FIRE TRAINING FACILITY

791 S. WALNUT, TURLOCK, CA

CITY OF TURLOCK ENGINEERING DIVISION

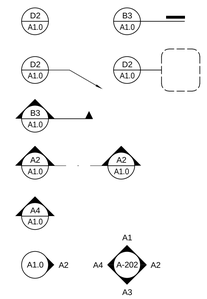
CITY OF TURLOCK

156 S. BROADWAY, SUITE 150, TURLOCK, CA

PROJECT STATUS: CONSTRUCTION DOCUMENTS

ISSUE DATE: 9/16/2016

ARCHITECTURAL SYMBOLS LEGEND



DETAIL INDICATOR - REFERENCE & DETAIL INDICATOR - SECTION

DETAIL INDICATOR - ITEM & DETAIL INDICATOR - AREA

SECTION INDICATOR - PARTIAL BUILDING/WALL

SECTION INDICATOR - BUILDING

ELEVATION INDICATOR - EXTERIOR

ELEVATION INDICATOR - INTERIOR, SINGLE & MULTIPLE VIEW

MATCH LINE INDICATOR

ROOM IDENTIFIER WITH ROOM NAME & NUMBER

REVISION INDICATOR & REVISION CLOUD

ELEVATION INDICATOR - LEVEL & SPOT

REFERENCE GRID WITH REFERENCE GRID LINES

WINDOW OR LOUVER IDENTIFIER

DEMO KEYNOTE INDICATOR

KEYNOTE INDICATOR

FURNITURE, FIXTURE & EQUIPMENT INDICATOR

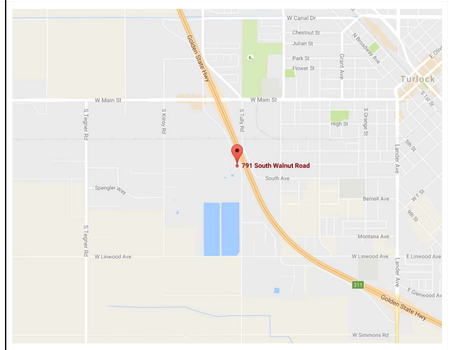
DOOR TAG IDENTIFIER

PLAN NORTH & TRUE NORTH INDICATOR

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
AGG	AGGREGATE
A/C	AIR CONDITIONER
AL	ALUMINUM
AB	ANCHOR BOLT
@	AT
ABV	ABOVE
AFF	ABOVE FINISH FLOOR
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
CB	CATCH BASIN
CFCI	CONTRACTOR FURNISHED & INSTALLED
CG	CORNER GUARD
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS OR CONTINUE
DIAG	DIAGONAL
DS	DOWN SPOUT
DWGS	DRAWINGS
"	DIAMETER
ELECT	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
(E)	EXISTING
EXH	EXHAUST
EXT	EXTERIOR
FOS	FACE OF STUD
FLUOR	FLUORESCENT
FIN	FINISH
FLR	FLOOR
FD	FLOOR DRAIN
FTG	FOOTING
FND	FOUNTATION
GA	GAUGE
GALV	GALVANIZED
GL	GLASS OR GLAZING
GYP BD	GYPSUM BOARD
HDR	HEADER
HVAC	HEATING/VENTILATION/ AIR CONDITIONING
HT	HEIGHT
HORIZ	HORIZONTAL
HB	HOSE BIB
INT	INTERIOR
JT	JOINT
LB	LAG BOLT
LAV	LAVATORY
LT	LIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MTL	METAL
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OBS	OBSCURE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OR	OPERATION ROOM
OH	OVER HEAD
PVMT	PAVEMENT
PL	PLATE
PLN	PLAN
PLWD	PLYWOOD
RAD	RADIUS
RD	ROOF DRAIN
RM	ROOM
RR	RESTROOM
SCH	SCHEDULE
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STOR	STORAGE
SAT	SUSPENDED ACOUSTICAL TILE
SYS	SYSTEM
TEL	TELEPHONE
THK	THICK
T&G	TONGUE & GROOVE
T.O.P.	TOP OF PLATE (ELEV.)
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITIONAL TILE
VB	VINYL BASE
V.I.F.	VARIFY IN FIELD
WC	WATER CLOSET
WP	WEATHER OR WATER PROOF
WD	WOOD

VICINITY MAP



DEMO NOTES

1.) DEMOLITION PLAN IS INTENDED TO AID CONTRACTOR IN DETERMINING THE EXTENT OF THE NECESSARY WORK. IT DOES NOT NECESSARILY DEPICT THE ACTUAL, OR ALL OF THE DEMOLITION WORK. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION WORK REQUIRED TO COMPLETE THIS PROJECT. CONTRACTOR TO STUDY THESE CONST. DOCUMENTS AND PERFORM A THOROUGH FIELD INVESTIGATION PRIOR TO BIDDING THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL REQUIRED ENGINEERED SHORING FOR THE PROJECT.

2.) CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING HAZARDOUS MATERIALS FOUND IN PROJECT AREA DURING DEMOLITION, SUCH AS ASBESTOS, LEAD PAINT, ETC. SEE GENERAL NOTES FOR FURTHER INFO.

3.) PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL CONSULT WITH OWNER REGARDING (E) ITEMS OWNER MAY WISH TO KEEP. THE CONTRACTOR IS RESPONSIBLE FOR DISCARDING ALL CONSTRUCTION DEBRIS. THE OWNER WILL REMOVE ALL FURNITURE AND ANY OTHER (NON-FIXED) ITEMS THEY WISH TO KEEP. ALL DEMO'ED FIXTURES, EQUIPMENT, ETC. KEPT BY THE OWNER SHALL REMAIN ON SITE.

4.) CONTRACTOR TO MAINTAIN DUST FREE ENVIRONMENT. MAINTAIN THE REQUIRED FIRE RATING AT EXISTING CORRIDOR WALLS THROUGHOUT THE COURSE OF CONSTRUCTION. PROVIDE TEMPORARY WALLS REQUIRED BY FIRE MARSHALL. PROVIDE POST BARRICADES AT WALLS, CEILINGS AND ATTICS TO PREVENT PUBLIC ENTRANCE TO CONST. AREA.

5.) SEE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION THAT MAY BE REQUIRED.

6.) CONTRACTOR TO PATCH, REPAIR AND PREP ALL (E) SURFACES (FLOOR, WALL & CEILING) RECEIVING NEW OR TOUCH UP FINISHES AS NEEDED.

7.) CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF FINISHES AND/OR WALL BOARD AS REQUIRED FOR INSTALLATION OF ANY NEW ITEM(S). CONTRACTOR TO REPLACE, PREP, PATCH AND/OR APPLY NEW FINISH(ES) AS PER PLANS OR (E) CONDITIONS.

8.) ALL (E) RATED ASSEMBLIES ARE TO REMAIN INTACT. REPAIR AFTER DEMO WORK AS NECESSARY.

9.) (E) PLUMBING (SEWER & WATER) LOCATIONS ARE BASED UPON INFORMATION SUPPLIED BY OWNER. FIELD VERIFY ALL (E) PIPE SIZES AND LOCATIONS. ADJUST WORK (AT NO ADDITIONAL COST) AS NEEDED FOR ACTUAL FIELD CONDITIONS.

10.) ALL (E) STRUCTURAL STEEL COLUMNS TO REMAIN (UON)

PROJECT SCOPE

OVERALL SCOPE OF WORK IS TO PROVIDE A FIRE TRAINING FACILITY UTILIZING STORAGE CONTAINERS. THE CONTAINERS WILL BE STACKED IN A SERIES OF HEIGHTS TO CREATE A TRAINING FACILITY FOR THE CITY OF TURLOCK FIRE DEPARTMENT. WORK TO INCLUDE MINOR SITE DEMOLITION AND PREPARATION, STRUCTURAL FOUNDATION AND STORAGE CONTAINER CONNECTIONS, NEW STAIRWAYS AND DECKING WITH GUARDRAILS.

DEFERRED APPROVALS

- NONE

PROJECT DIRECTORY

ARCHITECT

PIRES, LIPOMI + NAVARRO ARCHITECTS

PRINCIPAL ARCHITECT: GREG PIRES

1720 G STREET
MODESTO, CA 95354
P: 209.522.8900
GREG@PLNARCHITECTS.COM

STRUCTURAL

AXIOM STRUCTURAL DESIGN

STRUCTURAL ENGINEER: ANDREW GREGORIO

5380 BERKELEY ROAD
HUGHSON, CA 95326
P: 209.604.2898
ANDREW@AXIOMSD.COM

PROJECT DATA

SITE ADDRESS:	791 S. WALNUT, TURLOCK, CA TURLOCK, CA 95380
PROJECT AREA:	- N/A
CONSTRUCTION:	- N/A
OCCUPANCY TYPE:	- N/A
SPRINKLERED:	- N/A
NUMBER OF FLOORS:	- N/A

