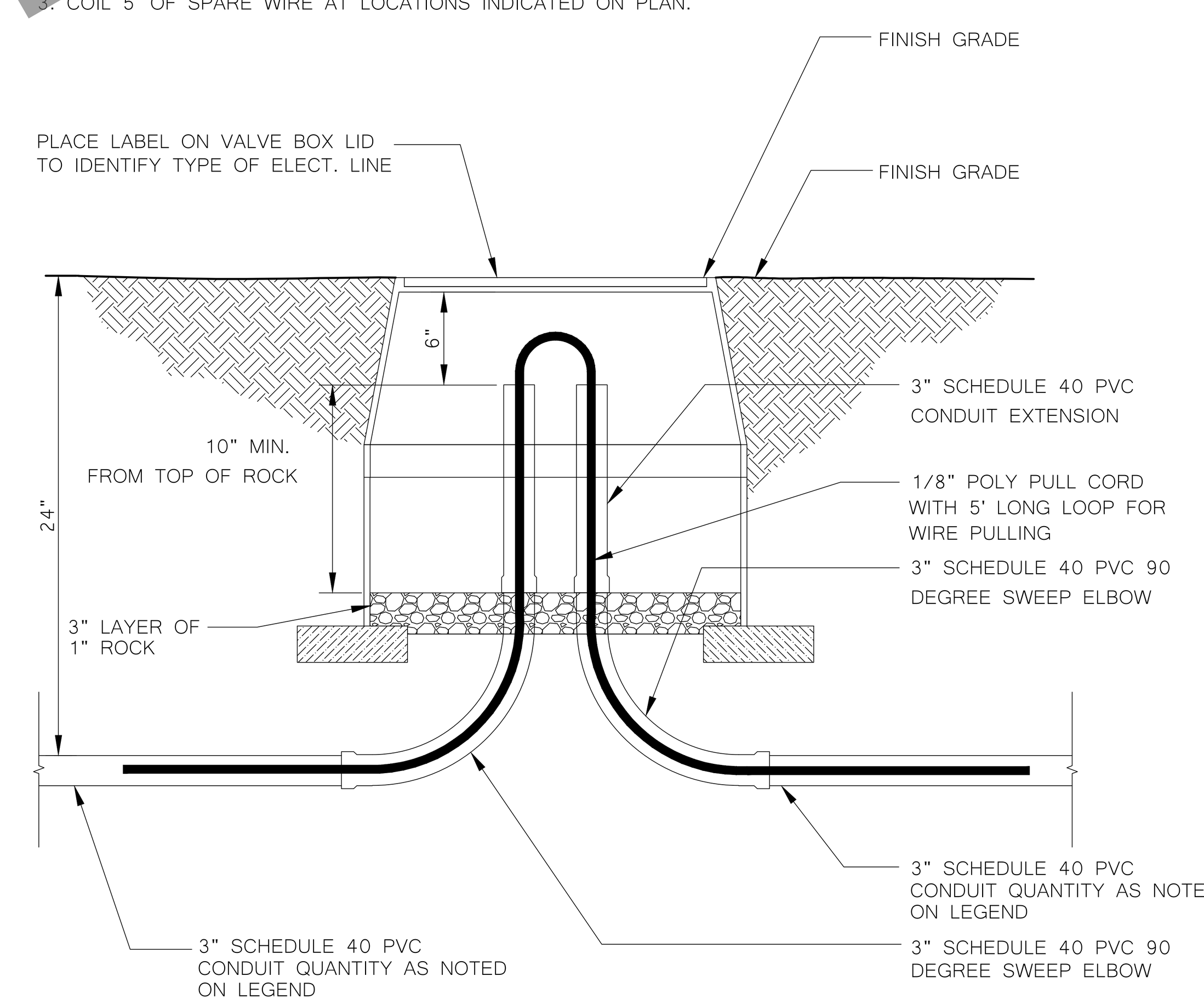
6 PIPE TRENCH DETAIL

NOTES:
1. ALL PIPE AND FITTINGS TO BE SCHEDULE 40, P.V.C. SEE PLAN FOR LOCATION.
2. SLEEVES TO BE LARGE ENOUGH TO ACCEPT THE PIPE AND FITTINGS TO BE ENCASED.
3. PROVIDE A SEPARATE SLEEVE FOR EACH LATERAL OR MAIN CROSSING.
4. PROVIDE A SEPARATE SLEEVE FOR CONTROL WIRE
5. TAPE ALL ENDS WITH DUCT TAPE TO PREVENT ENTRY OF SOIL.



7 SLEEVE DETAIL

NOTE:
1. FOR PULL BOX'S IN CONCRETE, USE CHRISTY B16 REINFORCED CONCRETE UTILITY BOX WITH 12" EXT. AND A REINFORCED CONCRETE TRAFFIC RATED LID.
2. FOR PULL BOX'S IN LANDSCAPED AREAS USE CHRISTY N16 VALVE BOX WITH 12 " EXT. AND AN FLT 16 LID GREEN COLOR OR APPROVED EQUAL.
3. COIL 5' OF SPARE WIRE AT LOCATIONS INDICATED ON PLAN.



8 ELECTRICAL PULL BOX DETAIL

DSA APP. NO: 02-123245

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

LICENSED ARCHITECT CHARLES ERIC DANDY No. C32876 EXP 03/31/26 STATE OF CALIFORNIA

24-58

MTW group
LANDSCAPE ARCHITECTURE AND PLANNING
2707 K Street, Suite 201
Sacramento, CA 95816
916 369-3990

LICENSED LANDSCAPE ARCHITECT 5453 3/12/25 7/31/25 STATE OF CALIFORNIA

SUSD
Stockton Unified School District
Since 1852
STOCKTON, CA 95203

PRIMARY YEARS ACADEMY PORTABLES

3830 WEBSTER AVE.
STOCKTON, CA 95204

REVISIONS

No.	Description	Date

PROJECT No.: 2024-003.00

CONSTRUCTION DOCUMENTS

SPRINKLER IRRIGATION INSTALLATION DETAILS

L3.2

American Modular Systems

24 X 40 RELOCATABLE CLASSROOMS
MOBILE MODULAR MANAGEMENT CORPORATION

TEST AND INSPECTION LIST

TESTING LABORATORY: _____ DATE: _____

NAME: _____

DISTRICT/OWNER: _____

DIVISION-FILE NO. _____ APPLICATION NO. _____

ARCHITECT: _____

STRUCTURAL ENGINEER: _____

STATE OF CALIFORNIA
DEPT. OF GENERAL SERVICES
DIVISION OF THE
STATE ARCHITECT

STRUCTURAL
TESTS
AND
INSPECTIONS

DSA 103-1 (R 11/85)

The following tests and inspections, as checked, will be required as detailed in applicable specifications.

	CONCRETE	GUNITE	GROUT	MORTAR	
COMPACTED FILL					Test of aggregates for mix design only
Fill material, acceptance tests					Suitability tests of aggregates as detailed below
Compaction control, continuous					Mix designs
Compaction tests only as ordered					Continuous batch plant inspection
Bearing capacity of compacted fill					Inspect. sheeting
REINFORCING STEEL					Sample
X Sample and test bar steel		X			Compressive tests
Sample and test mesh					Pick up samples at job
Inspect placing at job					Samples delivered to laboratory
STRUCTURAL STEEL					Deliver sample forms to laboratory
X Sample and test as detailed below					Sample and test cement
Shop fabrication inspection					
Field erection inspection					
X Inspection of welds — Shop					
Inspection of welds — Field					
Inspection of riveting or bolting — Shop					
Inspection of riveting or bolting — Field					
Sample and test high strength bolts and washers					
BRICK AND BLOCK					
Sample and test					
Test only					
Inspection of placing					
Core drill samples					
GLUED LAMINATED STRUCTURAL LUMBER					
Fabrication inspection					
Sample and test steel accessories					
Inspect fabrication of steel accessories					

SUITABILITY TESTS	CONCRETE MATERIALS	GUNITE	MORTAR	GROUT
Sodium sulphate				
Structural strength				
Los Angeles rattler				
Clay (Hydrometer method)				
Reactivity tests				
Volume change				

MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE

MATERIAL	MAXIMUM SIZE	COMPRESSIVE STRENGTH, PSI, MINIMUM 28 DAYS					
CONCRETE	1 1/2"	3000					

List of structural steel members to be tested:

C7X9.8
C12X20.7
6 3/4"X14 GA. JOISTS
2"x18 ga. STRAPS

TESTING MAY BE WAIVED IF STEEL HAS BEEN PROPERLY IDENTIFIED BY MFR'S MILL ANALYSIS AND TEST REPORTS PER TITLE 24, C.C.R., SECTION 2212.A.1

Other Tests and Inspections, together with special instructions:

GROUNDING TEST
EXPANSION ANCHORS

Copies of Reports to:

DSA/ORS
AMERICAN MODULAR SYSTEMS, INC.
SCHOOL DISTRICT
ARCHITECT

By: _____
AUTHORIZED REPRESENTATIVE

INDEX

SHEET No.	DESCRIPTION
TS-1	TITLE & BUILDING DATA NOTES
N-1	GENERAL NOTES
1	FLOOR PLAN & NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS & NOTES
S1	FOUNDATION PLAN WOOD, DETAILS & NOTES 50#
~~S1B~~	~~FOUNDATION PLAN CONCRETE, DETAILS & NOTE 50#~~
S2	FLOOR FRAMING PLAN & BUILDING SECTIONS
~~S2B~~	~~BUILDING SECTIONS AND WALL DETAILS~~
S3	ROOF FRAMING PLAN & DETAILS
S4	FRAMING ELEVATIONS & DETAILS
~~S5R~~	~~RAMP PLAN, ELEVATION & DETAILS~~
M1	MECHANICAL PLAN, DETAILS & NOTES
E1	ELECTRICAL PLAN, DETAILS & NOTES

BUILDING DATA
STOCKPILE CLASSROOMS

OCCUPANCY	E-2
TYPE OF CONSTRUCTION	V - NON-RATED
WIND LOAD (80 MPH EXPOSURE C)	21 LBS/SQ FT
FLOOR LIVE LOAD	50 LBS/SQ FT
ROOF LIVE LOAD	20 LBS/SQ FT (REDUCIBLE)
RAMP LIVE LOAD	100 LBS/SQ FT
BUILDING AREA	960 SQ FT
FIRE MARSHAL-	CALIFORNIA BUILDING CODE (CBC) TITLE 24, PART 2, CCR (1994 UBC W/ CAL. AMENDS) TITLE 24, PART 3, CCR (1993 NEC W/ CAL. AMENDS) TITLE 24, PART 4, CCR (1994 UMC W/ CAL. AMENDS) TITLE 24, PART 5, CCR (1994 UPC W/ CAL. AMENDS) TITLE 24, PART 9, CCR (1994 UFC W/ CAL. AMENDS) TITLE 24, PART 12, CCR (1994 STD. W/ CAL. AMENDS) TITLE 19
STRUCTURAL -	1995 CALIFORNIA BUILDING CODE (CBC) TITLES 24 PARTS 1 AND 2
MODULES	MOMENT-RESISTANT
SYSTEM	(2) 12' X 40' MODULES
FOUNDATION	PRESSURE TREATED WOOD OR CONCRETE
SEISMIC	ZONE 4

55-0
CONSTRUCTION OVERSIGHT
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 6 12 17
FLS SS
DATE 8-20-97
Fire-Sharon-Wilt

FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL PC 328
AC. FLS. SS.
DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN H. LAWLESS
No. 2310
Exp 3-31-01
STRUCTURAL
STATE OF CALIFORNIA

JOB NO.
DATE: AUGUST 6,1997
SHEET NUMBER
TS-1
BINDING ORDER 1

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A GENERAL REQUIREMENTS

1. GENERAL

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.

B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

2. SCOPE OF WORK

A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE,MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.

B. ALL REQUIREMENTS OF TITLES 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING,MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
5. ADDENDUMS SHALL BE SIGNED BY THE ARCHITECT & APPROVED BY D.S.A.
6. CHANGE ORDERS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A.
7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE DESIGNER/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
13. THE MANUFACTURER OF BUILDING IS TO PLACE A PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME AND VISIBLE FROM THE EXTERIOR OF THE END OF THE MODULE. SEE "GENERAL DESIGN REQUIREMENTS", THIS PAGE.
    FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.
14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQ. BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALY RECOGNIZED TESTING LABORATORY.

FOUNDATION

1. ASSUMED ALLOWABLE SOIL BEARING: 1000 PSF.
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL, APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.

NOTE:THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, IR 23-8, ISSUED BY DIVISION OF THE STATE ARCHITECT FOR TEMPORARY BUILDINGS. THIS FOUNDATION SYSTEM IS NON-CONVENTIONAL AND THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR ITS CONSTRUCTION OR LONGEVITY.

3. WORK NOT INCLUDED

A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.

B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM,INTERCOM SYSTEM,TV,TELEPHONE SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.

4. WHEELS AND HITCH

SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

5. ACCESSIBILITY OF SITE

THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES SHRUBS,FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

TRIM/ FINISH NAILING

DESCRIPTION	SET	SIZE	LENGTH	FINISH
SIDING		.131	2 1/4"	GALV
CASING, SILL & INT. CORNER TRIM	X	16g	1 1/4"	N
2X FASCIA		.131	3"	GALV
SOFFIT		.131	2 1/4"	GALV
1X EXT. TRIM, WINDOWS, EXT. DOORS, EXT. TRIM		.113	2"	GALV

SECTION 6 WORKMANSHIP

A. GENERAL – ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS,TITLE 24 OF CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.

B. WELDING – ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24,PART 2,CCR, SECTION 2212A.5 WELDING ELECTRODE SHALL BE E70XX.

1. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A-36 & A-570 GR.36.
2. PIPE COLUMNS SHALL COMFORM TO A.S.T.M. A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05%.
3. STEEL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE B OR A.S.T.M. A579 GRADE 50 FOR GAUGE TUBING-TYP. U.N.O.
4. STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.

C. ERECTION – STRUCTURAL STEEL ERECTED TRUE,STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.

D. NAILS,BOLTS, SCREWS AND NUTS ETC.– FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.

1. BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO A.S.T.M. A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CARRIAGE BOLTS THROUGH STEEL TO BE DRILLED, OR TORCH PILOT HOLE AND REAM MIN. 1/16" TO CORRECT SIZE. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER EXCEPT AT SIMPSON MTT28B.

E. HANDRAILS – FABRICATED, AS DETAILED, WELDS GROUND SMOOTH.

F. SHOP PAINT

1. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
2. NON-EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.PRIME ALL EXPOSED STEEL SURFACES AFTER FIELD WELDING.

G. TESTS

1. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER T-24 PART 2,CCR SECTION 2212A.1.

SECTION 6A CARPENTRY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL CARPENTRY

2. MATERIALS

LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 17 OF WEST COAST LUMBER INSPECTION BUREAU, OR "GRADING RULES FOR LUMBER,3RD EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION OR W.C.L.I.B.. PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-95 FOR SOFTWOOD PLYWOOD,OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH CBC EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO.

A. JOISTS, RAFTERS, PLATES, STUDS-DOUGLAS FIR OR HEM FIR S4S #2 U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.

B. HEADERS,POSTS AND TIMBERS-DOUGLAS FIR S4S #1

C. BLOCKING – DOUG FIR #3,OR HEM FIR #3,OR STD. & BET.

D. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE,MASONRY OR EARTH, DOUG FIR #2 PRESSURE TREATED IN ACCORDANCE WITH CBC 1811.7. EACH PIECE SHALL BEAR AWPB STAMP. LP-22 GROUND CONTACT,D.F.#2 ABOVE GROUND.

E. PLYWOOD ROOF DECKING – NOT USED.

F. PLYWOOD FLOOR DECKING – APA STURD-I-FLOOR 2-4-1 OR UNI-FLOOR BY PITTSBURGH TESTING LAB, 1-1/8"NOM. TONGUE AND GROOVE FLOOR SHEATHING, WITH EXTERIOR GLUE.

G. EXTERIOR SIDING/SHEATHING – APA TYPE 303,EXTERIOR.

H. MOISTURE BARRIER – KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, UBC STANDARD 14-1 FOR KRAFT, 15-1 FOR FELT.

J. STUDS – DOUG FIR #2. OR HEM FIR. #2

K. FASTENERS – ALL NAILS SHALL BE CORROSION RESISTANT PER UBC STANDARD 25-17. ELECTROGALVANIZED COMMON NAILS U.N.O.

L. BUILDING TRIM – 2X RESAWN SELECT D.F.,H.F.,OR CEDAR

M. DOOR/WINDOW TRIM – 1X4 REWAWN D.F.,H.F.,OR CEDAR.

N. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.

O. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 708.

P. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.

Q. FOUNDATION LUMBER: ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".

3. WORKMANSHIP

A. FRAMING – SECURELY NAILED,BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBELED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.

B. NAILING – IN ACCORDANCE WITH TITLE 24,PART 2, CALIFORNIA CODE OF REGULATIONS,TABLE 23-I-Q

C. EXTERIOR WALLS – FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS,SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.

D. MACHINE APPLIED NAILING:
USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.
MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

E. MOISTURE BARRIER – APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.

F. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7B SHEET METAL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.

2. MATERIALS

A. SHEET METAL – STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A526. MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.

B. SOLDER – OF STAND,GRADE "A" OF EQUAL PARTSARD BRAND LEAD AND TIN ASTM B32.

C. FLUX – ZINC SATURATED MURIATIC ACID.

D. GUTTERS: 26 GA. G-90 GALV. STEEL.
DOWNSPOUTS: 2"X3" CONVOLUTED 30 GA. G-90 GALV. STEEL.
GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL.
GUTTER CLIPS: 18 GA. G-90 GALV. STEEL

3. WORKMANSHIP

SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7C METAL ROOFING

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS SHOWING THE ROOFING SYSTEM WILL WITHSTAND THE UPLIFT OF A 80 MPH WIND SHALL BE SUBMITTED WITH THE PLANS AND SPECIFICATIONS.

2. MATERIALS

A. ROOFING – 3" INCH STANDING SEAM 22-GAUGE G-90 GALV. INTERLOCKING SHEET STL PANELS (G90).

SECTION 7J SEALANT

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIAL AND SERVICES TO SEAL BUILDINGS.

2. MATERIALS

VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.

3. WORKMANSHIP

SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION CONCRETE CONCRETE (IF USED)

1. CONCRETE MORTAR AND RELATED MATERIALS TO CONFORM TO APPLICABLE PROVISIONS OF TITLE 24 EXCEPT AS MODIFED HEREIN.
2. REINFORCEING BARS:ASTM A615 OR ASTM A706 DEFORMED GRADE 40 BILLET STEEL.
3. EXPANSION JOINT FILLER: ASTM D994
4. FORM MATERIALS: SIDE FORMS DOUGLAS FIR, CONSTRUCTION GRADE OR BETTER: OR METAL FORMS.
5. PLACING REINFORCEMENT, PLACING CONCRETE SUFACE FINISHES, CURING AND REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF TITLE 24, PART 2.

SECTION 8B HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.

2. MATERIALS

A. DOORS – TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY,18 GA. 1 3/4" THICK PER CS242 MIN,REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.

B. FRAMES – 16 GA COLD ROLLED,2" FACES, CS242 MIN.3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX,PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.

3. WORKMANSHIP

ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARDP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP,WAVE,BUCKLE OR OTHER DEFECTS AFTER FABRICATION,DOORS AND FRAMES CLEANED THOUROUGHLY,ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 8D FINISH HARDWARE

1. SCOPE OF WORK

CONTRACTOR SHALL SUPPLY AND INSTALL FINISH HARDWARE AS SPECIFIED AND AS REQUIRED.

2. SCHEDULE FOR EXTERIOR DOORS

SEE NOTE ON FLOOR PLAN.

3. SPECIAL REQUIREMENTS

A. EXIT DOORS SHALL BE OPENABLE FROM THE INTERIOR WITHOUT KEY OR SPECIAL KNOWLEDGE OR EFFORT.

B. CLOSER SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 8.5 LBS. PRESSURE.

SECTION 9E PAINTING

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.

2. MATERIALS

A. FOR EXTERIOR WOOD:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	42-9M	1240	Y24W20	289-N
FINISH	QD-60-XX	1240-XXX	B54WZ102	GE2-NXX

B. FOR INTERIOR TRIM

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
FINISH	W450-XX	1650-XXX	A26W11	40XX

C. FOR METAL

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	43-4	1710	B50NZ6	15N
FINISH	10-XX	1700-XXX	B54WZ102	GE2-NXX

3. WORKMANSHIP

ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.

A. EXTERIOR – WOOD SIDING, TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX – APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.

B. INTERIOR TRIM – TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.

C. INTERIOR HARDWOOD CABINETS – TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.

D. METAL – ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.

E. RAMP – ONE COAT OF FERROX NON-SKID SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE.
ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST FOR MAINTENANCE PAINTS 8010-91G-98A DATED JULY 1989. OR EQIAL.

F. SUBMIT ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 13F SITE ASSEMBLY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE.
THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT . UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. ASSEMBLY OF ELEMENTS

A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT,(APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.

B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.

C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

NOTE:

WALL FINISH MATERIAL
FLAME SPREAD MAX = 200
SMOKE DENSITY MAX = 450
BUILDING INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450
PIPE INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450
DUCT INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 50

SECTION 15A AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M-1 FOR HVAC SPEC. AND NOTES)

CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.

2. EQUIPMENT

SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.

3. WORKMANSHIP

UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 16A ELECTRICAL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS,LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.

2. MATERIALS

ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE AND NATIONAL FIRE PROTECTION ASSOCIATION

A. ELECTRIC METALLIC TUBING – COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX– GALV. STEEL W/ FACTORY APPLIED P.V.C. JACKET.

B. PANELBOARDS – FLUSH MOUNTED.

C. CONDUCTORS – COPPER,INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES.MINIMUM SIZE– #14.

D. RECEPTACLES – AS NOTED. +15" A.F.F. MIN.

E. CLOCK RECEPTACLE – AS NOTED.

F. SWITCHES – AS NOTED. +48" A.F.F. MAX.

G. LIGHTING FIXTURES – AS NOTED ON THE DRAWINGS.

3. WORKMANSHIP

MATERIALS AND EQUIPMENT INSTALLED IN A SECURE,NEAT WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANELBOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION.
BUILDING CONDUIT/WIRING FROM FACE OF BLDG TO SITE TERMINATION BY SITE CONTRACTOR(N.I.C.).(FLEXIBLE CONDUIT S-BEND SEALTITE)

INSPECTION

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS.

1. IN-PLANT INSPECTION.
2. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE WHEN OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY OR FROM THE STORAGE FACILITY TO THE SITE THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM SSS-6). A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

COORDINATION OF WORK

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT,IF NECESSARY.
THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF AY MODULE.
ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED,UNLESS OTHERWISE SPECIFIED,SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.

CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS:

TWO (2) APPROXIMATELY 12' X 40' MODULES DESIGNED SO THAT TWO MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3"X1 -1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

1. MANUFACTURER'S BUILDING NUMBER.
2. DESIGN WIND LOAD
3. DESIGN ROOF LIVE LOAD
4. D.S.A. APPLICATION NUMBER.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH 12' X 40' MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

DIMENSIONS

THE BUILDINGS SHALL OCCUPY AN AREA OF 960 SQUARE FEET WITH A TOLERANCE OF MINUS 5 SQUARE FEET. THE BUILDINGS SHALL BE 24' X 40'. ALL BUILDINGS SHALL MEET THE SQUARE FOOTAGE REQUIREMENT. LINEAR DIMENSIONS SHALL BE VERTICAL TRIM FINISH LINE TO VERTICAL TRIM FINISH LINE.

FASCIA AND REQUIRED OVERHANGS ARE NOT INCLUDED IN THE CALCULATION OF THE SQUARE FOOTAGE THE BUILDING OCCUPIES. THE ENTRANCE WALL SHALL HAVE A 5' MINIMUM ROOF OVERHANG. THE REAR WALL SHALL HAVE A MINIMUM 2' OVERHANG. FULL LENGTH GUTTERS AND DOWNSPOUTS SHALL BE FURNISHED ON THE SIDES OF EACH OVERHANG AND EACH ROOF EDGE WHERE DRAINAGE OCCURS. THE INTERIOR HEIGHT,FLOOR TO CEILING SHALL BE 8'-6" U.O.N. THE MODULE SHALL BE CLEAR SPAN TYPE EXCEPT AS PROVIDED FOR IN THE BID SPECIFICATIONS NOTHING SHALL PROTRUDE MORE THAN 1" BELOW THE CEILING LEVEL.

ITEMS NOTED AS N.I.C. (NOT IN CONTRACT) OR "BY OTHERS" IS THE RESPONSIBILITY OF THE SCHOOL DISTRICT DEPENDING ON THE AGGREEMENT WITH DISTRICT.

