BURN BUILDING

FOR

CITY OF LAGRANGE FIRE DEPARTMENT

LAGRANGE, GEORGIA

(ARCHITECTURAL)

PROJECT NUMBER 1730

FOR BIDDING

26 FEB 2018

Architecture - Planning
Construction Administration

www.smithdesigngroup.net

206 West Haralson Street - LaGrange Georgia 30240

ABBREVIATIONS:

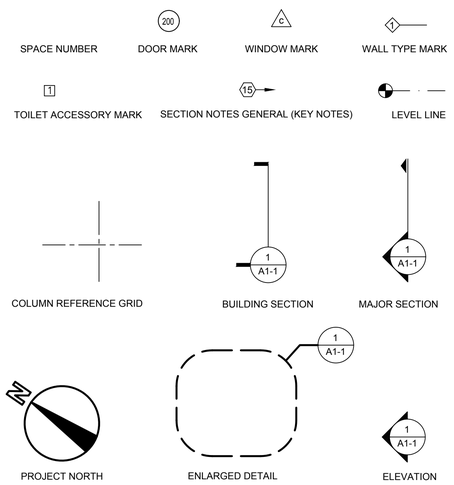
@	At
A.B.	Anchor Bolt
A.C.	Air Conditioner
ACOUST.	Acoustical
ALUM.	Aluminum
ARCH.	Architectural
A.T.	Acoustical Tile
B.C.	Bottom of Curb
BLK.	Block
BOTT.	Bottom
CER.	Ceramic
CHM.	Custom Hollow Metal
C.I.	Curb Inlet
	Centerline
CLO.	Closet
CMU.	Concrete Masonry Unit
C.O.	Clean Out
COL.	Column
CONC.	Concrete
CONST.	Construction
CONT.	Continuous
C.T.	Ceramic Tile
CHR.	Coat & Hat Rack
C.J.	Control Joint
D: DIAM.	Diameter
DF	Drink Fountain
DI	Drain Inlet
DN	Down
DRIV.	Driver
DS	Downspout
DWGS.	Drawings
DWLS.	Dowels
DR	Drawer
E.J.; EXP. JT.	Expansion Joint
EL.; ELEV	Elevation
EQ	Equal
EQUIP.	Equipment
E.F.I.S.	Exterior Finish Insulation System
F.E.	Fire Extinguisher
F.H.	Fire Hose
FES	Fire Extinguisher Sign
FIN.	Finish
FLEX.	Flexible
FLR.	Floor
FT.	Foot
FTG.	Footing
GA	Gauge
G.C.	General Contractor
GYP. BRD.	Gypsum Wallboard
H	Height
HC	Handicapped
HCM	Hollow Concrete Masonry
HORIZ.	Horizontal
HW	Hand Wash
I.D.	Inside Diameter
IND.	Industrial
INV.	Invert
JAN.	Janitor
J.B.	Joist Bearing
JST.	Joist
J.T.	Joist
LAV.	Lavatory
LLV.	Long Leg Vertical
MAS.; MSRY	Masonry
MCS	Modular Cabinet System
MECH.	Mechanical
MIN.	Minimum
N	North
NA	Not Applicable
N.I.C.	Not In Contract
NTS	Not to Scale
O.C.	On Center
OPP.	Opposite
PL	Plate
PT	Pressure Treated
PEJ	Premolded Expansion
PLAST	Plaster
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
R	Radius
REF	Refrigerator
REQ'D	Required
RL	Roof Level
RM	Room
RT	Resilient Tile
RW	Regular Weight
	Round
SQ.	Square
SIM	Similar
SLV	Short Leg Vertical
S.M.	Sheet Metal
STL	Steel
STO.; STOR	Storage
STRUCT.	Structural
SH	Shelves
TC	Teacher Cabinet
T.C.	Top of Curb
TD	Turn Down
TFF	Top of Finished Floor
TFS	Top of Finished Slab
T & G	Tongue and Groove
T.M.	Transitional Material
TP	Top of Pavement
T/S	Top of Steel
TYP.	Typical
U.N.O.	Unless Noted Otherwise
V.C.J.	Veneer Control Joint
VERT.	Vertical
VRS	Varies
VWC	Vinyl Wall Covering
W	Width
W/	With
W.C.	Water Cooler
WD	Wood
WWF	Welded Wire Fabric

CONSTRUCTION MATERIALS:

PLAN / SECTION

- face brick
- hollow concrete masonry
- gypsum wallboard
- ceramic/quarry tile
- acoustical tile
- resilient flooring
- carpet
- steel/iron
- aluminum
- small scale metal
- rough lumber
- large scale finish lumber
- small scale finish lumber
- large scale plywood
- small scale plywood
- batt/blanket insulation
- laminated plastic

INDEX OF SYMBOLS:



The Current State Minimum Standard Codes

The following are the current state minimum standard codes for construction as adopted by the Board of Community Affairs.

Current Mandatory Codes as Adopted by DCA:

- International Building Code, 2012 Edition, with Georgia Amendments (2014) (2015)
- International Residential Code, 2012 Edition, with Georgia Amendments (2014) (2015)
- International Fire Code, 2012 Edition, with Georgia Amendments (2014)
- International Plumbing Code, 2012 Edition, with Georgia Amendments (2014) (2015)
- International Mechanical Code, 2012 Edition, with Georgia Amendments (2014) (2015)
- International Fuel Gas Code, 2012 Edition, with Georgia Amendments (2014) (2015)
- National Electrical Code, 2014 Edition (No Georgia Amendments)
- International Energy Conservation Code, 2009 Edition, with Georgia Supplements and Amendments (2011) (2012)

For information and questions regarding the Life Safety Code (NFPA 101) or the Georgia Accessibility Code please contact the State Fire Marshal's Office.

NO SMOKING
INSIDE BUILDING
OR ON SITE

NOTE TO GENERAL CONTRACTOR AND SUB-CONTRACTORS.

HARD HATS, SAFETY GLASSES, VESTS, ETC., ARE TO BE WORN AT ALL TIMES BY CONSTRUCTION PERSONNEL. ALL SAFETY REQUIREMENTS OF CITY OF LAGRANGE SYSTEM WILL BE IN FORCE ON THIS PROJECT. WEEKLY SAFETY MEETINGS ARE REQUIRED AND MINUTES OF ALL SAFETY MEETINGS TO BE SUBMITTED WITH MONTHLY PAY REQUESTS.

NOTE: WEEKLY PROJECT MEETINGS ON SITE WITH OWNER AND ARCHITECT WILL BE REQUIRED WITH CONTRACTOR.

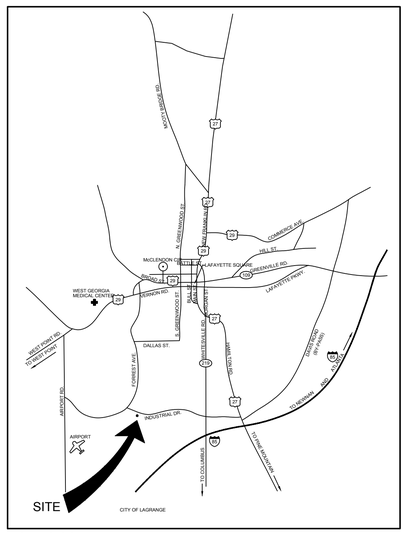
Additive Alternates:

2.2.1 Add. Alt. No. 1: Provide & install Scout Temperature Monitoring System in all burn rooms shown on the plan. See outline specification for design based on. See sheet A9-2.

2.2.2 Add. Alt. No. 2: Design based on Westec Insulation System to be installed with 2" insulation blanket on walls and ceiling and minimum of 1" insulation planet on doors and windows. See specifications on drawings. Floors of burn rooms to have 2" insulation blanket with framing system with 1/4" checkered plate sill floor. See drawings for burn rooms to receive Westec Insulation System on walls, ceiling, floors, doors, and windows. Insulated windows to be 1/2" plates on both sides.

2.2.3 **Add. Alt. No. 3:** Provide 2"x48"x24" mineral wool high temperature insulation, density #8, green, 1200°F (design based on Roxul insulation). Provide & install on all walls, ceilings, floors, doors, and windows in all burn rooms designated on the drawings. Cover with 1/4" plate steel panels, screwed to framing to minimize buckling. Insulated windows to be 1/2" plates on both sides.

2.2.4 **Add. Alt. No. 4:** Provide 0.82" X 5.5" composite deck board surface screwed to P.T. 2x8's @ 16" O.C. on steel frame for rappelling surface. P.T. 2x8 framing and composite deck boards purchase & installation. See drawings.



NOT TO SCALE

CITY OF LAGRANGE
VICINITY MAP

1900 WEST LUKKEN INDUSTRIAL DRIVE
LAGRANGE, GEORGIA

INDEX OF SHEETS

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

REVISIONS

	DATE	DESCRIPTION
1		

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
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LAGRANGE, GEORGIA

TITLE:

INDEX OF SHEETS

ABBREVIATIONS
LEGENDS

MODIFIED DATE:

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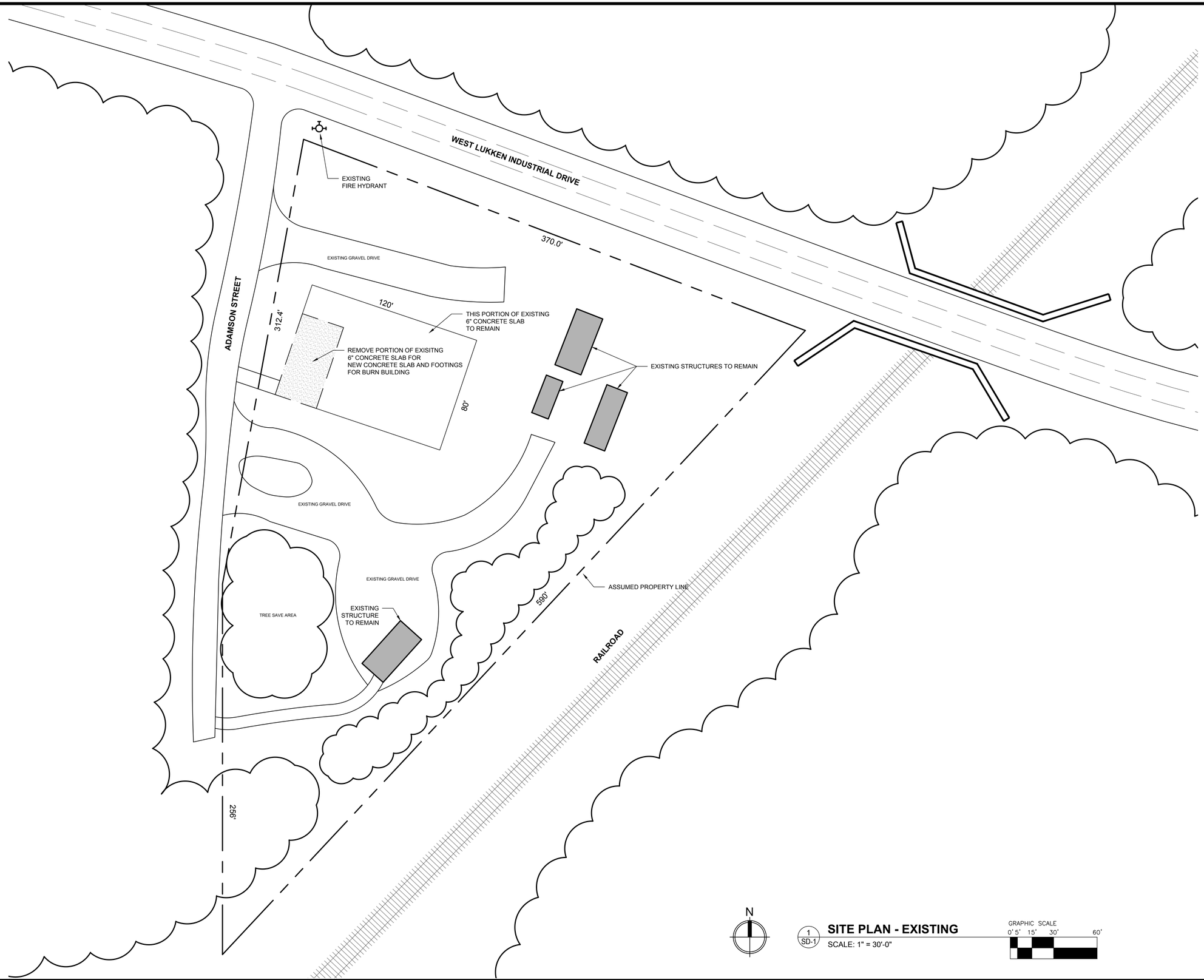
26 FEB 2018

JOB NO:
1730

SHEET:
G-2



1 SD-1 **SITE PLAN - EXISTING**

SCALE: 1" = 30'-0"

GRAPHIC SCALE 0' 5' 15' 30' 60'

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA · GORDON M. SMITH, JR. · 7575 · LaGrange, Georgia · REGISTERED ARCHITECT

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BURN BUILDING

TITLE:

SITE PLAN - EXISTING

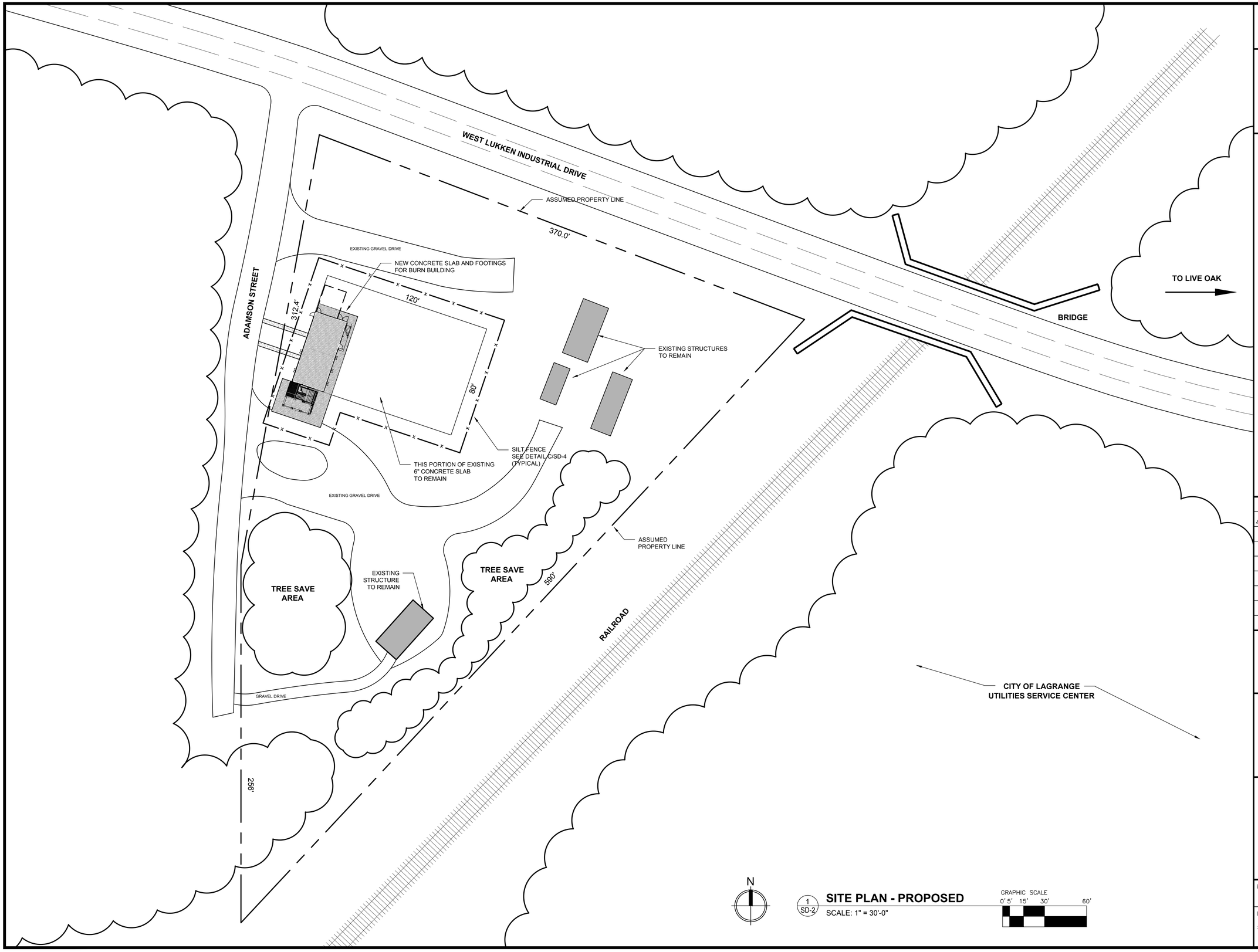
MODIFIED DATE:

ISSUED DATE:

SCHEMATIC DESIGN
26 FEB 2018

JOB NO:
1730

SHEET:
SD-1



1 SD-2 **SITE PLAN - PROPOSED**

SCALE: 1" = 30'-0"

GRAPHIC SCALE 0' 5' 15' 30' 60'

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA · GORDON M. SMITH, JR. · 7575 · LaGrange, Georgia · REGISTERED ARCHITECT

SIGNATURE REQUIRED

LEGEND

SB — 15' FOOT SOIL BORING

REVISIONS

	DATE	DESCRIPTION

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
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PH: 706-882-5511
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PROJECT:

BURN BUILDING

TITLE:

SITE PLAN - PROPOSED

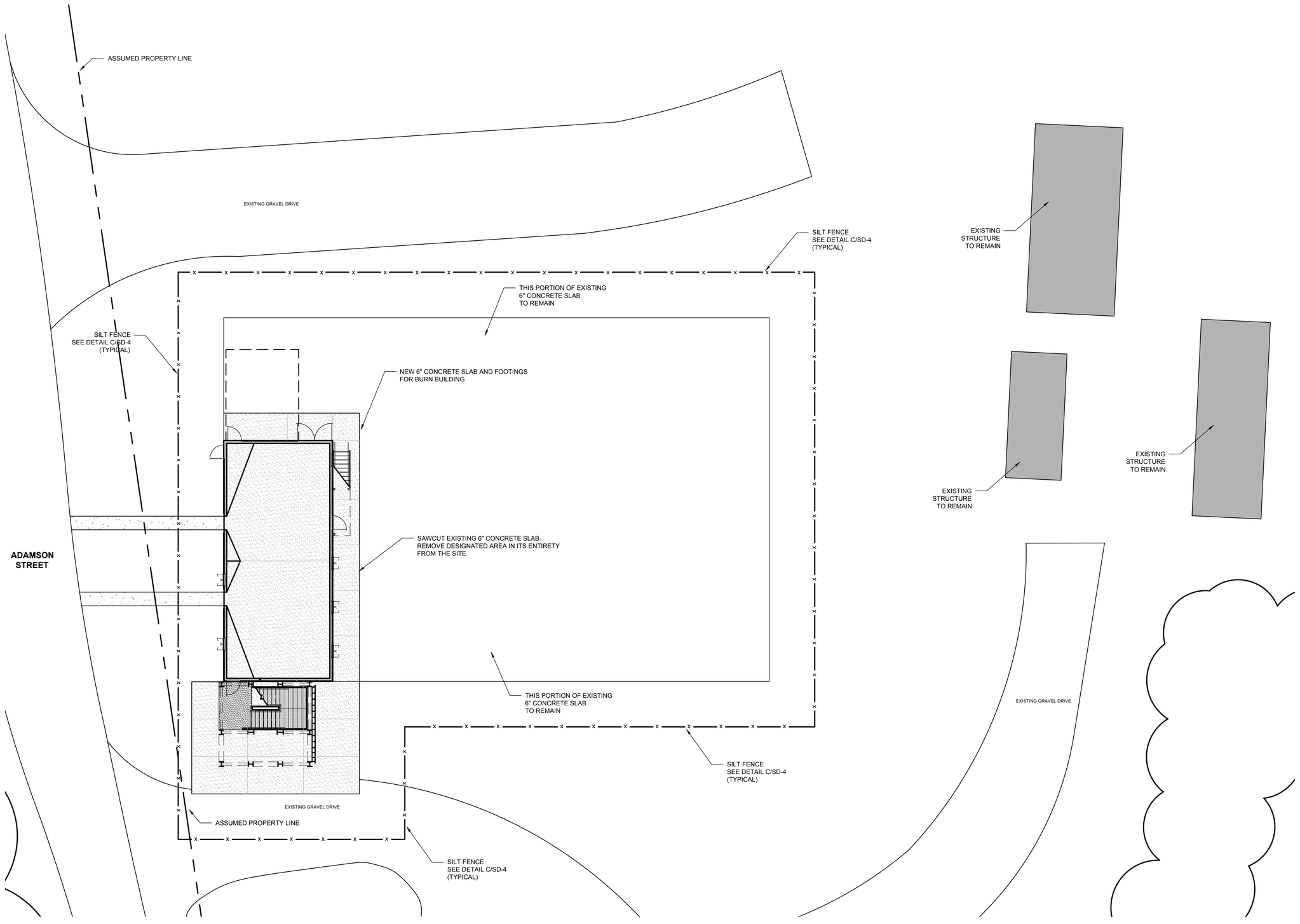
MODIFIED DATE:

ISSUED DATE:

SCHEMATIC DESIGN
26 FEB 2018

JOB NO:
1730

SHEET:
SD-2



1 SD-3 **PARTIAL SITE PLAN - PROPOSED**

SCALE: 1" = 10'-0"

GRAPHIC SCALE 0' 2' 5' 10' 20'

SET NO:

ARCHITECT'S STAMP

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SIGNATURE REQUIRED

REVISIONS

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PARTIAL SITE PLAN - PROPOSED

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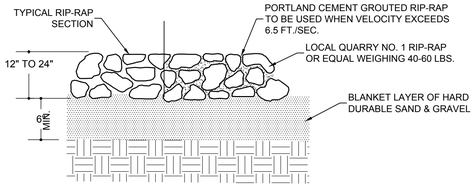
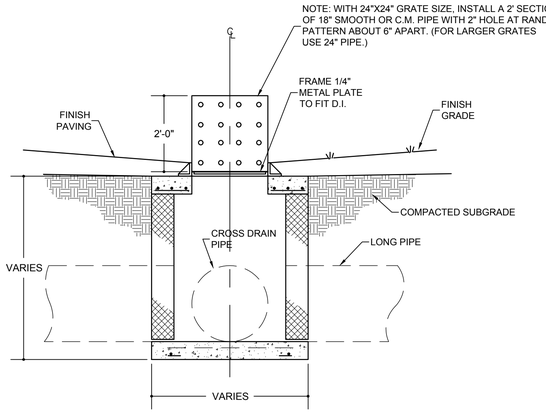
SHEET:
SD-3

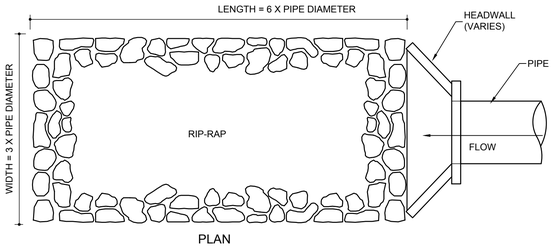


SECTION

TYPICAL RIP-RAP SECTION

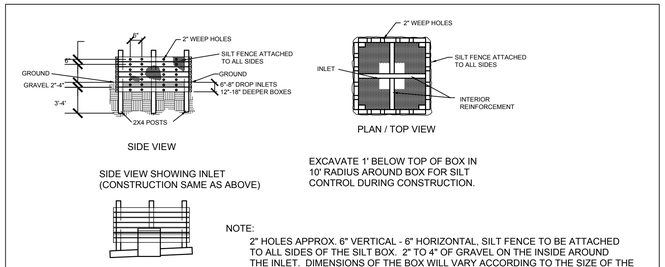


SILT GRATE FOR DROP INLETS



PLAN

RIP-RAP PLACEMENT DETAIL



NOTE:
2" HOLES APPROX. 6" VERTICAL - 6" HORIZONTAL, SILT FENCE TO BE ATTACHED TO ALL SIDES OF THE SILT BOX. 2" TO 4" OF GRAVEL ON THE INSIDE AROUND THE INLET. DIMENSIONS OF THE BOX WILL VARY ACCORDING TO THE SIZE OF THE INLET AND DEPTH OF BASIN. BOX TO BE MADE OF BOARDS SPACED 1" TO 2" APART (BOX CAN BE MADE OUT OF PLYWOOD.)

SEDIMENT TRAP BOX

NOTE: "RIP-RAP"

#1 RIP-RAP IS LARGE STONE HAVING A WEIGHT OF APPROXIMATELY 40 TO 60 LBS., THIS MATERIAL WILL SUFFICE TO VELOCITIES UP TO 6 FEET PER SECOND. TO MEET WEIGHT CRITERIA FOR HIGHER VELOCITIES RIP-RAP SHOULD BE GROUTED. FOR VELOCITIES FROM 6.5 TO 10 FT./SEC. A 12" DOUBLE LAYER OF GROUTED RIP-RAP SHOULD BE USED. FROM 10 TO 15 FT./SEC. A 18" TRIPLE LAYER OF RIP-RAP SHOULD BE USED. DIMENSIONS OF THIS BLANKET ARE TO BE 6 TIMES THE PIPE DIAMETER FOR THE LENGTH AND AT LEAST 3 TIMES THE DIAMETER FOR THE WIDTH, THIS WIDTH SHOULD BE UP THE SIDES OF THE SECTION AND SHOULD ACCOMMODATE THE 10 YEAR STORM LEVEL.

GRADED RIP-RAP STONE

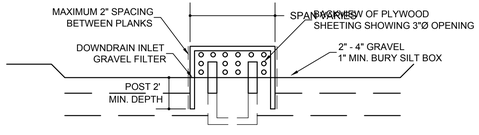
D.O.T. NO.	SIZE INCHES (sq. opening) MAX.	AVG.	MIN.	COMMON USES
TYPE 3	12	9	5	CREEK BANKS PIPE OUTLETS LAKES & SHORELINES RIVERS
TYPE 1	24	12	7	

Georgia Department of Transportation

FILTER BEDDING STONE

D.O.T. NO.	NOMINAL SIZES (inches)
3	2" - 1"
4	1 1/2" - 3/4"
5	1" - 1/2"
6	3/4" - 3/8"
57	1" - NO. 4

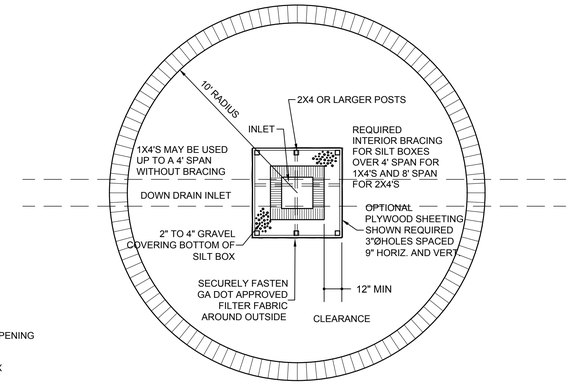
Georgia Department of Transportation



PROFILE
NO SCALE

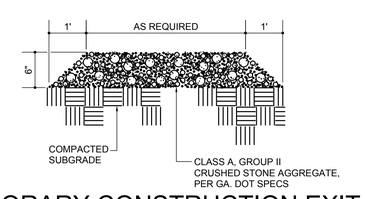
DIMENSIONS SHOWN ARE MINIMUMS ACTUAL SIZE OF BOX WILL VARY ACCORDING TO SIZE OF INLET

TEMPORARY SEDIMENT TRAP

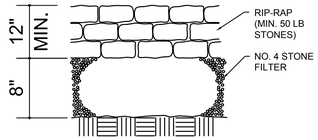


PLAN

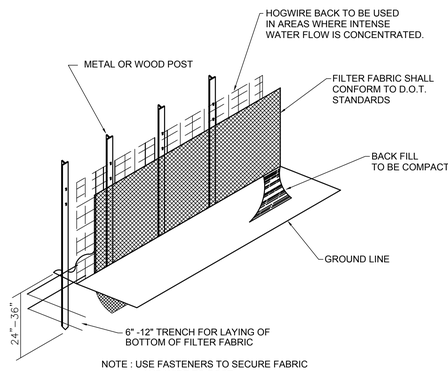
NO SCALE



TEMPORARY CONSTRUCTION EXIT



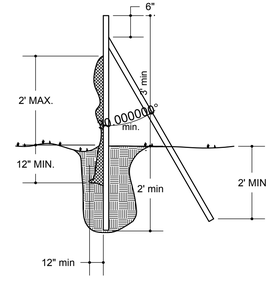
RIP RAP DETAIL



NOTE : USE FASTENERS TO SECURE FABRIC AND WIRE TO POST

SILT FENCE DETAIL

C
SD-4



D
SD-4

SILT FENCE BRACING DETAIL

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO AND CONCURRENT WITH LAND DISTURBING ACTIVITIES.

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

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REVISIONS

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SITE DETAILS

MODIFIED DATE:

ISSUED DATE:
SCHEMATIC DESIGN
26 FEB 2018

JOB NO:
1730

SHEET:
SD-4

PROJECT DESCRIPTION

This project site is approximately 2.49 acres of a total site acreage.
Approximately 0.3 acres will be developed for a Burn Building for Fire Fighter training.

VEGETATION:

The site is presently paved. Topsoil will be stockpiled, and spread on areas to be vegetated. Trees outside the clearing limits will be protected from damage by appropriate markings. Supplemental vegetation will be established.

EROSION CONTROL PROGRAM:

Clearing will be kept to an absolute minimum. Vegetation and mulch will be applied to applicable areas immediately after grading is completed. Gravel will be applied to roadways as soon as grading is completed. Land disturbing activities will be scheduled to limit exposure of bare soils to erosive elements. Storm water management structures will be used to prevent erosion in areas of concentrated water flows. Erosion at the exits of all storm water structures will be prevented by the installation of storm drain outlet protection devices. Approximately 0.30 acres are to be disturbed as part of this project.

SEDIMENT CONTROL PROGRAM:

Sediment control will be accomplished by the installation of approximately 300 linear feet of silt fence.

STANDARDS AND SPECIFICATIONS:

All designs will conform to and all work will be performed in accordance with the 2003 EPA Construction General Permit and specific Sediment Control in Georgia, as well as all local ordinances.

SAFETY PROTECTION:

Construction activities will be performed in compliance with all applicable laws, rules, and regulations.

MAINTENANCE PROGRAM:

Sediment and erosion control measures will be inspected daily, and any damages observed will be repaired by the end of that day. Clean out of sediment control structures will be accomplished in accordance with the specifications and sediment disposal will be accomplished by spreading on the site. Sediment barriers will remain in place until sediment contributing areas are stabilized. Silt fences and other barriers will then be removed and the areas occupied by these structures planted. Guidelines for the maintenance of established vegetation will be provided to the owner when all disturbed areas are stabilized.

GENERAL NOTES:

1. All work performed shall be in accordance with all applicable standards, specifications and practices as established by the local governing agency and City of LaGrange, County of Troup, State of Georgia.
2. The Contractor shall meet all applicable Federal, State, and local codes, laws, regulations, and requirements.
3. The Contractor is responsible for obtaining and maintaining all permit requirements. Prior to starting construction the general contractor shall be responsible to verify that all required permits and approvals have been obtained. No construction or fabrication of any item shall begin until the contractor has received all plans and any other documentation from all of the permitting and other authorities. Failure of the contractor to follow this procedure constitutes his financial responsibility for any subsequent modification of the work mandated by any regulatory authority.
4. The general contractor shall be responsible for on site mulching of all existing vegetation and demolition of structures necessary to develop the site. The general contractor shall remove and recycle all trash and debris from the site upon completion of the project.
5. Dimensions, building location and grading of this site are based on available information at the time layout. Deviations may be necessary in the field. Any such changes or conflicts between this plan and the field conditions are to be reported to the Architect in writing prior to starting construction.
6. Do not scale from drawings.
7. Contractor shall be responsible for verification of all property lines, setbacks and/or easements before beginning construction on all buildings and canopies.
8. All new side slopes shall not exceed 1' vertical to 3' horizontal.
9. All slopes are to be stabilized at earliest practical time.
10. All areas shall be graded to provide positive drainage - into appropriate drainage inlets - and away from proposed building structures.
11. All final grading shall be smooth and uniform.
12. All disturbed uncovered areas shall be appropriately grassed or mulched 6" after topsoil is re-spread.
13. All pavement surfaces that are to be removed, both concrete and asphalt, shall be saw cut in a straight line before pavement is removed.
14. All building and painting subgrade areas shall be compacted in 8" layers to 95% of the maximum dry density at optimum moisture content as determined in accordance with ASTM D-1557 current edition.
15. Commercial driveways are to be constructed in accordance with applicable standard regulations, standards and specifications of the City, County, or State Department of Transportation.
16. For all paved surfaces, the following grades shall be maintained: 10% maximum and 1.5% minimum.

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

1. THE AREA TO BE DISTURBED ON THIS PROJECT IS APPROXIMATELY 0.30 ACRES.
2. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION DUE TO CONDITIONS NOT SHOWN ON PLANS.
3. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES MAY RESULT IN CONSTRUCTION BEING HALTED.
4. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND FOLLOWING RAINFALL AND REPAIRED BY CONTRACTOR OR OWNER.
5. ALL SILT FENCING SHALL COMPLY WITH DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE A LETTER OF WARRANTY THAT MATERIALS MEET THESE SPECIFICATIONS AND THAT THE FABRIC IS ON THE D.O.T. QUALIFIED PRODUCTS LIST (QPL) #36.
6. TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION SHALL BE PROVIDED WITHIN TWO WEEKS OF REACHING FINAL GRADE.
7. STORM DRAIN SYSTEMS SHALL BE MAINTAINED CLEAN AND FREE OF SILT AND DEBRIS.
8. A RESPONSE TO A NOTIFICATION OF NON-COMPLIANCE OR INADEQUATE MEASURES SHALL BE MADE WITHIN 3 WORKING DAYS AFTER RECEIVING SUCH NOTIFICATION.
9. PERMANENT VEGETATION SHALL BE PROVIDED AT THE EARLIEST SUITABLE GROWING SEASON.
10. CONSTRUCTION BEGIN DATE IS (VERIFY WITH OWNER).
11. CONSTRUCTION COMPLETION DATE IS (VERIFY WITH OWNER).
12. IMPLEMENTATION AND MAINTENANCE:
    A. IMPLEMENTATION: NOTIFY THE DEPARTMENT OF ENGINEERING 24 HOURS PRIOR TO COMMENCING WORK.
        1. NO CLEARING, GRADING, FILLING, OR OTHER LAND DISTURBING ACTIVITIES SHALL BE PERMITTED UNTIL APPROVED EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
        2. THESE EROSION AND SEDIMENT CONTROL MEASURES SHALL APPLY TO ALL FEATURES OF THE CONSTRUCTION SITE INCLUDING BUT NOT LIMITED TO STREET AND UTILITY INSTALLATIONS AS WELL AS TO THE PROTECTION OF INDIVIDUAL LOTS.
    B. MAINTENANCE: ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUOUSLY MAINTAINED BY THE CONTRACTOR OR PERMITEE DURING THE CONSTRUCTION PHASE OF THE DEVELOPMENT AND UNTIL PERMANENT STABILIZATION OF DITCHES, SHOULDERS, SLOPES AND ALL DISTURBED AREAS IS ACCOMPLISHED TO ELIMINATE THE NEED FOR THE TEMPORARY CONTROL MEASURES WHICH SHALL THEN BE REMOVED BY SAME.

CONSTRUCTION SCHEDULE

2018											
JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
			A								
			B								
			C	C							
				D							
				E							
					F	F	F				

A. CLEARING AND GRUBBING
B. SEDIMENT CONTROL MEASURES & INSTALLATION OF SILT FENCE
C. ROUGH GRADING OF THE SITE
D. TEMPORARY & PERMANENT VEGETATION OUTSIDE BUILDING AREA
E. INSTALLATION OF STORM SEWER & EROSION CONTROL STRUCTURE
F. BUILDING CONSTRUCTION

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

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⚠	DATE	DESCRIPTION

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING

TITLE:

SITE DETAILS

MODIFIED DATE:

ISSUED DATE:
SCHEMATIC DESIGN
26 FEB 2018

JOB NO:
1730

SHEET:
SD-5

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

1. The area to be disturbed on this project is 0.30 ACRES.
2. Additional erosion and sediment control measures shall be installed if deemed necessary by site inspection due to conditions not shown on plans.
3. Failure to properly install and maintain erosion control practices may result in construction being halted.
4. Erosion control measures will be inspected at least weekly and following rainfall and repaired by contractor.
5. All silt fences shall comply with Georgia Department of Transportation standards and specifications. Contractor shall provide a letter of warranty that materials meet these specifications and that the fabric is on the DOT qualified list (QPL) #36.
6. Temporary or permanent vegetative stabilization shall be provided within two weeks of reaching final grade.
7. Storm drain systems shall be maintained clean and free of silt and debris.
8. A response to a notification of Non-Compliance or inadequate measures shall be made within 3 working days after receiving such notification.

12. Construction begin date is (VERIFY WITH OWNER)
13. Construction completion date is (VERIFY WITH OWNER)
14. IMPLEMENTATION AND MAINTENANCE:
   A. IMPLEMENTATION: Notify the Department of Engineering 24 hours prior to commencing work.
      1.) No clearing, grading, filling or other land disturbing activities shall be permitted until approved erosion and sediment control measures have been installed, except those operations needed to install such measures.
      2.) These erosion and sediment control measures shall apply to all features of the construction site, including, but not limited to, street and utility installations as well as to the protection of individual lots.
   B. MAINTENANCE: All erosion and sediment control measures shall be continuously maintained by the contractor or owner during the construction phase of the development and until permanent stabilization of ditches, shoulders, slopes and all disturbed areas is accomplished to eliminate the need for the temporary control measures which shall then be removed by same.
   C. To facilitate acceptance of the streets and improvements prior to establishment of such permanent stabilization, a specific bond in the amount of a specific for the cost of maintaining the temporary control measures, including temporary grassing and establishing the permanent stabilization within a reasonable time relative to the growing season shall be provided with the request for acceptance.
   D. If full implementation of the approved plan does not provide for effective erosion control, additional erosion control measures shall be implemented to control or treat the sediment source.

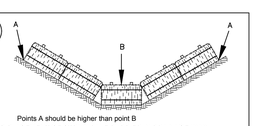
PERMANENT GRASSING SPECIFICATIONS
MARCH 1 TO JUNE 30
BERMUDA, COMMON (HULLED) - 10 LBS/AC
OR
APRIL 1 TO JUNE 30
CENTIPEDE - BLOCK SOD ONLY

TEMPORARY SEEDING SPECIFICATIONS
AUGUST 1 TO APRIL 15
RYEGRASS, ANNUAL - 40 LBS/AC
OR
AUGUST 15 TO DECEMBER 30
RYE - 3 BU/AC
OR
APRIL 15 TO AUGUST 31
MILLET, PEARL - 50 LBS/AC

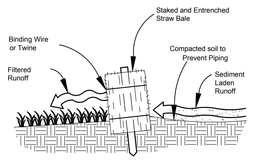
SPECIES	YEAR	ANALYSIS OR EQUIVALENT N–P–K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST SECOND MAINT	6–12–12 6–12–12 10–10–10	1500 lbs/AC 1000 lbs/AC 400 lbs/AC	50–100 LBS/AC 1/2/ – 30 LBS/AC
2. COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINT	6–12–12 0–10–10 0–10–10	1500 lbs/AC 1000 lbs/AC 400 lbs/AC	0–50 LBS/AC 1/ – –
3. GROUND COVERS	FIRST SECOND MAINT	10–10–10 10–10–10 10–10–10	1300 lbs/AC 1300 lbs/AC 1100 lbs/AC	– – –
4. PINE SEEDLINGS	FIRST	20–10–15	one 21 gram pellet per seedling placed in the closing hole	–
5. SHRUB LEEPEDEZA	FIRST MAINT	0–10–10 0–10–10	700 lbs/AC 700 lbs/AC	–
6. TEMP COVER CROP SEEDED DONE	FIRST	10–10–10	500 lbs/AC	30 LBS/AC 5/
7. WARM SEASON GRASSES	FIRST SECOND MAINT	6–12–12 6–12–12 10–10–10	1500 lbs/AC 800 lbs/AC 400 lbs/AC	50–100 LBS/AC 2/6/ 50–100 LBS/AC 2/ 30 LBS/AC
8. WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINT	6–12–12 0–10–10 0–10–10	1500 lbs/AC 1000 lbs/AC 400 lbs/AC	50 LBS/AC 6/

1/ APPLY IN SPRING FOLLOWING SEEDING
2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED
3/ APPLY IN THREE SPLIT APPLICATIONS
4/ APPLY WHEN PLANTS ARE PRUNED
5/ APPLY TO GRASS SPECIES ONLY
6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES

SD1

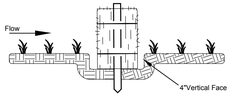


Points A should be higher than point B
PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY

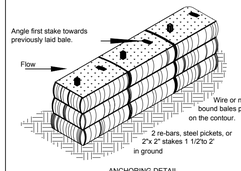


NOTE: Embed hay bales a minimum of 4".
CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

Figure 6-13.1



EMBEDDING DETAIL



ANCHORING DETAIL

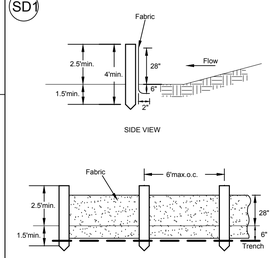
NOTE:
-Anchor and embed into soil to prevent washout or water working under barrier.
-Repair or replacement must be made promptly as needed

STAKED HAYBALE BARRIERS

NTS

Figure 6-13.2

SD1



NOTE: Use 36" D.O.T. approved fabric.
Use wood or steel posts.

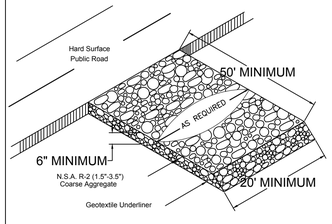
NTS

SILT FENCE-TYPE A

Figure 6-13.3

CO

CONSTRUCTION EXIT

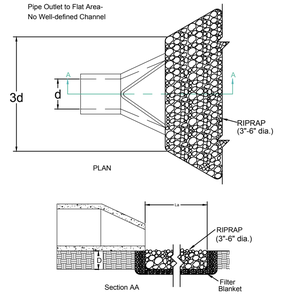


CRUSHED STONE CONSTRUCTION EXIT

NTS

FIGURE 6-3.1

ST RIPRAP OUTLET PROTECTION

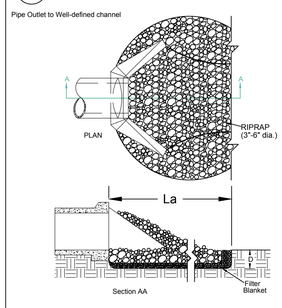


NOTES:
1. La is the length of the riprap apron.
2. D=1.5 times the maximum stone diameter but not less than 6".
3. In a well-defined channel extend the apron up the channel banks to an elevation of 6" above the maximum tailwater depth or to the top of the bank, whichever is less.
4. A filter blanket or filter fabric should be installed between the riprap and the soil foundation.

NTS FIGURE 6-17.1

Riprap outlet protection (modified from Va SWCC).

ST RIPRAP OUTLET PROTECTION



NOTES:
1. La is the length of the riprap apron.
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4. A filter blanket or filter fabric should be installed between the riprap and the soil foundation.

NTS FIGURE 6-17.1

Riprap outlet protection (modified from Va SWCC).

SD2

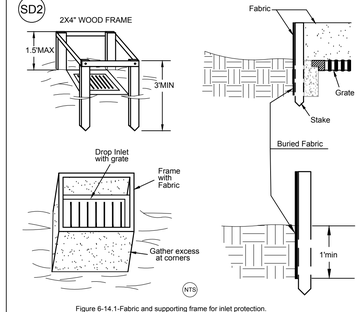

Figure 6-14.1-Fabric and supporting frame for inlet protection.

1. For stakes, use 2x4"wood (preferred) or equivalent metal with a minimum length of 3'.
2. Space stakes evenly around the perimeter of the inlet a maximum of 3'apart, and securely drive them into the ground,approximately 18" deep.
3. To provide needed stability to the installation, frame with 2x4" wood strips around the crest of the overflow area at a maximum of 1.5' above the drop inlet crest
4. Place the bottom 12" of the fabric in a trench and backfill the trench with at least 4" of crushed stone or compacted soil.
5. Fasten fabric securely to stakes and frame.Joints must be overlapped to the next stake.
6. The top of the frame and fabric must be well below the ground elevation downslope from the drop inlet to keep runoff from bypassing the inlet. It may be necessary to build a temporary dike on the down slope side of the stucture to prevent bypass flow.

GA. UNIFORM CODING SYSTEM - STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAMS			A small temporary barrier or dam constructed across a swale,drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT		Co (Label)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		Dn1 (Label)	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE		Dn2 (Label)	A paved chute, pipe, sectional conduit or similar material, temporary or permanent, designed to safely conduct surface runoff down a slope.
Ga	GABION			Rock filled baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Gr (Label)	Permanent structures installed to protect natural or artifical channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. this should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETIANING WALL		Re (Label)	A wall installed to stabilize cut and fill slopes where maximum permissable slopes are not obtainable. Each situation will require special design.
Rt	RETROFITTING		Rt (Label)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER		TYPE (Indicate type)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a sediment fence. The barriers are usually temporary and inexpensive.

