

COMMONWEALTH OF VIRGINIA
BURN BUILDING PROP PROTOTYPE 1
CLASS A FUEL

Street Address
City, Virginia, Zip Code

OWNER
LOCALITY/MUNICIPALITY

Street Address
City, Virginia, Zip Code
Phone:
Fax:

BURN BUILDING GRANT
FUNDS PROVIDED BY:

COMMONWEALTH of VIRGINIA
Department of Fire Programs

1005 Technology Park Drive
Glen Allen, VA 23059
Phone: (804) 371-0220

ARCHITECT/ ENGINEER
ARCHITECT AND/OR ENGINEERING FIRMS

Street Address
City, State Zip Code
Phone:
Fax:

THIS IS A PROTOTYPICAL DESIGN SET OF
DRAWINGS NOT INTENDED FOR
CONSTRUCTION. THESE DRAWINGS ARE
INTENDED TO BE USED IN CONJUNCTION WITH
THE PROJECT MANUAL AND SPECIFICATIONS
BY AN ARCHITECT/ENGINEER EMPLOYED BY
THE GRANT RECIPIENT IN THE DESIGN OF A
NEW BURN BUILDING PROP.

BUILDING CODE DATA

JURISDICTION:
CITY/COUNTY, VIRGINIA

BUILDING CODE:
A. VIRGINIA UNIFORM STATEWIDE BUILDING CODE
(VUSBC) 2009 EDITION
B. INTERNATIONAL BUILDING CODE (IBC) 2009
EDITION AS AMENDED BY VUSBC

USE GROUP/OCCUPANCY (IBC SECTIONS 304, 311, 1003):

	FLOOR AREA (SQ. FT.)	DENSITY (SQ. FT./PERSON)	OCCUPANTS
BUILDING, GROSS	1,730	50	34

*NOTE THE STRUCTURE IS DESIGNED AS A TRAINING PROP AND IS NOT HEATED OR AIR CONDITIONED
AND DOES NOT INCLUDE RESTROOMS.

CONSTRUCTION TYPE (IBC SECTION 602):
(II B) NON-COMBUSTIBLE/UNPROTECTED

SPRINKLED:
NOT REQUIRED

HEIGHT/AREA LIMITATIONS (IBC SECTION 503):

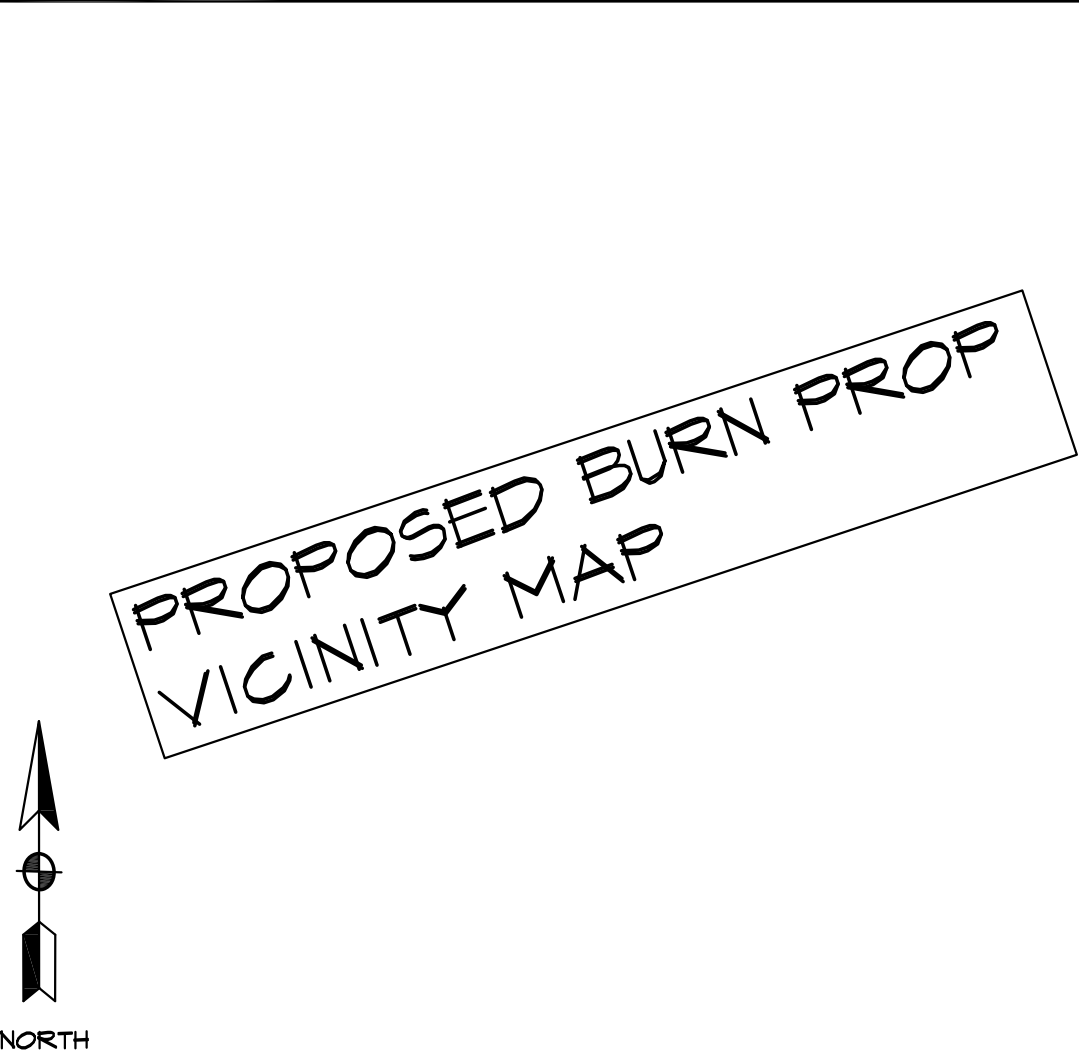
TOTAL:	ALLOWABLE:	
A) AREA:	1,730 SQ. FT.	8,500 SQ. FT.
B) HEIGHT:	+/- 26'-0" (2 STORY)	40'-0" (2 STORY)

*NOTE: A CODE MODIFICATION REQUEST MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR
CONSTRUCTION OF THIS NON-HABITABLE TRAINING PROP.

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LOCATION MAP



PRIME PROFESSIONAL
FIRM LOGO

Project Title
COMMONWEALTH OF
VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

SUB-CONSULTANT'S
LOGO



Department
of
Fire Programs

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CONSTRUCTION
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No.	REVISIONS	Date

Sheet Title
TITLE SHEET, BUILDING
CODE DATA, &
LOCATION MAP
CITY/COUNTY VIRGINIA
Drawn By: SJS Approved By: MAM
Checked By: SMF Date: 04/11/13

PROFESSIONAL
SEAL

Sheet No.

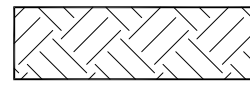
T0.1

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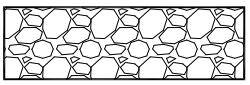
ABBREVIATIONS

Ø	AT	JT	JOINT
ADJ	ADJACENT, ADJUSTABLE	L	LENGTH
AFF	ABOVE FINISHED FLOOR	LB(S)	POUND, POUNDS
AGG	AGGREGATE	MATL	MATERIAL
ANCH	ANCHOR, ANCHORAGE	MAX	MAXIMUM
ANOD	ANODIZED	MEGH	MECHANICAL
APFD	APPROVED	MED	MEDIUM
ARCH	ARCHITECTURAL	MANUF	MANUFACTURER
ASSOC	ASSOCIATED	MIN	MINIMUM
AUTO	AUTOMATIC	MISC	MISCELLANEOUS
AUX	AUXILIARY	MO	MASONRY OPENING
AVG	AVERAGE	MTD	MOUNTED
BLDG	BUILDING	MTG HT	MOUNTING HEIGHT
BLK	BLOCK	MTL	METAL
BOTT	BOTTOM	N/A	NOT APPLICABLE
BR	BURN ROOM	NEG	NECESSARY
CEM	CEMENT	NIC	NOT IN CONTRACT
CHK'D	CHECKED	NTS	NOT TO SCALE
CJ	CONTROL JOINT	NO#	NUMBER
CL	CENTER LINE	NOM	NOMINAL
CLG	CEILING	OC	ON CENTER
CLR	CLEAR	OD	OUTSIDE DIAMETER
CNU	CONCRETE MASONRY UNIT	OH	OVERHEAD
COL	COLUMN	OPENS	OPENING
CONC	CONCRETE	OPP	OPPOSITE
CONT	CONTINUOUS	PART	PARTITION
CONTR	CONTRACTOR	PL	PLATE
COORD	COORDINATE	PLUMB	PLUMBING
CTR	CENTER	PR	PAIR
D	DEEP (DEPTH)	PREFAB	PREFABRICATED
DBL	DOUBLE	PROV	PROVIDE
DEP	DEPRESSION, DEPRESS	PSF	POUNDS PER SQUARE FOOT
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DIA	DIAMETER	PT	PAINT, POINT
DIM	DIMENSION	PVC	POLYVINYL CHLORIDE
DN	DOWN	R	RADIUS, RISER
DR	DOOR	REF	REFLECTED, REFERENCE, REFER
DWG(S)	DRAWING(S)	REINF	REINFORCEMENT
DWL	DOWEL	REQ	REQUIRE, REQUIRED
EA	EACH	REV	REVISE, REVISION
ELEV	ELEVATION	RH	RIGHT HAND
ELECT	ELECTRICAL	RO	ROUGH OPENING
ENCLOS	ENCLOSURE	RM	ROOM
EQ	EQUAL	SCHED	SCHEDULE
EQUIP	EQUIPMENT	SEAL	SEALANT
EXP	EXPANSION, EXPOSED	SHT	SHEET
EJ	EXPANSION JOINT	SIM	SIMILAR
EXT	EXTERIOR	SPEC(S)	SPECIFICATION
FDN	FOUNDATION	SQ	SQUARE
FIN	FINISH	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FLEX	FLEXIBLE	STL	STEEL
FRT	FIRE RETARDANT TREATED	STRUC	STRUCTURAL (STRUCTURE)
FT(F)	FEET (FOOT)	SUSP	SUSPEND, SUSPENDED
FTG	FOOTING	T	TOP, THICK
GA	GAUGE	T4B	TOP AND BOTTOM
GALV	GALVANIZED	TEMP	TEMPERED, TEMPORARY, TEMPERATURE
GC	GENERAL CONTRACTOR	THK	THICK, THICKNESS
GEN	GENERAL	THRU	THROUGH
H	HIGH	TS	STRUCTURAL STEEL TUBE OR TOP OF STEEL
HDW	HARDWARE	TYP	TYPICAL
HM	HOLLOW METAL	UL	UNDERWRITERS LABORATORIES
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HP	HIGH POINT	VERT	VERTICAL
HT(H)	HEIGHT	V.I.F.	VERIFY IN FIELD
(IN")	INCH	WT	WEIGHT
INFO	INFORMATION	WNF	WELDED WIRE FABRIC
INSUL	INSULATE, INSULATION	W	WIDTH, WIDE
INT	INTERIOR	W/	WITHIN
		W/O	WITHOUT
		WP	WORKING POINT

MATERIAL INDICATIONS



EARTH



GRANULAR FILL



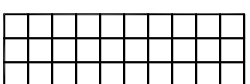
STEEL



CONCRETE MASONRY UNIT



FIRE BRICK

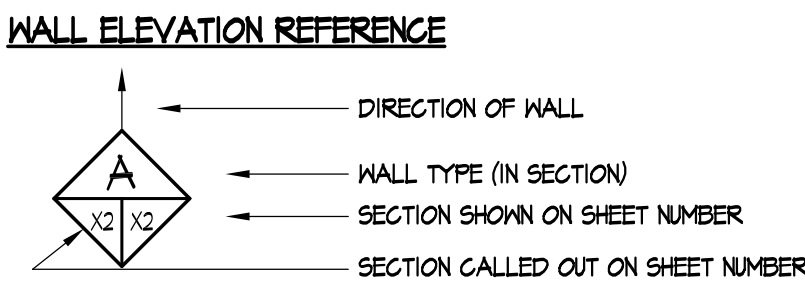
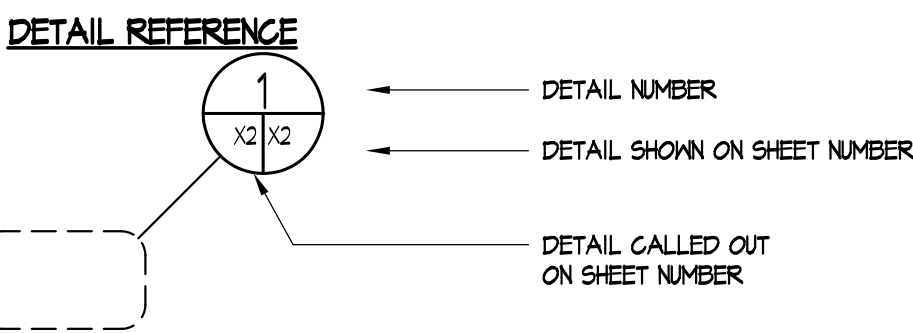
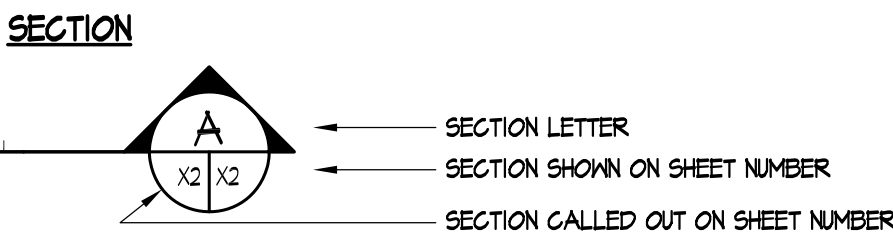
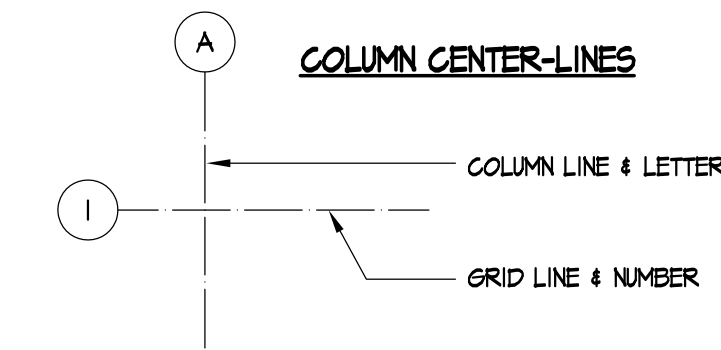


INSULATION

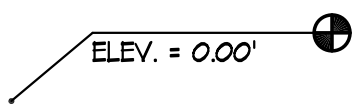


CONCRETE

GRAPHIC SYMBOLS



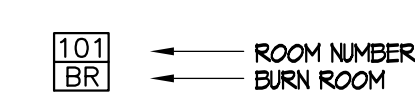
SPOT ELEVATION- NEW



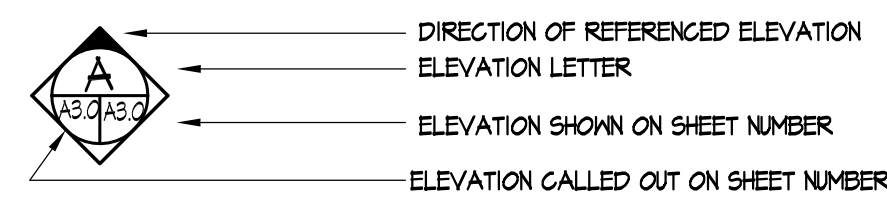
DOOR NUMBER



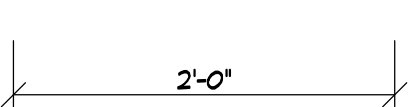
ROOM NUMBER



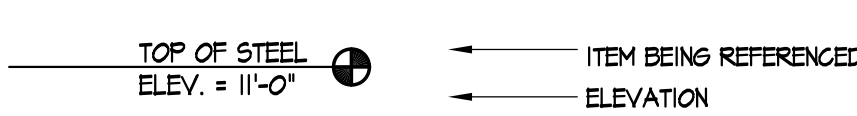
EXTERIOR ELEVATION



DIMENSIONING CONVENTIONS



ELEVATION TARGET



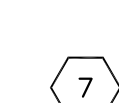
WINDOW TYPE



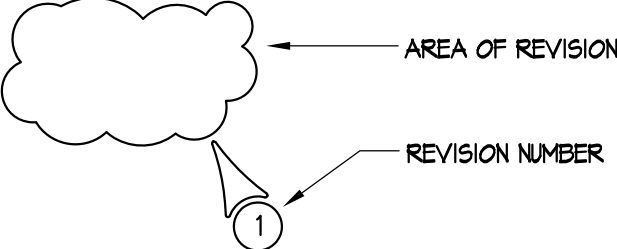
NORTH ARROW



KEY NOTE



REVISION



LIMITS OF CONSTRUCTION

PRIME PROFESSIONAL FIRM LOGO

Project Title
COMMONWEALTH OF VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

SUB-CONSULTANT'S LOGO



Department of Fire Programs

NOT FOR CONSTRUCTION

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No.	REVISIONS	Date

Sheet Title ABBREVIATIONS, MATERIAL INDICATIONS, & GRAPHIC SYMBOLS	
CITY/COUNTY	VIRGINIA
Drawn By: SJS	Approved By: MAM
Checked By: SMF	Date: 04/11/13

PROFESSIONAL SEAL

Sheet No.