IN THE EVENT OF CONFLICT BETWEEN THESE SPECIFICATIONS AND THE DISTRICT BID SPECIFICATIONS, THE DISTRICT SPECIFICATIONS SHALL PREVAIL.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 6 97 [illegible]
AC FLS SS
DATE 8-20-97

No. 2310
Exp 3-31-01
8/12/97

FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. PC 328
AC FLS SS JR
DATE 4/9/97

3" STANDING SEAM ROOF

24 X 40
RELOCATABLE
CLASSROOMS

American
Modular Systems

CUSTOMER:

GENERAL NOTES

DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
△			△		
△			△		
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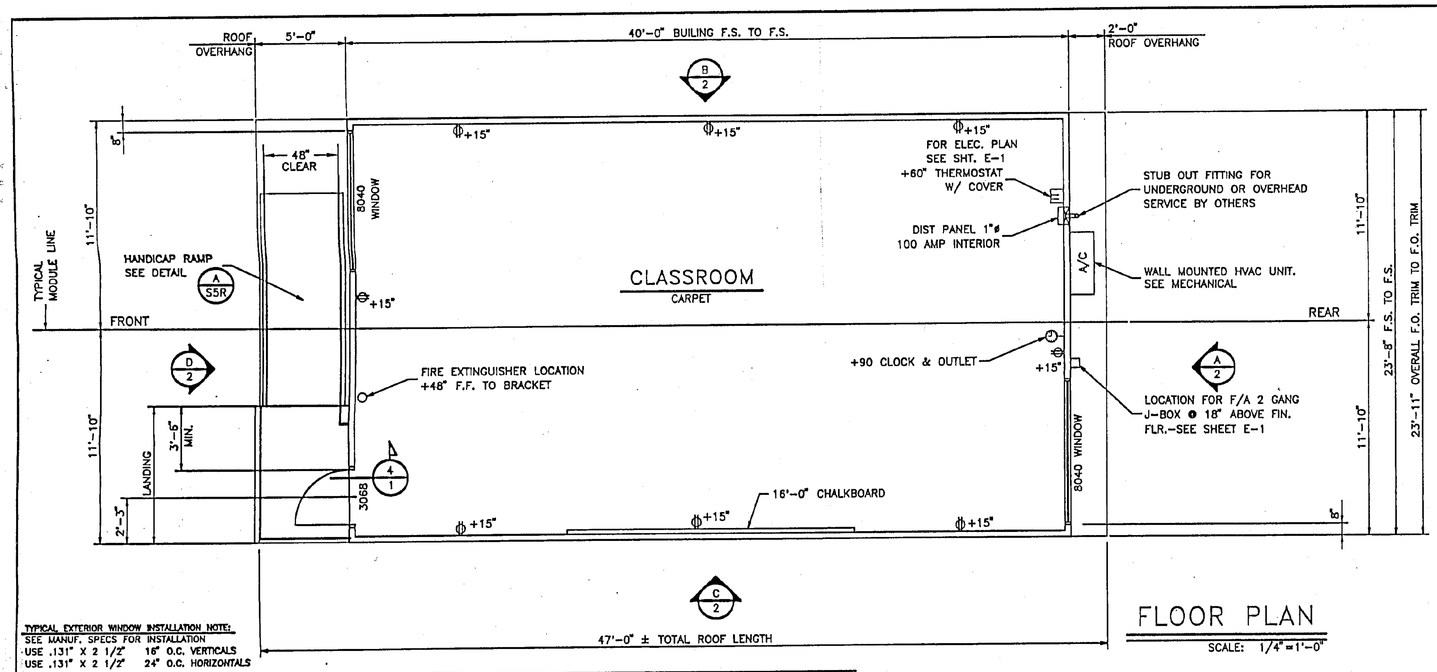
PROJECT No.

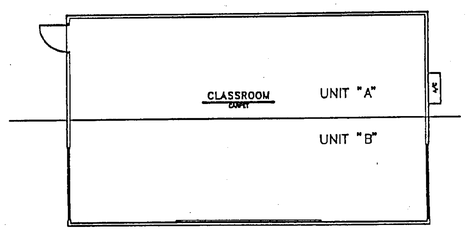
SHEET No.
N-1



FLOOR PLAN

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

TYPICAL EXTERIOR WINDOW INSTALLATION NOTE:
SEE MANUF. SPECS FOR INSTALLATION
USE .131" X 2 1/2" 16" O.C. VERTICALS
USE .131" X 2 1/2" 24" O.C. HORIZONTALS



OPTIONAL FLOOR PLAN

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

NOTES
INTERIOR
1. Floor: Carpets – Units shall be carpeted as indicated on floor plan with direct glue down type per State of California Specification 7220-XXX-01, Group 1, Type A, Class 26. Color will be selected by District after award of bid. The carpet density shall be 4600 minimum. Pile yarn shall be branded nylon. No cross seams shall be allowed.

2. Base: Resilient Cove Base – Best quality, moulded rubber, 1/8" thick, 4" high, moulded top set
Cove: Provide preformed base for square external corners and preformed and stops where base does not abut. Solid color as manufactured by "Johnsonite Co." - Flexco, or equal. Apply cove to complete perimeter of classroom.

3. Interior walls shall be vinyl covered lockboard U.N.O. applied in one continuous length from floor to ceiling. The lockboard shall be industrial insulation board manufactured specifically as a subst for vinyl covered wall panels. The board shall be asphalt free, shall have an ironed-on coating and shall have a minimum density of 18 lbs. per ft. The vinyl coating shall be made of virgin vinyl calendered base color, weighing a minimum of 8 oz. per square yard. The coating backing shall be sheeting or non-woven fabric. The vinyl coating shall be mechanically laminated, with the long edges wrapped, to the lockboard. Tackboard shall be applied over 1/2" sheetrock or 3/8" plywood sheathing. The vinyl wall covered panel shall have a Class II flame spread rating. The panel shall be approved for classroom use by The California State Fire Marshal. Reference brand: Vinyl covered lockboard as manufactured by Chatfield-Clarke or comparable. Care shall be taken in mounting the lockboard so that the texture of all panels will have the same orientation and color match.

4. Ceiling: Suspend T-Bar System, see sheet 3 for details etc. Materials and installation per CCR 2501.A.5 and IR #47-4 inclusive as applicable to classrooms.

DOORS & WINDOWS
Exterior Doors: Metal Doors – 3'0"X6'8" hollow metal door construction of 1 sheet of 18 ga. steel assembled per CS242 min and reinforced with 20 ga. min. continuous vertical steel stiffeners spaced @ 6" O.C. Fill spaces between stiffeners with mineral wool or other insulation. (Reinforce both faces for closure) provide flush top on doors. Hardware reinforcement shall be 10 ga. min for hinges, door frame shall be 16 ga. pressed steel frame ASTM A366 & C5242. Hardware reinforcement shall be 10 ga. plate. Frames shall be designed with integral stop and trim. Provide (3) anchors per jamb.

Exterior Windows: Provide BRONZE aluminum frame minimum pane window units, as shown on floor plans.

Exterior Lite – 3/16" minimum tempered glass or laminated as – 1 glass, of BRONZE

Certification – All glazing to be certified in accordance with ASTM E-773, E-774.

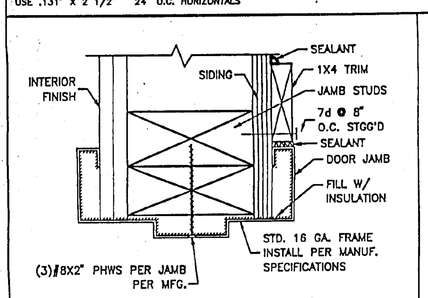
Header height shall be the same as the door. All operable sash shall have aluminum screens. Windows shall not be mounted to the exterior plywood surface. All windows shall meet the AAMA CS101-88 voluntary spec. For aluminum prime windows and sliding glass (ANSI), commercial grade.

HARDWARE
1. Exterior Door
A) Hinges: HAGER 4-1/2X4-1/2 butts, BB1279 US26D,1-1/2 pair each door with set screw in barrel and ball bearing design, or approved equal.
B) Lockset: Classroom lever handle lockset, mortise or cylindrical type, Schlage D70PD (Rodes) or equal. US26D finish.

C) Closer: Norton 8500DA or 8500BF series, LCN 1460 Def series or equal.
D) Weatherstripping: All exterior doors shall be weatherstripped with Pemko 2990, Ultra WS007, at door jambs and head or equal.
E) Threshold: Threshold shall be Pemko 271 AV 5" aluminum with Pemko 216 AV Ultra THO42 door bottom.
F) Doortop: Quality #44, or equal.

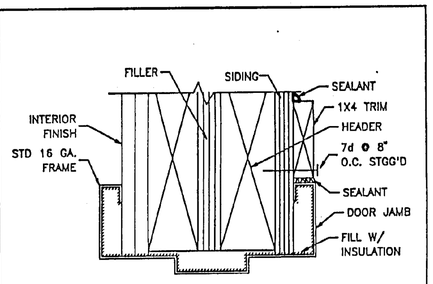
FIRE EXTINGUISHER
1. Each portable classroom shall be equipped with pressure type fire extinguishers with 2A40BC UL rating. To be mounted on the interior wall of the building near the doorway(s) at a height of 4 feet to mounting bracket. Fire extinguishers shall be totally charged and have a dial indicating the state of charge.

CHALKBOARD SPECIFICATIONS
Chalkboards(standard) shall have green facing sheet. Markerboards(extra cost option) Markerboards shall be 5 mil thick melamine facing sheet suitable to accept dry erase felt markers. The facing sheet shall be laminated, using hot melt adhesive, to a medium density particleboard substrate with a minimum density of 45#/c. ft. The panel shall have a foil backing. The panels shall have extruded aluminum molding and chalkrail with a minimum of 2-15/16" projection from the face of the panel. A full length map rail shall be provided with cork insert and end stops. The map rail and chalkrail are to incorporate a channel to wrap around the panel. Three (3) mop hooks, with clips, personel shall be provided. One flag holder, 1/2" size, shall be provided for each classroom. Each classroom shall be 2 ea. 4x8 panels installed side by side to make a 4x16 panel, centered on one of the long walls. Referenced brand: Chatfield-Clarke Co. series 500. Attach directly to studs and blocking W/#8x3" oval head wood screw @ 32" o.c. horizontally and @ 24" o.c. vertically.



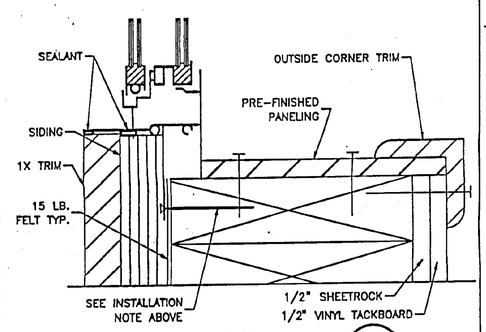
TYPICAL EXTERIOR DOOR JAMB 5/1 — NO SCALE

NOTE: SEE MANUFACTURES SPECS FOR INSTALLATION.

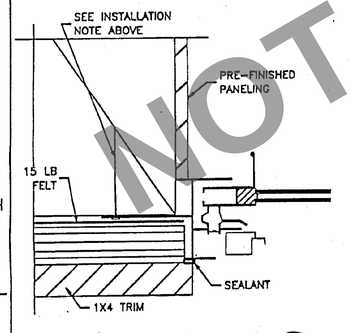


TYPICAL EXTERIOR DOOR HEAD 6/1 — NO SCALE

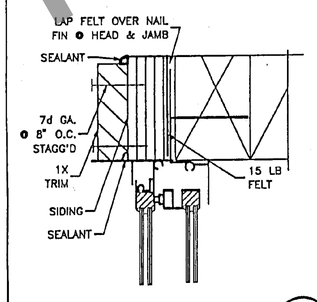
NOTE: SEE MANUFACTURES SPECS FOR INSTALLATION.



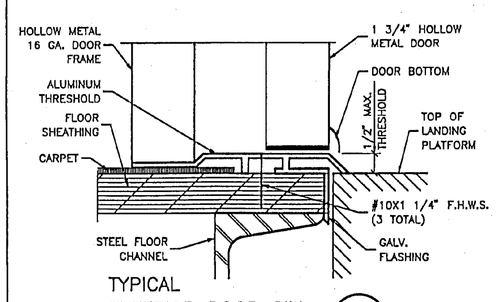
TYPICAL WINDOW SILL DETAIL 1/1 — NO SCALE



TYPICAL WINDOW JAMB 2/1 — NO SCALE



TYPICAL WINDOW HEAD 3/1 — NO SCALE



TYPICAL EXTERIOR DOOR SILL 4/1 — NO SCALE

3" STANDING SEAM ROOF

DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL NO. 6921.5
FLS
DATE 8-20-97

REGISTERED PROFESSIONAL ENGINEER
JOHN H. LAWLER
No. 2310
Exp 3-31-01
STRUCTURAL
STATE OF CALIFORNIA

FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL PC 328
AC
FLS SS DL
DATE 4/9/97

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

FLOOR PLAN & NOTES

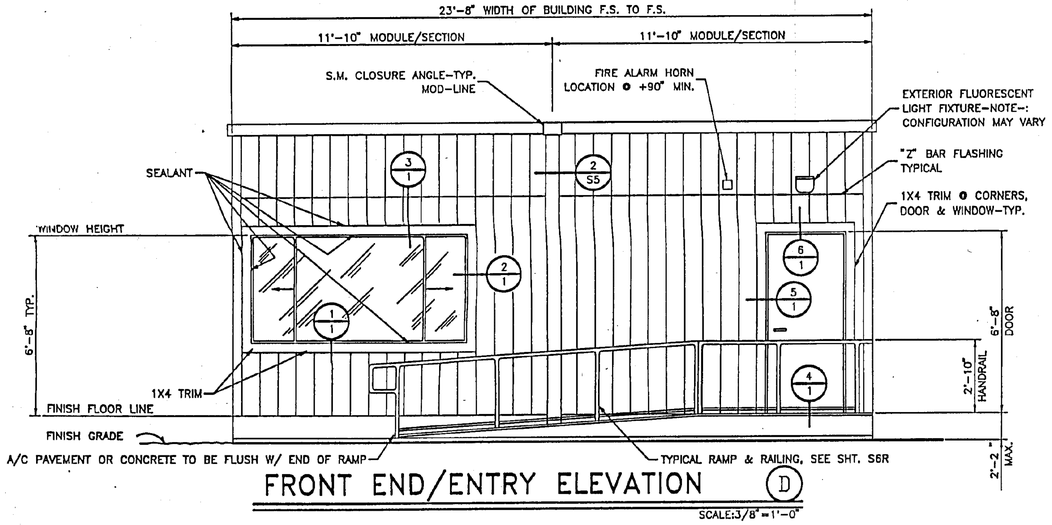
DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

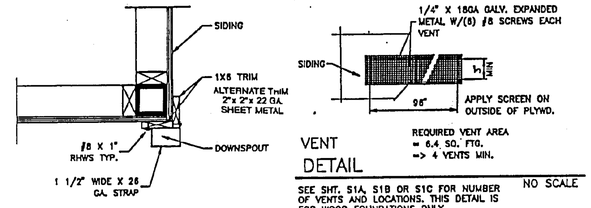
PROJECT No.

SHEET No. 1



FRONT END/ENTRY ELEVATION (D)

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



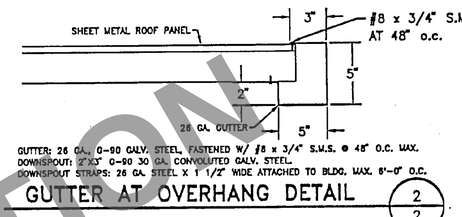
VENT DETAIL — NO SCALE

REQUIRED VENT AREA = 6.4 SQ. FTG. => 4 VENTS MIN.

SEE SHT. S1A, S1B OR S1C FOR NUMBER OF VENTS AND LOCATIONS. THIS DETAIL IS FOR WOOD FOUNDATIONS ONLY.

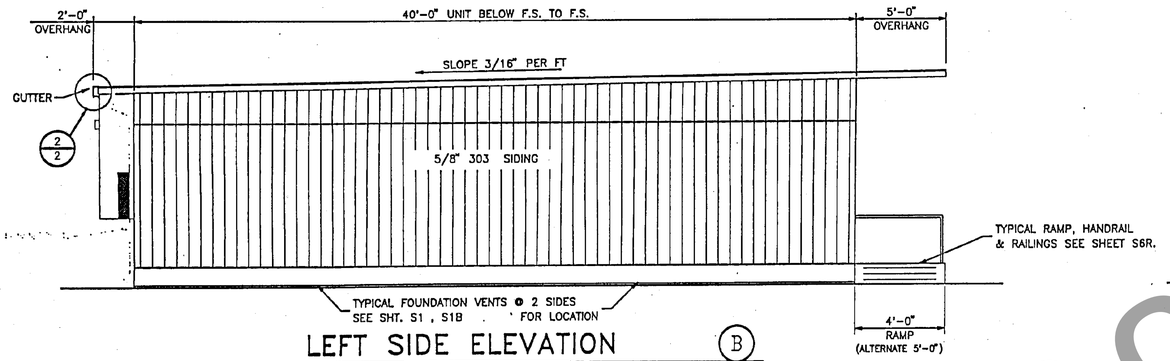
DOWNSPOUT DETAIL (3/2)

1 1/2"=1'-0"



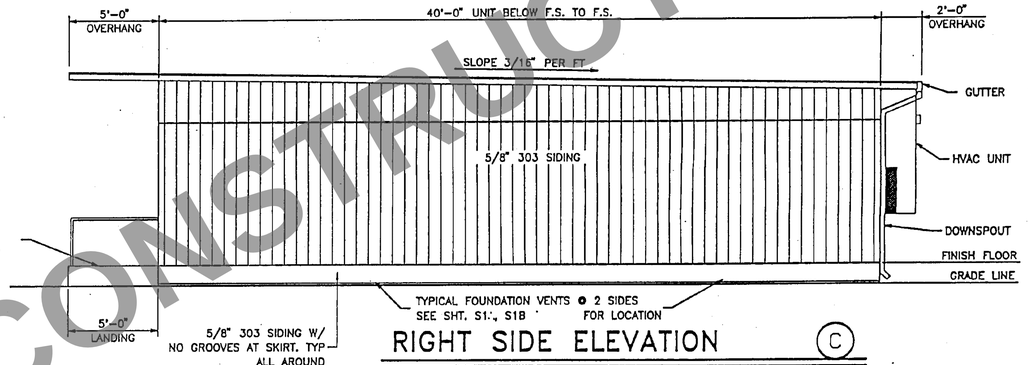
GUTTER: 26 GA., G-90 GALV. STEEL, FASTENED W/ #8 x 3/4" S.M.S. @ 48" O.C. MAX.
DOWNSPOUT: 2"X3" G-90 30 GA. CONVOLUTED GALV. STEEL.
DOWNSPOUT STRAPS: 26 GA. STEEL X 1 1/2" WIDE ATTACHED TO BLDG. MAX. 6'-0" O.C.

GUTTER AT OVERHANG DETAIL (2/2)



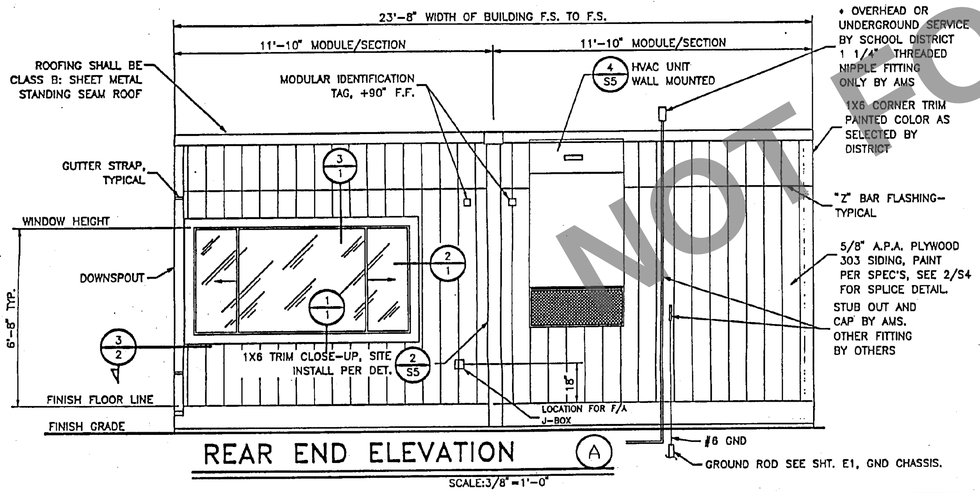
LEFT SIDE ELEVATION (B)

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



RIGHT SIDE ELEVATION (C)

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



REAR END ELEVATION (A)

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

DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL NO. 92 L 2
FLS
DATE 8-20-97

REGISTERED PROFESSIONAL ENGINEER
JOHN H. LAWLER
No. 2310
Exp. 3-31-01
STRUCTURAL
STATE OF CALIFORNIA

FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. PC 328
AC FLS SS GR
DATE 4/9/97

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

EXTERIOR ELEVATIONS

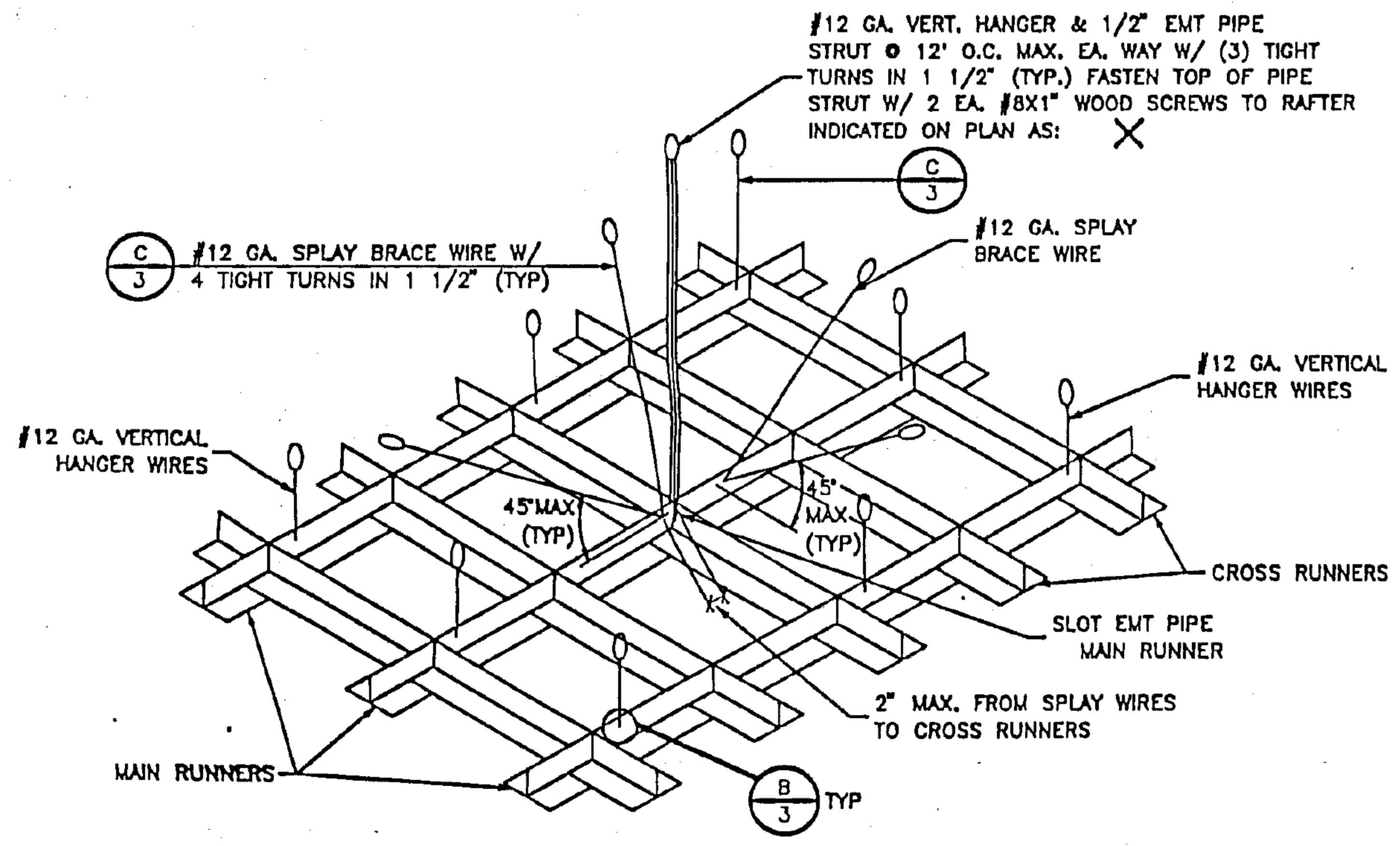
DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

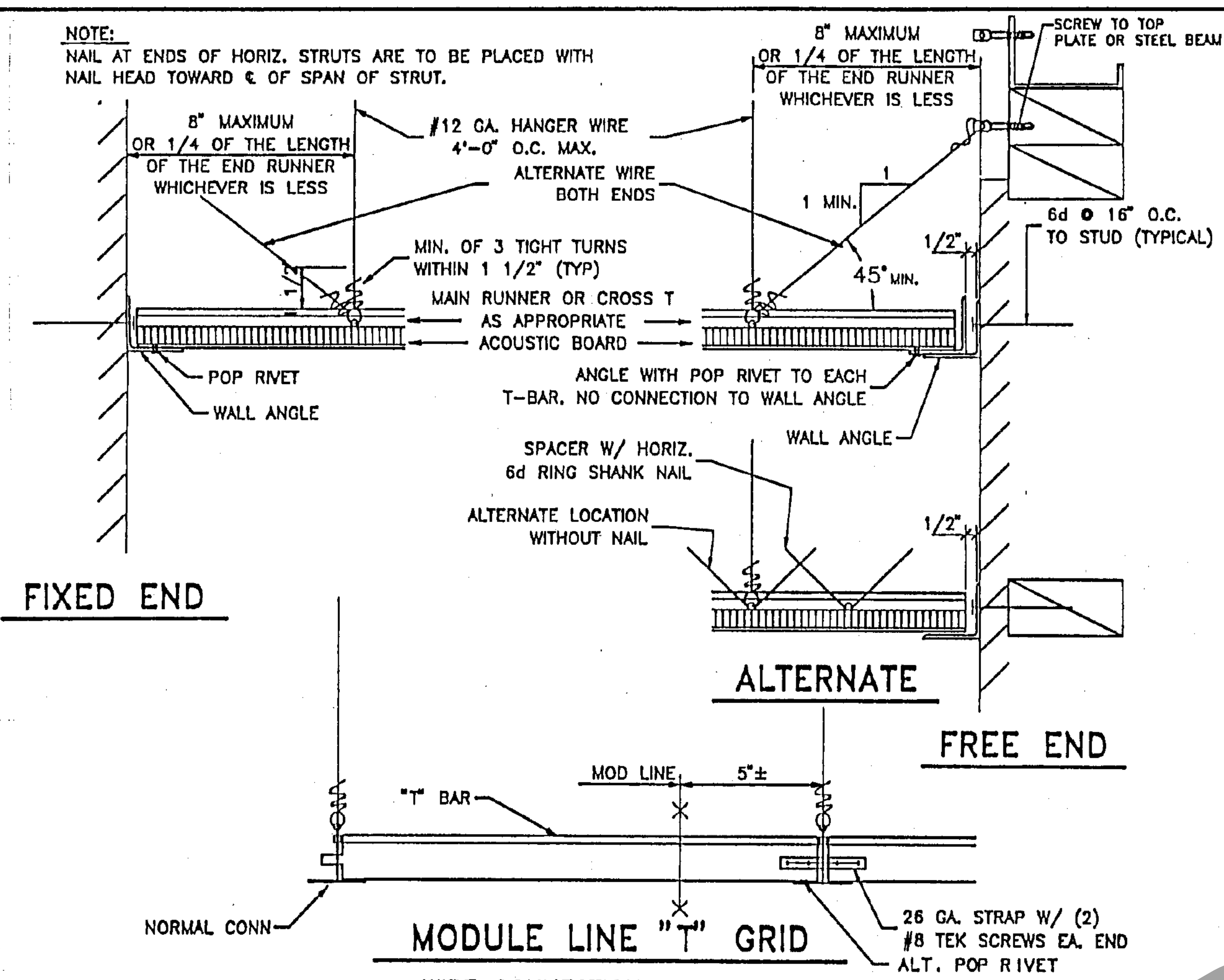
PROJECT No.