CODE	PRACTICE	DETAIL	MAP SYMBOL	
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out. the basin is usually temporary but may be designed as a permanent pond or stormwater retention device.
Sr	TEMPORARY STREAM CROSSING		Sr (Label)	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORM DRAIN OUTLET PROTECTION		St	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		Su	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tp	TOPSOILING		Tp (Show Striping & Storage Areas)	The practice of stripping off the more fertile top soil, storing it, then spreading it over the disturbed area after the completion of construction activities.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

Bf	BUFFER ZONE		Bf (Label)	An undisturbed natural " green belt " separating the land-disturbed site from surrounding property and bordering streams. It serves to reduce water velocity and remove some sediment. It is also at times a noise or " vision pollution" barrier.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	Establishing a temporary vegatative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	Establishing permanent vegatative cover such as trees, shrubs, vines, grasses,sod, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction sites, roadways and similar sites.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA · GORDON M. SMITH JR. · 7575 · LaGrange, Georgia · REGISTERED ARCHITECT

SIGNATURE REQUIRED

REVISIONS

	DATE	DESCRIPTION
1		

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

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BURN BUILDING

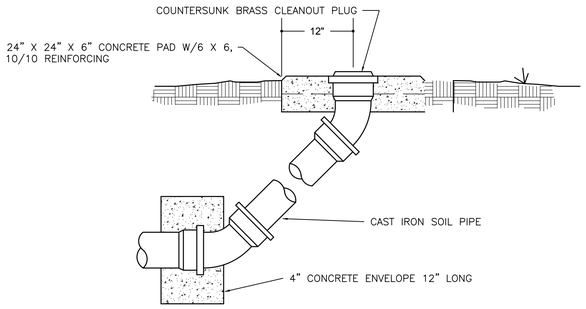
TITLE:
SITE DETAILS

MODIFIED DATE:

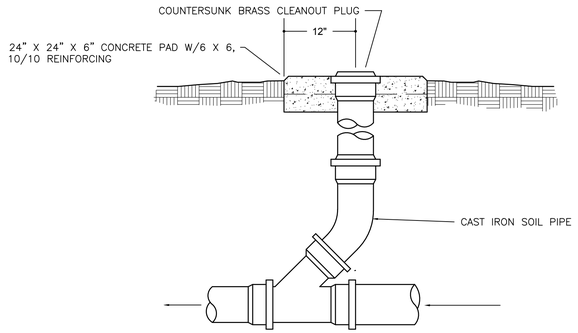
ISSUED DATE:
SCHEMATIC DESIGN
26 FEB 2018

JOB NO:
1730

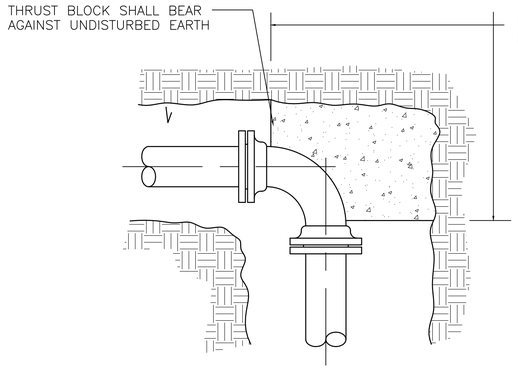
SHEET:
SD-6



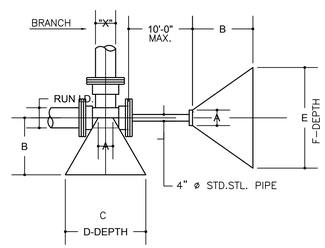
1 / SD-7 CLEANOUT AT END OF LINE
NOT TO SCALE



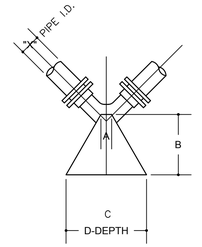
2 / SD-7 CLEANOUT UP TO GRADE
NOT TO SCALE



3 / SD-7 WATER MAIN ANCHOR DETAIL
NOT TO SCALE

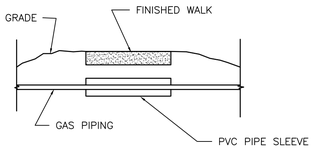


BLOCKING DIMENSIONS							
TEES							
	"X"	A	B	C	D	E	F
12"	12"	1'–0"	3'–0"	4'–6"	3'–0"	4'–6"	3'–0"
	10"	1'–0"	3'–0"	4'–0"	2'–6"	4'–6"	3'–0"
	8"	1'–0"	3'–0"	3'–3"	2'–0"	4'–6"	3'–0"
	6"	1'–0"	3'–0"	2'–6"	1'–6"	4'–6"	3'–0"
	4"	1'–0"	3'–0"	1'–9"	1'–0"	4'–6"	3'–0"
10"	10"	1'–0"	2'–6"	4'–0"	2'–6"	4'–0"	2'–6"
	8"	1'–0"	2'–6"	3'–3"	2'–0"	4'–0"	2'–6"
	6"	1'–0"	2'–6"	2'–6"	1'–6"	4'–0"	2'–6"
	4"	1'–0"	2'–6"	1'–9"	1'–0"	4'–0"	2'–6"
8"	8"	0'–10"	2'–3"	3'–3"	2'–0"	3'–3'	2'–0"
	6"	0'–10"	2'–3"	2'–6"	1'–6"	3'–3'	2'–0"
	4"	0'–10"	2'–3"	1'–9"	1'–0"	3'–3'	2'–0"
6"	6"	0'–8"	1'–6"	2'–6"	1'–6"	2'–6"	1'–6"
	4"	0'–8"	1'–6"	1'–9"	1'–0"	2'–6"	1'–6"
4"	4"	0'–6"	1'–0"	1'–9"	1'–0"	1'–9"	1'–0"

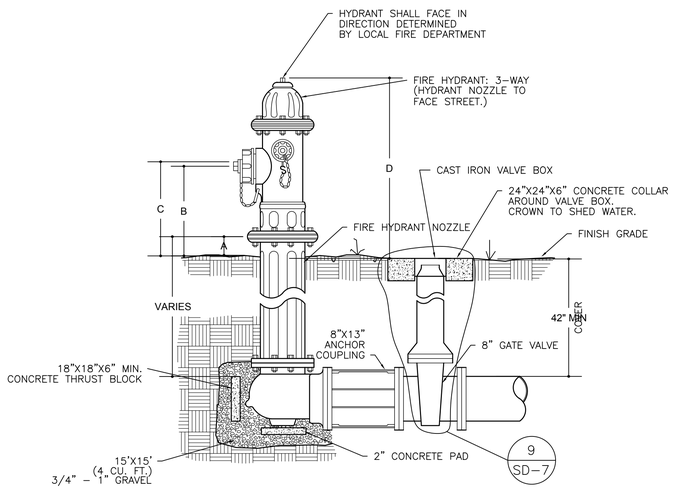


BLOCKING DIMENSIONS					
TEES					
	"X"	A	B	C	D
90° BEND	12"	12"	4'–3"	6'–0"	3'–3"
	10"	12"	3'–6"	5'–0"	2'–9"
	8"	10"	2'–9"	4'–0"	2'–3"
	6"	8"	2'–0"	3'–0"	1'–9"
	4"	6"	1'–9"	2'–6"	1'–0"
45° BEND	12"	12"	2'–9"	4'–3"	2'–6"
	10"	12"	1'–9"	3'–0"	2'–6"
	8"	10'	1'–6"	2'–6"	2'–0"
	6"	8"	1'–3'	2'–0"	1'–6"
	4"	6"	1'–3"	2'–0"	0'–9"
22–1/2° BEND	12"	12"	1'–9"	3'–0"	1'–9"
	10"	12"	1'–4"	2'–6"	1'–6"
	8"	10"	1'–0"	2'–0"	1'–3"
	6"	8"	0'–9"	1'–6"	1'–0"
	4"	6"	0'–9"	1'–0"	0'–9"

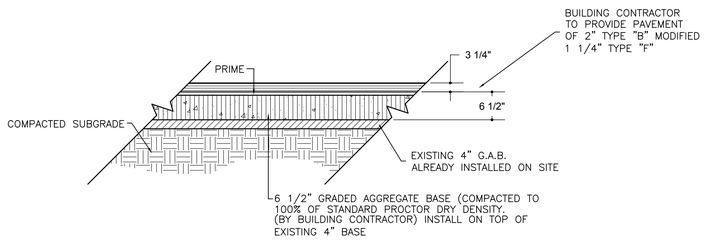
4 / SD-7



5 / SD-7 GAS PIPING UNDER WALK
NOT TO SCALE

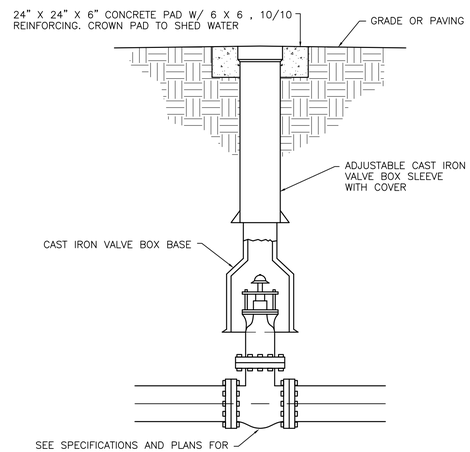


7 / SD-7 FIRE HYDRANT (PROVIDED AND INSTALLED BY CITY OF LAGRANGE)
NOT TO SCALE



8 / SD-6 BASE AND PAVING DETAIL (NOT USED)
PATCHING DETAIL

FIRE HYDRANT				
DIMENSION DATA				
SIZE HYDRANT	A	B	C	D
4 1/4"	1 5/8"	16 3/4"	21 1/4"	35 1/8"
4 1/2"	1 5/8"	16 3/4"	21 1/4"	35 1/8"
5 1/4"	1 5/8"	18"	23"	38 1/8"
6 1/4"	2 1/8"	18 3/4"	23 3/4"	40 1/4"



9 / SD-7 VALVE BOX DETAIL
NOT TO SCALE

SET NO:

ARCHITECT'S STAMP
STATE OF GEORGIA · GORDON M. SMITH, JR. · 7575 · LaGrange, Georgia · REGISTERED ARCHITECT
SIGNATURE REQUIRED

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1730

SHEET:
SD-7

DRAIN INLET DIMENSIONS

I.D. OF PIPE (INCHES)	H (MINIMUM)	NORMAL WIDTH		SKEWED WIDTH									
				20°		30°		45°		60°		75°	
		W	W_1	W	W_1	W	W_1	W	W_1	W	W_1	W	W_1
≤12	4'-4"	3'-0"	3'-0"	6'-0"	6'-0"	4'-0"	4'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"
15	4'-7"	3'-0"	3'-0"	6'-8"	6'-8"	4'-6"	4'-6"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"
18	4'-10"	3'-0"	3'-0"	7'-5"	7'-5"	5'-0"	5'-0"	3'-5"	3'-5"	3'-0"	3'-0"	3'-0"	3'-0"
24	5'-6"	3'-0"	3'-0"			6'-6"	6'-6"	4'-6"	4'-6"	3'-3"	3'-3"	3'-0"	3'-0"
30	6'-2"	3'-7"	3'-7"			7'-8"	7'-8"	5'-3"	5'-3"	4'-2"	4'-2"	3'-7"	3'-7"
36	6'-10"	5'-0"	5'-0"			8'-10"	8'-10"	6'-1"	6'-1"	5'-0"	5'-0"	5'-0"	5'-0"
42	7'-4"	5'-6"	5'-6"			10'-0"	10'-0"	6'-11"	6'-11"	5'-6"	5'-6"	5'-6"	5'-6"
48	8'-0"	6'-2"	6'-2"			11'-2"	11'-2"	7'-9"	7'-9"	6'-2"	6'-2"	6'-2"	6'-2"
54	8'-6"	6'-8"	6'-8"			12'-4"	12'-4"	8'-7"	8'-7"	6'-10"	6'-10"	6'-8"	6'-8"
60	9'-2"	7'-4"	7'-4"			13'-6"	13'-6"	9'-5"	9'-5"	7'-6"	7'-6"	7'-4"	7'-4"

NOTES:

1. THE MINIMUM "H" SHOWN APPLIES WHERE DEPTH OF PAVEMENT IS 12" OR LESS.
2. MINIMUM "H" WILL BE CONTROLLED BY THE SIZE OF THE LARGEST CONNECTING PIPE.
3. IT IS NOT NECESSARY THAT BOX ENCLOSURES BE CONSTRUCTED SQUARE. W & W_1 WILL VARY ACCORDING TO PIPE SIZE.

DRAIN INLET WALLS

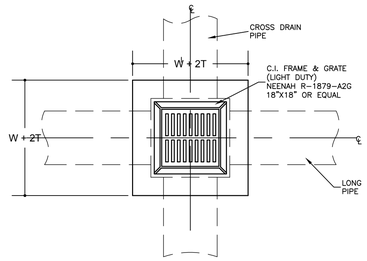
DEPTH	T (MINIMUM)
0' TO 10'	8"
10' TO 20'	12"
20' TO 30'	16"

DRAIN INLET BOTTOMS

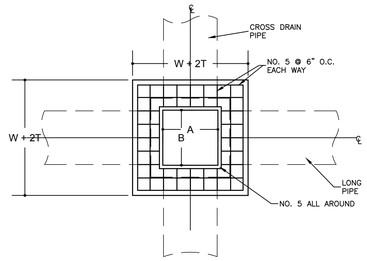
W & W_1	Y
3'-0" THRU 4'-6"	6" NON-REINFORCED
4'-7" THRU 7'-9"	10" NON-REINFORCED
7'-10" THRU 13'-6"	12" NON-REINFORCED

SCHEDULE OF DRAIN INLETS

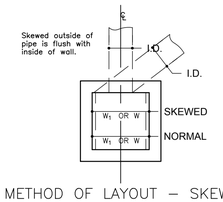
D.I. NUMBER	DETERMINING PIPE SIZE	GRATE SIZE		ELEVATIONS	
		A	B	RIM	BOTTOM
1		24"	24"		
2		24"	24"		
3		24"	24"		



PLAN – DRAIN INLET

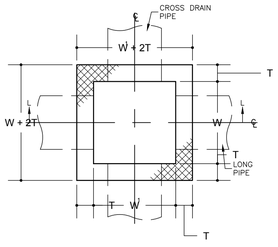


PLAN – TOP SLAB BOTTOM REINFORCING – DRAIN INLET

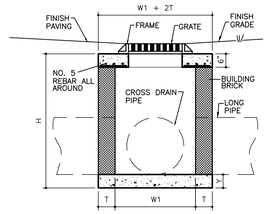


METHOD OF LAYOUT – SKEWED PIPE

NOTE:
The dimensions for the skewed width as shown in the table are for 8" wall. If 12" or 16" wall is required the dimensions for the skewed width will be in accordance with the above layout. Minimum W or W^1 dimension is to be used according to the size of the long or cross drain pipe.



SECTION K-K



SD-8 DRAIN INLET DETAIL

1/SD-8 DRAIN INLET DETAILS

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

REVISIONS

	DATE	DESCRIPTION

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:
BURN BUILDING

TITLE:
SITE DETAILS

MODIFIED DATE:

ISSUED DATE:
SCHEMATIC DESIGN
26 FEB 2018

JOB NO:
1730

SHEET:
SD-8

CONSTRUCTION NOTES

CONTAINER FABRICATION NOTES

1. CONTAINERS USED SHALL BE ISO COMPLIANT, AND SHALL HAVE NO MORE THAN MINOR SURFACE RUST. IT IS RECOMMENDED THAT THE CONTAINERS BE INSPECTED BY THE ENGINEER OR OTHER QUALIFIED AGENT PRIOR TO FABRICATION. CONTAINERS SHALL BE CLASSIFIED BY THE CONVENTION FOR SAFE CONTAINERS (CSC) AS 'CARGO WORTHY GRADE A'. THE FABRICATED CONTAINER MUST BE INSPECTED AND CERTIFIED BY AN THIRD PARTY INSPECTOR APPROVED BY THE GEORGIA DEPARTMENT OF COMMUNITY AFFAIRS.
2. CUTTING OF THE CONTAINER SIDES SHALL BE WITH A PLASMA TORCH. ACETYLENE TORCHES ARE NOT ACCEPTABLE.
3. ALL WELDS SHALL BE WITH AN E70XX ELECTRODE AND SHALL BE $\frac{3}{16}$" UNLESS OTHERWISE NOTED.
4. WELDING SHALL BE IN ACCORDANCE WITH AWS STANDARDS.
5. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL NECESSARY SHORING AND BRACING OF THE CONTAINERS DURING TRANSPORT AND ERECTION.

DESIGN CRITERIA

LOADS:

1. ROOF: LIVE LOAD = 20 PSF
   DEAD LOAD = 10 PSF
   SNOW LOAD = 40 PSF ROOF DECK LOAD = 50 PSF

2. FLOORS: LIVE LOAD = 50 PSF
   DEAD LOAD = 10 PSF
   PARTITION LOAD = 100 PLF

3. STAIRS AND LANDINGS = 100 PSF

4. WIND LOADS:
   CALCULATED WIND DESIGN IS DONE UNDER THE 2012
   INTERNATIONAL BUILDING CODE USING 115 MPH (3 SEC GUST)
   EXPOSURE "B", IMPORTANCE FACTOR I = 1.0. USING ASCE 7-10.

5. SEISMIC DESIGN:
   Ss: 0.150
   S1: 0.081
   SITE CLASS D
   SOURCE: ASCE/USGS DESIGN MAPS

DEFLECTION:

1. ROOFS: L/180

2. FLOORS: L/480

GOVERNING CODE AND DESIGN METHODOLOGY

1. 2012 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS

3. AMERICAN CONCRETE ASSOCIATION ACI 318

4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, 14TH EDITION, LOAD RESISTANCE FACTOR DESIGN.

5. AMERICAN IRON AND STEEL INSITUTE, AISI S100-2007, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.

PREFABRICATED WOOD TRUSS NOTES

1. TRUSSES SHALL BE SPACED AS SHOWN ON PLANS.
2. SEE PLANS FOR TRUSS LOCATIONS AND SPANS.
3. ACTUAL TRUSS SPACING SHALL BE USED TO DETERMINE UNIFORM LOADS PER FOOT.
4. TRUSSES SHALL BE DESIGNED AND FABRICATED BY THE TRUSS MANUFACTURER.
5. DESIGN SHALL CARRY THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF GEORGIA.
6. CONFIGURATIONS AND SIZE OF WEB MEMBERS SHALL BE DETERMINED BY THE TRUSS MANUFACTURER.
7. SHOP DRAWINGS AND CALCULATIONS FOR TRUSSES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
8. TOP CHORD DEAD LOAD SHOWN ABOVE INCLUDES 3 PSF FOR TRUSS SELF WEIGHT.
9. MAXIMUM LIVE LOAD DEFLECTION FOR ROOF TRUSSES = L/240.
10. LOADS ABOVE SHALL BE UTILIZED IN THE DESIGN OF GIRDER TRUSSES AND LAMINATED BEAMS, AS REQUIRED.
11. PERMANENT BRACING OF ROOF TRUSSES, AS REQUIRED BY STRUCTURAL DESIGN OF THE TRUSSES, AND PERMANENT BRACING AS REQUIRED FOR STABILITY OF THE TRUSS SYSTEM UNDER ALL GRAVITY AND LATERAL LOADINGS, SHALL BE INDICATED AND FULLY DETAILED ON THE SHOP DRAWINGS.
12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR THE TRUSSES DURING ERECTION. IN ACCORDANCE WITH TRUSS PLATE INSTITUTES "HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91".
13. TRUSS DESIGN SHALL ACCOUNT FOR LOAD IMPOSED UPON TRUSSES BY WEIGHT OF MECHANICAL UNITS, AS SHOWN ON MECHANICAL DRAWINGS.
14. ALL PRE-ENGINEERED TRUSS SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE, STAMPED REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
15. ALL HARDWARE (BOLTS, HANGERS, STRAPS, ETC.) REQUIRED FOR CONNECTIONS BETWEEN PRE-ENGINEERED TRUSSES SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS DESIGN ENGINEER.

SOIL

1. FOR DESIGN PURPOSES, THE SOIL IS ASSUMED TO HAVE A BEARING CAPACITY OF 2000 PSF. BECAUSE OF THE POSSIBILITY OF EXPANSIVE SOILS, IT IS RECOMMENDED THAT A GEOTECHNICAL ENGINEER EVALUATION THE SOILS BEFORE POURING THE FOUNDATIONS.

2. THE FOUNDATION EXCAVATION SHALL BE IN NATURAL SOIL. FILL MATERIAL, TRASH, TOPSOIL, BURIED TREES AND LIMBS, AND DELETERIOUS MATERIAL IS FORBIDDEN.

3. IN THE EVENT THAT UNSUITABLE MATERIAL IS ENCOUNTERED, THE STRUCTURAL ENGINEER IS TO BE NOTIFIED.

4. THE FOUNDATION WILL NOT BE POURED ON PIERS WITHOUT FIRST CONSULTING THE STRUCTURAL ENGINEER. CONCRETE AUGER PIERS DEEPER THAN 5' WILL NOT BE ALLOWED BY THE STRUCTURAL ENGINEER UNDER ANY CIRCUMSTANCES. PIERS THAT MUST BE DEEPER THAN 5' WILL ONLY BE STEEL HELICAL PIERS AS MANUFACTURED BY EARTH CONTACT PRODUCTS OR CHANCE PIERS.

5. IF FILL IS REQUIRED, THE FOUNDATIONS MAY BE POURED ON FILL MATERIAL WITH APPROVAL OF THE STRUCTURAL ENGINEER PROVIDED THE FILL MATERIAL IS PROPERLY COMPACTED AND TESTED.

CONCRETE

1. CONCRETE SHALL BE MIXED OFFSITE AT A BATCH PLANT AND THE MIX SHALL BE DESIGNED IN ACCORDANCE WITH ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE.

2. PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 318.

3. REINFORCEMENT FOR FOUNDATIONS SHALL BE GRADE 60 AND SUBWALLS GRADE 60.

4. DO NOT ADD WATER TO THE CONCRETE MIX ON THE JOBSITE. CONCRETE THAT IS UNSUITABLE FOR POURING SHALL BE REJECTED, NOT WATERED DOWN TO MAKE IT MORE WORKABLE.

5. CURING OF THE CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 5.3.6.4 OF ACI 301 UTILIZING SPRAY CURING, WET MATS, CURING COMPOUND, OR OTHER METHODS CALLED OUT IN ACI 301.

6. UNLESS NOTED OTHERWISE ON THE PLANS, CONCRETE SHALL HAVE AN f'c OF 3000 PSI.

7. DO NOT PLACE CONCRETE WHEN TEMPERATURES ARE BELOW FREEZING UNLESS FOLLOWING ACI 306. COLD WEATHER CONCRETING. WHEN AMBIENT TEMPERATURES EXCEED 80° F AND EVAPORATION RATE EXCEEDS 1 kg/m²/h CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 305, SPECIFICATION FOR HOT WEATHER CONCRETING

8. ALL CONCRETE EXPOSED TO FREEZE/THAW CYCLES SHALL BE AIR ENTRAINED.

9. THE FOLLOWING SAMPLES SHALL BE TAKEN FROM THE CONCRETE DURING PLACEMENT ACCORDING TO ASTM C31, *STANDARD PRACTICE FOR MAKING AND CURING CONCRETE TEST SPECIMENS IN THE FIELD*
2 CYLINDERS: BREAK AT 7 DAYS
2 CYLINDERS: BREAK AT 28 DAYS
2 CYLINDERS: HOLD IN RESERVE
SPECIMENS SHALL BE TAKEN FOR EACH DAY OF POURING WITH A MINIMUM OF A SAMPLE FOR EVERY 150 CUBIC YARDS.

METAL BAR GRATING

METAL BAR GRATING SHALL COMPLY WITH ANSI/NAAM MBG 531-17, METAL BAR GRATING MANUAL, AND SHALL BE OF THE SIZE NOTED ON THE PLANS.

REINFORCING STEEL

1. ALL BAR REINFORCING STEEL SHALL CONFORM TO ASTM A615

2. ALL REINFORCING WIRE SHALL CONFORM TO ASTM A185

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A990 FOR BEAMS AND ANGLES AND ASTM A500 GRADE C FOR TUBULAR MEMBERS. PLATES SHALL BE THE GRADE NOTED ON CONNECTION DRAWINGS.

2. STRUCTURAL STEEL CONNECTIONS WHERE NOT SPECIFICALLY DETAILED ON THE DRAWING SHALL BE DESIGNED BY THE STEEL FABRICATOR IN COMPLIANCE WITH REQUIREMENTS OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL CONNECTIONS DESIGNED BY THE FABRICATOR SHALL BE REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER RETAINED BY THE FABRICATOR. EXACT DIMENSIONS OF STEEL CONNECTIONS FOR FABRICATION ON DRAWING DETAILS SHALL BE DETERMINED BY THE FABRICATOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL.

3. ALL WELDING SHALL BE DONE WITH E70XX ELECTRODES AND SHALL BE $\frac{3}{16}$" THROAT WIDTH UNLESS OTHERWISE NOTED.

4. ANCHOR AND CONNECTION BOLTS SHALL CONFORM TO ASTM A325 UNLESS OTHERWISE NOTED ON DRAWINGS.

SHOP DRAWINGS:

1. SHOP DRAWINGS SHALL INCLUDE MEMBER SIZES, DIMENSIONS, AND CONNECTION DETAILS TO INCLUDE BOLT SIZES AND WELD SYMBOLS. ALL SHOP DRAWINGS SHALL BE PROVIDED WITH APPROVAL BY A PROFESSIONAL ENGINEER.
2. SHOP DRAWINGS SHALL BE PROVIDED FOR THE FOLLOWING:
   2.A. STAIRWAYS
   2.B. PLATFORMS
   2.C. HANDRAILS AND GUARD RAILS
   2.D. STEEL CONNECTIONS

TOWER FOUNDATION:

1. THE TOWER FOUNDATIONS AND BASEPLATES SHALL BE DESIGNED BY THE CONTRACTOR UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.
2. LOADS FOR FOUNDATIONS CAN BE OBTAINED FROM THE ENGINEER

THIRD PARTY (SPECIAL) INSPECTIONS:

A. THE FOLLOWING INSPECTIONS SHALL BE PERFORMED UNDER A QUALIFITED THIRD PARTY INSPECTOR. THE THIRD PARY INSPECTOR SHALL BE UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN GEORGIA, AND SHALL BE QUALIFIED AS THE FOLLOWIING:

1. STEEL INSPECTIONS: THE INSPECTOR SHALL BE QUAILIFIED AS A CERTIFIED WELD INSPECTOR (CWI) UNDER THE AMERICAN WELDING SOCIETY.

2. CONCRETE INSPECTIONS: THE INSPECTOR SHALL BE QUALIFIED AS A CONCRETE CONSTRUCITON SPECIAL INSPECTOR UNDER THE AMERICAN CONCRETE INSTITUTE (ACI).

3. SOIL BEARING CAPACITY VERIFICATION: THE SOIL BEARING CAPACITY SHALL BE VERIFIED BY A LICENSED PROFESSIONAL ENGINEER THAT IS A PRACTICING GEOTECHNICAL ENGINEER, OR BY A LICENSED PROFESSIONAL GEOLOGIST.

B: THE FOLLOWING INSPECTIONS ARE REQUIRED FOR STEEL:

1. BOLTED CONNECTIONS: OBSERVATION OF PLACEMENT AND TIGHTENING (TURN OF THE NUT)

2. WELDED CONNECTIONS ON TOWER: 100% OBSERVATION BY ULTRASONIC OR MAGNETIC PARTICLE INSPECTION.

3. WELDEND CONNECTIONS ON CONTAINERS: VISUAL OBSERVATION

C. THE FOLLOWING INSPECTIONS ARE REQUIRED FOR FOUNDATIONS:

1. OBSERVATION OF THE EXCAVATION AND VERIFY BEARING CAPACITY BY USE OF ASTM STP 399, "DYNAMIC CONE FOR SHALLOW IN-SITU PENETRATION TESTING.

2. OBSERVATION OF DIMENSIONS OF FOUNDATIONS AND PLACEMENT OF REINFORCING.

3. CONCRETE TESTING AS DESCRIBED UNDER THE "CONCRETE" SECTION OF THE NOTES.

D. TOWER FOUNDATIONS SHALL BE INSPECTED AS REQUIRED BY THE DELEGATED DESIGN.

:

General Notes

GEORGIA REGISTERED NO. PROFESSIONAL ENGINEER GEORGE W. RUNKLE III

No.	Revision/Issue	Date

Firm Name and Address

RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

DRAWN:
AB

Project Name and Address

BURN BUILDING
LAGRANGE, GA

Project
Preliminary Plans

Date
02/26/18

Scale
N/A

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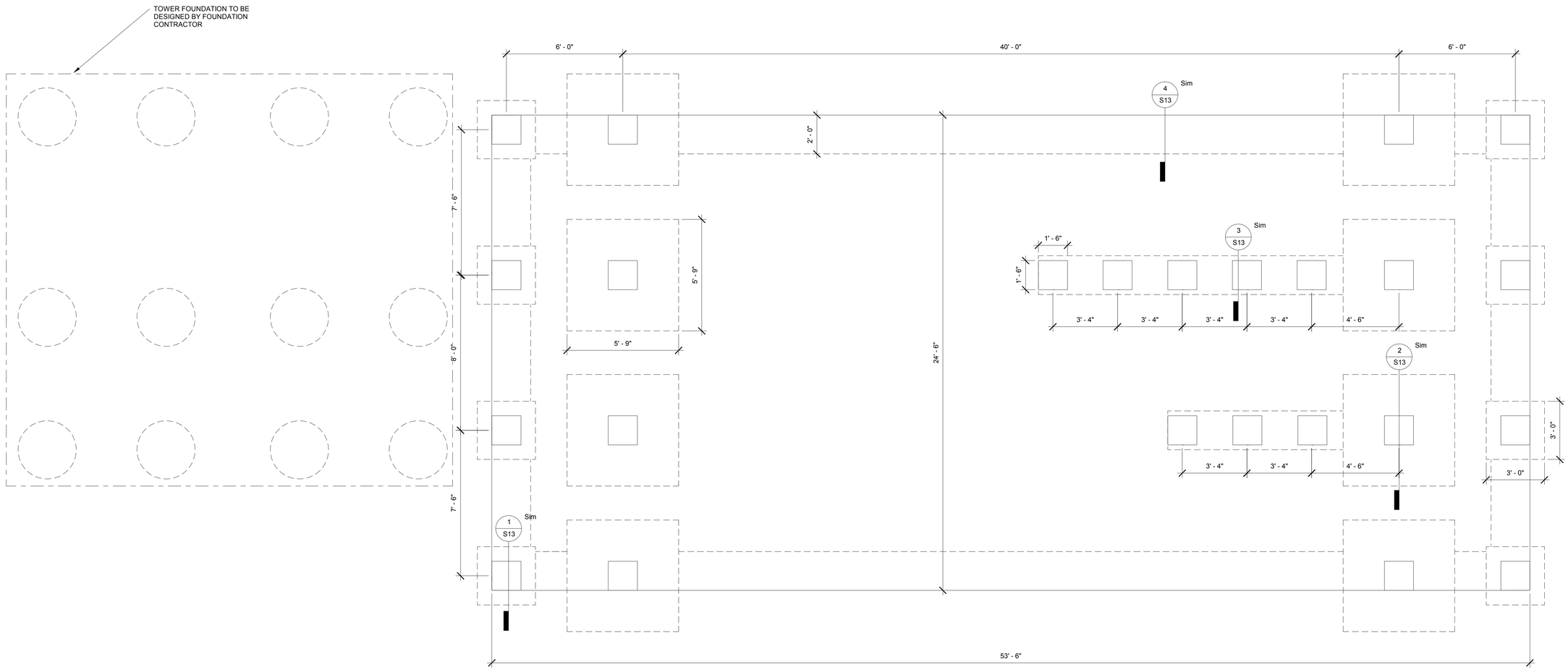

1 FOUNDATION
3/8" = 1'-0"

General Notes

GEORGIA REGISTERED NOT PERSON PROFESSIONAL ENGINEER GEORGE W. RUNALE III

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930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

DRAWN:
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BURN BUILDING
LAGRANGE, GA

Project
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Date
02/26/18

Scale
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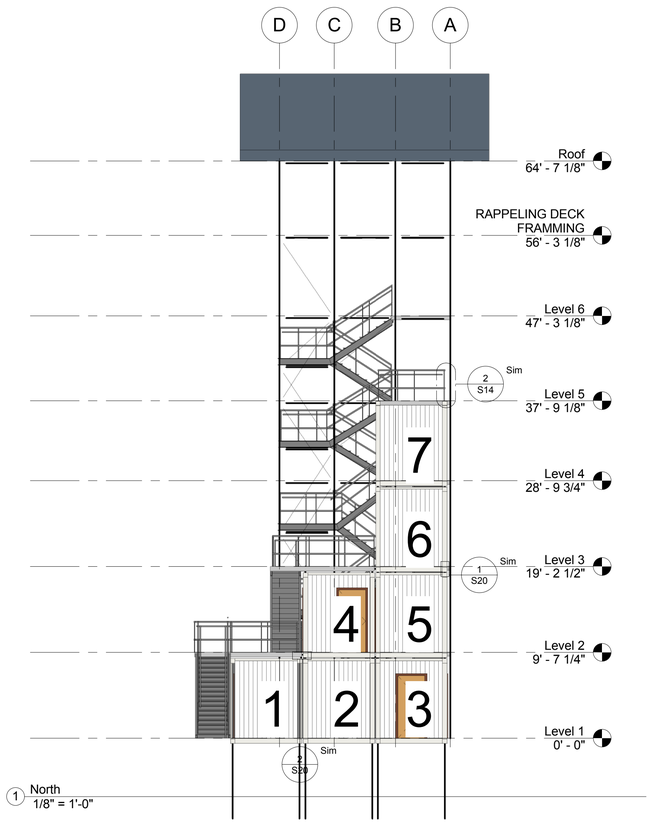
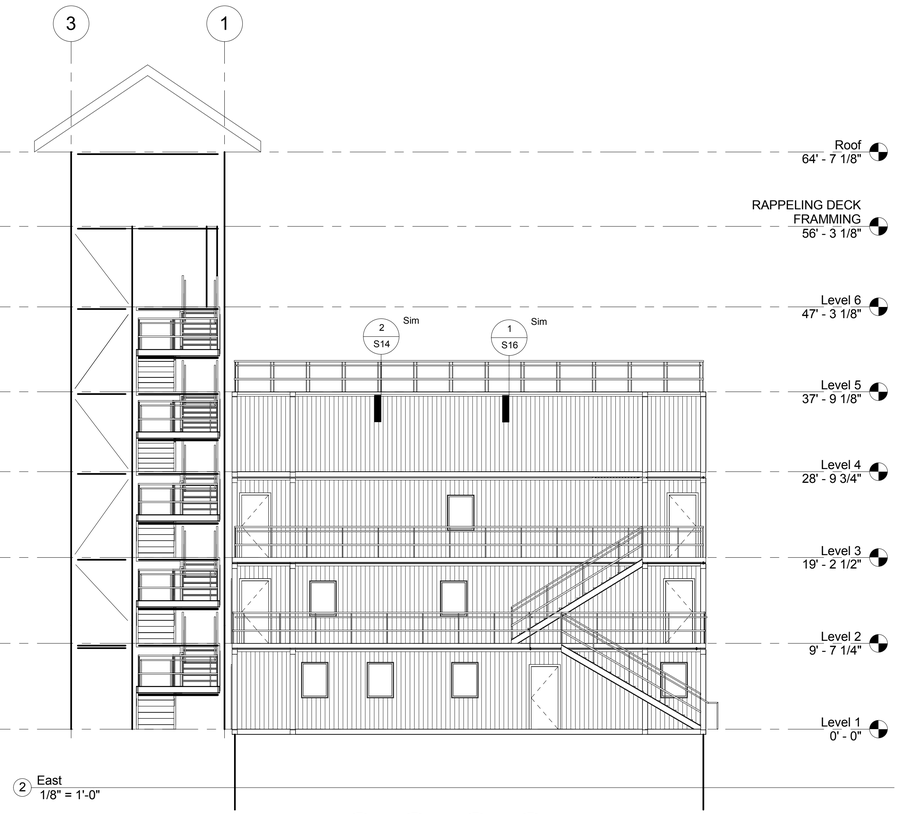
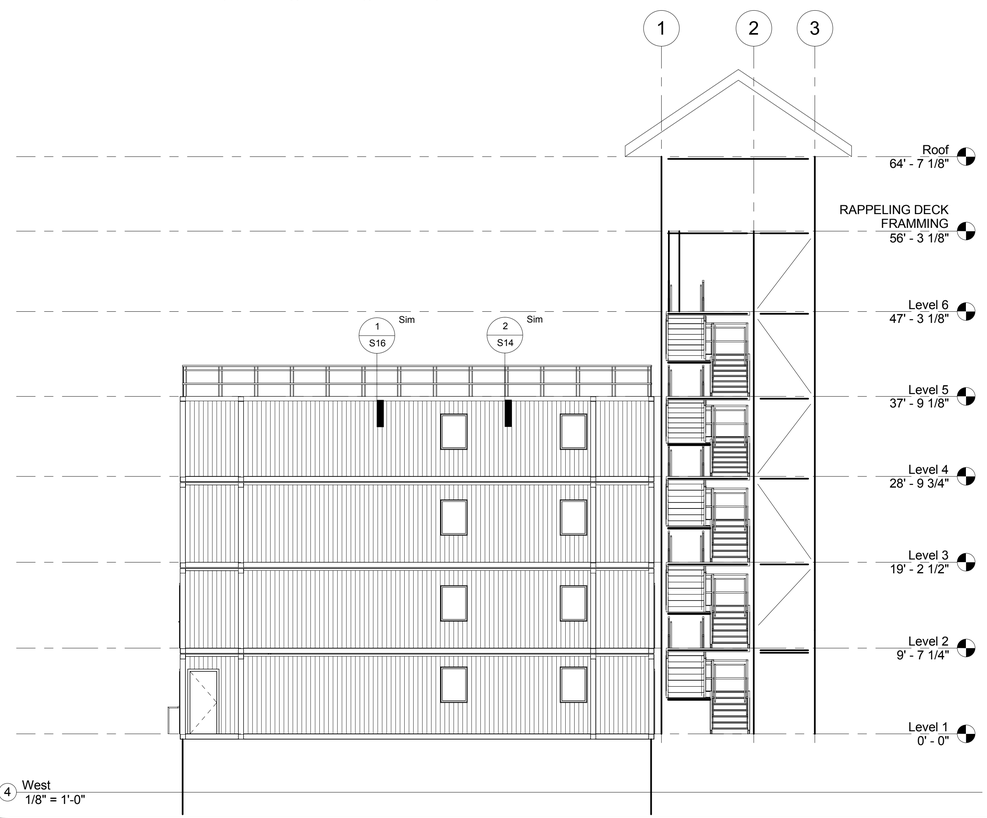


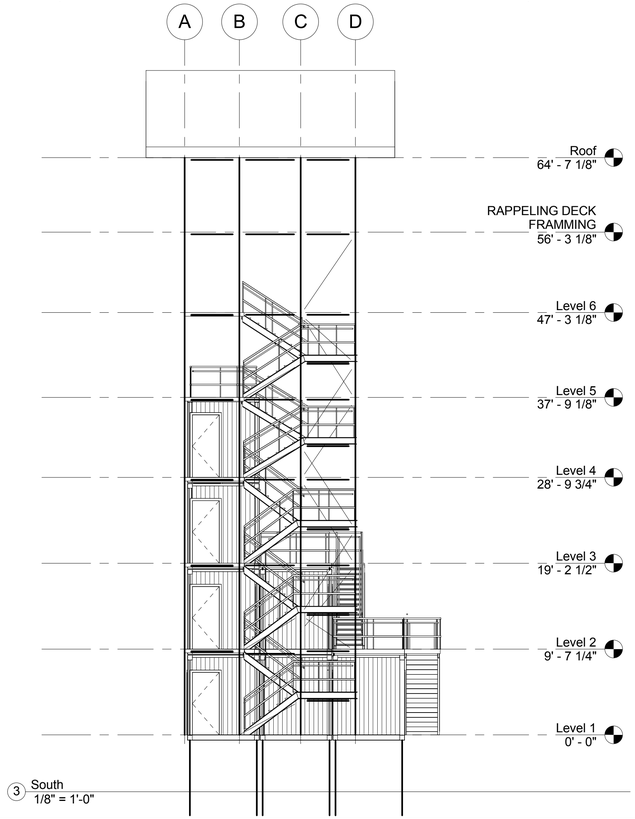
1 North
1/8" = 1'-0"



2 East
1/8" = 1'-0"



4 West
1/8" = 1'-0"



3 South
1/8" = 1'-0"

General Notes

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930 NEW HOPE ROAD, STE11-145
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678-225-4900

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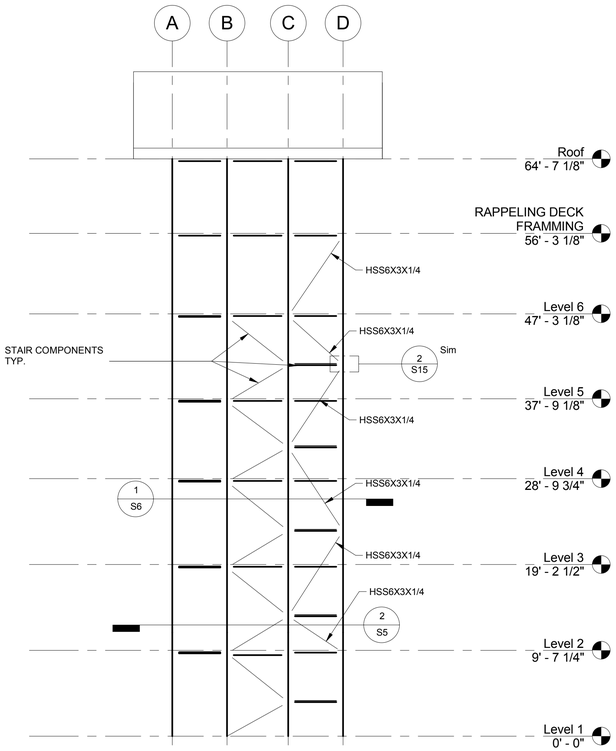
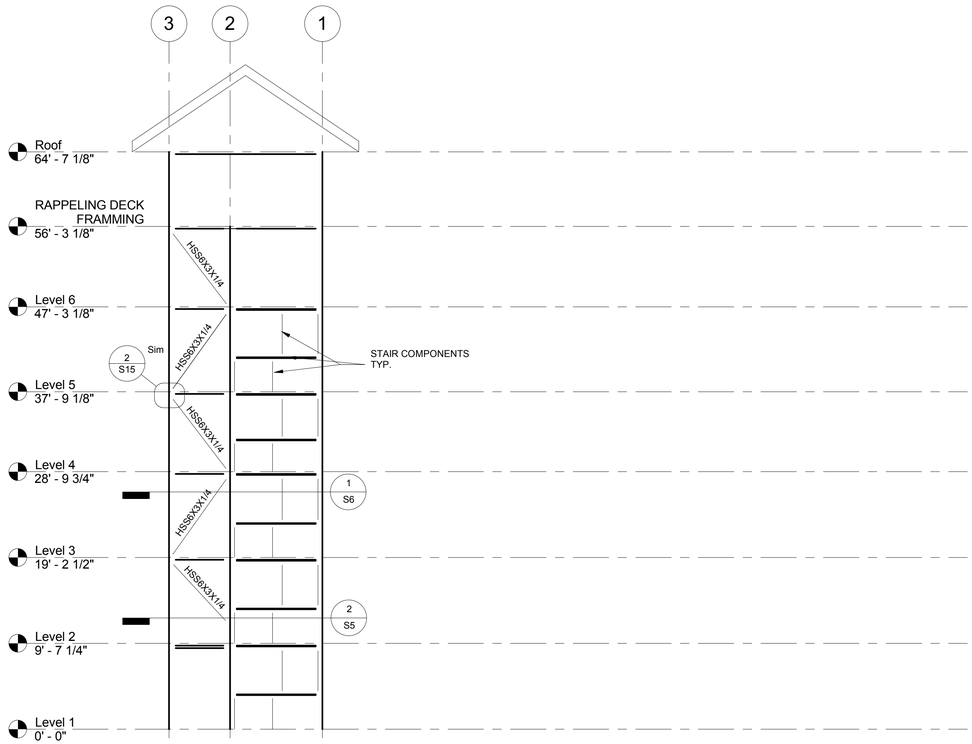
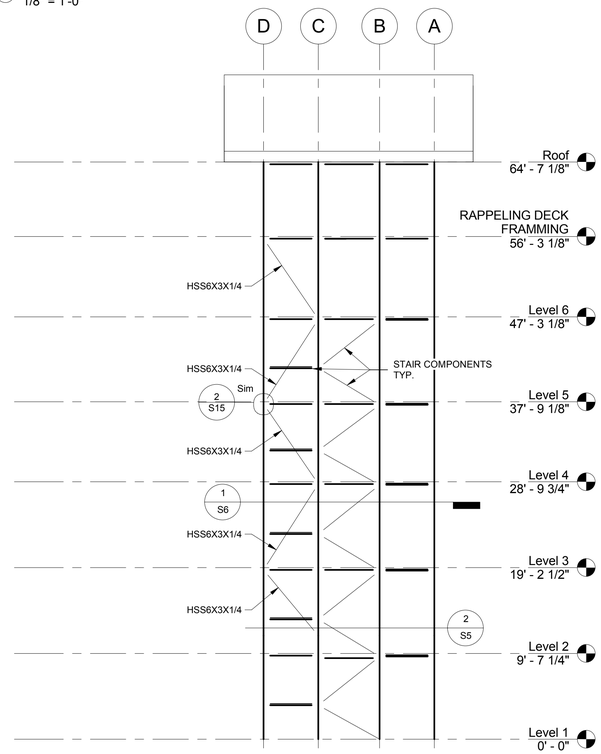


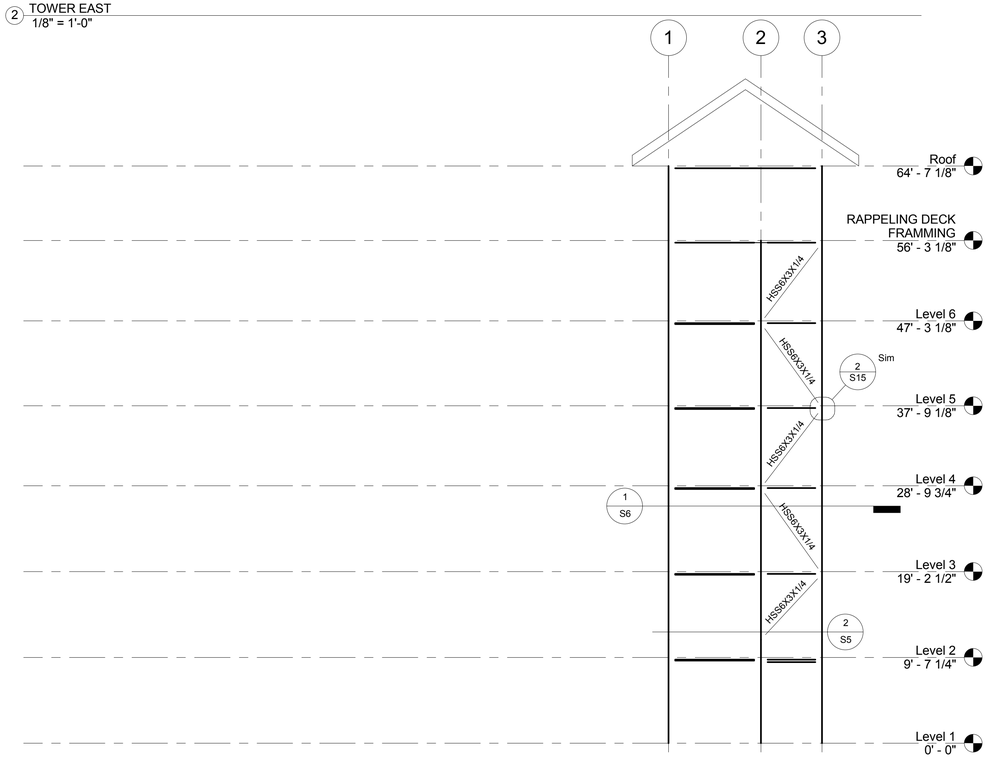
1 TOWER SOUTH
1/8" = 1'-0"



2 TOWER EAST
1/8" = 1'-0"



3 TOWER NORTH
1/8" = 1'-0"



4 TOWER WEST
1/8" = 1'-0"

General Notes

GEORGIA
REGISTERED
NO. PE015571
PROFESSIONAL
ENGINEER
GEORGE W. RUNKLE III

No.	Revision/Issue	Date

Firm Name and Address

RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

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AB

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LAGRANGE, GA

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Preliminary Plans

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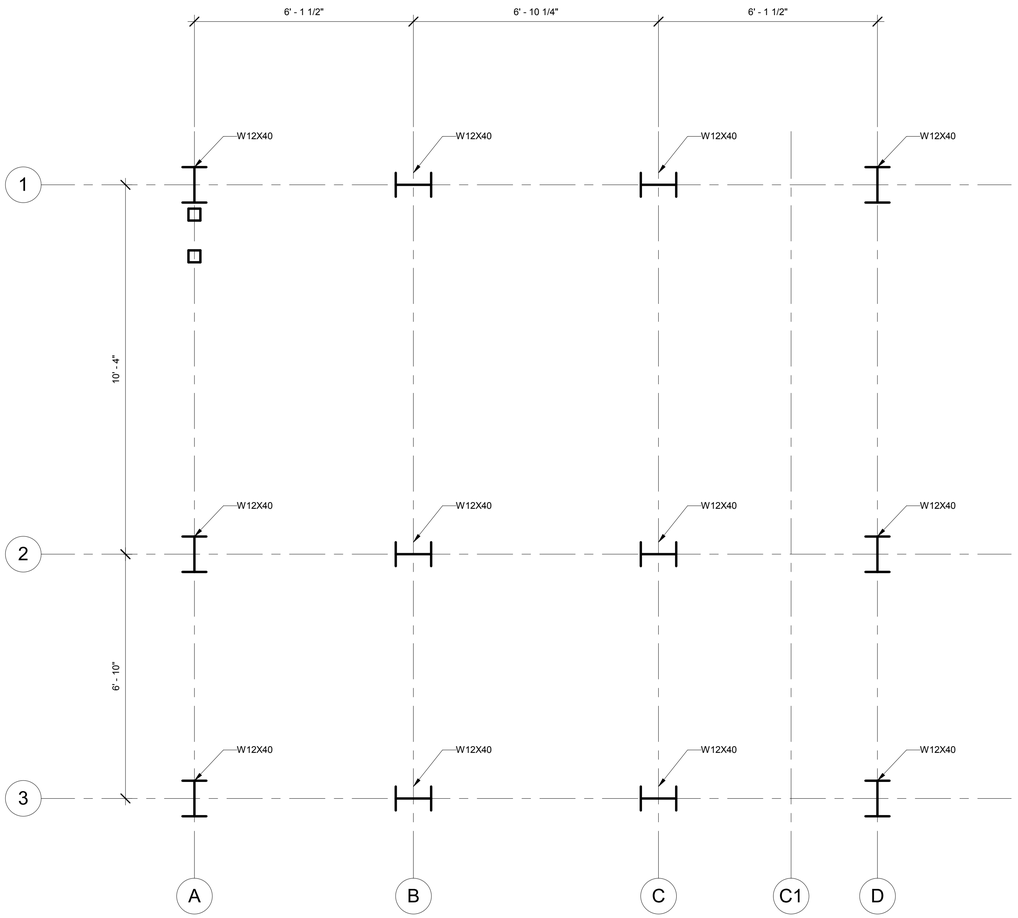
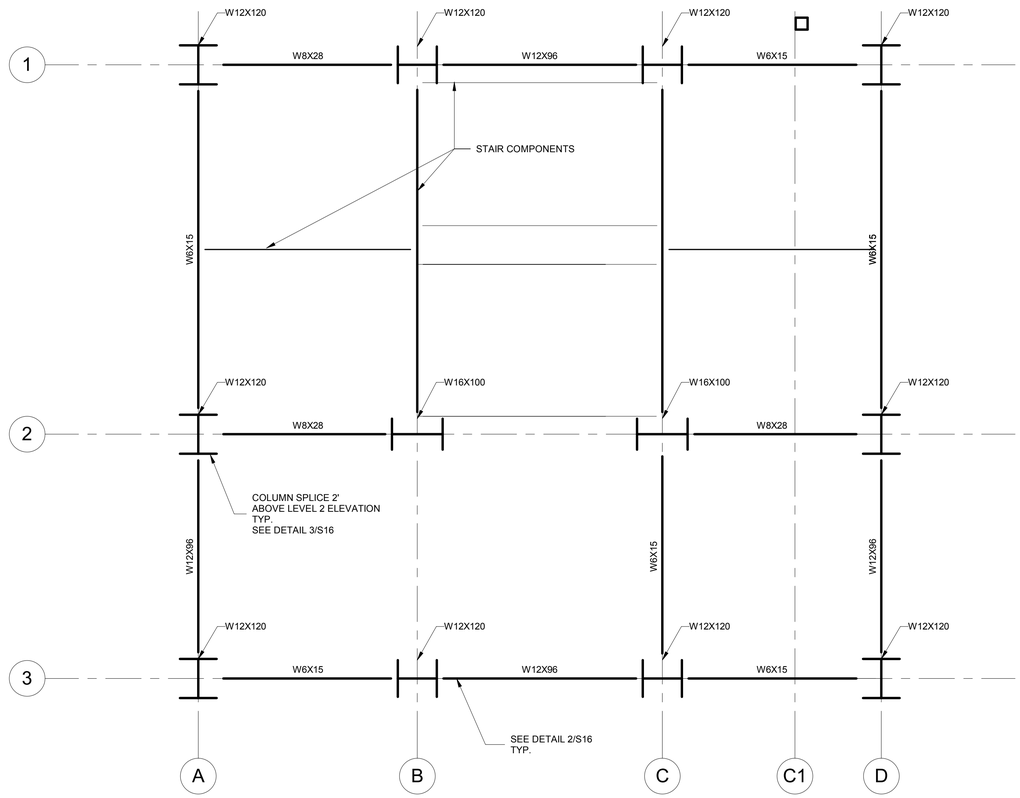


1 TOWER COLUMN LAYOUT
1/2" = 1'-0"



2 TOWER MOMENT FRAM/COLUMN LAYOUT
1/2" = 1'-0"

General Notes

GEORGIA REGISTERED NATIONAL PROFESSIONAL ENGINEER GEORGE W. RUNALE III

No.	Revision/Issue	Date

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RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

DRAWN:
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Project Name and Address