A0.1

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GENERAL NOTES:

GENERAL:

- I. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
- A. THE VIRGINIA UNIFORM STATENIDE BUILDING CODE (VUBEC), 2009 EDITION.
 - B. THE INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION AS AMENDED BY THE VUBEC.
 - C. ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
2. MAINTAIN UTILITY EQUIPMENT IN SERVICE AND PROTECT AGAINST DAMAGE DURING CONSTRUCTION. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY THE BUILDING MANAGER AND AUTHORITIES HAVING JURISDICTION. IF REQUIRED BY THE OWNER, AT THE CONTRACTOR'S EXPENSE, PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES. PROVIDE NO LESS THAN 12 HOURS PRIOR NOTICE TO THE OWNER AND THE BUILDING MANAGER IF SHUTDOWN OF SERVICE IS REQUIRED.

DESIGN LOADS:

1. BUILDING CLASSIFICATION CATEGORY _____ II
2. GROUND SNOW P_g _____ 30 PSF*
FLAT ROOF SNOW LOAD, P_f _____ 23 PSF*
SNOW EXPOSURE FACTOR, C_e _____ 0.9
SNOW THERMAL FACTOR, C_t _____ 1.2
SNOW IMPORTANCE FACTOR, I _____ 1.0
3. WIND SPEED _____ 110 MPH*
EXPOSURE _____ C*
IMPORTANCE FACTOR, I _____ 1.0
INTERNAL PRESSURE COEFFICIENT _____ ±0.18
4. COMPONENTS AND CLADDING (A = 10 SGFT):
ROOF WIND LOADING:
ZONE 1 _____ +12.5, -21.8 PSF*
ZONE 2 _____ +12.5, -36.5 PSF*
ZONE 3 _____ +12.5, -55.0 PSF*
WALL WIND LOADING:
ZONE 4 _____ +21.8, 0, -23.6 PSF*
ZONE 5 _____ +21.8, -24.1 PSF*
5. LIVE LOADS: _____
UNIFORM
FLAT AND SLOPED ROOFS _____ 100 PSF
FLOORS _____ 100 PSF
STAIRS _____ 100 PSF
* MINIMUM CONCENTRATED LOAD OF
300 POUNDS ON STAIR TREADS (ON
AREA OF 4 SQUARE INCHES)
EXTERIOR APRON _____ 125 PSF
6. SEISMIC DESIGN:
SEISMIC IMPORTANCE FACTOR, I _____ 1.0
MAPPED SPECTRAL RESPONSE ACCELERATION S_s _____ 0.42*
MAPPED SPECTRAL RESPONSE ACCELERATION S₁ _____ 0.115*
SEISMIC USE GROUP _____ I
SITE SOIL CLASS _____ D*
SPECTRAL COEFFICIENT, S_{ds} _____ 0.448*
SPECTRAL COEFFICIENT, S_{d1} _____ 0.184*
SEISMIC DESIGN CATEGORY _____ C*
BASIC STRUCTURAL SYSTEM _____ MOMENT FRAME
SEISMIC FORCE RESISTING SYSTEM _____ C-6 (ASCE 7-05
TABLE 12.2-1)
DESIGN BASE SHEAR _____ 53.0 KIPS*
SEISMIC RESPONSE COEFFICIENT C_s _____ 0.04*
RESPONSE MODIFICATION COEFFICIENT R _____ 5
SEISMIC ANALYSIS _____ EQUIV. LATERAL FORCE PROCEDURE

*VERIFY WITH LOCAL JURISDICTION

ARCHITECTURAL:

1. UNLESS NOTED OTHERWISE, ALL PARTITIONS ARE DIMENSIONED TO THE FACE OF CMU.
2. THE DATUM ELEVATION IS TAKEN AT THE TOP OF THE EXTERIOR APRON SLAB WHERE THE APRON INTERSECTS THE PERIMETER OF THE BUILDING (EXCEPT AT GROUND FLOOR DOORS).
3. THE DATUM ELEVATION IS XXX FEET.
4. ALL BUILDING ELEVATIONS ARE SHOWN IN THE PLANS AS +XXX OR -XXX IN FEET RELATIVE TO THE DATUM.

FOUNDATIONS:

1. CONTRACTOR SHALL NOTIFY "MISS UTILITY" PRIOR TO BEGINNING EXCAVATION FOR LOCATION OF UNDERGROUND UTILITIES.
2. EXTERIOR FOOTINGS AND COLUMN FOOTINGS WERE DESIGNED TO BEAR ON UNDISTURBED SOIL BELOW THE FROST LINE A MINIMUM OF 2'-0" BELOW EXISTING GRADE
3. MINIMUM SOIL BEARING PRESSURE IS ASSUMED TO BE 3000* PSF AND THE OWNER SHALL EMPLOY A GEOTECHNICAL ENGINEER TO VERIFY THAT THIS ALLOWABLE SOIL BEARING PRESSURE IS ATTAINABLE. IF THIS IS NOT ATTAINABLE, THE OWNER/CONTRACTOR SHALL CONTACT THE ENGINEER FOR REDESIGN.
4. ALL COLUMN FOOTINGS SHALL BE CENTERED UNDER COLUMN CENTER LINES UNLESS NOTED OTHERWISE.
5. ALL UTILITIES WHICH CROSS FOOTINGS MUST PASS ABOVE TURNDOWN SLAB THROUGH THE FOUNDATION WALL. SLEEVE, PATCH, AND PARGE STEP FOOTINGS AS REQUIRED. REINFORCING SHALL BE CONTINUOUS AT ALL FOOTING STEPS.
6. CONCRETE SLABS ON GRADE SHALL BEAR ON A MINIMUM OF 6" COMPACTED #51 STONE. WHERE REQUIRED, SOIL UNDER FOOTINGS SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM METHOD D-698 (STANDARD PROCTOR).

CONCRETE:

1. CONCRETE FOR FOOTINGS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND A MAXIMUM WATER/CEMENT RATIO OF 0.5.
2. CONCRETE FOR SLABS, BEAMS, COLUMNS, AND OTHER ABOVE GROUND CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND A MAXIMUM WATER/CEMENT RATIO OF 0.40* UNLESS NOTED OTHERWISE.
3. ALL CONCRETE SHALL BE MIXED, PLACED AND TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318.
4. ALL CONCRETE SHALL HAVE A SLUMP OF 4" ± 1" UNLESS NOTED OTHERWISE.
5. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL PRIOR TO USE.
6. ALL CONCRETE TO BE POURED IN COLD WEATHER, AS DEFINED IN SECTION 11 OF ACI 306R, COLD WEATHER CONCRETING SHALL FULLY COMPLY WITH ACI 306.1, STANDARD SPECIFICATIONS FOR COLD WEATHER CONCRETING, AND ACI 306R.
7. ALL CONCRETE TO BE POURED IN HOT WEATHER, AS DEFINED IN SECTION 1.2 OF ACI 305R, HOT WEATHER CONCRETING, SHALL FULLY COMPLY WITH ACI 305.1, STANDARD SPECIFICATIONS FOR HOT WEATHER CONCRETING, AND ACI 305R.
8. REINFORCING BARS SHALL BE ASTM A-615, GRADE 60. EPOXY COATED BARS SHALL BE ASTM A-T15 GRADE 60 AS A BID ALTERNATE.
9. ALL CONCRETE REINFORCING SHALL BE DETAILED AND CONSTRUCTED PER ACI 318.
10. CONTRACTOR SHALL SUBMIT REINFORCING SHOP DRAWINGS FOR CONCRETE REINFORCING STEEL FOR APPROVAL.
11. ALL CONCRETE REINFORCING STEEL SHALL HAVE CORNER OR "Z" BARS OF THE SAME DIAMETER AT ALL CORNERS AND CHANGES IN DIRECTION. CORNER AND "Z" BARS SHALL LAP CONTINUOUS BARS A MINIMUM OF 48 TIMES THE NOMINAL BAR DIAMETER ON BOTH ENDS.
12. ALL CONCRETE SLABS ON GRADE SHALL BE REINFORCED WITH WELDED WIRE FABRIC OF THE SIZE INDICATED ON THE PLANS AND SHALL BE PLACED OVER 6 MIL VAPOR BARRIER UNLESS SHOWN OTHERWISE ON DRAWINGS.
13. SAW CUTTING CONTROL JOINTS SHALL BE PERFORMED AS SOON AS THE CONCRETE SLAB ON GRADE IS HARD ENOUGH TO SUPPORT THE CUTTING MACHINE WITHIN FIRST FOUR HOURS OF CURING.
14. SLABS ON GRADE INCLUDING THE EXTERIOR APRON SLAB SHALL BE AIR ENTRAINED CONCRETE AND REINFORCED WITH WELDED WIRE FABRIC OF THE SIZE INDICATED ON THE PLANS PLACED ON CONCRETE BLOCKS. AIR ENTRAINMENT FOR SLABS SHALL BE 6% BY VOLUME ± 1%.
15. ALL CONCRETE EXCEPT FOOTINGS SHALL BE AIR-ENTRAINED 6% BY VOLUME ± 1% UNLESS SHOWN OTHERWISE ON DRAWING.
16. CONCRETE PROTECTION FOR STEEL REINFORCEMENT OF CAST-IN-PLACE CONCRETE SHALL BE AS SPECIFIED BELOW:
- | TYPE OF STRUCTURE | MINIMUM CLEAR COVER (UNLESS OTHERWISE NOTED IN DRAWINGS) |
|---|--|
| SLABS AND STAIR SLABS
BEAMS | 2"
2" |
| COLUMNS AND PIERS | 2" TO VERTICAL BARS
1-5/8" TO TIES |
| FOOTINGS AND OTHER
EARTH FORMED CONCRETE | 3" |
17. SPECIAL INSPECTIONS SHALL BE REQUIRED FOR THE CAST IN PLACE CONCRETE MATERIALS AND INSTALLATION, INCLUDING BUT NOT LIMITED TO REINFORCEMENT, BOLTS, FORMWORK, PLACEMENT, CURING AND STRENGTH AS IDENTIFIED IN THE SCHEDULE OF SPECIAL INSPECTIONS.

MASONRY:

1. MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF ACI 530 (LATEST EDITION), "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
2. CONCRETE MASONRY UNITS (CMU) SHALL BE 2 CELL UNITS CONFORMING TO ASTM C-40, TYPE 1.
3. MORTAR SHALL CONFORM TO ASTM C-270, TYPE S.
4. GROUT SHALL CONFORM TO ASTM C-476 WITH A MINIMUM STRENGTH OF 3000 PSI.
5. ALL CONCRETE MASONRY CONSTRUCTION SHALL BE CONSTRUCTED TO HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH (F'm) OF 1300 PSI.
6. ALL CMU REINFORCING SHALL BE DETAILED AND CONSTRUCTED PER ACI 318.
7. CONTRACTOR SHALL SUBMIT REINFORCING SHOP DRAWINGS FOR CMU REINFORCING STEEL FOR APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
8. FIRE BRICK MASONRY UNITS SHALL BE IN ACCORDANCE WITH ASTM C-125 WITH A MINIMUM DENSITY OF 50 POUNDS PER CUBIC FOOT.
9. WHERE MASONRY INTERSECTS VERTICAL SURFACES OF CONCRETE COLUMNS AND BOTTOM SURFACES OF CONCRETE SLABS AND BEAMS, ANCHOR MASONRY TO CONCRETE WITH GALVANIZED DOVETAIL ANCHORS AT 16" ON CENTER UNLESS OTHERWISE NOTED. MASONRY SHALL NOT BE ANCHORED TO CONCRETE WHERE OPEN JOINTS ARE SHOWN NOR WHERE THERMAL LINING SEPARATES CONCRETE FROM MASONRY. DOVETAIL ANCHORS AND ANCHOR SLOTS SHALL BE NO. 106 CORRUGATED DOVETAIL ANCHOR AND NO. 100 STANDARD DOVETAIL SLOT BY HECKMAN BUILDING PRODUCTS, INC., OR AN APPROVED EQUIVALENT.
10. SPECIAL INSPECTIONS SHALL BE REQUIRED FOR THE MASONRY MATERIALS, AND INSTALLATION, INCLUDING BUT NOT LIMITED TO STRENGTH, MORTAR AND GROUT MIX, INSTALLATION, REINFORCING, PROTECTION, AND ANCHORAGE AS IDENTIFIED IN THE SCHEDULE OF SPECIAL INSPECTIONS.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL FRAMING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AISC "MANUAL OF STEEL CONSTRUCTION." ALL STRUCTURAL STEEL BEAM, COLUMN AND CHANNEL SHAPES SHALL BE ASTM A-992. ALL STEEL ANGLES AND PLATES SHALL BE ASTM A-36. ALL STRUCTURAL STEEL TUBES SHALL BE ASTM A500 GRADE B.
2. CONTRACTOR TO SUBMIT STRUCTURAL STEEL SHOP DRAWINGS FOR APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
3. ALL STRUCTURAL STEEL SHOP WORK TO BE WELDED WITH E70XXX ELECTRODES. FIELD WORK CONNECTIONS TO BE BOLTED WITH 3/4" HIGH STRENGTH A325X BOLTS OR WELDED WITH E70XXX ELECTRODES. PRE-DRILL HOLES IN STEEL MEMBERS AS REQUIRED FOR FASTENING, BLOCKING, ETC.
4. ALL COLUMNS SHALL BE FURNISHED WITH GAP PLATES AND BASE PLATES OF SIZE CALLED FOR AND SHALL BE SHOP WELDED. BASE PLATES SHALL BEAR ON LEVELING NUTS SET IN 1" THICKNESS OF APPROVED SHRINK RESISTANT GROUT EXCEPT WHEN SHOWN OTHERWISE, AND ANCHORED WITH FOUR (4) 3/4" DIAMETER THREADED RODS WITH DOUBLE NUTS & 1/4" PLATE. SHIM UNDER BASE PLATES AS REQUIRED.
5. ALL STRUCTURAL STEEL FRAMING TO HAVE ONE SHOP COAT OF RUST INHIBITIVE PAINT AFTER FABRICATION AND ONE FINISH COAT OF APPROVED PAINT, UNLESS NOTED OTHERWISE. ALL EXPOSED STEEL TO HAVE TWO (2) COATS OF APPROVED COLOR SELECTED BY OWNER.
6. SPECIAL INSPECTIONS SHALL BE REQUIRED FOR THE STRUCTURAL STEEL MATERIALS, QUALITY CONTROL PROGRAM, BOLTS, NUTS AND WASHERS, WELDING, AND STRUCTURAL DETAILS AS IDENTIFIED IN THE SCHEDULE OF SPECIAL INSPECTIONS.