SHEET No. 2

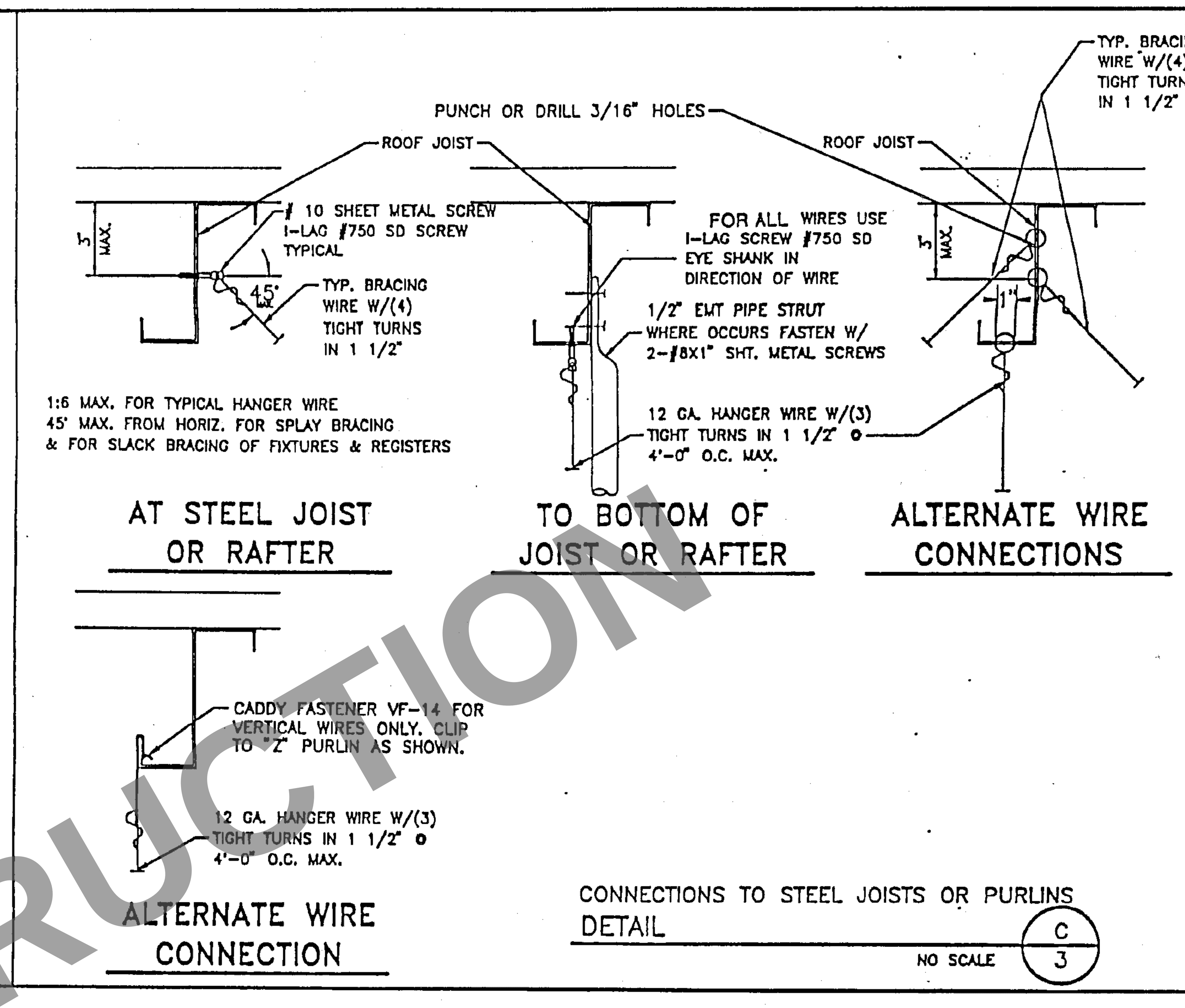


NOTE: SPLAYED BRACING WIRES SHALL BE SPACED NOT MORE THAN 12 FT. ON CENTER.

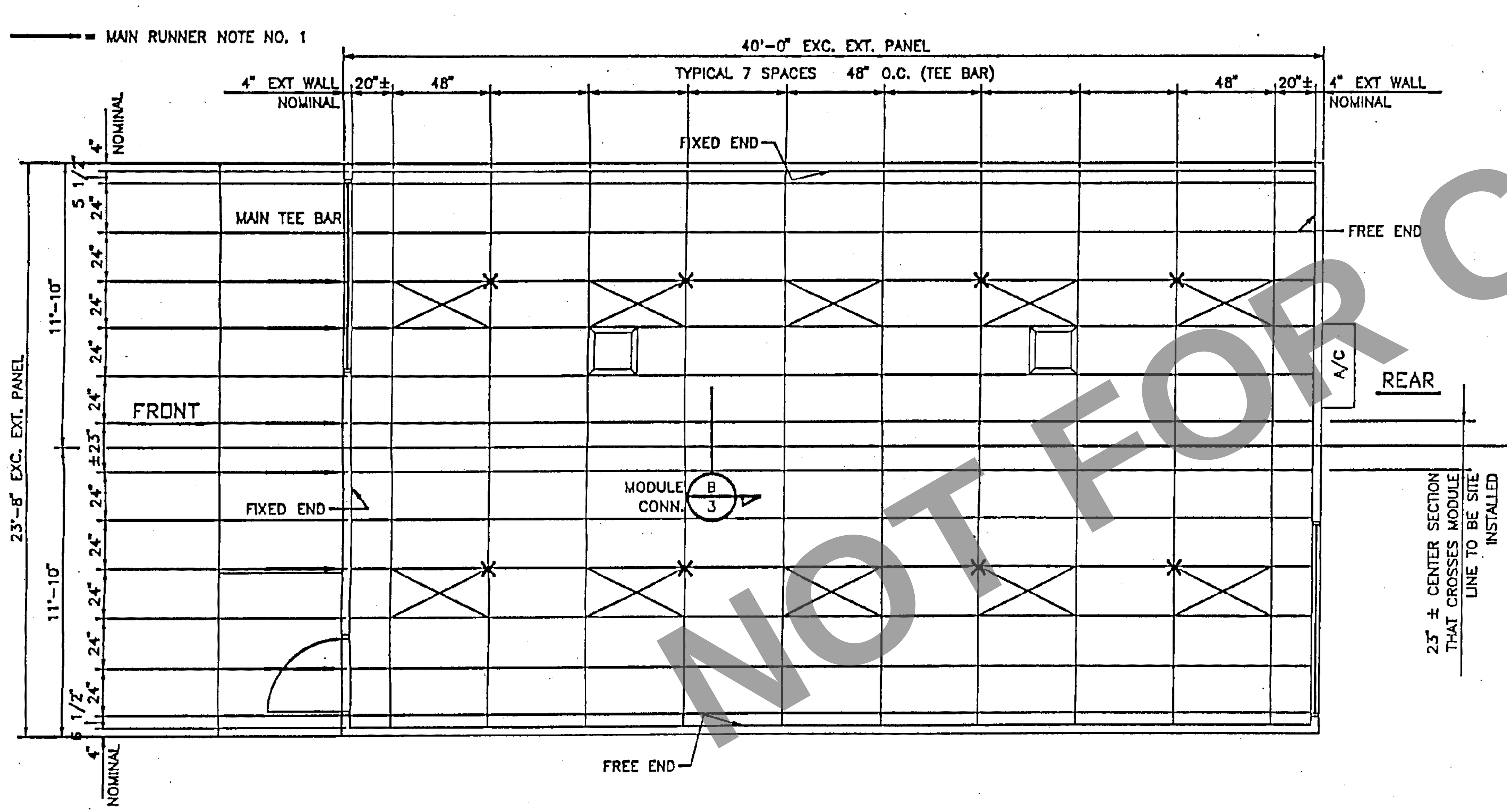
ATTACHMENT FOR CEILING GRID
DETAIL A/3
NO SCALE



WIRE CONNECTIONS TO GRID
DETAILS B/3
NO SCALE



CONNECTIONS TO STEEL JOISTS OR PURLINS
DETAIL C/3
NO SCALE



CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES

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

NOT FOR CONSTRUCTION

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

1. 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA/ORS.
2. PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
5. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
6. PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
   (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
   (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS

THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA/ORS APPROVAL.

7. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
8. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC., IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA/ORS.
9. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
10. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
11. CLASSIFICATION OF CEILING GRID:
    CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" PER ASTM C635
    MANUFACTURER'S CATALOG NUMBER – MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL PER TABLE A.
    MANUFACTURER'S CATALOG NUMBER – CROSS RUNNER PER TABLE A.

    MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A.
    ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS 1, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

TABLE A HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE
DONN/USG	DX-26	DX-424	DX-216
ARMSTRONG	7301	7341	7323
CHICAGO MET.	200-01	1204-01	1226-01

NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER

REGISTERED PROFESSIONAL ENGINEER — H. LAW — No. 2310 — Exp 3-31-01 — 9/11/97 — STRUCTURAL — STATE OF CALIFORNIA

FILE NO.
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL. PC 328
AC __ FLS __ SS __
DATE 4/9/97

8-20-97

24 X 40 RELOCATABLE CLASSROOMS

American Modular Systems

CUSTOMER:

CEILING GRID, DETAILS AND NOTES

DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
△			△		
△			△		
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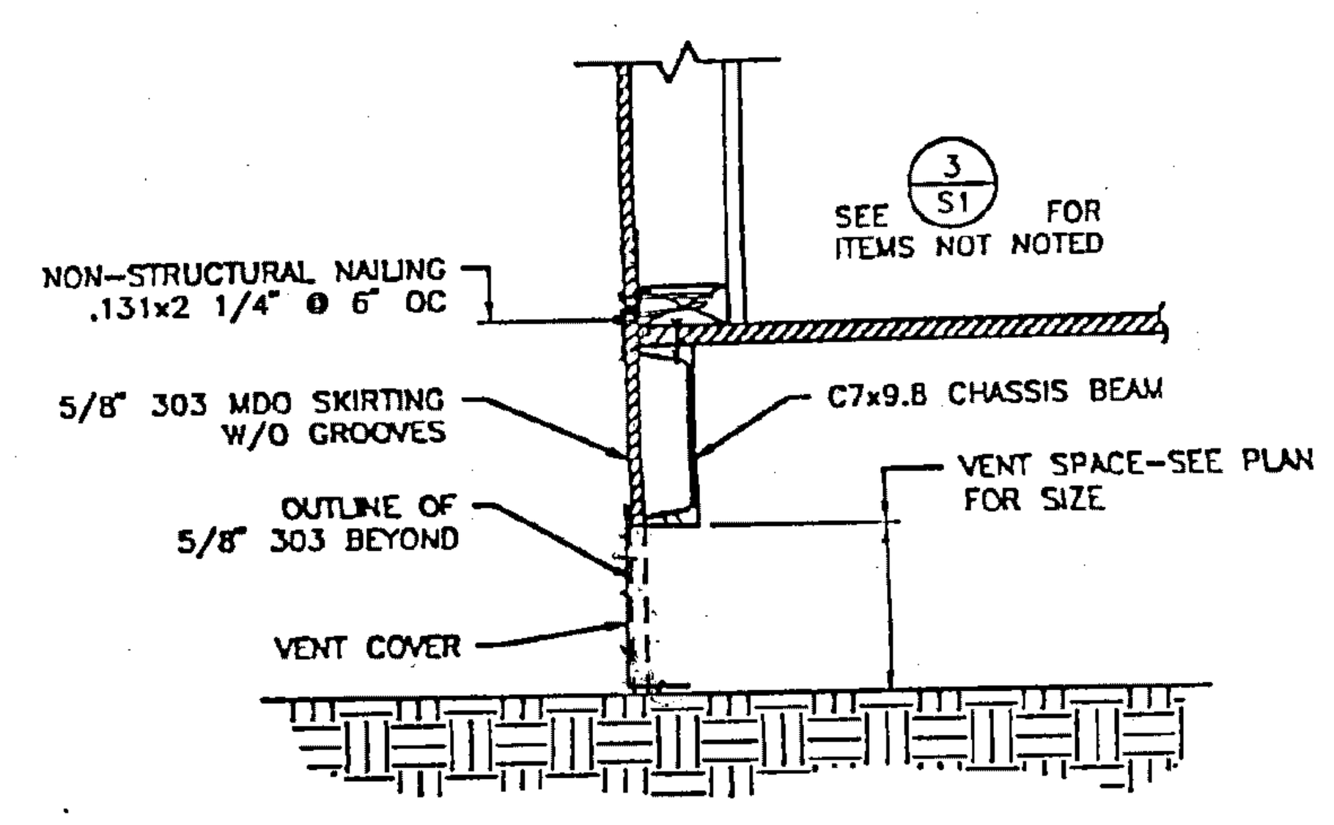
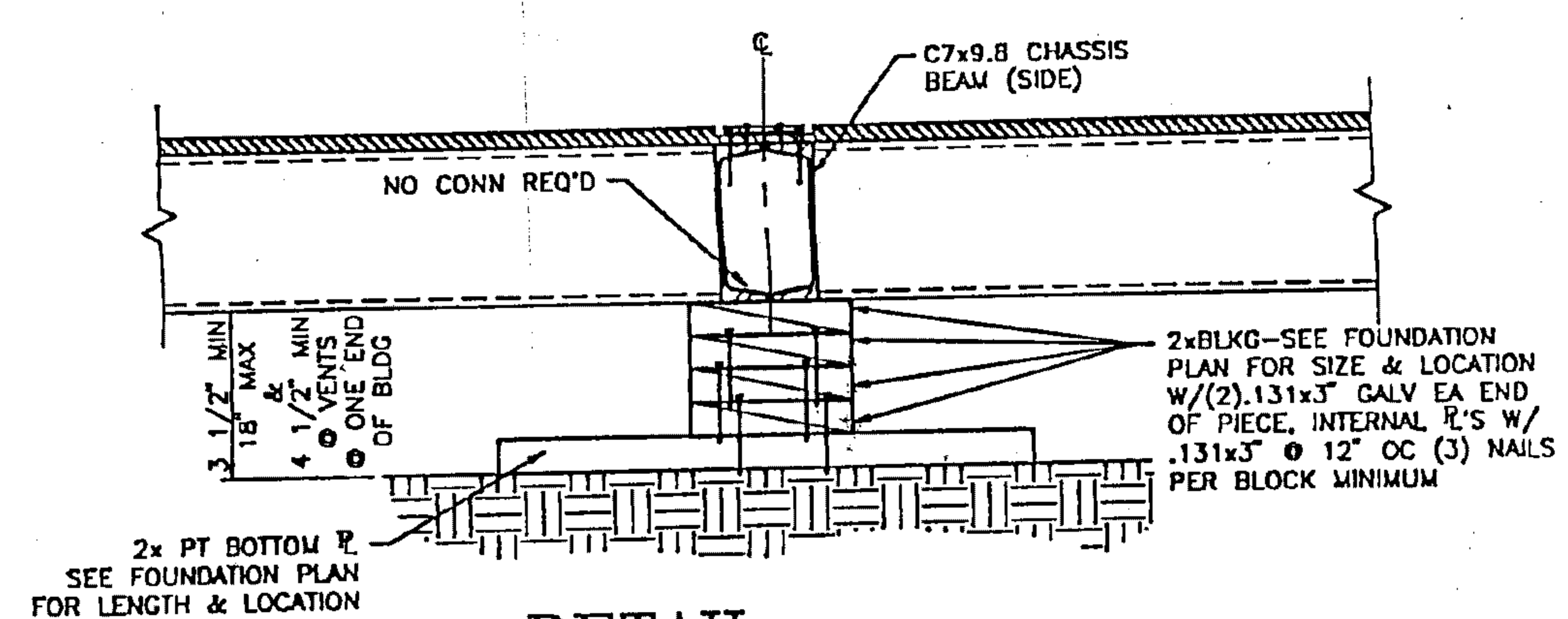
PROJECT No.

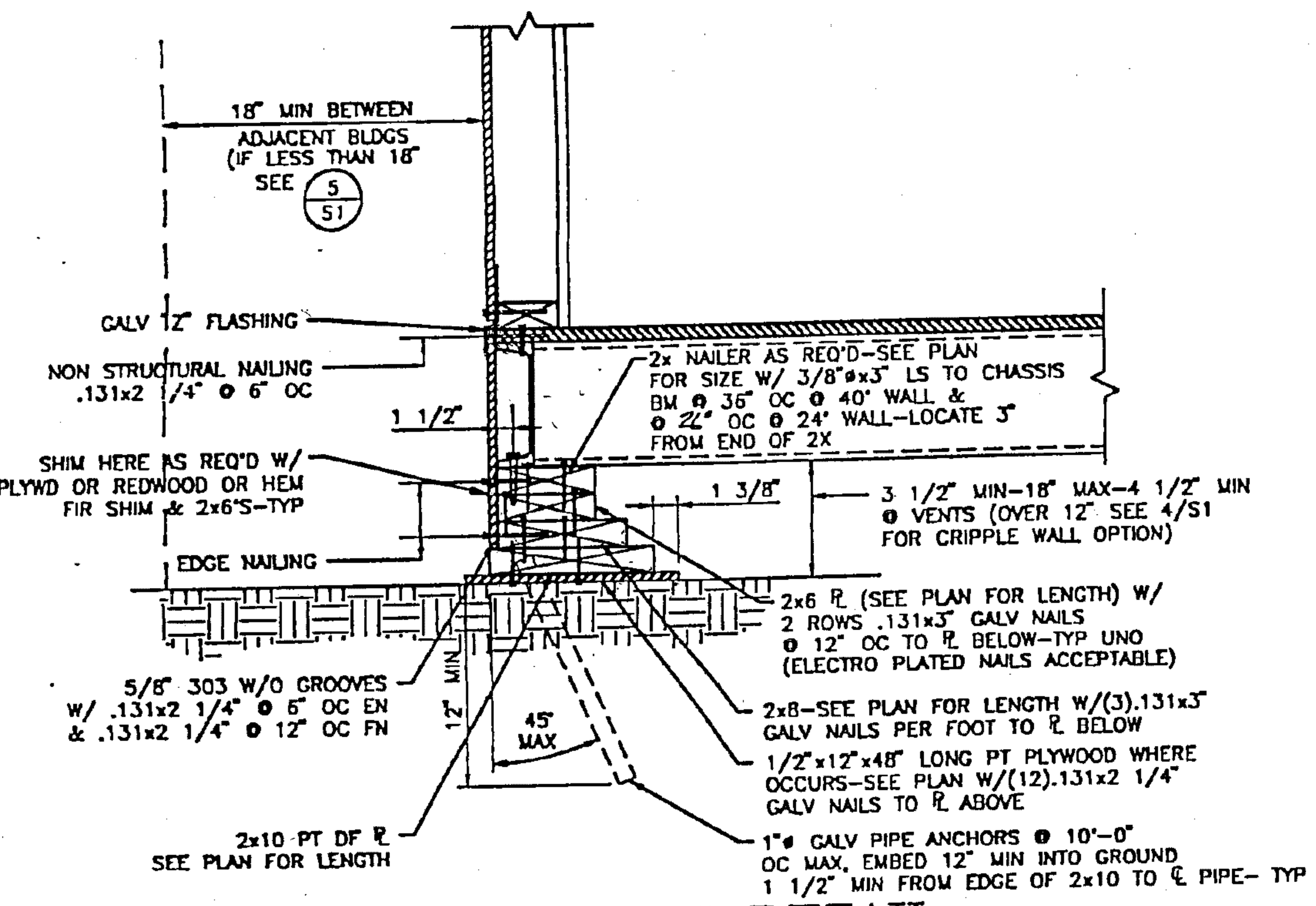
SHEET No. 3



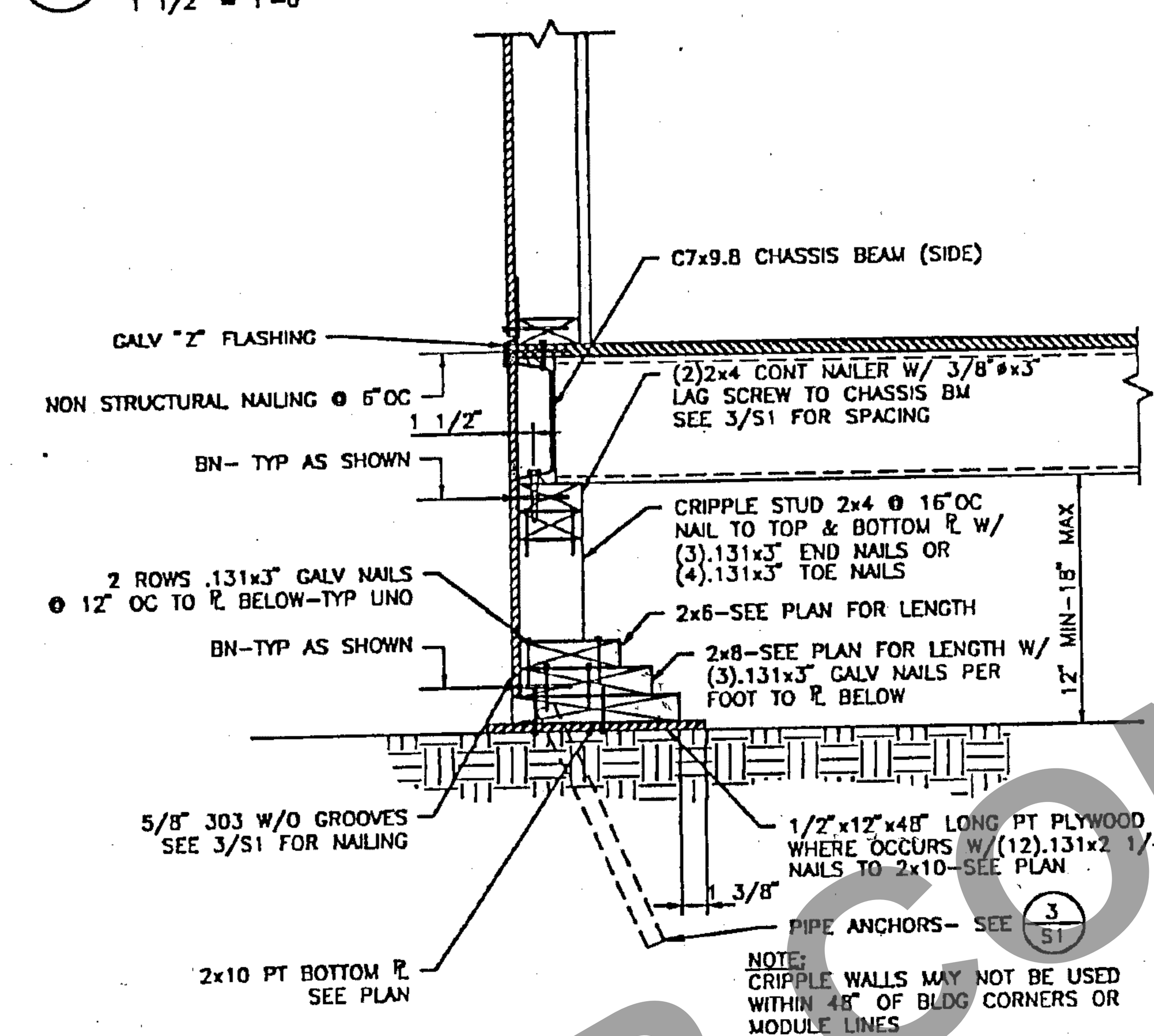
1/S1 FOUNDATION DETAIL
1 1/2" = 1'-0"