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LAGRANGE, GA

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Date
02/26/18

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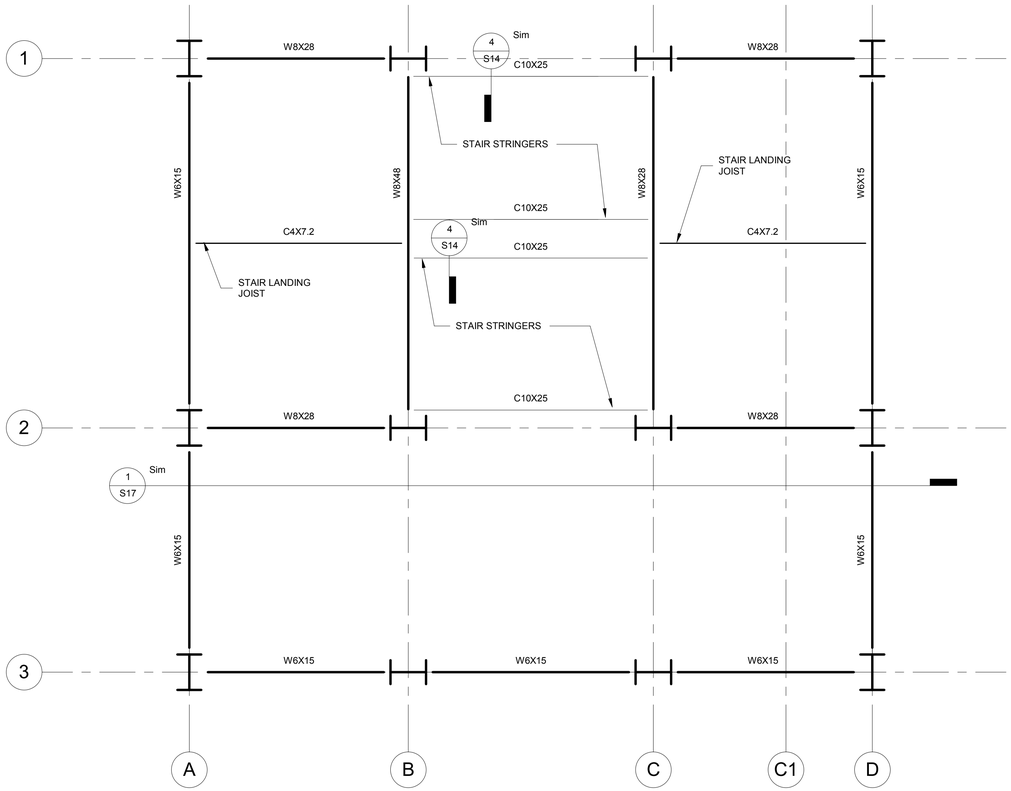
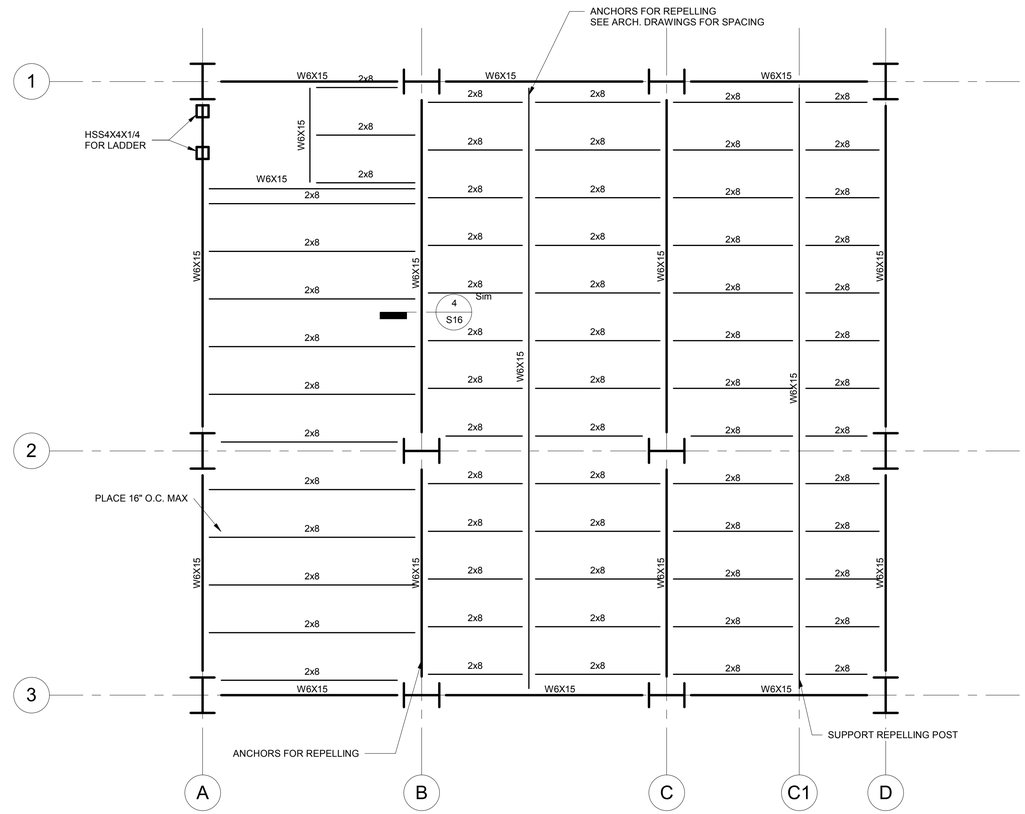


1 STAIR TOWER FRAMING TYP.
1/2" = 1'-0"



2 RAPPELING DECK FRAMMING
1/2" = 1'-0"

General Notes

GEORGE W. RUNALE III
REGISTERED
PROFESSIONAL
ENGINEER

No.	Revision/Issue	Date

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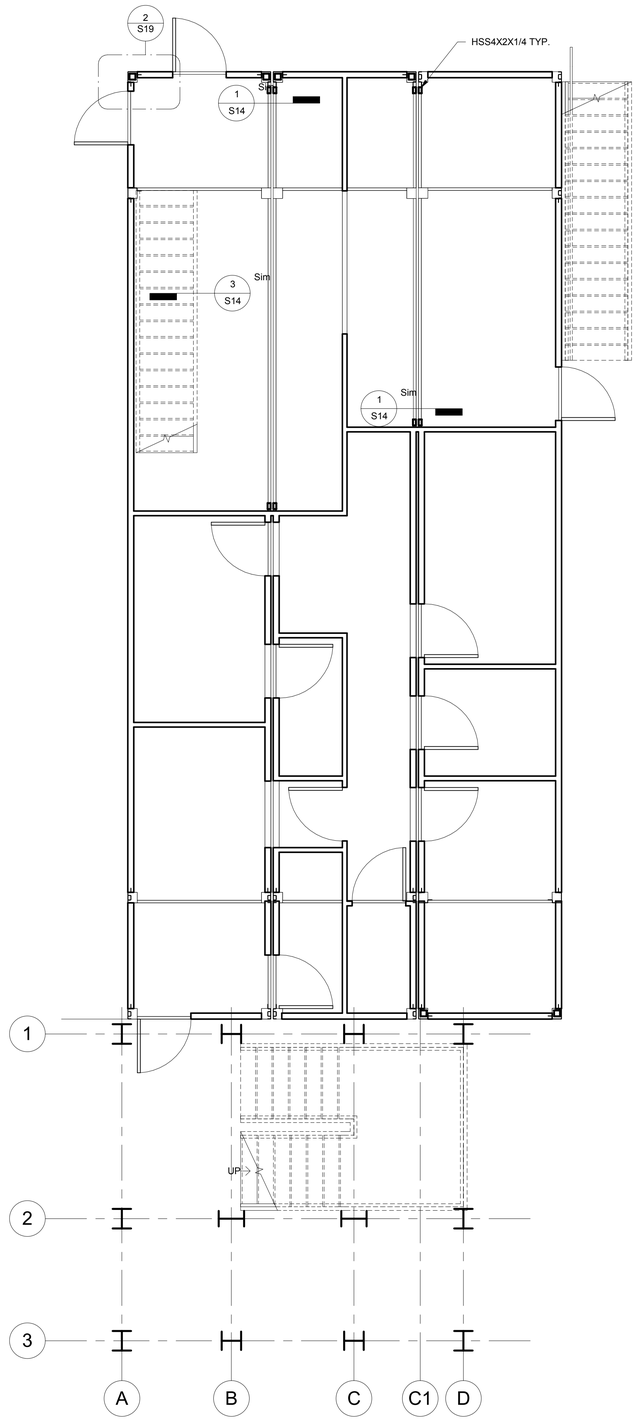
RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

DRAWN:
AB

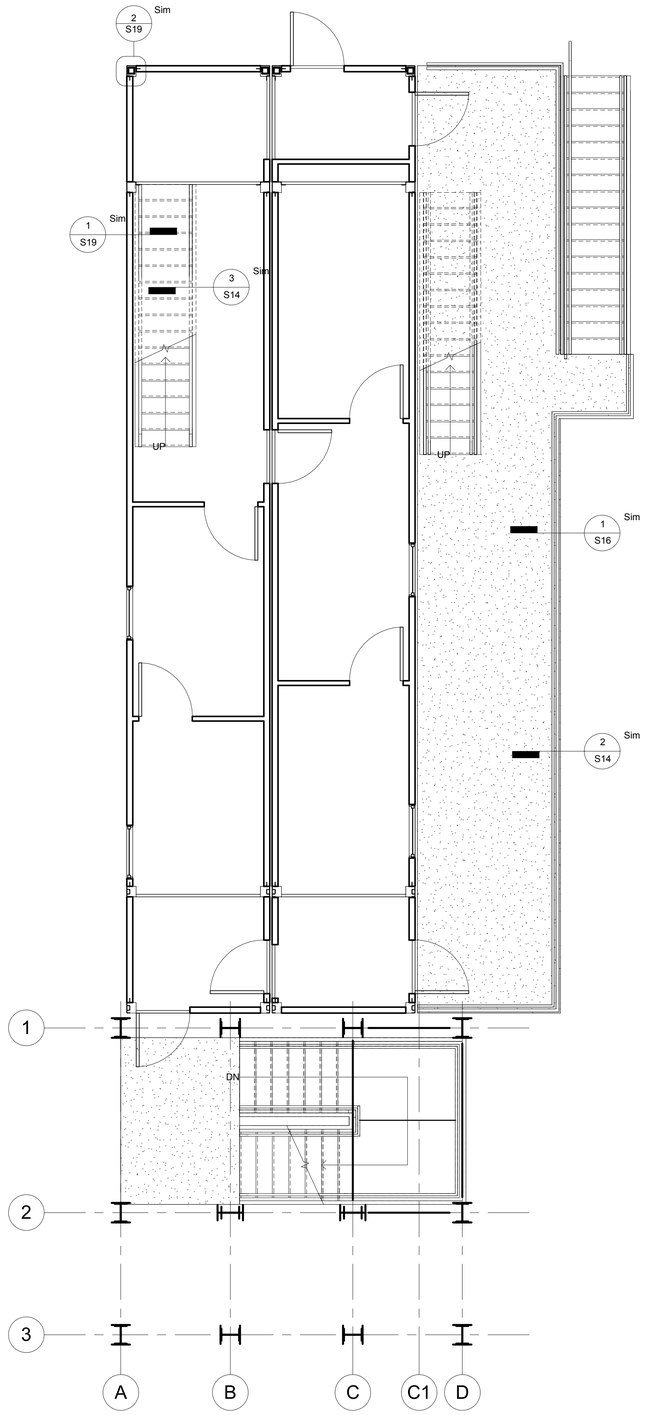
Project Name and Address

BURN BUILDING
LAGRANGE, GA

Project	Sheet
Preliminary Plans	
Date: 02/26/18	S6
Scale: N/A	



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



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

General Notes

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LAWRENCEVILLE, GA 30045
678-225-4900

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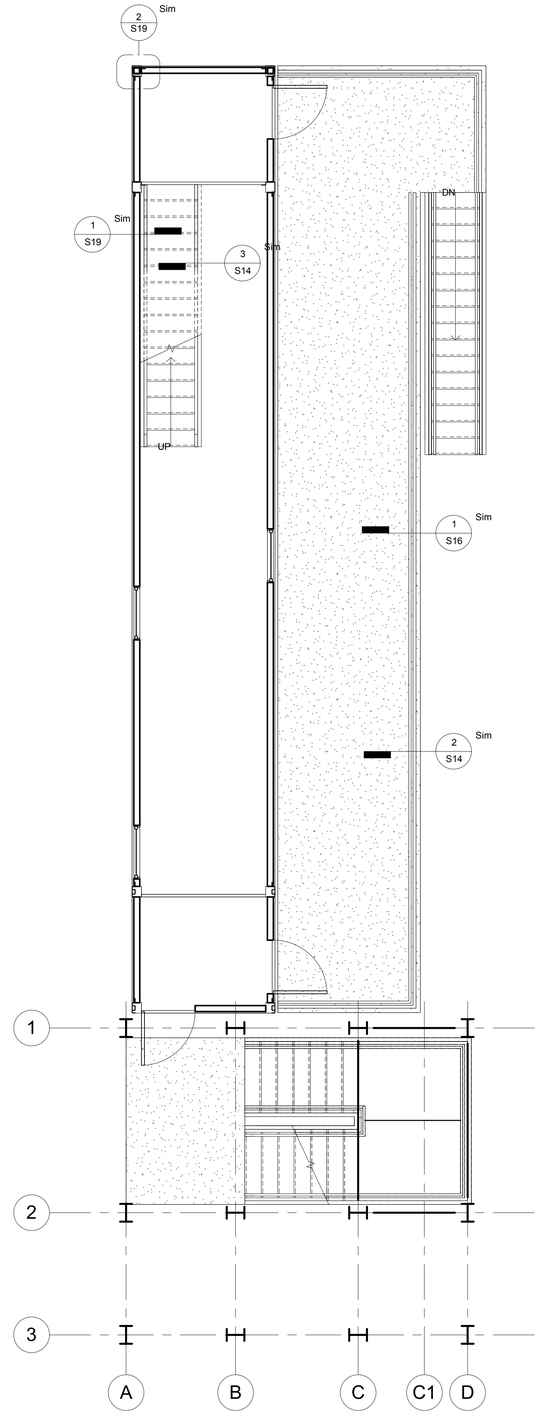
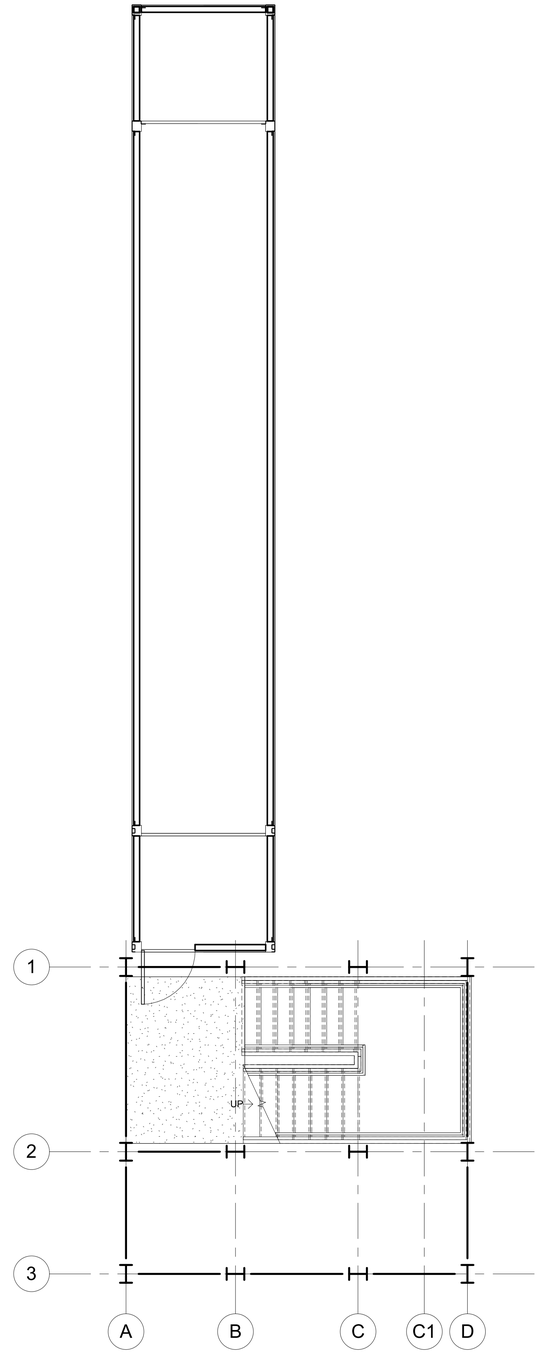
Date: 02/26/18	
Scale: N/A	



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



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

General Notes

GEORGIA
REGISTERED
NOT PERFECT
PROFESSIONAL
ENGINEER
GEORGE W. RUNKLE III

No.	Revision/Issue	Date

Firm Name and Address

RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

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Project Name and Address

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LAGRANGE, GA

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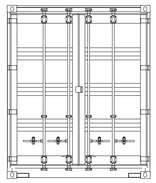
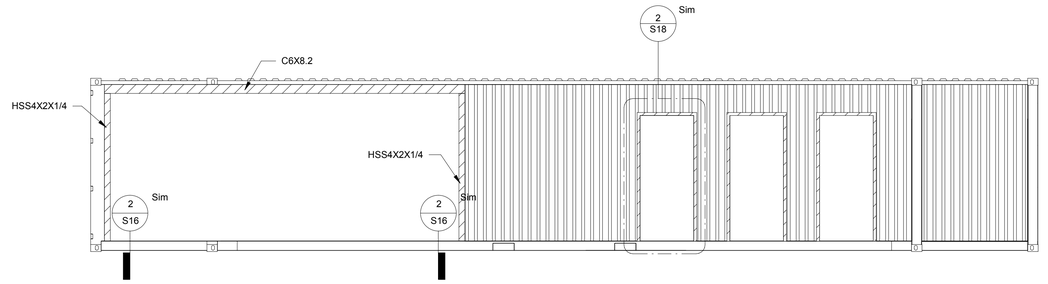
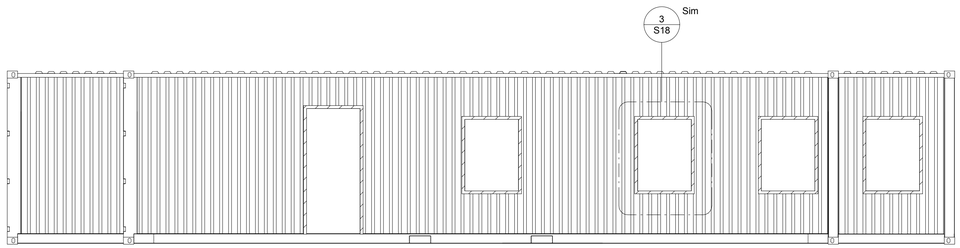
CONTAINER 1



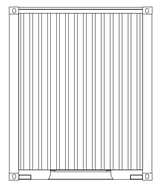
FRONT (53' HC)



RIGHT SIDE (53' HC)



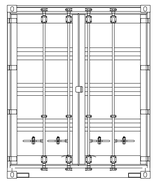
LEFT SIDE (53' HC)



BACK (53' HC)

1 CONTAINER 1 MODIFICATION
1/4" = 1'-0"

CONTAINER 2



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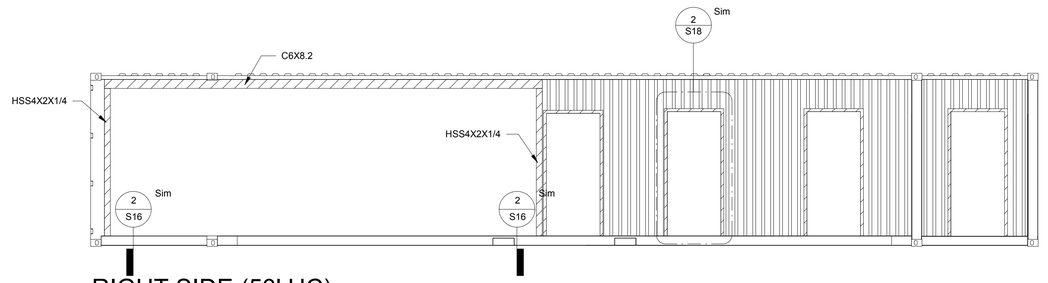

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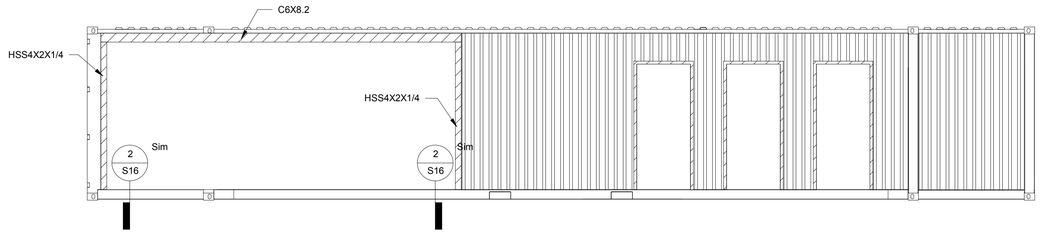

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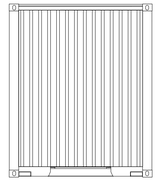

BACK (53' HC)

2 CONTAINER 2 MODIFICTION
1/4" = 1'-0"

General Notes

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Firm Name and Address

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930 NEW HOPE ROAD, STE11-145
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678-225-4900

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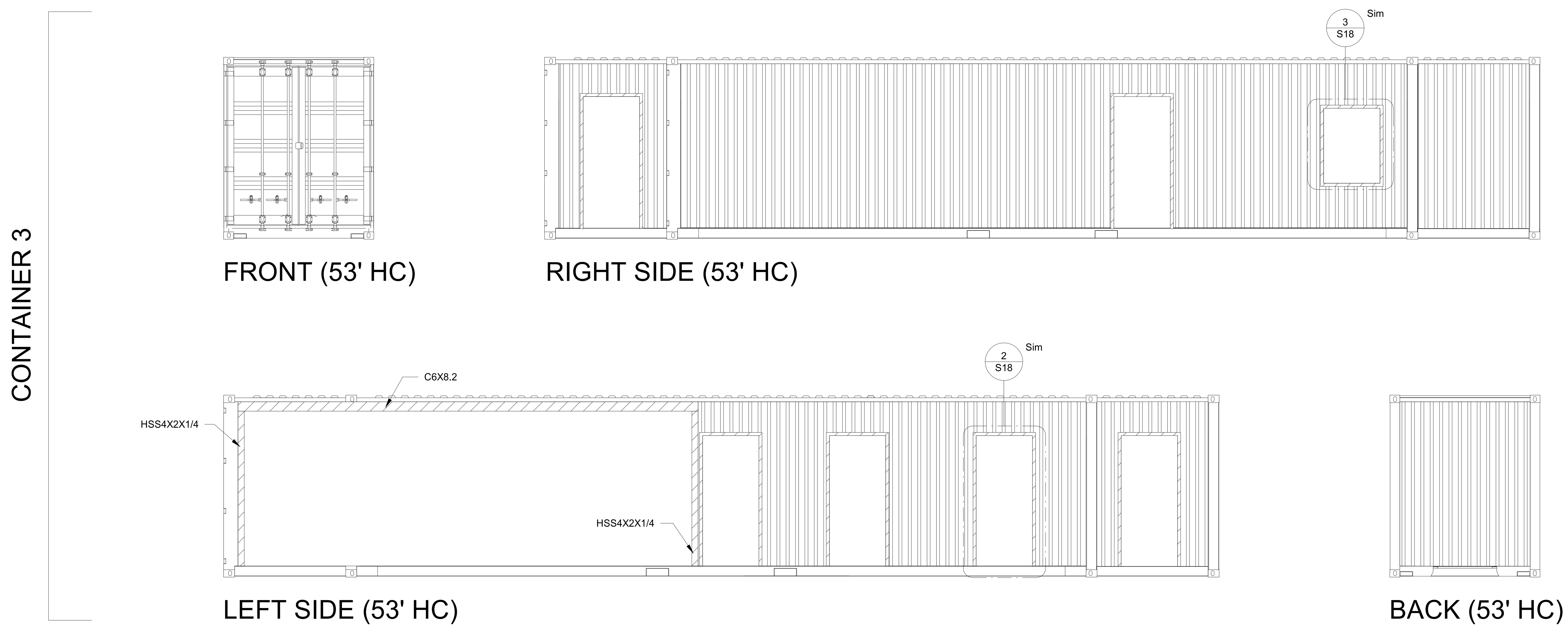
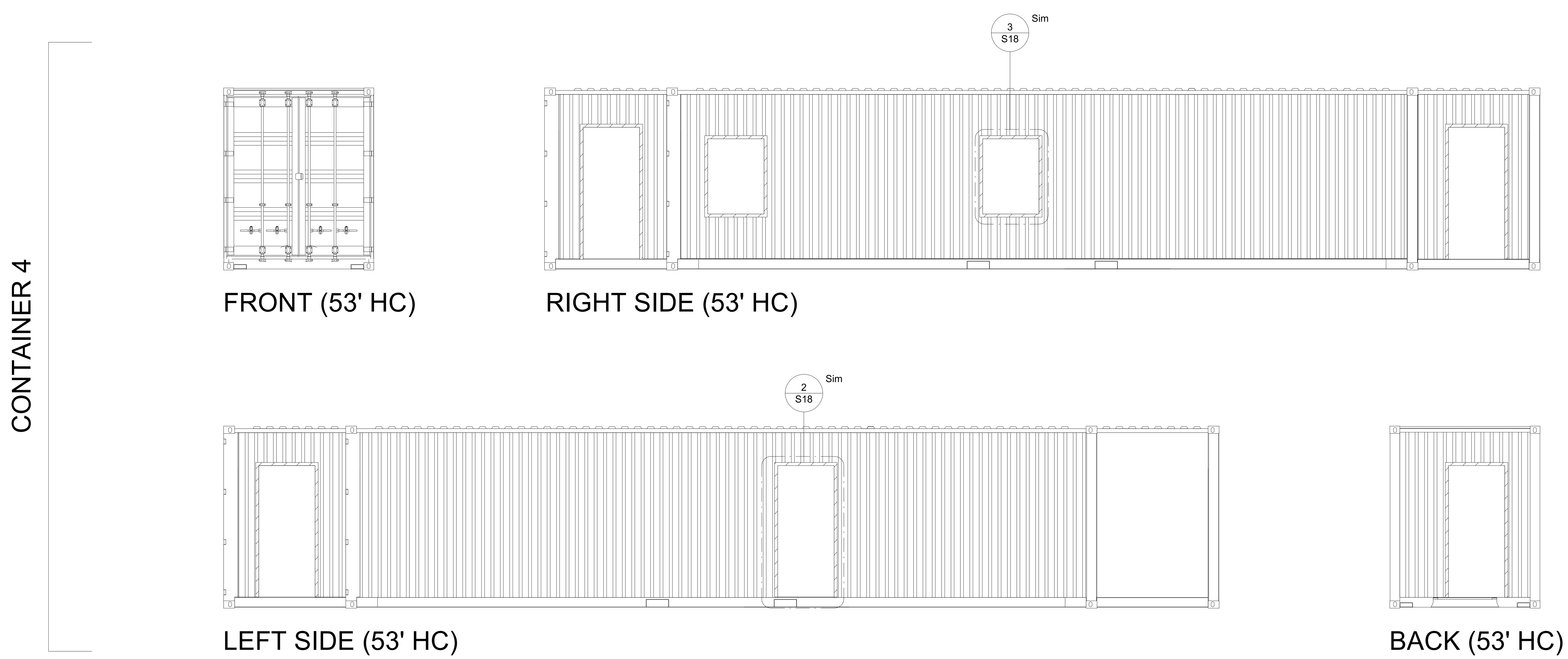


1 CONTAINER 3 MODIFICATION
1/4" = 1'-0"



2 CONTAINER 4 MODIFICATION
1/4" = 1'-0"

General Notes

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930 NEW HOPE ROAD, STE11-145
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678-225-4900

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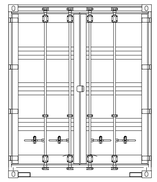
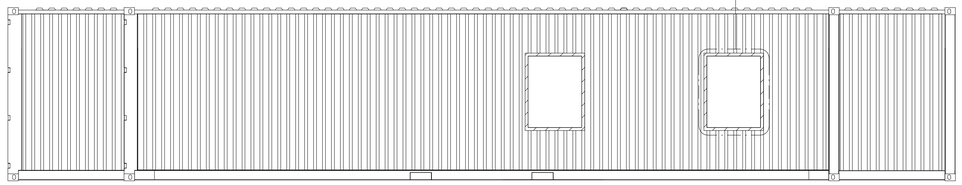
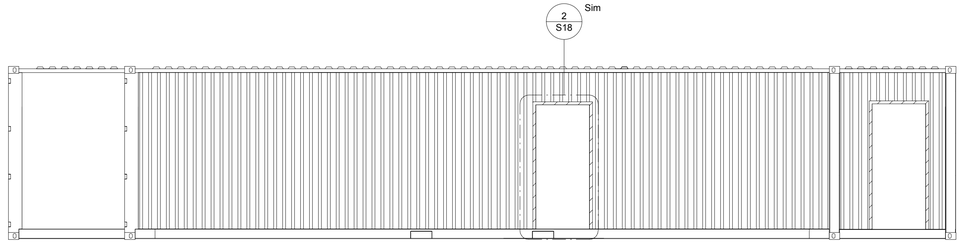
CONTAINER 5



FRONT (53' HC)



RIGHT SIDE (53' HC)



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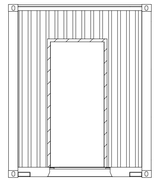
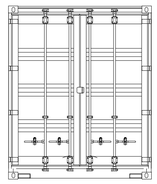


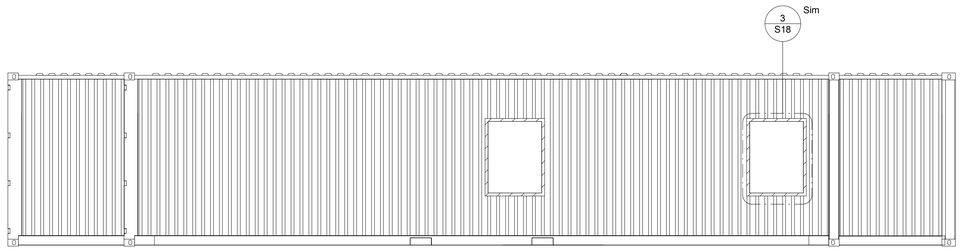
BACK (53' HC)

1 CONTAINER 5 MODIFICATION
1/4" = 1'-0"

CONTAINER 6



FRONT (53' HC)



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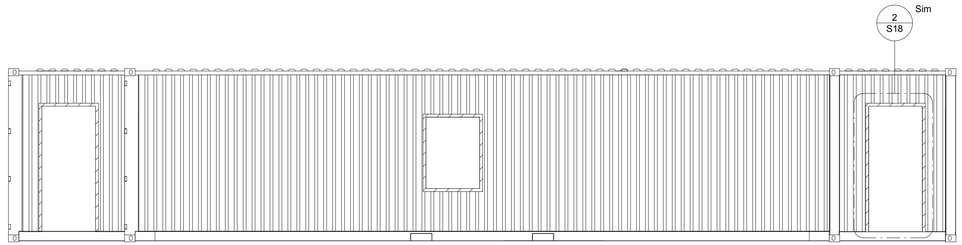
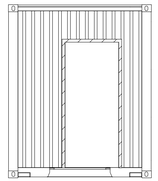


LEFT SIDE (53' HC)



BACK (53' HC)

2 CONTAINER 6 MODIFICATION
1/4" = 1'-0"

General Notes

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930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

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LAGRANGE, GA

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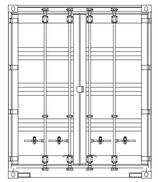
CONTAINER 7



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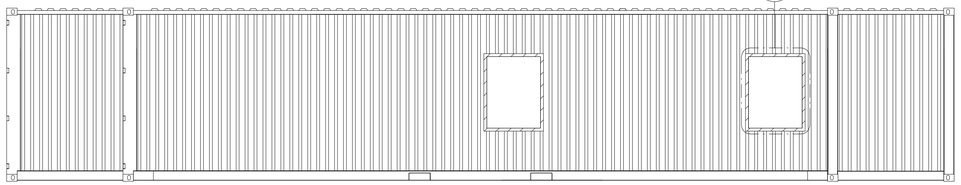
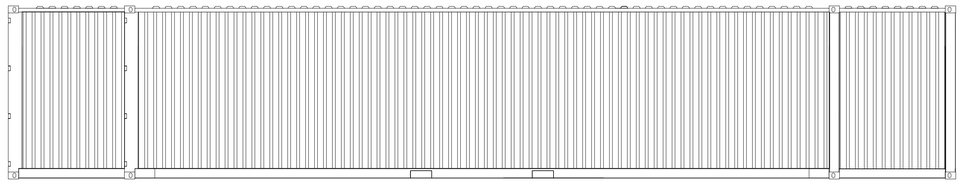


RIGHT SIDE (53' HC)



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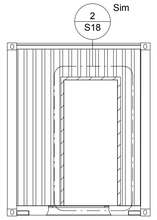

BACK (53' HC)

1 CONTAINER 7 MODIFICATION
1/4" = 1'-0"

General Notes

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Firm Name and Address

RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
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678-225-4900

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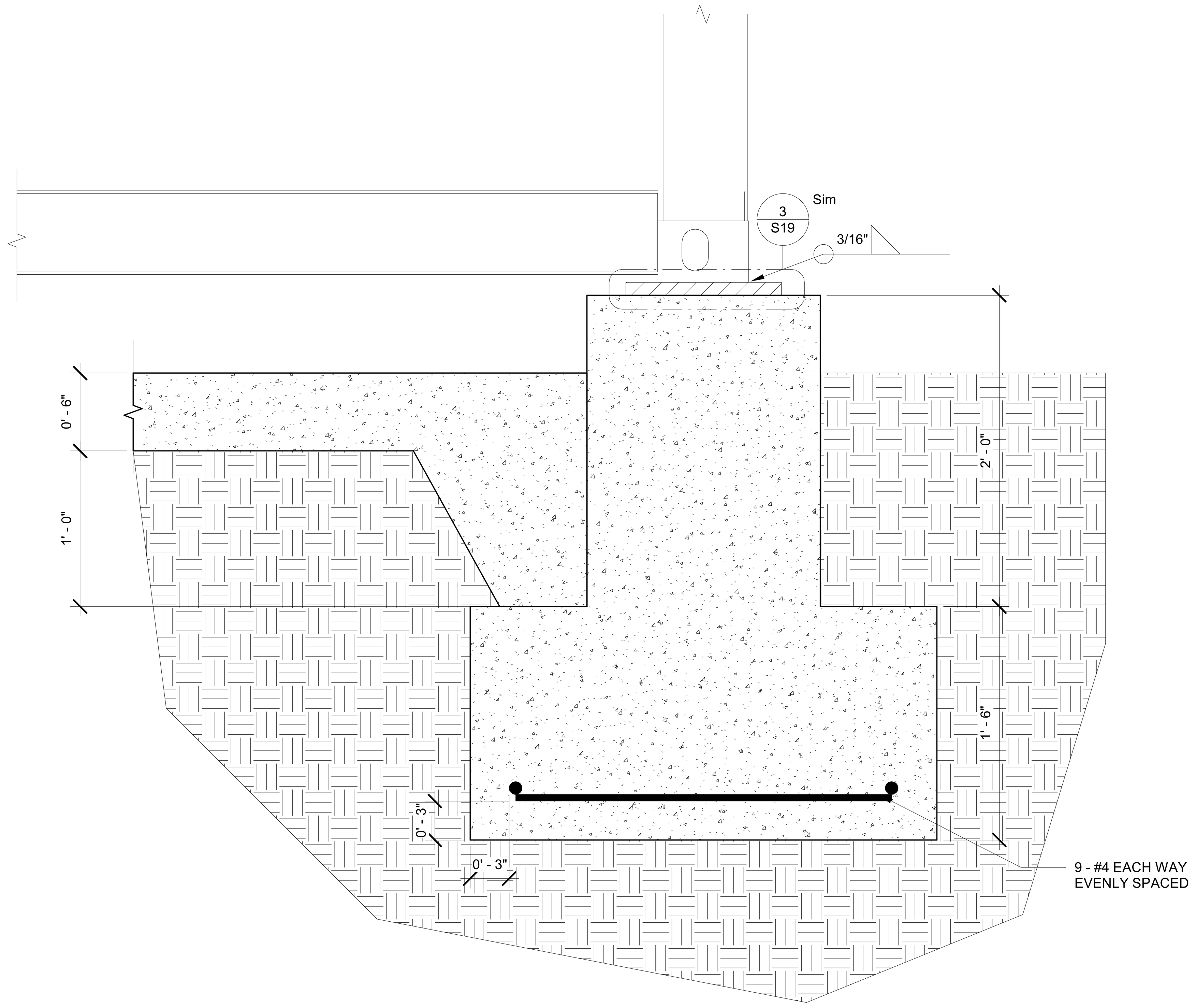
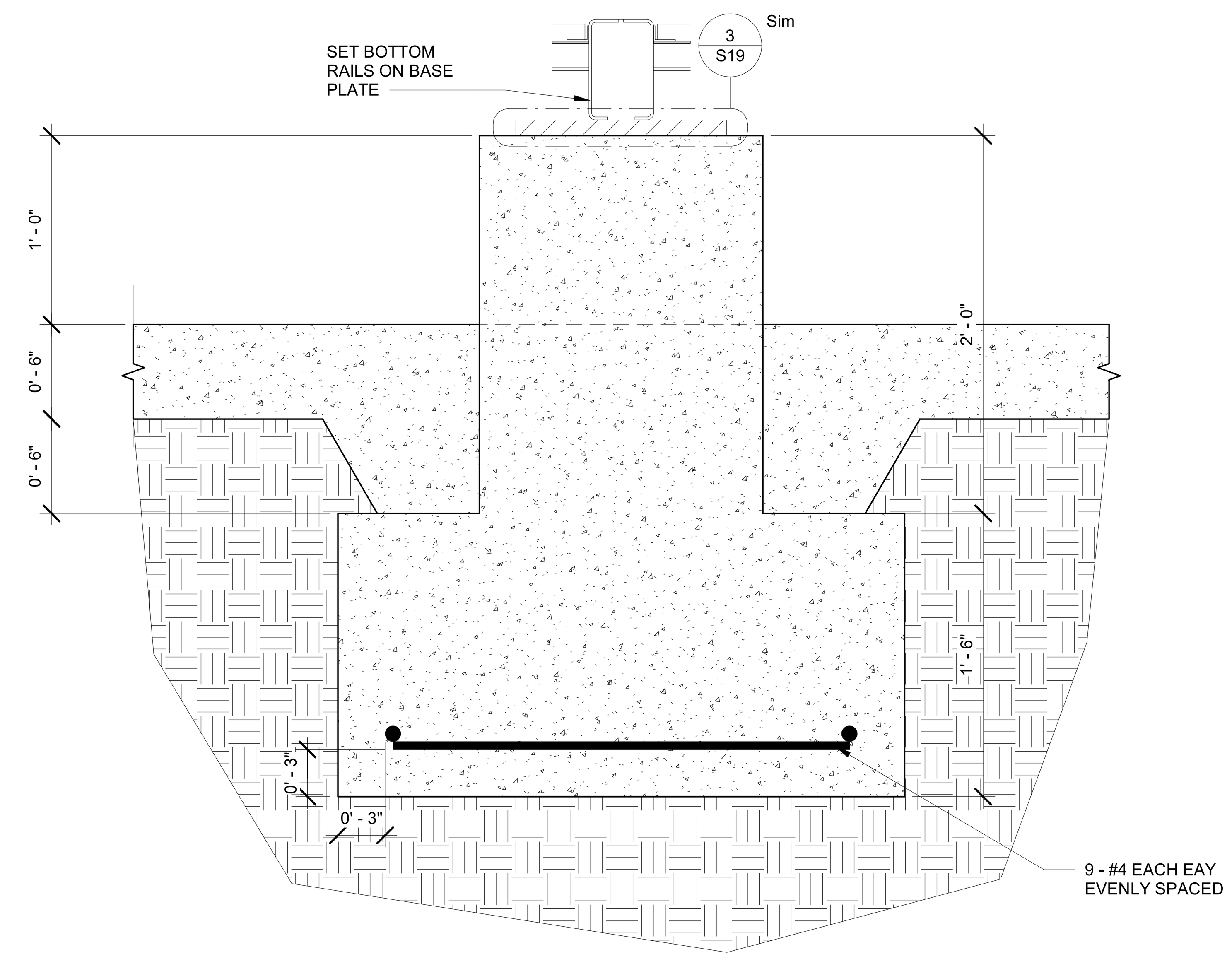
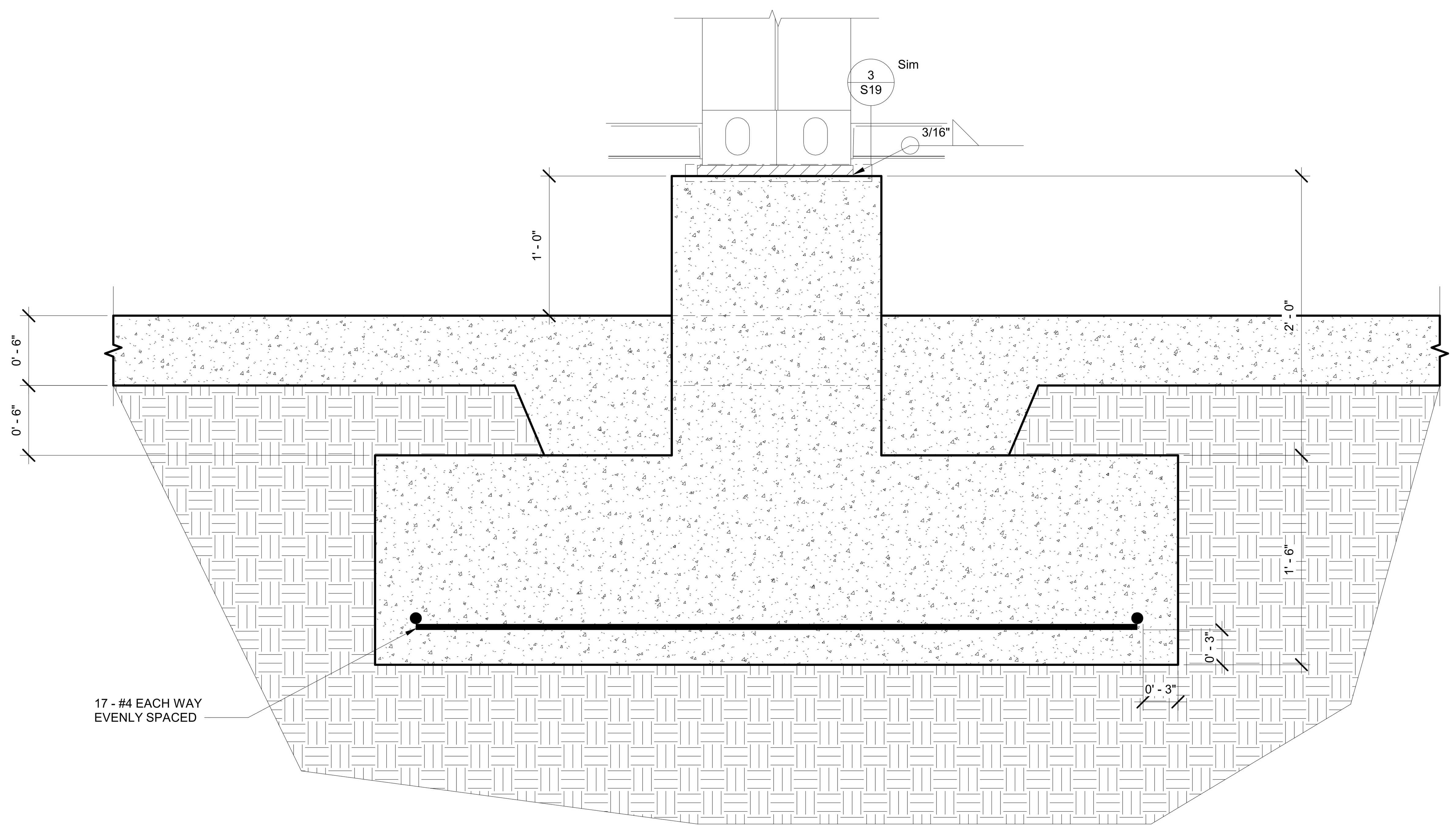


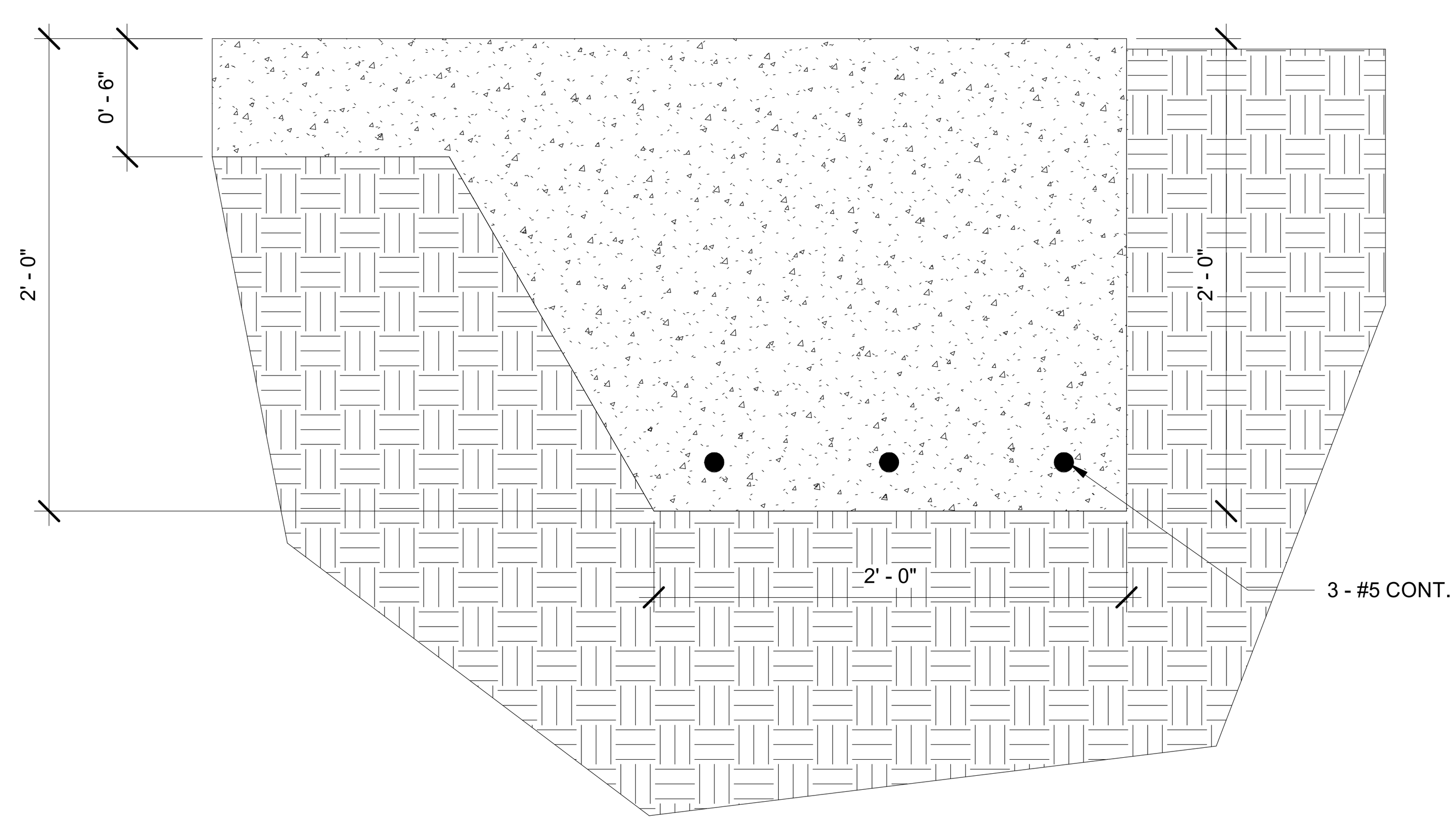
1 FOOTER 1
1 1/2" = 1'-0"