STEEL GRATING AND TREADS:

1. STEEL GRATING SHALL BE 2" DEEP, 14 GAUGE, GALVANIZED GRIP STRUT 5-DIAMOND SAFETY GRATING OR EQUIVALENT. INSTALL GRATING IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS TO CREATE A TWO-SPAN CONDITION BY WELDING WELD SIDES OF ADJACENT PANELS TOGETHER PER MANUFACTURER'S RECOMMENDATIONS.
2. STEEL STAIR TREADS SHALL BE 2" DEEP, 14 GAUGE GALVANIZED GRIP STRUT 5-DIAMOND STAIR TREADS OR EQUIVALENT. INSTALL TREADS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS USING STANDARD ZINC COATED BOLTS.

WOOD: (FOR CHOP OUT OPENING)

1. WOOD FRAMING IS BASED ON DESIGN VALUES NOTED IN THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2005 EDITION
2. RAFTERS FOR CHOP OUT OPENING SHALL BE CONSTRUCTED WITH No. 2 SOUTHERN YELLOW PINE (SYP) WITH MINIMUM F_b = 1050 PSI AND E = 1600,000 PSI ALLOWABLE STRESSES.
3. ALL PLYWOOD SHALL BE MANUFACTURED AND GRADED IN ACCORDANCE WITH U.S. DEPARTMENT OF COMMERCE (DOC) PRODUCT STANDARD PS1-45 FOR PLYWOOD CONSTRUCTION FROM GROUP 1 SPECIES. EACH PLYWOOD SHEET SHALL BEAR THE "APA" GRADE TRADEMARK.
4. PLYWOOD ROOF SHEATHING SHALL CONFORM TO APA C-D RATED EXTERIOR 3/4" MINIMUM THICKNESS PLYWOOD SHEATHING UNLESS NOTED OTHERWISE.
5. THE FACE GRAIN OF THE PLYWOOD SHALL BE LAID AT RIGHT ANGLES TO THE RAFTERS.
6. FASTENERS SHALL BE PLACED 5/8" MINIMUM FROM THE EDGE OF THE PLYWOOD SHEETS.
7. ALL WOOD USED FOR CHOP OUT FRAMING SHALL NOT BE PRESERVATIVE OR FIRE RETARDANT TREATED.

ANCHORS (GENERAL):

1. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
2. HOLES FOR ANCHORS TO BE INSTALLED IN MASONRY SHALL BE DRILLED WITH A ROTARY DRILL ONLY, NOT A ROTARY-HAMMER DRILL.

EXPANSION ANCHORS:

3. EXPANSION ANCHORS SHALL BE WEDGE TYPE WITH A SINGLE PIECE THREE SECTION WEDGE. THE ANCHORS SHALL MEET THE DESCRIPTION IN FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS 1 FOR CONCRETE EXPANSION ANCHORS. ANCHORS SHALL BE HILTI KNIK BOLT II, MANUFACTURED BY HILTI FASTENING SYSTEMS, OR EQUIVALENT.
4. ALL EXPANSION ANCHORS SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633, SERVICE CONDITION SC 1, TYPE III UNLESS INDICATED IN THE DRAWINGS AS STAINLESS STEEL.
5. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM REQUIREMENTS SHALL BE MET FOR EXPANSION ANCHORS:

EXPANSION ANCHOR DIAMETER	EMBEDMENT DEPTH	ALLOWABLE LOADS IN CONCRETE	
		TENSION (POUNDS)	SHEAR (POUNDS)
3/8"	2 1/2"	1,570	1,470
1/2"	3 1/2"	2,400	2,450

SLEEVE ANCHORS:

6. SLEEVE ANCHORS SHALL MEET THE FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 3, CLASS 3 FOR EXPANSION SHIELD ANCHORS. ANCHORS SHALL BE HLC SLEEVE ANCHORS, MANUFACTURED BY HILTI FASTENING SYSTEMS, OR EQUIVALENT.
7. ALL SLEEVE ANCHORS SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633, SERVICE CONDITION SC 1, TYPE III UNLESS INDICATED IN THE DRAWINGS AS STAINLESS STEEL.
8. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM REQUIREMENTS SHALL BE MET FOR SLEEVE ANCHORS:

SLEEVE ANCHOR DIAMETER	EMBEDMENT DEPTH	ALLOWABLE LOADS IN HOLLOW CMU	
		TENSION (POUNDS)	SHEAR (POUNDS)
3/8"	1 1/2"	438	800

DROP IN ANCHORS:

9. ANCHORS SHALL BE HOLLOW-SET DROP IN ANCHORS MANUFACTURED BY POWERS FASTENERS OR EQUIVALENT.
10. ALL DROP IN ANCHORS SHALL BE STAINLESS STEEL.
11. UNLESS NOTED OTHERWISE, THE FOLLOWING MINIMUM REQUIREMENTS SHALL BE MET FOR DROP IN ANCHORS:

DROP IN ANCHOR DIAMETER	EMBEDMENT DEPTH	ALLOWABLE LOADS IN HOLLOW CMU	
		TENSION (POUNDS)	SHEAR (POUNDS)
1/2"	1 1/4"	715	730

THERMAL LINING:

1. THE THERMAL LINING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER.
2. THERMAL LINING SYSTEM SHALL BE DESIGNED TO PROVIDE THE REQUIRED LEVEL OF PROTECTION AS INDICATED IN THE SPECIFICATIONS.

TEMPERATURE MONITORING SYSTEM:

1. THE TEMPERATURE MONITORING SYSTEM SHALL CONSIST OF A CENTRAL RECORDER LOCATED IN THE MONITORING EQUIPMENT ROOM AND THERMOCOUPLES AS SHOWN ON ELECTRICAL DRAWINGS, SEE SPECIFICATION FOR REQUIREMENTS.

ELECTRICAL:

1. PROVIDE ALL NECESSARY LABOR, EQUIPMENT, ETC. FOR ALL WORK INDICATED AND REQUIRED FOR A COMPLETE INSTALLATION TO COMPLY WITH THE 2009 EDITION OF THE INTERNATIONAL ELECTRICAL CONSERVATION CODE, (2009 IECG).
2. ELECTRICAL SUB CONTRACTOR TO PROVIDE SYSTEM DESIGN AND PLAN LAYOUT FOR REVIEW AND APPROVAL.
3. THE ELECTRICAL CONTRACTOR SHALL KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL AND RUBBISH DAILY AND AT THE COMPLETION OF WORK, CONTRACTOR SHALL REMOVE FROM THE PREMISES ALL RUBBISH, IMPLEMENTS, AND SURPLUS MATERIALS AND LEAVE THE BUILDING "BROOM CLEAN".
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY STATING THAT ALL MATERIALS AND WORKMANSHIP ARE FREE FROM DEFECTS FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE.
5. MATERIALS:
A. WIRE AND CABLE SHALL BE COPPER WITH THIN/THIN INSULATION AND BE SIZED AS PER 2008 NEC.
B. ALL WIRING SHALL BE CONCEALED WHERE POSSIBLE. WHERE APPROVED BY THE DESIGNER, EXPOSED WIRING SHALL BE RUN PARALLEL AND PERPENDICULAR TO THE BUILDING CONSTRUCTION.
C. DISCONNECT SWITCHES SHALL BE SQUARE-D GENERAL DUTY FUSIBLE WITH CLASS "R" FUSE CLIPS OR EQUAL.
D. FUSES SHALL BE TIME-DELAY DUAL ELEMENT TYPE AND SHALL BE SIZED AS REQUIRED.
E. LIGHTING FIXTURE AND OTHER EQUIPMENT SPECIFIED DENOTES STYLE AND QUANTITY.
F. ALL SWITCHES AND RECEPTACLES SHALL BE SPECIFICATION GRADE AND COLOR AS CHOSEN BY OWNER.
6. THE ELECTRICAL CONTRACTOR MUST INSPECT JOB SITE PRIOR TO BIDDING. JOB AND WILL INCLUDE COMPLETE RESPONSIBILITY FOR ALL LABOR AND MATERIALS AS SPECIFIED ON PLANS.
7. ELECTRICAL CONTRACTOR SHALL VERIFY THE AIC BEFORE PURCHASE OF SERVICE ENTRANCE EQUIPMENT.
8. ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT CAPACITY BEFORE ROUGH-IN.
9. ALL WIRING SHALL BE IN CONDUIT AND BE 12 AWG UNLESS OTHERWISE SPECIFIED. CONDUIT SHALL BE EMT OR RVC.
10. CONDUIT UNDER SLAB SHALL BE SCHEDULE 40 PVC AND SHALL BE BELOW THE FROST LINE.

PRIME PROFESSIONAL FIRM LOGO

Project Title

COMMONWEALTH OF VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

SUB-CONSULTANT'S LOGO



Department of Fire Programs

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Sheet Title

GENERAL NOTES

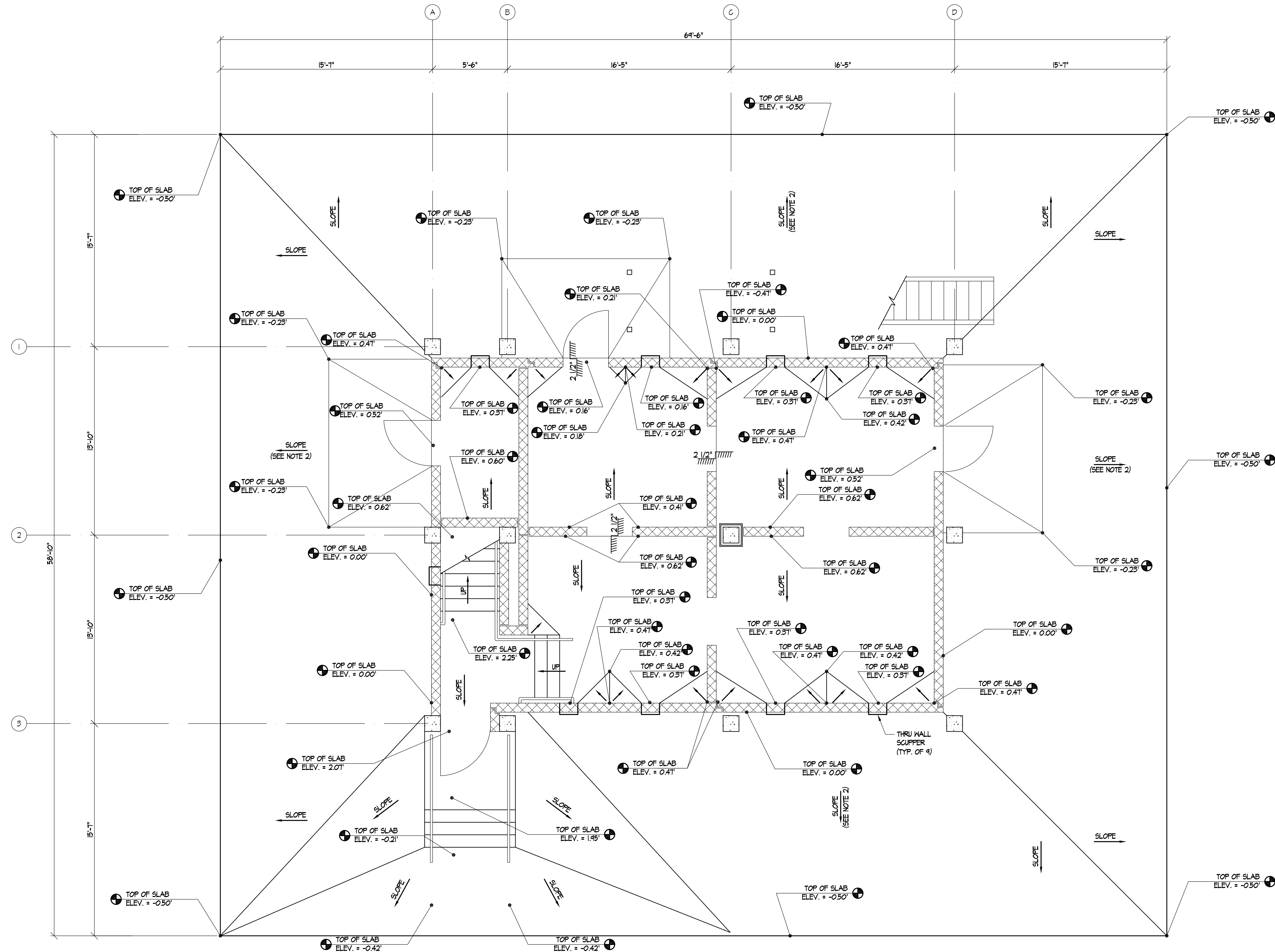
CITY/COUNTY	VIRGINIA
Drawn By: SJS	Approved By: MAM
Checked By: SMF	Date: 04/11/13

PROFESSIONAL SEAL

Sheet No.

A0.2

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SLAB ELEVATION PLAN

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

- NOTES:
1. SLAB TURNDOINGS AND JOINTS ARE NOT SHOWN FOR CLARITY, SEE SHEET S.I.O FOR ADDITIONAL INFORMATION.
2. PROVIDE MINIMUM SLOPE TO DRAIN OF 1/4" PER FT.

PRIME PROFESSIONAL
FIRM LOGO

Project Title

COMMONWEALTH OF
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BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

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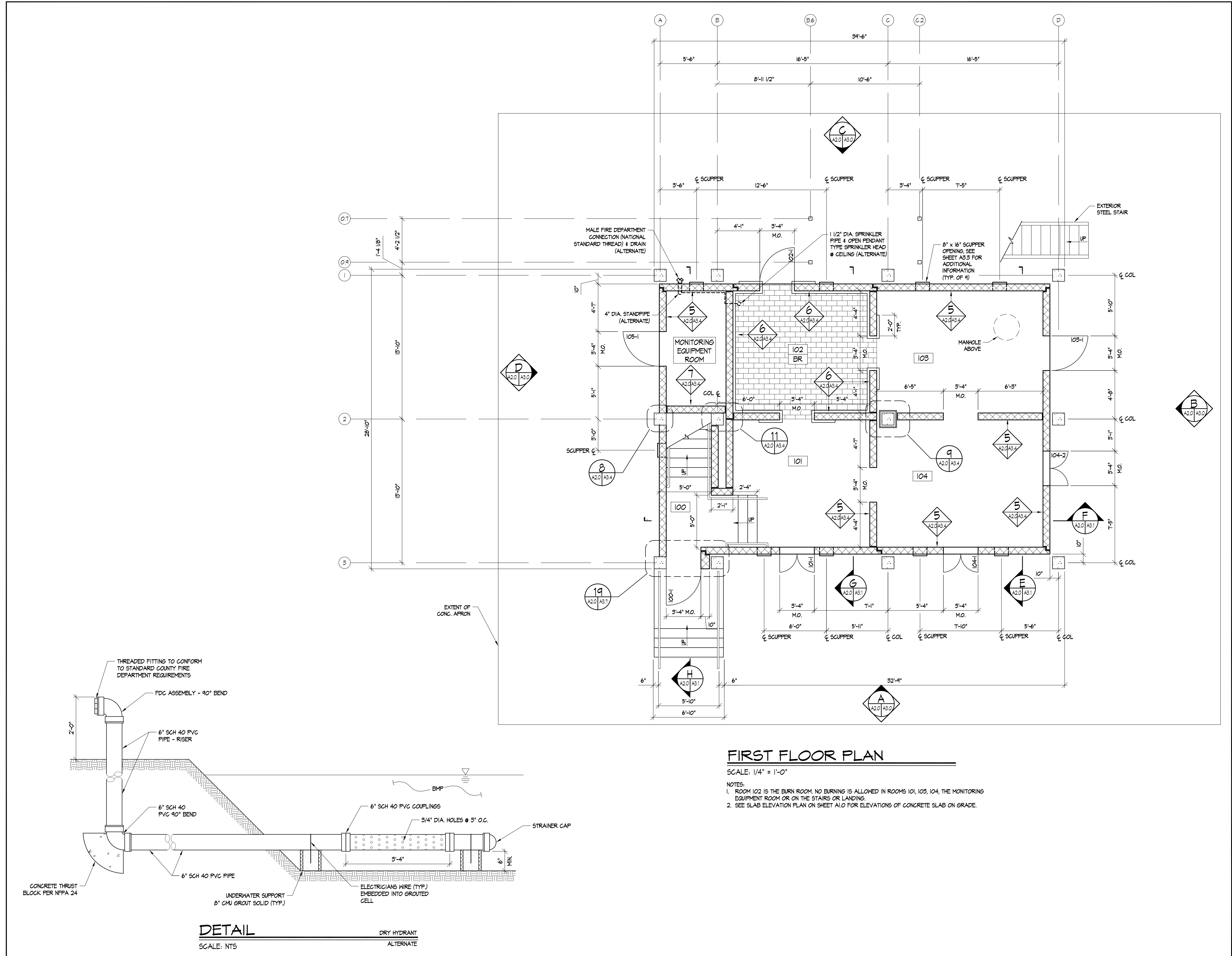
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SLAB ELEVATION PLAN

CITY/COUNTY VIRGINIA
Drawn By: SJS Approved By: MAM
Checked By: SMF Date: 04/11/13

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Sheet No.