SHEET INDEX

GENERAL NOTES

1. CODES: ALL WORK SHALL CONFORM TO THE FOLLOWING CODES. CONTRACTOR AND THEIR SUBCONTRACTORS SHALL HAVE WORKING KNOWLEDGE OF ALL CODES, REGULATIONS AND/OR STANDARDS APPLICABLE TO THEIR WORK. CONTRACTOR SHALL MAKE AVAILABLE LISTED CODES AT JOB SITE AT ALL TIMES.
   - 2013 BUILDING ENERGY EFFICIENCY STANDARDS
   - 2013 CALIFORNIA GREEN BUILDING STANDARDS
   - 2013 CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
   - 2013 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CCR BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC)
   - 2013 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24, CCR BASED ON THE 2011 NATIONAL ELECTRICAL CODE (NEC)
   - 2013 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CCR BASED ON THE 2011 UNIFORM MECHANICAL CODE (UMC)
   - 2013 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CCR BASED ON THE 2011 UNIFORM PLUMBINB CODE (UPC)
   - 2013 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CCR BASED ON THE 2011 INTERNATIONAL FIRE CODE (IFC)
2. EXISTING CONDITIONS: ALL EXISTING CONDITIONS NOT SHOWN OR INDICATED ON THESE PLANS ARE TO REMAIN UNCHANGED. FIELD VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS. ANY DISCREPANCY BETWEEN DRAWINGS AND ACTUAL WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION PRIOR TO COMMENCING WITH THE WORK.
3. INSULATION: ALL INSULATION MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR BARRIERS OR BREATHER PAPERS INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAWL SPACES OR ATTICS, SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH SECTION 803 IN THE 2013 CBC.
4. WORK: ALL WORK SHALL BE DONE IN A NEAT AND WORKMAN LIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE, EQUIPMENT, FIXTURES, PIPING, ETC., SHALL BE PLUMB, LEVEL, SQUARE OR CENTERED ETC., EQUIPMENT TO BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS' RECOMMENDATIONS.
5. ANCHORS: WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRE STRESSED TENDONS, USE A NONDESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS.
6. PLANS: GENERAL CONTRACTOR SHALL MAKE AVAILABLE COMPLETE SETS OF APPROVED CONSTRUCTION DOCUMENTS TO HIS OR HER SUBCONTRACTORS FOR REVIEW. EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE COMPLETE SET AND COORDINATING ITEMS WHICH PERTAIN TO HIS OR HER WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH THE WORK. MAKE SURE THE DRAWINGS YOU USE ARE APPROVED AND UP TO DATE.
7. ACCESS: ALL VALVES, DETECTORS, FIRE AND SMOKE DAMPERS SHALL BE ACCESSIBLE. WHETHER OR NOT SHOWN ON PLANS AT EACH LOCATION.
8. SCOPE OF WORK: IT IS NOT INTENDED THAT THE CONTRACT DOCUMENTS INCLUDE EACH AND EVERY SUBSYSTEM AND SUBCOMPONENT NECESSARY TO FULLY AND PROPERLY COMPLETE THE WORK. SUBSYSTEMS, SUBCOMPONENTS OR DETAILS REQUIRED OR NORMALLY INCLUDED AS TRADE PRACTICE MAY NOT BE SPECIFICALLY MENTIONED OR SHOWN. NEVERTHELESS, CONTRACTOR SHALL BE RESPONSIBLE FOR EACH ELEMENT OF THE WORK.
9. FIRE EXTINGUISHERS: NECESSARY 2A:10BC OR BETTER PORTABLE FIRE EXTINGUISHERS ARE PER SECTION 906, PART 9 (CFC). TITLE 24, CAC AND TITLE 19, CCR. AT REMODELS, PROTECT AND PROVIDE ADEQUATE CLEARANCES AROUND EXISTING EXTINGUISHERS CONSTRUCTION AS NECESSARY. ADDITIONAL FIRE EXTINGUISHERS, BY CONTRACTOR, MAY BE NEEDED CONSTRUCTION. PERMANENT FACILITIES REQUIRE A MINIMUM OF ONE PORTABLE FIRE EXTINGUISHER IN APPLICABLE BUILDINGS. LIMIT TRAVEL DISTANCE TO 75 FEET. VERIFY LOCATION(S) WITH OWNER & FLSO IF NOT ALREADY SHOWN ON PLANS. EXTINGUISHERS ARE REQUIRED IN ELEVATOR EQUIPMENT ROOMS. ACCESSIBLE PORTIONS SHALL NOT EXCEED 48" AFF. 20BC OR BETTER
10. SPECIAL TESTING AND INSPECTION FOR EXPANSION ANCHORS, CONCRETE CEILING WIRES ETC. TO BE COORDINATED BY CONTRACTOR, TESTING LAB CONTRACTED BY OWNER. COST OF REINSPECTION TO BE PAID BY CONTRACTOR.

IF THIS SHEET IS NOT 30"x42", IT HAS BEEN RESIZED - SCALE ACCORDINGLY 0 1/4" 1/2" 1" 2"

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CONSULTING ENGINEER

AUTHORITY HAVING JURISDICTION

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156 S. BROADWAY, SUITE 150, TURLOCK, CA

PROJECT DETAILS

PLN PROJECT NO: 16025
SUBMITTAL DATE:

PROJECT REVISIONS

MARK	DATE	DESCRIPTION

SHEET DETAILS

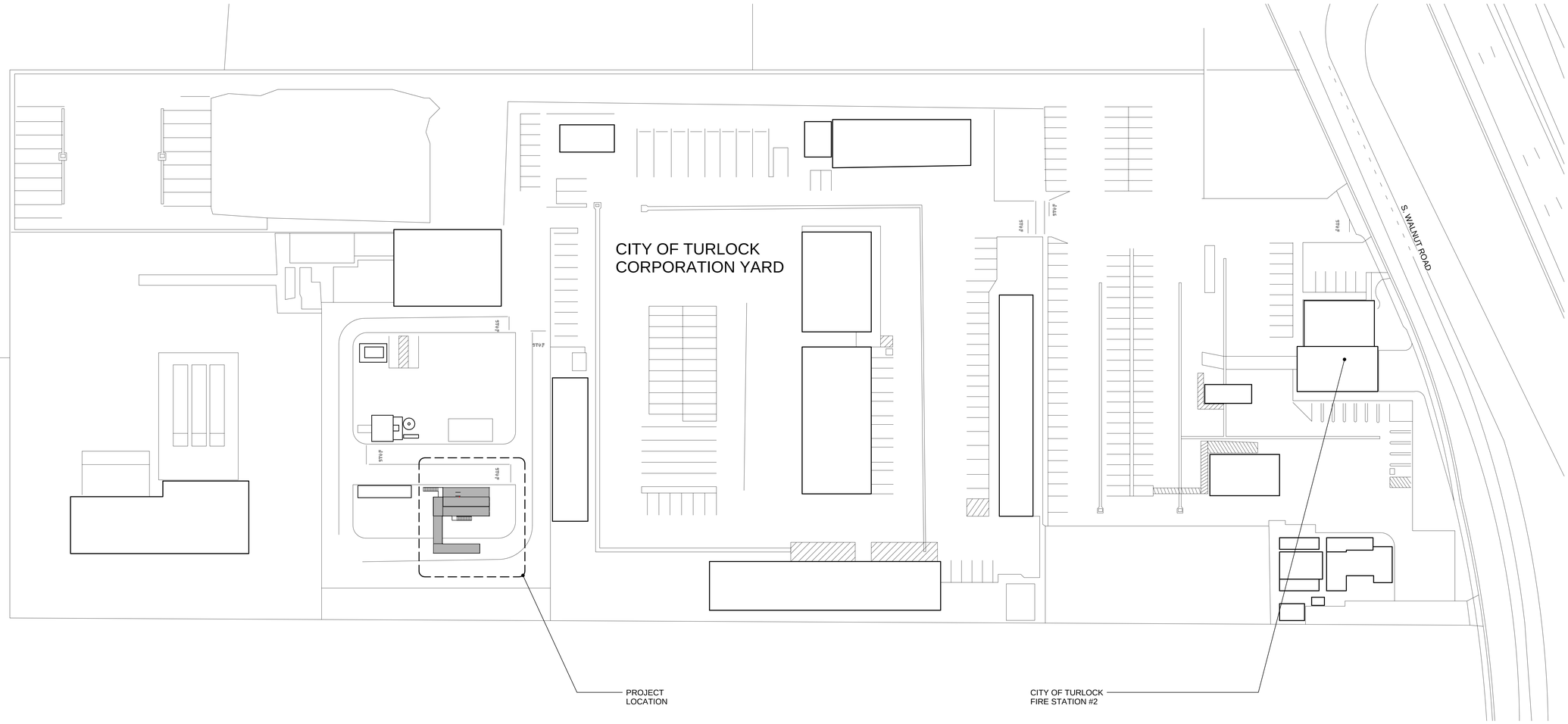
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE

COVER SHEET / GENERAL PROJECT INFORMATION

SHEET NUMBER

G0.0



1 PROPOSED SITE PLAN

1" = 40'-0"