3 FOOTER 3
1 1/2" = 1'-0"

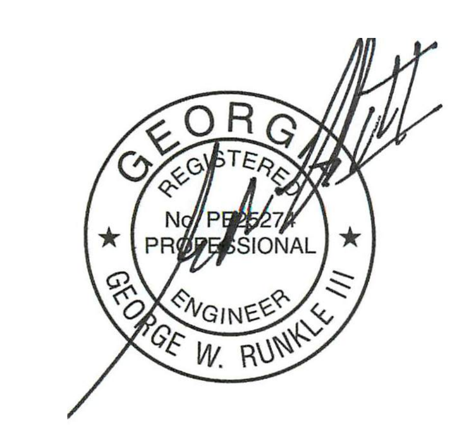


2 FOOTER 2
1 1/2" = 1'-0"



4 SLAB TURNDOWN TYP.
1 1/2" = 1'-0"

General Notes



No.	Revision/Issue	Date

Firm Name and Address

RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

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LAGRANGE, GA

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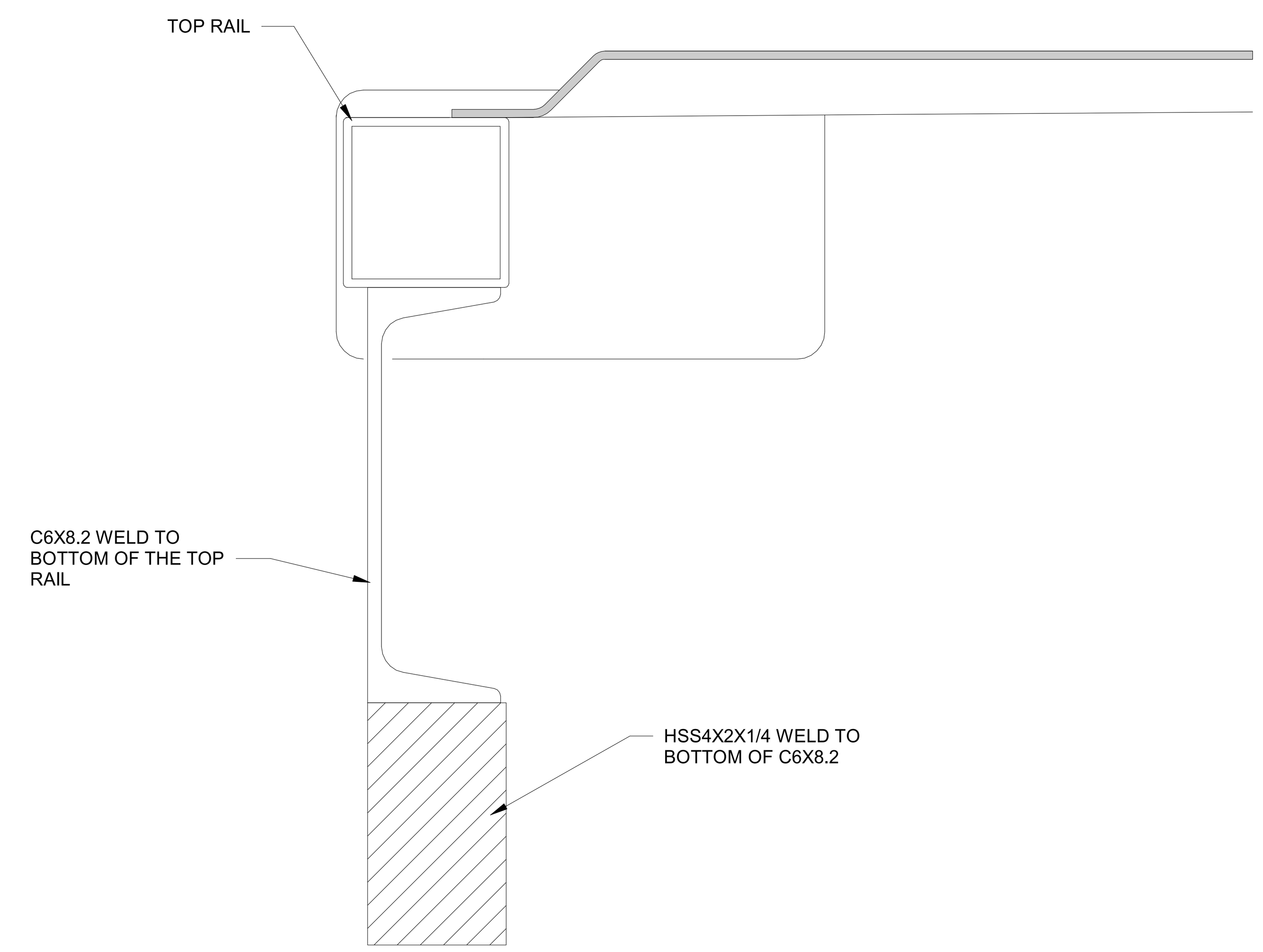
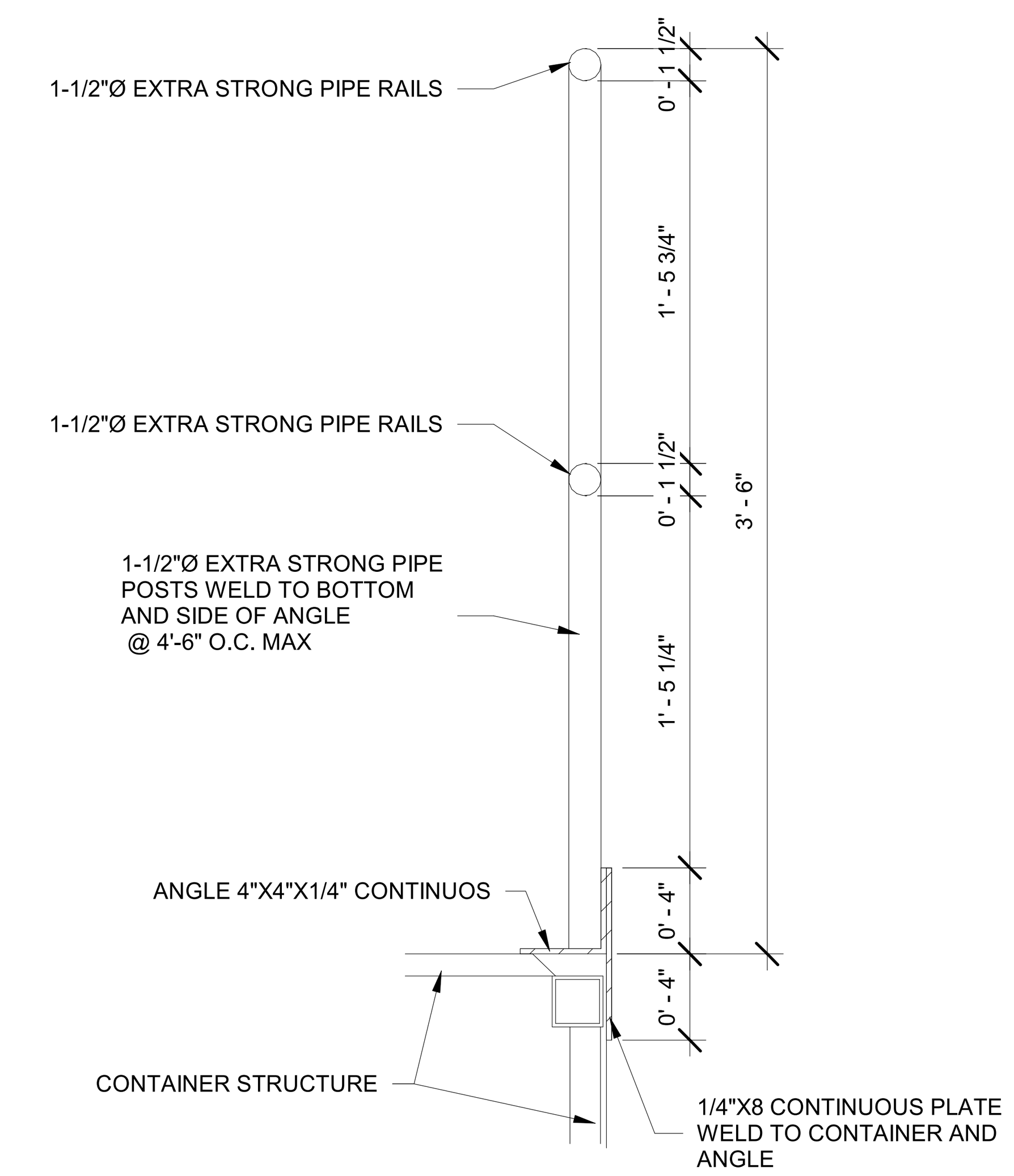
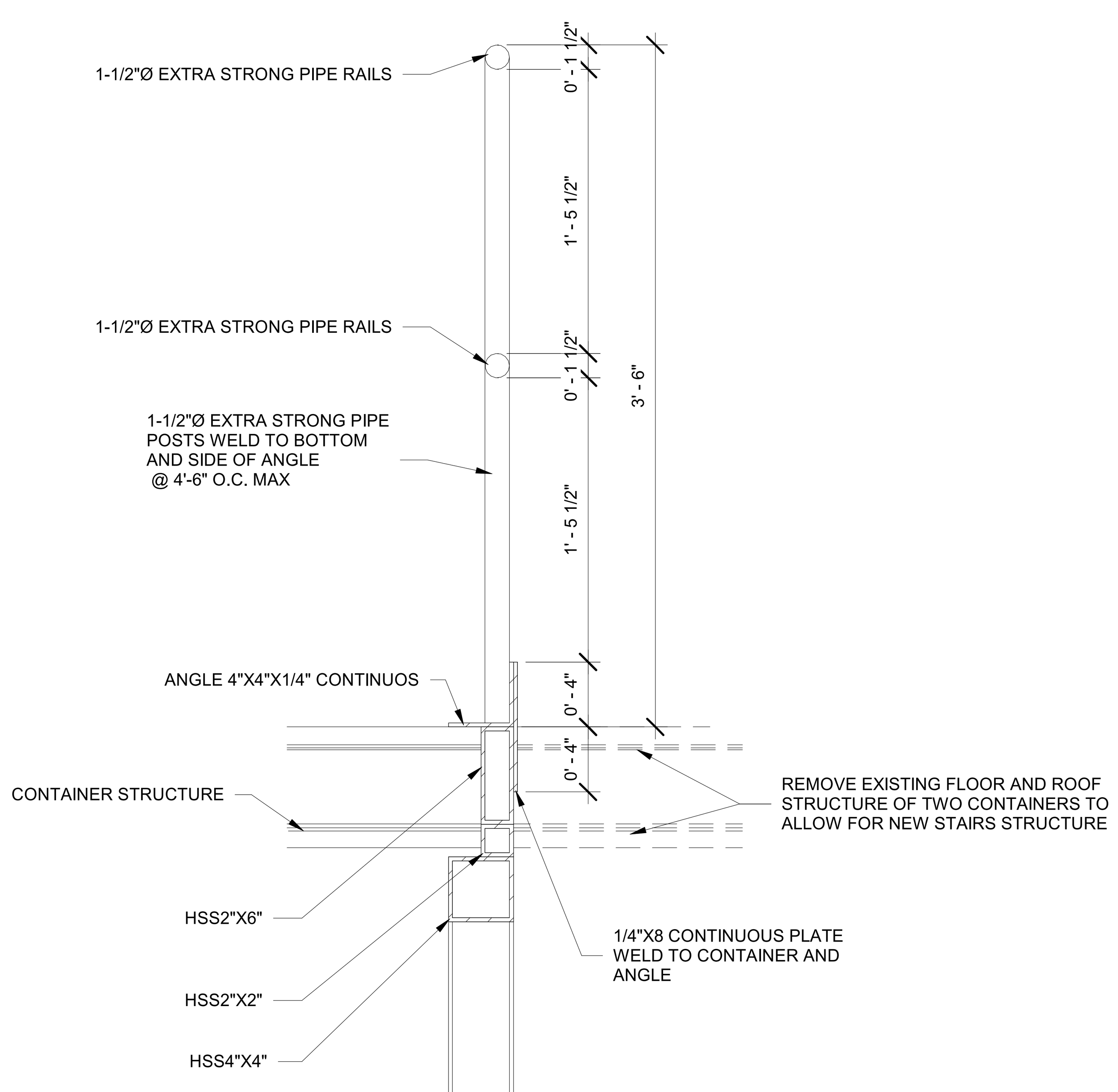


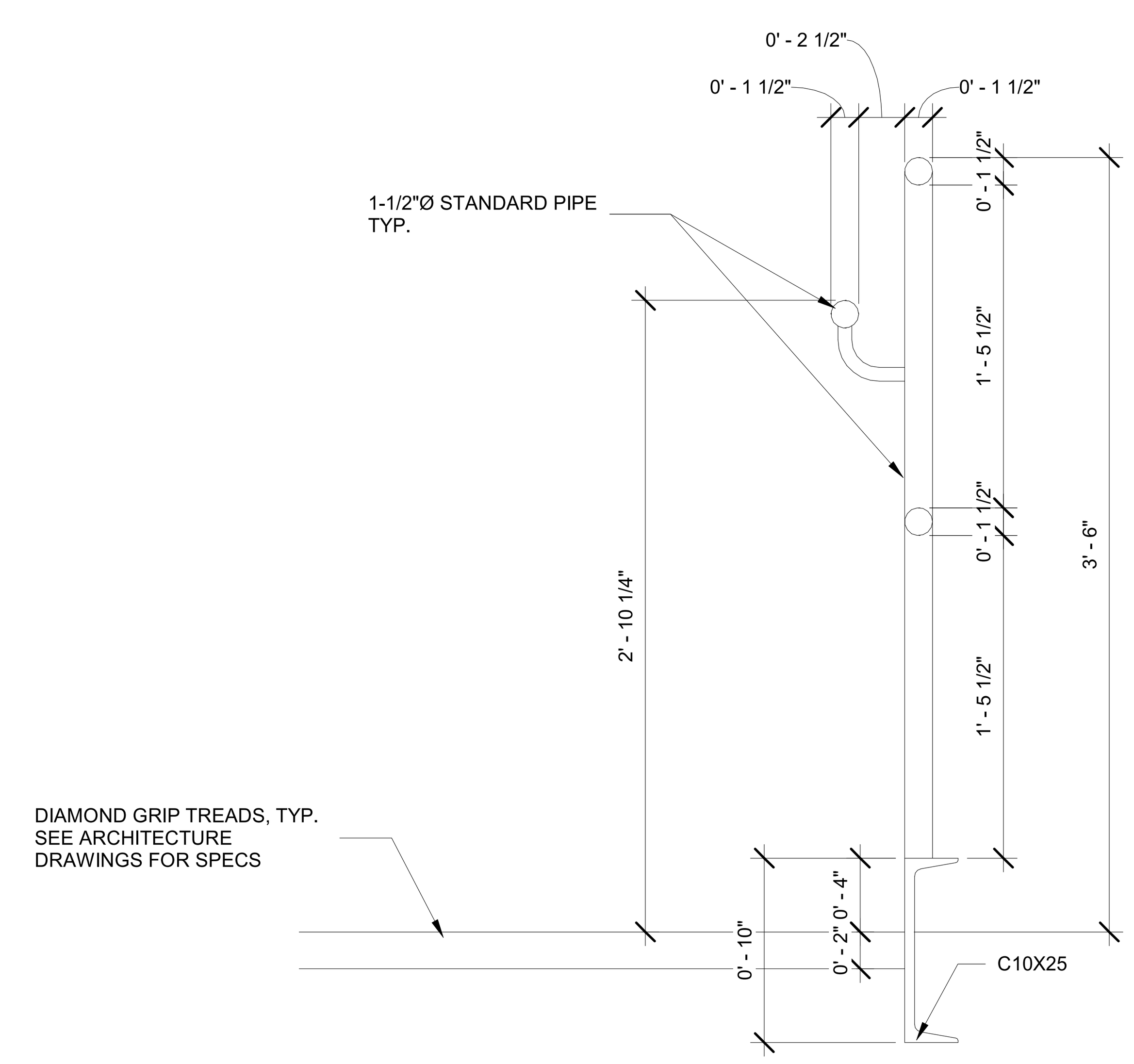
1 TOP RAIL STIFFENING
6" = 1'-0"



2 ROOF GUARDRAIL - TOP OF CONTAINER
1 1/2" = 1'-0"

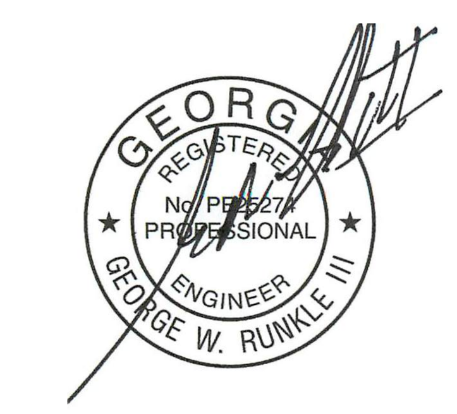


3 INTERIOR STAIR GUARDRAIL INSIDE CONTAINERS
1 1/2" = 1'-0"



4 STAIR TOWER HANDRAILS
1 1/2" = 1'-0"

General Notes



No.	Revision/Issue	Date

Firm Name and Address
RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

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AB

Project Name and Address
BURN BUILDING
LAGRANGE, GA

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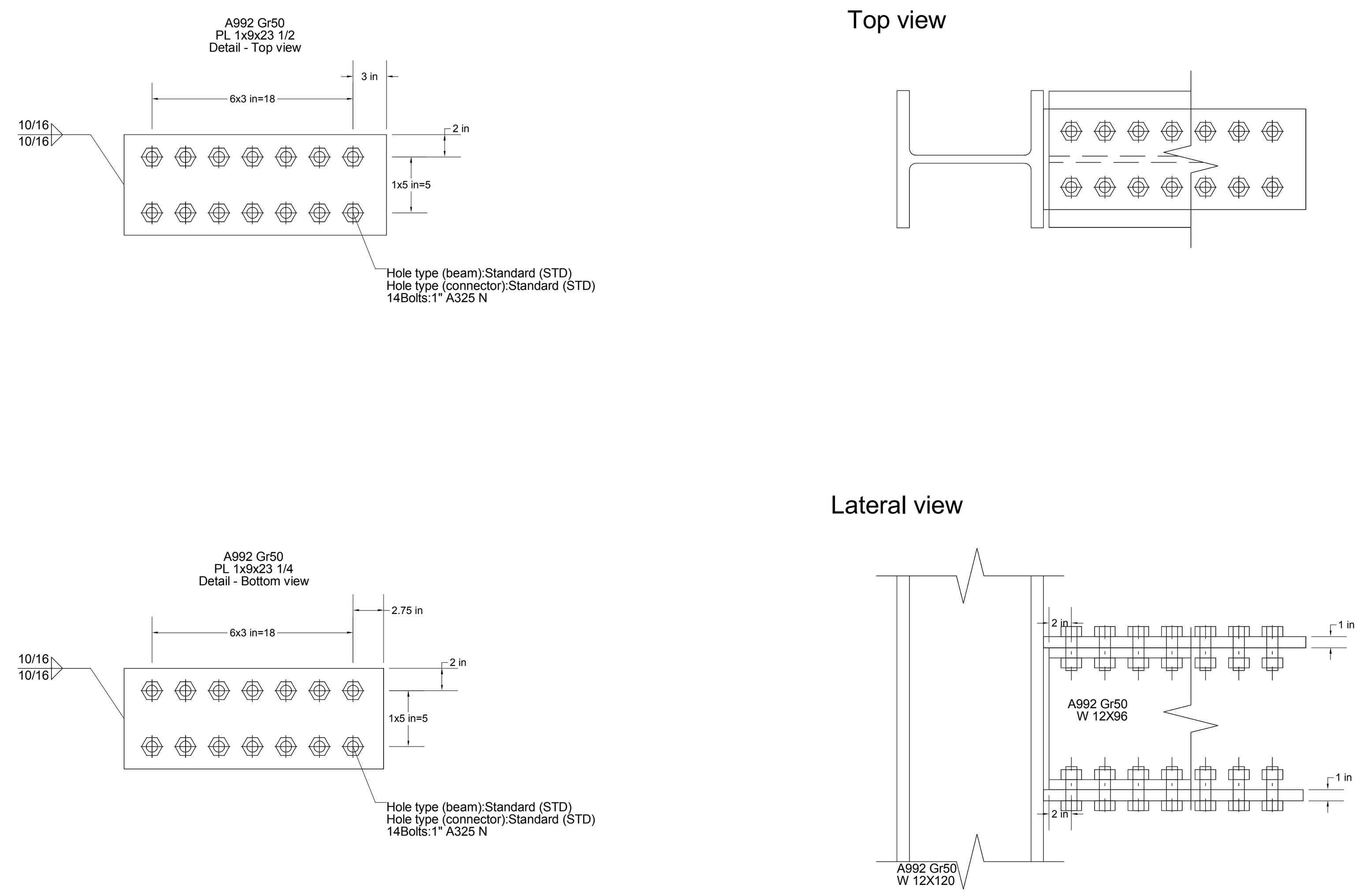
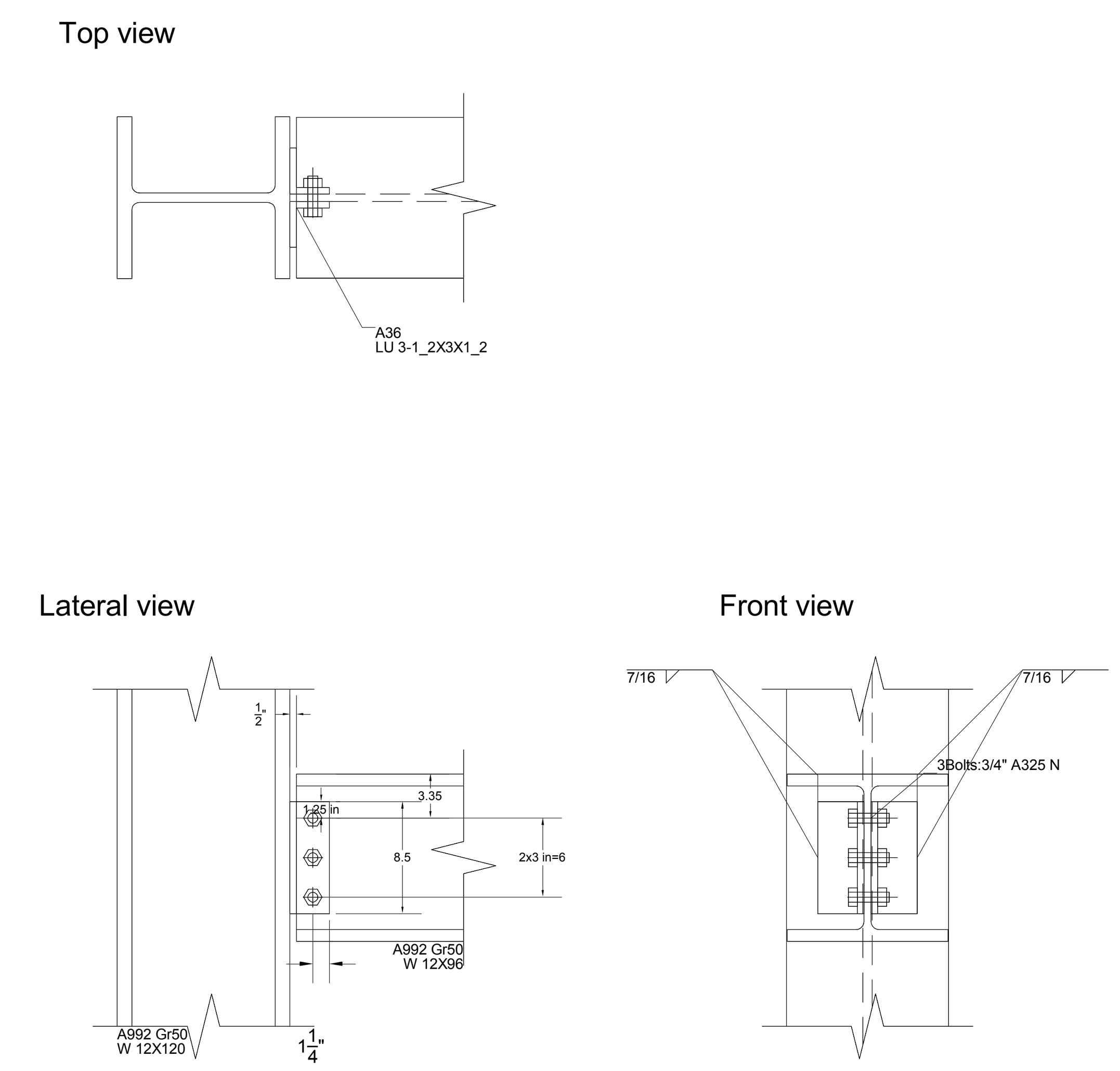
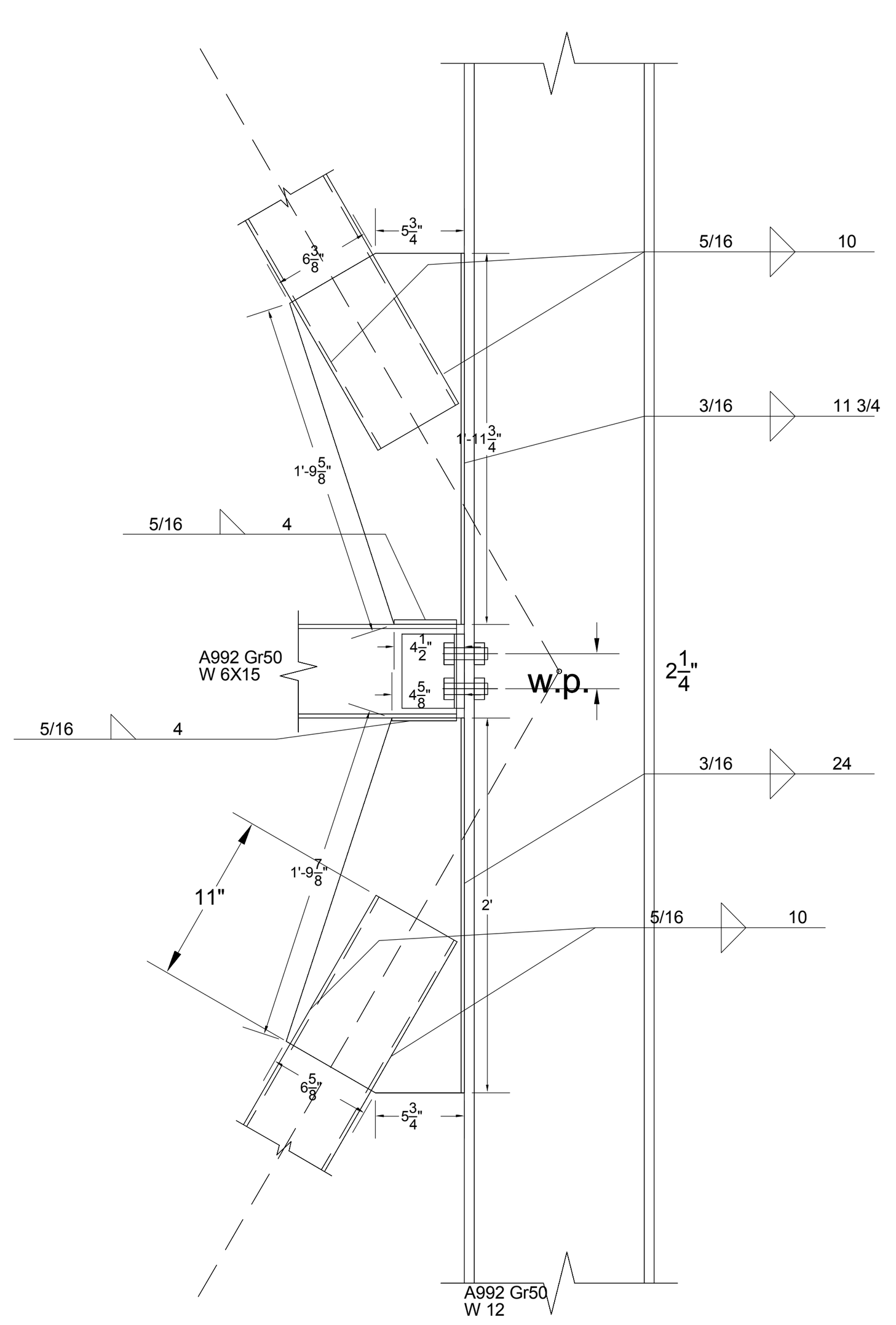


MOMENT FRAME FLANGE CONNECTION

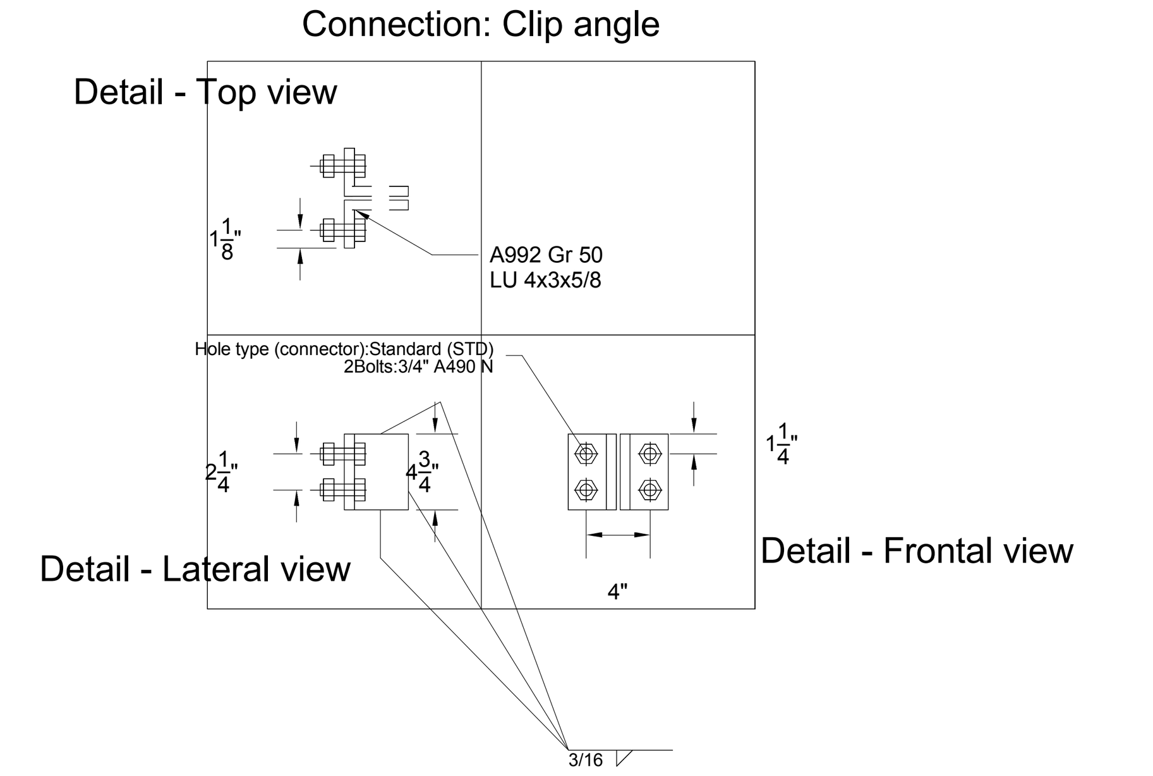


MOMENT FRAME WEB CONNECTION

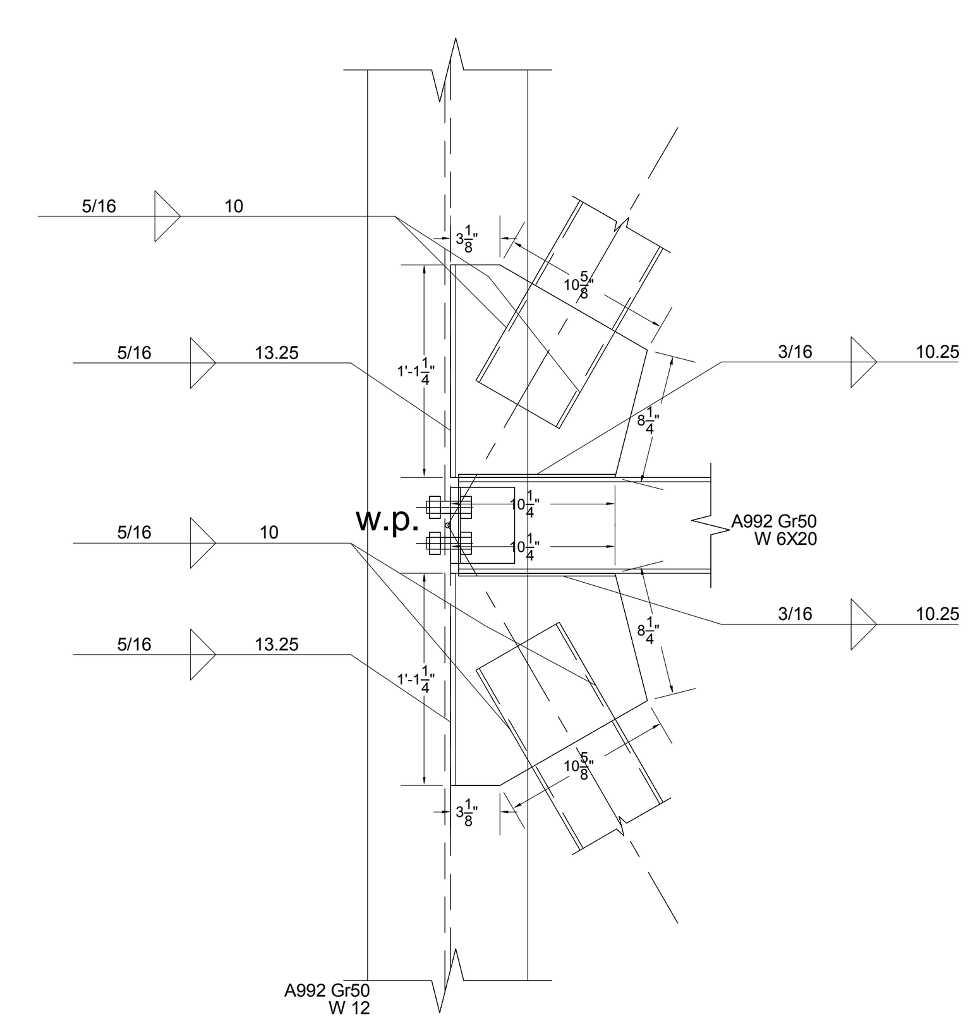
1 MOMENT FRAME CONNECTION
1" = 1'-0"



TYPICAL CROSS BRACE TO FLANGE



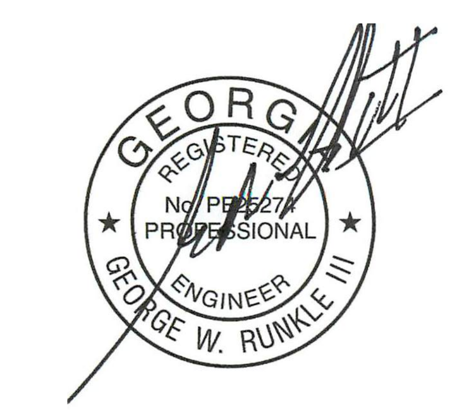
TYPICAL CROSS BEAM CONNECTION AT CROSS BRACE



TYPICAL CROSS BRACE TO WEB

2 CROSS BRACE CONNECTION TYP.
1" = 1'-0"

General Notes



No.	Revision/Issue	Date

Firm Name and Address

RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

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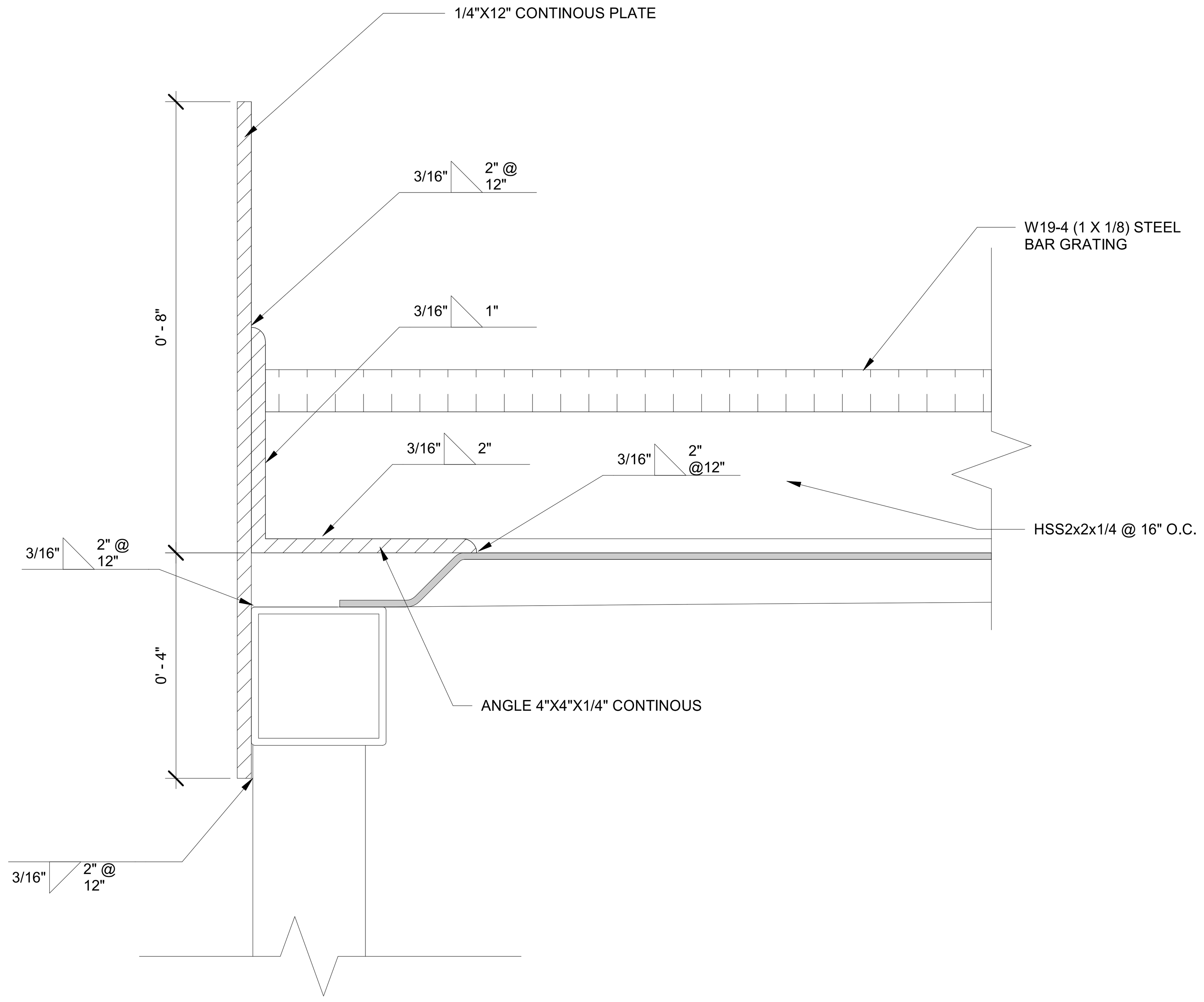
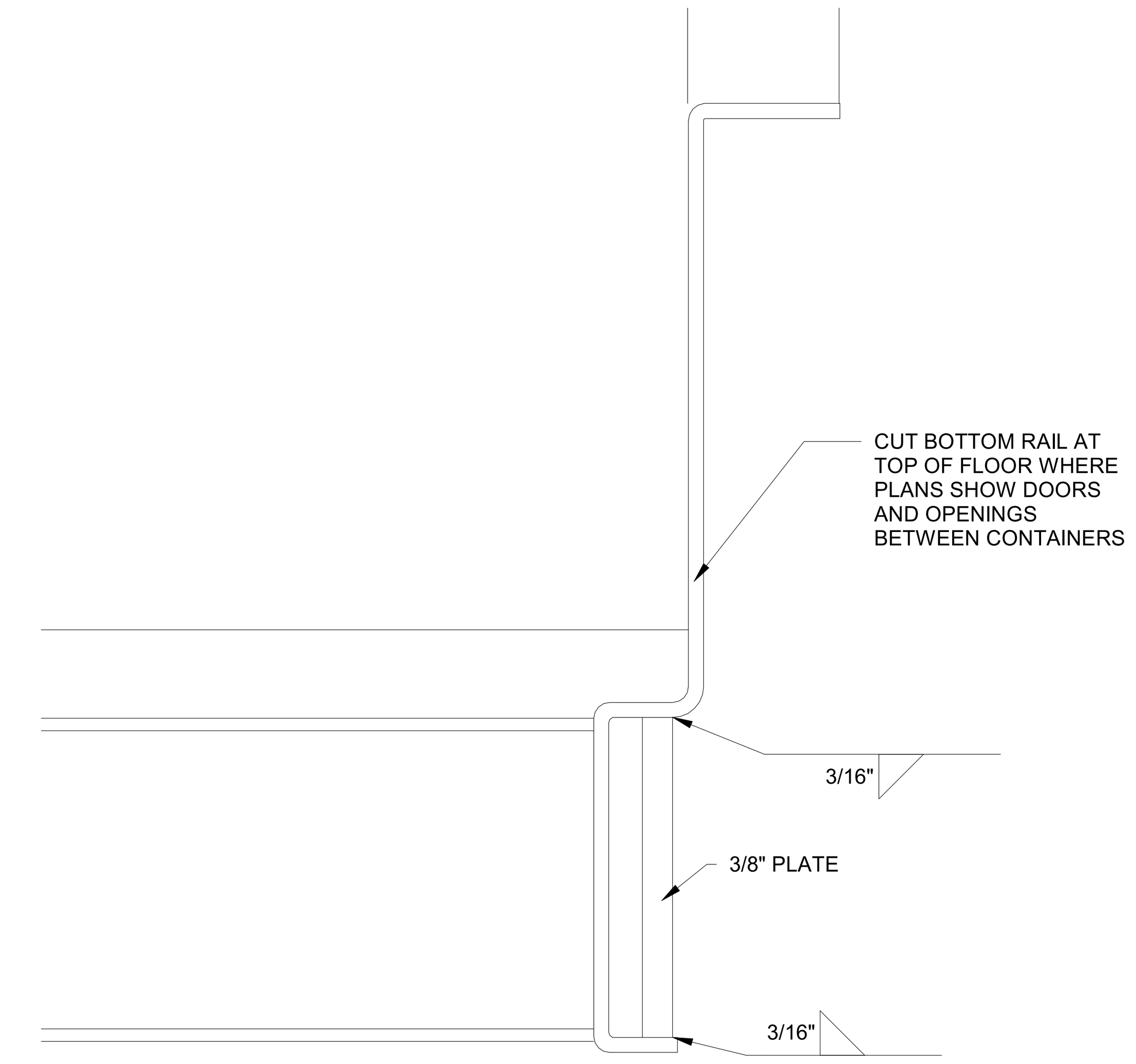
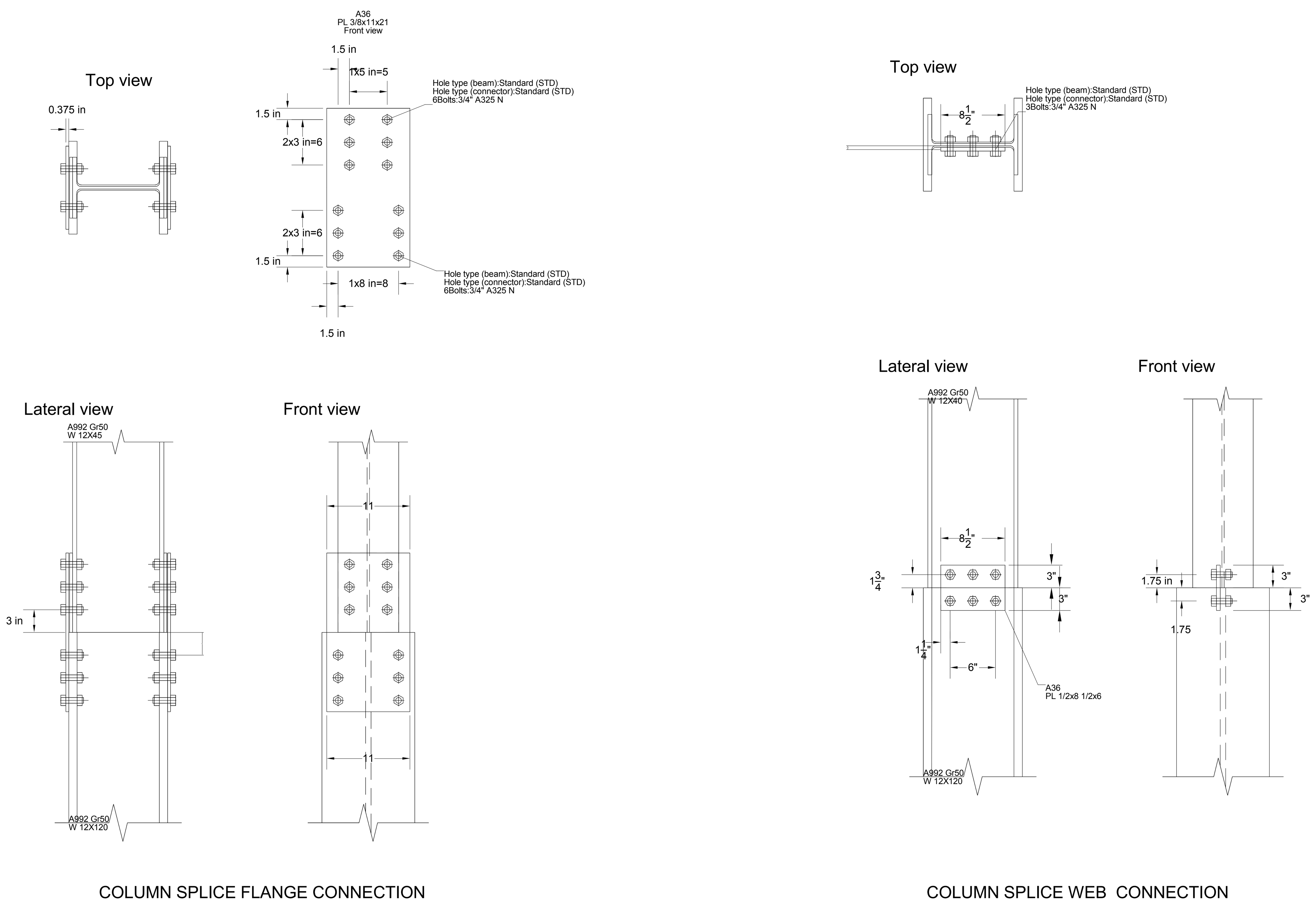


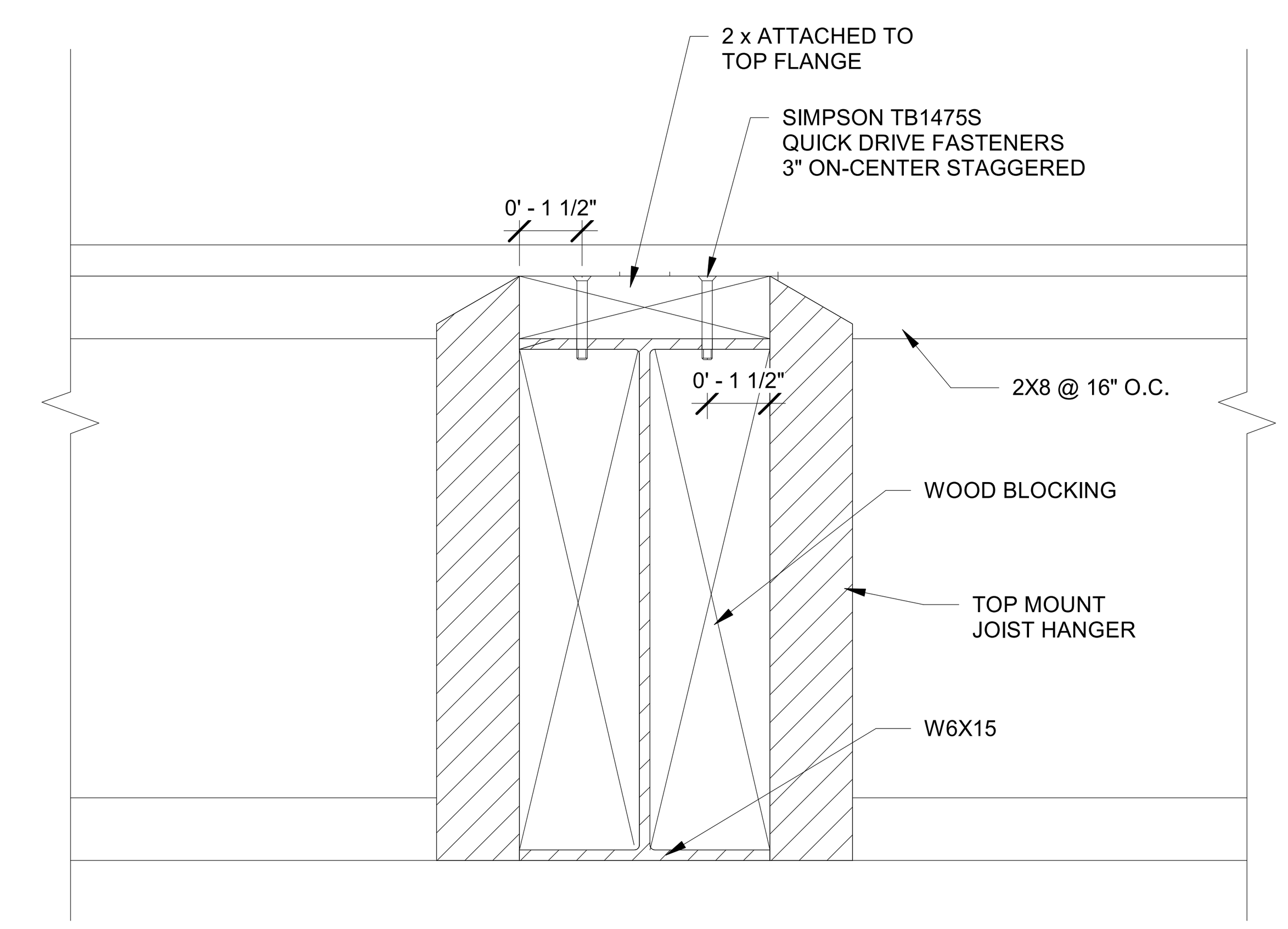
1 TYPICAL CONTAINER ROOF DECK
6" = 1'-0"



2 BOTTOM RAIL STIFFENING FOR COLUMN
6" = 1'-0"

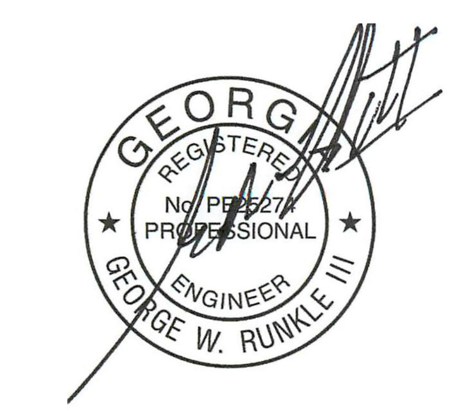


3 COLUMN SPLICE
1" = 1'-0"



4 JOIST MOUNT
1 1/2" = 1'-0"

General Notes



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RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

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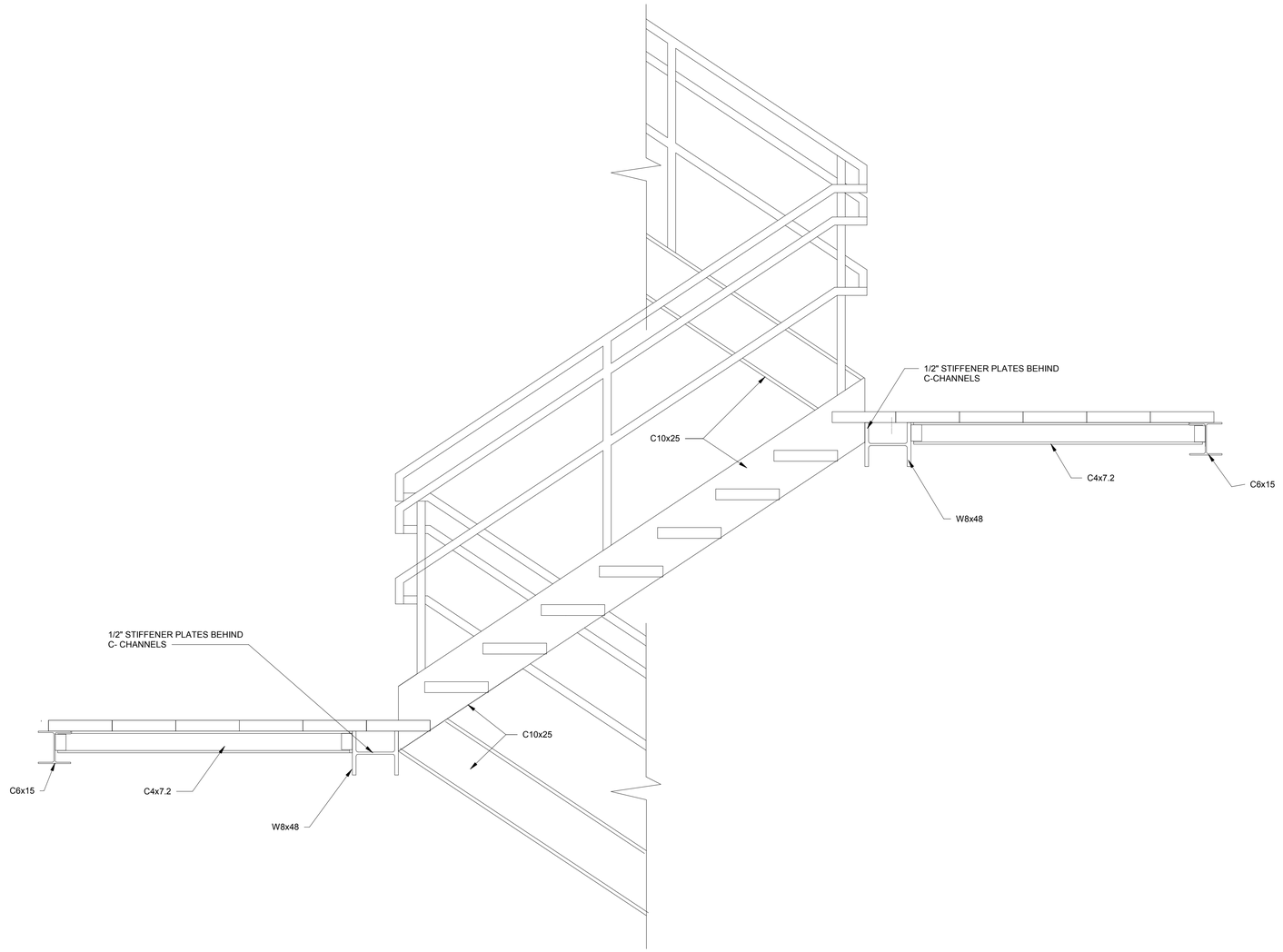