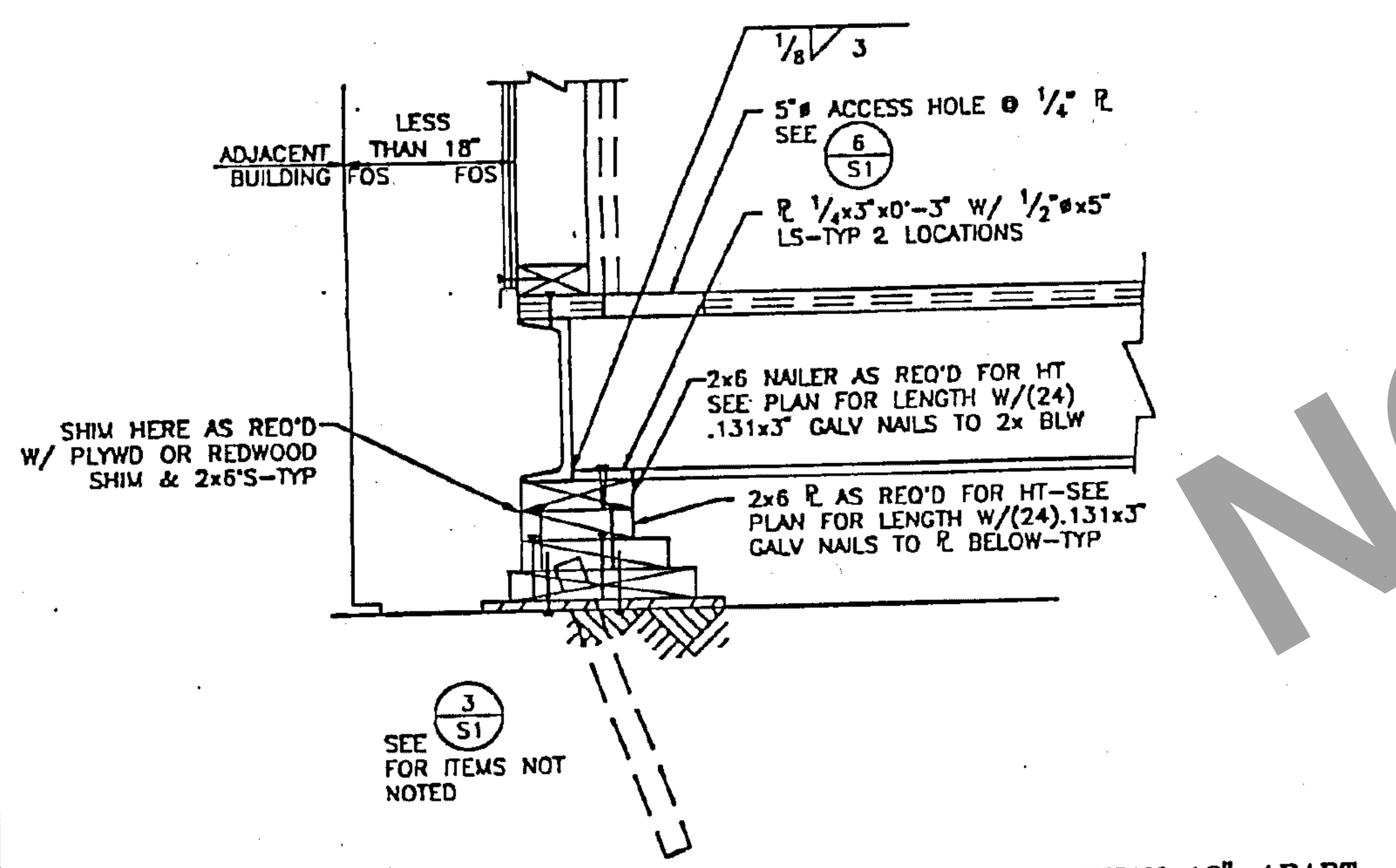
2/S1 DETAIL
1 1/2" = 1'-0"



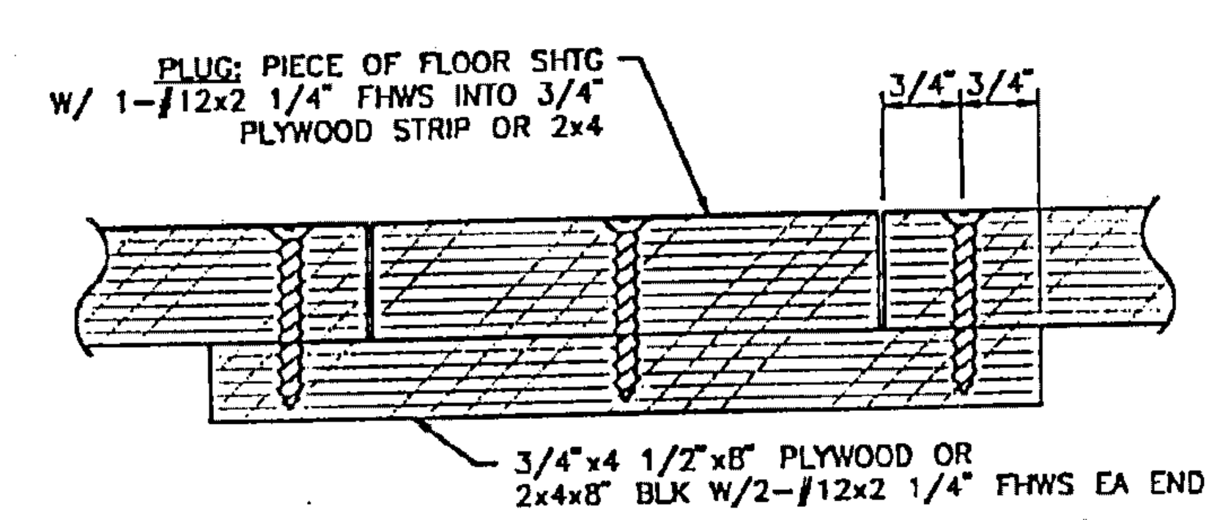
3/S1 FOUNDATION DETAIL
1 1/2" = 1'-0"



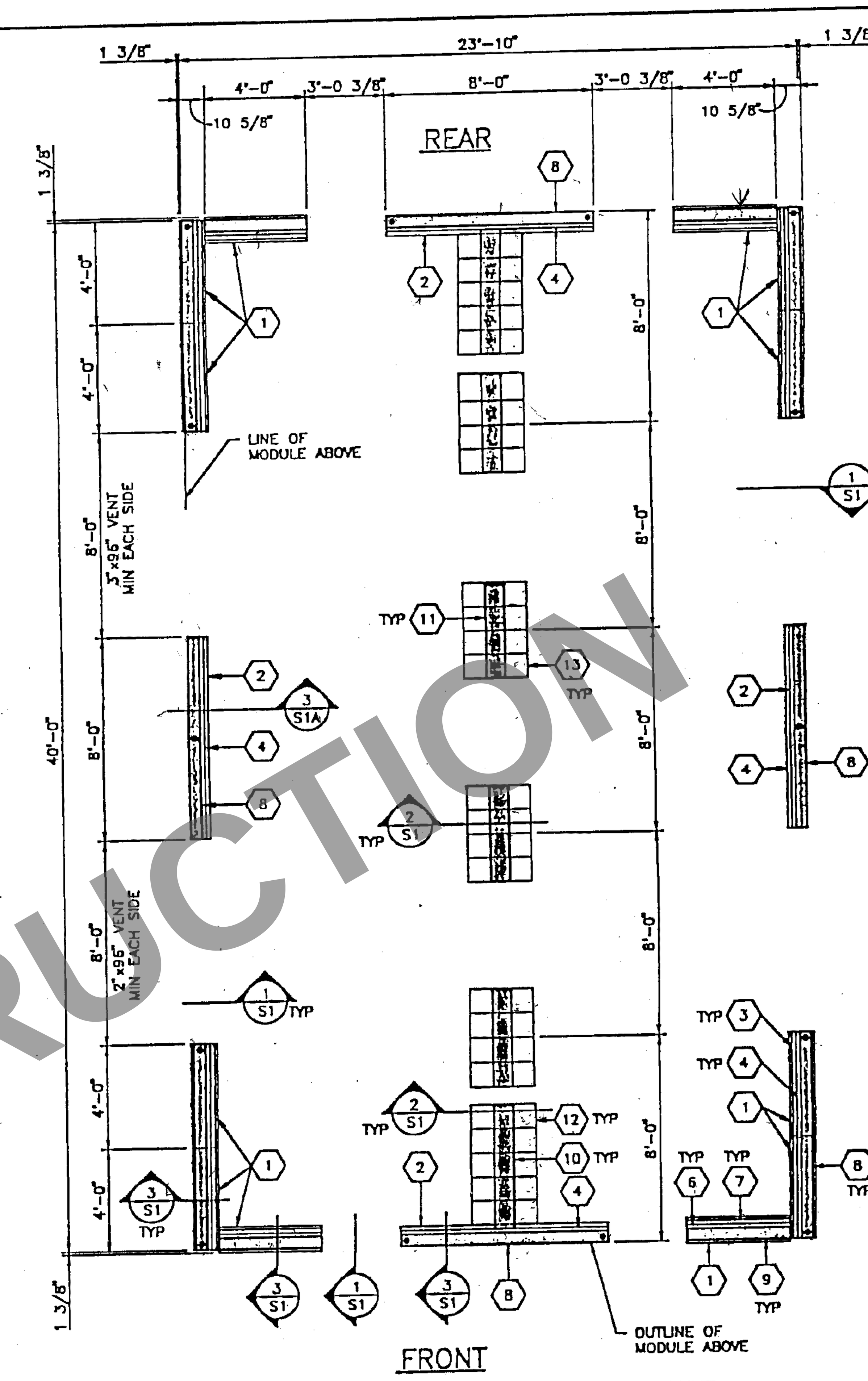
4/S1 FOUNDATION DETAIL
1 1/2" = 1'-0"



OPTIONAL FOR BUILDING PLACES LESS THAN 18" APART
5/S1 FOUNDATION DETAIL
1 1/2" = 1'-0"



FILLER ACCESS HOLE
6/S1 DETAIL
NO SCALE



LEGEND
1. 1/2"x12" WIDE x 48" LONG PT STRUCTURAL PLYWOOD (CDX PLYWOOD)
2. 2x10x8'-0" LONG PT ℘
3. 2x10x8'-0" LONG ℘
4. 2x8x8'-0" LONG ℘
5. NOT USED
6. 2x8x4'-0" LONG ℘
7. 2x10x4'-0" LONG ℘
8. MULTIPLE 2x6x8'-0" LONG AS REQ'D FOR HEIGHT
9. MULTIPLE 2x6x4'-0" LONG AS REQ'D FOR HEIGHT
10. 2x10 ℘ W/ SHIM, SEE 2/S1
11. 2x10 BLKG, SEE 2/S1
12. (5)2x12x2'-6" OR (6)2x10x2'-6" OR (7)2x8x2'-6", SEE 2/S1
13. (4)2x12x2'-0" OR (5)2x10x2'-0" OR (6)2x8x2'-0", SEE 2/S1

• 1" ø GALV. PIPE LOCATIONS–TYPICAL

NOTES:
1. TOP OF WOOD PADS TO BE LEVEL.
2. DO NOT INSTALL BUILDINGS IN AREAS OF WATER LINES.
3. SITE TO BE GRADED TO PREVENT WATER PONDING BENEATH THE STRUCTURE.
4. FOUNDATION PLYWOOD TO BE CUT PERPENDICULAR TO THE FACE GRAIN.
5. VENT AREA REQUIRED = (960SF / 150SF)=6.4 SF
   VENT AREA PROVIDED = 6.67 SF
6. PER THE CONTRACT OF THIS PROJECT–THE BUILDING PAD MUST BE A MINIMUM OF 30'x50' AND SHALL NOT EXCEED 6" OUT OF LEVEL IN ANY DIRECTION.

SILL RESTRAINT:

ON SOIL:	1"ø GALV PIPE W/ 12" MIN PENETRATION BELOW SOIL SURFACE @ 10'-0" OC. DRILL SILL 1 1/4" MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.
ON A/C PAVING:	1"ø GALV PIPE W/ 12" MIN PENETRATION BELOW PAVING SURFACE @ 10'-0" OC. DRILL SILL 1 1/4" MAX OR 20d NAILS THRU SILL ℘ @ 32" OC
ON CONC PAVING:	HILTI DS 82-P10 THRU SILL ℘ @ 4'-0" OC.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL 6 ... 17. DATE 8-20-97

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 320 DATE 4/9/97

REGISTERED PROFESSIONAL ENGINEER No. 2310 Exp 3-31-01 STRUCTURAL STATE OF CALIFORNIA

NOTE: PER THE CONTACT FOR THIS PROJECT THE BUILDING PAD MUST BE 30' x 50'. THE PAD SHALL NOT BE MORE THAN 6" OUT OF LEVEL IN ANY DIRECTION.

A/S1 FOUNDATION PLAN
1/4" = 1'-0"

FOUNDATIONS:
ALL FOUNDATION MATERIALS IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED EXCEPT SHIMS MAY BE REDWOOD, HEM FIR OR CEDAR. PRESSURE TREATED DOUGLAS FIR, HEM FIR, PLYWOOD ETC. SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING: "THE MATERIAL IN THIS UNIT WAS TREATED PER 1995 CALIFORNIA BUILDING CODE. ALL MATERIAL FOR USE IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" (LP22). ALL MATERIAL NOT USED IN GROUND CONTACT SHALL BE H.F.#2 OR D.F.#2 FOR ABOVE GROUND USE. THE IN-PLANT INSPECTOR SHALL VERIFY THAT ALL PRESSURE TREATED FOUNDATION MATERIAL IS CUT FROM AWPB STAMPED STOCK AND THAT ALL CUTS AND HOLES ARE RETREATED PER SPECIFICATIONS. LP-2 AND LP-22 MATERIAL SHALL BE BANDED SEPARATELY FOR SHIPMENT TO THE JOB SITE. THE IN-PLANT INSPECTOR'S VERIFICATION OF EACH BANDED UNIT SHALL BE ATTACHED TO THE MATERIAL.
CONCRETE OR CONCRETE BLOCK FOUNDATIONS ARE NOT ALLOWED. THE FOOTING DESIGN SHALL PROVIDE FOR SHIMS AND BLOCKS NECESSARY TO PERMIT INSTALLATION ON SITES NOT LEVEL, BUT WITHIN TOLERANCE ALLOWED.
INSTALLATION SHALL BE PERMITTED ON EITHER SOIL, CONCRETE OR A/C PAVING, HAVING SUITABLE DESIGN BEARING CAPACITY. THE BUILDINGS SHALL BE SECURELY FASTENED TO THE FOUNDATIONS. THE FOUNDATIONS AND THE METHOD OF FASTENING SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND DSA. PADS SHALL BE DESIGNED FOR A MAXIMUM OF 1000 PSF LOAD ON THE SOIL. PADS SHALL NOT BE PLACED ON TURF.

WOOD: 50 PSF FLOOR LIVE LOAD

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

REGISTERED PROFESSIONAL ENGINEER No. 3887 STRUCTURAL STATE OF CALIFORNIA

CUSTOMER:

FOUNDATION PLAN, NOTES, SECTIONS AND DETAILS
WOOD FOUNDATION; 50 PSF

DATE:	MARCH 3, 1997
SCALE:	AS NOTED
DRAWN BY:	KDT
DESIGNED BY:	MDB
CHECKED BY:	BJR
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
△			△		
△			△		
△			△		

PROJECT No. 97023

SHEET No. S1

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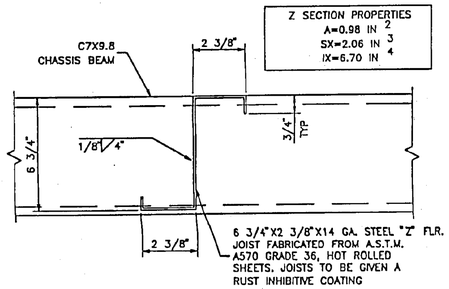
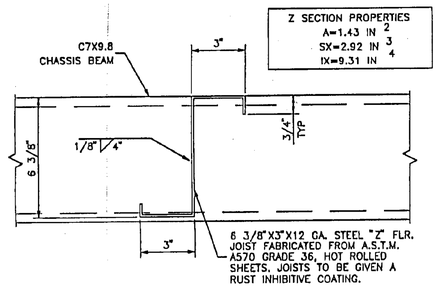
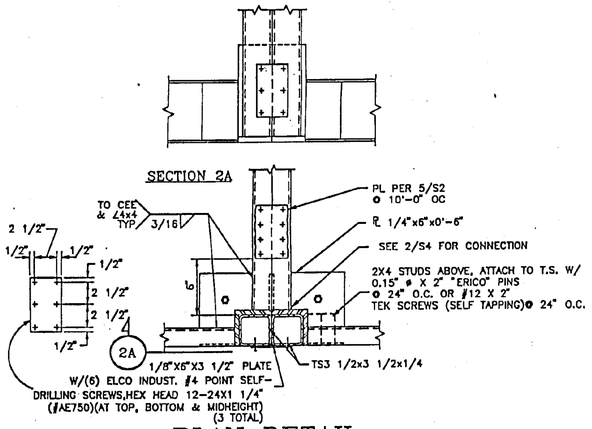


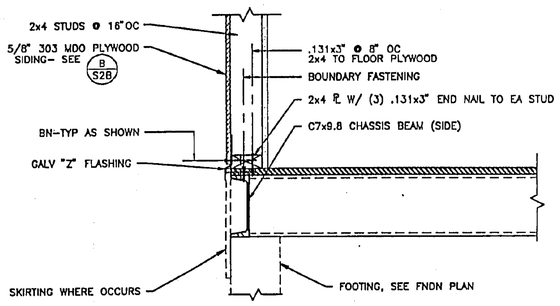
1 S2 DETAIL
NO SCALE



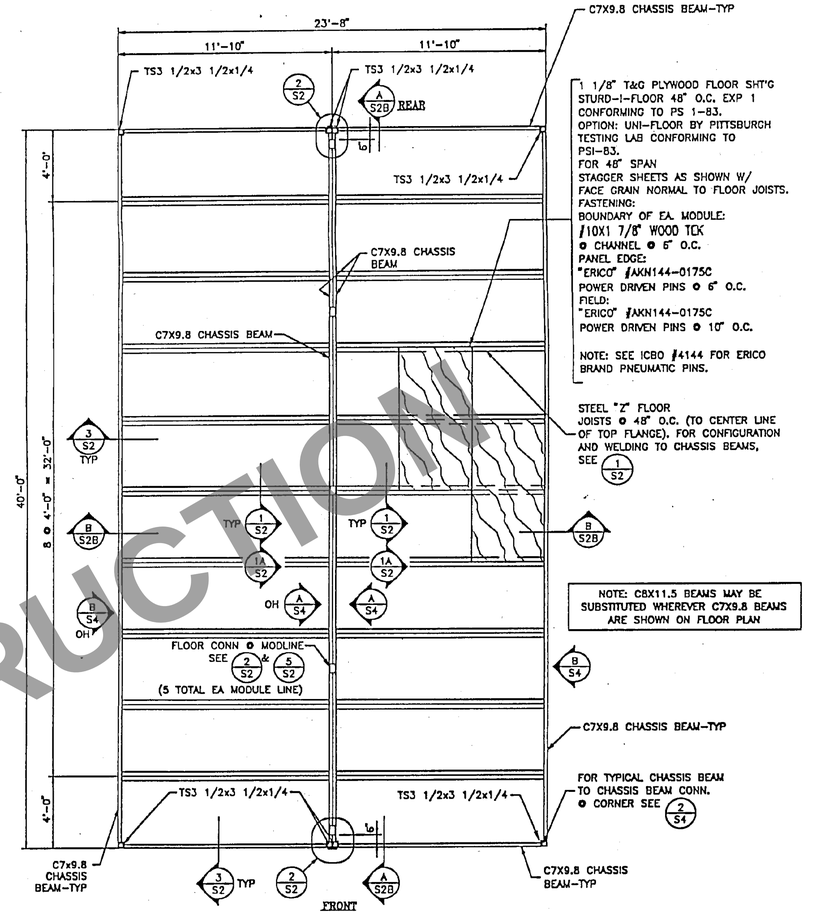
1A S2 DETAIL
NO SCALE



2 S2 PLAN DETAIL
NO SCALE

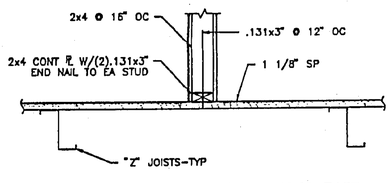


3 S2 DETAIL
1 1/2" = 1'-0"

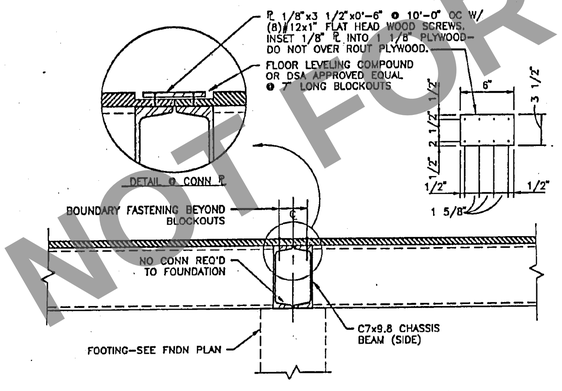


NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.

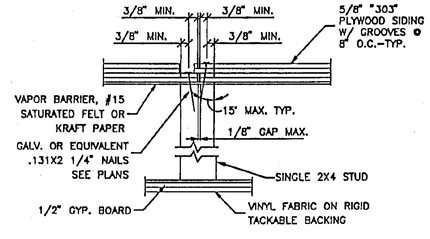
A S2 FLOOR FRAMING PLAN
1/4" = 1'-0"



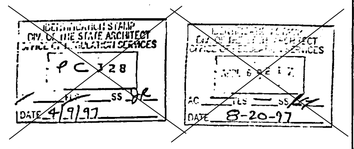
TYP INTERIOR NON-BEARING WALL BASE
6 S2 DETAIL
1" = 1'-0"



5 S2 DETAIL
1 1/2" = 1'-0"



TYPICAL SIDING JOINT
4 S2 DETAIL
NO SCALE



50 PSF FLOOR LIVE LOAD

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

CUSTOMER:

FLOOR FRAMING PLAN AND DETAILS
50 PSF FLOOR LOAD

DATE: MARCH 3, 1997
SCALE: AS NOTED
DRAWN BY: KDT
DESIGNED BY: MDB
CHECKED BY: BJR
SERIAL NO.

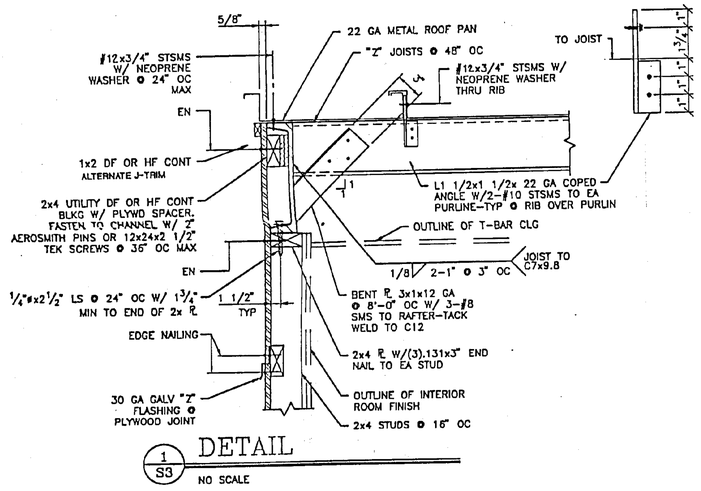
REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			4		
2			5		
3			6		

PROJECT No. 97023

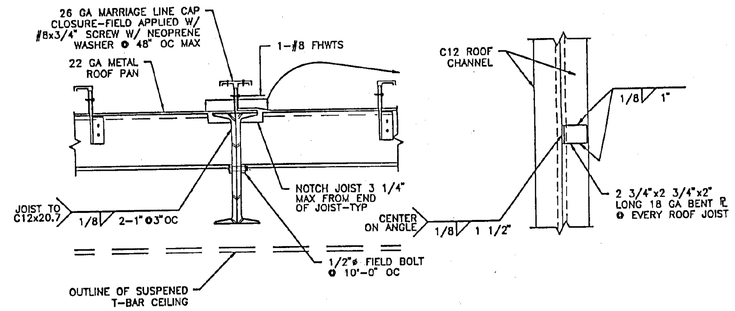
SHEET No. S2

K:\97023\ACAD\STRUS2 2-10-97 3:21:18 pm EST



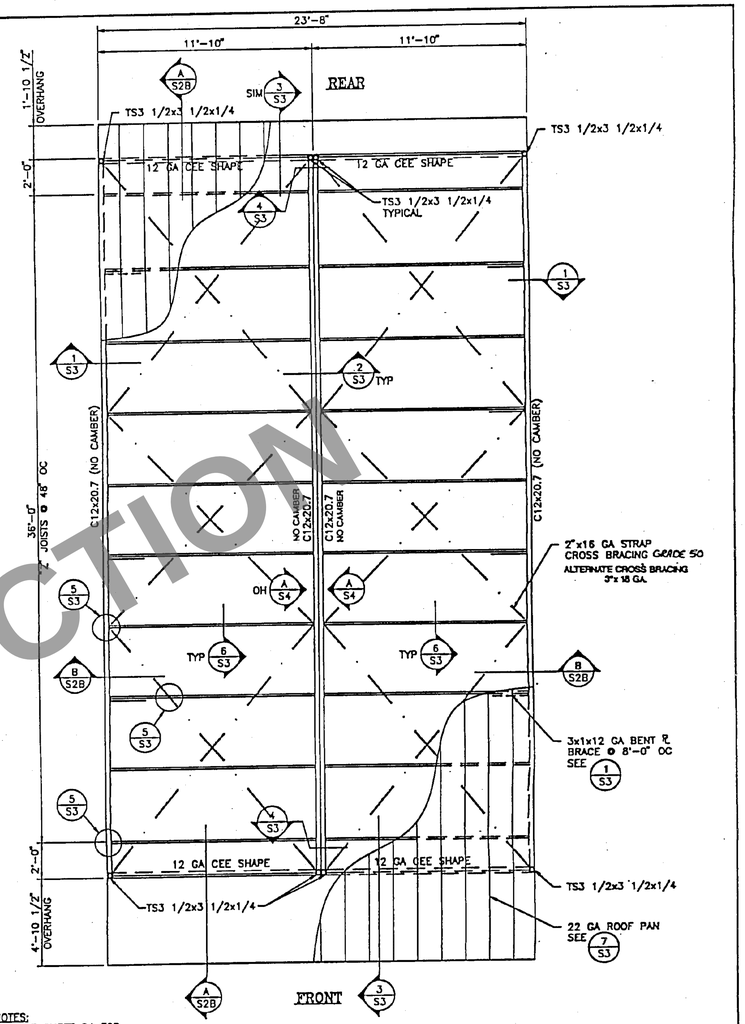
1 S3 DETAIL

NO SCALE



2 S3 DETAIL

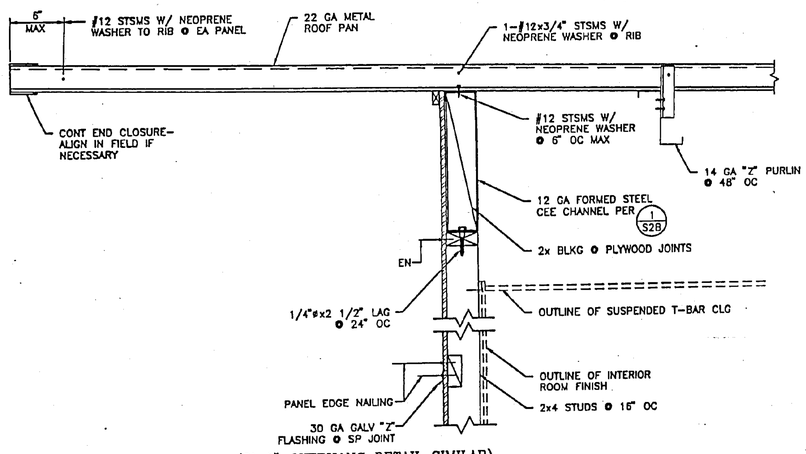
NO SCALE



NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.