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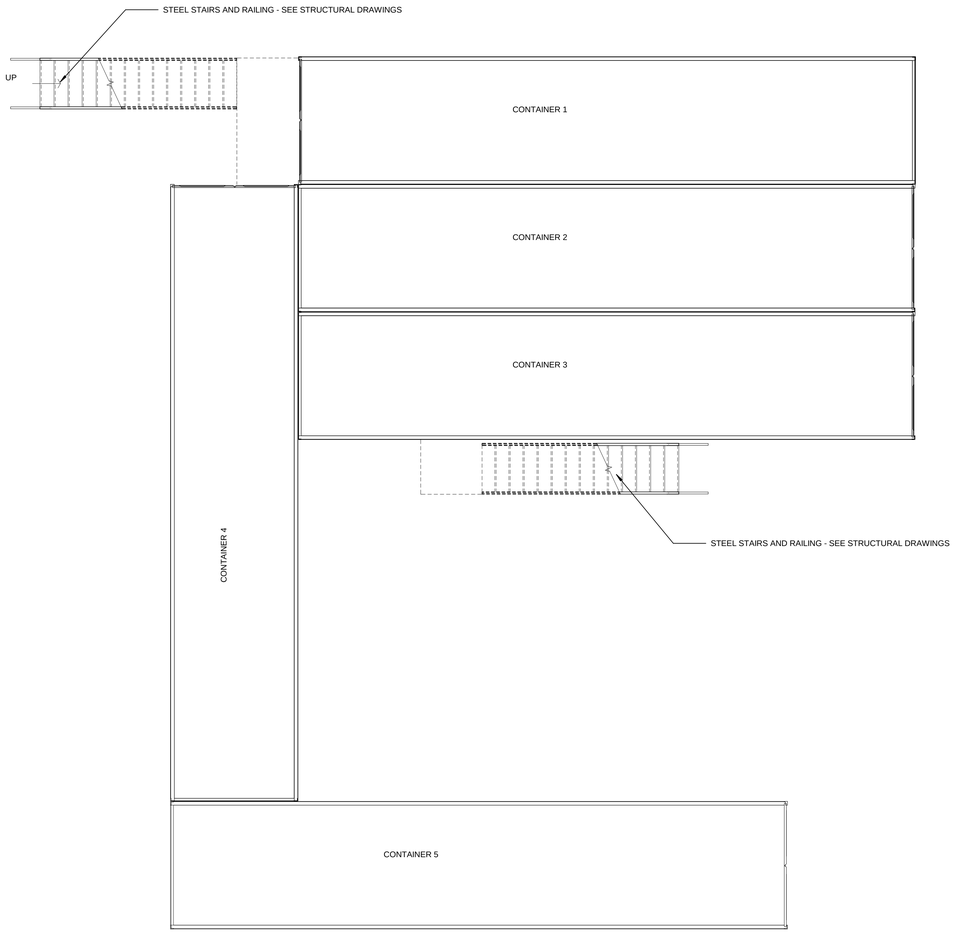
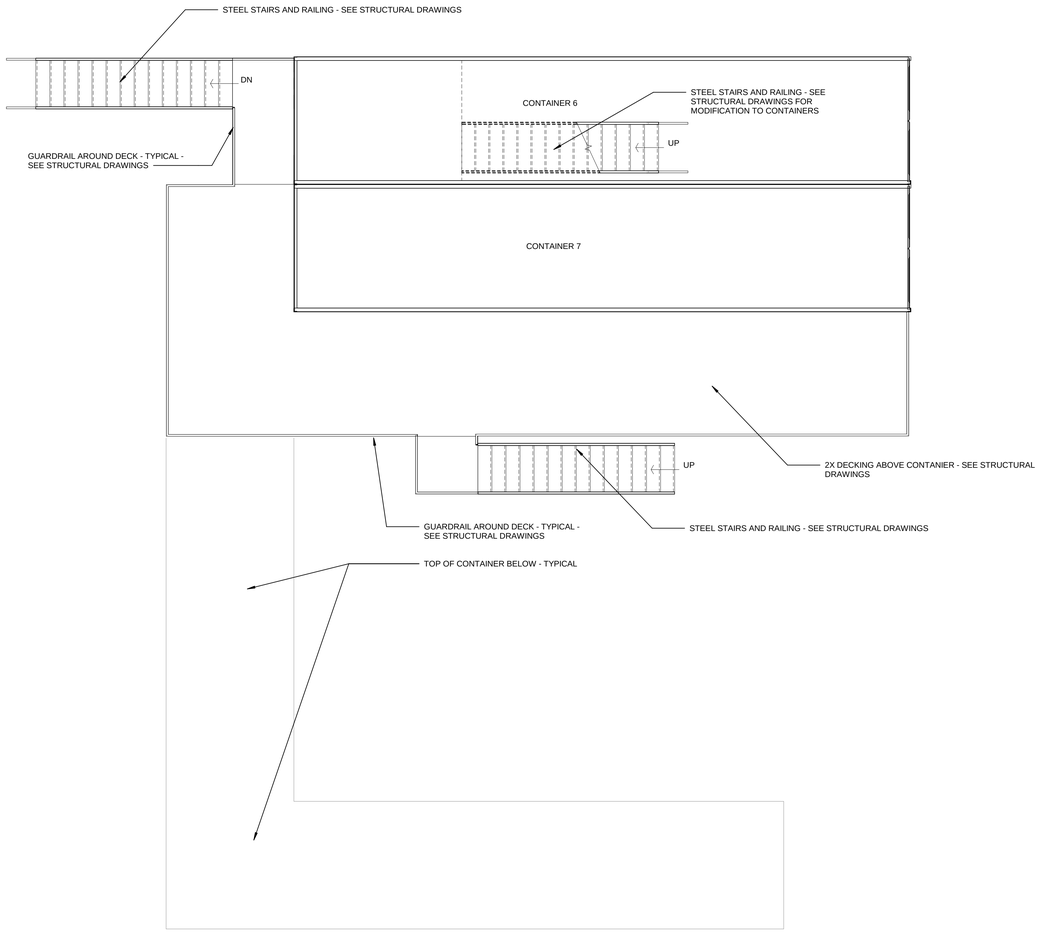


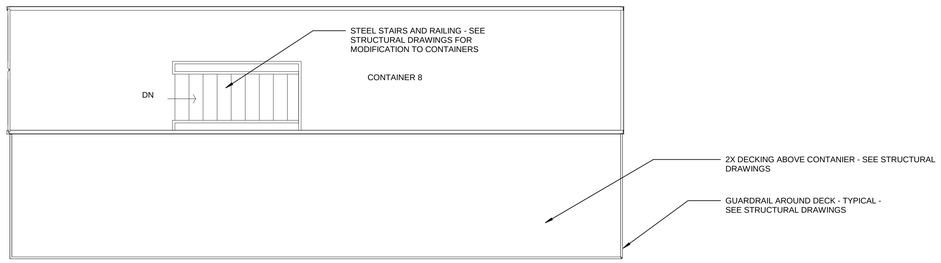
1 PROPOSED 1ST FLOOR PLAN

1/4" = 1'-0"



2 PROPOSED 2ND FLOOR PLAN

1/4" = 1'-0"



3 PROPOSED 3RD FLOOR PLAN

1/4" = 1'-0"

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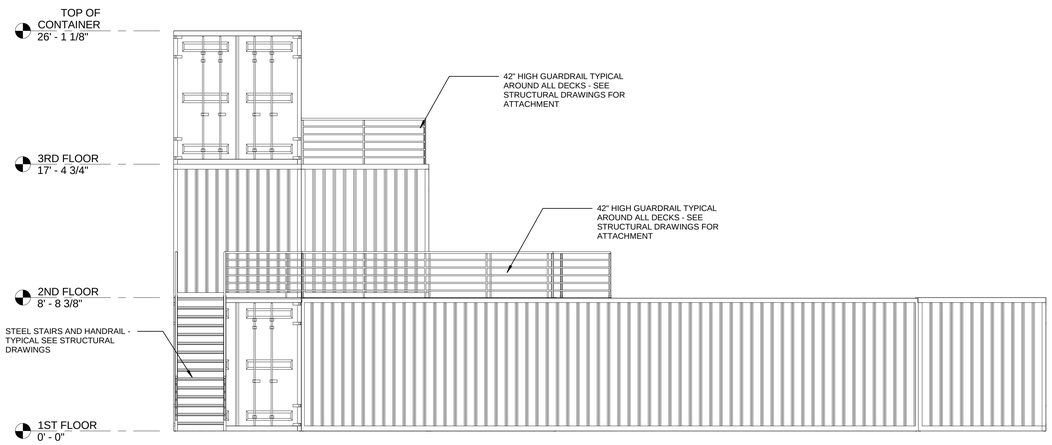
SHEET TITLE

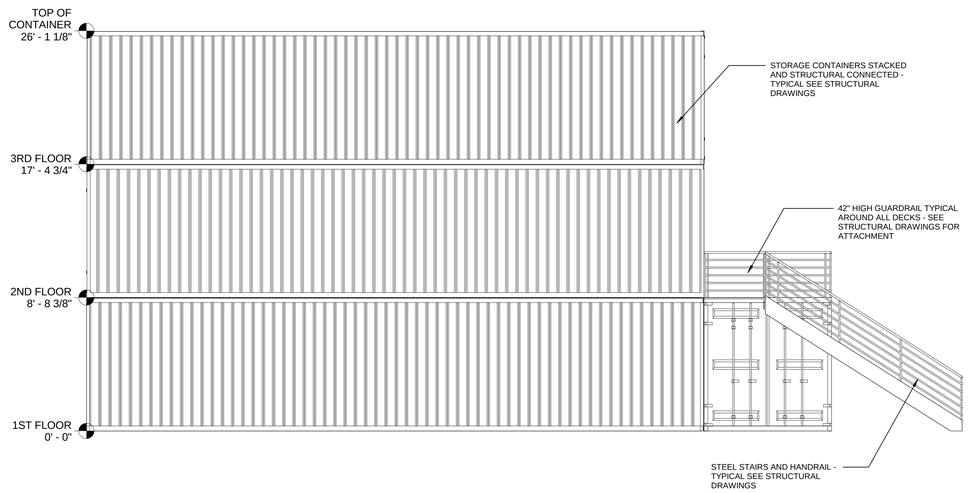
PROPOSED FLOOR PLAN

SHEET NUMBER

A1.1



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



2 North
1/4" = 1'-0"

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

3 South
1/4" = 1'-0"

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SUBMITTAL DATE:

PROJECT REVISIONS

MARK	DATE	DESCRIPTION

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DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NUMBER
A5.1