1 STAIRS
1" = 1'-0"

General Notes

GEORGE W. RUNKLE III
REGISTERED
No. PE022174
PROFESSIONAL
ENGINEER

No.	Revision/Issue	Date

Firm Name and Address

RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

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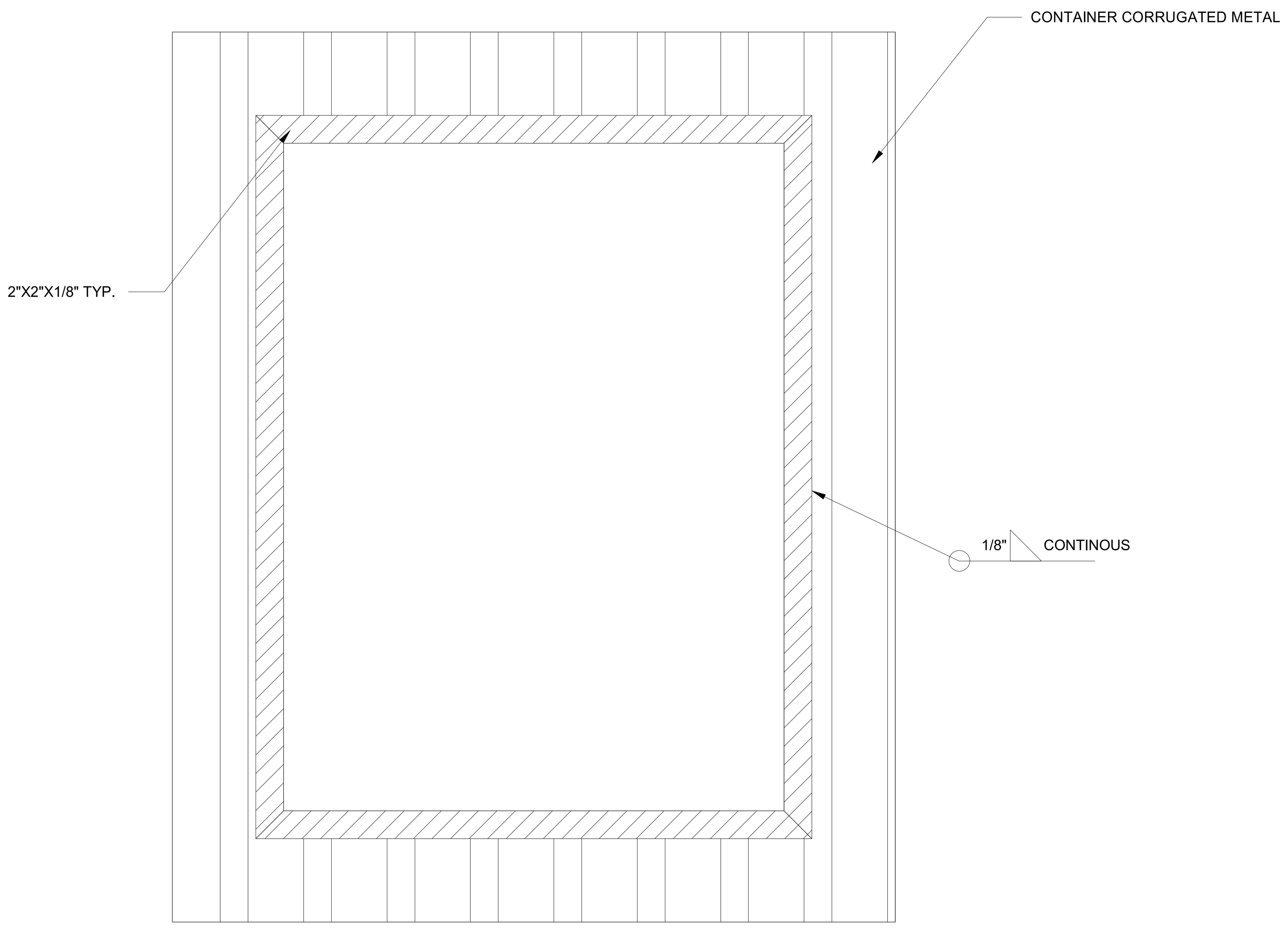
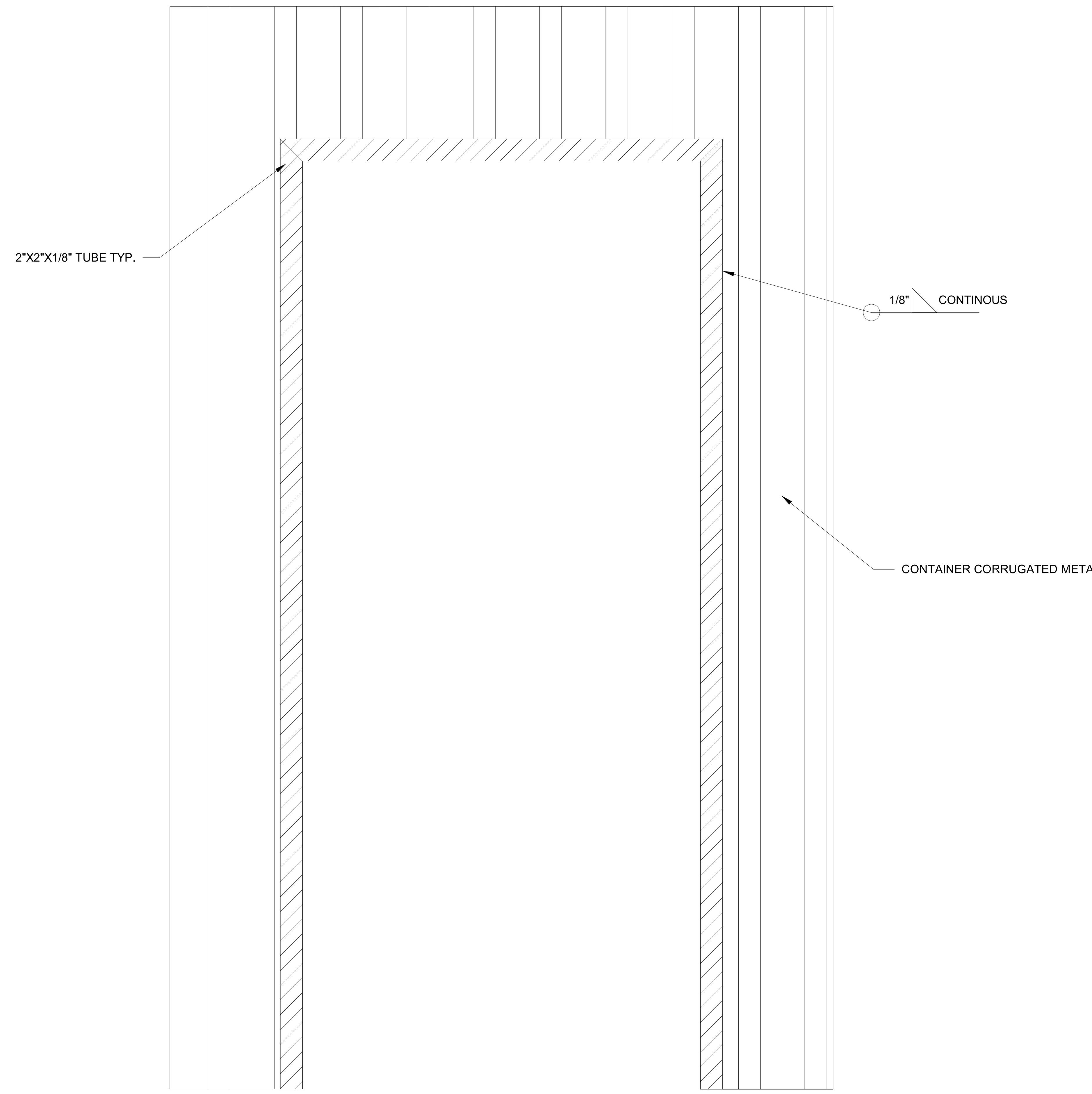
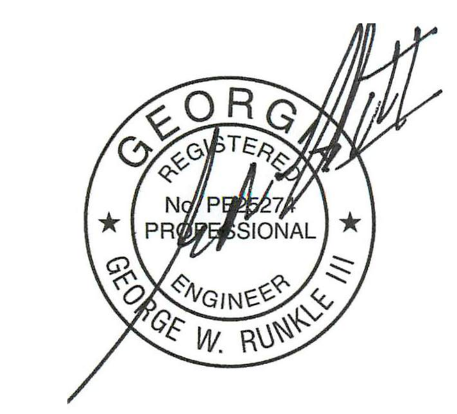


3 CONTAINER WINDOW FRAMING TYP.
1 1/2" = 1'-0"



2 CONTAINER DOOR FRAMING TYP.
1 1/2" = 1'-0"

General Notes



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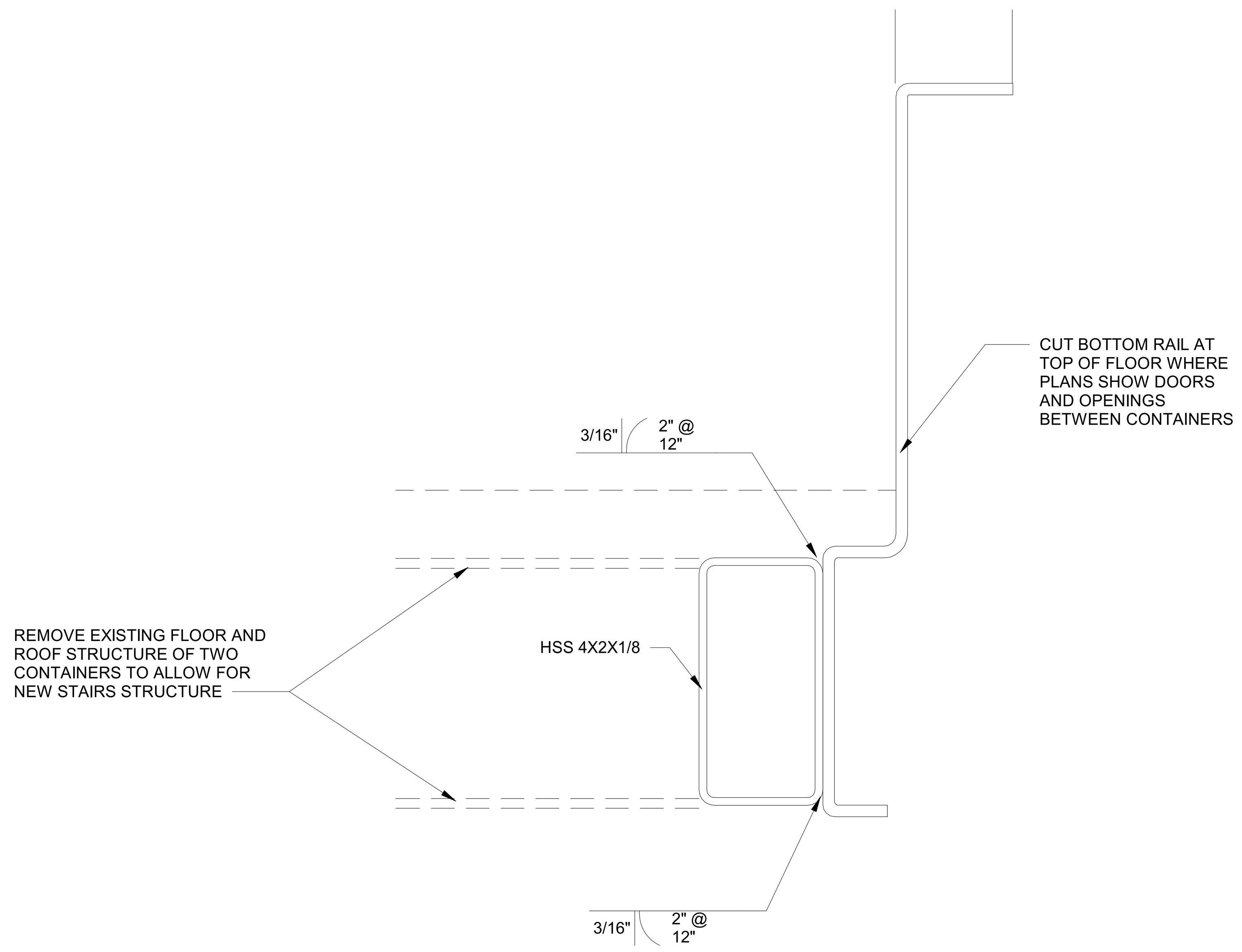
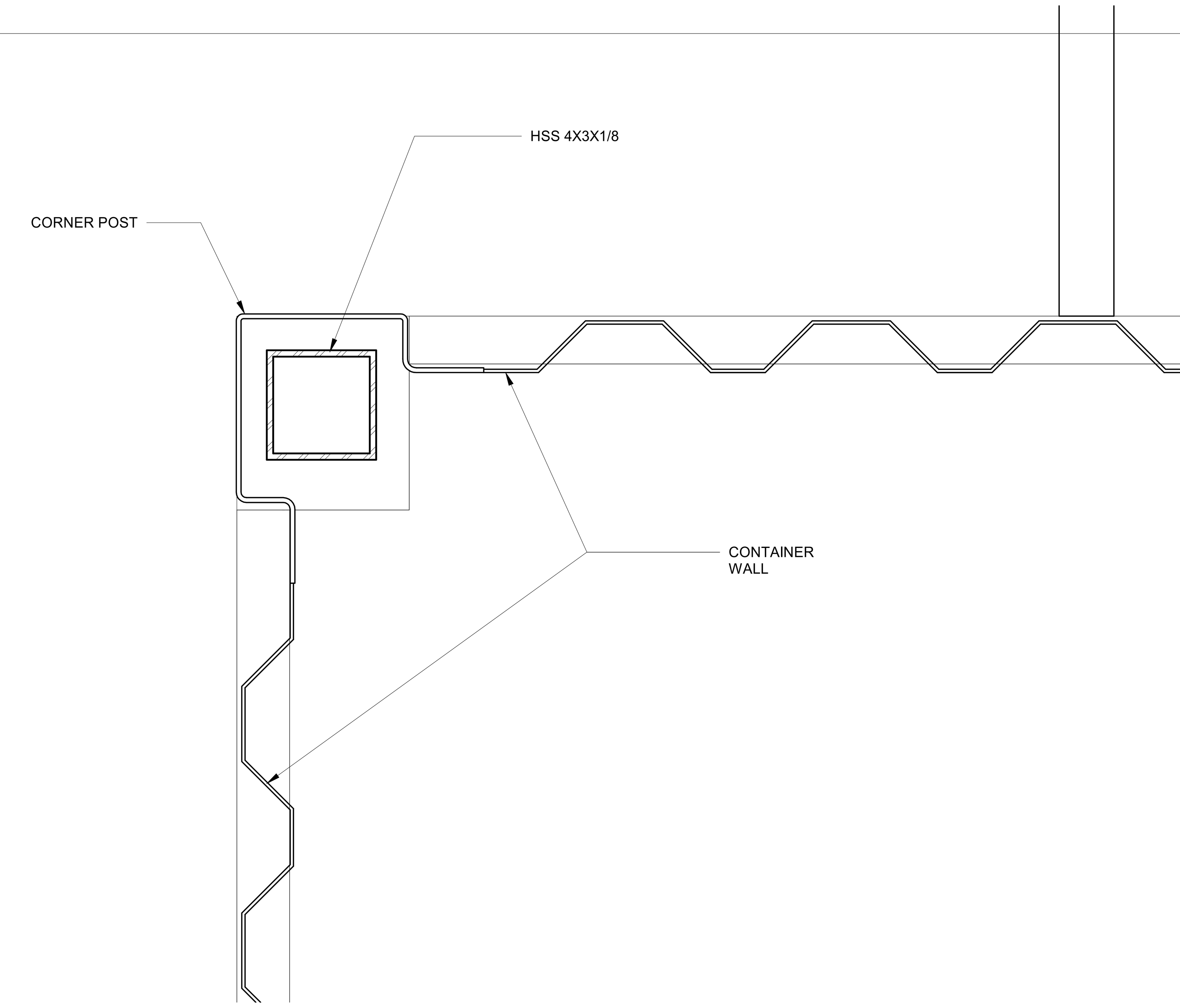
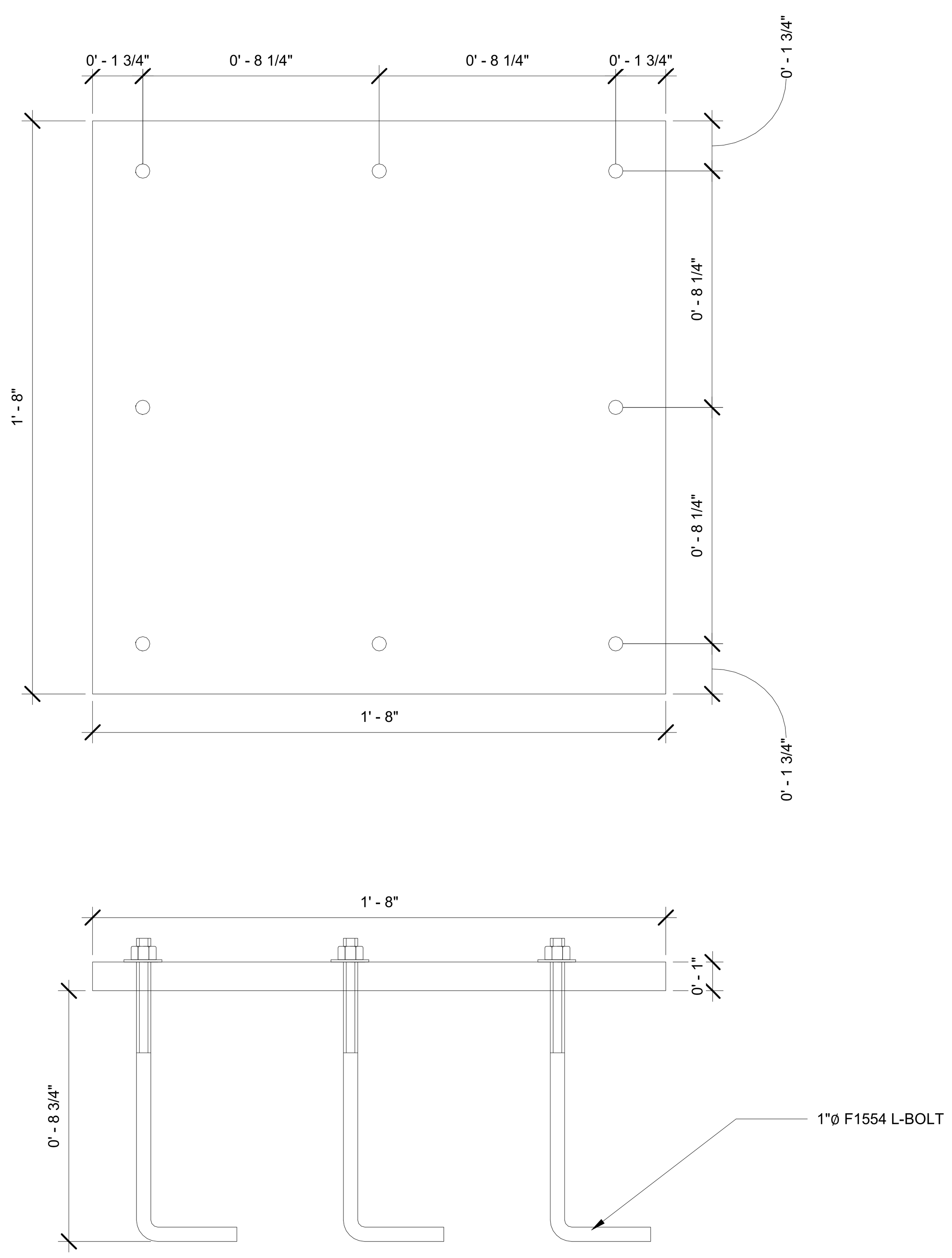


1 BOTTOM RAIL STIFFENING FOR STAIR OPENING
6" = 1'-0"



2 CORNER POST STIFFENING
3" = 1'-0"



3 BASEPLATE
3" = 1'-0"

General Notes

No.	Revision/Issue	Date

Firm Name and Address

RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

DRAWN:
AB

Project Name and Address

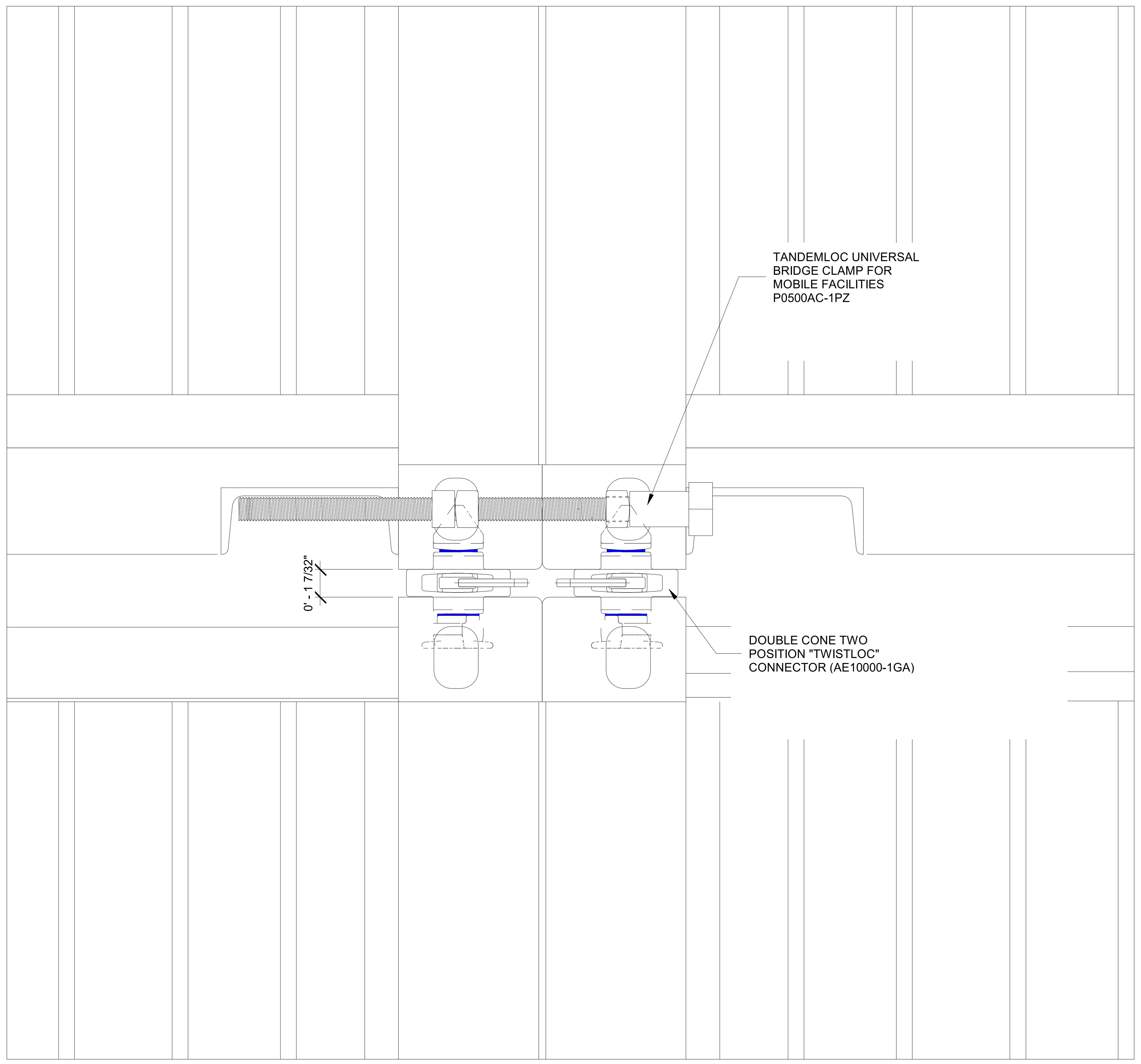
BURN BUILDING
LAGRANGE, GA

Project
Preliminary Plans

Date
02/26/18

Scale
N/A

Sheet
S19

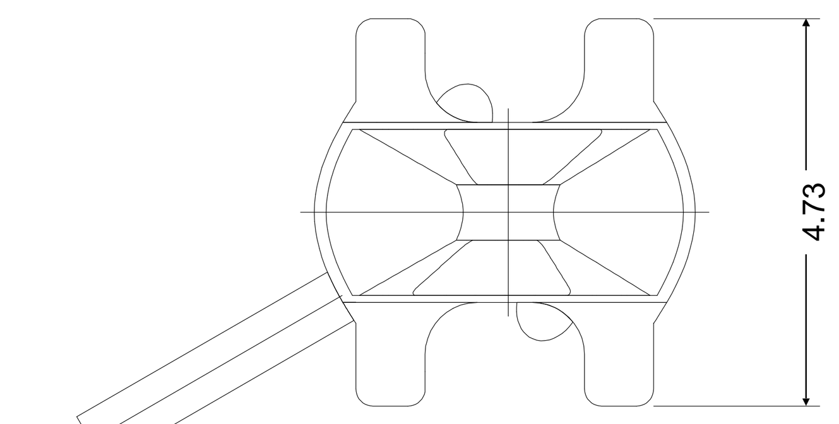


3 CORNER CASTING CONNECTION
3" = 1'-0"

DOUBLE CONE TWO POSITION TWISTLOC WITH "PRELOC" FEATURE (AE10000A-1GA)

Cage Code: 65059 | Drawing No: SAE10000A-1GA | Revision: - | Sheet: 1 of 1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES
SEE ELECTRONIC PARTS LIST FOR BILL OF MATERIALS



NOTES:
1. MIN. BREAKING LOADS TENSION 112,000 LBS / 94,000 LBS
2. PRE-LOCKING FUNCTION OF LOWER CONE
3. LEFTHAND LOCKING AS STANDARD, RIGHTHAND LOCKING ON REQUEST
4. HOTDIP GALVANIZED
5. CALCULATED WEIGHT: 12.1 LBS
6. INTERNAL LOCKING MECHANISM MADE OF STAINLESS STEEL COMPONENTS

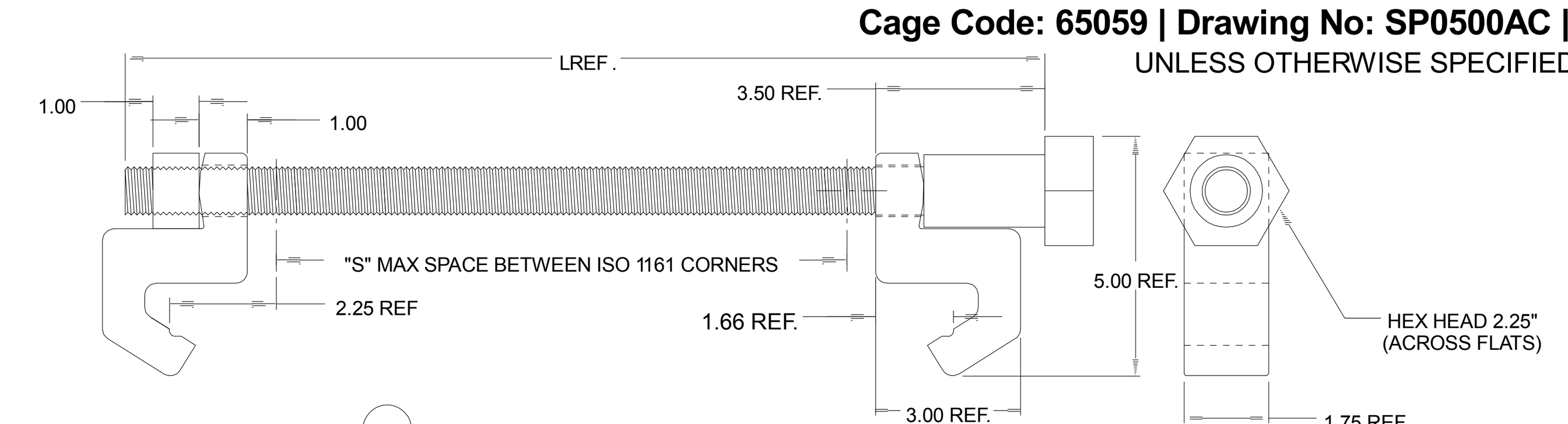
Email: **info@tandemloc.com • www.tandemloc.com**
824 Highway 101 • Havelock, NC 28532
TEL: 1.800.258.7324 (252.447.7155)
FAX: 1.800.892.3273 (252.447.5502)

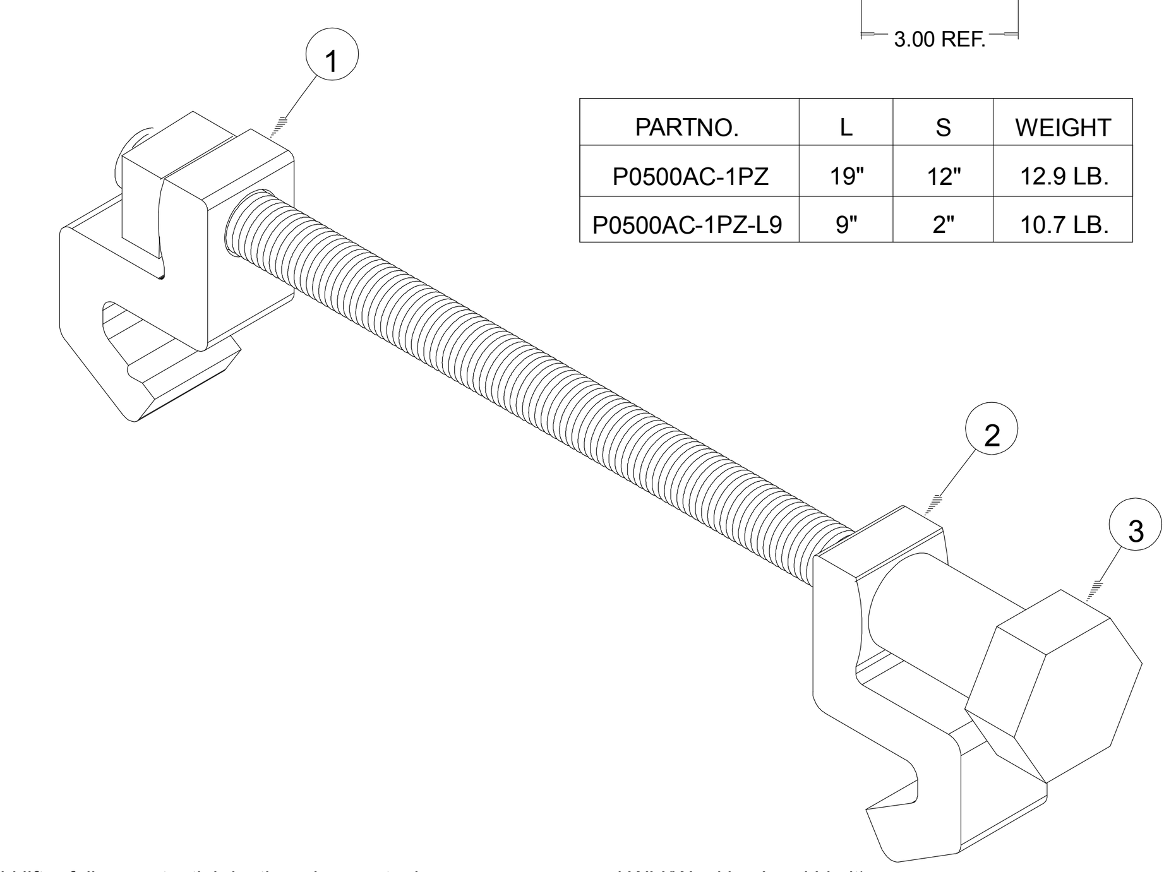
1 VERTICAL TANDEMLOC
3/16" = 1'-0"

UNIVERSAL BRIDGE CLAMP FOR MOBILE FACILITIES (P0500AC-1PZ)

Cage Code: 65059 | Drawing No: SP0500AC | Revision: E | Sheet: 1 of 1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES





PARTNO.	L	S	WEIGHT
P0500AC-1PZ	19"	12"	12.9 LB.
P0500AC-1PZ-L9	9"	2"	10.7 LB.

NOTES:
1. P/N: P0500AC-1PZ UNIVERSAL BRIDGE CLAMP (L=19")
   P/N: P0500AC-1PZ-L9 UNIVERSAL BRIDGE CLAMP (L=9")
2. FOR CLAMPING ANY APERTURE OF TOP OR BOTTOM ISO 1161 CORNER FITTINGS UP TO "S" INCHES APART.
3. TO OPERATE, ADJUST SPAN OF ITEM 1 TO PRESENT SPAN BETWEEN CORNER FITTINGS BY TURNING ITEM 3 COUNTER-CLOCKWISE TO LENGTHEN AND CLOCKWISE TO SHORTEN. PLACE ITEMS 1 AND 2 INTO THE DESIRED APERTURES OF THE CORNER FITTINGS. TURN HEX ON ITEM 3 USING A 2.25" DRIVE UNTIL CONTAINERS ARE AT DESIRED SPACING.
4. MAX SAFE WORK LOAD WITHOUT YIELD: 200 FTLBS OF TORQUE (20,000 LBS TENSION) WHEN ENGAGED TO THE RIGIDLY AFFIXED CORNERS OF ISO FREIGHT CONTAINERS.

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	ADDED 2D DWG & DIM DATA.	5/1/98	MD
B	ADDED WEIGHT	5/1/98	MD
C	LOAD RATING WAS "SWL: 200 FT. LB. OF TORQUE 20,000 LB TENSION"	10/19/07	MD
D	ADDED -1ZN-L9 PART WITH DATA	11/13/07	MD
E	-1PZ & -1PZ-L9 WAS SHOWN AS -1ZN & -1ZN-L9 RESPECTIVELY IN 3 PLACES	01/15/08	WT

To avoid lifter failure, potential death and property damage, never exceed WLL (Working Load Limit)
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824 Highway 101 • Havelock, NC 28532
TEL: 1.800.258.7324 (252.447.7155)
FAX: 1.800.892.3273 (252.447.5502)

Tandemloc designs, manufactures and tests lifting, securing and mobilizing components for all industries. See our website for details and important safety information.

Read all safety labels and instructions prior to use. Product to be used by qualified personnel only

2 HORIZONTAL TANDEMLOC
3/16" = 1'-0"

General Notes

No.	Revision/Issue	Date

Firm Name and Address

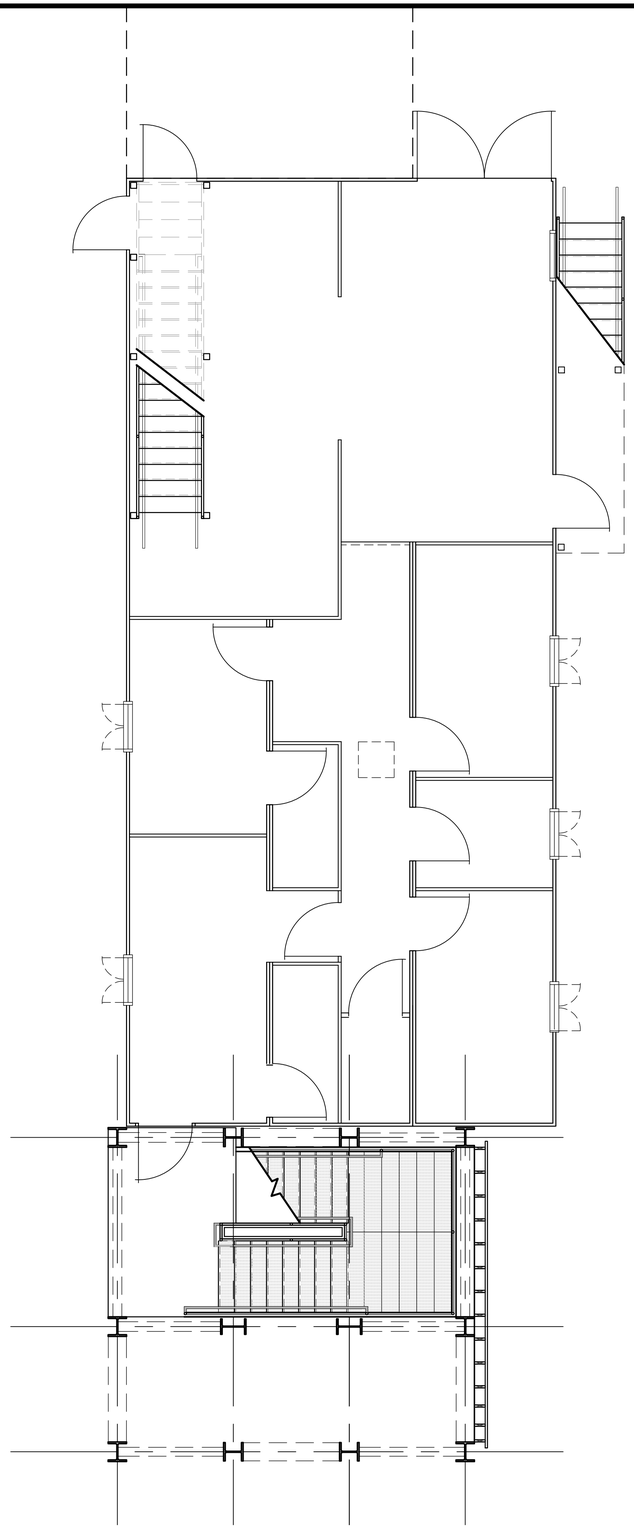
RUNCON, INC.
930 NEW HOPE ROAD, STE11-145
LAWRENCEVILLE, GA 30045
678-225-4900

DRAWN:
AB

Project Name and Address

BURN BUILDING
LAGRANGE, GA

Project	Sheet
Preliminary Plans	S20
Date: 02/26/18	
Scale: N/A	



1 AS-1 **FOUNDATION PLAN**
SCALE: 1/4" = 1'-0"

KEYNOTES

1. INTERIOR OF ROOM IS LINED WITH FIRE AND WATER RESISTANT INSULATION AND COVERED WITH 1/4" PLATE STEEL PLATES OR STAINLESS STEEL PANELS. SEE ADDITIVE ALTERNATIVES. INSTALL ON ALL FLOORS, CEILINGS AND WALLS IN BURN ROOMS.

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

DESIGN LOADS

ROOF LIVE LOAD:	100PSF
FLOOR LIVE LOAD:	100 PSF
WIND LOAD:	LOCAL
SEISMIC DESIGN CAT:	LOCAL
SITE CLASS:	LOCAL
DESIGN CODE:	LOCAL & NFPA 1402

WALL TYPES

1. BURN ROOM INTERIOR WALL (SEE 7/A1-6)
2. BURN ROOM EXTERIOR WALL, CEILING AND FLOOR SEE DETAIL 2/A1-8
3. NON-BURN ROOM INTERIOR WALL AND DOOR
4. BURN ROOM INSULATED DOOR WITH 1/4" STEEL PLATE BOTH SIDES
5. INSULATED WINDOW SHUTTERS SIMILAR TO BURN ROOM DOORS WITH LOCKING MECHANISM EXCEPT WITH 1/2" PLATE STEEL BOTH SIDES.

BURN ROOM: INSULATE THE FLOOR, WALLS, CEILING, DOORS & WINDOW SHUTTERS OF THIS SPACE.

REVISIONS

	DATE	DESCRIPTION

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

FOUNDATION PLAN

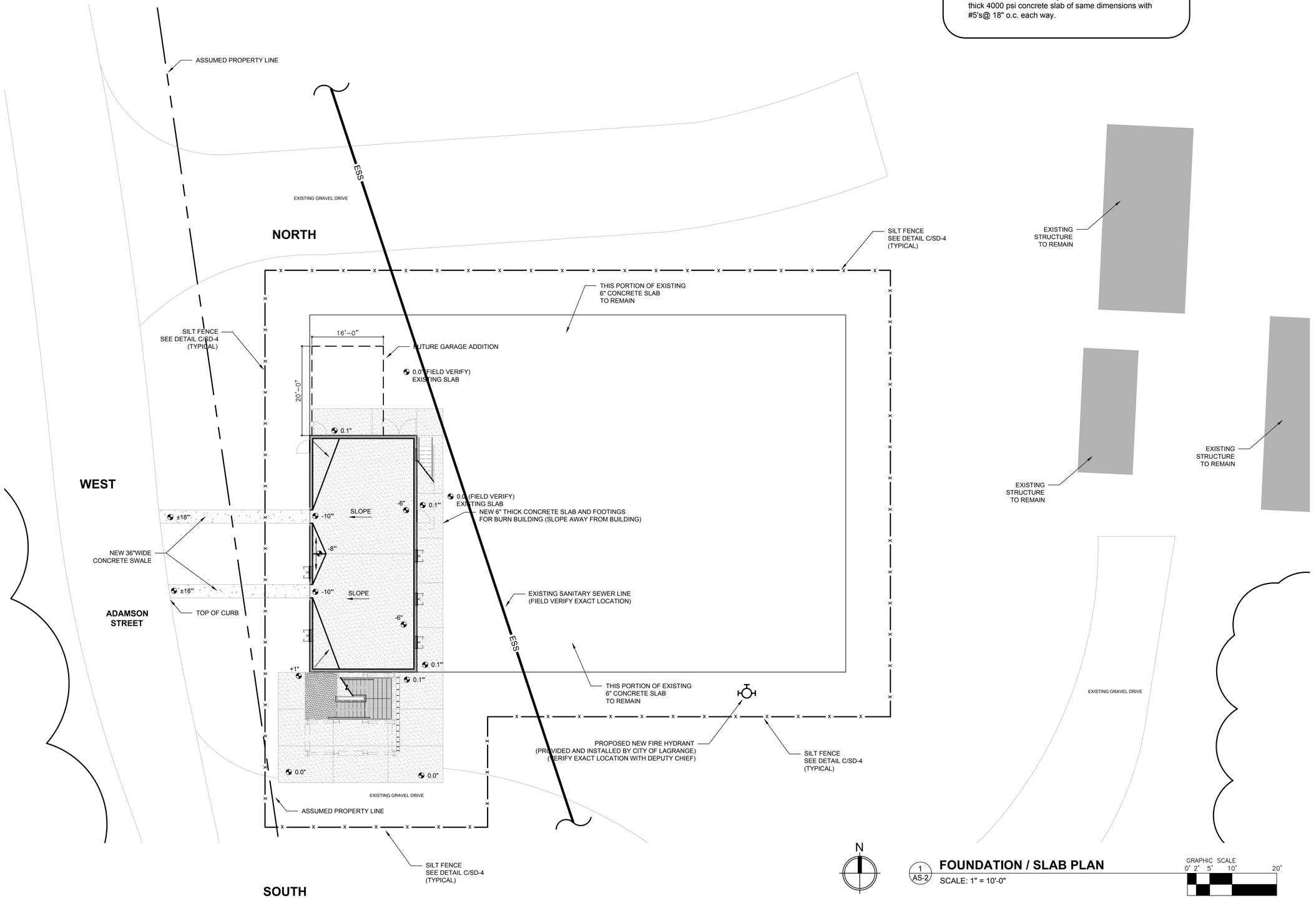
MODIFIED DATE: 01 JAN 2025

ISSUED DATE: FOR BIDDING 26 FEB 2018

JOB NO: 1730

SHEET: **AS-1**

2.2.5 **Add. Alt. No. 5:** To remove existing perimeter 6" concrete slab in its entirety from the site and install new 6" thick 4000 psi concrete slab of same dimensions with #5's@ 18" o.c. each way.



N

1 AS-2 **FOUNDATION / SLAB PLAN**

SCALE: 1" = 10'-0"

GRAPHIC SCALE
0' 2' 5' 10' 20'

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH, JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

15' FOOT SOIL BORING

REVISIONS

	DATE	DESCRIPTION
1		

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING

TITLE:

FOUNDATION / SLAB PLAN

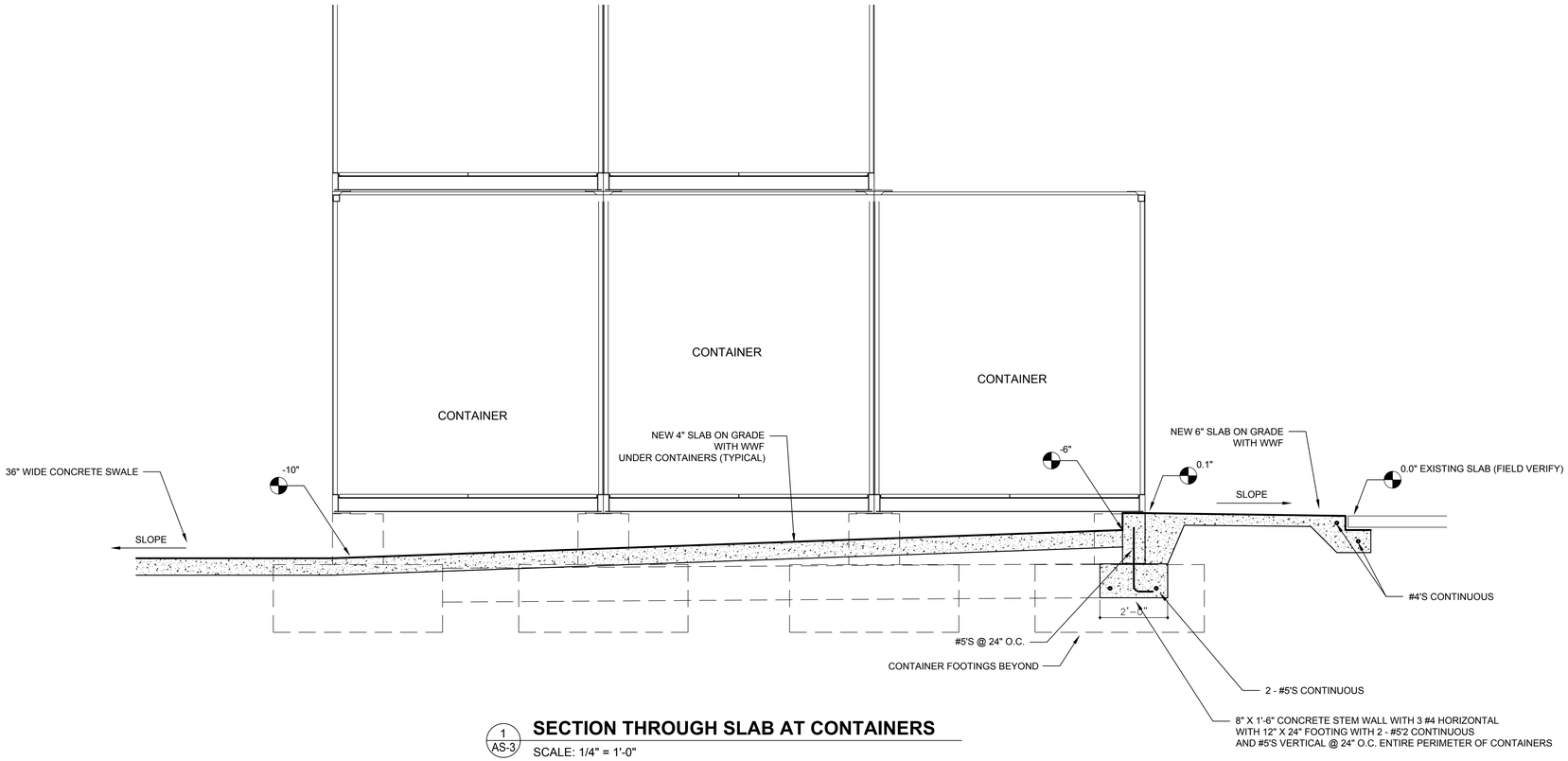
MODIFIED DATE:

ISSUED DATE:

SCHEMATIC DESIGN
26 FEB 2018

JOB NO:
1730

SHEET:
AS-2



1 / AS-3 **SECTION THROUGH SLAB AT CONTAINERS**

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

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

REVISIONS

⚠	DATE	DESCRIPTION

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

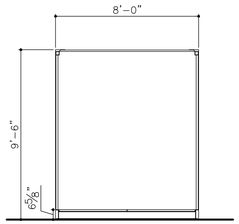
FOUNDATION SECTION

MODIFIED DATE:
01 JAN 2025

ISSUED DATE:
FOR BIDDING
26 FEB 2018

JOB NO:
1730

SHEET:
AS-3

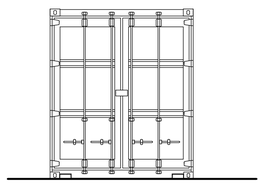


1 A1-0 **CROSS SECTION**

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

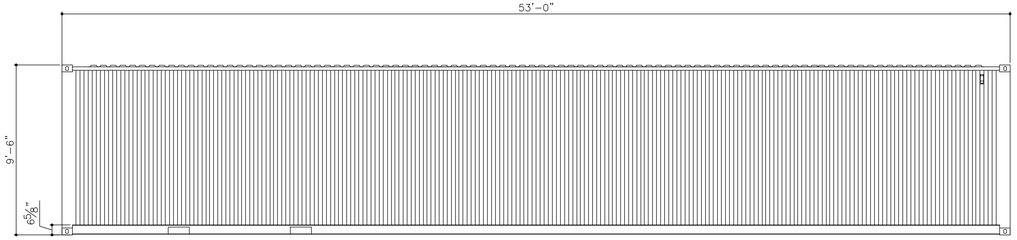
2 A1-0 **PLAN**

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



3 A1-0 **DOOR END**

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



4 A1-0 **SIDE ELEVATION**

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

NOTE:
GENERAL CONTRACTOR TO PURCHASE AND MODIFY USED 53' LONG CONTAINERS WITH 9'-6" HEIGHT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PURCHASE, ORDERING, DELIVERY AND MODIFICATION TO THE USED CONTAINERS. USED CONTAINERS ARE TO BE IN GOOD CONDITION WITH NO HOLES OR LARGE DENTS OR LARGE AMOUNTS OF RUST. ENTIRE EXTERIOR OF CONTAINERS TO BE PAINTED WITH ONE COAT OF RUST STOP AND 2 FINISH COATS OF PAINT.