A1.0



PRIME PROFESSIONAL
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Project Title
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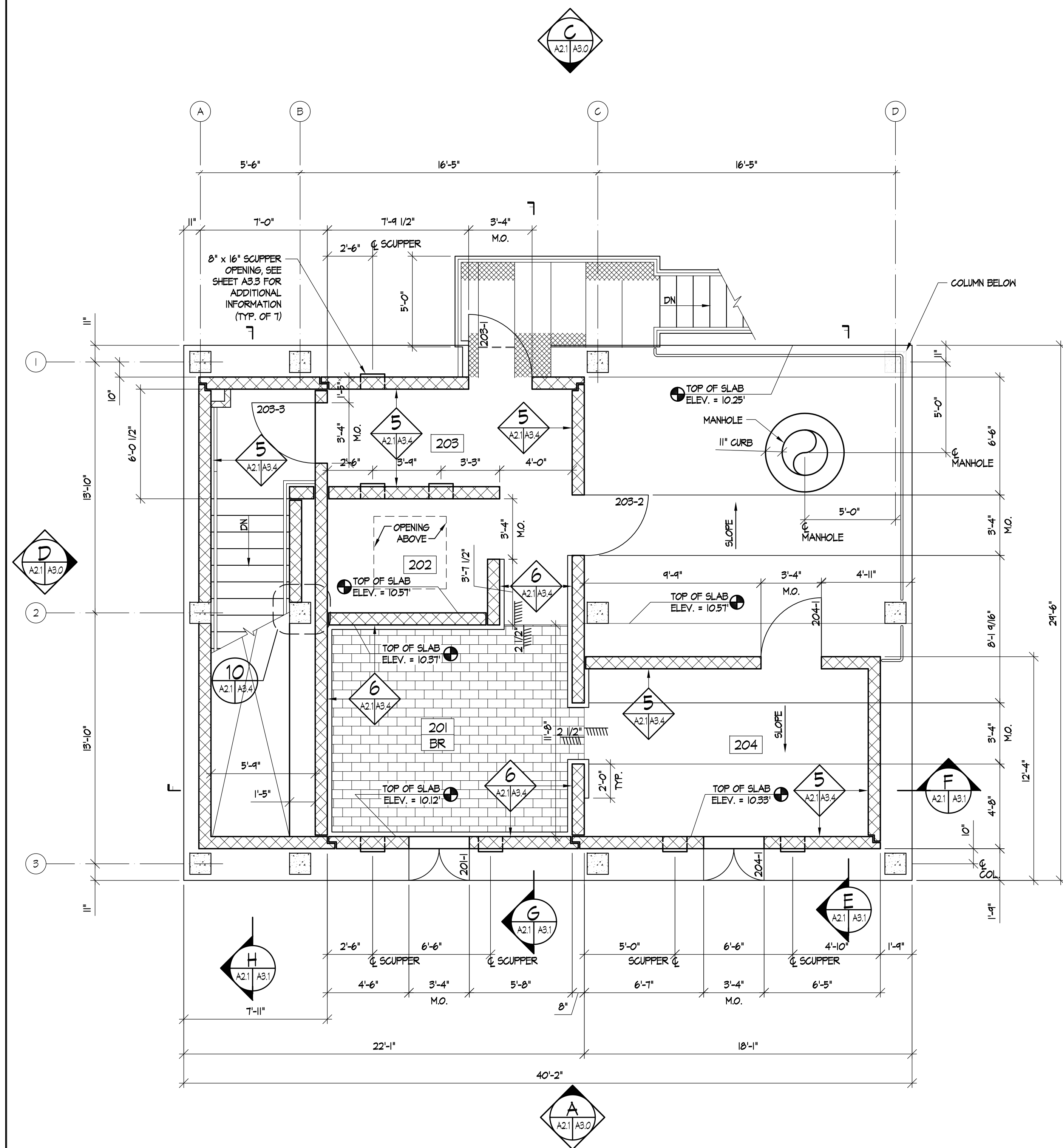
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Sheet Title FIRST FLOOR PLAN	
CITY/COUNTY Drawn By: SJS	VIRGINIA Approved By: MAM
Checked By: SMF	Date: 04/11/13

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Sheet No.

A2.0

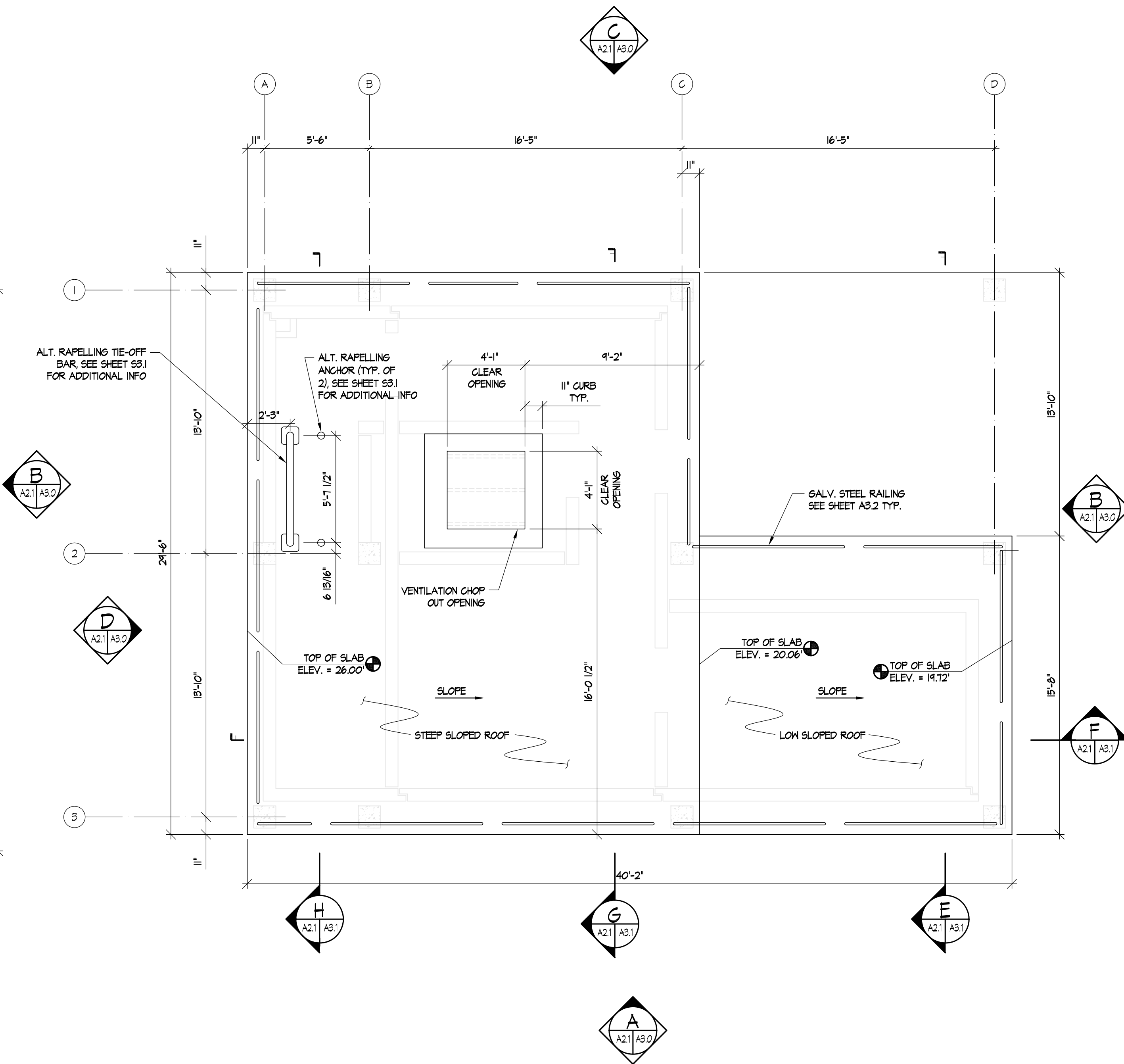


SECOND FLOOR PLAN

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

NOTES:

1. ROOM 201 IS THE BURN ROOM. NO BURNING IS ALLOWED IN ROOMS 202, 203, 204, ON THE STAIRS OR LANDING.
2. REFER TO SHEET A3.0 FOR INDUSTRIAL POST AND GUARDRAIL ELEVATION LOCATIONS.



ROOF PLAN

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

PRIME PROFESSIONAL
FIRM LOGO

Project Title
**COMMONWEALTH OF VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL**