COLD-FORMED STEEL FRAMING

1. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AISI. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
2. ALL JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF 2007 AISI STANDARDS.
3. ALL PRODUCTS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURES ASSOCIATION (SSMA) PER ICC LEGACY REPORT ESR-3064P.
   a. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.
4. ALL STEEL MEMBERS AND COMPONENTS SHALL BE GALVANIZED.
5. ALL STEEL MEMBERS SHALL BE MANUFACTURED PER ASTM A653 SS, GRADE 50, CLASS I.
6. THE MINIMUM UNCOATED STEEL THICKNESS AS DELIVERED TO THE JOBSITE SHALL BE: 16GA = 0.0538"
7. ALL STEEL MEMBERS SHALL HAVE THE MINIMUM EFFECTIVE STRUCTURAL SECTION PROPERTIES AS GIVEN IN SSMA.
8. NO STUD "PUNCH-OUTS" ARE ALLOWED WITHIN 12" OF THE ENDS OF ANY JOISTS. JOISTS W/ "PUNCH-OUTS" WITHIN 12" OF AN END ARE TO BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.
9. TRACK SHALL MATCH JOIST DEPTH & GAGE, AND FLANGE WIDTH SHALL BE ¼", UON. ALL TRACKS TO BE UNPUNCHED WITH SOLID WEBS.
10. SCREW SPACING AND EDGE DISTANCE SHALL NOT BE LESS THAN 3 x D (D = NOMINAL SCREW DIAMETER). PENETRATION OF SCREWS THROUGH JOINED MATERIALS SHOULD NOT BE LESS THAN 3 EXPOSED THREADS. ALL SCREW HEADS SHALL BE LOW-PROFILE TYPE.
11. ALL SCREWS SHALL CONFORM WITH ASTM C1513 AND HAVE A CORROSION-RESISTANT COATING.
12. ALL WELDING SHALL CONFORM WITH AWS D1.3. ALL WELDING TO STRUCTURAL STEEL SHALL ALSO CONFORM WITH AWS D1.1. THE ELECTRODES USED FOR WELDING SHALL HAVE A MINIMUM YIELD STRENGTH OF 60 KSI. ALL WELDS OF GALVANIZED STEEL SHALL BE COATED WITH A ZINC-RICH PAINT.

WOOD

1. LUMBER SHALL BE GRADED IN ACCORDANCE WITH CBC SECTION 2303.1, CLASSIFICATION, DEFINITION, METHODS OF GRADING AND DEVELOPMENT OF DESIGN VALUES FOR ALL SPECIES OF LUMBER. SOLID SAWN LUMBER SHALL BE GRADE MARKED DOUGLAS FIR NO. 1 (NINETEEN PERCENT, 19%, MOISTURE CONTENT, MAXIMUM, AT THE TIME OF INSTALLATION)
2. FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE TREATED OR FIRE RETARDANT TREATED WOOD INCLUDING NUTS AND WASHERS SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. FOR ADDITIONAL REQUIREMENTS SEE CBC SECTION 2304.9.5.
3. FASTENERS AND CONNECTORS USED IN WET OR DAMP LOCATIONS INCLUDING NUTS AND WASHERS SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STELL, SILICON BRONZE OR COPPER. FOR ADDITIONAL REQUIREMENTS SEE CBC SECTION 2304.9.5.3.
4. SEE ARCHITECTURAL DRAWINGS FOR WOOD FINISHING AT DECK LOCATIONS

REINFORCED CONCRETE:

1. CONCRETE MATERIALS, QUALITY CONTROL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-11.
2. CEMENT SHALL CONFORM TO ASTM C150, PORTLAND CEMENT, TYPE I OR TYPE II.
3. AGGREGATES SHALL CONFORM TO ASTM C33, WITH MAXIMUM CONCRETE AGGREGATE SIZE OF 1 INCH.
4. WATER USED IN MIXING CONCRETE SHALL BE CLEAN AND FREE FROM INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALIS, SALTS, ORGANIC MATERIALS OR OTHER SUBSTANCES DELETERIOUS TO CONCRETE OR REINFORCEMENT. NONPOTABLE WATER SHALL NOT BE USED IN CONCRETE.
5. CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE COMPRESSIVE STRENGTH OF 3000 PSI W/C = 0.50

   UNLESS OTHERWISE SPECIFIED, f'c SHALL BE BASED ON 28-DAY TESTS. MAXIMUM CONCRETE SLUMP = 4".
   NOTE: MINIMUM CEMENT CONTENT SHALL BE 5¢ SACKS PER CUBIC YARD.
6. CONCRETE SHALL BE NORMAL WEIGHT (150 PCF) UNLESS OTHERWISE NOTED.
7. ADDITIVES AND ADMIXTURES TO CONCRETE SHALL NOT BE USED UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
8. SPECIFICATIONS FOR TESTING OF MATERIALS SHALL CONFORM WITH CBC SECTIONS 1903.
9. THE CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW WITH APPROPRIATE BACK-UP DATA ACCORDING TO CBC SECTION 1904.2.
10. THE EVALUATION AND ACCEPTANCE OF THE CONCRETE SHALL BE BASED ON ACI 318 SECTION 5.6.
11. THE MIXING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH ACI 318 SECTION 5.8.
12. CONCRETE SHALL BE DEPOSITED AS NEARLY AS PRACTICABLE IN ITS FINAL POSITION TO AVOID SEGREGATION DUE TO REHANDLING OR FLOWING. CONCRETE PLACEMENT SHALL BE CARRIED ON AT SUCH A RATE THAT CONCRETE IS AT ALL TIMES PLASTIC AND FLOWS READILY INTO SPACES BETWEEN REINFORCEMENT. CONCRETE THAT HAS PARTIALLY HARDENED OR BEEN CONTAMINATED BY FOREIGN MATERIALS SHALL NOT BE DEPOSITED IN THE STRUCTURE.
13. CONCRETE (OTHER THAN HIGH-EARLY-STRENGTH) SHALL BE MAINTAINED ABOVE 50°F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT.
14. CONDUITS, PIPES AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE AND WITHIN LIMITATIONS OF ACI 318 SECTION 6.3 MAY BE EMBEDDED IN CONCRETE WITH APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD, PROVIDED THEY ARE NOT CONSIDERED TO REPLACE STRUCTURALLY THE DISPLACED CONCRETE. REINFORCEMENTS, ANCHOR BOLTS, PIPE SLEEVES, AND OTHER INSERTS SHALL BE POSITIVELY SECURED IN PLACE PRIOR TO PLACING CONCRETE.
15. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
16. PROVIDE CONTROL OR CONSTRUCTION JOINTS AT 15'-0" ON CENTER EACH WAY, UNLESS OTHERWISE NOTED ON THE PLANS. SUBMIT A LAYOUT TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW. THE SURFACE OF CONCRETE CONSTRUCTION JOINTS SHALL BE CLEANED, FREE OF LAITANCE, AND ROUGHENED TO A ¼" MINIMUM AMPLITUDE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED. CONSTRUCTION JOINTS SHALL BE SO MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. PROVISION SHALL BE MADE FOR TRANSFER OF SHEAR AND OTHER FORCES THROUGH CONSTRUCTION JOINTS.
17. NON-SHRINK GROUT (OR DRY-PACK) UNDER COLUMN BASES SHALL CONFORM TO ASTM C 1107 AND HAVE A MINIMUM COMPRESSIVE OF 4000 PSI.
18. FORM ¾" CHAMFER AT ALL EXPOSED WALL AND COLUMN EDGES AND CORNERS, UON.

STEEL

1. THE DESIGN, FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH AISC 360 AND AISC 341 INCLUDING ANY ENFORCEMENT AGENCY AMENDMENTS.
2. EXPOSED INTERIOR STEEL SHALL RECEIVE ONE COAT OF PRIMER PAINT, UON. DO NOT PAINT SURFACES IN DIRECT CONTACT WITH CONCRETE, WHERE FIELD WELDING IS REQUIRED, WHERE FIRE-PROOFING IS REQUIRED OR CONTACT SURFACES OF STEEL-TO-STEEL AND DECK TO STEEL CONNECTIONS. CONCEALED STEEL DOES NOT REQUIRE PAINT, UON. EXPOSED EXTERIOR STEEL & FASTENERS SHALL BE HOT DIP GALVANIZED, UON. SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC FINISHES OF STEEL MEMBERS.
3. WELDING SHALL CONFORM TO CBC SECTION 2204.1. ALL WELDING SHALL BE DONE WITH E70 SERIES ELECTRODES
4. MINIMUM SIZE OF FILLET WELDS: ¾" FOR MATERIAL ¾" TO ¾" THICK, ¼" FOR MATERIAL OVER ¾" TO ¾" THICK, ¾" FOR MATERIAL OVER ¾" TO ¾" THICK, AND ¾" FOR MATERIAL OVER ¾" THICK. MATERIAL THICKNESS IS FOR THINNER PART JOINED. SINGLE PASS WELDS MUST BE USED FOR SIZES SHOWN. SIZE OF WELD IS LEG DIMENSION OF FILLET. MINIMUM EFFECTIVE LENGTH OF FILLET WELDS SHALL BE NOT LESS THAN FOUR TIMES THE FILLET SIZE. MINIMUM EFFECTIVE LENGTH OF INTERMITTENT FILLET WELDS SHALL BE 1½", WHEN WELD SIZES ARE NOT CALLED OUT, MINIMUM SIZE FULL LENGTH FILLET WELDS SHALL BE PROVIDED.
5. GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION WELDS, UON. GROOVE WELDS SHALL BE TERMINATED AT THE END OF JOINTS IN A MANNER THAT WILL ENSURE SOUND WELDS. USE WELD TABS AND BACKING BARS ALIGNED TO PROVIDE AN EXTENSION OF THE JOINT PREPARATION. REMOVE EXTENSIONS UPON COMPLETION & COOLING OF THE WELD. GRIND ENDS OF THE WELD SMOOTH AND FLUSH WITH THE EDGES OF THE ABUTTING PARTS.
6. WHERE "ALL AROUND" FILLET WELDS ARE INDICATED AT CONCEALED/NON-EXPOSED SQUARE OR RECTANGULAR HSS CONNECTIONS TO PLATES, FILLET WELDS ARE NOT REQUIRED AT RADIUSED CORNERS, UON.
7. FIELD WELDING TO BE DONE BY WELDERS CERTIFIED FOR STRUCTURAL STEEL, REINFORCING STEEL, LIGHT GAUGE STEEL.
8. SHOP WELDS MUST BE PERFORMED IN A LICENSED FABRICATOR'S SHOP.
9. BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL BE PLACED IN STANDARD SIZE HOLES, UON. BOLTS FOR STEEL-TO-CONCRETE CONNECTIONS SHALL BE PLACED IN ANCHOR ROD HOLES, UON. USE STANDARD AISC PITCH & GAUGE FOR BOLTED CONNECTIONS, UON.
10. BOLTS AND RODS SHALL BE CUT-THREAD TYPE WITH FULL DIAMETER BODY STYLE MEETING REQUIREMENTS OF ASME B18.2.1. THE BODY DIAMETER SHALL NOT BE LESS THAN THE MINIMUM MAJOR DIAMETER WHEN THREADS ARE CUT. REDUCED DIAMETER BODY STYLE ROLLED THREAD BOLTS OR RODS ARE NOT PERMITTED.
11. BOLT HEADS, NUTS OR "DTI"S OF BOLTED STEEL-TO-STEEL AND STEEL-TO-CONCRETE CONNECTIONS BEARING ON SLOPING SURFACES SHALL USE A BEVELED HARDENED WASHER IN THE BOLT ASSEMBLY AT THAT SURFACE.
12. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL TEMPORARY SUPPORTS REQUIRED FOR ERECTION. THIS STRUCTURE MAY NOT BE SELF-SUPPORTING AS DEFINED IN THE AISC CODE OF STANDARD PRACTICE; THEREFORE ERECTION BRACING IS REQUIRED AND IS TO BE PREPARED BY A LICENSED STRUCTURAL ENGINEER.
13. SEE ARCHITECTURAL DRAWINGS FOR STEEL FINISHES

STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS, MATERIAL SPECIFICATIONS FOR STRUCTURAL STEEL			
		ASTM	Fy (KSI)
CHANNELS (C & MC)		A36	36
ANGLES		A36	36
PLATES & BARS		A36	36
STEEL PIPE		A53, GRADE B	35
STRUCTURAL TUBING (HSS SQUARE & RECTANGULAR)		A500, GRADE B	46
STRUCTURAL TUBING (HSS ROUND)		A500, GRADE B	42
HIGH STRENGTH BOLTS	¾"ϕ TO 1"ϕ	A325, HEAVY HEX, TYPE I	92
	1⅛"ϕ TO 1½"ϕ		81
RODS (PLAIN & ALL-THREAD) ATR		A36	36
BOLTS		A307, GRADE A, HEX	Fu = 60 KSI
ANCHOR BOLTS & RODS		F1554, CLASS 2A, S3	
		GRADE 36, TYP UON	36
		GRADE 55, S1 & S4	55
		GRADE 105, S4 & S5	105
RAISED-PATTERN FLOOR		A786 MEETING ASTM A36	36

GENERAL

1. DETAILS AND DIMENSIONS OF CONSTRUCTION SHALL BE VERIFIED AT THE SITE BY THE CONTRACTOR AND ANY DISCREPANCY WITHIN THE PLANS, SECTIONS OR DETAILS SHALL BE PROMPTLY REPORTED TO THE STRUCTURAL ENGINEER OF RECORD. DO NOT SCALE DRAWINGS.
2. PORTIONS OF THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC ONLY. ITEMS INCLUDING, BUT NOT LIMITED TO, LOCATIONS, SIZES, QUANTITIES, ACCESSORIES AND CONNECTIONS ARE INDICATED IN A REPRESENTATIONAL MANNER AND MAY NOT BE COMPLETELY SHOWN. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF AXIOM STRUCTURAL DESIGN INC.
4. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL, COUNTY, STATE, OR FEDERAL AGENCIES HAVING JURISDICTION. AXIOM STRUCTURAL DESIGN INC ASSUMES NO RESPONSIBILITY FOR SUPERVISION OF CONSTRUCTION OR PROPER EXECUTION OF THE WORK SHOWN ON THESE DRAWINGS. SAFETY METHODS AND TECHNIQUES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. ANY DEVIATIONS OR UNAUTHORIZED CHANGES TO THESE DRAWINGS ARE NOT THE RESPONSIBILITY OF AXIOM STRUCTURAL DESIGN INC. DEVIATIONS FROM THE ORIGINAL DRAWINGS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE STRUCTURAL ENGINEER OF THE PROGRESS OF THE PROJECT TO FACILITATE SITE VISITS, TO ANSWER QUESTIONS AND VIEW THE PROGRESS OF THE WORK.
6. ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS ARE DESIGNED AS IN THEIR FINAL LOCATION. AXIOM STRUCTURAL DESIGN INC DOES NOT PERFORM CONSTRUCTION ENGINEERING OR ENGINEERING NECESSARY TO PLACE ANY STRUCTURAL MEMBERS IN THEIR FINAL LOCATION.
7. FEATURES OF CONSTRUCTION INDICATED ARE TYPICAL. WHERE FEATURES ARE NOT FULLY OR SPECIFICALLY INDICATED BY THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE AS INDICATED FOR IDENTICAL OR SIMILAR FEATURES ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. IF ANY CONDITIONS REQUIRE CONSTRUCTION DIFFERENT THAN THAT INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER OF RECORD.
8. STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY OTHER CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER OF RECORD.
9. THE CONSTRUCTION DOCUMENTS ARE NOT COMPLETE AND READY FOR CONSTRUCTION UNTIL THEY ARE APPROVED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER OF RECORD.

DESIGN CRITERIA

1. THIS BUILDING HAS BEEN DESIGNED TO SUSTAIN, WITHIN THE LIMITATIONS SPECIFIED IN THE 2013 CALIFORNIA BUILDING CODE (CBC), ALL LOADS SET FORTH IN CHAPTER 16 AND ELSEWHERE IN THE CBC, COMBINED IN ACCORDANCE WITH SECTION 1605.

SEISMIC DESIGN CRITERIA									
SITE CLASS	OCCUPANCY CATEORY	SEISMIC DESIGN CATEGORY	IMPORTANCE FACTOR, I	S_1	S_s	S_{MS}	S_{M1}	S_{DS}	S_{D1}
D	II	D	1.0	0.904	0.333	1.029	0.577	0.686	0.385

WIND DESIGN CRITERIA			
EXPOSURE	BASIC WIND SPEED	TOPOGRAPHIC FACTOR, K_{zt}	DIRECTIONALITY FACTOR, K_d
C	110 MPH	1.0	0.85

SOIL DESIGN CRITERIA				
INFORMATION BASED ON:	SOIL TYPE	ALLOWABLE BEARING PRESSURE	ALLOWABLE LATERAL BEARING	LATERAL SLIDING RESISTANCE
CBC MINIMUM	POORLY GRADED SAND, SILT AND CLAY	D + L = 1500 PSF	100 LBS/PSF (PER FT OF DEPTH)	130 PSF

EXCAVATIONS AND FOUNDATIONS

1. SLOPES FOR PERMANENT FILLS SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL. CUT SLOPES FOR PERMANENT EXCAVATIONS SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL UNLESS SUBSTANTIATING DATA JUSTIFYING STEEPER CUT SLOPES IS SUBMITTED.
2. EXPANSIVE SOIL UNDER THE FOUNDATION SHALL BE SCARIFIED AND RE-COMPACTED TO 90% RELATIVE DENSITY, TO A DEPTH OF 18 INCHES BELOW ROUGH GRADE. THE CONTRACTOR SHALL PROVIDE DIKES AND LONG TERM SPRINKLING TO OBTAIN A MOISTURE CONTENT OF 3% PERCENT ABOVE OPTIMUM PRIOR TO COMPACTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A MOISTURE TEST BY AN APPROVED TESTING LABORATORY PRIOR TO COMPACTION. ALL SUB-GRADE SHALL BE NATIVE OR ENGINEERED FILL.
3. FILLS USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE AND COMPACTED TO 90% RELATIVE DENSITY. A SOIL INVESTIGATION REPORT AND A REPORT OF SATISFACTORY PLACEMENT OF FILL, BOTH ACCEPTABLE TO THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER OF RECORD, SHALL BE SUBMITTED.
4. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL 12 INCHES BELOW NATURAL OR FINISHED GRADE, WHICHEVER IS LOWER.
5. FOUNDATIONS FOR ALL BUILDINGS WHERE THE SURFACE OF THE GROUND SLOPES MORE THAN 1 FOOT IN 10 FEET SHALL BE LEVEL OR SHALL BE STEPPED SO THAT BOTH TOP AND BOTTOM OF SUCH FOUNDATIONS ARE LEVEL.