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

REVISIONS

⚠	DATE	DESCRIPTION

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

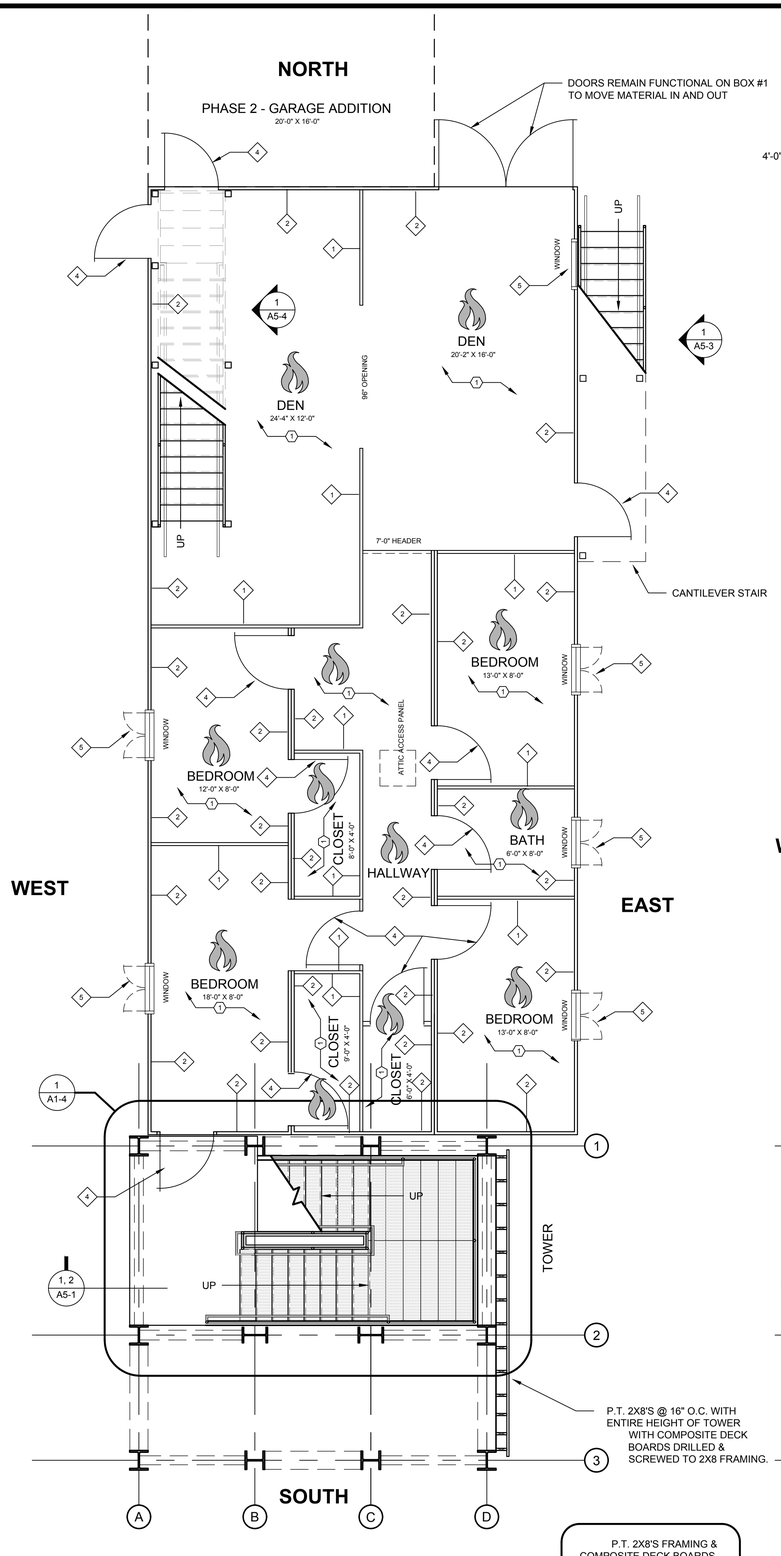
TYPICAL CONTAINER DIMENSIONS

MODIFIED DATE:

ISSUED DATE:
FOR BIDDING
26 FEB 2018

JOB NO:
1730

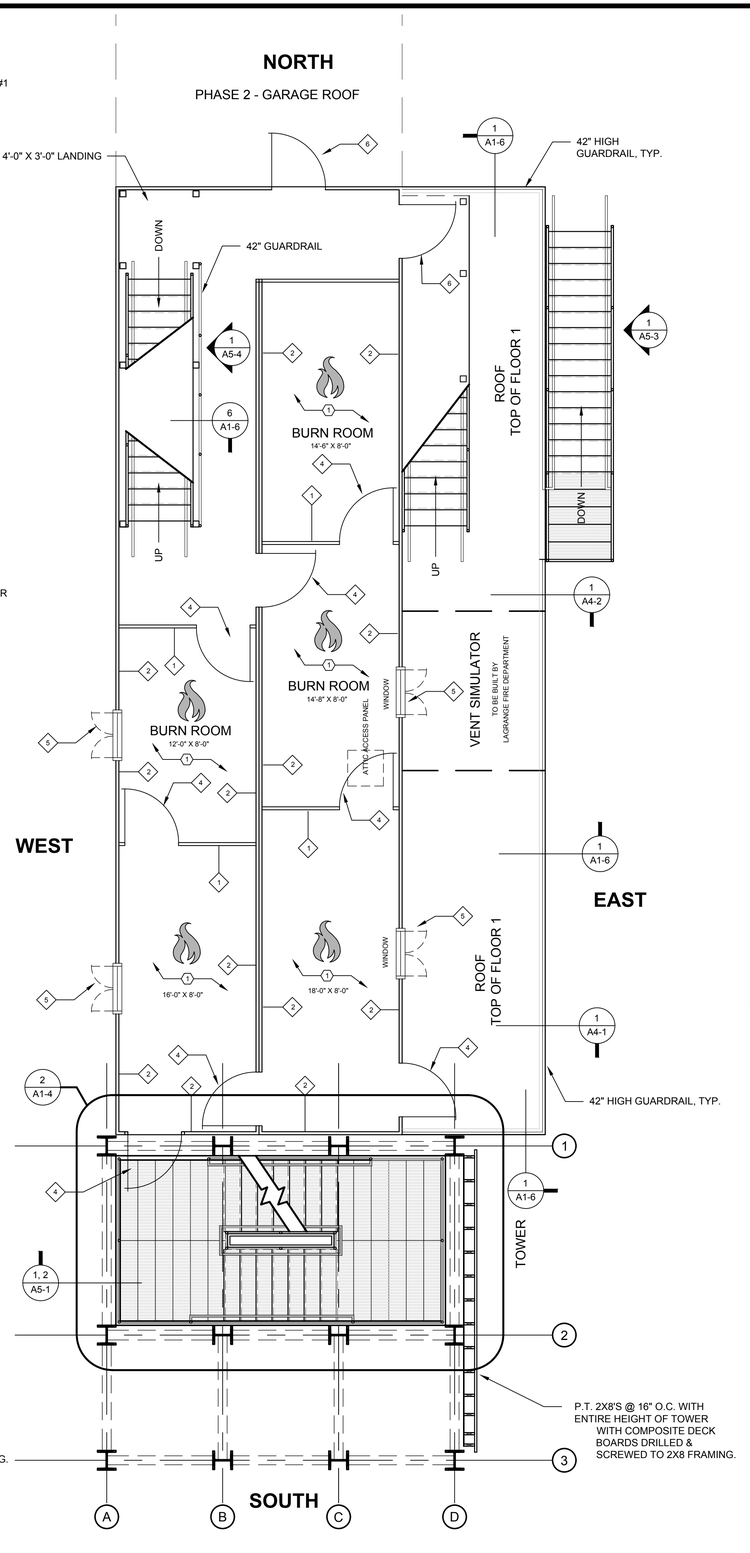
SHEET:
A1-0



1 A1-1 **FIRST FLOOR PLAN**

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

P.T. 2X8'S FRAMING &
COMPOSITE DECK BOARDS
PURCHASE & INSTALLTION
PART OF ADD. ALT. NO. 4



2 A1-1 **SECOND FLOOR PLAN**

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

KEYNOTES

1 INTERIOR OF ROOM IS LINED WITH FIRE AND WATER RESISTANT INSULATION AND COVERED WITH 1/4" PLATE STEEL PLATES OR STAINLESS STEEL PANELS. SEE ADDITIVE ALTERNATIVES. INSTALL ON ALL FLOORS, CEILINGS AND WALLS IN BURN ROOMS.

GENERAL SPECIFICATIONS

- General bids shall include a 5-year warranty on workmanship.
- Bids shall include a yearly inspection of such structure to repair and/or replace any defects in workmanship.

Wall Construction

- All walls shall be a minimal 2" thickness, finished size.
- All exterior walls and ceilings exposed to fire shall be insulated.
- All insulation used shall be High-Temperature Insulation Wool (HTIW).
- A comparable mineral wool or Rockwool can be used as substitution to lower cost.

Doors

- All exterior doors shall open outward for means of egress.
- All exterior doors shall have a mechanical locking mechanism that can be activated from the inside and outside.
- All interior doors shall have a 1/2" gap (or larger) around all sides to prevent sticking due to metal distortion & expansion during fire training.
- All door openings shall be of a standard residential door size (3'-0" width) unless otherwise noted.
- All doors shall have a 4" gap from the floor to the bottom of the door to allow for fire hose movement; this gap to be covered with a rubber and/or abrasion resistant material.
- All interior doors shall open as so depicted into designated rooms.
- All doors shall have a jamb installed to prevent hyper-extending such door.
- All doors shall have a large handle used for opening and closing such door, capable of being operated while personnel is wearing Structural Firefighting Gloves.
- All door hinges shall be of Heavy Duty design.
- All doors to be 1/4" steel plate with 2"x2"x1/4" steel tube perimeter frame, midrib and diagonals; at burn rooms install 2" fire insulation and 1/4" plate steel on both sides of door.

Windows

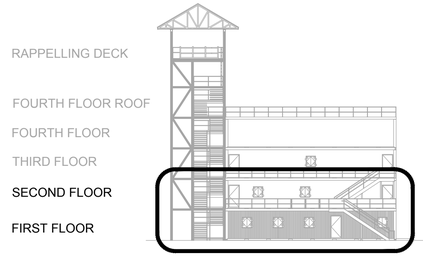
- All windows shall open outwards for means of egress.
- All window openings shall be 42" (3'-6") finished height to window sill.
- All window openings shall be 78" (6'-6") total height, finished opening.
- All window openings shall be 36" in height, finished opening.
- All window openings shall be 32" in width, unless otherwise noted.
- All window opening panels shall be in 2 pieces, unless otherwise noted.
- All window opening panels for the burn rooms shall be of a 1/2" thickness of plate steel.
- All window opening panels shall be hinged on both sides of the window, top & bottom.
- All windows shall have a locking mechanism that can be operated from the inside and/or outside, unless otherwise noted
- All window openings on the tower shall only open from the inside.
- All window hinges shall be of Heavy Duty design.
- All windows shall have a large handle used for opening and closing such windows, capable of being operated while personnel is wearing Structural Firefighting Gloves.
- All window openings shall be finished with Heavy Gauge angle iron to cover all framework and plate metal.

Floor

- All metal used on the floors in burn rooms shall be 1/4" thickness.
- All floors in burn rooms shall be insulated.
- All insulation used shall be High-Temperature Insulation Wool (HTIW).
- A comparable mineral wool or Rockwool can be used as substitution to lower cost.
- All flooring shall be securely screwed to the wood decking of the containers to prevent as much buckling as possible.
- All metal flooring shall be of a tread plate pattern to prevent slips and falls.

SUBMITTALS

- General Contractor to submit detailed shop drawings and product data on all structural steel, tube steel, walls and doors, all hinges, all doors and window shutters and locking and unlocking mechanism design.
- Provide steel trim around all window and door openings of 1/4" bent plate with 4" leg, each side of opening welded to wall.



KEY ELEVATION

SCALE: NOT TO SCALE

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

DESIGN LOADS

ROOF LIVE LOAD:	100PSF
FLOOR LIVE LOAD:	100 PSF
WIND LOAD:	LOCAL
SEISMIC DESIGN CAT.:	LOCAL
SITE CLASS:	LOCAL
DESIGN CODE:	LOCAL & NFPA 1402

WALL TYPES

1 BURN ROOM INTERIOR WALL (SEE 7/A1-6)

2 BURN ROOM EXTERIOR WALL, CEILING AND FLOOR SEE DETAIL 2/A1-8

3 NON-BURN ROOM INTERIOR WALL

4 BURN ROOM INSULATED DOOR WITH 1/4" STEEL PLATE BOTH SIDES

5 INSULATED WINDOW SHUTTERS SIMILAR TO BURN ROOM DOORS WITH LOCKING MECHANISM EXCEPT WITH 1/2" PLATE STEEL BOTH SIDES.

6 NON-INSULATED DOOR

7 NON-INSULATED WINDOW SHUTTERS

BURN ROOM: INSULATE THE FLOOR, WALLS, CEILING, DOORS & WINDOW SHUTTERS OF THIS SPACE.

REVISIONS

	DATE	DESCRIPTION
1		

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

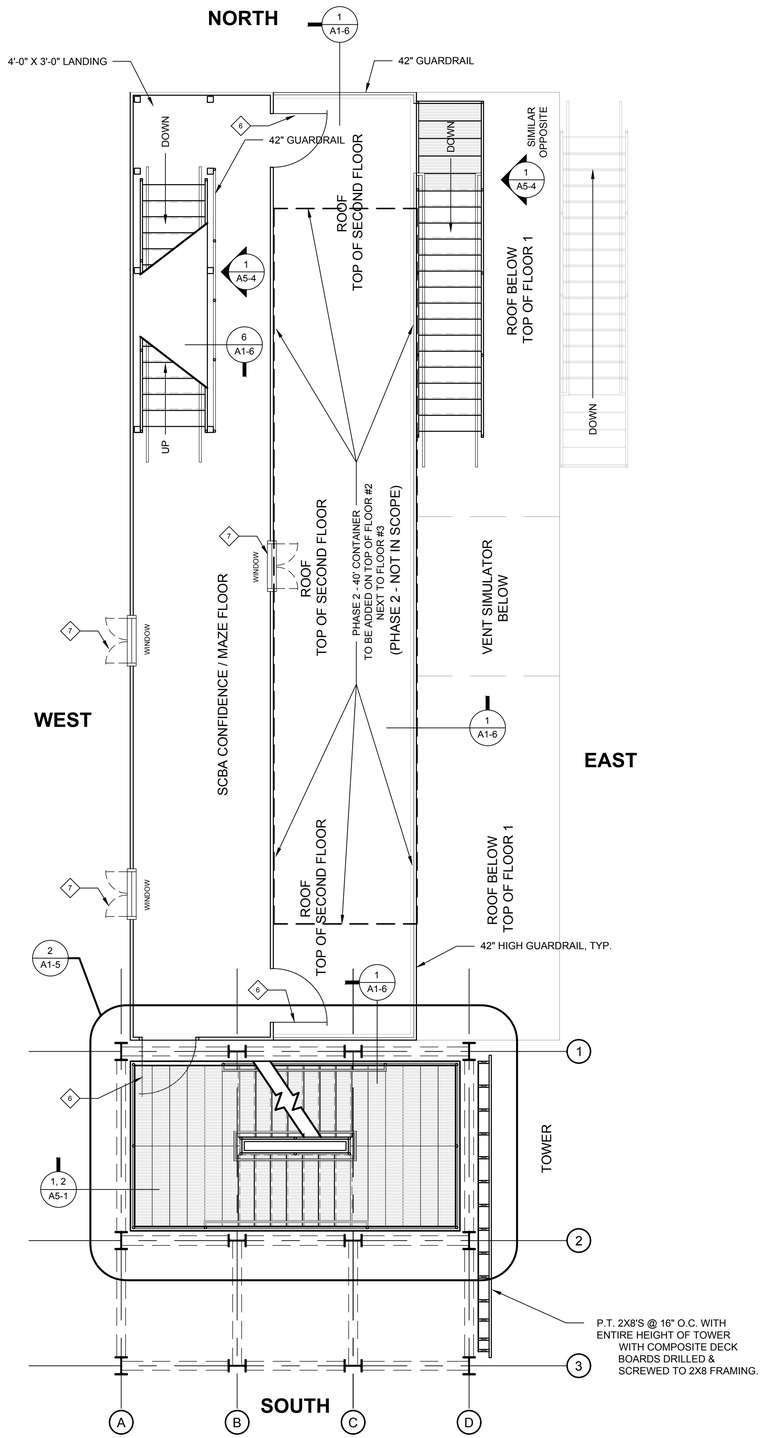
FLOOR PLANS

MODIFIED DATE:

ISSUED DATE:
FOR BIDDING
26 FEB 2018

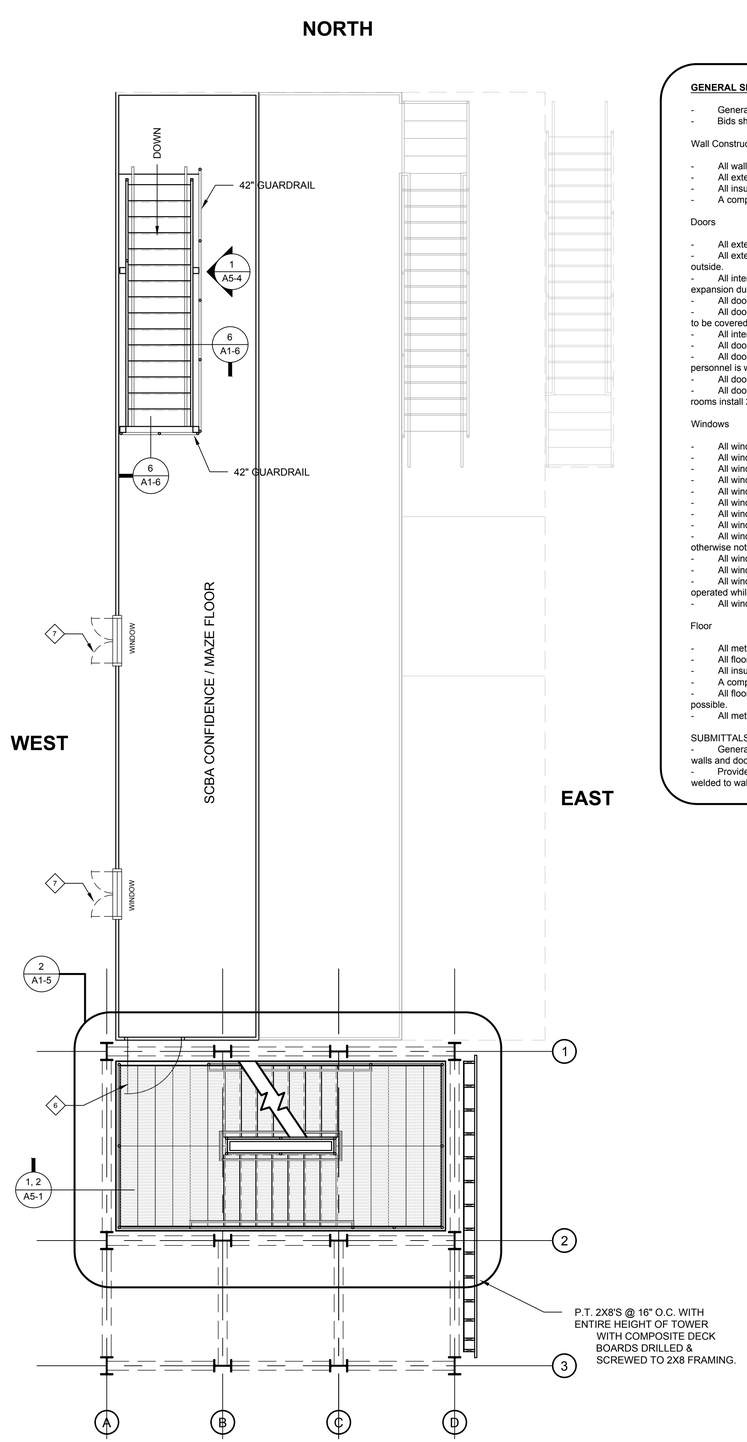
JOB NO:
1730

SHEET:
A1-1



1 A1-2 **3RD FLOOR PLAN**

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



2 A1-2 **4TH FLOOR PLAN**

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

KEYNOTES

1. INTERIOR OF ROOM IS LINED WITH FIRE AND WATER RESISTANT INSULATION AND COVERED WITH 1/4" PLATE STEEL PLATES OR STAINLESS STEEL PANELS. SEE ADDITIVE ALTERNATIVES. INSTALL ON ALL FLOORS, CEILINGS AND WALLS IN BURN ROOMS.

GENERAL SPECIFICATIONS

- General bids shall include a 5-year warranty on workmanship.
- Bids shall include a yearly inspection of such structure to repair and/or replace any defects in workmanship.

Wall Construction

- All walls shall be a minimal 2" thickness, finished size.
- All exterior walls and ceilings exposed to fire shall be insulated.
- All insulation used shall be High-Temperature Insulation Wool (HTIW).
- A comparable mineral wool or Rockwool can be used as substitution to lower cost.

Doors

- All exterior doors shall open outward for means of egress.
- All exterior doors shall have a mechanical locking mechanism that can be activated from the inside and outside.
- All interior doors shall have a 1/2" gap (or larger) around all sides to prevent sticking due to metal distortion & expansion during fire training.
- All door openings shall be of a standard residential door size (3'-0" width) unless otherwise noted.
- All doors shall have a 4" gap from the floor to the bottom of the door to allow for fire hose movement; this gap to be covered with a rubber and/or abrasion resistant material.
- All interior doors shall open as so depicted into designated rooms.
- All doors shall have a jamb installed to prevent hyper-extending such door.
- All doors shall have a large handle used for opening and closing such door, capable of being operated while personnel is wearing Structural Firefighting Gloves.
- All door hinges shall be of Heavy Duty design.
- All doors to be 1/4" steel plate with 2"x2"x1/4" steel tube perimeter frame, midrib and diagonals; at burn rooms install 2" fire insulation and 1/4" plate steel on both sides of door.

Windows

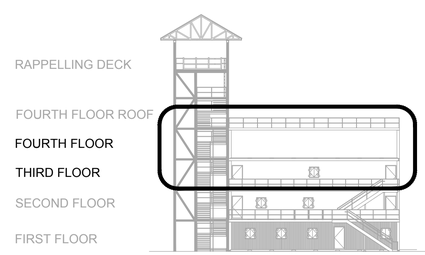
- All windows shall open outwards for means of egress.
- All window openings shall be 42" (3'-6") finished height to window sill.
- All window openings shall be 78" (6'-6") total height, finished opening.
- All window openings shall be 36" in height, finished opening.
- All window openings shall be 32" in width, unless otherwise noted.
- All window opening panels shall be in 2 pieces, unless otherwise noted.
- All window opening panels for the burn rooms shall be of a 1/2" thickness of plate steel.
- All window opening panels shall be hinged on both sides of the window, top & bottom.
- All windows shall have a locking mechanism that can be operated from the inside and/or outside, unless otherwise noted
- All window openings on the tower shall only open from the inside.
- All window hinges shall be of Heavy Duty design.
- All windows shall have a large handle used for opening and closing such windows, capable of being operated while personnel is wearing Structural Firefighting Gloves.
- All window openings shall be finished with Heavy Gauge angle iron to cover all framework and plate metal.

Floor

- All metal used on the floors in burn rooms shall be 1/4" thickness.
- All floors in burn rooms shall be insulated.
- All insulation used shall be High-Temperature Insulation Wool (HTIW).
- A comparable mineral wool or Rockwool can be used as substitution to lower cost.
- All flooring shall be securely screwed to the wood decking of the containers to prevent as much buckling as possible.
- All metal flooring shall be of a tread plate pattern to prevent slips and falls.

SUBMITTALS

- General Contractor to submit detailed shop drawings and product data on all structural steel, tube steel, walls and doors, all hinges, all doors and window shutters and locking and unlocking mechanism design.
- Provide steel trim around all window and door openings of 1/4" bent plate with 4" leg, each side of opening welded to wall.



KEY ELEVATION

SCALE: NOT TO SCALE

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH, JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

DESIGN LOADS

ROOF LIVE LOAD:	100PSF
FLOOR LIVE LOAD:	100 PSF
WIND LOAD:	LOCAL
SEISMIC DESIGN CAT:	LOCAL
SITE CLASS:	LOCAL
DESIGN CODE:	LOCAL & NFPA 1402

WALL TYPES

1. BURN ROOM INTERIOR WALL (SEE 7/A1-6)
2. BURN ROOM EXTERIOR WALL, CEILING AND FLOOR SEE DETAIL 2/A1-8
3. NON-BURN ROOM INTERIOR WALL
4. BURN ROOM INSULATED DOOR WITH 1/4" STEEL PLATE BOTH SIDES
5. INSULATED WINDOW SHUTTERS SIMILAR TO BURN ROOM DOORS WITH LOCKING MECHANISM EXCEPT WITH 1/2" PLATE STEEL BOTH SIDES.
6. NON-INSULATED DOOR
7. NON-INSULATED WINDOW SHUTTERS

BURN ROOM: INSULATE THE FLOOR, WALLS, CEILING, DOORS & WINDOW SHUTTERS OF THIS SPACE.

REVISIONS

	DATE	DESCRIPTION
1		

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

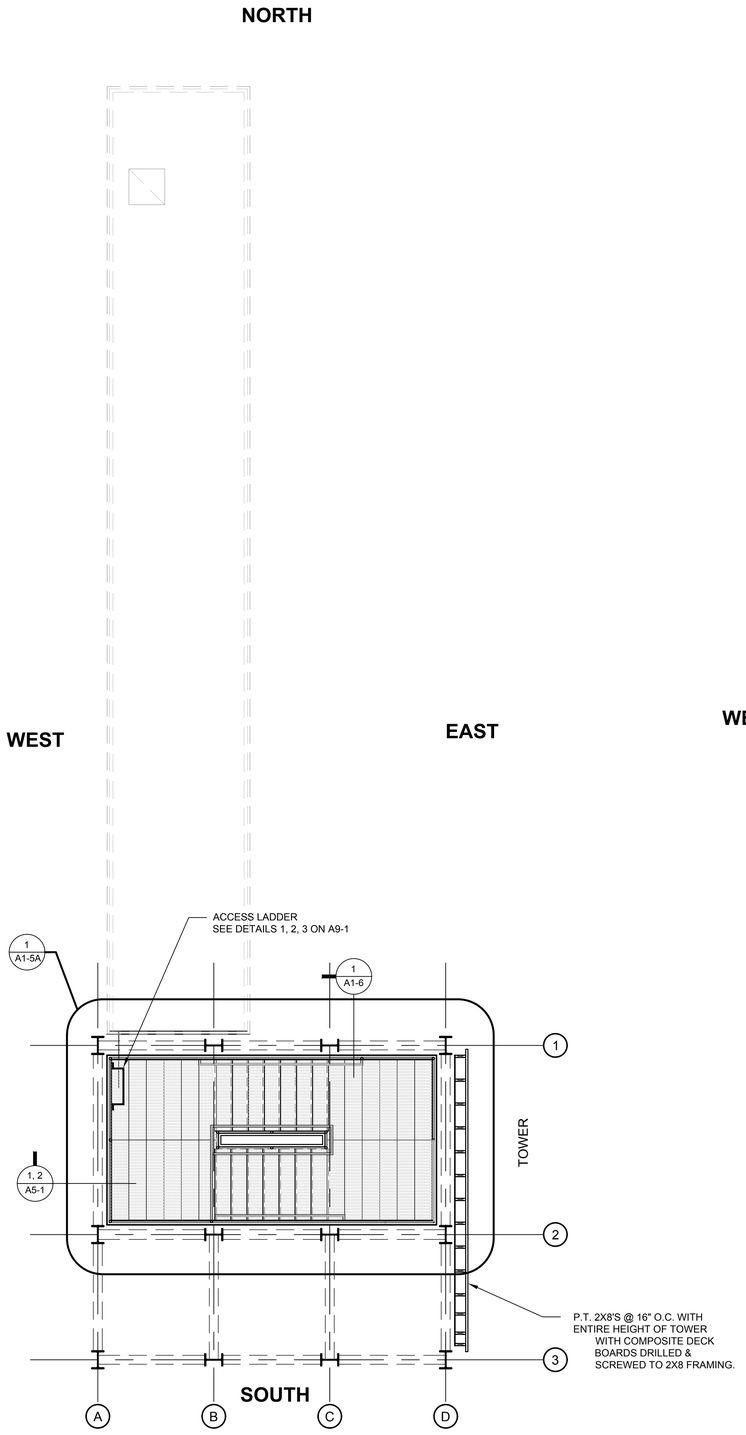
FLOOR PLANS

MODIFIED DATE:

ISSUED DATE:
FOR BIDDING
26 FEB 2018

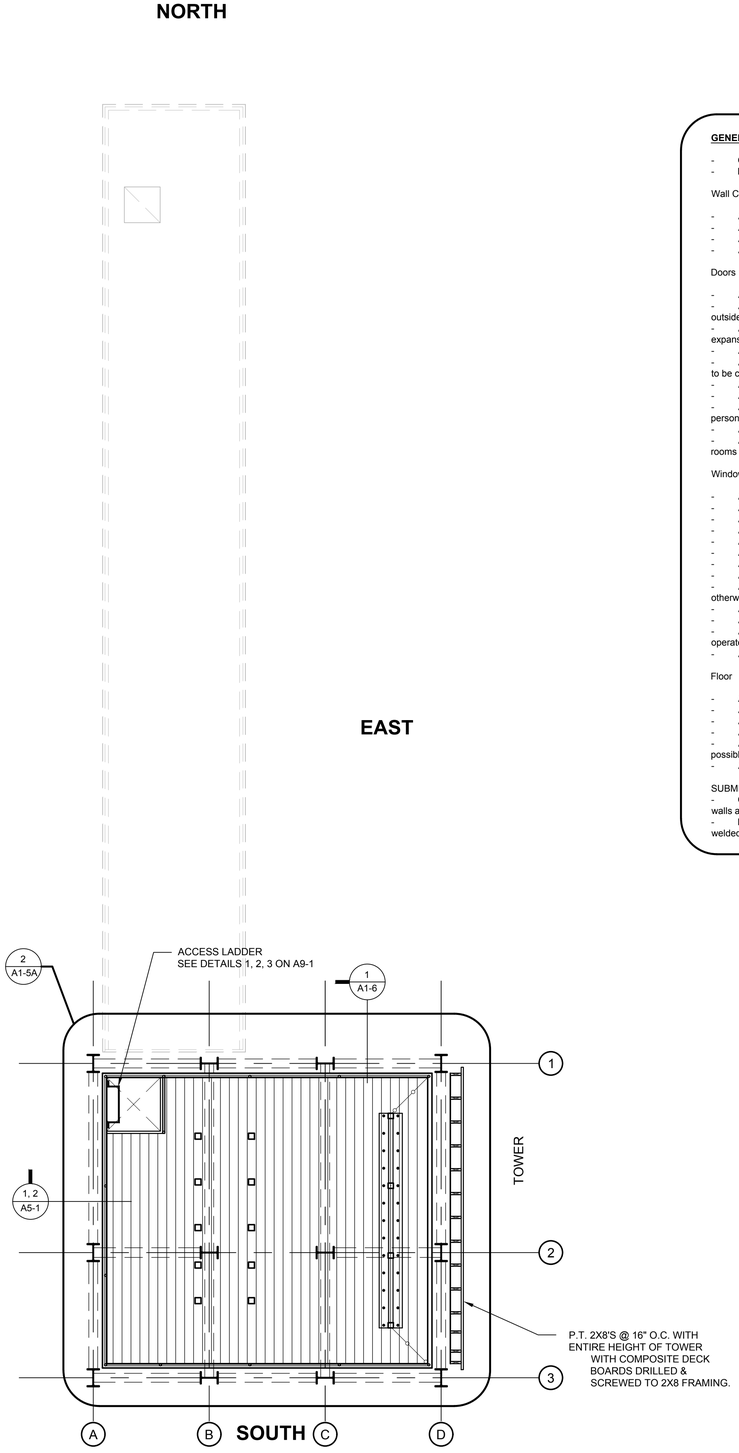
JOB NO:
1730

SHEET:
A1-2



1 A1-3 **LADDER DECK PLAN**

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



2 A1-3 **RAPPELLING DECK FLOOR PLAN**

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

KEYNOTES

1. INTERIOR OF ROOM IS LINED WITH FIRE AND WATER RESISTANT INSULATION AND COVERED WITH 1/4" PLATE STEEL PLATES OR STAINLESS STEEL PANELS. SEE ADDITIVE ALTERNATIVES. INSTALL ON ALL FLOORS, CEILINGS AND WALLS IN BURN ROOMS.

GENERAL SPECIFICATIONS

- General bids shall include a 5-year warranty on workmanship.
- Bids shall include a yearly inspection of such structure to repair and/or replace any defects in workmanship.

Wall Construction

- All walls shall be a minimal 2" thickness, finished size.
- All exterior walls and ceilings exposed to fire shall be insulated.
- All insulation used shall be High-Temperature Insulation Wool (HTIW).
- A comparable mineral wool or Rockwool can be used as substitution to lower cost.

Doors

- All exterior doors shall open outward for means of egress.
- All exterior doors shall have a mechanical locking mechanism that can be activated from the inside and outside.
- All interior doors shall have a 1/2" gap (or larger) around all sides to prevent sticking due to metal distortion & expansion during fire training.
- All door openings shall be of a standard residential door size (3'-0" width) unless otherwise noted.
- All doors shall have a 4" gap from the floor to the bottom of the door to allow for fire hose movement; this gap to be covered with a rubber and/or abrasion resistant material.
- All interior doors shall open as so depicted into designated rooms.
- All doors shall have a jamb installed to prevent hyper-extending such door.
- All doors shall have a large handle used for opening and closing such door, capable of being operated while personnel is wearing Structural Firefighting Gloves.
- All door hinges shall be of Heavy Duty design.
- All doors to be 1/4" steel plate with 2"x2"x1/4" steel tube perimeter frame, midrib and diagonals; at burn rooms install 2" fire insulation and 1/4" plate steel on both sides of door.

Windows

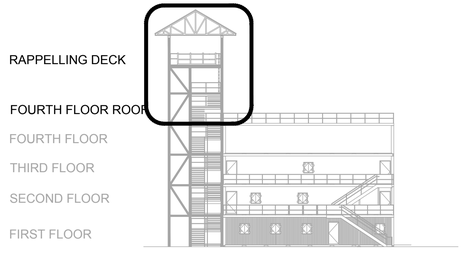
- All windows shall open outwards for means of egress.
- All window openings shall be 42" (3'-6") finished height to window sill.
- All window openings shall be 78" (6'-6") total height, finished opening.
- All window openings shall be 36" in height, finished opening.
- All window openings shall be 32" in width, unless otherwise noted.
- All window opening panels shall be in 2 pieces, unless otherwise noted.
- All window opening panels for the burn rooms shall be of a 1/2" thickness of plate steel.
- All window opening panels shall be hinged on both sides of the window, top & bottom.
- All windows shall have a locking mechanism that can be operated from the inside and/or outside, unless otherwise noted
- All window openings on the tower shall only open from the inside.
- All window hinges shall be of Heavy Duty design.
- All windows shall have a large handle used for opening and closing such windows, capable of being operated while personnel is wearing Structural Firefighting Gloves.
- All window openings shall be finished with Heavy Gauge angle iron to cover all framework and plate metal.

Floor

- All metal used on the floors in burn rooms shall be 1/4" thickness.
- All floors in burn rooms shall be insulated.
- All insulation used shall be High-Temperature Insulation Wool (HTIW).
- A comparable mineral wool or Rockwool can be used as substitution to lower cost.
- All flooring shall be securely screwed to the wood decking of the containers to prevent as much buckling as possible.
- All metal flooring shall be of a tread plate pattern to prevent slips and falls.

SUBMITTALS

- General Contractor to submit detailed shop drawings and product data on all structural steel, tube steel, walls and doors, all hinges, all doors and window shutters and locking and unlocking mechanism design.
- Provide steel trim around all window and door openings of 1/4" bent plate with 4" leg, each side of opening welded to wall.



KEY ELEVATION

SCALE: NOT TO SCALE

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

DESIGN LOADS

ROOF LIVE LOAD:	100PSF
FLOOR LIVE LOAD:	100 PSF
WIND LOAD:	LOCAL
SEISMIC DESIGN CAT:	LOCAL
SITE CLASS:	LOCAL
DESIGN CODE:	LOCAL & NFPA 1402

WALL TYPES

1. BURN ROOM INTERIOR WALL (SEE 7/A1-6)
2. BURN ROOM EXTERIOR WALL, CEILING AND FLOOR SEE DETAIL 2/A1-8
3. NON-BURN ROOM INTERIOR WALL
4. BURN ROOM INSULATED DOOR WITH 1/4" STEEL PLATE BOTH SIDES
5. INSULATED WINDOW SHUTTERS SIMILAR TO BURN ROOM DOORS WITH LOCKING MECHANISM EXCEPT WITH 1/2" PLATE STEEL BOTH SIDES.
6. NON-INSULATED DOOR
7. NON-INSULATED WINDOW SHUTTERS

BURN ROOM: INSULATE THE FLOOR, WALLS, CEILING, DOORS & WINDOW SHUTTERS OF THIS SPACE.

REVISIONS

	DATE	DESCRIPTION
1		

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

STAIR TOWER PLAN

MODIFIED DATE:

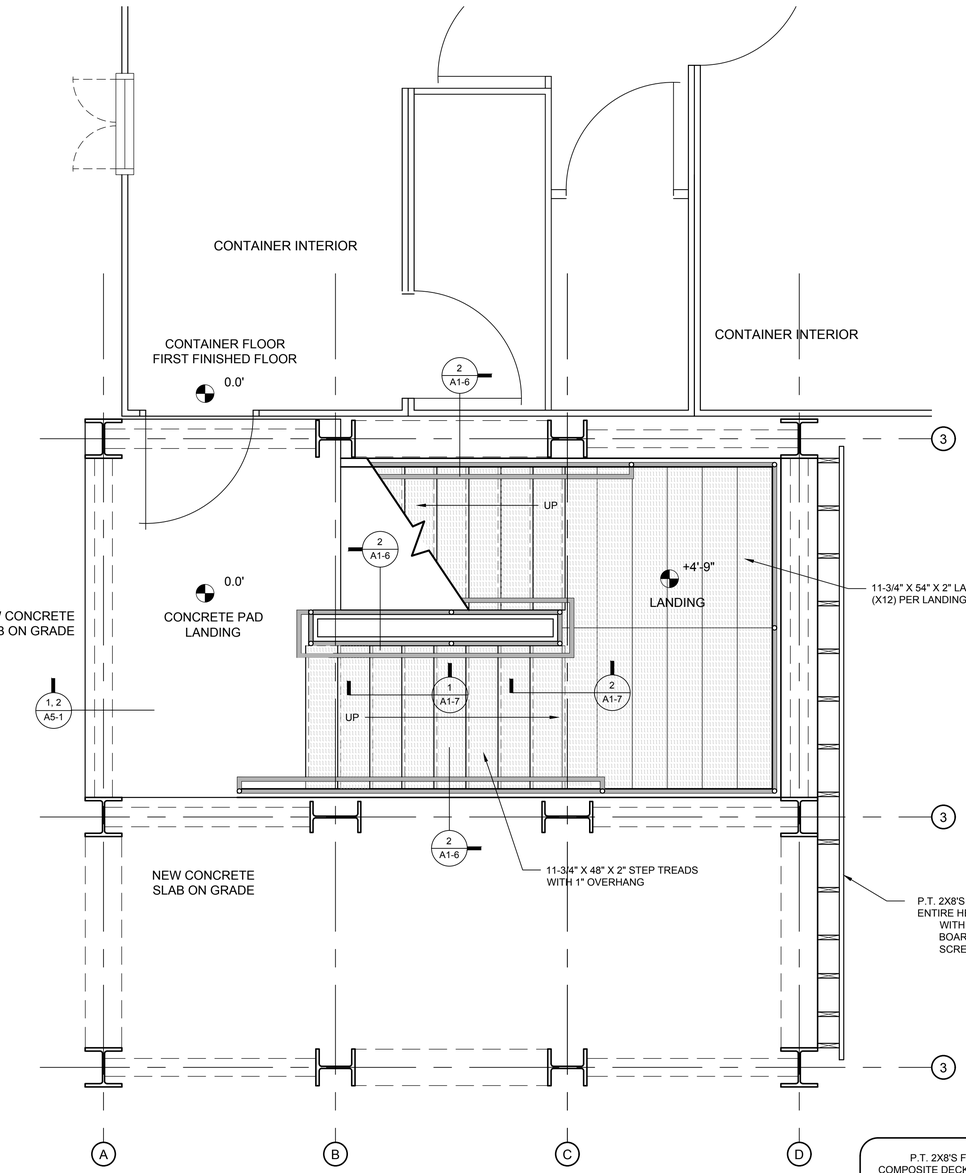
ISSUED DATE:
FOR BIDDING
26 FEB 2018

JOB NO:
1730

SHEET:
A1-3

KEYNOTES

1 KEYNOTES. KEYNOTES. KEYNOTES



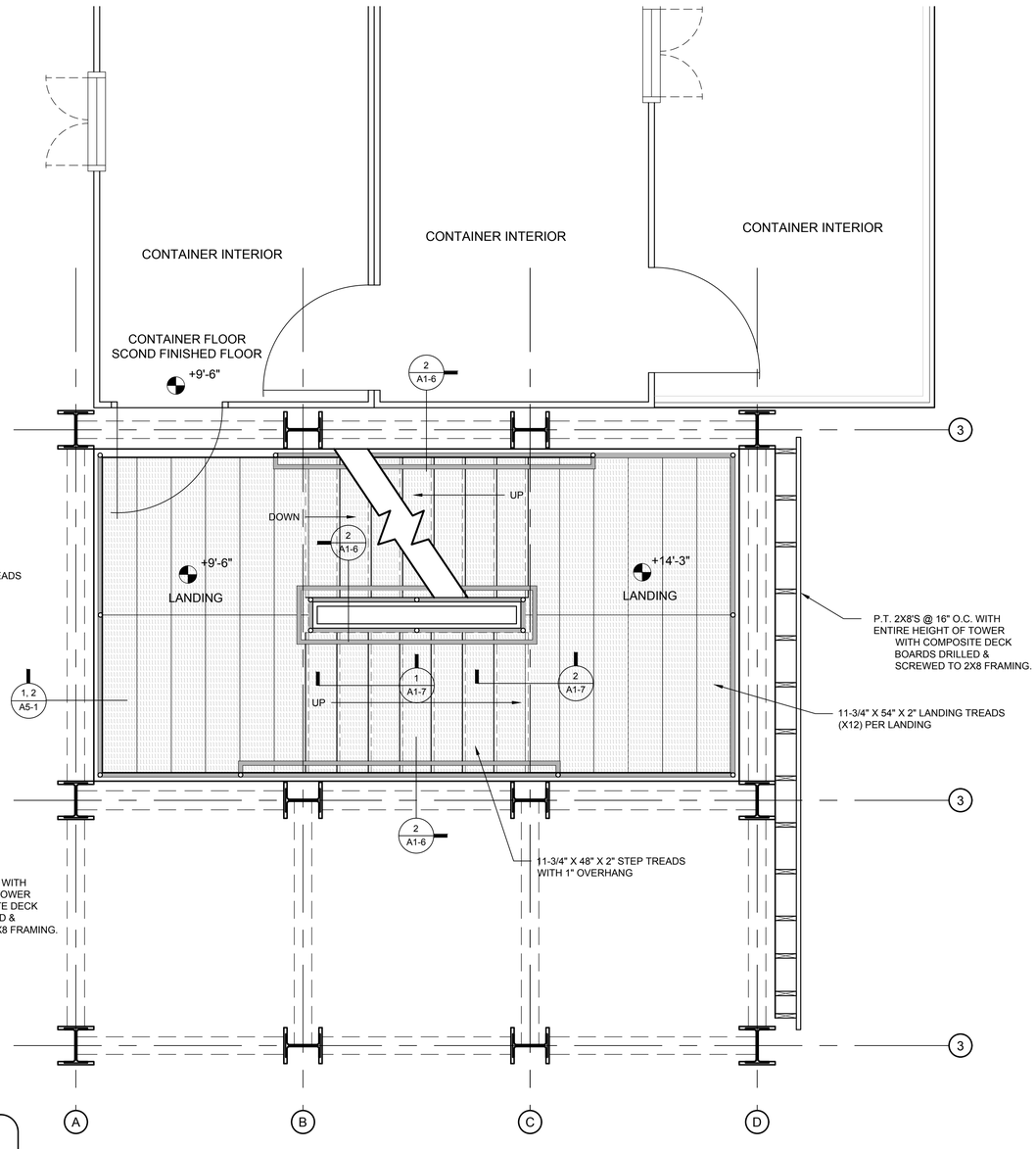
1 A1-4 **STAIR TOWER PLAN - 1ST FLOOR (F.F. 0'-0")**

SCALE: 1/2" = 1'-0"

P.T. 2X8'S FRAMING &
COMPOSITE DECK BOARDS
PURCHASE & INSTALLTION
PART OF ADD. ALT. NO. 4

STEPS AND LANDING TREADS
48" WIDTHS AND 54" WIDTHS - SPECIFICATIONS

DESIGN BASED ON DIAMOND GRIP, 14 GAUGE STEEL, GALVANIZED 11-3/4" CHANNEL WIDTH, CHANNEL HEIGHT 2", RETURN FLANGE 1". 5 DIAMOND, CATALOGUE # D5204 AS MANUFACTURED BY METAL MART, INC.



2 A1-4 **STAIR TOWER PLAN - 2ND FLOOR (F.F. 9'-6")**

SCALE: 1/2" = 1'-0"

SET NO:

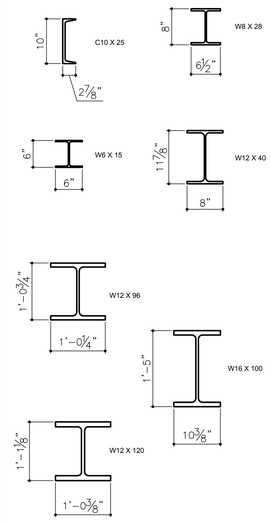
ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH, JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

LEGEND OF STRUCTURAL MEMBERS

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



REVISIONS

1	DATE	DESCRIPTION

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

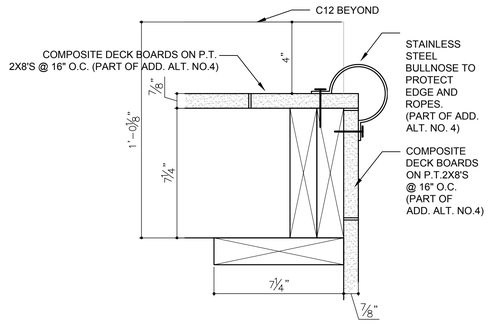
STAIR TOWER PLAN
FIRST / GROUND FLOOR

MODIFIED DATE:

ISSUED DATE:
FOR BIDDING
26 FEB 2018

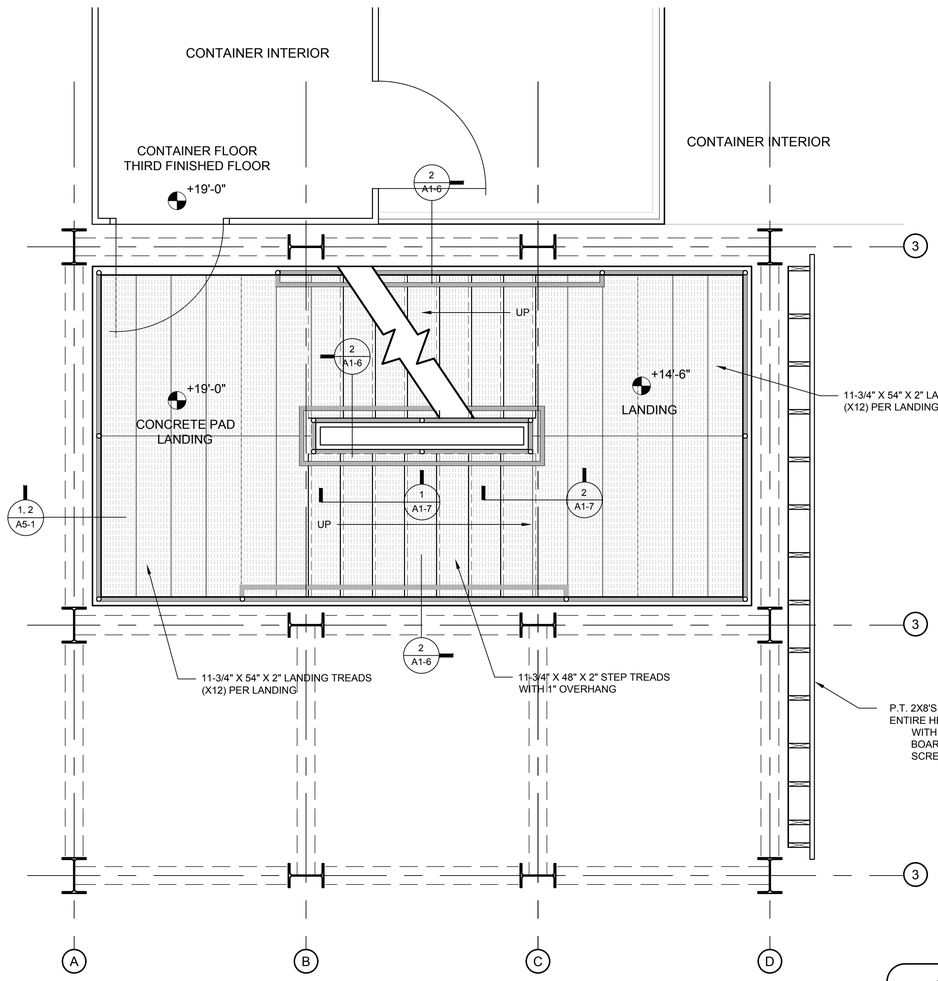
JOB NO:
1730

SHEET:
A1-4



3 / A1-5 **RAPPELLING DECK EDGE**

SCALE: 3" = 1'-0" (PART OF ADD. ALT. NO.4)



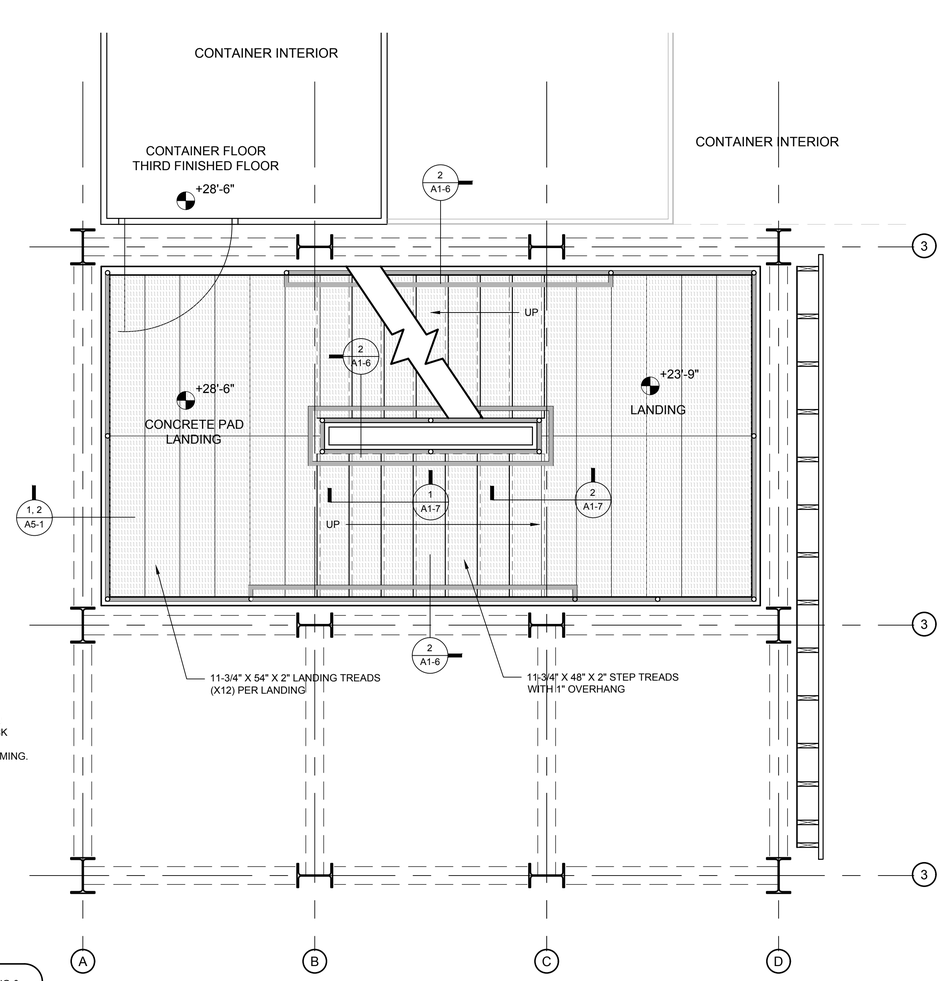
1 / A1-5 **STAIR TOWER PLAN - 3RD FLOOR**

SCALE: 1/2" = 1'-0"

P.T. 2X8'S FRAMING & COMPOSITE DECK BOARDS PURCHASE & INSTALLTION PART OF ADD. ALT. NO. 4

STEPS AND LANDING TREADS
48" WIDTHS AND 54" WIDTHS - SPECIFICATIONS

DESIGN BASED ON DIAMOND GRIP, 14 GAUGE STEEL, GALVANIZED 11-3/4" CHANNEL WIDTH, CHANNEL HEIGHT 2", RETURN FLANGE 1". 5 DIAMOND, CATALOGUE # D5204 AS MANUFACTURED BY METAL MART, INC.