SUB-CONSULTANT'S
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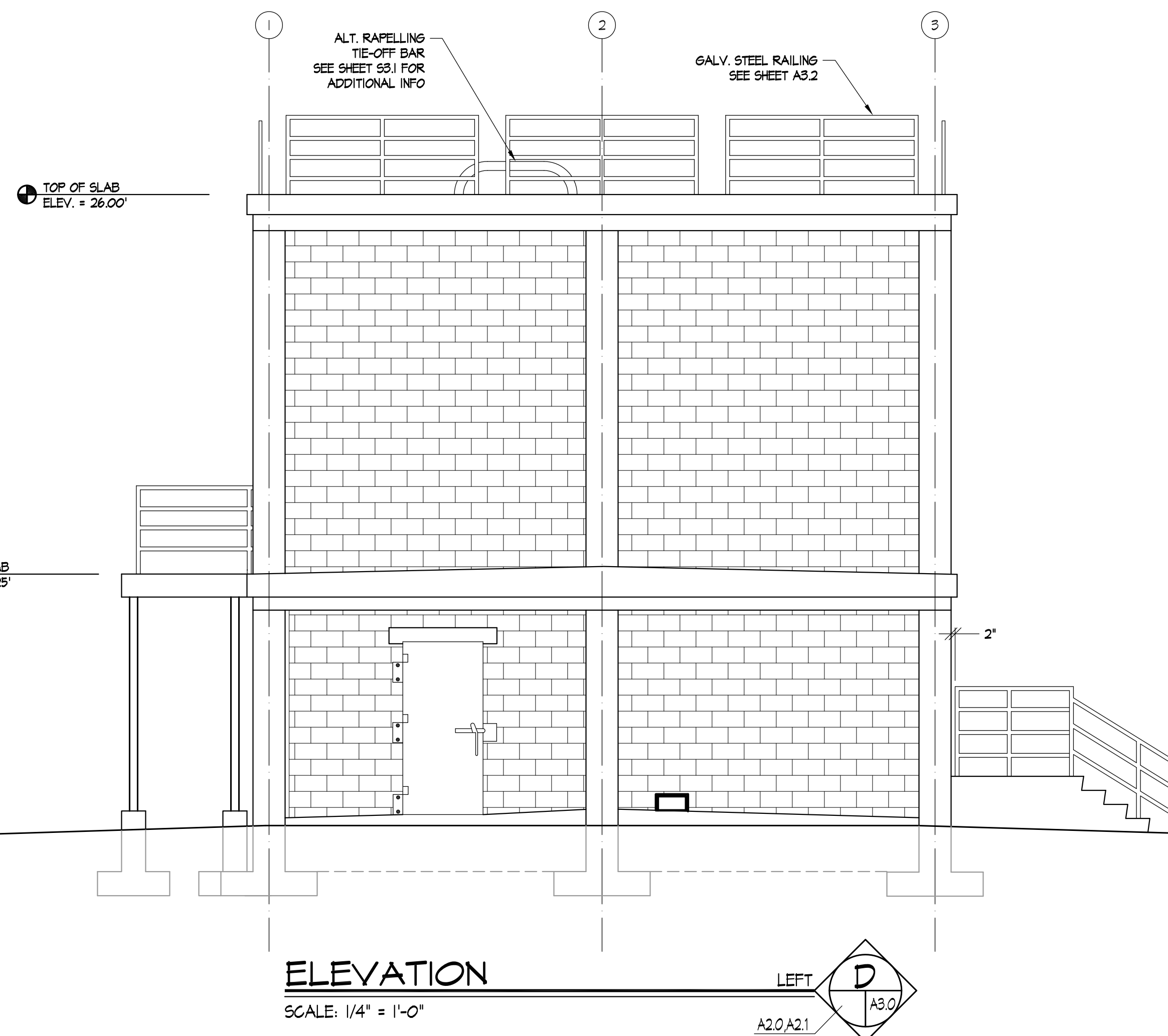
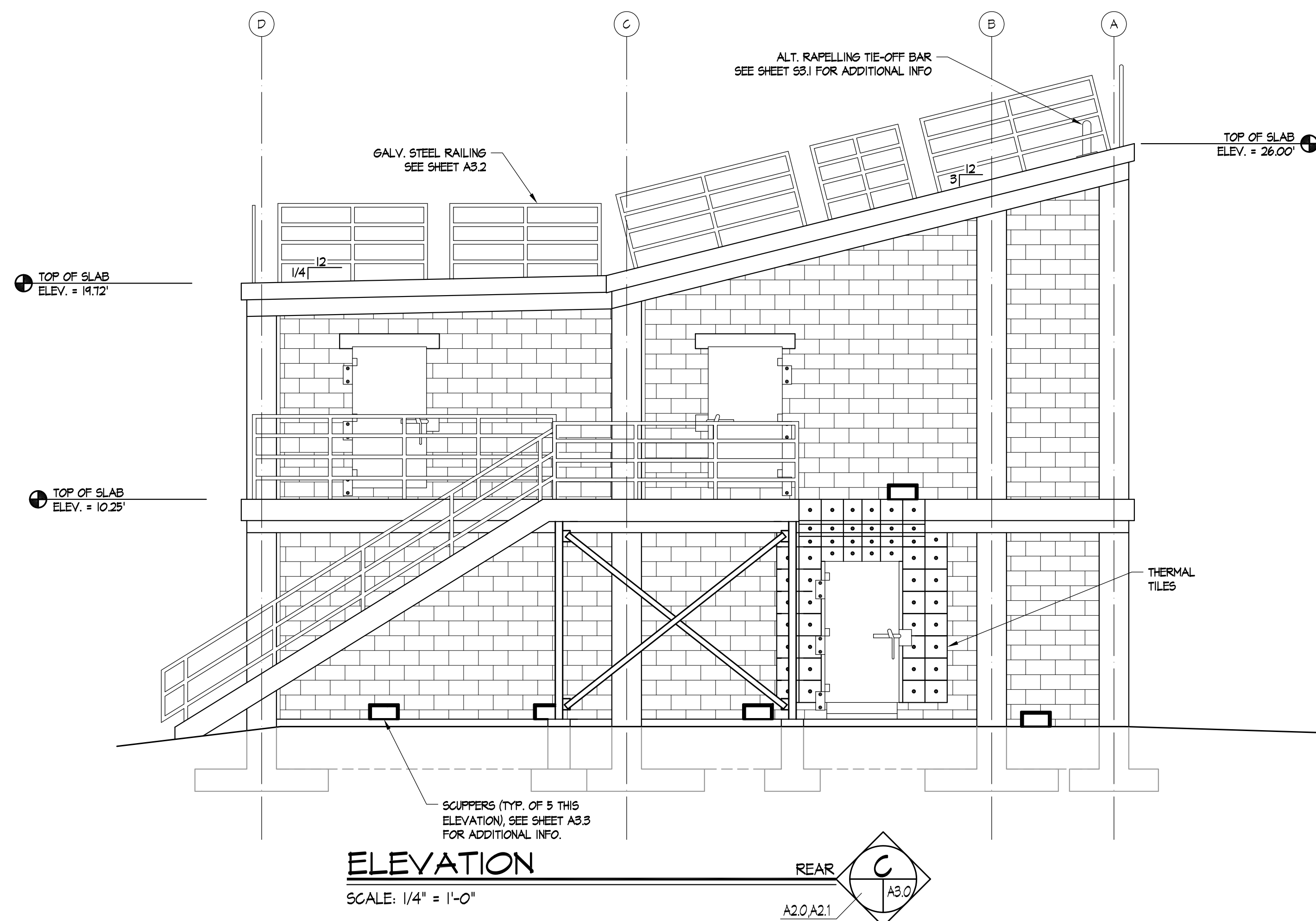
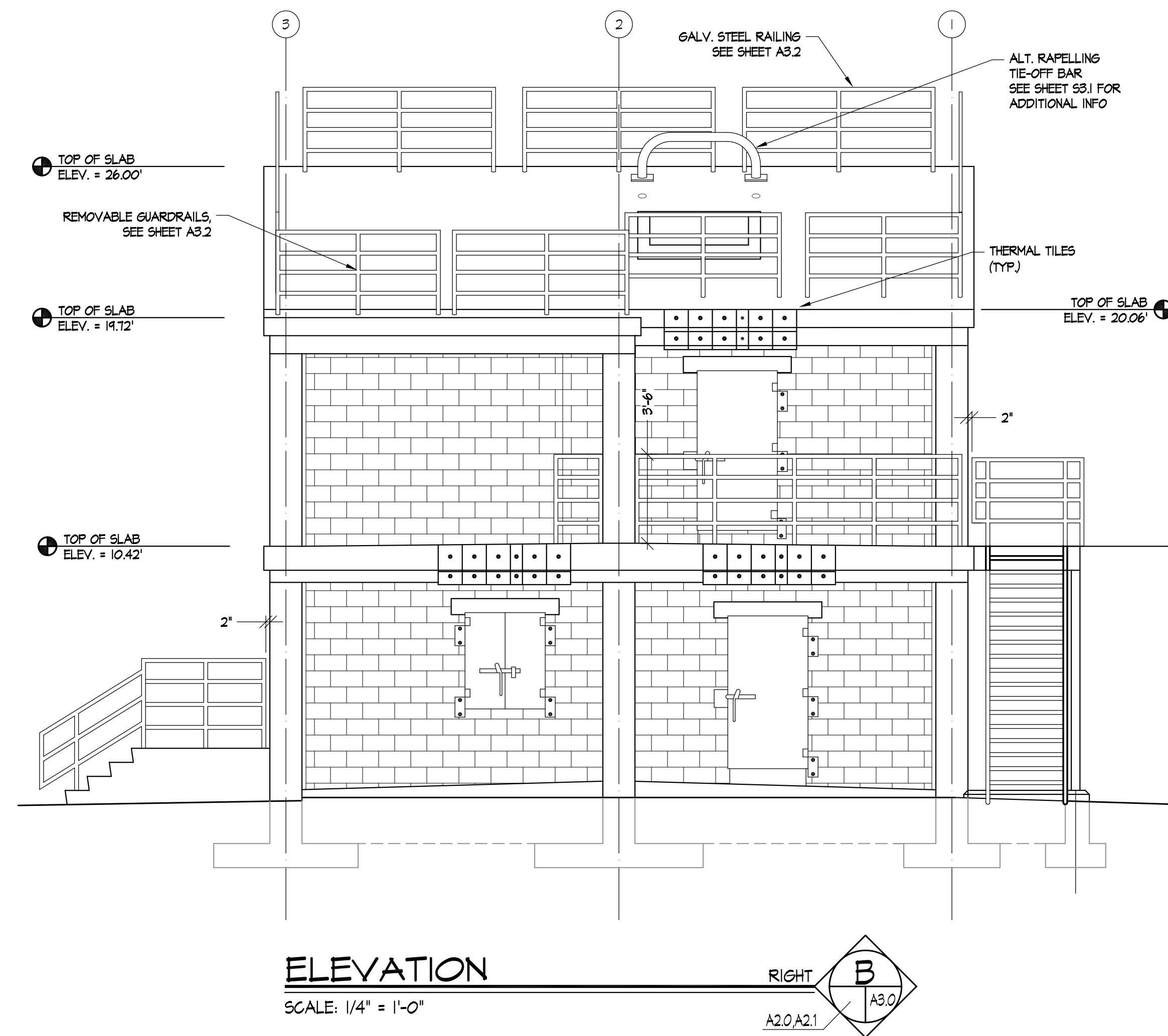
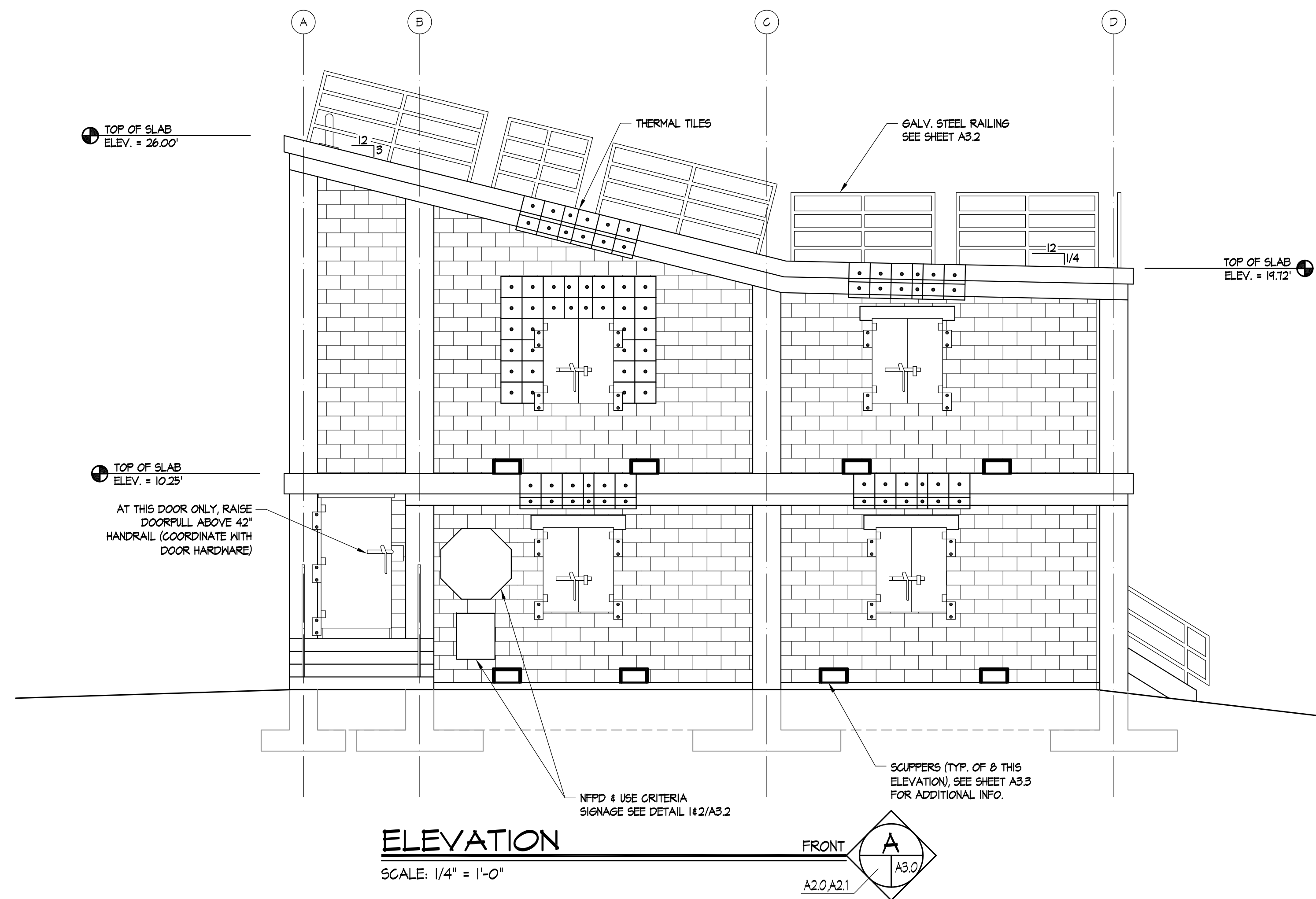
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Sheet Title
**SECOND FLOOR AND
ROOF PLANS**
CITY/COUNTY VIRGINIA
Drawn By: SJS Approved By: MAM
Checked By: SMF Date: 04/11/13

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PRIME PROFESSIONAL
FIRM LOGO

Project Title
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BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL**