REINFORCING NOTES:

1. REINFORCEMENT SHALL BE DEFORMED REINFORCEMENT AND CONFORM TO ASTM A706 OR ASTM A615, GRADE 60, REINFORCING BARS FOR CONCRETE.
2. REINFORCING BARS SHALL HAVE A SPECIFIED YIELD STRENGTH OF 60,000 PSI (GRADE 60).
3. REINFORCING BARS SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1913.2.6.
4. DIMENSIONS LOCATING REINFORCING STEEL ARE TO THE FACE OF REINFORCING STEEL AND DENOTE CLEAR COVERAGE. MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UON:
   A. CONCRETE CAST AGAINST EARTH (EXCEPT SLAB ON GRADE) - 3"
      - SLAB ON GRADE - CENTER REINFORCEMENT IN SLAB
   B. CONCRETE FORMED & EXPOSED TO EARTH OR WEATHER:
      - #6 THRU #18 BARS - 2"
      - #5 BAR, W31 OR D31 WIRE, & SMALLER - 1½"
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
      - BEAMS & COLUMNS - 1½"
      - SLABS & WALLS: #14 & #18 BARS - ⅝", #11 BAR & SMALLER - ¾"
5. WELDED SMOOTH WIRE FABRIC FOR CONCRETE REINFORCEMENT SHALL CONFORM TO ASTM 185.
6. ALL WELDED REBAR SHALL BE ASTM A706, GRADE 60. WELD FILLER METAL FOR REINFORCING STEEL SHALL COMPLY WITH AWS D1.4, fu=80 KSI. WELDING SHALL CONFORM WITH AWS D1.4
7. SPLICES IN CONTINUOUS REINFORCING SHALL BE LAPPED 48", UON. SPLICES IN ADJACENT BARS SHALL BE STAGGERED SO THERE IS NO OVERLAP.
8. HOOKS SHALL BE STANDARD HOOKS, U0N.

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ARCHITECT OF RECORD

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LICENSED ARCHITECT — GREGORY L. PIRES — C-30314 — REN. 4-30-17 — STATE OF CALIFORNIA

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209-484-8640

JOB NO. 16027

AHJ #

FIRE TRAINING FACILITY

791 S. WALNUT, TURLOCK, CA

CITY OF TURLOCK ENGINEERING DIVISION
156 S. BROADWAY, SUITE 150
TURLOCK, CA 95380

PROJECT DETAILS

PLN PROJECT NO: 16025
SUBMITTAL DATE:

PROJECT REVISIONS

MARK	DATE	DESCRIPTION

SHEET DETAILS

DRAWN BY: AG
CHECKED BY: MS

SHEET TITLE

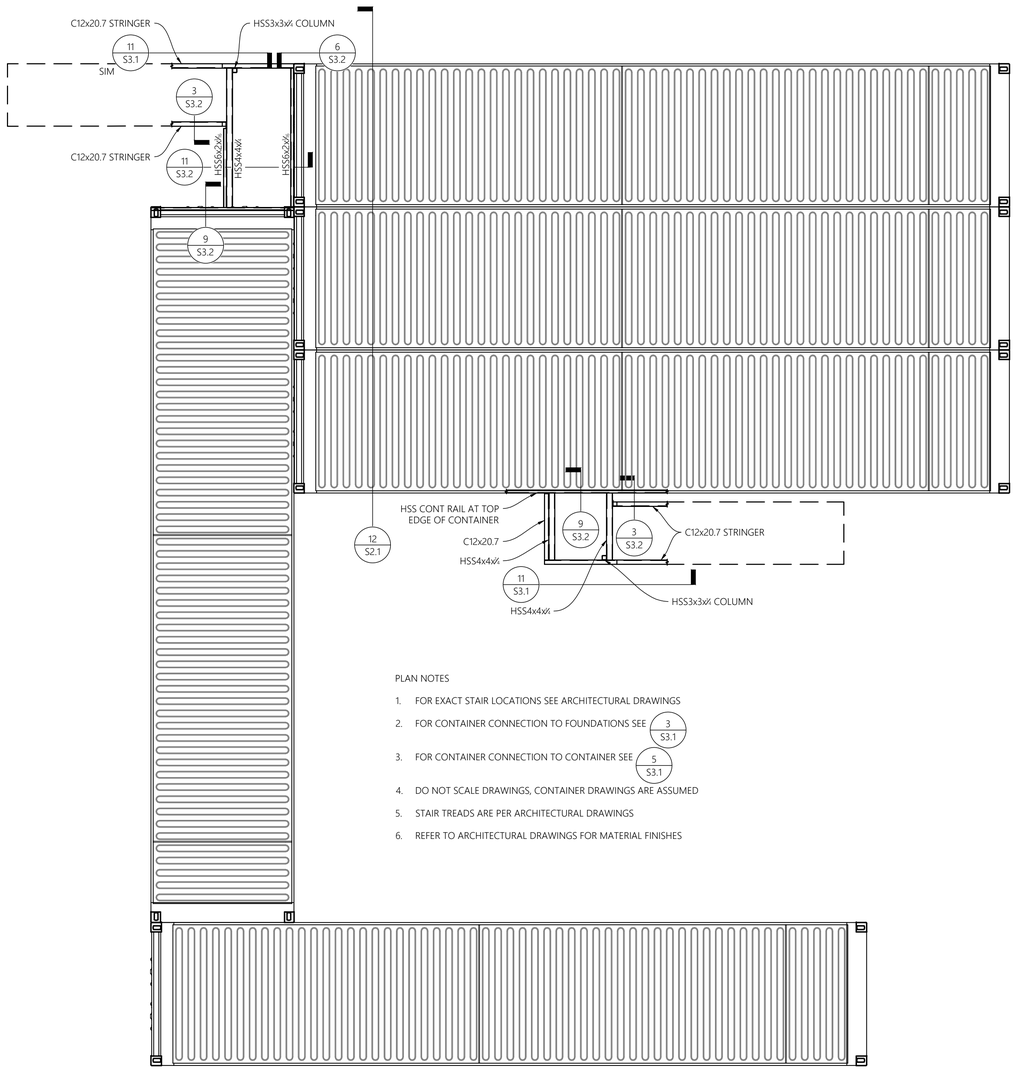
STRUCTURAL NOTES

SHEET NUMBER

S0.1

SCALE -

IF THIS SHEET IS NOT 36"x24", IT HAS BEEN RESIZED - SCALE ACCORDINGLY 0 1/4" 1/2" 1" 2"

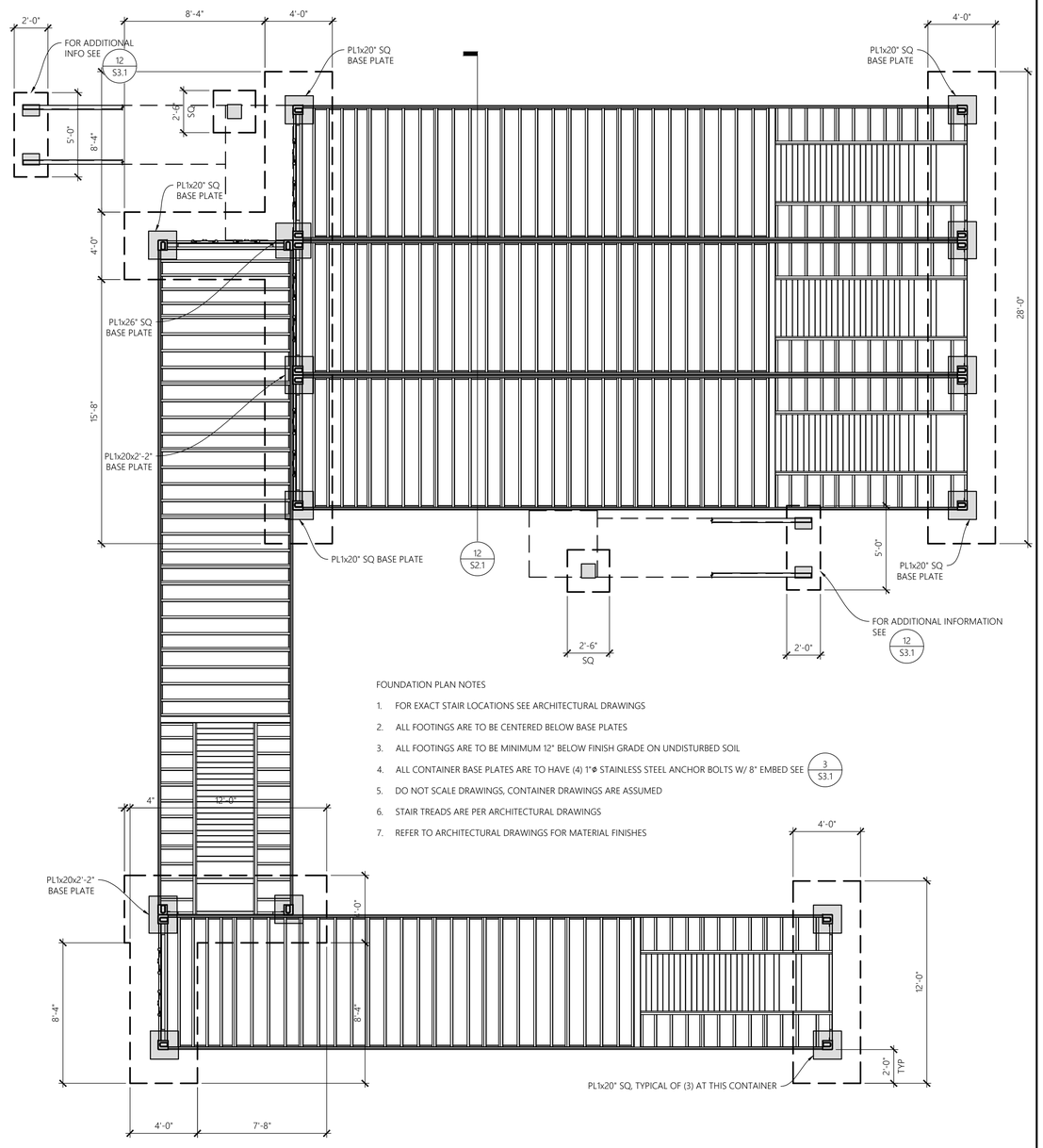


PLAN NOTES

1. FOR EXACT STAIR LOCATIONS SEE ARCHITECTURAL DRAWINGS
2. FOR CONTAINER CONNECTION TO FOUNDATIONS SEE 3 / S3.1
3. FOR CONTAINER CONNECTION TO CONTAINER SEE 5 / S3.1
4. DO NOT SCALE DRAWINGS, CONTAINER DRAWINGS ARE ASSUMED
5. STAIR TREADS ARE PER ARCHITECTURAL DRAWINGS
6. REFER TO ARCHITECTURAL DRAWINGS FOR MATERIAL FINISHES