1 / A1-5 **STAIR TOWER PLAN - 4TH FLOOR**

SCALE: 1/2" = 1'-0"

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH, JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

REVISIONS

	DATE	DESCRIPTION
1		

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

STAIR TOWER PLAN

MODIFIED DATE:

ISSUED DATE:
FOR BIDDING
26 FEB 2018

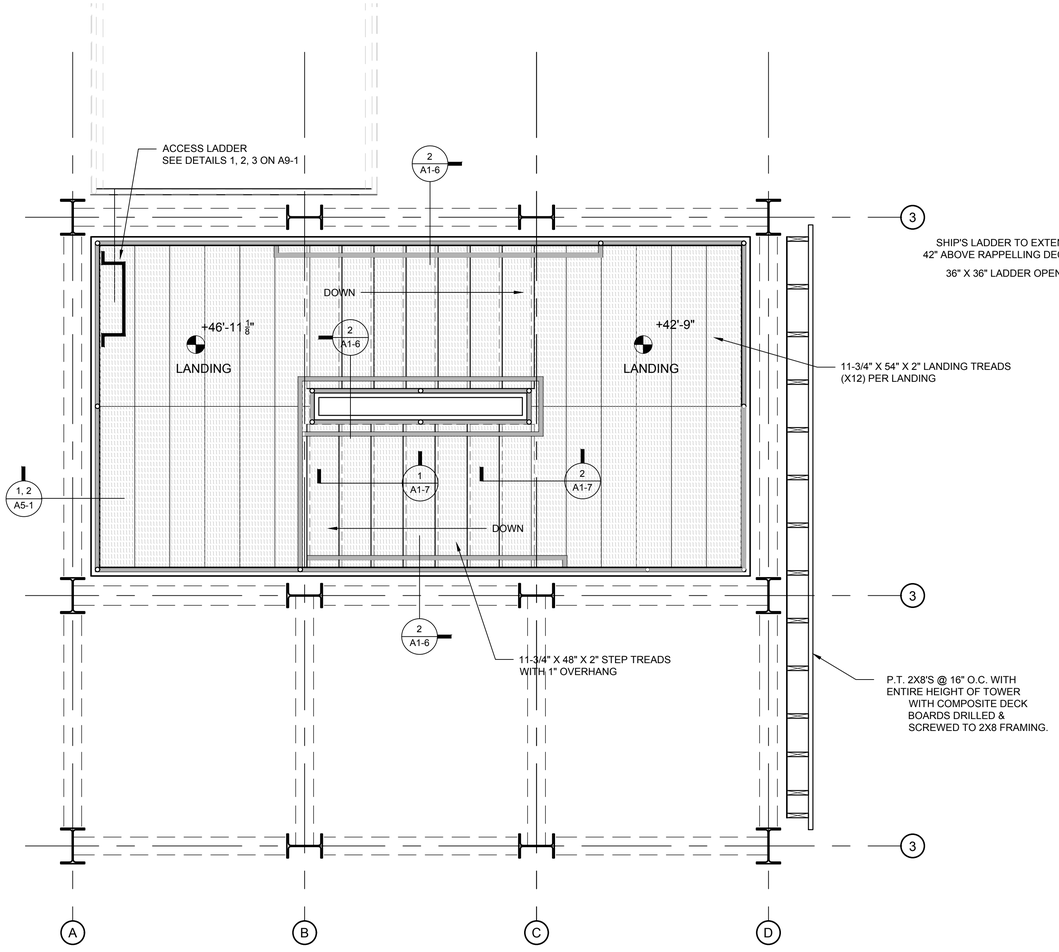
JOB NO:
1730

SHEET:
A1-5

P.T. 2X8'S FRAMING &
COMPOSITE DECK BOARDS
PURCHASE & INSTALLTION
PART OF ADD. ALT. NO. 4

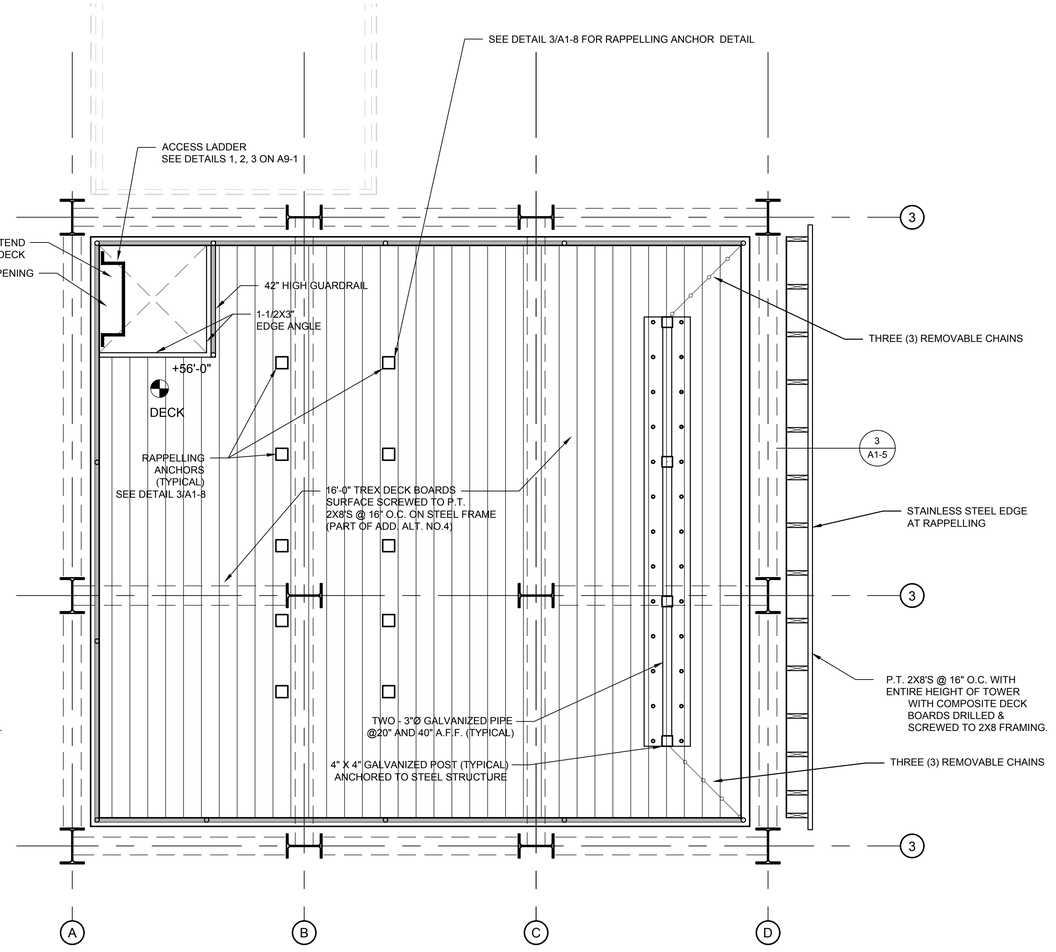
STEPS AND LANDING TREADS
48" WIDTHS AND 54" WIDTHS - SPECIFICATIONS

DESIGN BASED ON DIAMOND GRIP, 14 GAUGE STEEL, GALVANIZED 11-3/4" CHANNEL WIDTH, CHANNEL HEIGHT 2", RETURN FLANGE 1". 5 DIAMOND, CATALOGUE # D5204 AS MANUFACTURED BY METAL MART, INC.



1 A1-5A LADDER LANDING - FLOOR PLAN

SCALE: 1/2" = 1'-0"



2 A1-5A RAPPELLING DECK - FLOOR PLAN

SCALE: 1/2" = 1'-0"

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

REVISIONS

	DATE	DESCRIPTION
1		

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

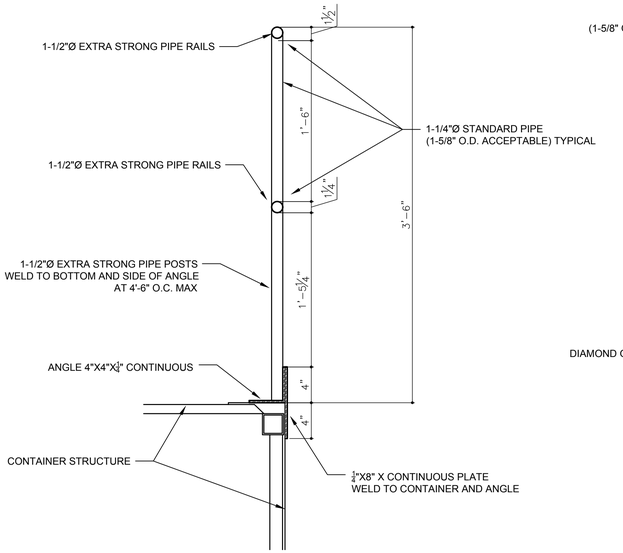
STAIR TOWER PLAN
RAPPELLING DECK

MODIFIED DATE:

ISSUED DATE:
FOR BIDDING
26 FEB 2018

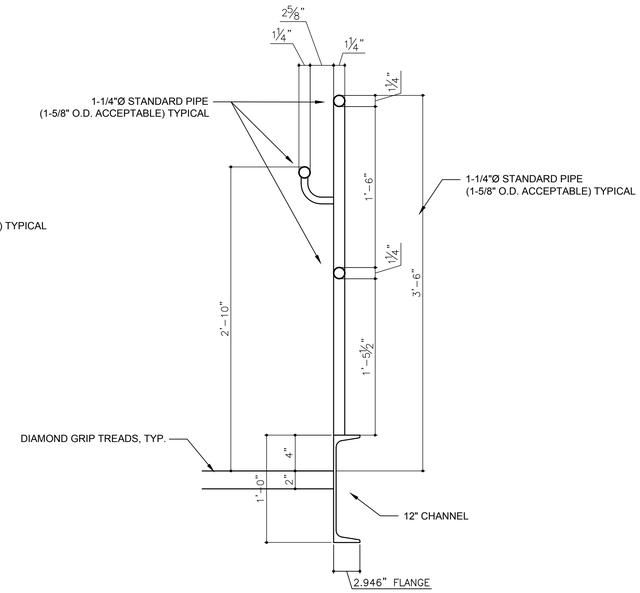
JOB NO:
1730

SHEET:
A1-5A



1 A1-6 ROOF GUARDRAIL - ATOP CONTAINERS

SCALE: 1-1/2" = 1'-0"



2 A1-6 STAIR TOWER HANDRAILS

SCALE: 1-1/2" = 1'-0"

GENERAL SPECIFICATIONS

- General bids shall include a 5-year warranty on workmanship.
- Bids shall include a yearly inspection of such structure to repair and/or replace any defects in workmanship.

Wall Construction

- All walls shall be a minimal 2" thickness, finished size.
- All exterior walls and ceilings exposed to fire shall be insulated.
- All insulation used shall be High-Temperature Insulation Wool (HTIW).
- A comparable mineral wool or Rockwool can be used as substitution to lower cost.

Doors

- All exterior doors shall open outward for means of egress.
- All exterior doors shall have a mechanical locking mechanism that can be activated from the inside and outside.
- All interior doors shall have a 1/2" gap (or larger) around all sides to prevent sticking due to metal distortion & expansion during fire training.
- All door openings shall be of a standard residential door size (3'-0" width) unless otherwise noted.
- All doors shall have a 4" gap from the floor to the bottom of the door to allow for fire hose movement; this gap to be covered with a rubber and/or abrasion resistant material.
- All interior doors shall open as so depicted into designated rooms.
- All doors shall have a jamb installed to prevent hyper-extending such door.
- All doors shall have a large handle used for opening and closing such door, capable of being operated while personnel is wearing Structural Firefighting Gloves.
- All door hinges shall be of Heavy Duty design.
- All doors to be 1/4" steel plate with 2"x2"x1/4" steel tube perimeter frame, midrib and diagonals; at burn rooms install 2" fire insulation and 1/4" plate steel on both sides of door.

Windows

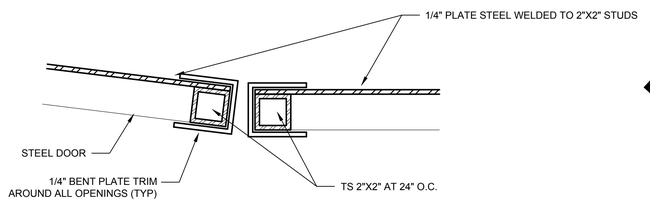
- All windows shall open outwards for means of egress.
- All window openings shall be 42" (3'-6") finished height to window sill.
- All window openings shall be 78" (6'-6") total height, finished opening.
- All window openings shall be 36" in height, finished opening.
- All window openings shall be 32" in width, unless otherwise noted.
- All window opening panels shall be in 2 pieces, unless otherwise noted.
- All window opening panels for the burn rooms shall be of a 1/2" thickness of plate steel.
- All window opening panels shall be hinged on both sides of the window, top & bottom.
- All windows shall have a locking mechanism that can be operated from the inside and/or outside, unless otherwise noted
- All window openings on the tower shall only open from the inside.
- All window hinges shall be of Heavy Duty design.
- All windows shall have a large handle used for opening and closing such windows, capable of being operated while personnel is wearing Structural Firefighting Gloves.
- All window openings shall be finished with Heavy Gauge angle iron to cover all framework and plate metal.

Floor

- All metal used on the floors in burn rooms shall be 1/4" thickness.
- All floors in burn rooms shall be insulated.
- All insulation used shall be High-Temperature Insulation Wool (HTIW).
- A comparable mineral wool or Rockwool can be used as substitution to lower cost.
- All flooring shall be securely screwed to the wood decking of the containers to prevent as much buckling as possible.
- All metal flooring shall be of a tread plate pattern to prevent slips and falls.

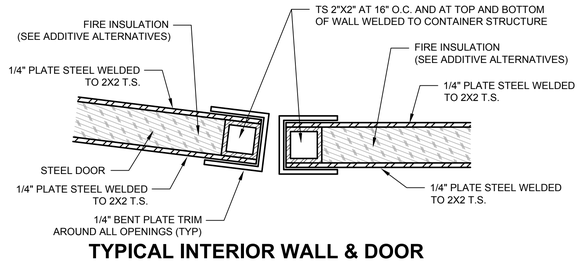
SUBMITTALS

- General Contractor to submit detailed shop drawings and product data on all structural steel, tube steel, walls and doors, all hinges, all doors and window shutters and locking and unlocking mechanism design.
- Provide steel trim around all window and door openings of 1/4" bent plate with 4" leg, each side of opening welded to wall.



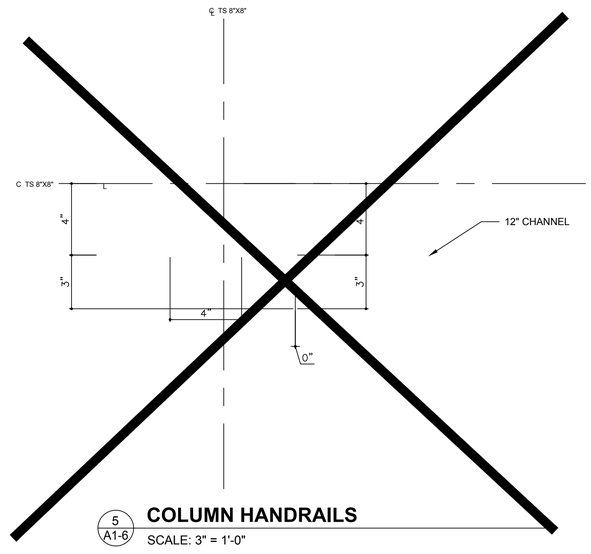
4 A1-6 TYPICAL INTERIOR WALL & DOOR NON-BURN ROOM LOCATIONS

SCALE: 3" = 1'-0"



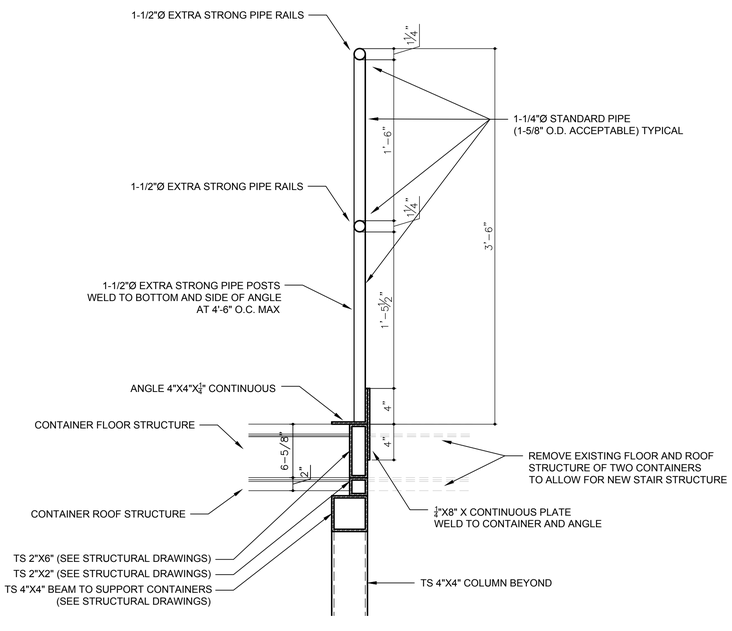
7 A1-6 TYPICAL INTERIOR WALL & DOOR IN BURN ROOMS

SCALE: 3" = 1'-0"



5 A1-6 COLUMN HANDRAILS

SCALE: 3" = 1'-0"



6 A1-6 INTERIOR STAIR GUARDRAIL INSIDE CONTAINERS

SCALE: 1-1/2" = 1'-0"

SET NO:

ARCHITECT'S STAMP

STATE OF GEORGIA
GORDON M. SMITH JR.
7575
LaGrange, Georgia
REGISTERED ARCHITECT

SIGNATURE REQUIRED

REVISIONS

⚠	DATE	DESCRIPTION

SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

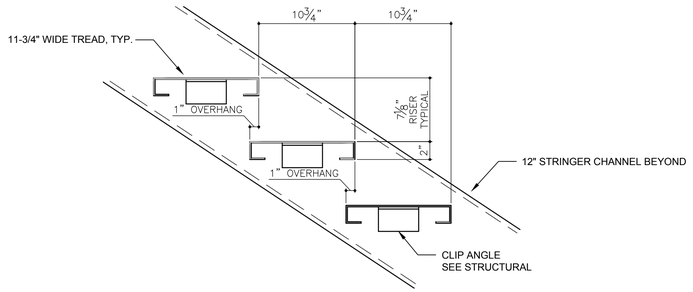
STAIR / RAILINGS DETAILS

MODIFIED DATE:

ISSUED DATE:
FOR BIDDING
26 FEB 2018

JOB NO:
1730

SHEET:
A1-6

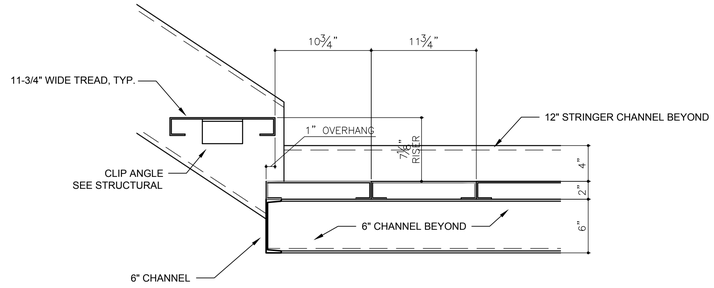


1 A1-7 STAIR TREAD DETAIL

SCALE: 1-1/2" = 1'-0"

STEPS AND LANDING TREADS
48" WIDTHS AND 54" WIDTHS - SPECIFICATIONS

DESIGN BASED ON DIAMOND GRIP, 14 GAUGE STEEL, GALVANIZED 11-3/4" CHANNEL WIDTH, CHANNEL HEIGHT 2", RETURN FLANGE 1". 5 DIAMOND, CATALOGUE # D5204 AS MANUFACTURED BY METAL MART, INC.

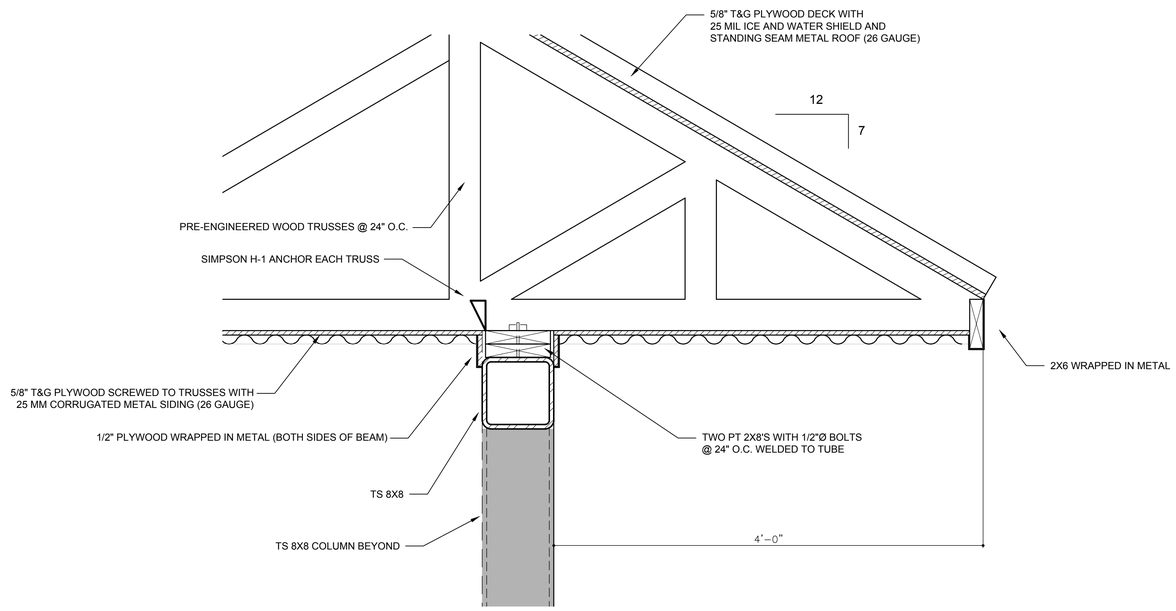


2 A1-7 LANDING STAIR TREAD DETAIL

SCALE: 1-1/2" = 1'-0"

STEPS AND LANDING TREADS
48" WIDTHS AND 54" WIDTHS - SPECIFICATIONS

DESIGN BASED ON DIAMOND GRIP, 14 GAUGE STEEL, GALVANIZED 11-3/4" CHANNEL WIDTH, CHANNEL HEIGHT 2", RETURN FLANGE 1". 5 DIAMOND, CATALOGUE # D5204 AS MANUFACTURED BY METAL MART, INC.



3 A1-7 TOWER ROOF EAVE DETAIL

SCALE: 1-1/2" = 1'-0"

GENERAL SPECIFICATIONS

- General bids shall include a 5-year warranty on workmanship.
- Bids shall include a yearly inspection of such structure to repair and/or replace any defects in workmanship.

Wall Construction

- All walls shall be a minimal 2" thickness, finished size.
- All exterior walls and ceilings exposed to fire shall be insulated.
- All insulation used shall be High-Temperature Insulation Wool (HTIW).
- A comparable mineral wool or Rockwool can be used as substitution to lower cost.

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- All exterior doors shall open outward for means of egress.
- All exterior doors shall have a mechanical locking mechanism that can be activated from the inside and outside.
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- All interior doors shall open as so depicted into designated rooms.
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- All doors shall have a large handle used for opening and closing such door, capable of being operated while personnel is wearing Structural Firefighting Gloves.
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- All doors to be 1/4" steel plate with 2"x2"x1/4" steel tube perimeter frame, midrib and diagonals; at burn rooms install 2" fire insulation and 1/4" plate steel on both sides of door.

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- All windows shall open outwards for means of egress.
- All window openings shall be 42" (3'-6") finished height to window sill.
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- All window openings shall be 36" in height, finished opening.
- All window openings shall be 32" in width, unless otherwise noted.
- All window opening panels shall be in 2 pieces, unless otherwise noted.
- All window opening panels for the burn rooms shall be of a 1/2" thickness of plate steel.
- All window opening panels shall be hinged on both sides of the window, top & bottom.
- All windows shall have a locking mechanism that can be operated from the inside and/or outside, unless otherwise noted
- All window openings on the tower shall only open from the inside.
- All window hinges shall be of Heavy Duty design.
- All windows shall have a large handle used for opening and closing such windows, capable of being operated while personnel is wearing Structural Firefighting Gloves.
- All window openings shall be finished with Heavy Gauge angle iron to cover all framework and plate metal.

Floor

- All metal used on the floors in burn rooms shall be 1/4" thickness.
- All floors in burn rooms shall be insulated.
- All insulation used shall be High-Temperature Insulation Wool (HTIW).
- A comparable mineral wool or Rockwool can be used as substitution to lower cost.
- All flooring shall be securely screwed to the wood decking of the containers to prevent as much buckling as possible.
- All metal flooring shall be of a tread plate pattern to prevent slips and falls.

SUBMITTALS

- General Contractor to submit detailed shop drawings and product data on all structural steel, tube steel, walls and doors, all hinges, all doors and window shutters and locking and unlocking mechanism design.
- Provide steel trim around all window and door openings of 1/4" bent plate with 4" leg, each side of opening welded to wall.

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7575
LaGrange, Georgia
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SMITH DESIGN GROUP, INC.
206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
PH: 706-882-5511
www. smithdesigngroup.net

PROJECT:

BURN BUILDING
FOR
CITY OF LAGRANGE FIRE DEPARTMENT
LAGRANGE, GEORGIA

TITLE:

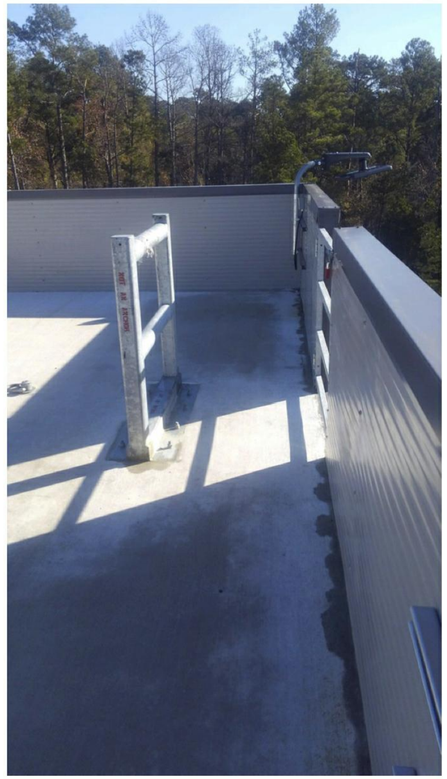
STAIR / RAILINGS DETAILS

MODIFIED DATE:

ISSUED DATE:
FOR BIDDING
26 FEB 2018

JOB NO:
1730

SHEET:
A1-7



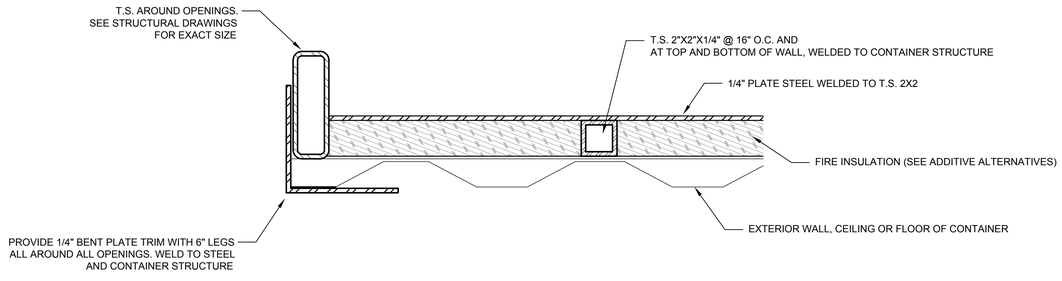
RAPPELLING ROPE SUPPORT
WITH 3"Ø GALVANIZED PIPE
AT 20" AND 40" A.F.F. (TYPICAL)
SEE DETAIL 3/A3-1

RAPPELLING ANCHORS
TO BE PROVIDED
AND INSTALLED
(TYPICAL)

SUPPORT OF
RAPPELLING ANCHORS
UNDER DECK
(FOR REFERENCE)

1 A1-8 **RAPPELLING TOWER REFERENCE PHOTOS**

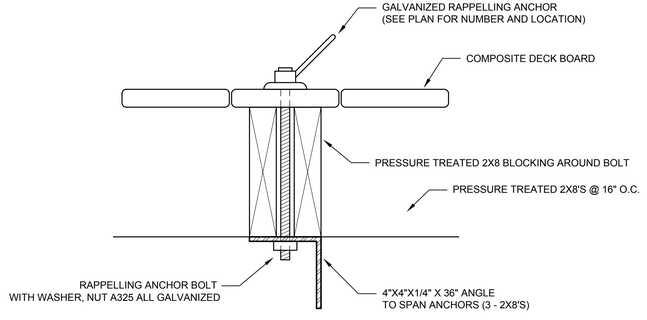
SCALE: NONE



2 A1-8 **FIRE FURR WALL IN BURN ROOMS AT EXTERIOR WALL, CEILING OR FLOOR OF CONTAINER**

SCALE: 3" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION



3 A1-8 **RAPPELLING ANCHOR BOLT**

SCALE: 3" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

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TITLE:

RAPPELLING TOWER
REFERENCE PHOTOS

MODIFIED DATE:

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JOB NO:
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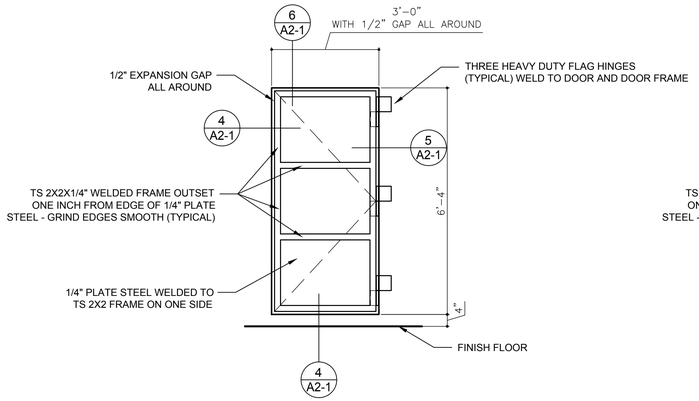
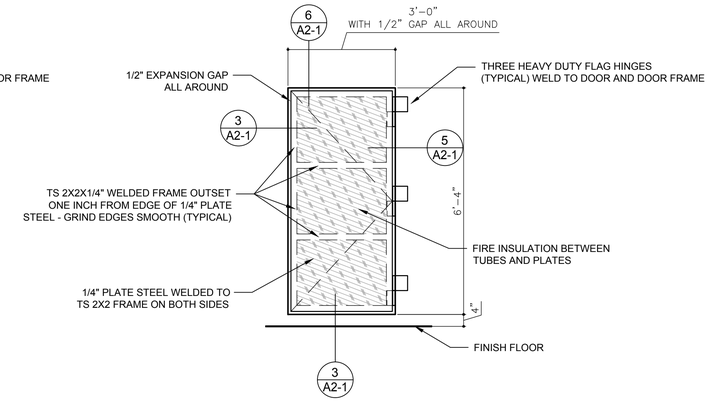
A1-8



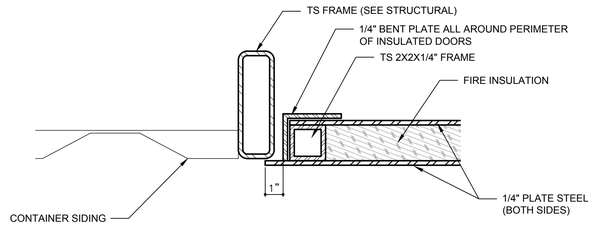
1 A2-1 TYPICAL NON-FIRE INSULATED DOOR

SCALE: 1/2" = 1'-0"



2 A2-1 TYPICAL FIRE INSULATED DOOR

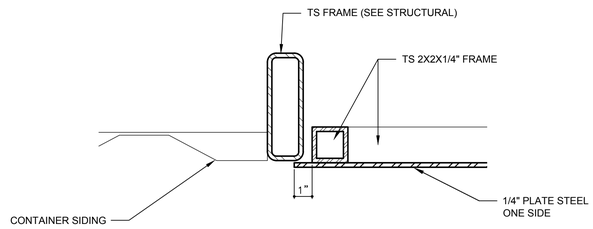
SCALE: 1/2" = 1'-0"



3 A2-1 DOOR DETAIL (FOR INSULATED DOOR)

SCALE: 3" = 1'-0"

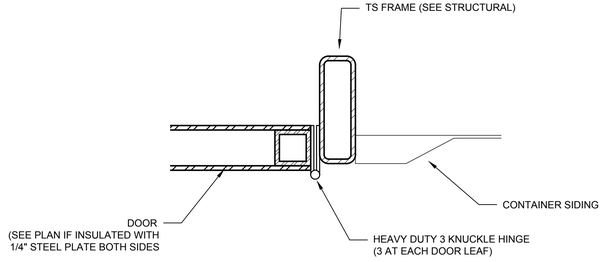
SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION



4 A2-1 DOOR DETAIL (FOR NON-FIRE INSULATED DOOR)

SCALE: 3" = 1'-0"

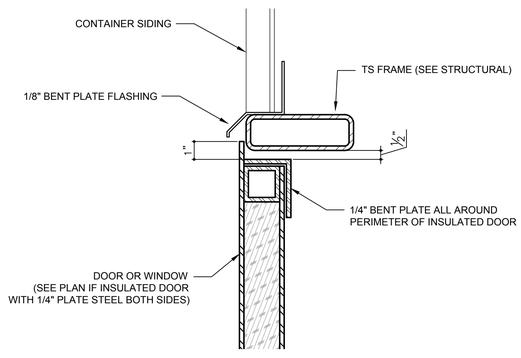
SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION



5 A2-1 DOOR DETAIL / HINGE JAMB

SCALE: 3" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION



6 A2-1 HEAD AT DOOR

SCALE: 3" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

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DOOR / WINDOW
FRAME DETAILS

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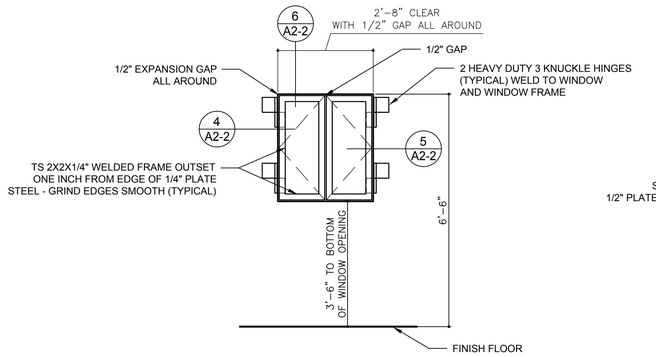
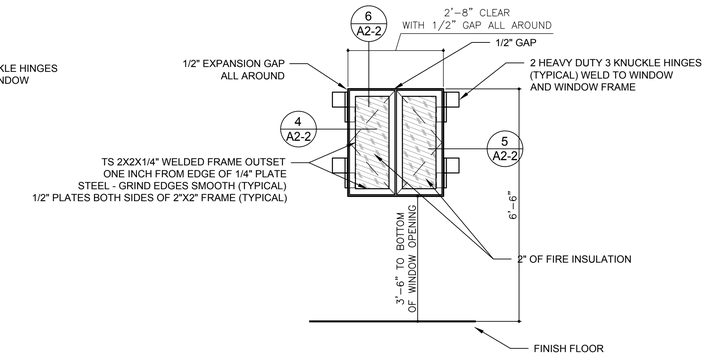
SHEET:
A2-1



1 A2-2 TYPICAL NON-FIRE INSULATED WINDOW

SCALE: 1/2" = 1'-0"

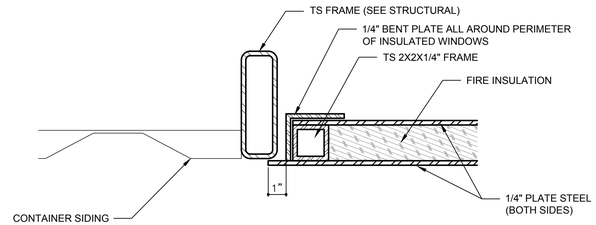
SEE SHEET A9-2 FOR WINDOW LATCH DETAILS



2 A2-2 TYPICAL FIRE INSULATED WINDOW

SCALE: 1/2" = 1'-0"

SEE SHEET A9-2 FOR WINDOW LATCH DETAILS

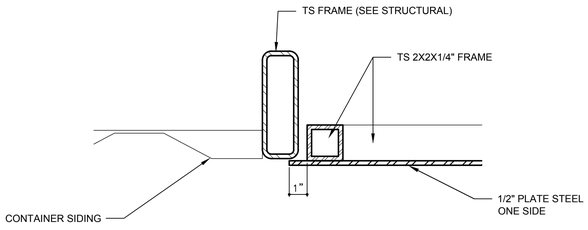


3 A2-2 WINDOW DETAIL (FOR INSULATED WINDOW)

SCALE: 3" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

SEE SHEET A9-2 FOR WINDOW LATCH DETAILS

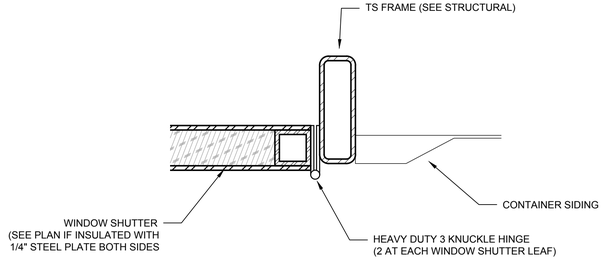


4 A2-2 WINDOW DETAIL (FOR NON-FIRE INSULATED WINDOW)

SCALE: 3" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

SEE SHEET A9-2 FOR WINDOW LATCH DETAILS

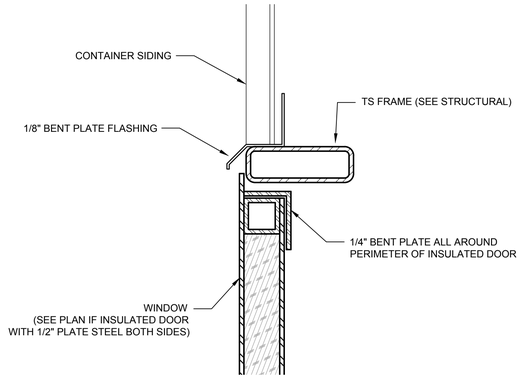


5 A2-2 INSULATED WINDOW DETAIL / HINGE JAMB

SCALE: 3" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

SEE SHEET A9-2 FOR WINDOW LATCH DETAILS



6 A2-2 HEAD AT WINDOW

SCALE: 3" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

SEE SHEET A9-2 FOR WINDOW LATCH DETAILS

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FOR
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LAGRANGE, GEORGIA

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DOOR / WINDOW
FRAME DETAILS

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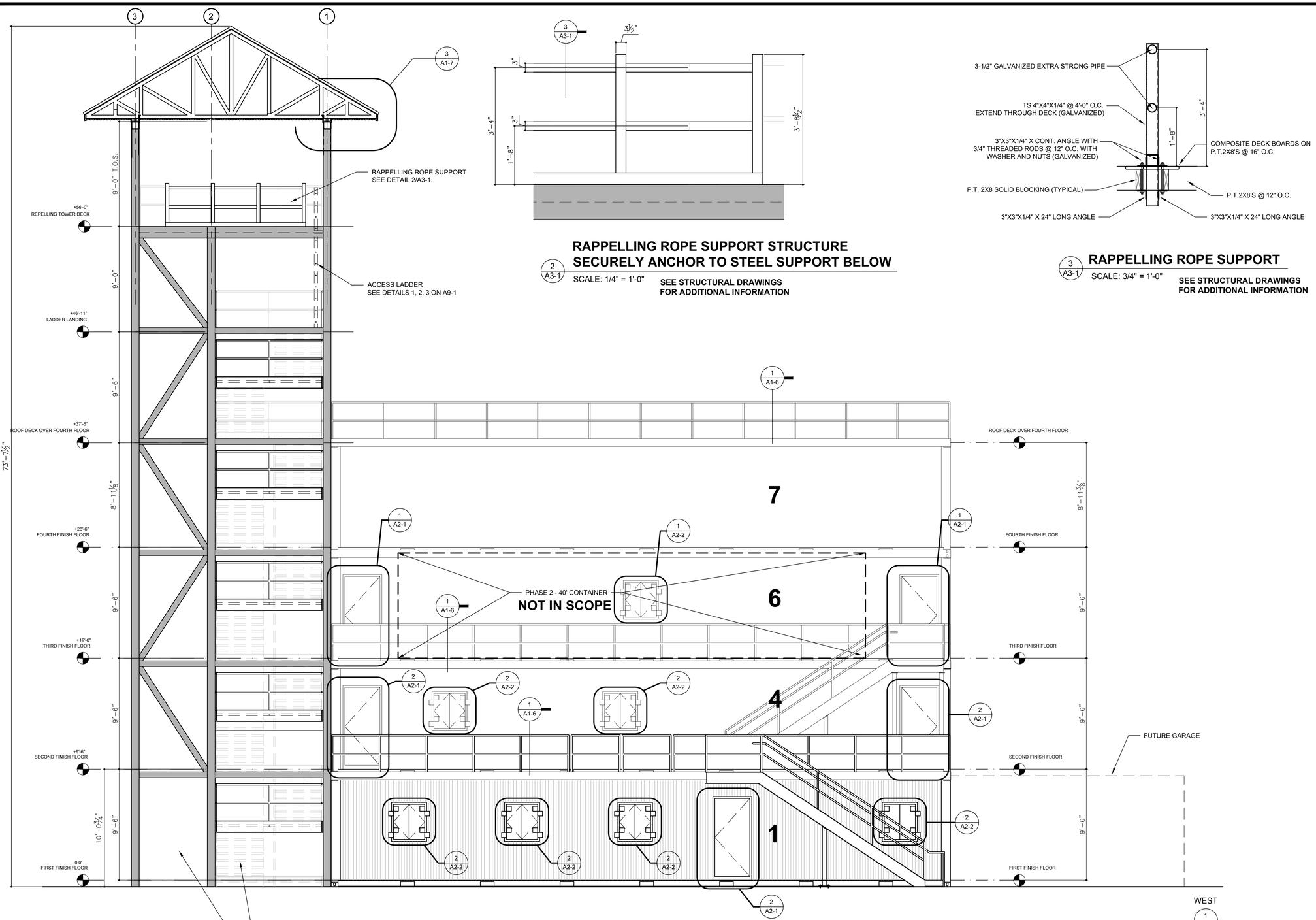
SHEET:
A2-2



RAPPELLING ROPE SUPPORT STRUCTURE SECURELY ANCHOR TO STEEL SUPPORT BELOW

2 / A3-1 SCALE: 1/4" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

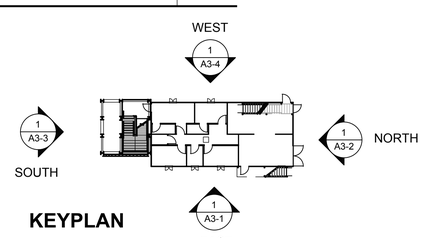
RAPPELLING ROPE SUPPORT

3 / A3-1 SCALE: 3/4" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

EXTERIOR ELEVATION - EAST

1 / A3-1 SCALE: 1/4" = 1'-0"



KEYPLAN
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LAGRANGE, GEORGIA

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EXTERIOR ELEVATIONS

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JOB NO:
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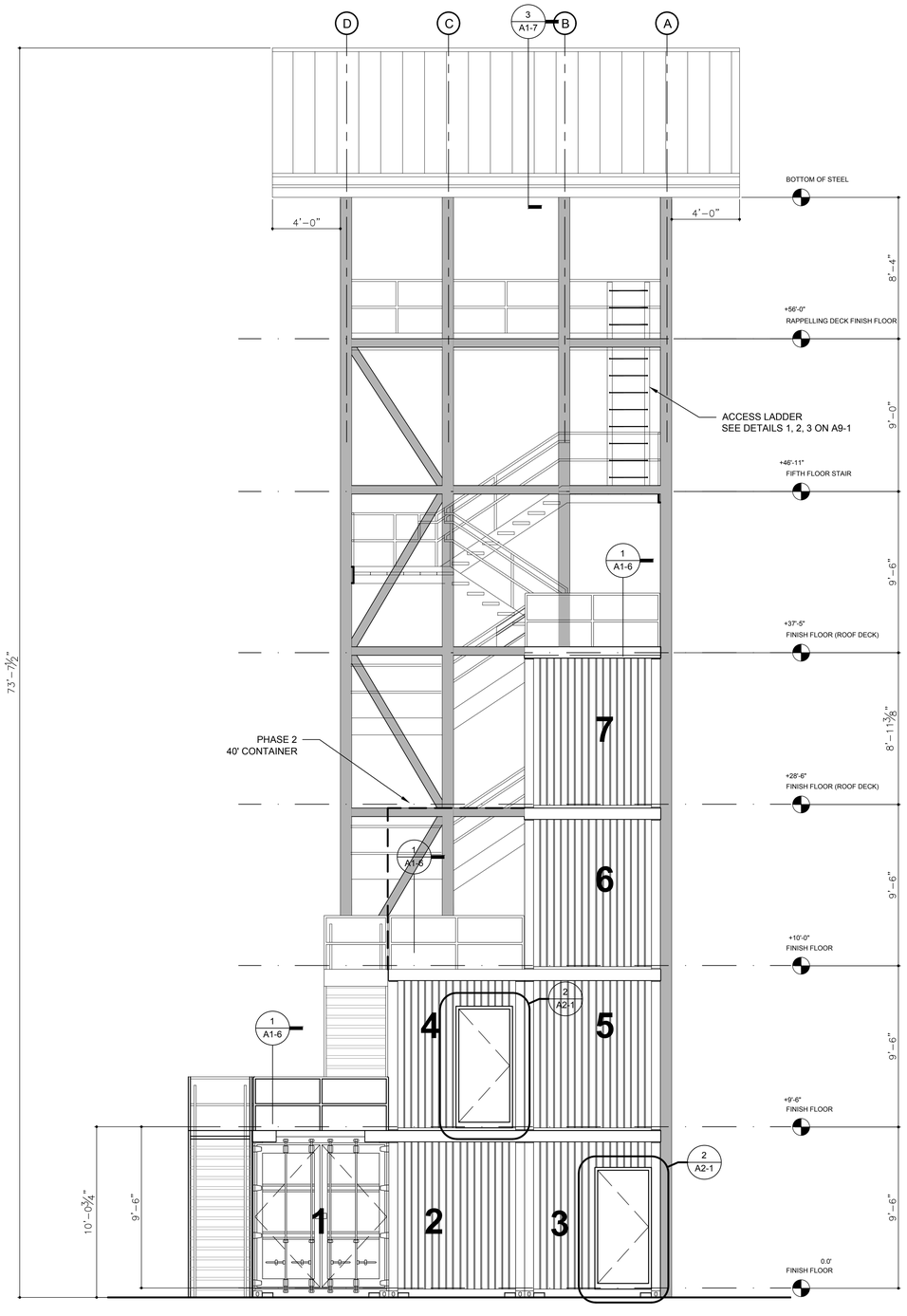
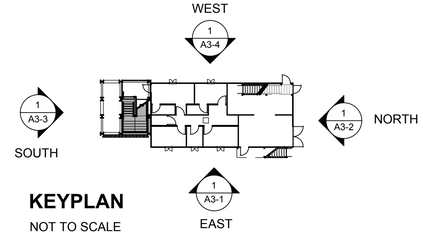
SHEET:
A3-1