A S3 ROOF FRAMING PLAN

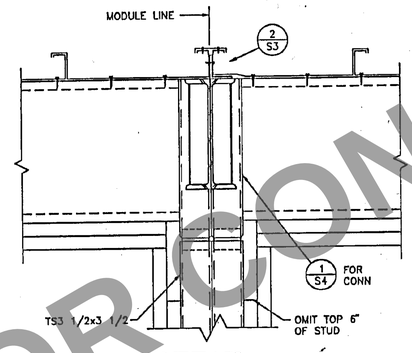
1/4" = 1'-0"



(2'-0" OVERHANG DETAIL SIMILAR)

3 S3 5'-0" OVERHANG DETAIL

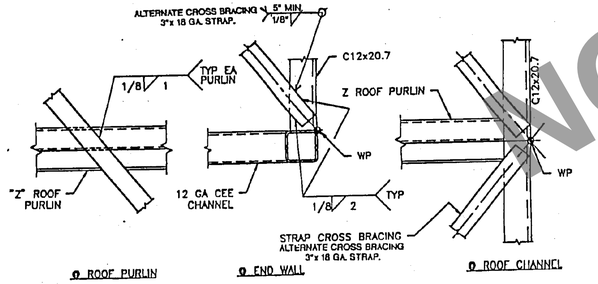
NO SCALE



4 S3 DETAIL

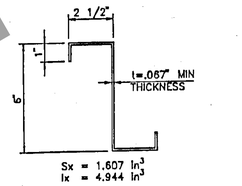
NO SCALE

NOT FOR CONSTRUCTION



5 S3 CROSS BRACING DETAIL

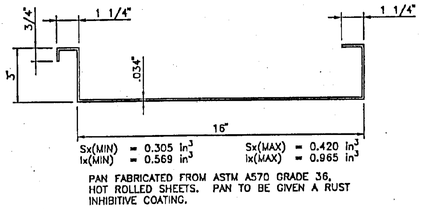
1 1/2" = 1'-0"



JOIST FABRICATED FROM ASTM A570 GRADE 36, HOT ROLLED SHEETS. JOISTS TO BE GIVEN A RUST INHIBITIVE COATING.

6 S3 14 GA ROOF PURLIN DETAIL

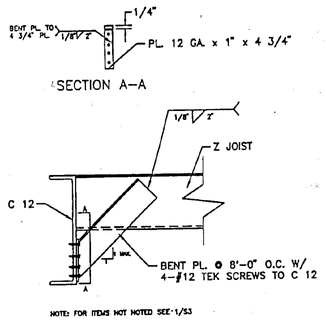
3" = 1'-0"



PAN FABRICATED FROM ASTM A570 GRADE 36, HOT ROLLED SHEETS. PAN TO BE GIVEN A RUST INHIBITIVE COATING.

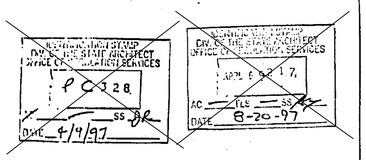
7 S3 22 GA ROOF PAN DETAIL

3" = 1'-0"



8 S3 ALT. BRACE CONNECTION DETAIL

N.T.S.



24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

CUSTOMER:

ROOF FRAMING PLAN AND DETAILS

DATE: MARCH 3, 1997
SCALE: AS NOTED
DRAWN BY: KDT
DESIGNED BY: MDB
CHECKED BY: BJR
SERIAL NO.

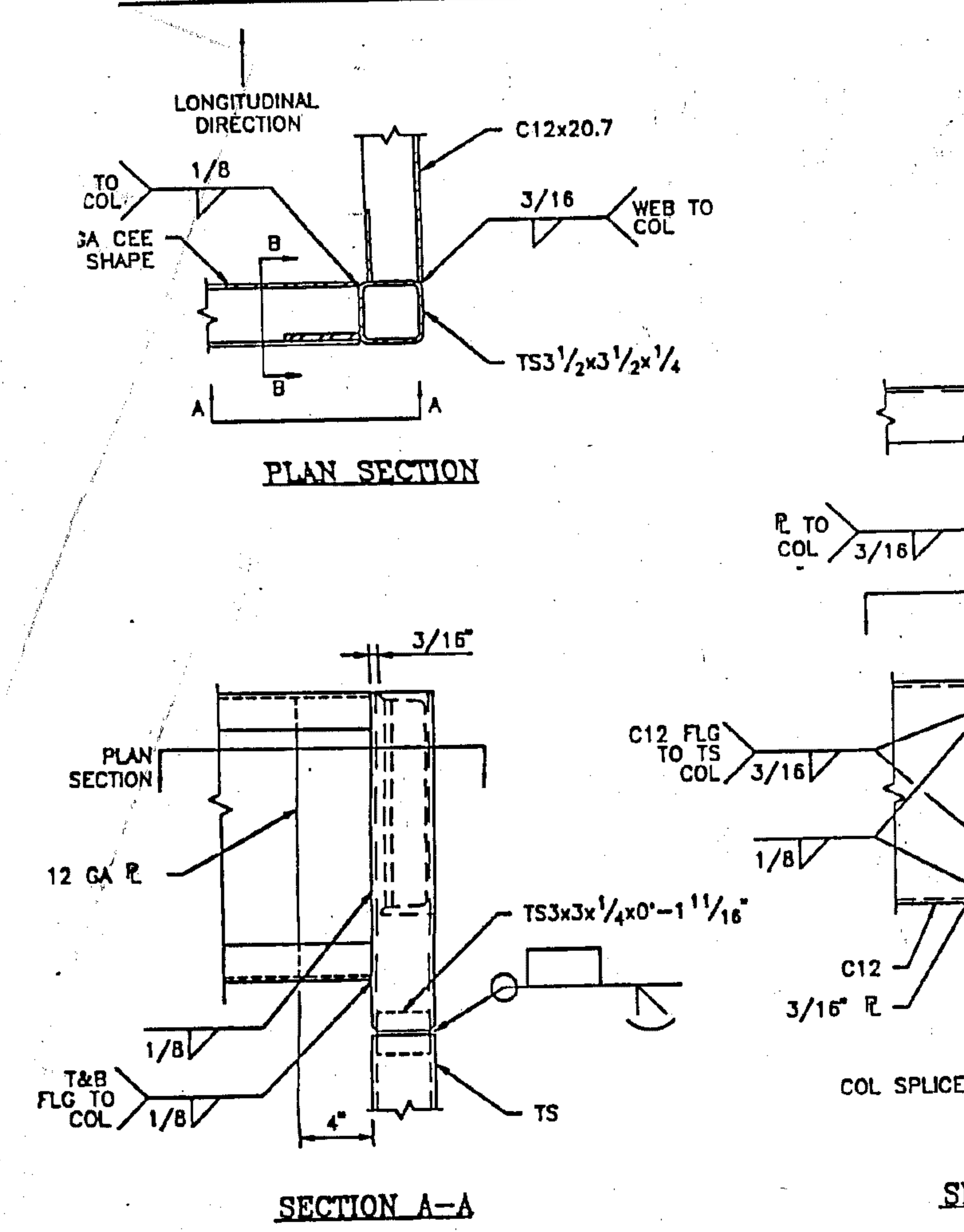
REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

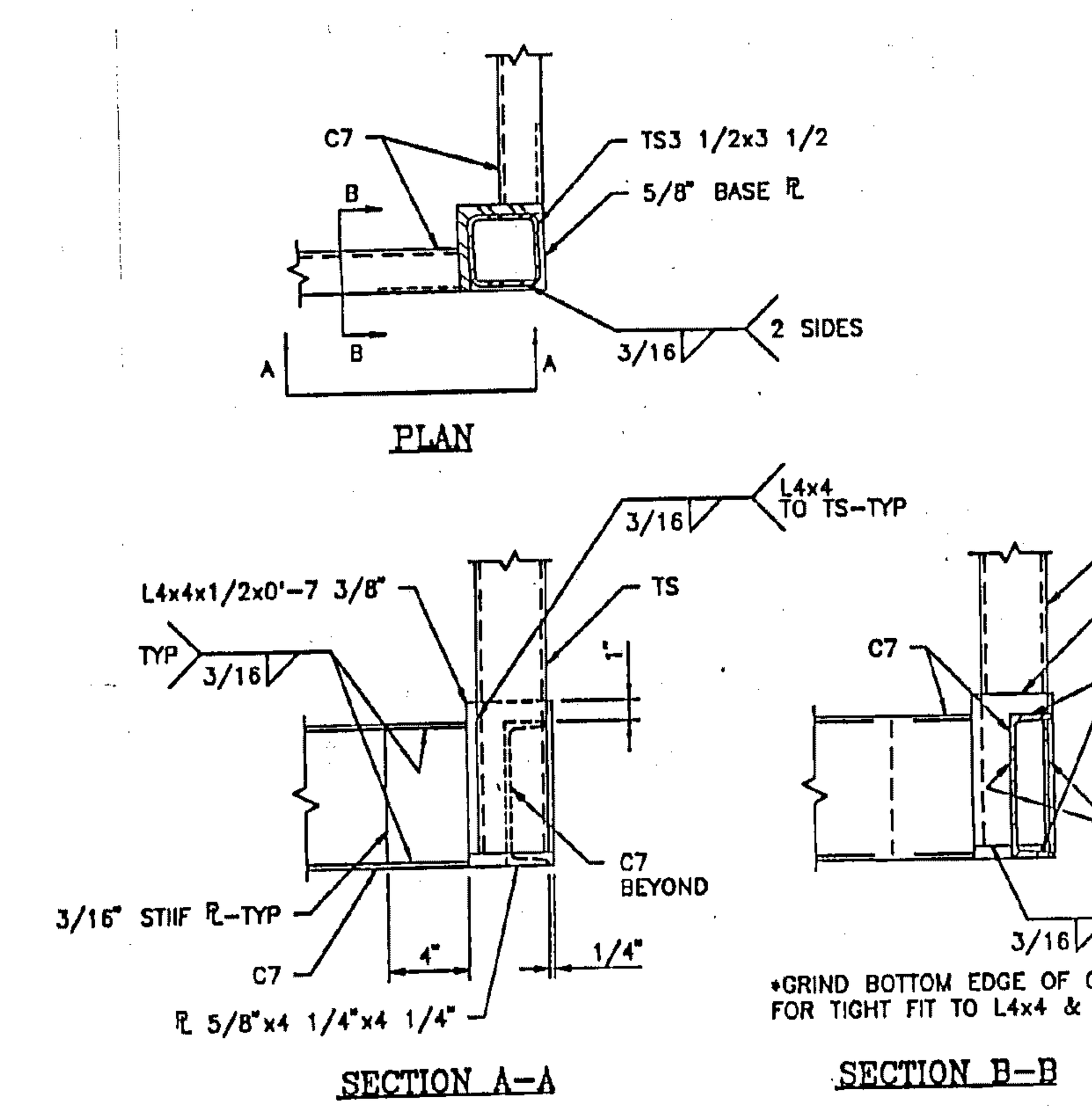
PROJECT No. 97023

SHEET No. S3

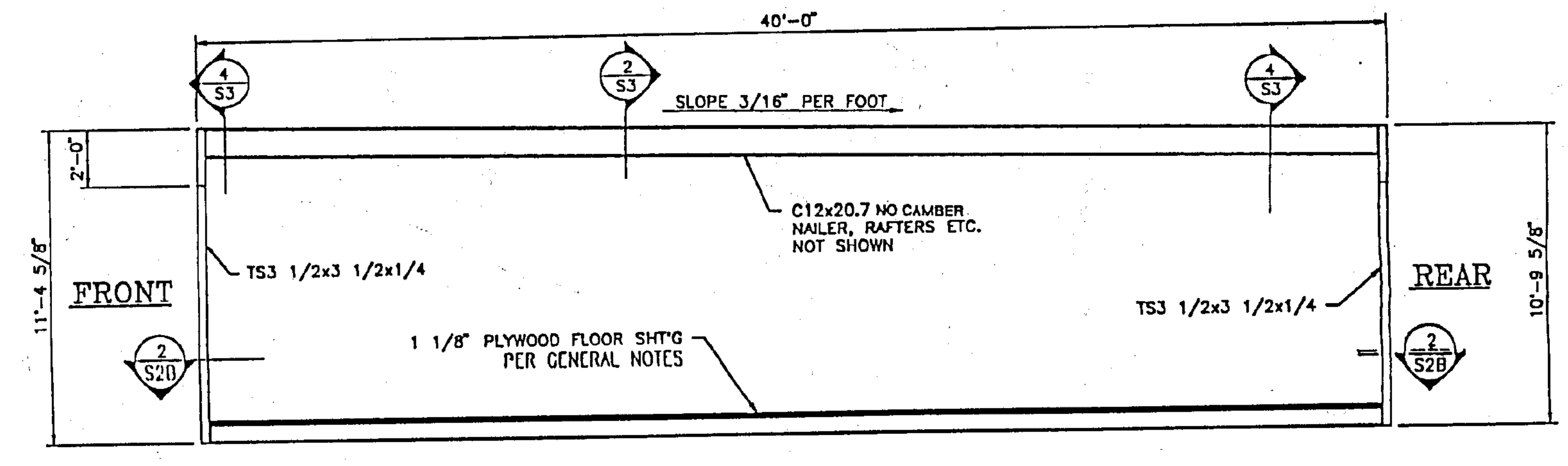
S3 2-27-97 9:41:11 am EST



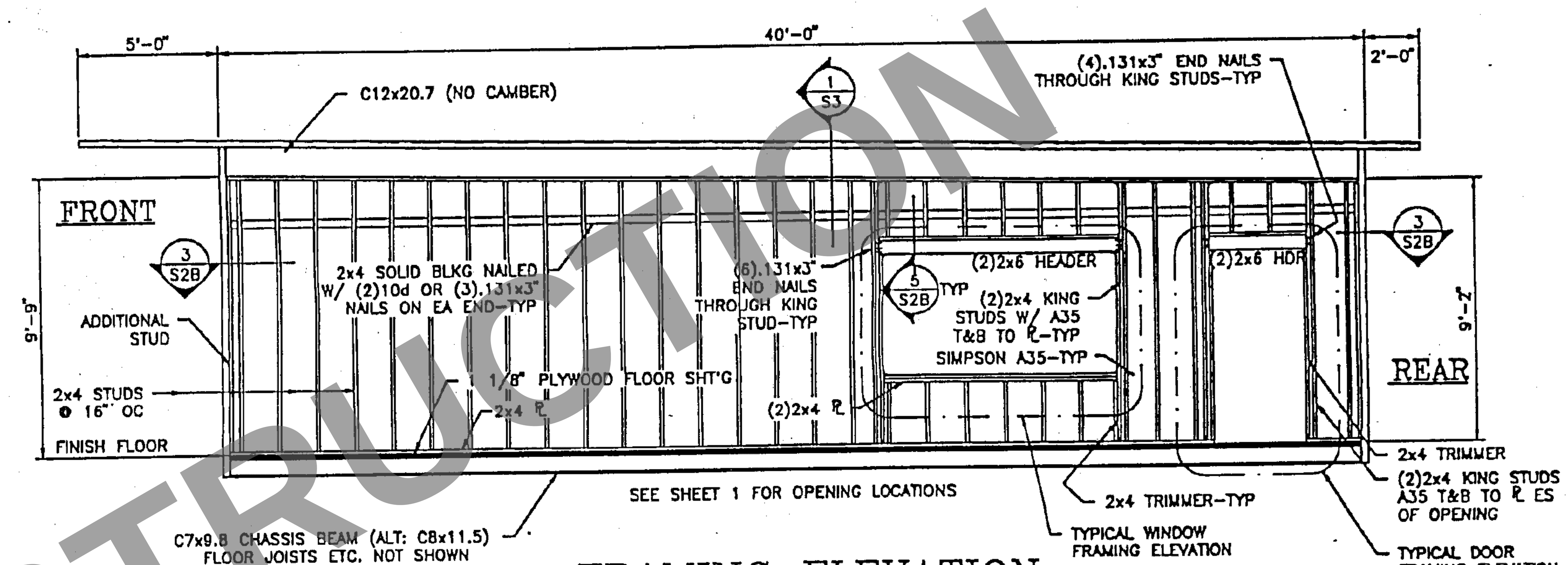
TOP CONNECTION DETAIL (1/S4) 1 1/2" = 1'-0"



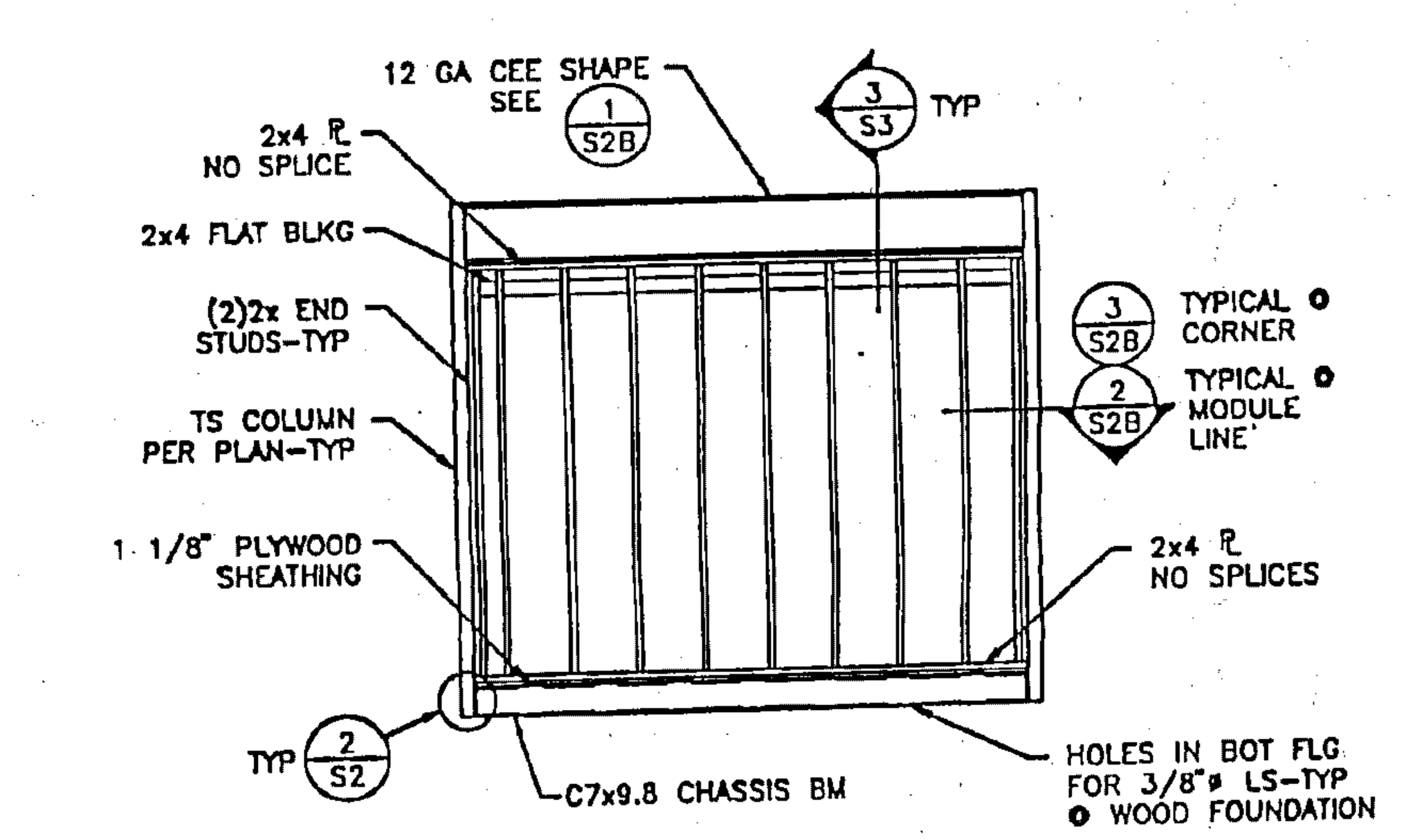
BOTTOM CONNECTION DETAIL (2/S4) 1 1/2" = 1'-0"



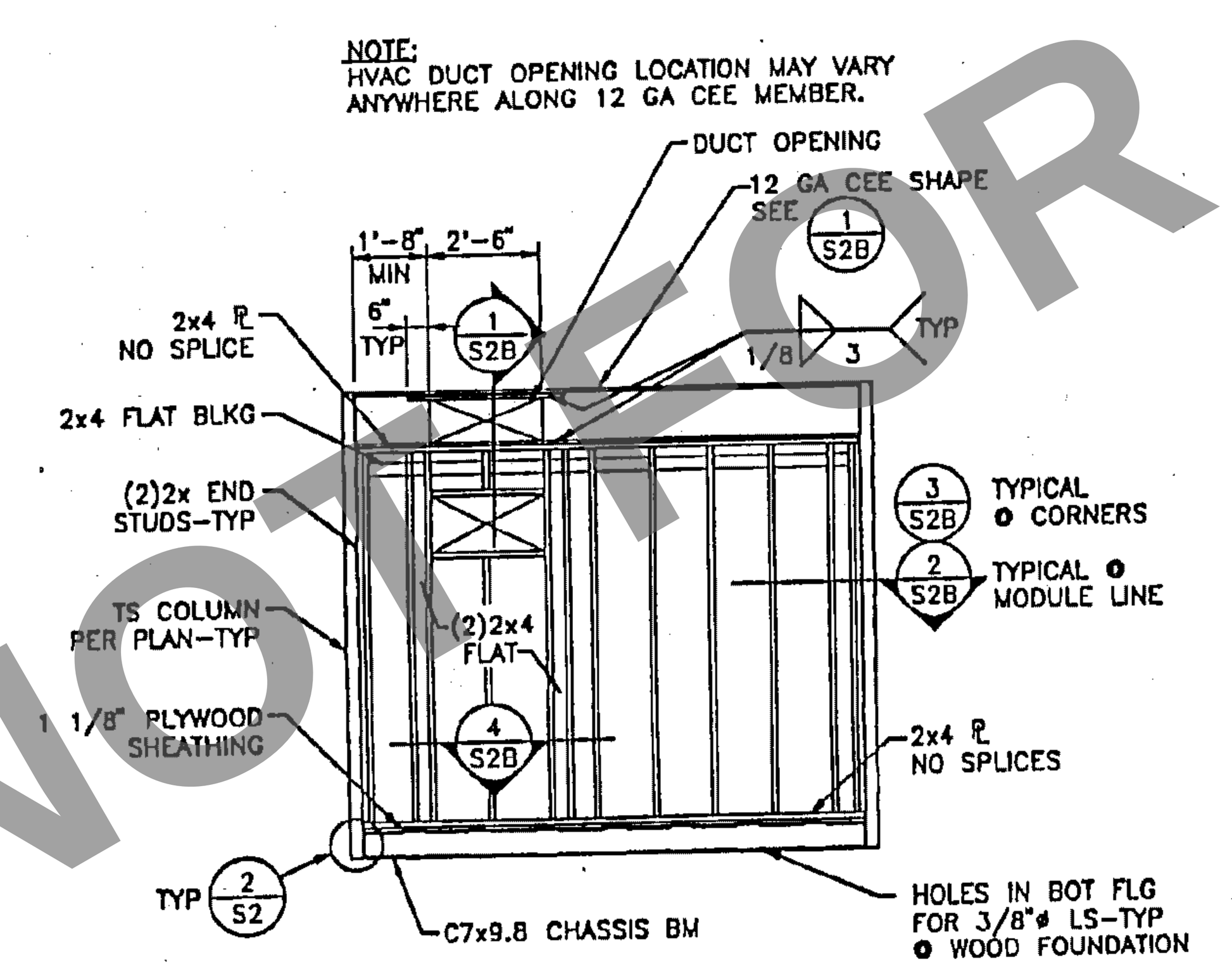
FRAMING ELEVATION (A/S4) 1/4"=1'-0"