NORTH

12 LOW ROOF PLAN — SCALE 1/4" = 1'-0"



FOUNDATION PLAN NOTES

1. FOR EXACT STAIR LOCATIONS SEE ARCHITECTURAL DRAWINGS
2. ALL FOOTINGS ARE TO BE CENTERED BELOW BASE PLATES
3. ALL FOOTINGS ARE TO BE MINIMUM 12" BELOW FINISH GRADE ON UNDISTURBED SOIL
4. ALL CONTAINER BASE PLATES ARE TO HAVE (4) 1"ϕ STAINLESS STEEL ANCHOR BOLTS W/ 8" EMBED SEE 3 / S3.1
5. DO NOT SCALE DRAWINGS, CONTAINER DRAWINGS ARE ASSUMED
6. STAIR TREADS ARE PER ARCHITECTURAL DRAWINGS
7. REFER TO ARCHITECTURAL DRAWINGS FOR MATERIAL FINISHES

NORTH

6 FOUNDATION PLAN — SCALE 1/4" = 1'-0"

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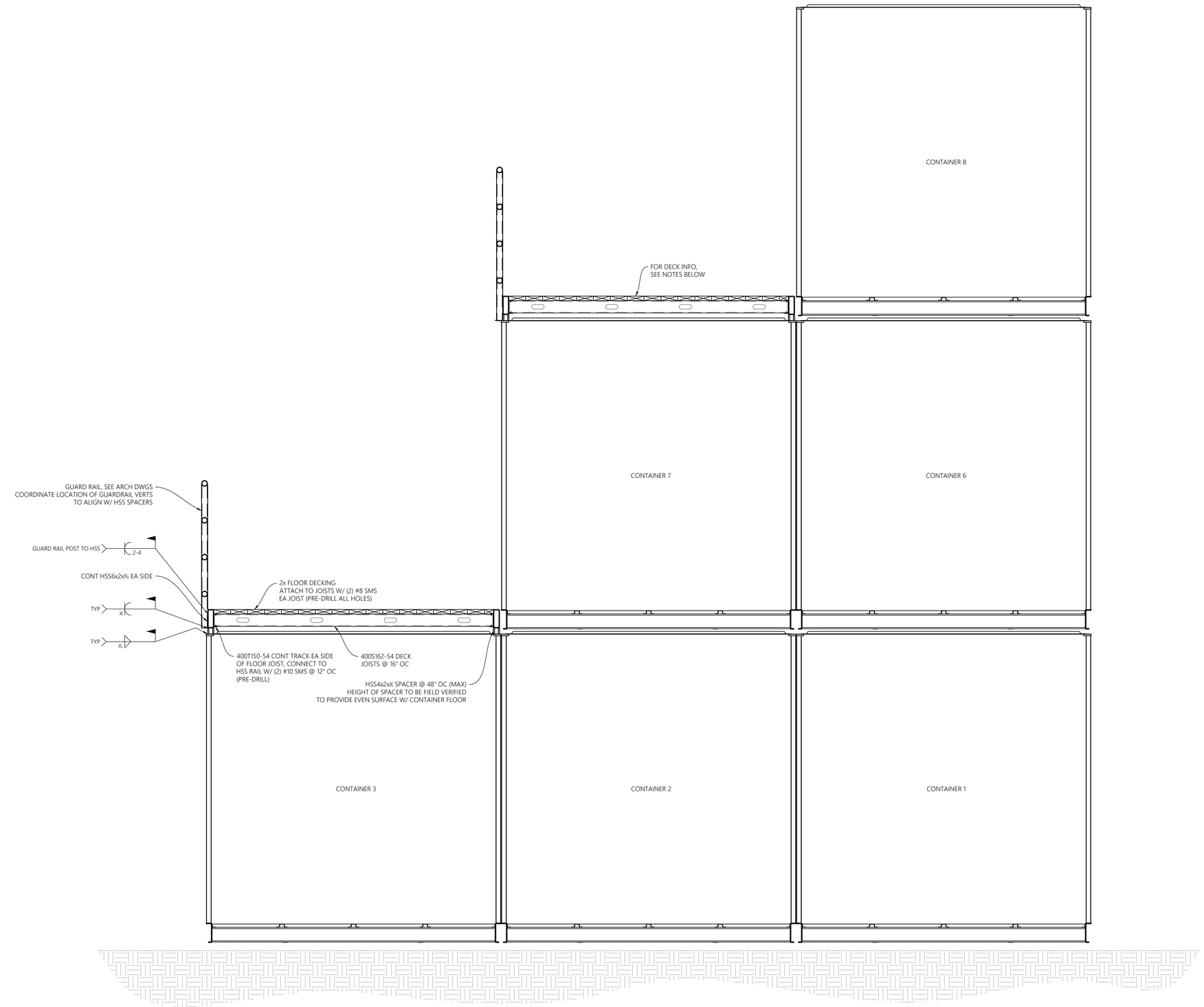
CHECKED BY: MS

SHEET TITLE

STRUCTURAL PLANS

SHEET NUMBER

S1.1



12 SECTION

SCALE 3/4" = 1'-0"

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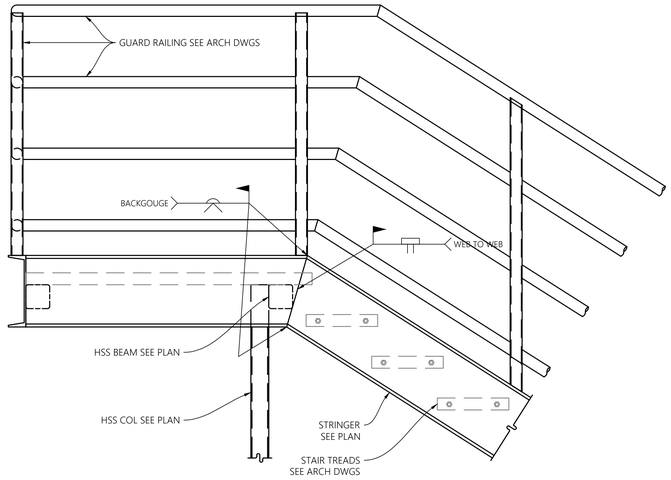
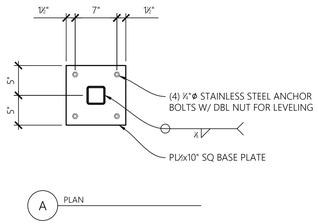
SHEET TITLE

SECTION

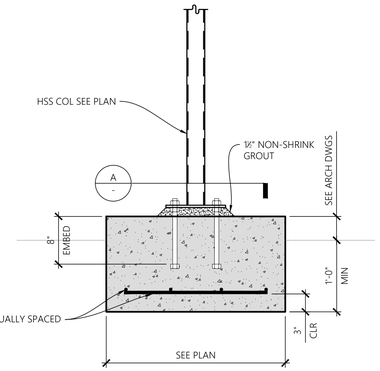
SHEET NUMBER

S2.1

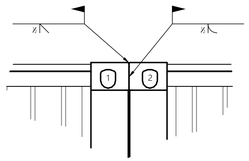




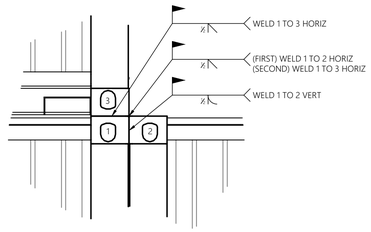
A PLAN



11 ELEVATION AT STRINGER LANDING — SCALE 1" = 1'-0"

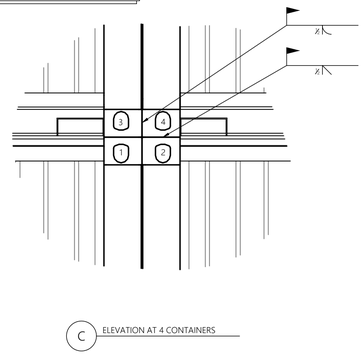


A ELEVATION AT 2 CONTAINER



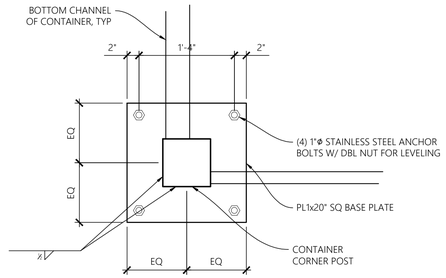
B ELEVATION AT 3 CONTAINERS

WHEN WELDING 4 CONTAINERS TOGETHER FOLLOW SAME PROCEDURE AS SHOWN IN B AND ADD WELDS AS SHOWN IN C

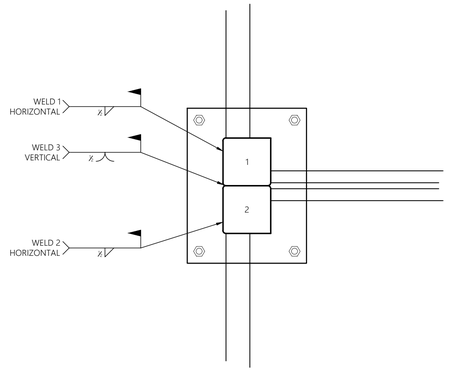


C ELEVATION AT 4 CONTAINERS

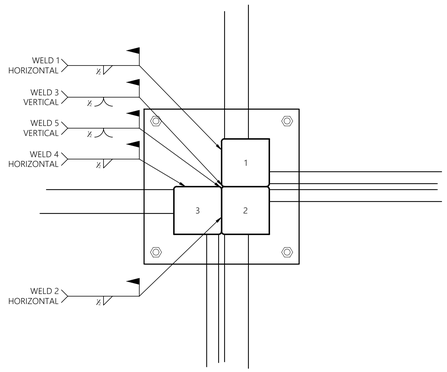
5 CONTAINER TO CONTAINER ATTACHMENT — SCALE 1" = 1'-0"