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Sheet Title
**BUILDING
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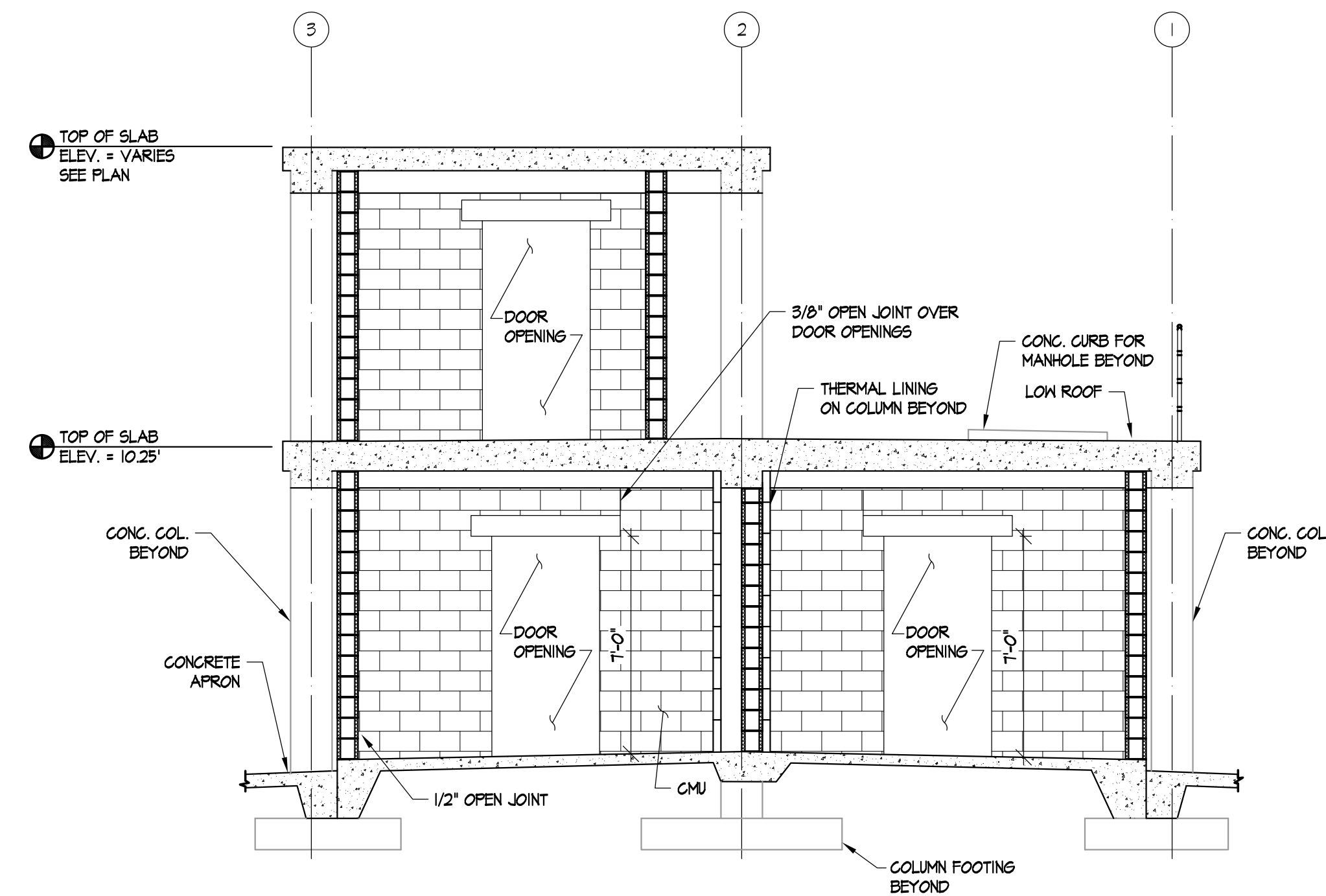
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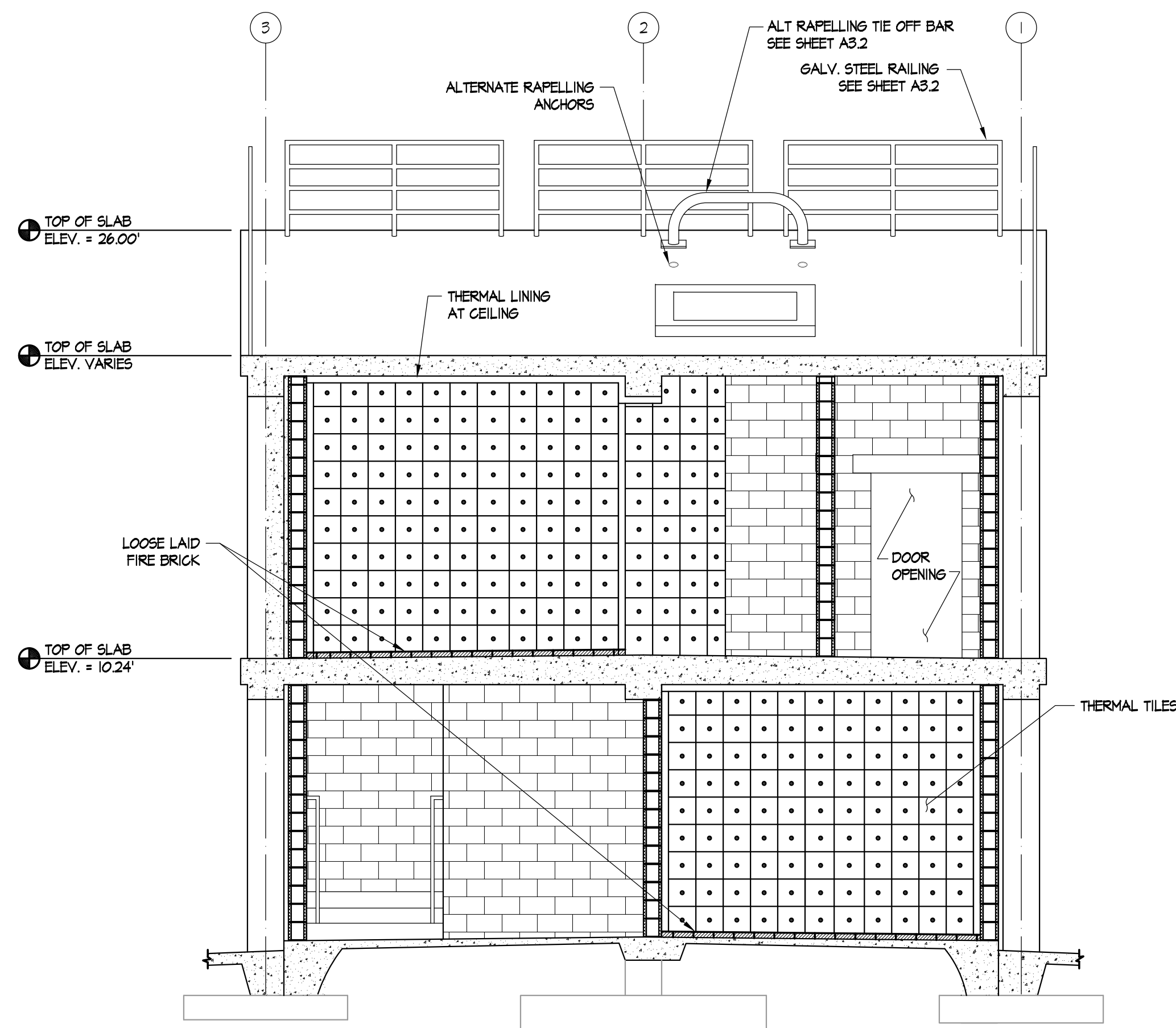
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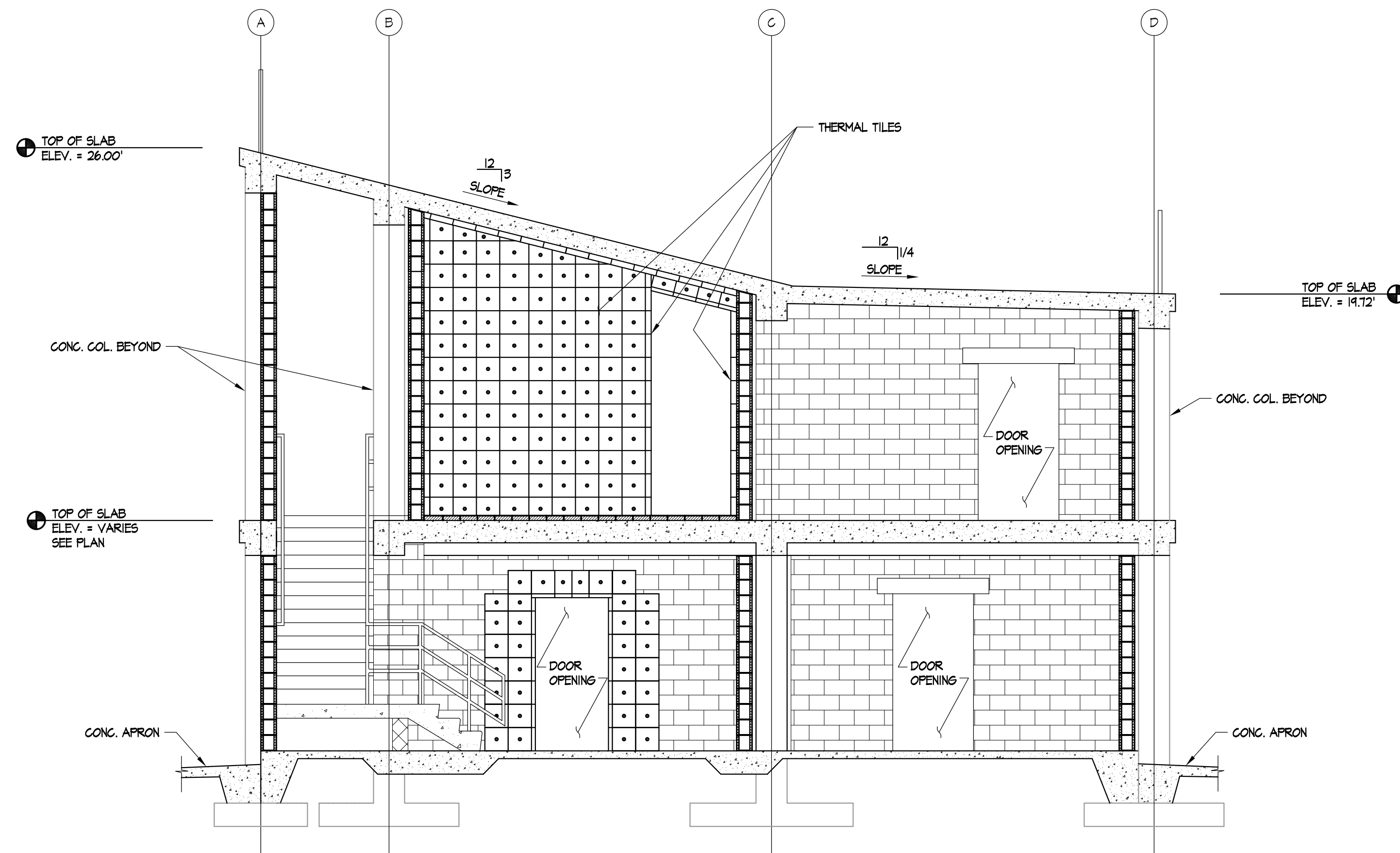
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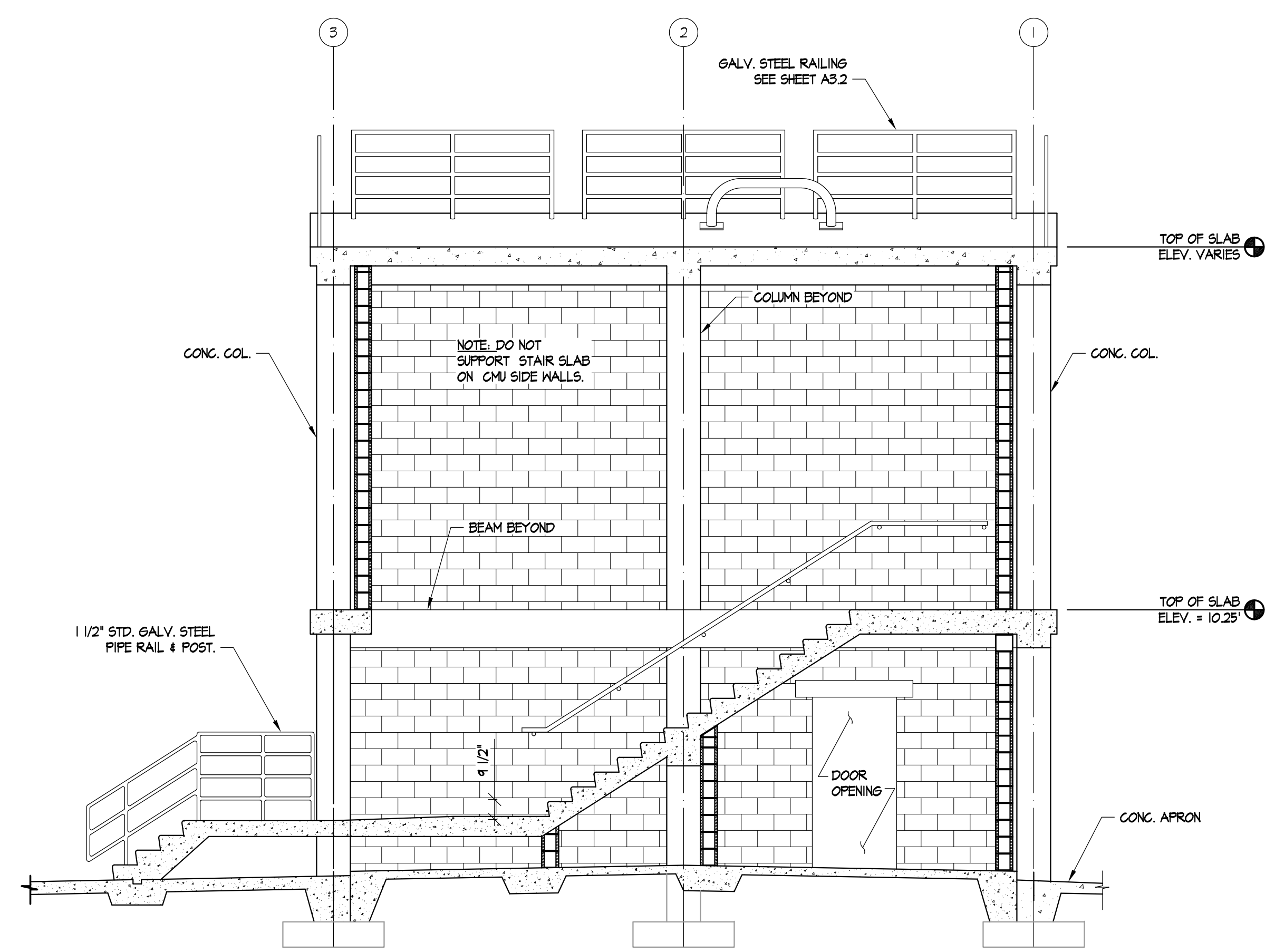
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A2.0/A2.1 A3.1



SECTION
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A2.0/A2.1 A3.1



SECTION
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F
A2.0/A2.1 A3.1



SECTION
SCALE: 1/4" = 1'-0"
H
A2.0/A2.1 A3.1

PRIME PROFESSIONAL
FIRM LOGO

Project Title
**COMMONWEALTH OF
VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL**

SUB-CONSULTANT'S
LOGO



**Department
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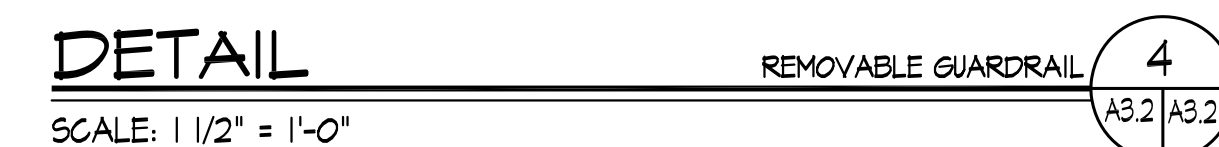
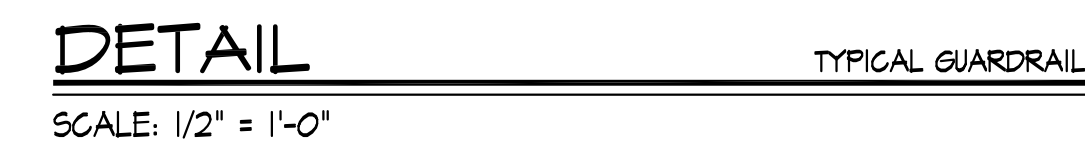
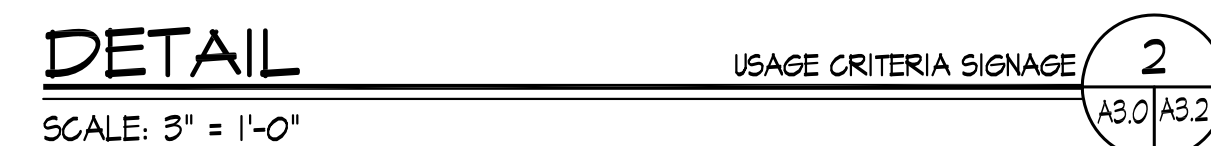
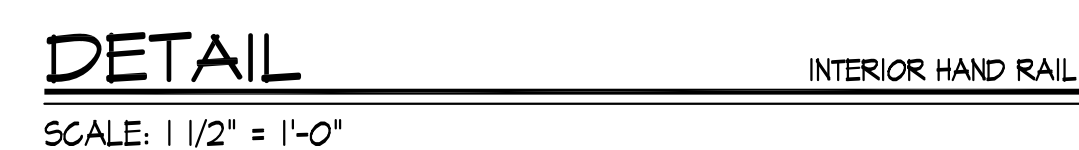
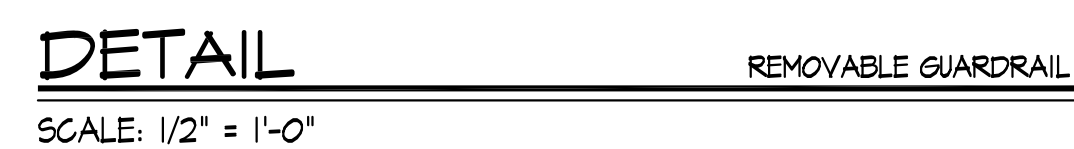
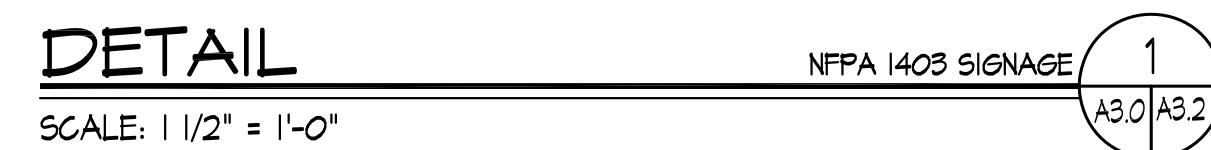
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Sheet Title
**BUILDING
SECTIONS**
CITY/COUNTY VIRGINIA
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PRIME PROFESSIONAL
FIRM LOGO

Project Title

COMMONWEALTH OF
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BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