FRAMING ELEVATION (B/S4) 1/4"=1'-0"

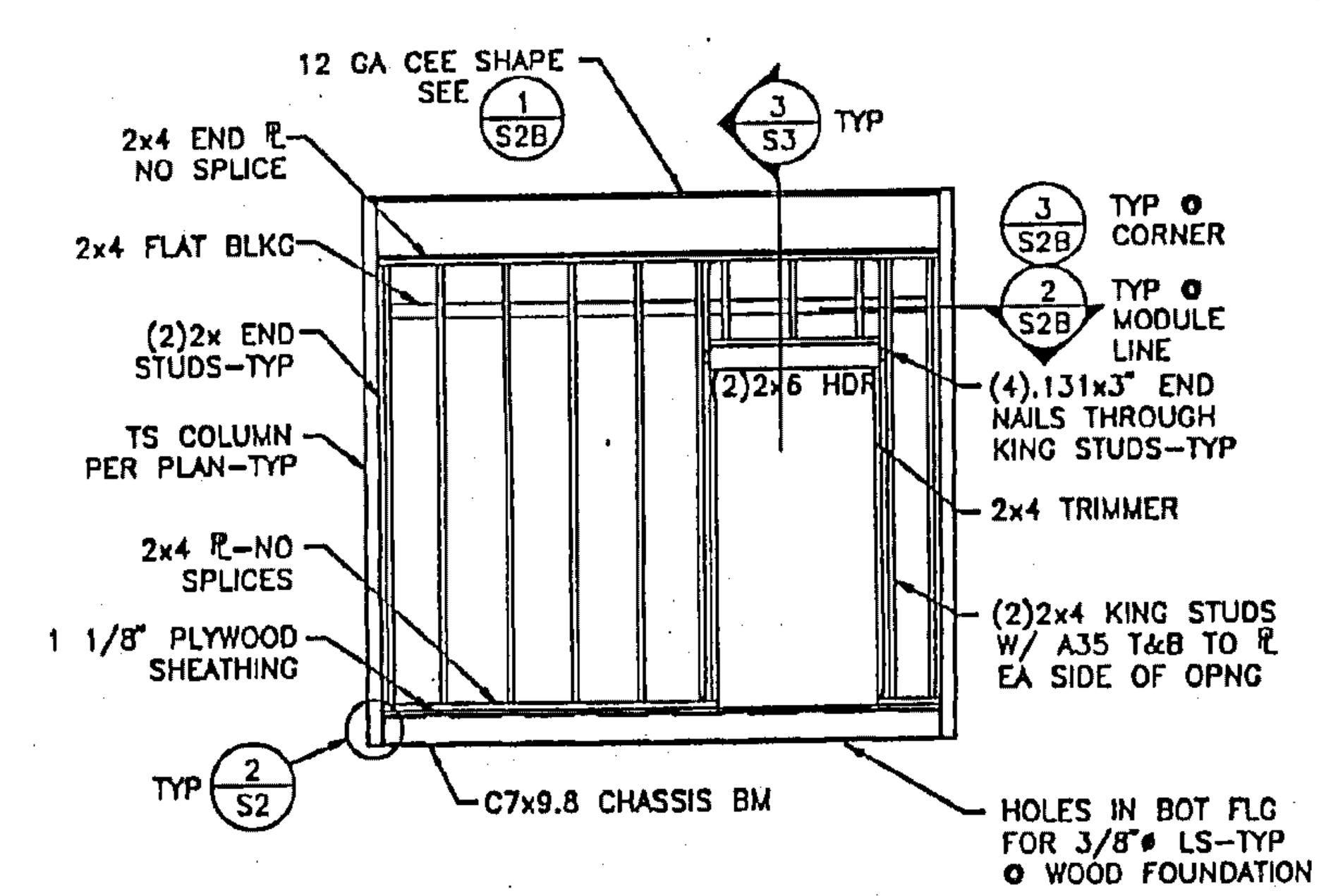


SOLID END WALL ELEVATION (C/S4) 1/2" = 1'-0"



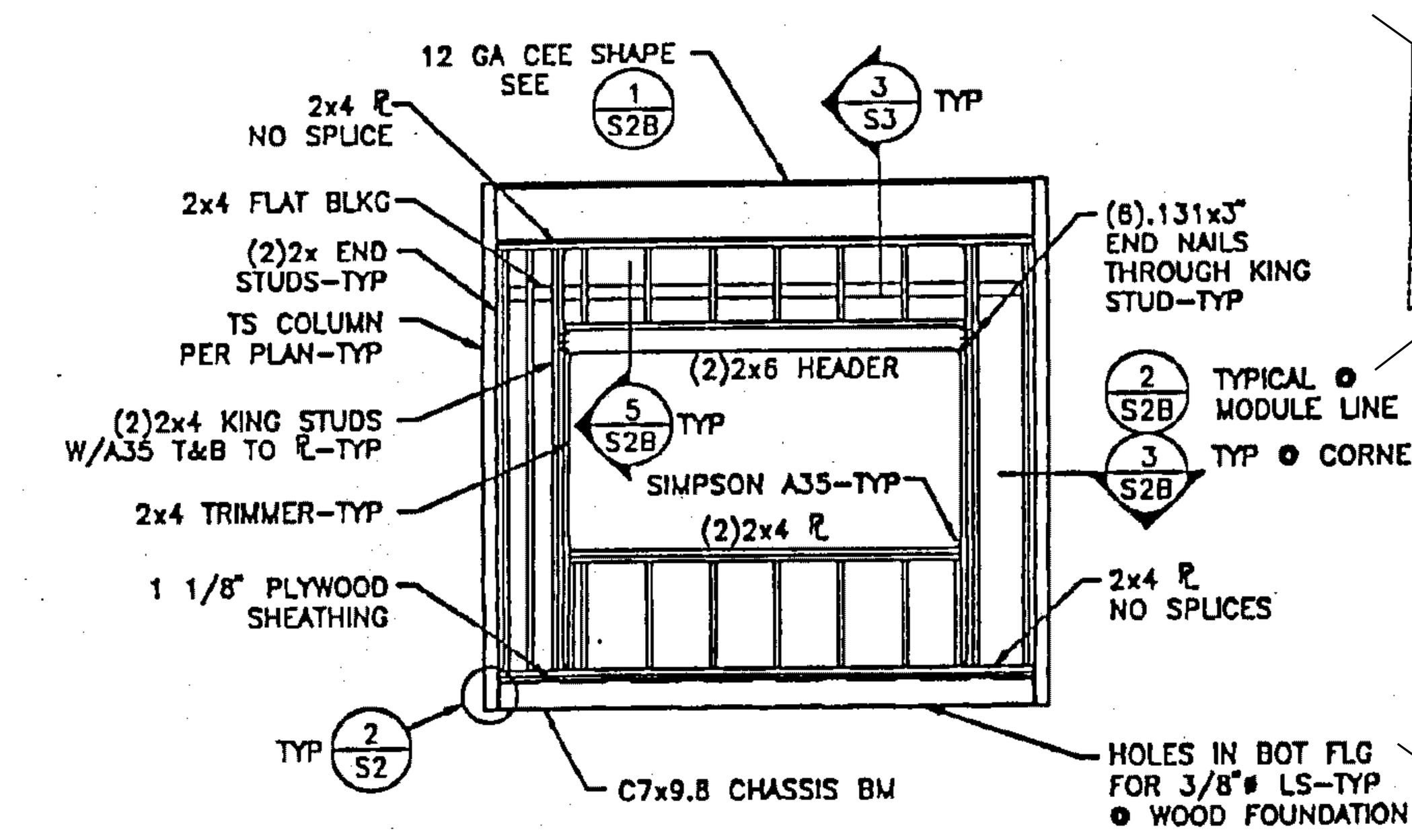
SEE SHEET 1 FOR OPENING LOCATION

HVAC END WALL ELEVATION (D/S4) 1/2" = 1'-0"



SEE SHEET 1 FOR OPENING LOCATION

DOOR END WALL ELEVATION (E/S4) 1/4"=1'-0"



SEE SHEET 1 FOR OPENING LOCATION

WINDOW END WALL ELEVATION (F/S4) 1/2" = 1'-0"

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

CUSTOMER:

FRAMING ELEVATIONS AND DETAILS

DATE:	MARCH 3, 1997
SCALE:	AS NOTED
DRAWN BY:	KDT
DESIGNED BY:	MDB
CHECKED BY:	BJR
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 97023

SHEET No. S4

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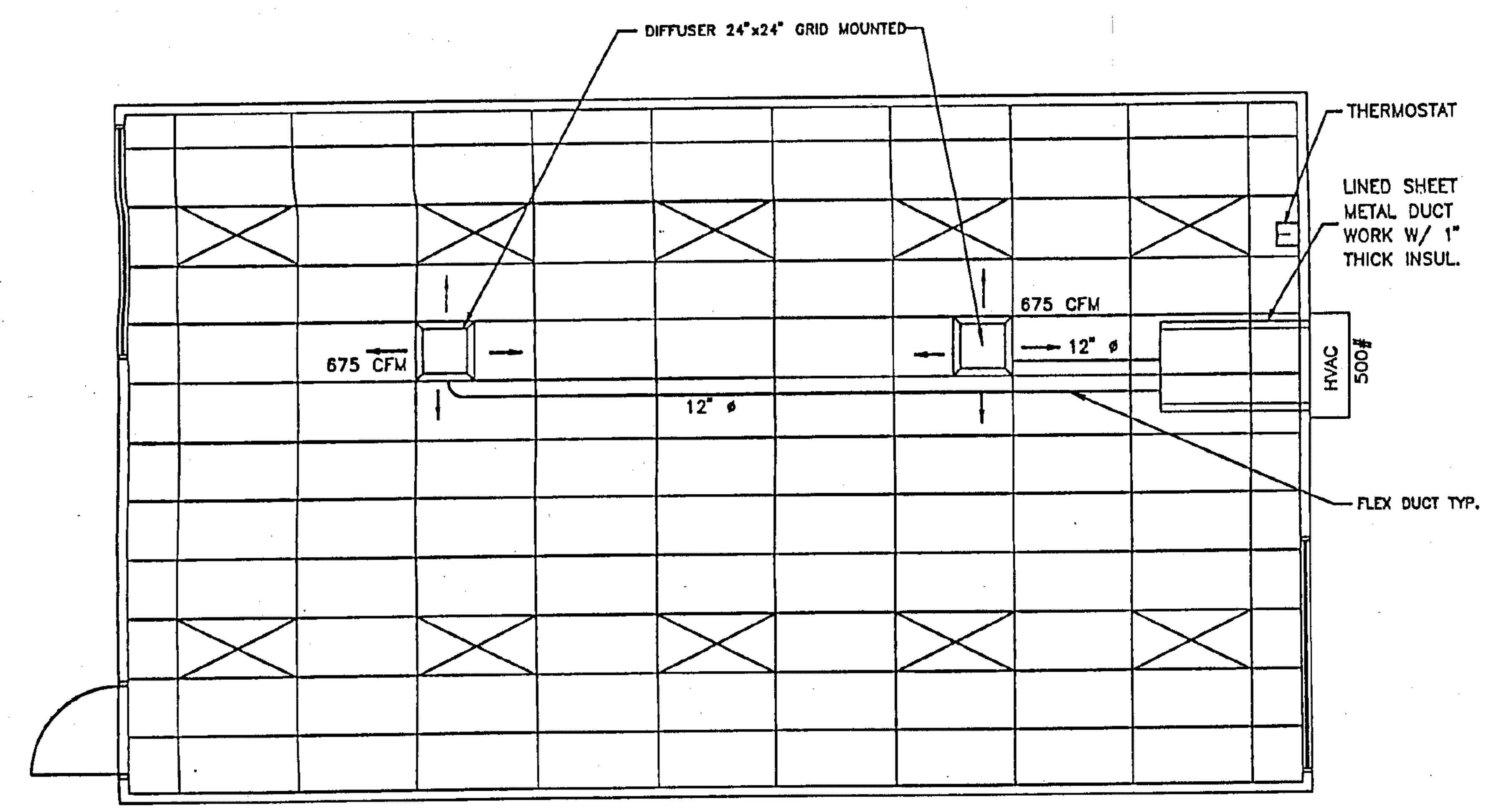
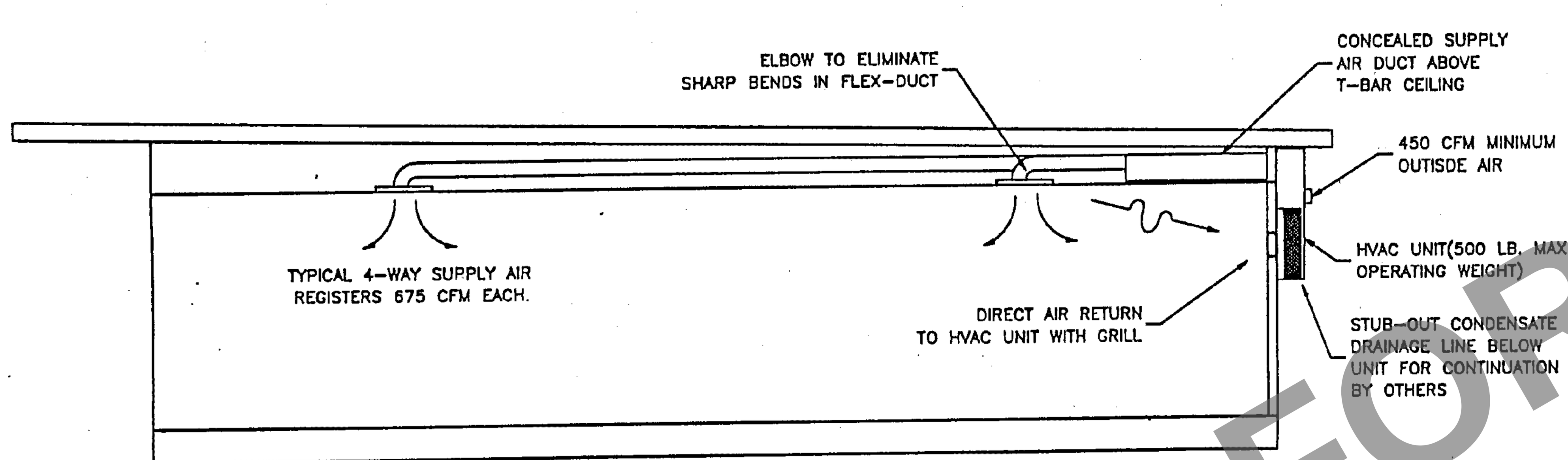


HEAT/SUPPLY AIR DUCT LAYOUT

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



HEAT/SUPPLY AIR DUCT CROSS SECTION

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

NOT FOR CONSTRUCTION

DUCT SUPPORT

Flex duct to be supported with 1-1/2" wide x 26 ga. galv. strap @ max 6'-0" o.c. Attach to rafter W/2 #8 SMS @ each end.
Supply air plenum to be supported with 1-1/2" wide x 26 ga. galv. straps min. 2 per plenum.
Supply air box and diffusers to be supported with (2) 12 ga. hanger wires to box @ opposite corners.
Supply air box and diffusers to be braced with (2) 12 ga. slack wires to box @ opposite corners. Attach supply air diffusers to ceiling grid to resist a lateral load equal to the weight of the diffuser and supply air box W/2 #8 SMS.

THESE DRAWINGS COMPLY WITH THE ENERGY CONSERVATION REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA

GENERAL NOTES

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. Heat Pump: Single package wall mounted air to air electric heat pump unit shall be rated in accordance with ARI Standard 240-77.
   Reference Brands: BARD WH42A-XXXXXX
   MARVAIR AVP 42 HPA-08S

   All units shall be 230/208 volt, 1 phase system, UL tested & approved or comparable and meet current energy standards.

   A.) The system shall maintain an automatically controlled indoor classroom temperature of 78 degrees F. When the outdoor dry bulb temperature varies between 100 degrees F. in the summer
   B.) The system must maintain the above temperature when the damper is adjusted to use approximately one third fresh air.
2. Duckwork.
   A.) Construct all ductwork of galvanized sheet metal in accordance with U.M.C., Ashrae Guide Equipment volume and Smacna Low Velocity Duct Construction manual latest editions. All ductwork shall be insulated with 1" thick fiberglass duct wrap with vapor barrier. Provide 1" duct attenuation at all ductwork within 5'0" of HVAC unit.

   B.) Non-metallic ductwork option: In accessible concealed portions of duct system rigid 1" fiberglass or insulated flex-duct with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 5' of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure.
   Reference Brands: Owens-Corning fiberglass ducttboard, 1" thick, and Micro-aire, TYPE 475.
   Non-metallic ductwork shall conform to NFPA 90-A and SMACNA Class 1 rating.
3. Air duct insulation and linings shall comply with flame spread less than or equal to 25, smoke generation less than or equal to 50.
4. Supply air diffusers shall be 675 CFM max. 15"x15" neck, steel, rigid 1" fiberglass or flexduct ductwork specifically designed to provide air thermal cooling systems. 24"x8"x1" Micro-Aire type #475 Owens-Corning, Knauf, Certainteed, or equal and 90- B: UL #131 test, class 1 rating with "SMACNA".
5. Registers and diffusers: Provide three (Min) 4-way throw air diffusers as manufactured Carnes, Titus, Hart and Cooley, Metalaire, Shoemaker, Barber-Coleman or Krueger commercial grade grills and registers
6. Air conditioning controls.
   Thermostat: Provide electronic programmable thermostat. Thermostat shall have the following functions.
   A.) 5 and 2 weekday/weekend programming with 4 separate time/temperature setting for 24-hour period.
   B.) Key board lockout switch.
   C.) Programmable display.
   D.) 2-hour override minimum.
   E.) Status Indicated Led's.
   F.) Battery back-up.
   Provide locking clear thermostat cover with thermostat cover with access hole for program override. White Rodgers IF92.
7. Thermal insulation
   A.) Roof Insulation: R-19 Unfaced.
   B.) Walls Insulation: R-11 Kraft Faced.
   C.) Floors Insulation: R-11 Kraft Faced.
   Flame spread and smoke development shall conform to California Building Code sec. 707.
8. Factory-made air ducts. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of U.M.C. Standard No. 6-1. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other suitable identification indicating compliancewith U.M.C. Standard No. 6-1 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing and the requirements of UMC STD. 6-1.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL 6 2 1 7
DATE 8-20-97

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL PC 328
DATE 4/9/97

3" STANDING SEAM ROOF

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

MECHANICAL PLAN & NOTES

DATE:	4-8-97
SCALE:	NONE
DRAWN BY:	R.S.
CHECKED BY:	
CHECKED BY:	
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
△			△		
△			△		
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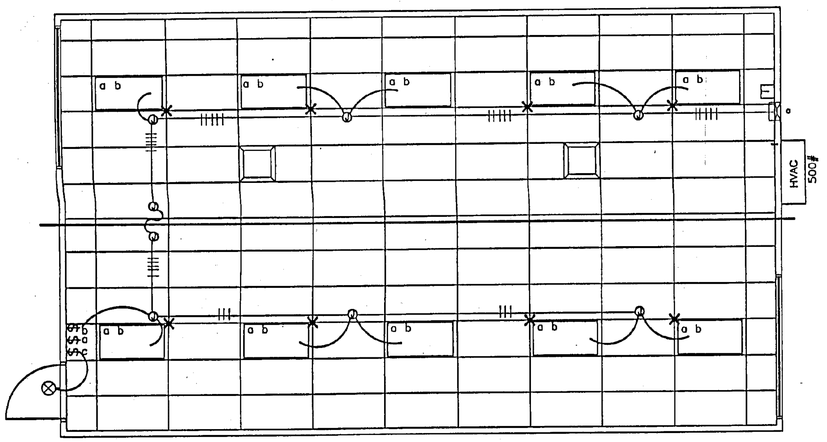
PROJECT No.

SHEET No. M 1



1 / E1 LIGHT FIXTURE PLAN
1/4" = 1'-0"

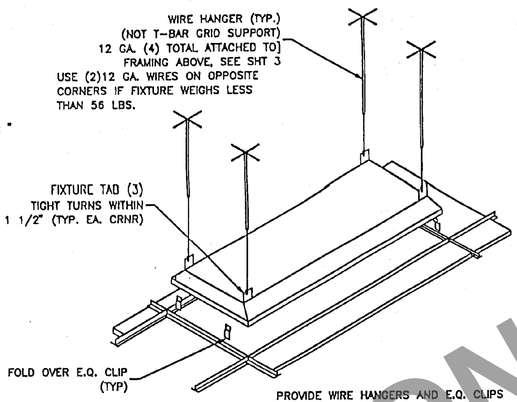
The H.V.A.C. unit feeder circuit – panel circuit breaker, feeder wire, unit disconnect and fuses (where used) – is to be coordinated with the name plate data at the time ofmanufacture. H.V.A.C. units having KVA ratings larger than that indicated on this panel schedule will not be allowed to be installed on this building. If 60 degrees C. wire is to be used in this installation, calculations demonstrating ampacity be provided on the drawing.

STANDARD ELECTRICAL SYMBOLS

- FLUORESCENT LIGHTING FIXTURE – SURFACE MOUNTED.
- FLUORESCENT LIGHTING FIXTURE – RESCESSED.
- FLUORESCENT LIGHTING FIXTURE – WALL MOUNTED (EXTERIOR)
- INCANDESCENT LIGHTING FIXTURE – WALL MOUNTED (INTERIOR).
- DUPLEX WALL CONVENIENCE OUTLETS +18".
- SINGLE POLE LIGHT SWITHCES +48", HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- LECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"X1 ",#22 4"X2 "
- WALL CLOCK OUTLET WITH POWER OUTLET +84".
- SWITCH SUBSCRIPTS – a=DEVICE CONTROLLED.
- 15 AMP DUPLEX RECEPTACLE +18", HOSPITAL GRADE.
- JUNCTION BOX – SIZE AND TYPE AS REQUIRED.
- PANELBOARD – SEE SCHEDULE.
- TERMINAL CABINET – SIZE AND TYPE AS NOTED.
- CONDUIT CONCEALED IN CEILING OR WALL.
- CONDUIT CONCEALED BELOW FLOOR OR GRADE.
- HOMERUN TO RESPECTIVE PANEL TO TERMINAL.
- INDICATES 1#14 (GREEN) GROUND WIRE, OTHER SIZES AS INDICATED.

NOTE: BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#14 WIRE CIRCUIT, FOR MORE THAN 2#14 WIRES AS FOLLOWS, -|||- 3#14, -|||- 4#14 ETC. FOR OTHER SIZES AS FOLLOWS, -|||-10 3#10, -|||-1 4#8 ETC.

- (A) FIXTURE IDENTIFICATION – LETTER INDICATES TYPE.
- N.I.E.S. ABBREV. FOR NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPEC'S.
- MT ABBREV. FOR EMPTY CONDUIT WITH POLY PULL CORD.
- FUSED DISCONNECT SWITCH SIZE AS REQUIRED. PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT SUPPLIER.
- [W.E.F.] WALL MOUNTED EXHAUST FAN N.I.E.S. CONNECT AS REQUIRED.
- 50 AMP 250 VOLT RANGE RECEPTACLE.
- (F) FIRE ALARM STATION – OUTLET ONLY, 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"CENTERLINE
- FIRE ALARM HORN – OULET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.
- FIRE ALARM VISUAL ALARM– OUTLET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER BOTTOM +80". A.F.F. BUT NO GREATER THAN +96". IF CEILING MOUNTED PER NFPA72 TABLE 6-4.4.1(b).
- SPEAKER– OUTLET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
- INTERCOM TELEPHONE– OUTLET ONLY– 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"
- (M) FIRE ALARM MINI HORN – OULET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.