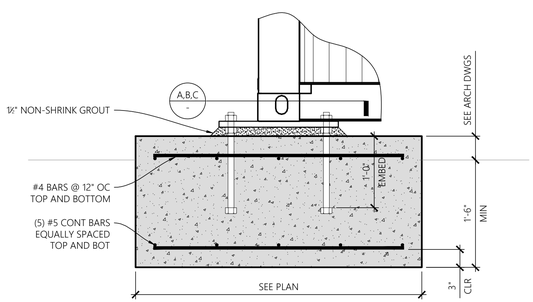
A PLAN AT 1 CONTAINER



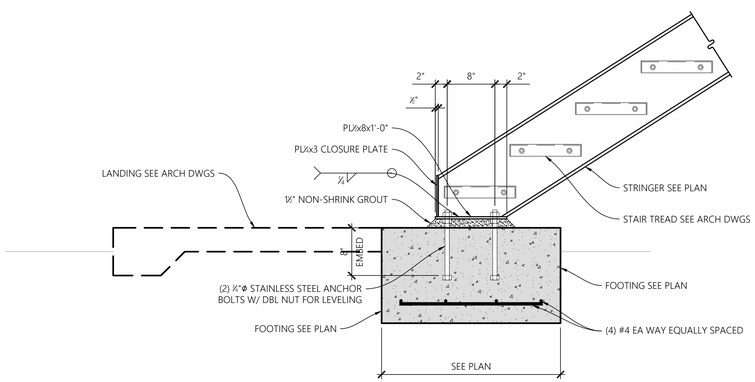
B PLAN AT 2 CONTAINERS

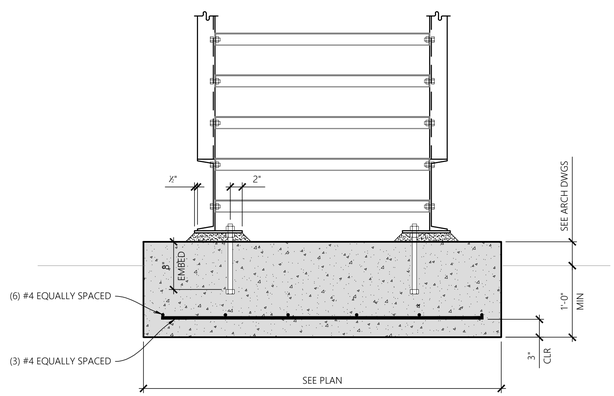


C PLAN AT 3 CONTAINERS



3 CONTAINER BASE ATTACHMENT — SCALE 1" = 1'-0"





12 STRINGER BASE ANCHORAGE — SCALE 1" = 1'-0"

IF THIS SHEET IS NOT 36"x24", IT HAS BEEN RESIZED - SCALE ACCORDINGLY 0 1/4" 1/2" 1" 2"

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CITY OF TURLOCK ENGINEERING DIVISION
156 S. BROADWAY, SUITE 150
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PROJECT DETAILS

PLN PROJECT NO:	16025
SUBMITTAL DATE:	

PROJECT REVISIONS

MARK	DATE	DESCRIPTION

SHEET DETAILS

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CHECKED BY:	MS
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SHEET TITLE

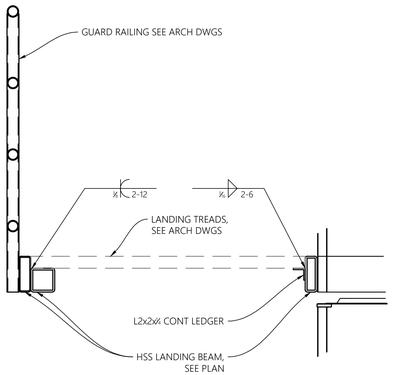
DETAILS

SHEET NUMBER

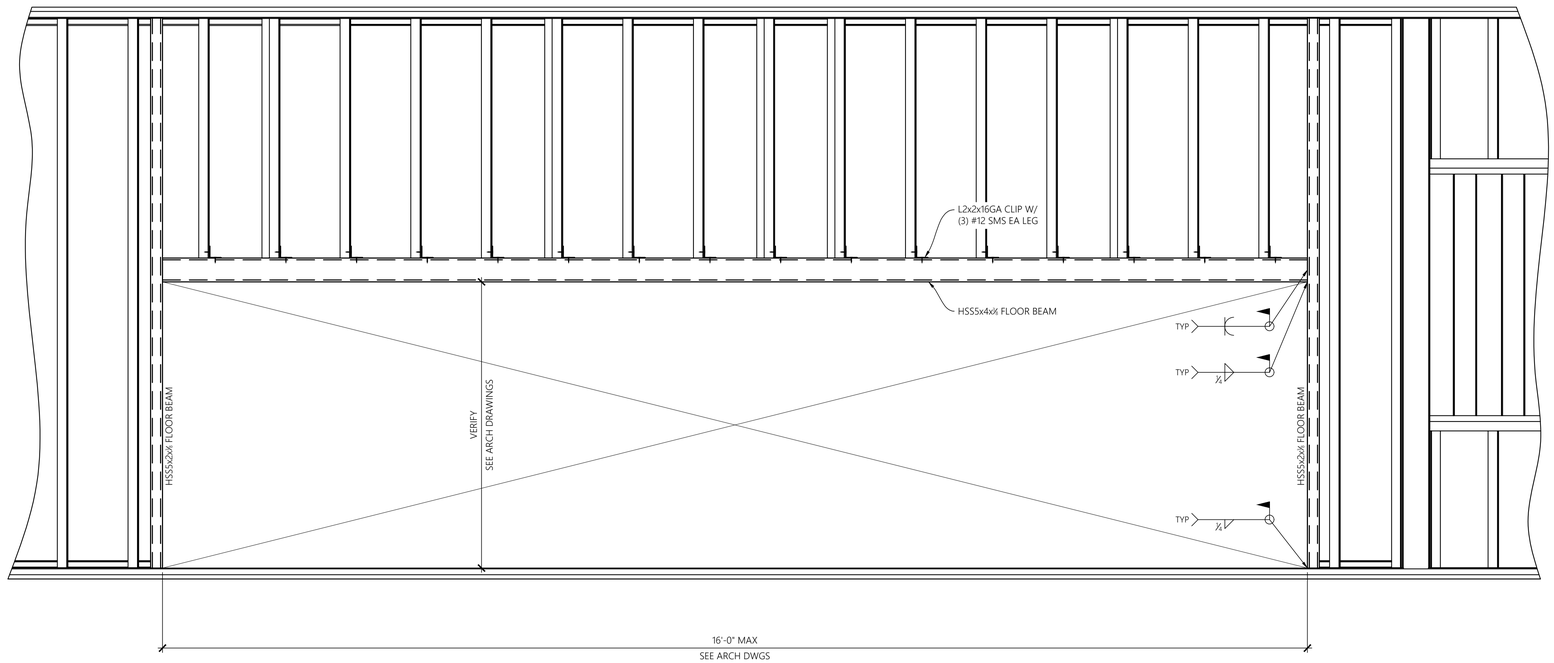
S3.1

NOT USED

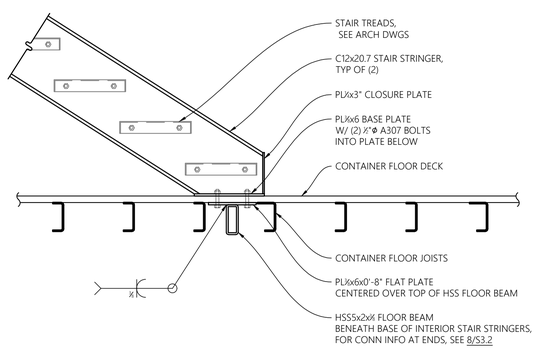
10 NOT USED — SCALE -



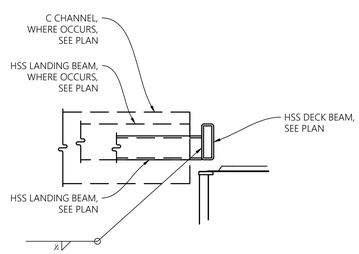
11 STAIR LANDING SECTION — SCALE 1" = 1'-0"



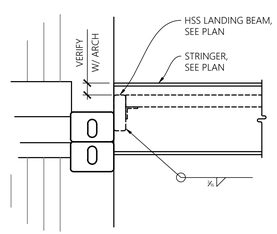
8 PARTIAL PLAN AT FLOOR OPENING FOR STAIRS — SCALE 1" = 1'-0"



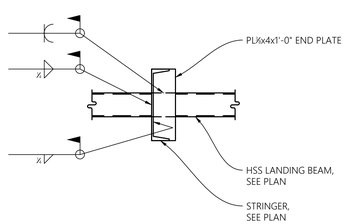
12 INTERIOR STAIR STRINGER ATTACHMENT TO FLOOR — SCALE 1" = 1'-0"



9 SECTION AT HSS TO TOP OF CONTAINER — SCALE 1" = 1'-0"



6 SECTION AT HSS TO CONTAINER — SCALE 1" = 1'-0"



3 ELEVATION AT STRINGER TO HSS — SCALE 1" = 1'-0"

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CHECKED BY: MS

SHEET TITLE

DETAILS

SHEET NUMBER

S3.2