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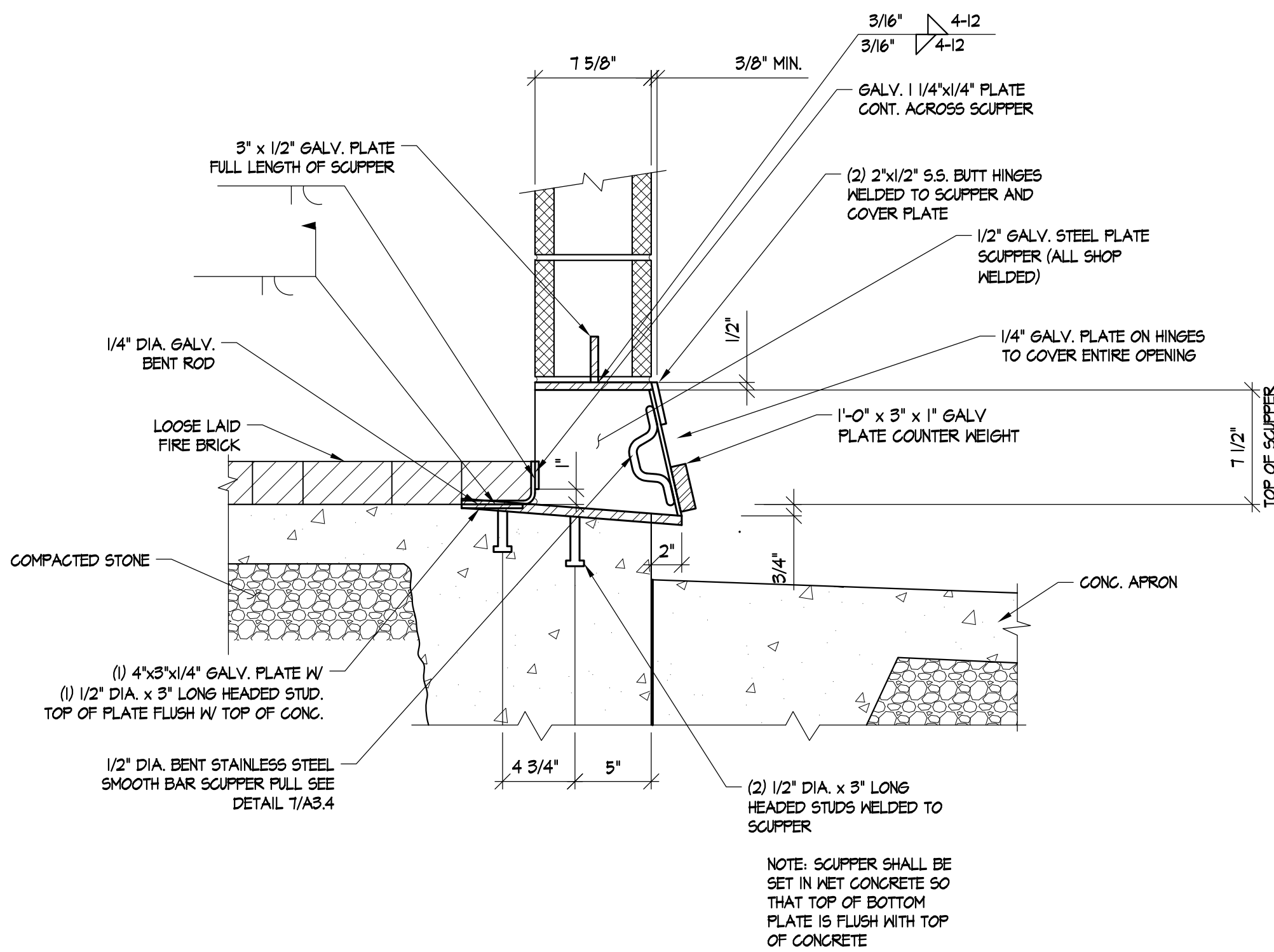
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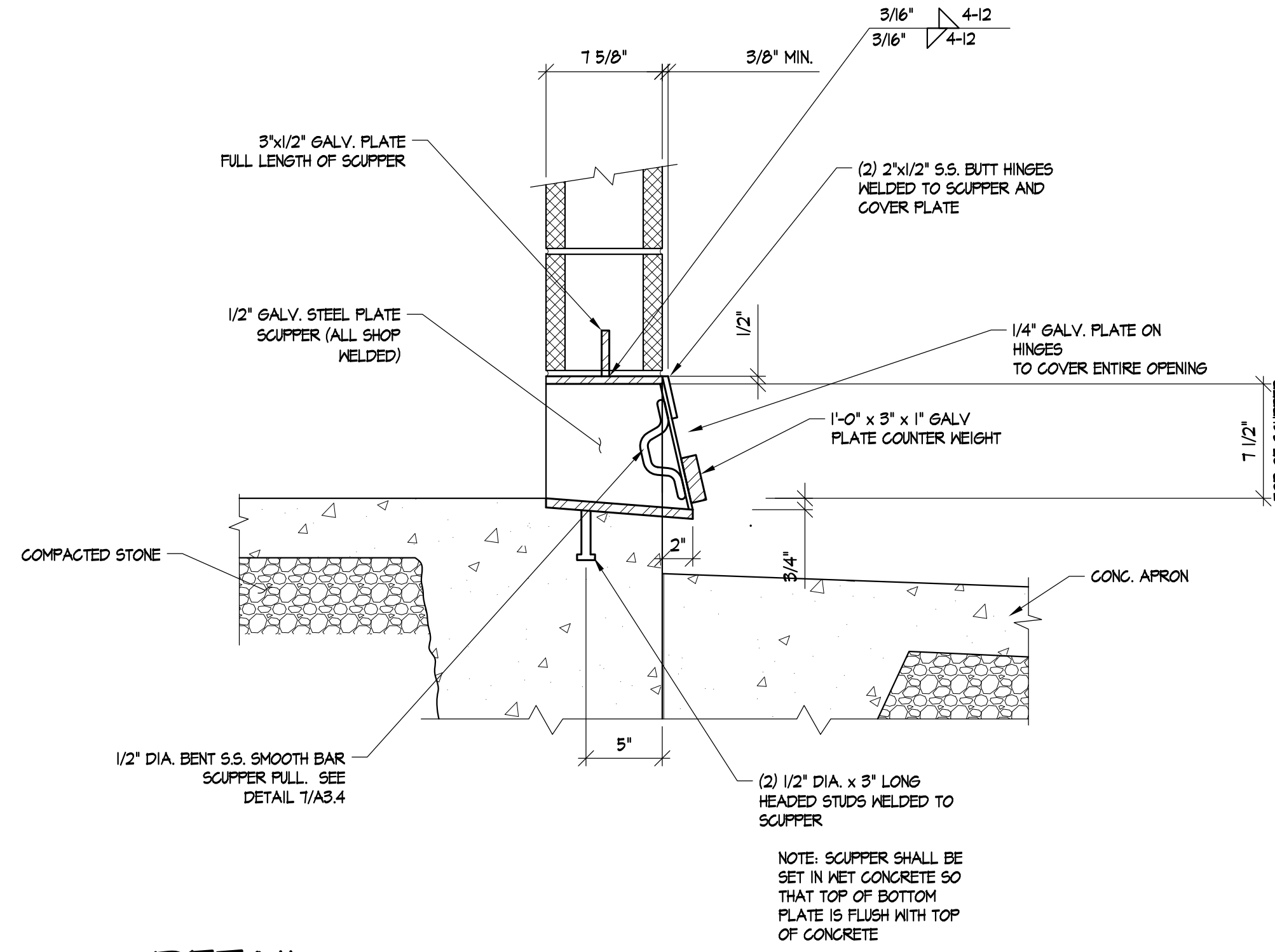
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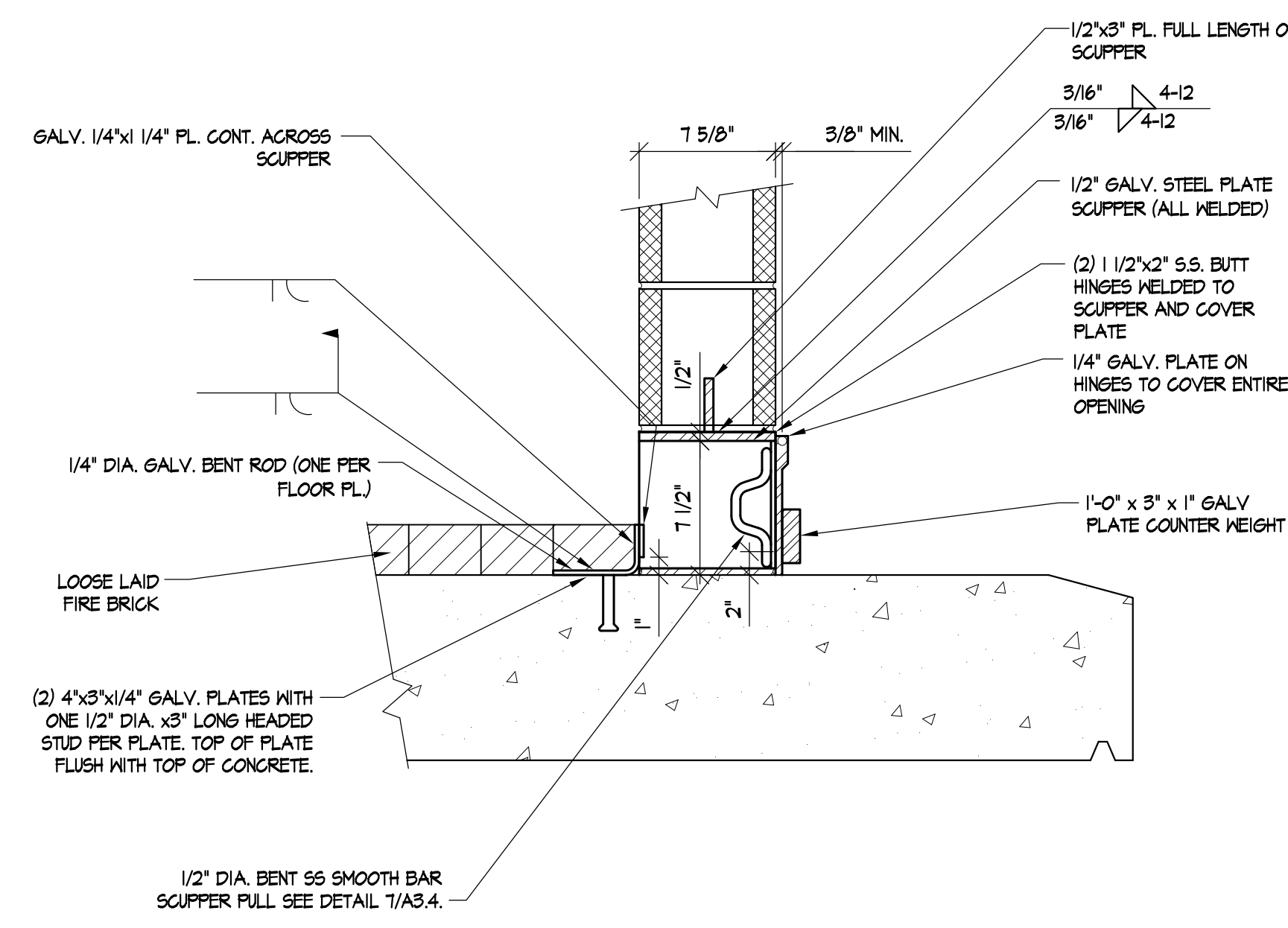
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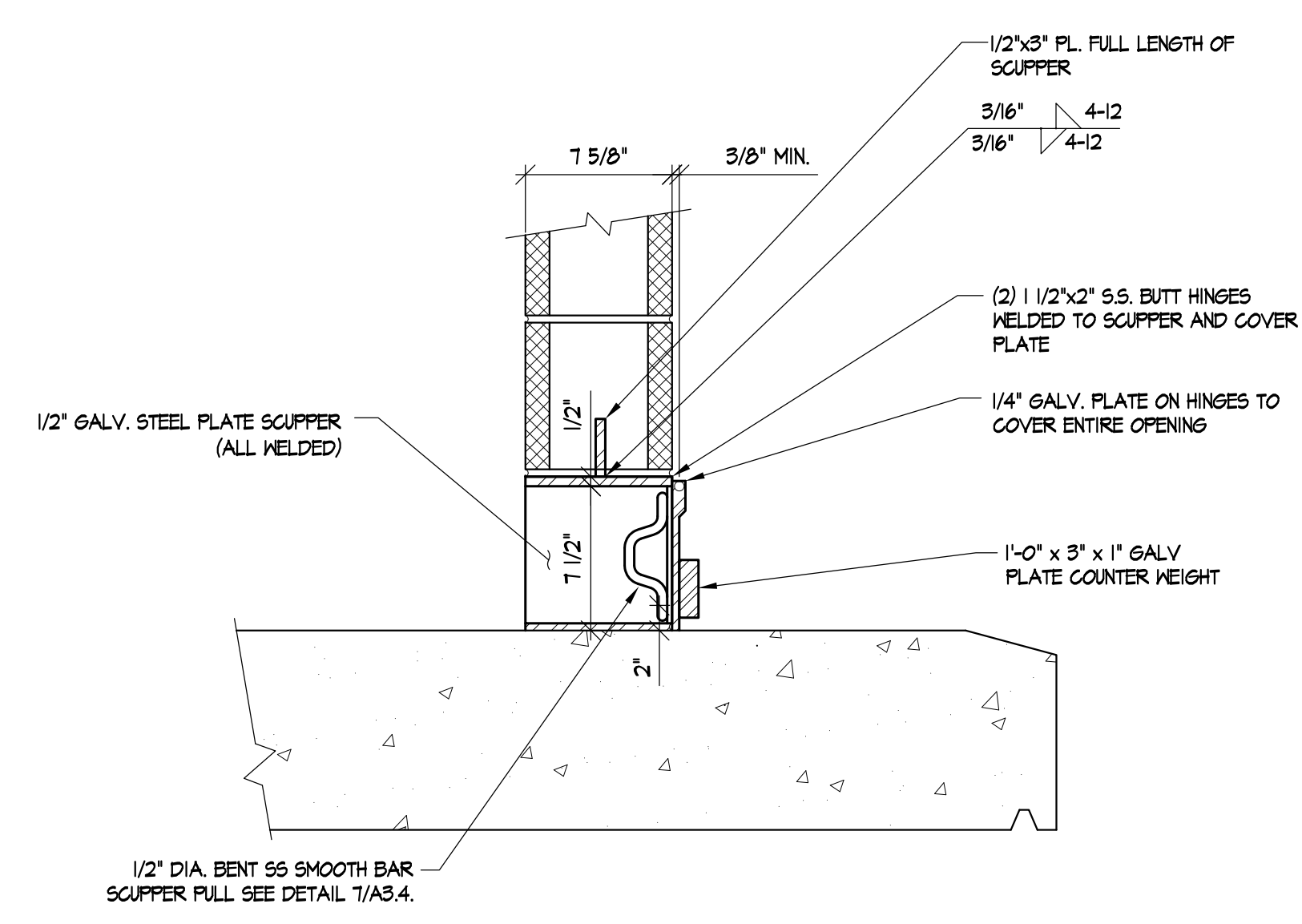
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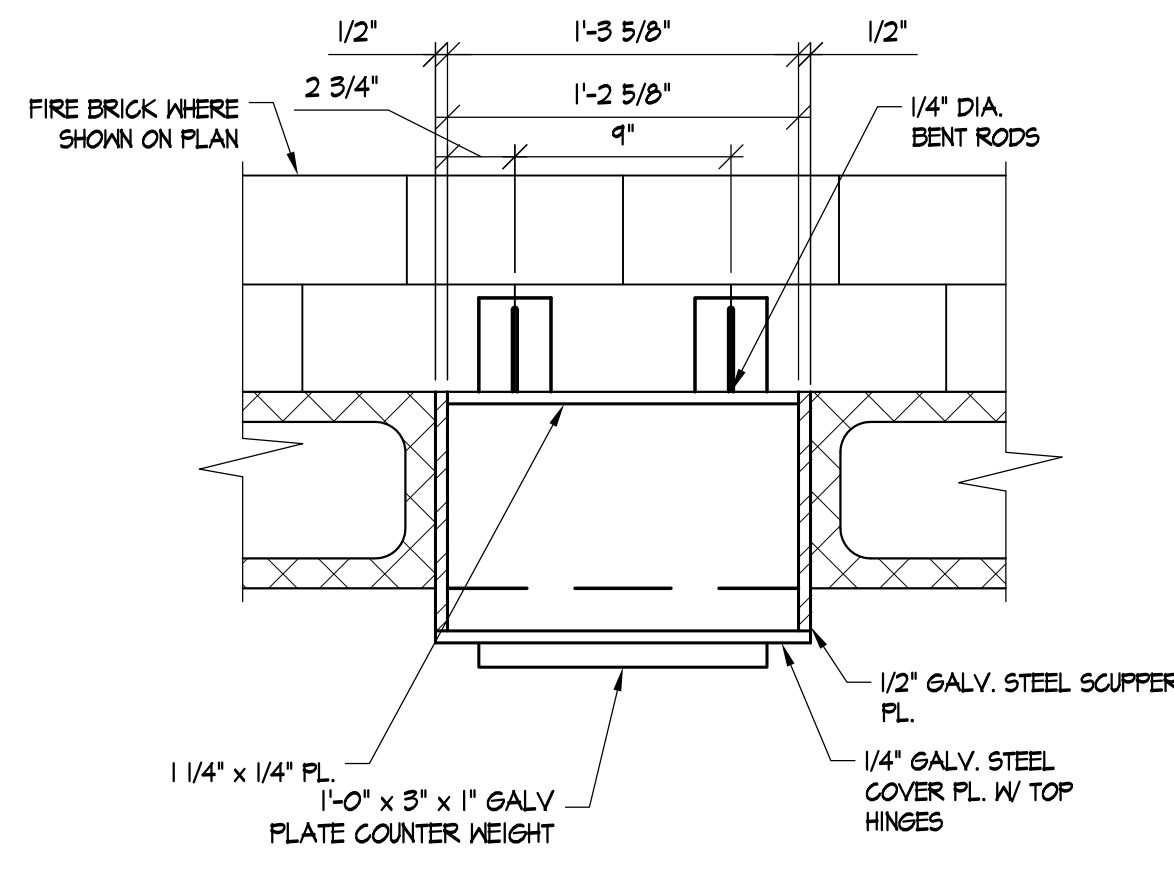
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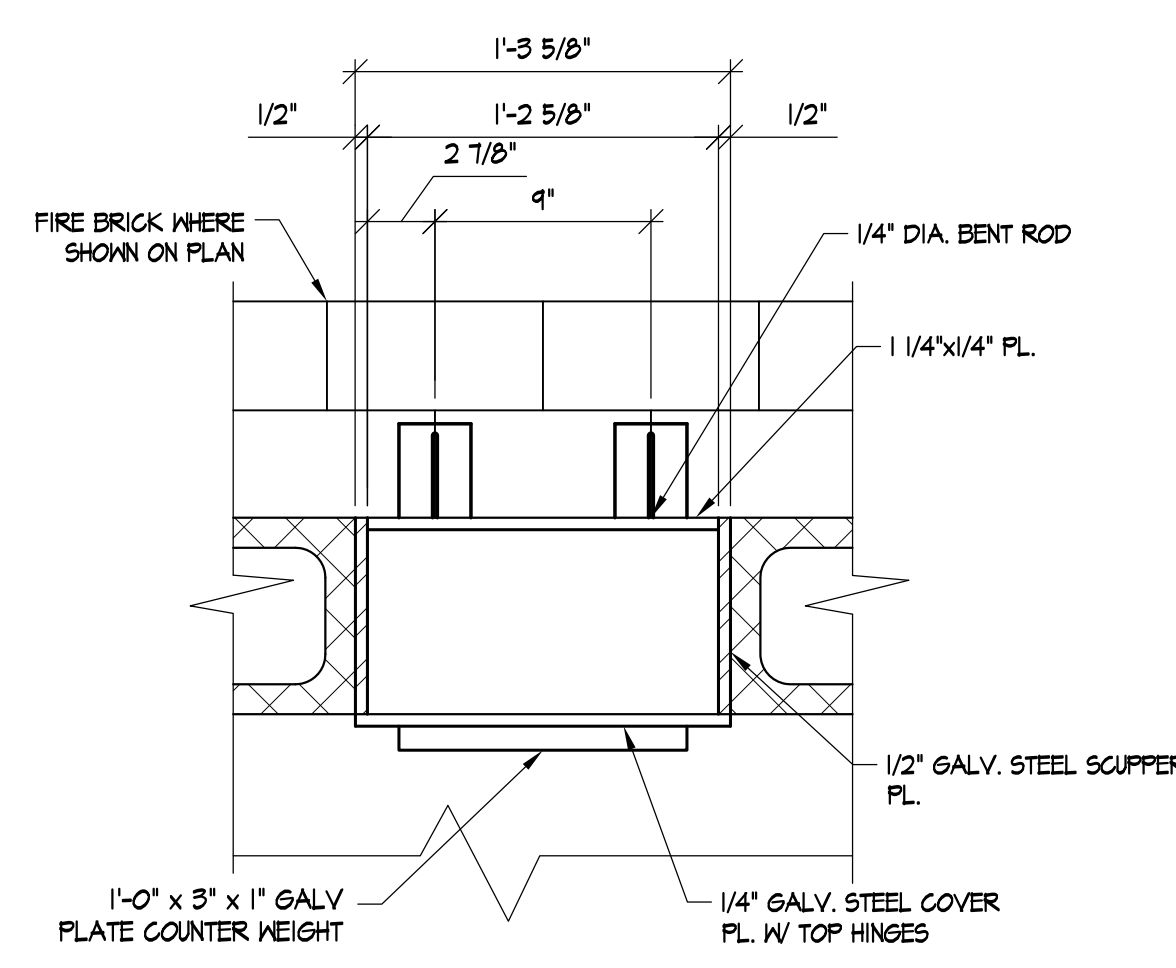