SUPPORT DETAIL

PROVIDE WIRE HANGERS AND E.Q. CLIPS AS REQUIRED BY CALIFORNIA SEISMIC REGULATIONS CBC 2501.A.5 & I.R. 47-4

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
	2'X4' FLOURESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS. ENERGY SAVING BALLAST. (4)35 WATT TUBES, WT. 27 LBS.	156 W	CRESCENT 24TF440DLA
	FLOURESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE. .125 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & "POSIGRIP" STAINLESS STEEL SCREWS.	(2) 7W TT 2700 K	KENALL 3714 OR LITHONIA 202 2/7PL LP
	INCANDESCENT WALL MOUNTED	150W	PROGRESS P3011x30"

SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES.
FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 760 &CAL FIRE CODE ART. 10.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

GENERAL NOTES

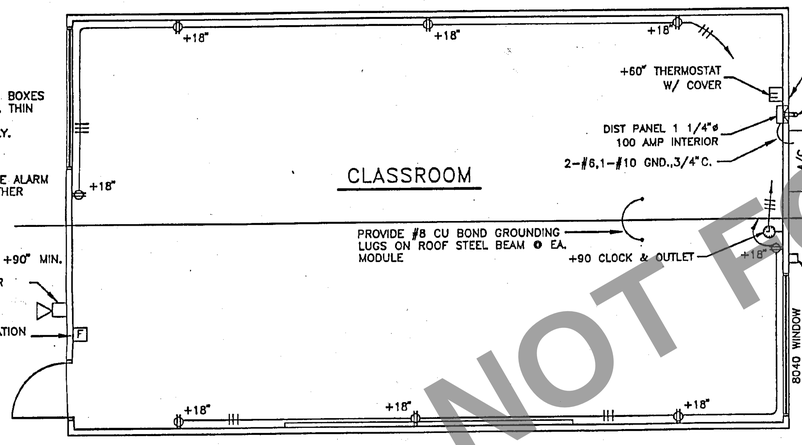
1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC 250-94 & 95.
2. ALLOW FOR 12" MOVEMENT IN ANY DIRECTION IF PAD FOUNDATION IS USED.
3. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
4. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINATES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

ELECTRICAL

1. Electrical service drop and connections supplied by others.
2. Manufacturer to provide stub-out from back of electrical panel through the exterior wall for receiving either underground or overhead service & fitting for grounding cable.
3. Electrical panel board shall be recess mounted inside the building. Sized to accommodate all connected loads including spaces as shown. Overcurrent protective devices in the panel boards have adequate short circuit interrupting capacity. All buses including bus shall be copper or aluminum.
4. 2x4 Flouresent fixtures shall be steel frame, lens shall be hinged and locked in place by two locking devices. The lens diffusers shall be KHS, Inc. #KSH-12, Corolite, Inc. #C-12 or Plaskolite, Inc. #PL21A. Minimum lens thickness shall be .125 inch.
5. Flouresent ballast shall be energy saver while maintaining full light output, class "P" equipped with thermal protectors, guaranteed against failure for (2) years and be replaced from inside the fixture.
6. Clock – 12" dial clock on clock outlet.
   A) Clock shall be General Electric model 2912 129V 60 cycle
   B) Clock outlet shall be Bryant #2828 or equal with seperable hanging clip & app'd recept.



STUB OUT FITTING AT PANEL FOR GROUNDING BLDG. FRAME & PANEL W/ #8 WIRE SEE GROUNDING DETAIL PER I.R. 8-1

STUB OUT FITTING FOR UNDERGROUND OR OVERHEAD SERVICE BY OTHERS SEE ELECTRICAL NOTE #2.

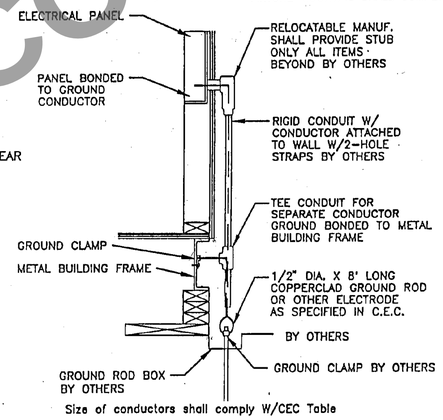
WALL MOUNTED HEAT PUMP UNIT SEE MECHANICAL (240V,1PH.) W/ DISCONNECT BREAKER MOUNTED IN UNIT.

LOCATION FOR F/A 2 GANG J-BOX @ 18" ABOVE FIN. FLR.

2 / E1 ELECTRICAL PLAN
1/4" = 1'-0"

FIRE ALARM
Junction boxes – Galvanized sheet metal, square or rectangular with blank covers. Locate one box at rear of building near main electrical panel at +18- above finish floor for future connection.
Covers – Install gasketed, metal, waterproof, finish covers at exterior locations. Install finish covers at interior locations.

If testing results determine fire alarm audibility does not meet 15db over ambient noise levels, additional fire alarm signaling devices may be required by the enforcing onency



Size of conductors shall comply W/CEC Table

Bond separate conductors from ground rod to electrical panel & metal building from. In addition to the detail shown above, bond the electrical ground to metal water pipe embedded @ least 10' into the soil if available.

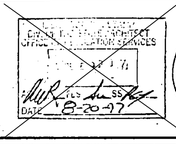
Electrical bond modules together W/#8 CU @ modline. By manufacturer. Check resistance to ground. If resistance exceeds 25 OHMS, install additional ground rods as required. Grounding detail per I-R 8-1.

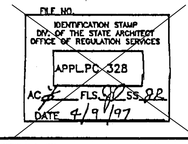
A / E1 BUILDING GROUND DETAIL
N.T.S.

VOLTS: 120/240 SINGLE PHASE			PANEL: A						FEED: EXTERIOR LB				
MAIN: 100 AMP MAIN BKR.			LOCATION: INTERIOR						MOUNTING: FLUSH				
LOAD	WATTS A	WATTS B	BRK. AMP	CTR	PH	A	B	CTR	BRK. AMP	WATTS A	WATTS B	LOAD
LIGHTS, FLUORESCENT	960		15	1	1			2	2 50	4476		A/C HVAC UNIT
LIGHTS, FLUORESCENT		960	15	1	3			4	2 50		4476	
EXTERIOR LIGHT & CLOCK	100		15	1	5			6				SPACE
DUPLEX RECEPT.		720	15	1	7			8				
DUPLEX RECEPT.	720		15	1	9			10				
SPACE					11			12				
					13			14				
					15			16				
PHASE WATTAGE	1880	1680			17			18		4476	4476	PHASE WATTAGE
TOTAL WATTS "A" LEG: 6556			TOTAL WATTS A+B=2743							TOTAL WATTS "B" LEG 6156		
TOTAL WATTS: 15455			65 AMPS			120/240V		SINGLE PHASE				100AMP BUS.

FEEDERS: TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

3 / E1 ELECTRICAL DISTRIBUTION PLAN
1/4" = 1'-0"





24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

ELECTRICAL PLAN & NOTES

DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

PROJECT No.

SHEET No. E 1

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: **School Name:** **School District:**

DSA File Number: **Increment Number:** **Date Created:**

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Underlined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	**GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	**LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

	CS. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect installation of post-installed anchors	**See Notes**	**SI***	**1917A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8.& 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	**b.** Test post-installed anchors.	**Test**	**LOR**	**1910A.5.** (See Appendix (end of this form) for exemptions.)

	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	**Periodic**	*	**Table 1705A.2.1 Item 3a–3c.** 2202A.1; AISI S100-20 Section A3.1 & A1.2. AISI S240-20 Section A3 & A5. AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	**b.** Test unidentified materials	**Test**	**LOR**	**2202A.1.**
☑	**c.** Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
☑	**d.** Verify and document steel fabrication per DSA-approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).

	S/A3. WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	**Periodic**	**SI**	**1705A.2.5, Table 1705A.2.1 Items 4 & 5**. AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel. DSA IR 17-3.
☑	**b.** Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
☑	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.

	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4**; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6**; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.

"CONSTRUCTION OF" AND "STOCKPILE OF" EXAMPLE DSA 103 FORM (DSA 103 FORM NOT REQUIRED FOR RELOCATION OF CERTIFIED RAMP & LANDING).

THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

TMP HCD 2013 - STEEL SHEET 1A.DWG

TMP SERVICES

2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213-3997

PC
ACCESSIBLE RAMPS/ LANDINGS/STAIRS
(STEEL + OPTIONAL ALUM. DECK)

STATE OF CALIFPRNIA - 2021 IBC/2022 CBC

NOTES:

LOADS:

1. RAMP LIVE LOAD = 100 PSF
2. NO SNOW LOADING
3. NO FLOOD LOADING
4. WIND:
   WIND SPEED = 110 MPH
   RISK CATEGORY = II & III
   EXPOSURE = C
   K_{ZT}= 1.0
   WIND DESIGN PER ASCE 7-16 CHAPTER 29
5. SEISMIC:
   RISK CATEGORY = II
   I_e = 1.0
   S_S = 2.55
   S_1 = 1.0
   SITE CLASS = D DEFAULT
   S_{DS}= 1.428
   C_S = 1.14 (ASCE 7-16 EQUATION 15.4-2)
   R = 1.25 (ASCE 7-16 TABLE 15.4-1)
5. SEISMIC:
   RISK CATEGORY = III
   I_e = 1.25
   S_S = 1.43
   S_1 = 1.0
   SITE CLASS = D DEFAULT
   S_{DS}= 1.14
   C_S = 1.14 (ASCE 7-16 EQUATION 15.4-2)
   R = 1.25 (ASCE 7-16 TABLE 15.4-1)
6. ALLOWABLE SOIL BEARING = 1000 PSF

CODES: (TITLE 24 CODES)

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)

2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2021 EDITION INTERNATIONAL BUILDING CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2021 EDITION INTERNATIONAL FIRE CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN CODE (CGC), (PART 9, TITLE 24, CCR)

2022 CALIFORNIA REFERENCED CODE, (PART 12, TITLE 24, CCR)

2022 CODE SECTIONS FOR APPLICABLE STANDARDS
2022 CBC, CHAPTER 35

DSA APPROVALS

TABLE OF CONTENTS

TAVARES ASSOCIATES
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11590 W. BERNARDO COURT, SUITE 105
SAN DIEGO, CA 92128
PHONE:(858) 444-3344
WWW.RSTAVARES.COM

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCO
No. S3380
exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA

02/12/24

DATE SIGNED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122262 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/14/2024

COVER SHEET (A)

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:

STATE OF CALIFORNIA -2022 CBC
PC

DRAWN

CHECKED

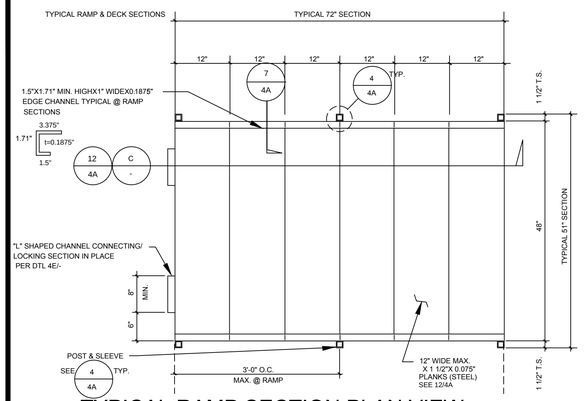
DATE
02 AUG 2023

SCALE

JOB NO.

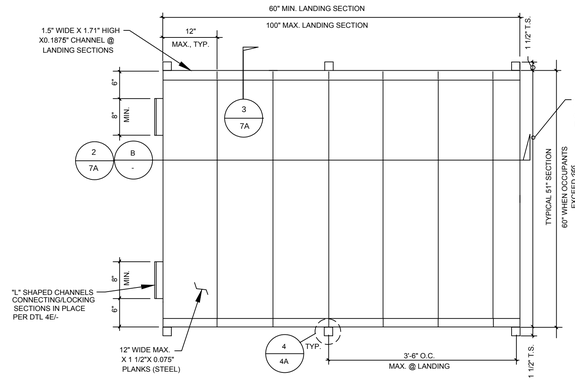
1A

9 OF 16 SHEETS



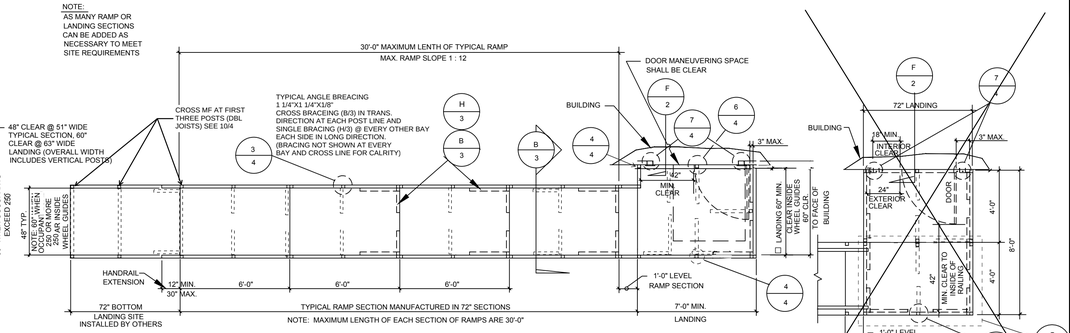
TYPICAL RAMP SECTION PLAN VIEW

A



TYPICAL LANDING

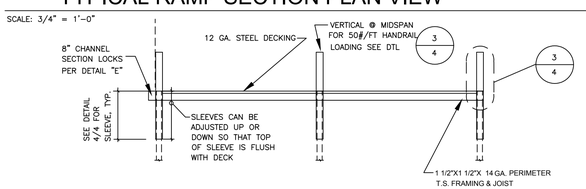
G



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT

OPTIONAL LANDING

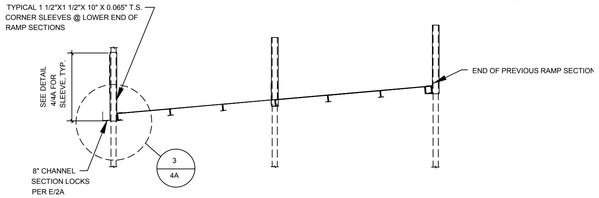
SCALE: 3/4" = 1'-0"



SIDE/END VIEW OF LEVEL DECK SECTION

B

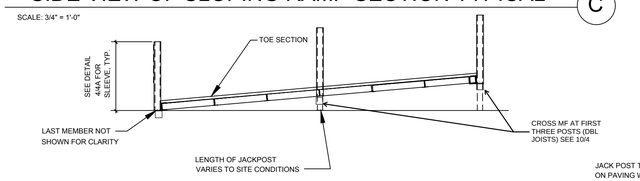
SCALE: 3/4" = 1'-0"



SIDE VIEW OF SLOPING RAMP SECTION TYPICAL

C

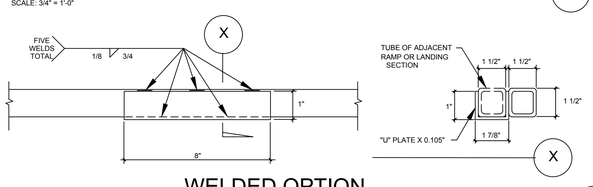
SCALE: 3/4" = 1'-0"



TOE SECTION

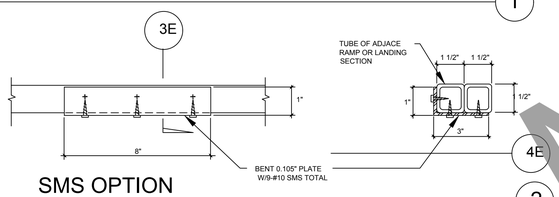
D

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



WELDED OPTION

1

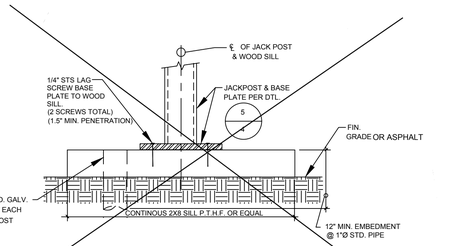


SMS OPTION

2

8" CHANNEL SECTION

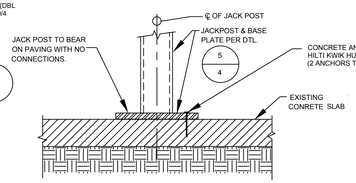
E



ALTERNATE WOOD SILLS

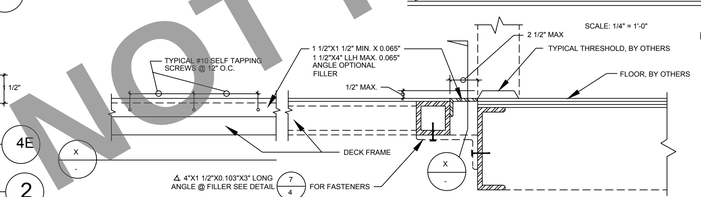
@JACK POST TO GRADE OR ASPHALT WHERE CONCRETE DOES NOT OCCUR

J



JACK POST TO PAVING

JA

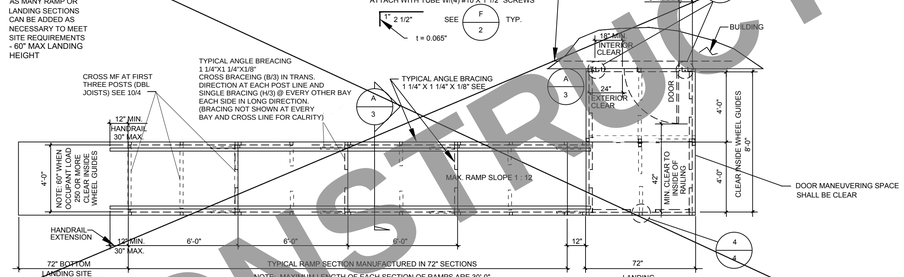


FILLER DETAIL

F

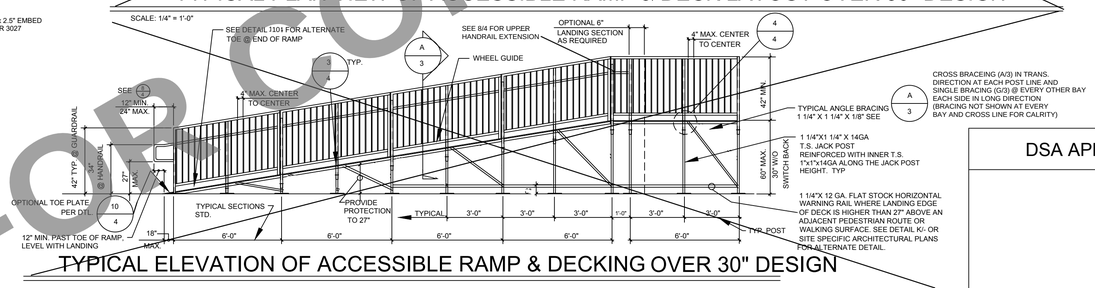
SCALE: 1/4" = 1'-0"

NOTE: AS MANY RAMP OR LANDING SECTIONS CAN BE ADDED AS NECESSARY TO MEET SITE REQUIREMENTS - 60" MAX LANDING HEIGHT



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT OVER 30" DESIGN

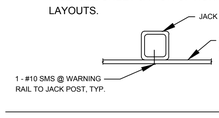
SCALE: 1/4" = 1'-0"



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING OVER 30" DESIGN

NOTE: 1. SEE PLAN SHEET 3A FOR HANDRAIL/GUARDRAIL SIZES.

2. PROVIDE INTERMEDIATE LANDINGS AND SWITCH BACK OR MULTIPLE RAMP SECTIONS AS REQUIRED WHERE ELEVATION DIFFERENCE AT RAMP EXCEEDS 30" MAX. RISE, SEE SHEET 5A FOR OPTIONAL RAMP/LANDING LAYOUTS.



K

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRANCIS No. 53380 exp. 03/31/24 STRUCTURAL STATE OF CALIFORNIA
02/12/24

DATE SIGNED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122262 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/14/2024

ACCESSIBLE RAMP ELEVATIONS & DETAILS (A)

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:

STATE OF CALIFORNIA
-2022 CBC
PC

DSA APPROVALS

DRAWN
CHECKED
DATE 02 AUG 2023
SCALE
JOB NO.

2A

10 OF 16 SHEETS

RS TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W. BERNARDO COURT, SUITE 105
SAN DIEGO, CA 92128
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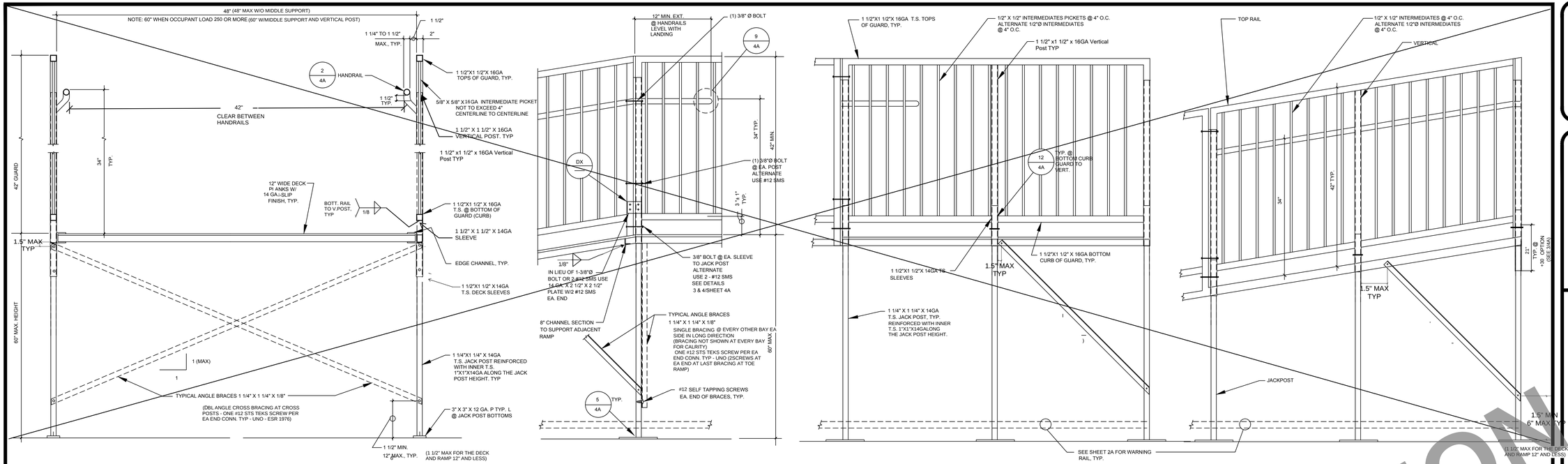
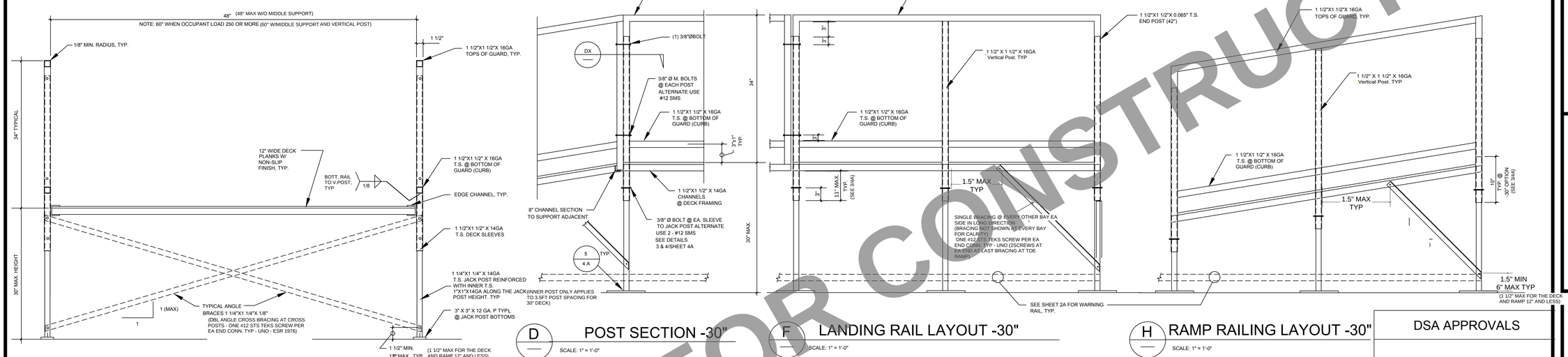


A — TYPICAL CROSS SECTIONS +30"
SCALE: 1" = 1'-0"

C — POST SECTION +30"
SCALE: 1" = 1'-0"

E — LANDING RAIL LAYOUT +30"
SCALE: 1" = 1'-0"

G — RAMP RAILING LAYOUT +30"
SCALE: 1" = 1'-0"



B — TYPICAL CROSS SECTIONS -30"
SCALE: 1" = 1'-0"

D — POST SECTION -30"
SCALE: 1" = 1'-0"

F — LANDING RAIL LAYOUT -30"
SCALE: 1" = 1'-0"

H — RAMP RAILING LAYOUT -30"
SCALE: 1" = 1'-0"

BOTTOM RAIL CONNECTION — DX
NO SCALE

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCISCO — No. S3380 — exp. 03/31/24 — STRUCTURAL — STATE OF CALIFORNIA
02/12/24

DATE SIGNED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122262 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 02/14/2024

ACCESSIBLE RAMP
DETAILS & NOTES (A)

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:

STATE OF CALIFORNIA
-2022 CBC
PC

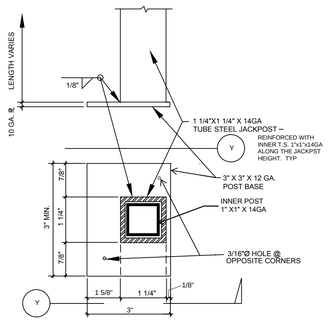
DSA APPROVALS

DRAWN
CHECKED
DATE
02 AUG 2023
SCALE
JOB NO.