1 A3-2 **EXTERIOR ELEVATION - NORTH**

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



KEYPLAN

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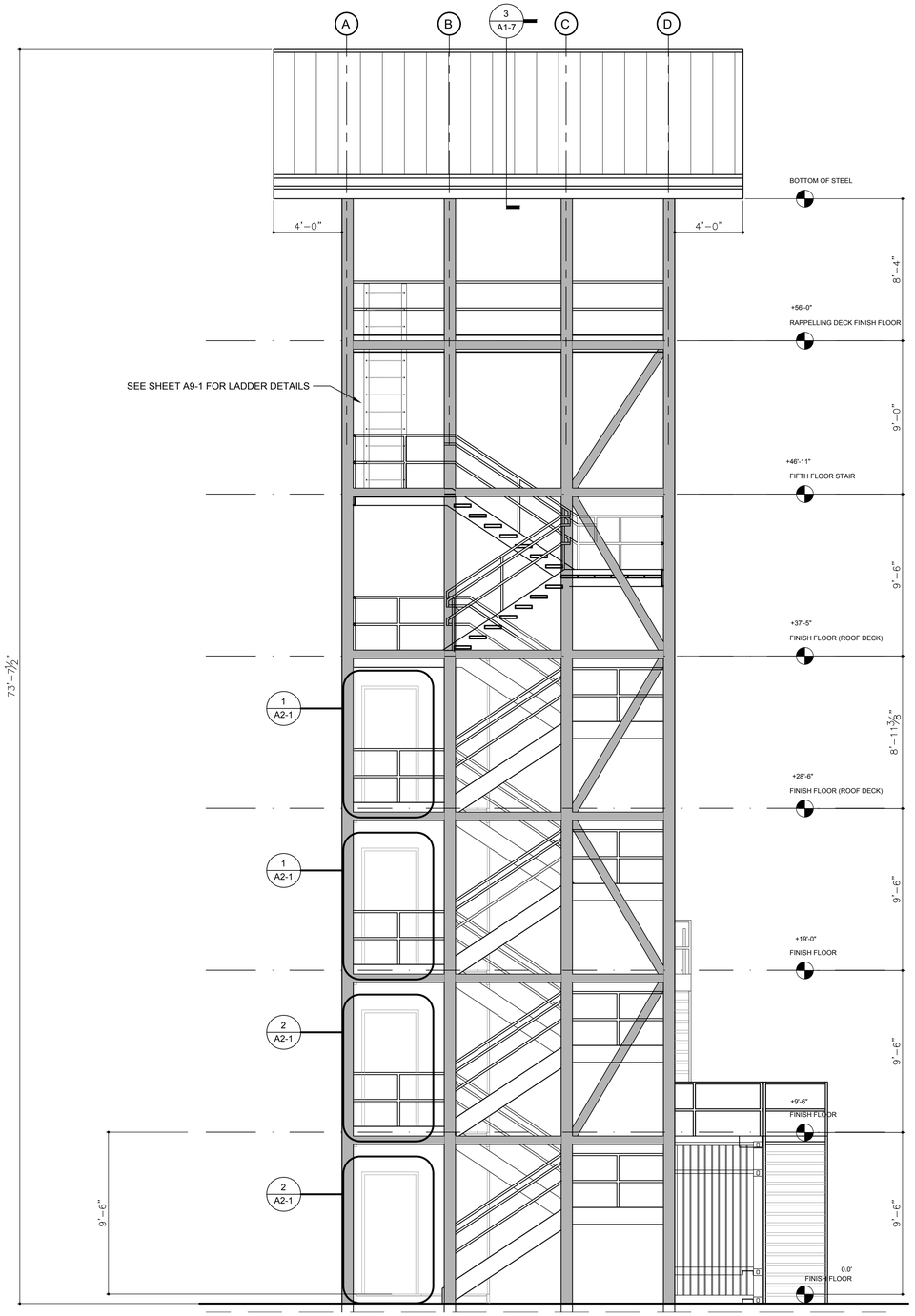
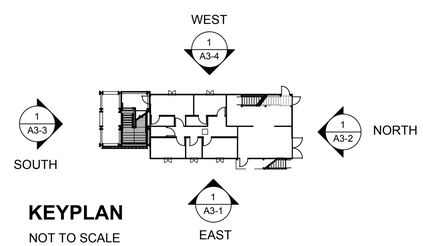
SHEET:
A3-2



1 A3-3 **RAPPELLING TOWER ELEVATION - SOUTH**

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



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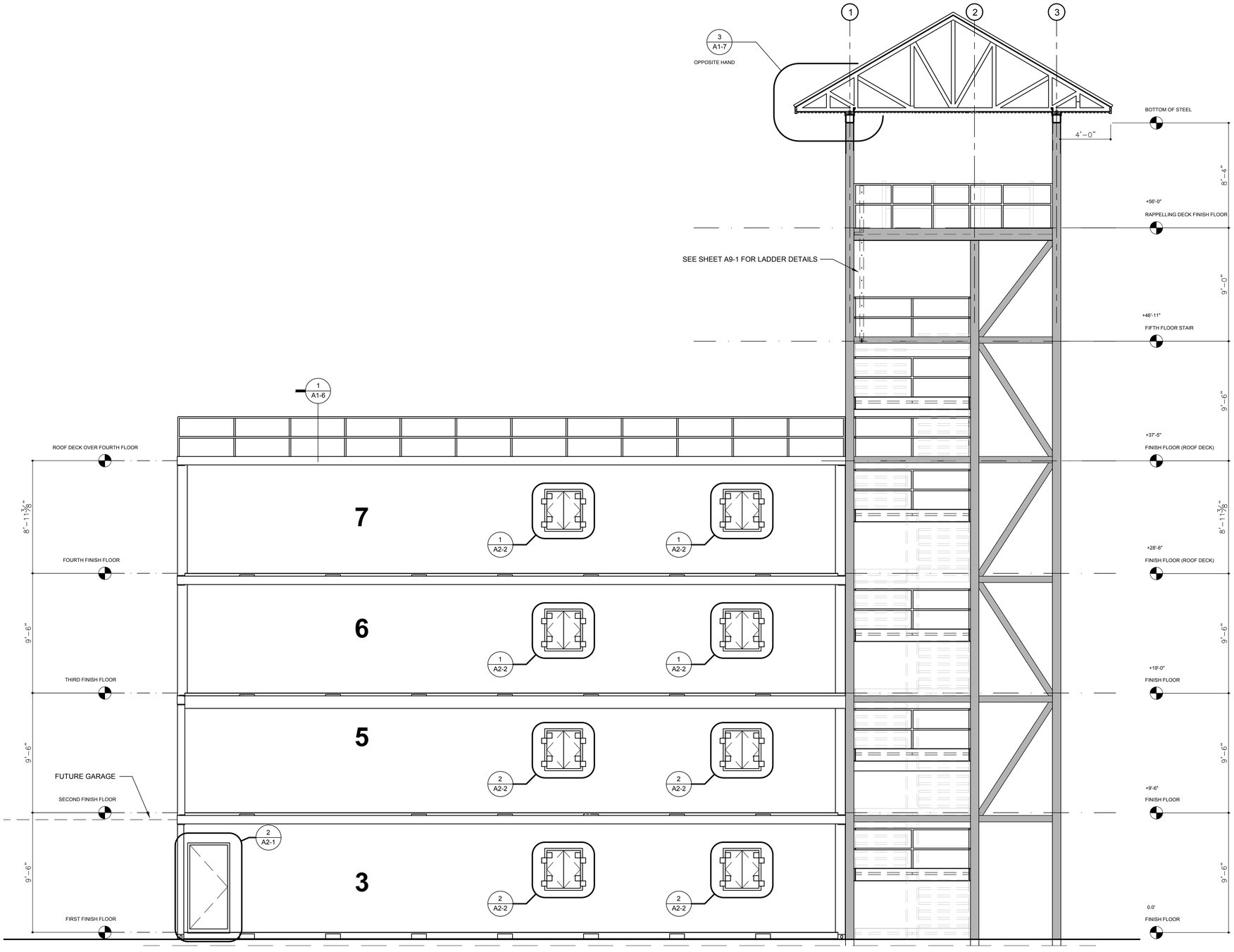
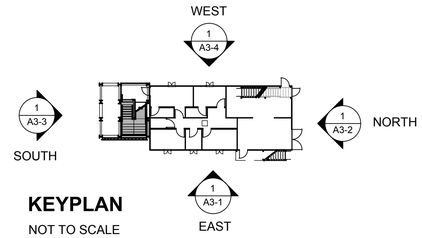
SHEET:
A3-3



1 A3-4 **EXTERIOR ELEVATION - WEST**

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



KEYPLAN

NOT TO SCALE

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1730

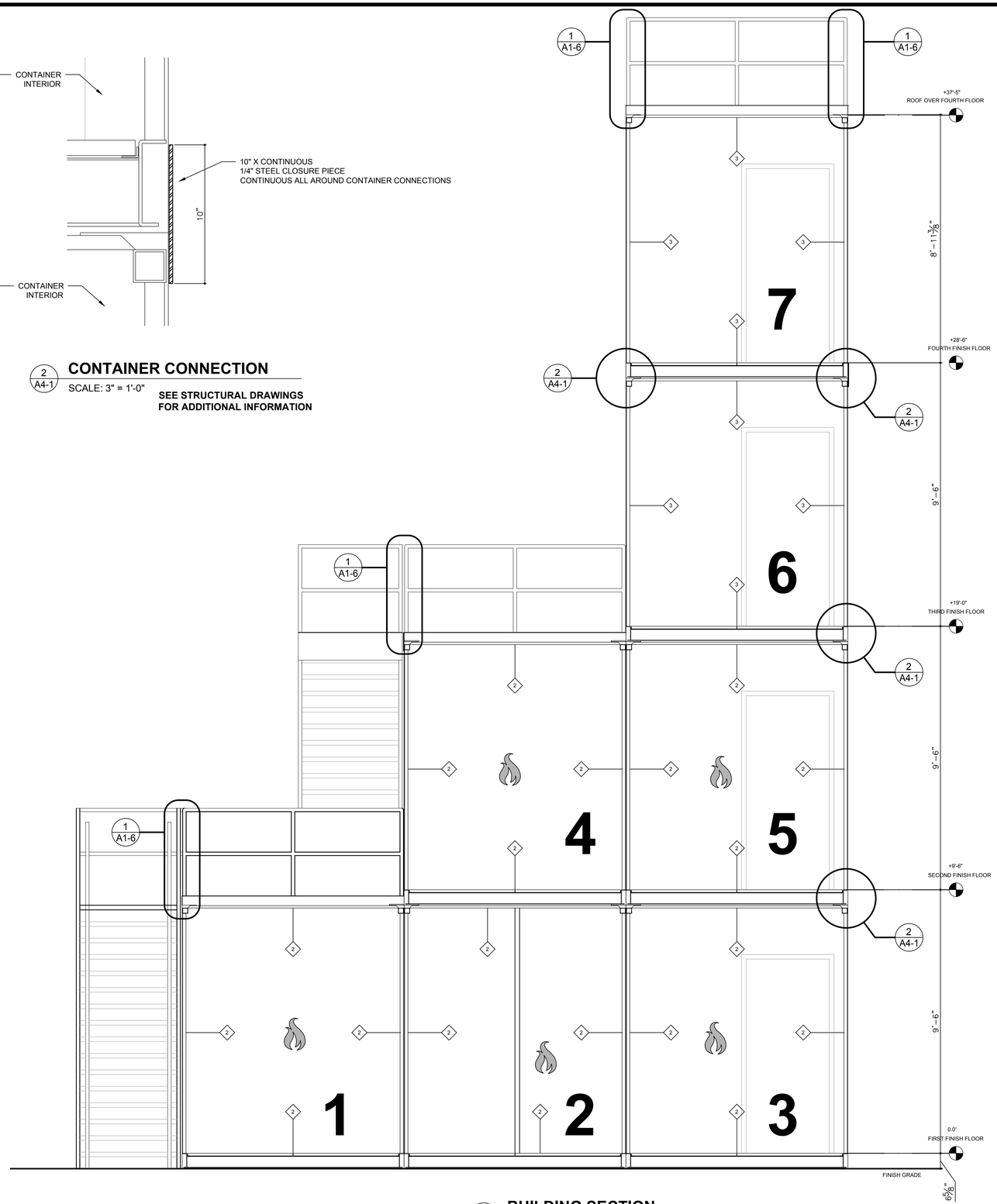
SHEET:
A3-4

CONTAINER CONNECTION

2 / A4-1

SCALE: 3" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION



BUILDING SECTION

1 / A4-1

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

WALL TYPES

1. BURN ROOM INTERIOR WALL (SEE 7/A1-6)
2. BURN ROOM EXTERIOR WALL, CEILING AND FLOOR SEE DETAIL 2/A1-8
3. NON-BURN ROOM INTERIOR WALL AND DOOR
4. BURN ROOM INSULATED DOOR WITH 1/4" STEEL PLATE BOTH SIDES
5. INSULATED WINDOW SHUTTERS SIMILAR TO BURN ROOM DOORS WITH LOCKING MECHANISM EXCEPT WITH 1/2" PLATE STEEL BOTH SIDES.

BURN ROOM: INSULATE THE FLOOR, WALLS, CEILING, DOORS & WINDOW SHUTTERS OF THIS SPACE.

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BUILDING SECTION

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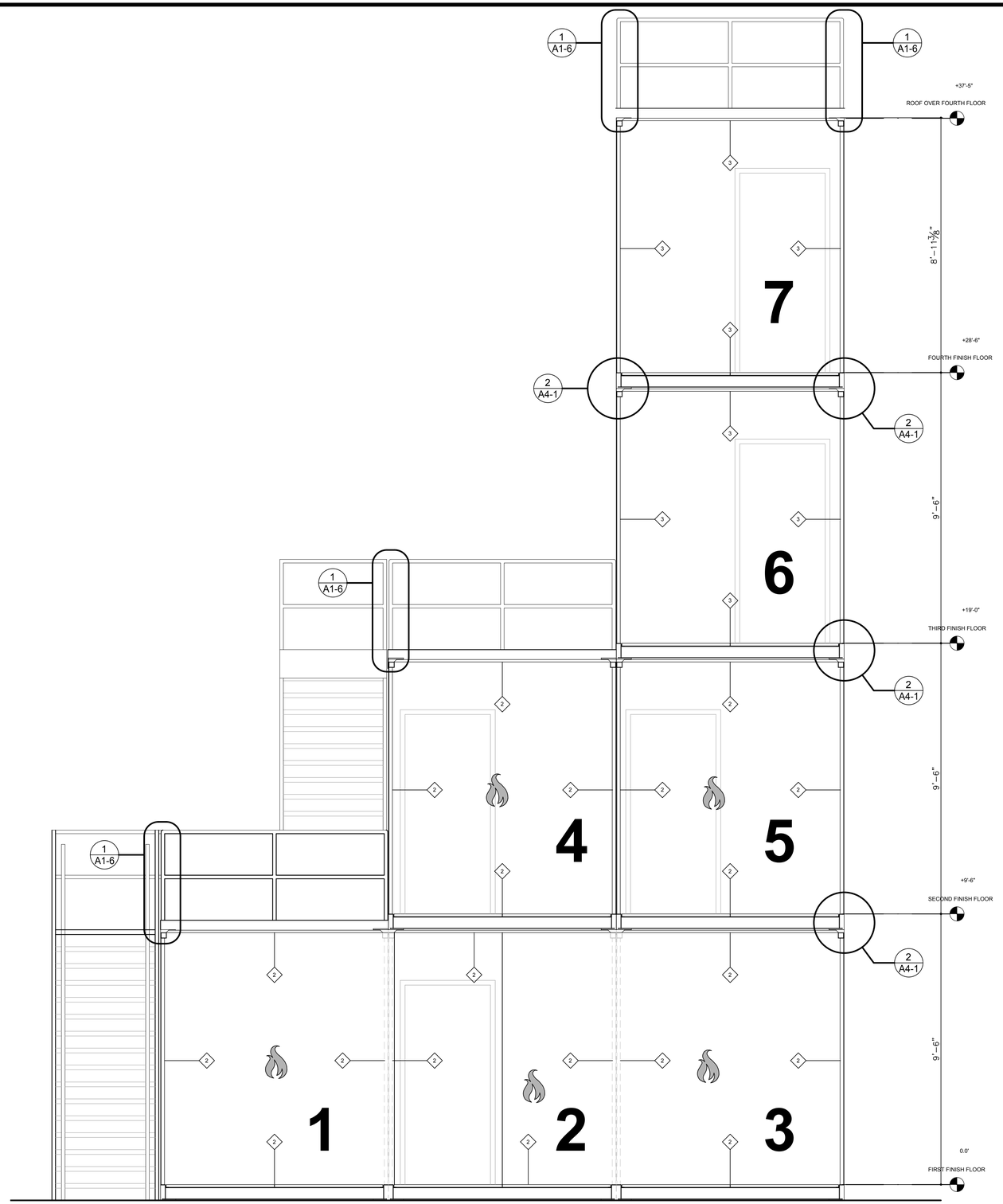
SHEET: **A4-1**



WALL TYPES

1. BURN ROOM INTERIOR WALL (SEE 7/A1-6)
2. BURN ROOM EXTERIOR WALL, CEILING AND FLOOR SEE DETAIL 2/A1-8
3. NON-BURN ROOM INTERIOR WALL AND DOOR
4. BURN ROOM INSULATED DOOR WITH 1/4" STEEL PLATE BOTH SIDES
5. INSULATED WINDOW SHUTTERS SIMILAR TO BURN ROOM DOORS WITH LOCKING MECHANISM EXCEPT WITH 1/2" PLATE STEEL BOTH SIDES.

BURN ROOM: INSULATE THE FLOOR, WALLS, CEILING, DOORS & WINDOW SHUTTERS OF THIS SPACE.

1 A4-2 **BUILDING SECTION**

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

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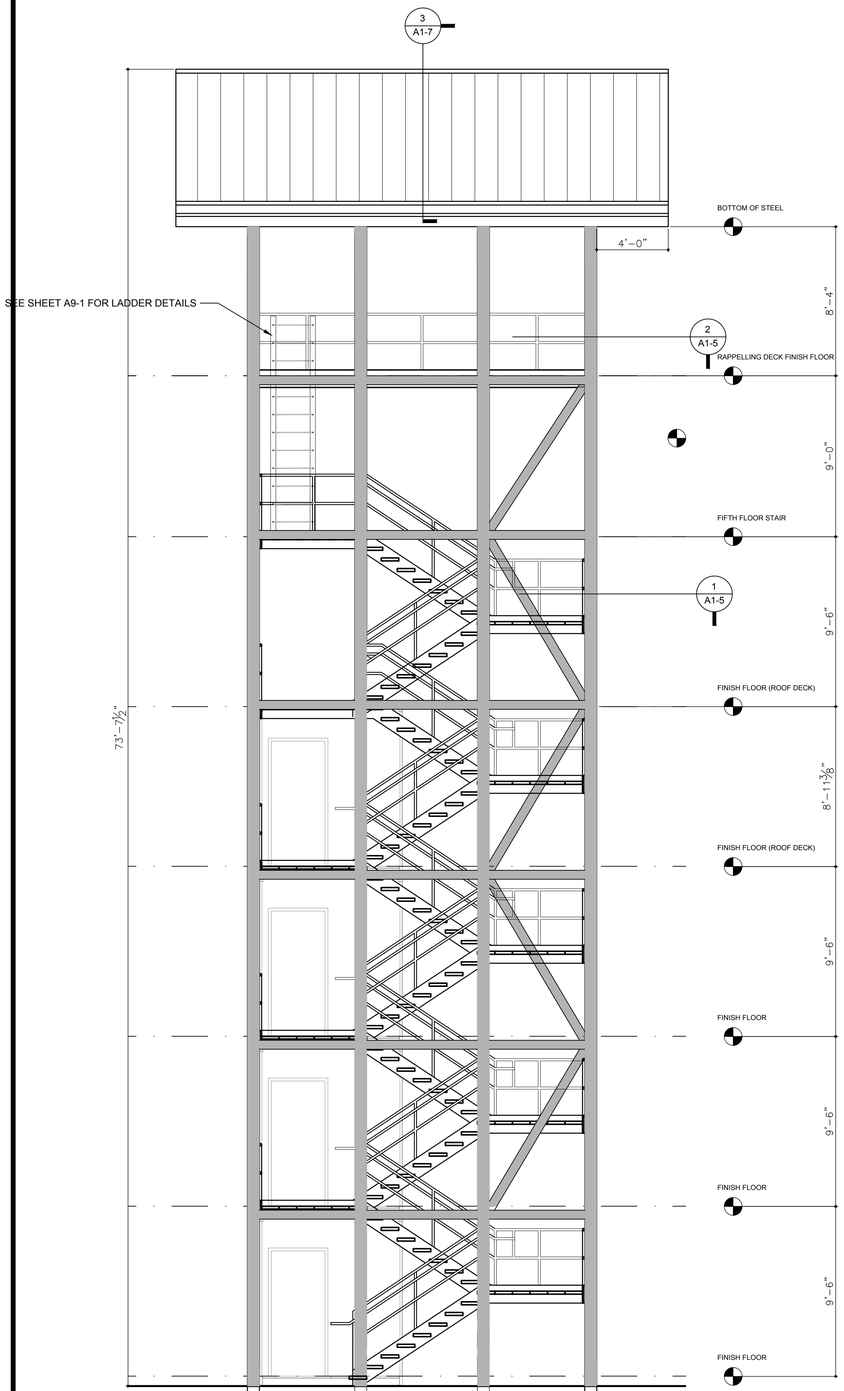
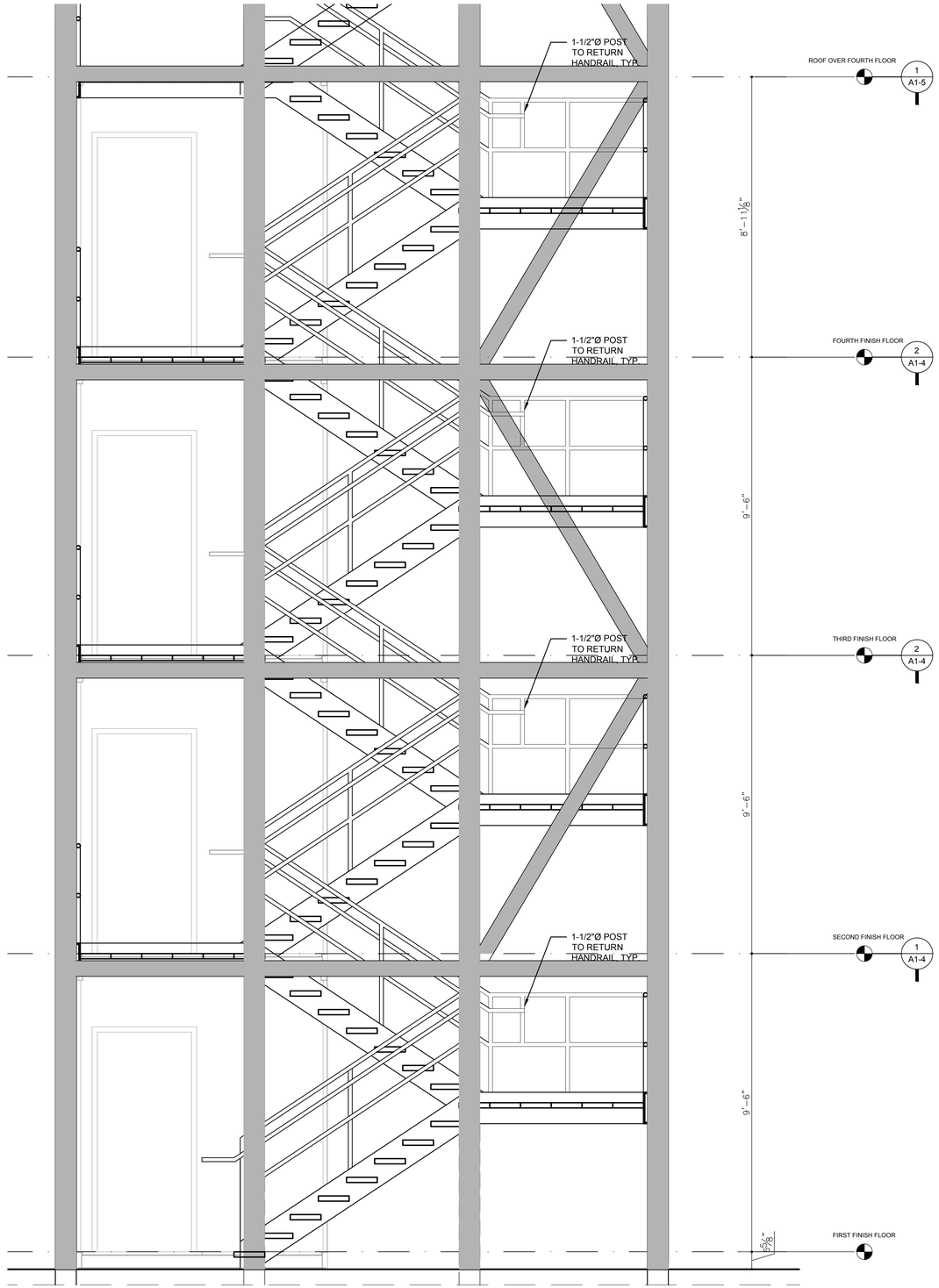
SHEET:
A4-2



1 A5-1 **TOWER SECTION**

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



2 A5-1 **TOWER SECTION**

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

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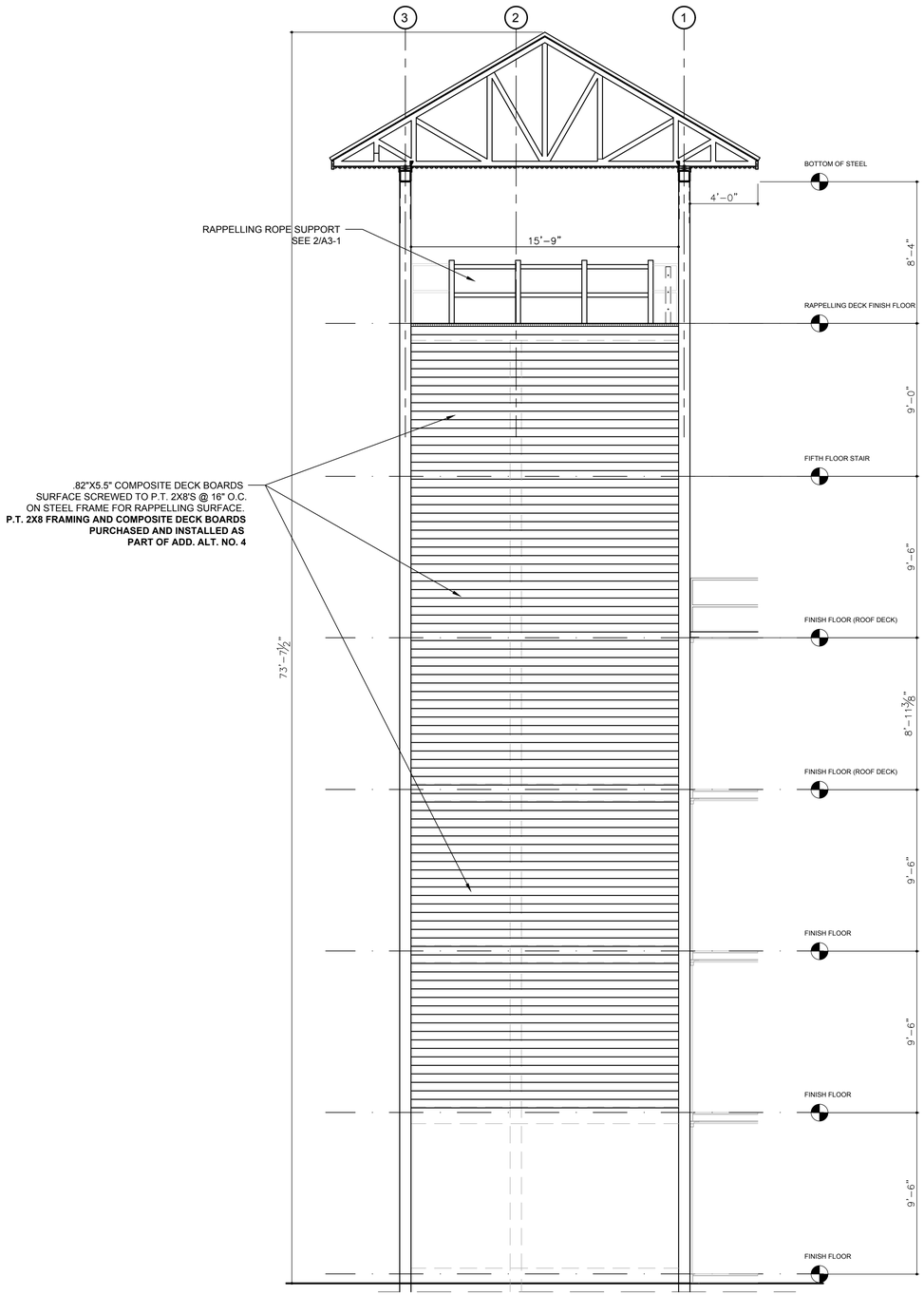
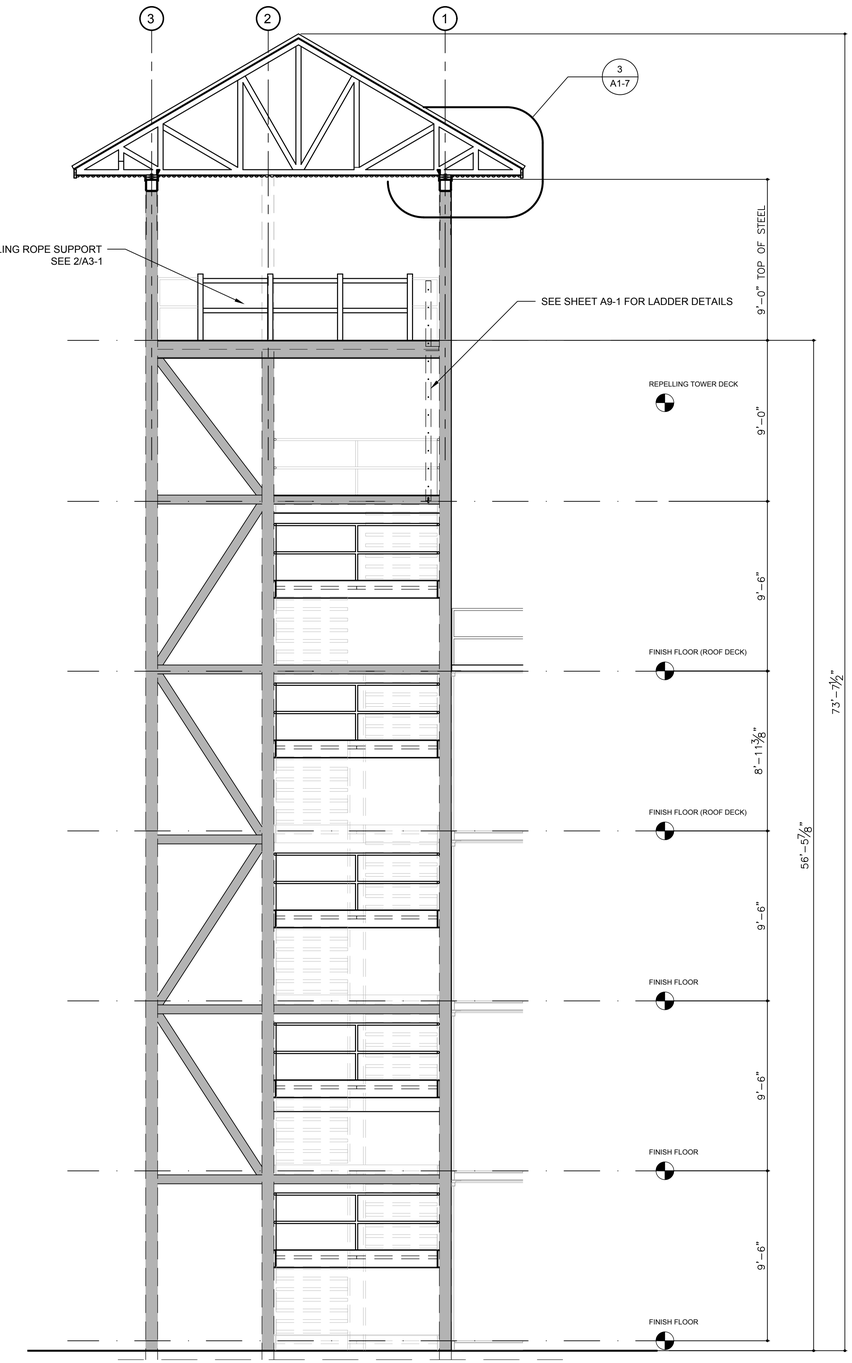
SHEET:
A5-1



1 A5-2 **TOWER ELEVATION WITH REPELLING SIDING**

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



2 A5-2 **TOWER SECTION / ELEVATION**

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

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LAGRANGE, GEORGIA

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TOWER SECTION

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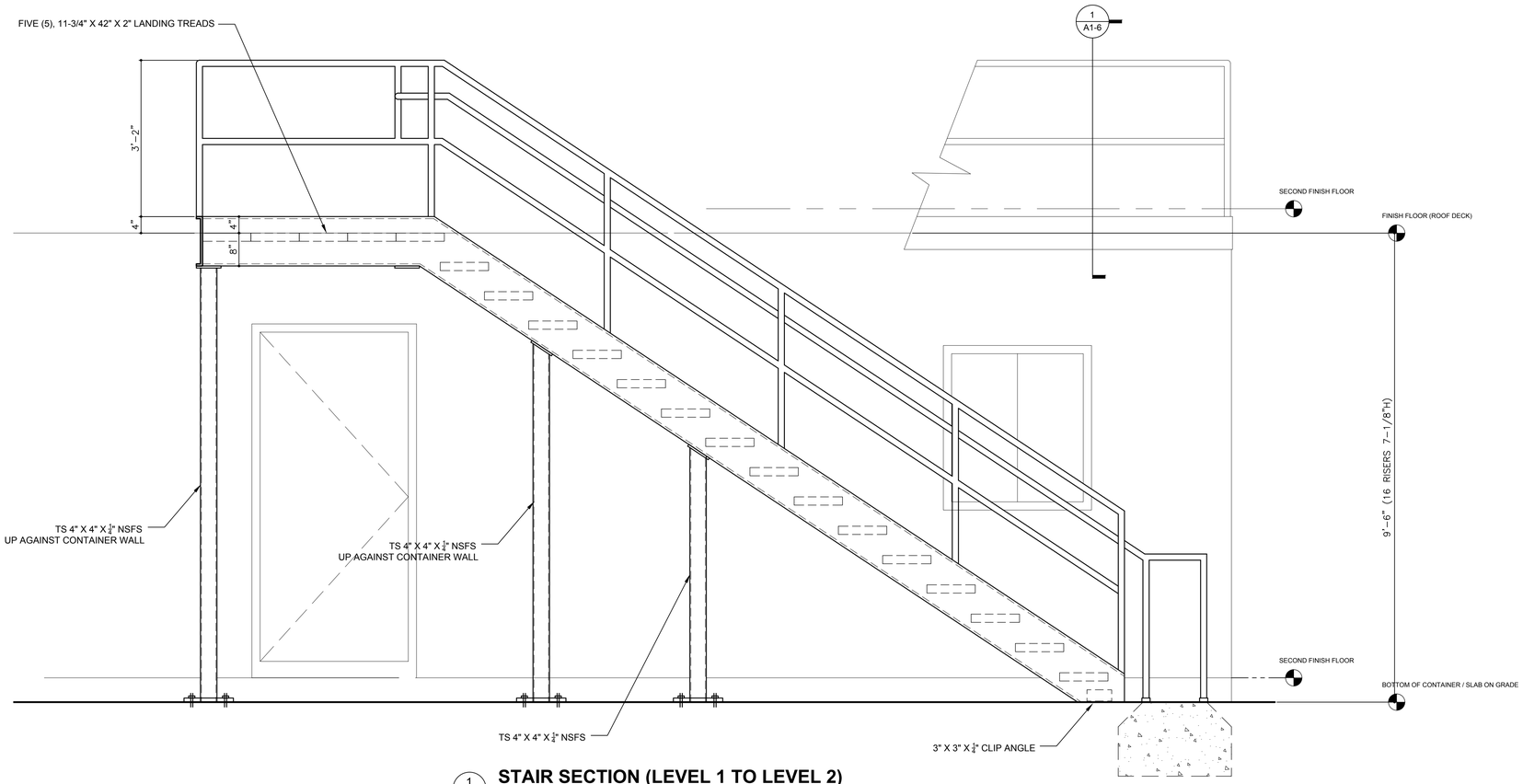
1730

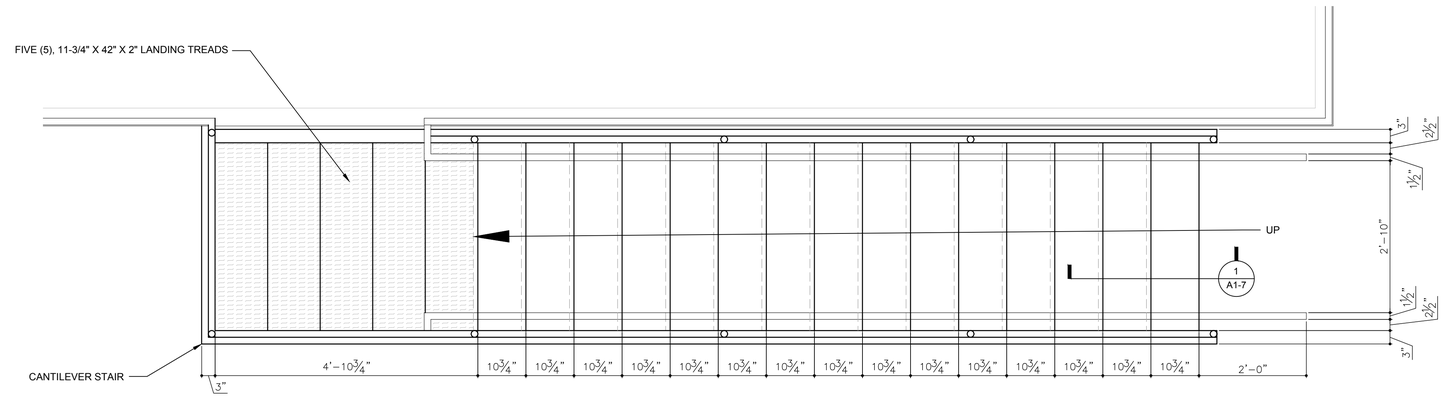
SHEET:
A5-2



1 A5-3 STAIR SECTION (LEVEL 1 TO LEVEL 2)

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

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION



2 A5-3 STAIR PLAN (LEVEL 1 TO LEVEL 2)

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

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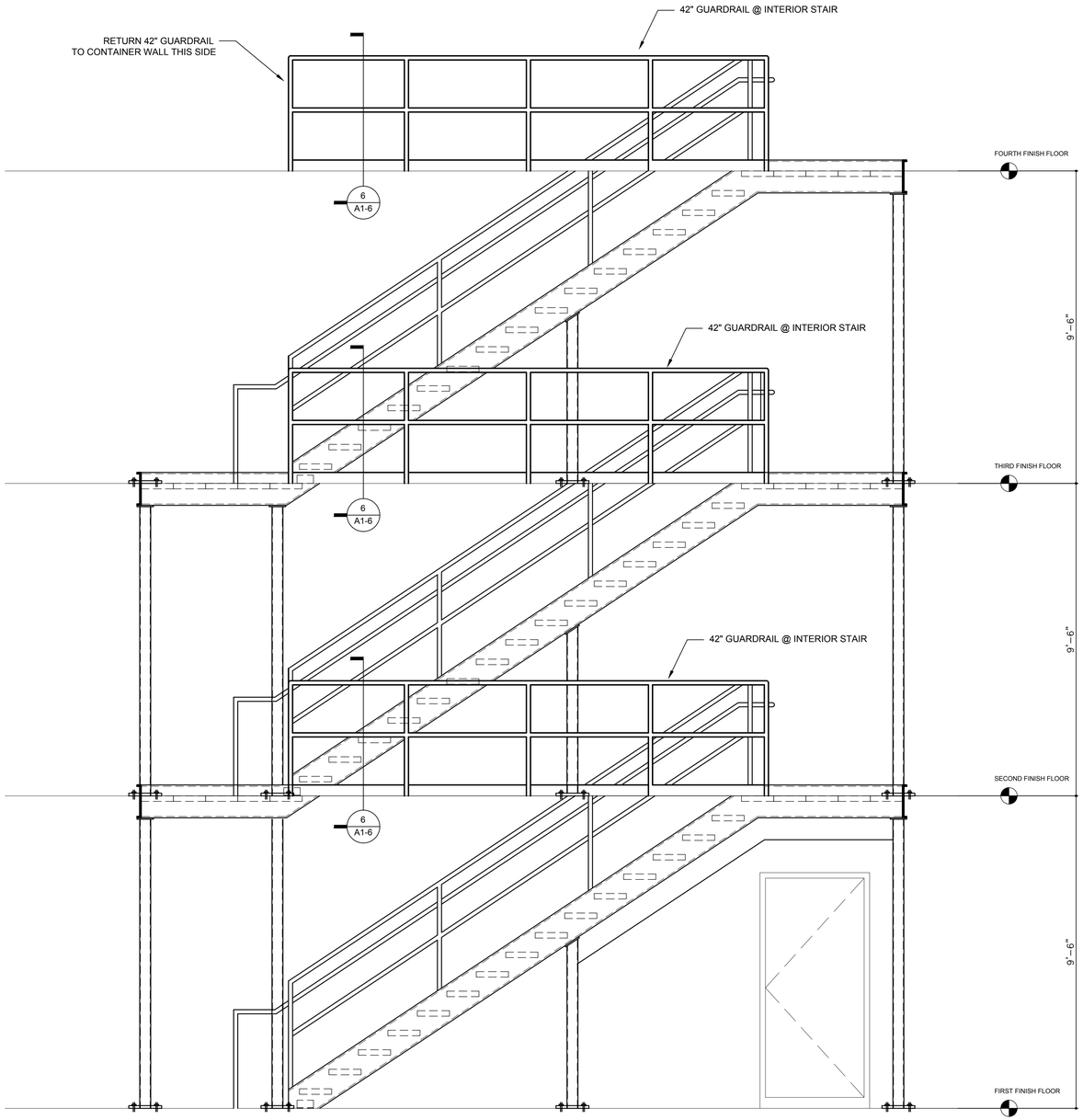

1 A5-4 **INTERIOR STAIR SECTION**

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

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

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SHEET:
A5-4

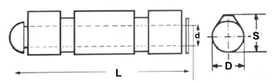
STEEL 3 PIECE HEAVY DUTY

REMOVABLE PIN TYPE:

A3E - Mild Steel (1015) with case hardened steel pin and brass washers. A locking "snap ring" washer at the end of the removable pin, keeps the pin in place.

Model	L Length inches	D/S Cross Section inches	d Pin Diameter inches	Weight Load Per Hinge lbs. *
A3E135	5.1/4"	23/32" - 29/32"	15/32"	1500
A3E150	6"	3/4" - 1"	1/2"	2000
A3E200	8"	29/32" - 1.1/8"	5/8"	4000

- Made from special profile steel for weld-on applications
- Pin with half-round head and sections with V-shaped flanges allow for ease of weld-on installation
- With brass washers

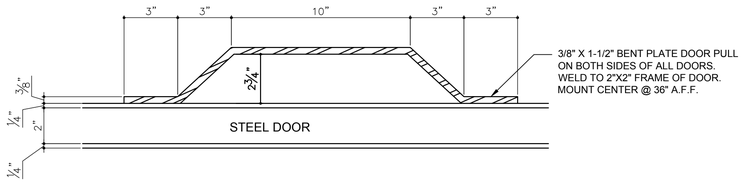


www.interconline.com **Toll Free: 1-800 665-6655**

A A9-1 3 KNUCKLE WINDOW AND DOOR HINGE

SCALE: NONE

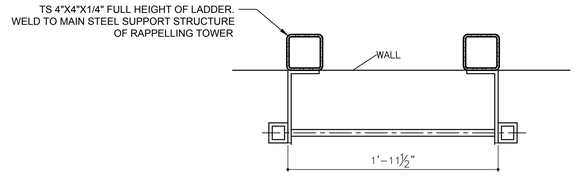
PROVIDE 3 HINGES PER DOOR LEAF AND 2 HINGES PER WINDOW SHUTTER LEAF.



B A9-1 DOOR PULL DETAIL

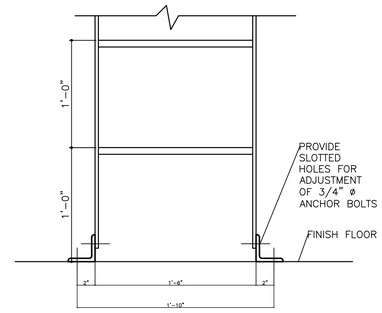
SCALE: 3" = 1'-0"

PROVIDE ON BOTH SIDES OF ALL DOORS.



1 A9-1 LADDER SECTION

SCALE: 1-1/2" = 1'-0"



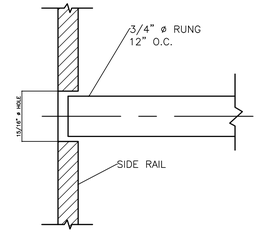
2 A9-1 TYPICAL LADDER FOOTING SECTION

SCALE: 1-1/2" = 1'-0"

G.C. TO SUBMIT DETAILED SHOP DWGS. THAT MEET OSHA REQUIREMENTS AND ANSI SPECIFICATIONS A 14.3

SUGGESTED STEEL LADDER FRAMING

MEMBER	SIZE	SUPPORT SPACING
LADDER SIDE RAILS	2 1/2" X 3/8"	8'-0" MAXIMUM
	3" X 3/8"	12'-0" MAXIMUM
	3 1/2" X 3/8"	16'-0" MAXIMUM
CAGE HOOP	5" X 3/8"	20'-0" MAXIMUM TOP AND BOTTOM
	2" X 3/8"	ALL INTERMEDIATES
CAGE VERTICALS	2" X 3/8"	SEE SECTION ABOVE
LADDER RUNGS	3/4" ø PLUG WELDED INTO SIDE RAILS	



3 A9-1 LADDER RUNG DETAIL

SCALE: 1-1/2" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

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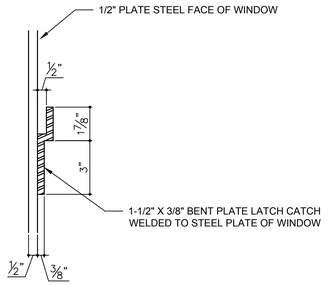
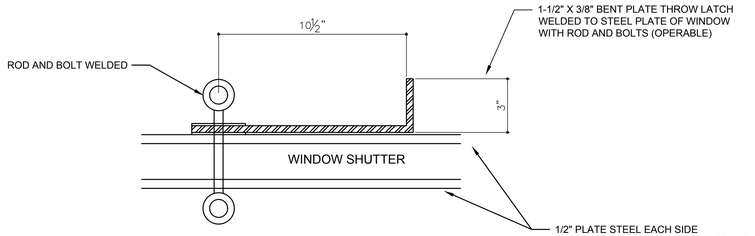
A9-1



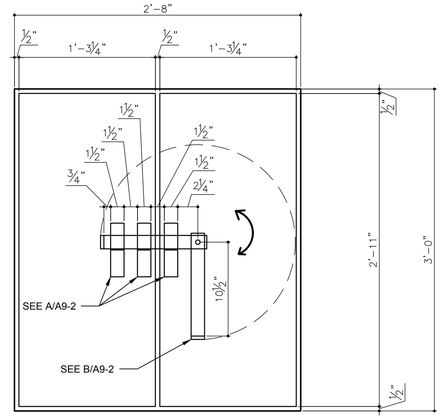
A / A9-2 **WINDOW LATCH CATCH DETAIL**

SCALE: 3" = 1'-0"



B / A9-2 **WINDOW LATCH DETAIL**

SCALE: 3" = 1'-0"



1 / A9-2 **INTERIOR LOCKING DEVICE FOR WINDOW SHUTTERS**

SCALE: 3" = 1'-0"

SCOUT TEMPERATURE MONITORING SYSTEM

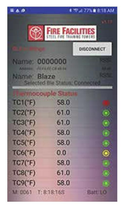
Continuous Monitoring.
Early Detection. Improved Safety.
It's What You Can Expect with a Scout on Your Side.

The Scout gives you immediate access to critical data at all times to help you quickly detect any unsafe conditions and determine if the training environment should be modified. The system's precise early-warning capabilities help you keep trainees safe during exercises, as well as keeping your training tower's structure protected from damage by excessive heat.

The Scout is integrated with hardware that interfaces with your PC and supports the seamless, instant transfer and storage of real-time training data. The system features a touch-sensitive, backlit display and controls, advanced data-logging capabilities, Bluetooth connectivity, internal alarm and control of external alarms, and Secure Digital Memory card. In short, every detail of the Scout system has been carefully designed to maximize your monitoring and response capabilities during a live fire-training exercise.

Scout Temperature Monitoring Systems Features

The Scout Temperature Monitoring System is designed to provide immediate, accurate and early detection information to help you keep personnel safe during live fire-training exercises.



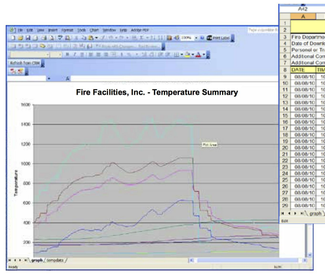
- **Bluetooth** - The Bluetooth connectivity features the ability to broadcast temperature information to a user supplied iPhone or Android device for a maximum range of 270 feet. The supplied phone app displays all of the information found on the screen of the pyrometer along with the ability to notify the user if the alarms are tripped or if you are disconnected from the pyrometer. This unique application allows the training/safety officer to be away from the area where the pyrometer is installed, while still being able to monitor the temperatures within the burn rooms.
- **Simultaneous display** - LCD shows temperatures of nine separate thermocouples at the same time, with maximum temperature reading, built-in clock, and battery life indicator.
- **Touch-sensitive controls** - Easy to use. No switches or dials to manipulate.
- **Backlit display** - Read display in any light conditions.
- **On-screen programming** - Provides access to adjust pyrometer controls, to enable specific data collection and safety parameter set-up.
- **Support for training** - Onboard memory sustains 90 hours of logged time and temperature data that is downloadable via Secure Digital Memory card.
- **Adjustable sampling rate** - Allows data to be recorded into the memory at adjustable rates up to four samples per location each minute.
- **Superior protection** - Polycarbonate housing provides durable moisture barrier and a tough exterior. The steel weather proof, lockable cabinet prevents loss or damage.

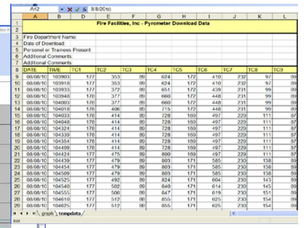
FIRE FACILITIES
STEEL FIRE TRAINING TOWERS ®

SCOUT TEMPERATURE MONITORING SYSTEM

- **Battery powered** - Training site does not require AC power for pyrometer function. The separate battery pack is provided for easy access to the power supply.
- **Smooth, secure instant data transfer** - Each unit includes a Data Transfer Device (DTD) to allow infrared transfer of data from the pyrometer. Data can then be brought to an offsite Windows based computer for download via the SD/SDHC data storage card provided.

- **Interactive, Microsoft® based software** - A visual basic program is provided to allow the user to customize input and also automatically convert the temperature data to both an electronic data sheet and graph via the user's own Microsoft Excel software. (See examples below).
- **Training documentation** - Is achieved by saving logged-data sets and incorporating participants for each training session. Documentation includes recorded temperatures and data, as well as time stamp information. Electronic or hard copies can be produced for training documentation and ISO classification.
- **Internal audio alarm** - Each pyrometer provided with built-in, preset adjustable alarm for each thermocouple.
- **External alarm controls** - Unit capable of supporting additional separate preset electrical devices, such as cellular texting alarms, warning systems, lights, buzzers, horns, and sirens.
- **Warranted** - Supported by a one-year warranty.





A user can automatically convert the temperature data to both an electronic data sheet and graph via the user's own Microsoft Excel software.

FIRE FACILITIES
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LOCKSET INSTALLATION COST IN BASE BID.

2 / A9-2

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LAGRANGE, GEORGIA

TITLE:

DETAILS

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