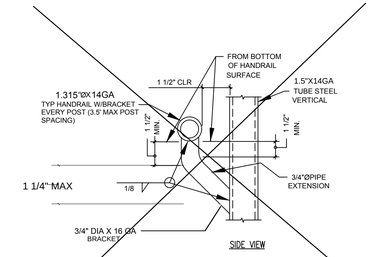
3A

11 OF 16 SHEETS

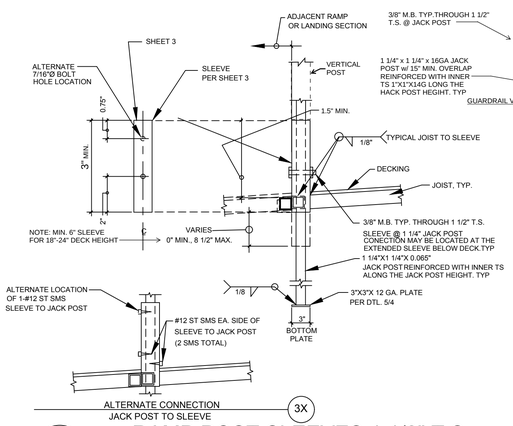
RS TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W. BERNARDO COURT, SUITE 105
SAN DIEGO, CA 92128
PHONE(858) 444-3344
WWW.RSTAVARES.COM

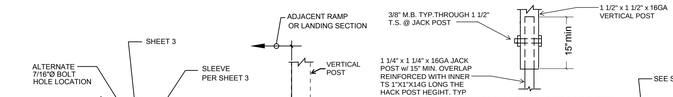


POST BASE AT ADJACENT POSTS

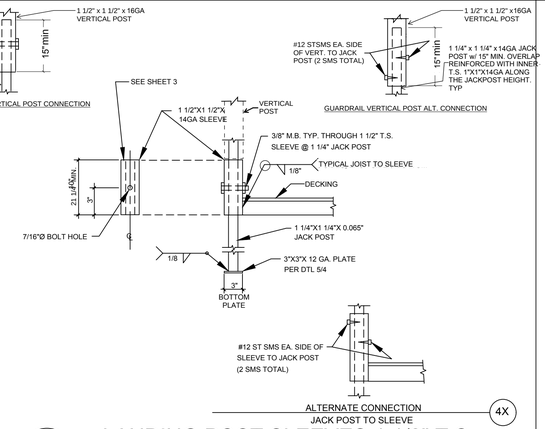


2/– TYPICAL HANDRAIL ARMS

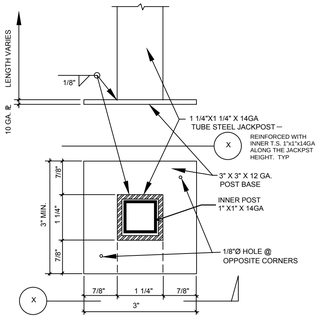




3/4 RAMP POST SLEEVES 1 1/2" T.S.

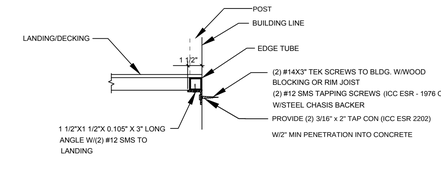


4/4 LANDING POST SLEEVES 1 1/2" T.S.



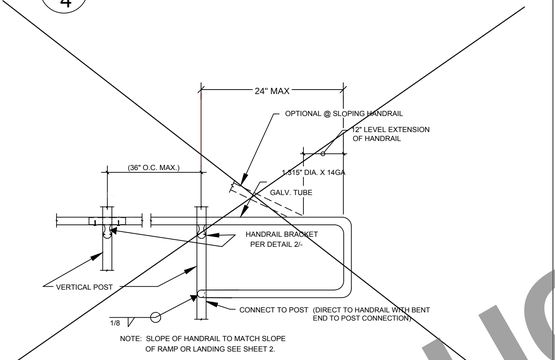
5/– POST BASE

6/– DETAIL NOT USED

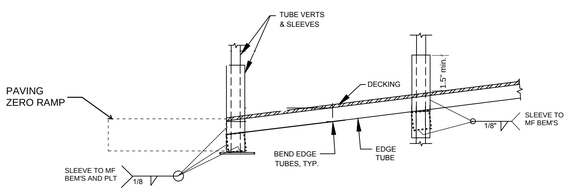


7/– LANDING TO BUILDING

NOTE: DECK SECTIONS ARE FREE STANDING FOR VERTICAL LOADS.

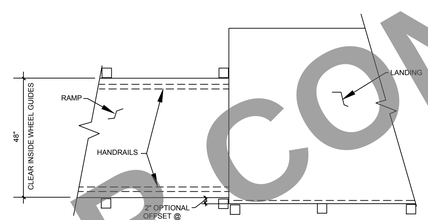


8/– CONNECTION @ HANDRAIL EXTENSION DETAIL

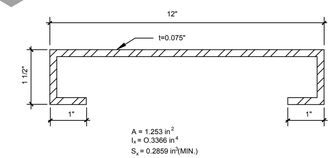


10/– TOE @ END OF RAMP

NO SCALE



11/– NO SCALE



12/– STEEL PLANK

NO SCALE

NOTES:

CODES:
2022 CALIFORNIA BUILDING CODE (CBC)

DESIGN LOADS:
LIVE LOAD: 100 PSF
WIND LOAD: SEE SHEET 1A
SEISMIC: SEE SHEET 1A
HANDRAIL & GUARD RAIL LOADS:
50#/FT
200# POINT LOAD

MATERIAL SPECIFICATIONS:
STEEL: ALL PLANKS, ANGLE, CHANNELS, ETC. SHALL BE ASTM A1011SS GRADE 40 (Fy = 40 KS1, MIN.)
ALL TUBE STEEL ASTM A572 GRADE 65 (Fy = 65KSI) OR SIMILAR/BETTER
ALL STEEL TO BE COATED WITH A RUST INHIBITIVE COATING
ALL ROUND TUBE STEEL TO BE ASTM A500 ROUND GRADE C (FY=46KSI) OR SIMILAR/BETTER
BOLTS: ASTM A307 COMMON BOLTS HOT DIPPED GALVANIZED W/ STAINLESS STEEL WASHERS
PLYWOOD OPTION: APA RATED STRUCT I EXTERIOR PLYWOOD
WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY D-1.3-2008 FOR SHEET STEEL.
ELECTRODES SHALL BE E70XX.

GENERAL NOTES:
1) RAMPS HAVING SLOPES STEEPER THAN 1 VERTICAL TO 20 HORIZONTAL SHALL HAVE LANDINGS AT TOP AND BOTTOM AND AT LEAST ONE INTERMEDIATE LANDING SHALL BE PROVIDED FOR EACH 30" OF RISE, PER CBC 11B-405.7.

2) LOCATION OF LANDINGS.
LANDINGS SHALL BE PROVIDED AT TOP AND BOTTOM OF EACH RAMP.
INTERMEDIATE LANDINGS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30 INCHES OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION . LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP.

NOTE: EXAMPLES OF RAMP DIMENSIONS ARE:

SLOPE	MAX. RISE (INCHES)	MAX. HORIZONTAL PROJECTION
1:12	30	30'-0"
1:16	30	40'-0"
1:20	30	50'-0"
1:15	30	37'-6"

2. SIZE OF TOP LANDINGS. TOP LANDINGS SHALL NOT BE LESS THAN 60 INCHES WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60 INCHES IN THE DIRECTION OF RAMP RUN, PER CBC 11B-405.7.2 AND .3.

3) DOORS IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPENED, CBC 11B-405.7.5.

4) RAMPS SHALL BE CONSTRUCTED AS REQUIRED FOR STAIRWAYS.

5) THE SURFACE OF RAMPS SHALL BE ROUGHED OR SHALL BE OF SLIP-RESISTANT MATERIAL, TYP. FOR LANDINGS & STAIRS.

6) RAMPS REQUIREMENTS SHALL BE PER CBC 11B-405.

7) RAMPS AND STAIRWAYS USED AS EXIT SHALL CONFORM TO CBC SEC. 1009 SEC. 1010, CHAPTER 11B AND 11B-405.7.

8) HANDRAILS AND GUARDRAILS SHALL CONFORM TO CBC 11B-405.8 (RAMP), AND 11B-504 (STAIRS).

9) RAMPS SHALL CONFORM TO CBC 11B-405.

10) STRIKE EDGE EXTENSION THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMPS AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMPS.

11) LANDING WIDTH. AT BOTTOM AND INTERMEDIATE LANDINGS, THE WIDTH SHALL BE AT LEAST THE SAME AS REQUIRED FOR RAMPS, CBC 11B-405.7.4.

12) THE WIDTH OF RAMPS SHALL BE AS REQUIRED PER STAIRWAYS AND EXITS, CBC 11B-405.5.

13) SLOPE RAMPS AND LANDINGS AS REQUIRED TO PREVENT ACCUMULATION OF WATER ON WALKING SURFACES.

14) ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS TITLE 24, CCR.

15) SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:
MATERIAL VERIFICATION
DSA SPECIAL INSPECTOR: CLASS 4
(ON SITE)

DSA APPROVALS

TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W. Bernardo Court, Suite 105
San Diego, CA 92128
PHONE:(858) 444-3344
www.rstavares.com

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER RANNY S. FRANK No. S3380 exp. 03/31/24 STRUCTURAL STATE OF CALIFORNIA
02/12/24

DATE SIGNED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122262 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☒ CG ☐
DATE: 02/14/2024

DETAILS AND NOTES (A)

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

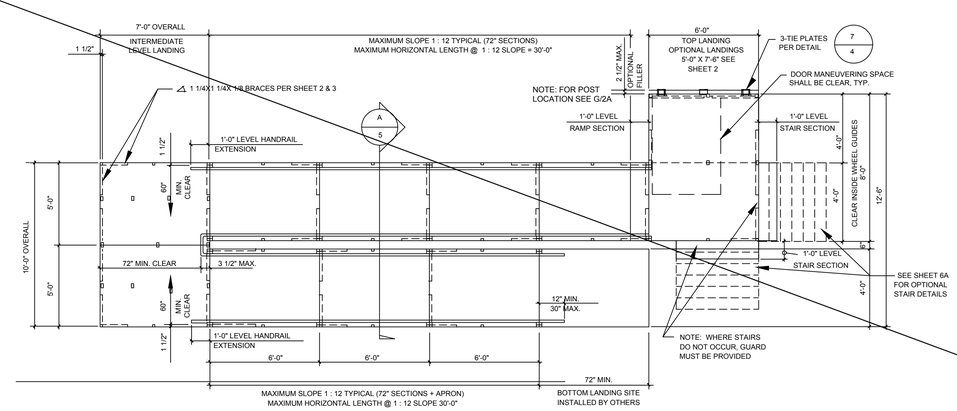
SITE:

STATE OF CALIFORNIA -2022 CBC
PC

DRAWN
CHECKED
DATE 02 AUG 2023
SCALE
JOB NO.

4A
12 OF 16 SHEETS

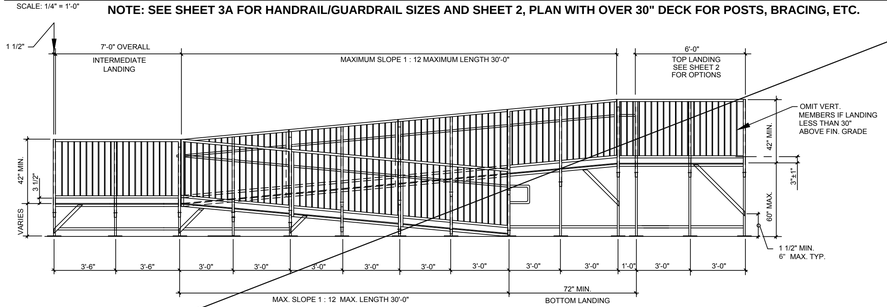
TMP HSD 2019 STEEL SHEET 4A.DWG



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS

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

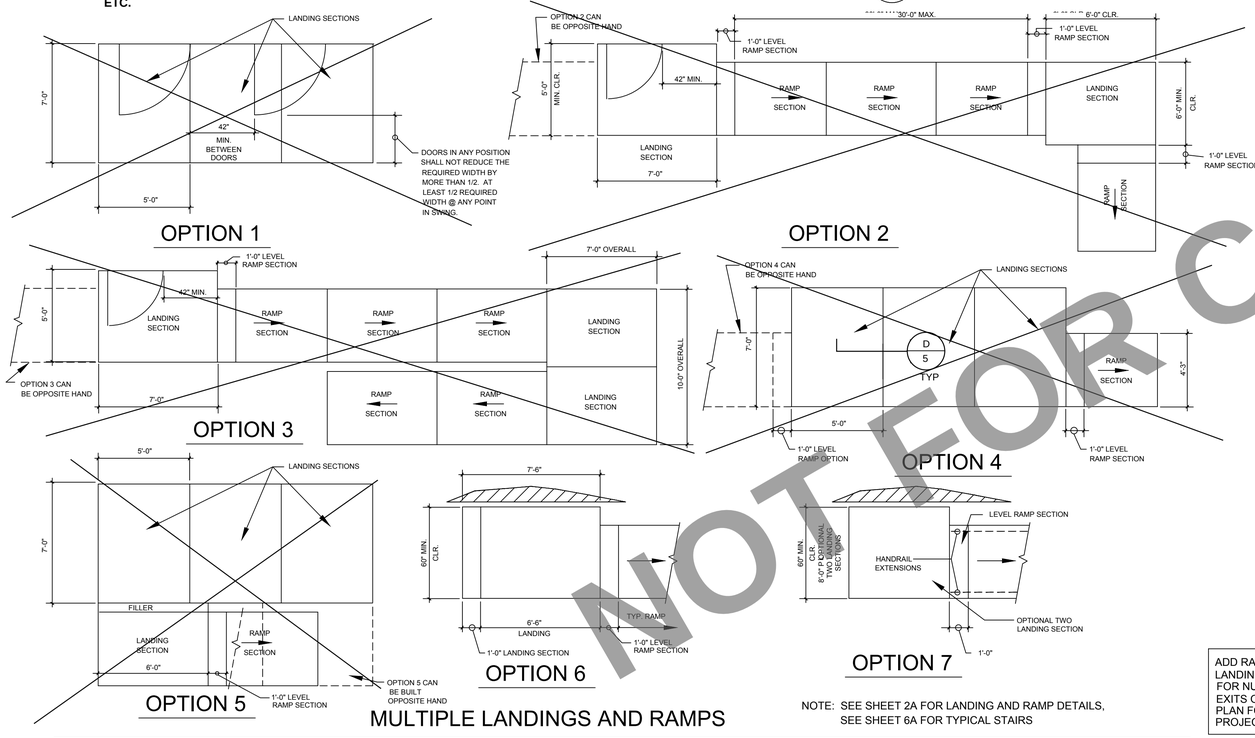
NOTE: SEE SHEET 3A FOR HANDRAIL/GUARDRAIL SIZES AND SHEET 2, PLAN WITH OVER 30" DECK FOR POSTS, BRACING, ETC.



TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP

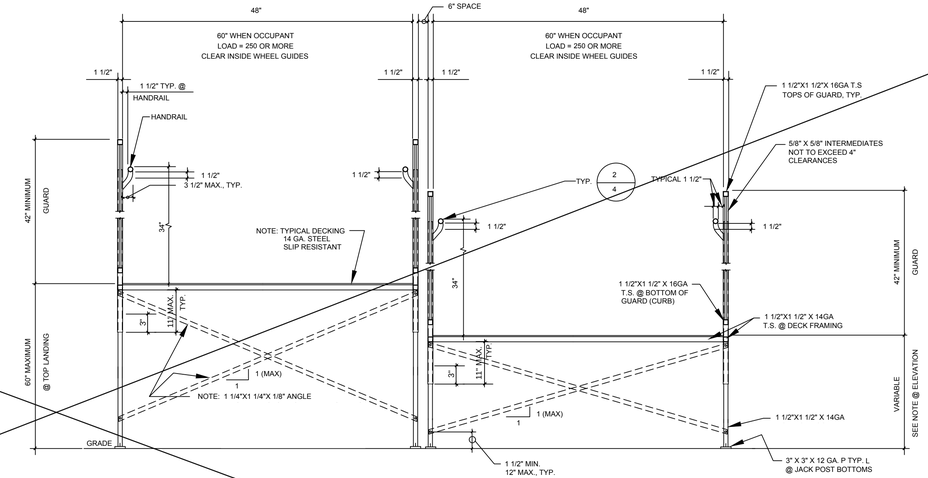
SCALE: 1/4" = 1'-0"

NOTE: SEE SHEET 3A FOR HANDRAIL/GUARDRAIL SIZES AND SHEET 2, ELEVATION WITH OVER 30" DECK FOR POSTS, BRACING, ETC.



MULTIPLE LANDINGS AND RAMPS

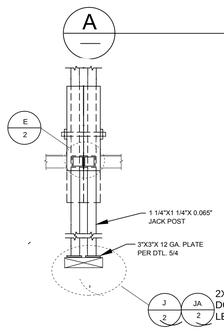
NOTE: SEE SHEET 2A FOR LANDING AND RAMP DETAILS, SEE SHEET 6A FOR TYPICAL STAIRS



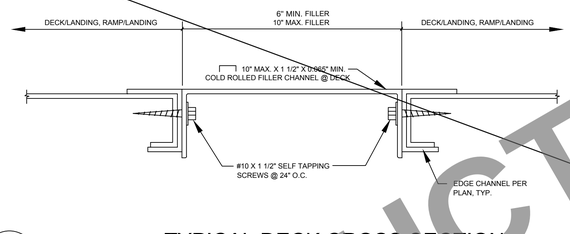
TYPICAL CROSS SECTIONS

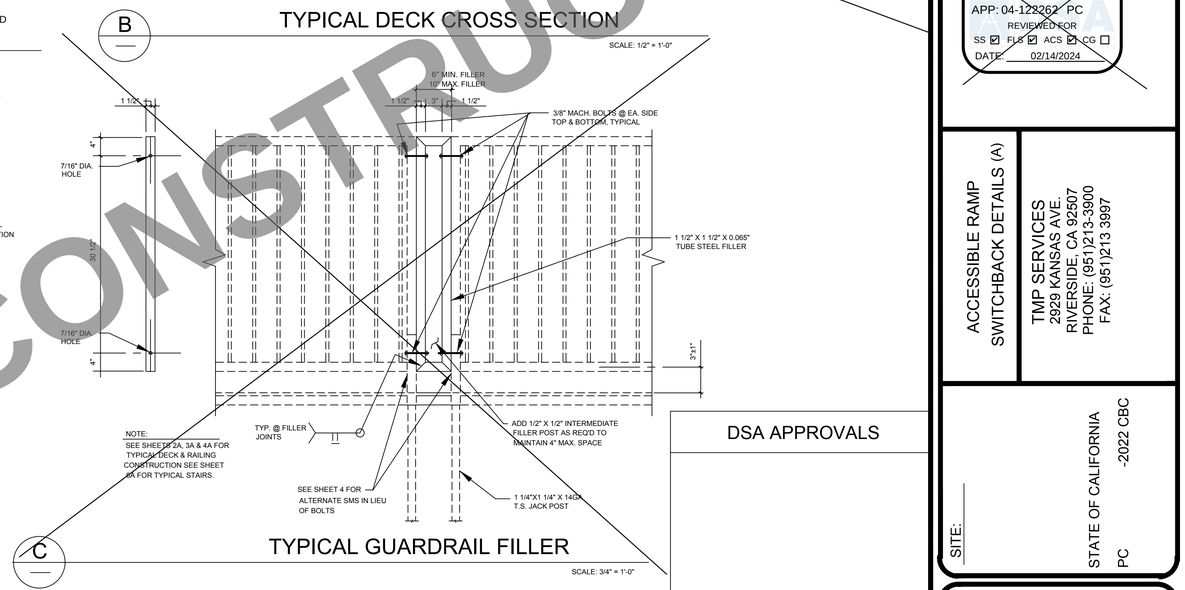
NOTE: SEE SHEET 3A, ELEVATION WITH OVER 30" DECK, FOR HANDRAIL/GUARDRAIL, POSTS, BRACING, ETC.

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



D ADJACENT POSTS AT INERIOR FOOTING





ADD RAMPS, STAIRS, LANDINGS AS REQUIRED FOR NUMBER OF EXITS ON SITE PLAN FOR SPECIFIC PROJECTS.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCO — No. S3380 — exp. 03/31/24 — STRUCTURAL — STATE OF CALIFORNIA

02/12/24

DATE SIGNED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122262 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/14/2024

ACCESSIBLE RAMP SWITCHBACK DETAILS (A)

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

DSA APPROVALS

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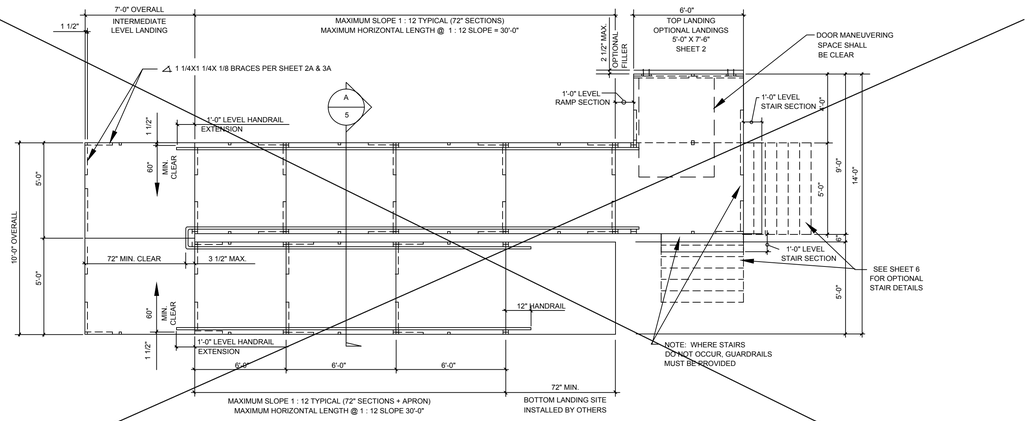
JOB NO.

5A

13 OF 16 SHEETS

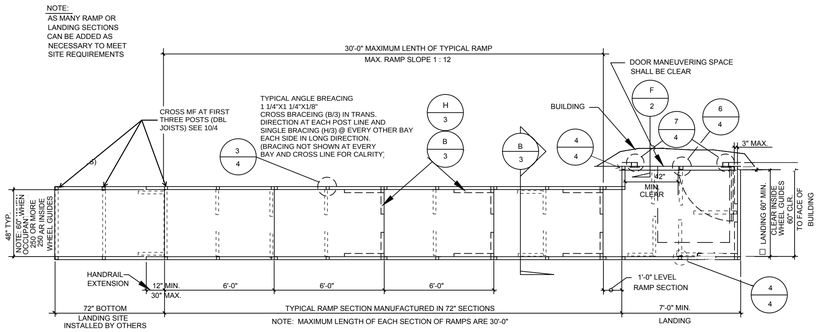
TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W. BERNARDO COURT, SUITE 105
SAN DIEGO, CA 92128
PHONE:(858) 444-3344
WWW.RSTAVARES.COM

TMP HCD 2019 STEEL SHEET 5A.DWG



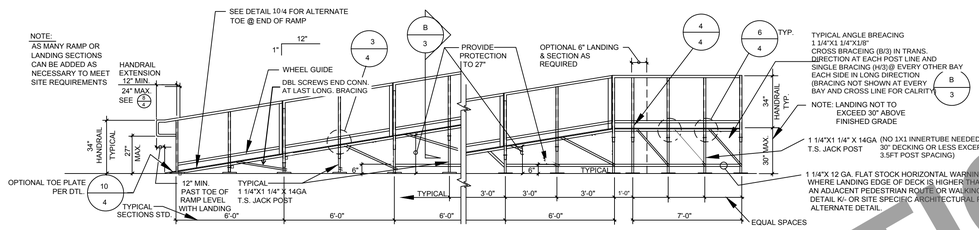
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS

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



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT

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



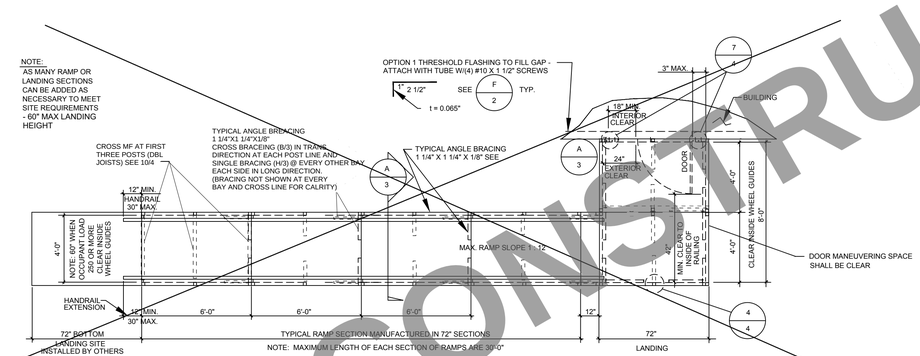
TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS

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

NOTE: SEE SHEET 3A FOR HANDRAIL SIZES

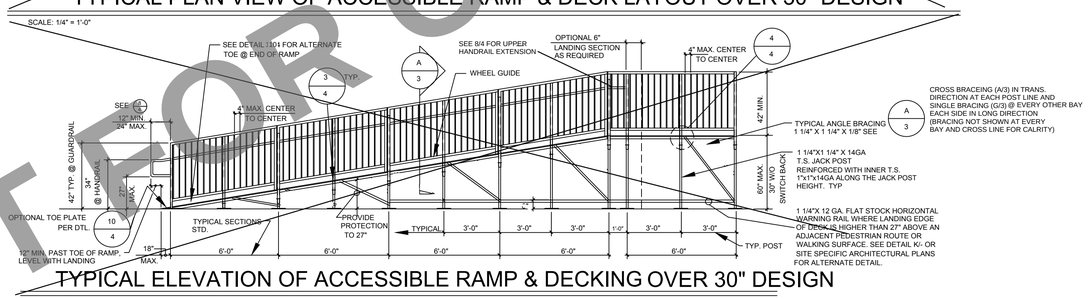
TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP W/ 5'-0" WIDE RAMPS

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



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT OVER 30" DESIGN

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



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING OVER 30" DESIGN

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

NOTE: 1. SEE PLAN SHEET 3A FOR HANDRAIL/GUARDRAIL SIZES.

2. PROVIDE INTERMEDIATE LANDINGS AND SWITCH BACK OR MULTIPLE RAMP SECTIONS AS REQUIRED WHERE ELEVATION DIFFERENCE AT RAMP EXCEEDS 30" MAX. RISE, SEE SHEET 5A FOR OPTIONAL RAMP/LANDING LAYOUTS.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCO
No. 53380
exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA
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ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS(A)

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16 OF 16 SHEETS

TMP DSA RAMP & LANDING STEEL SHEET 8A.DWG