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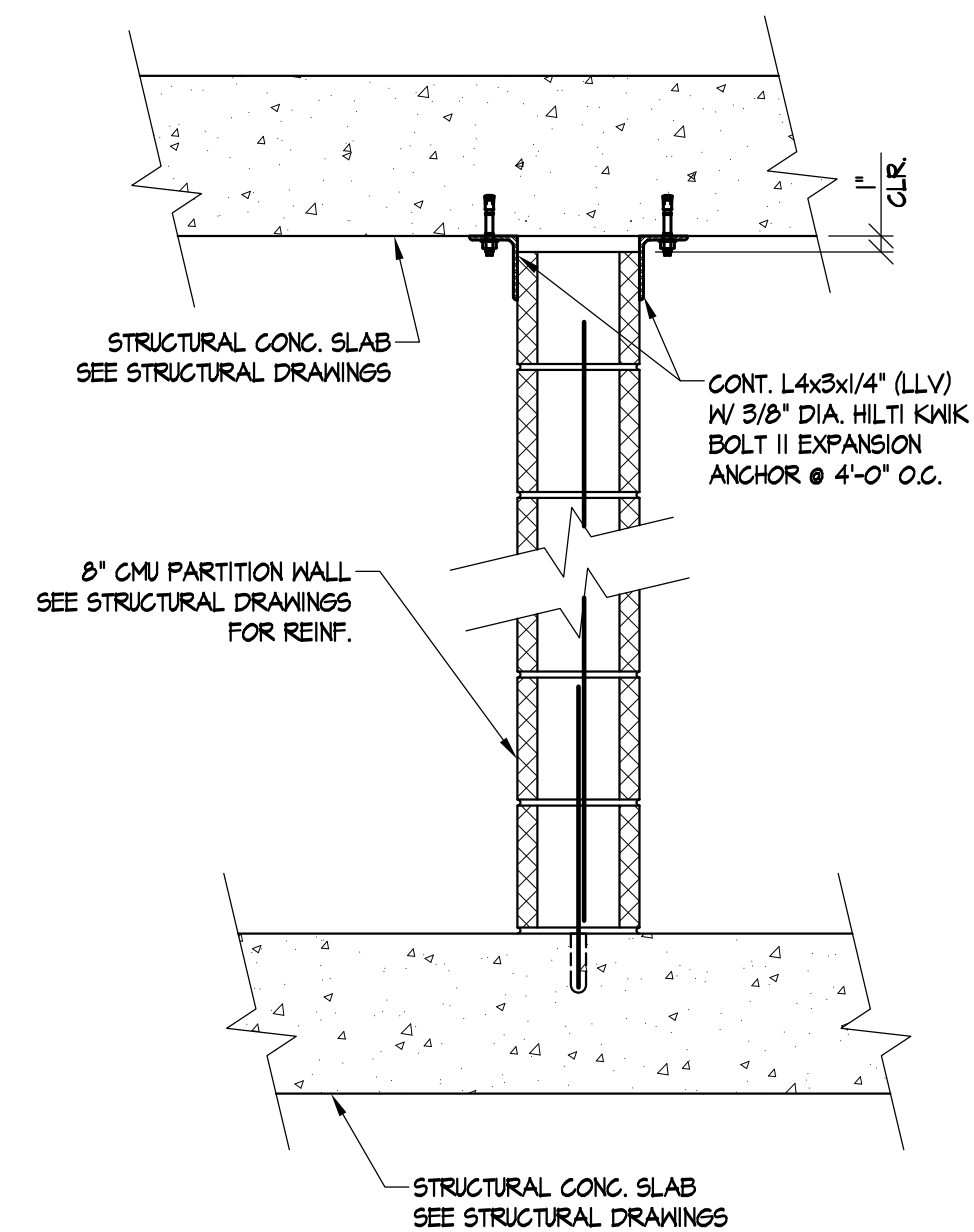
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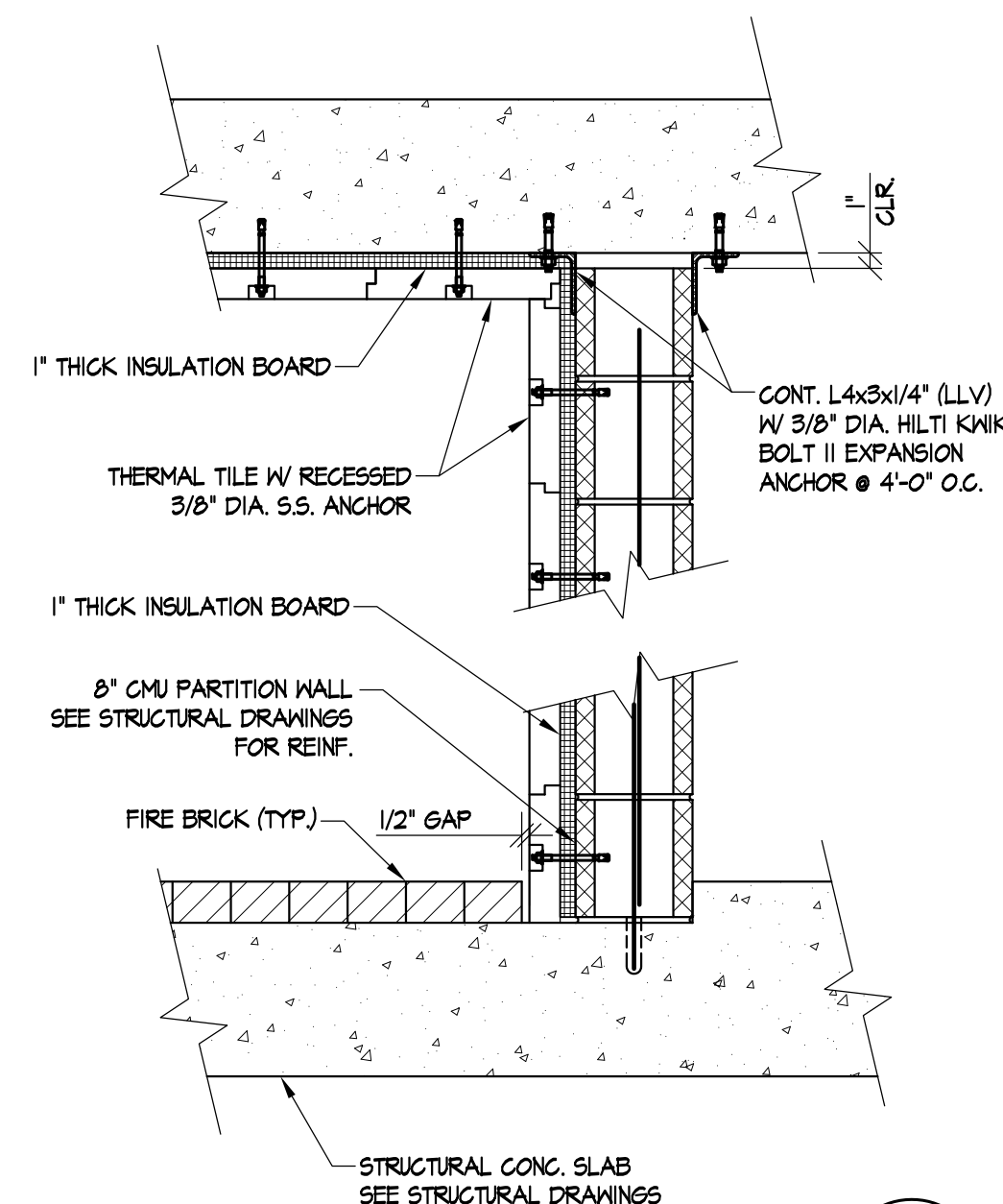
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SCUPPER W/ FIRE BRICK
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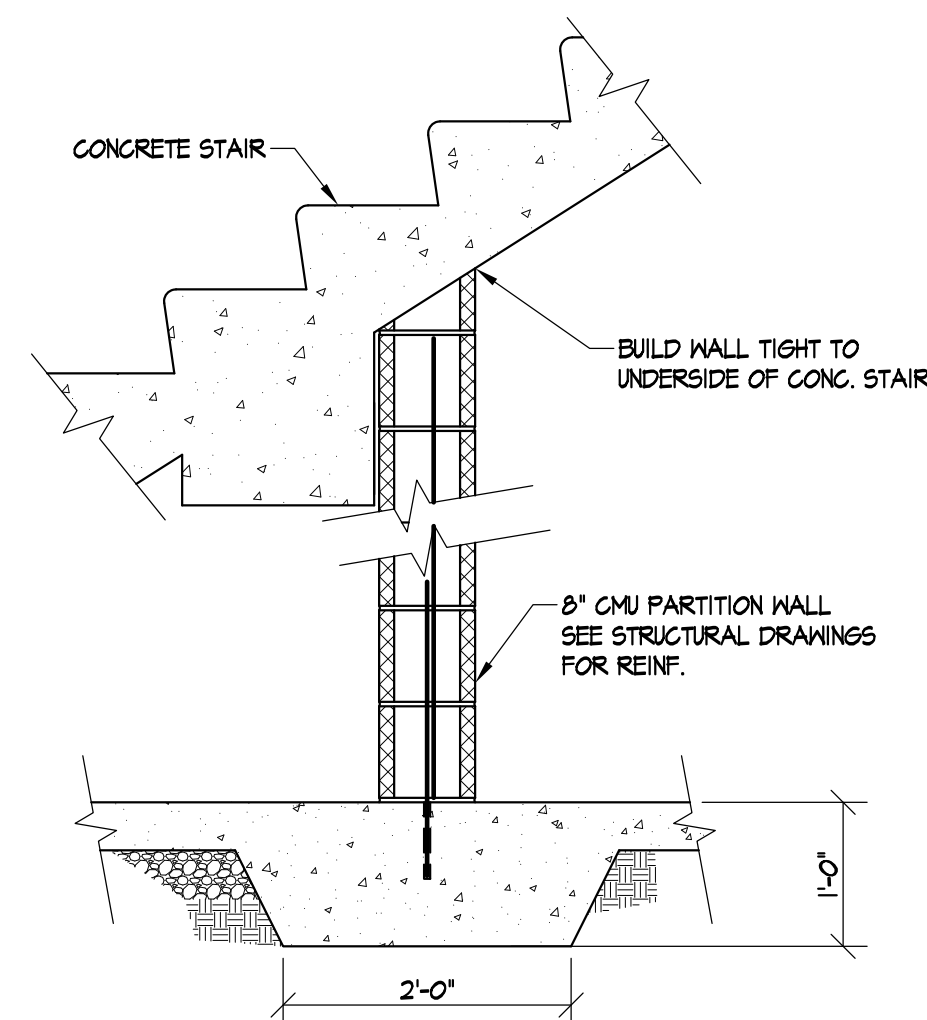
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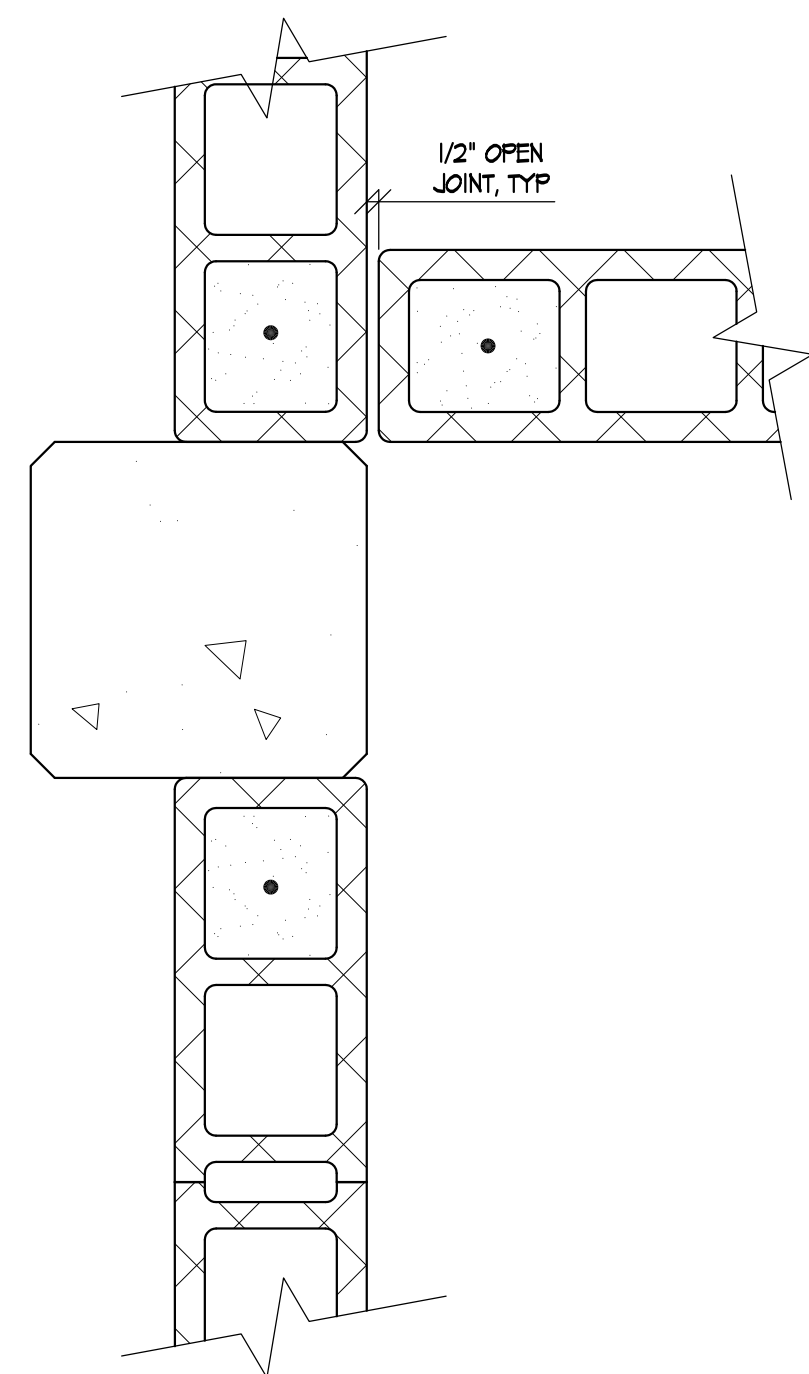
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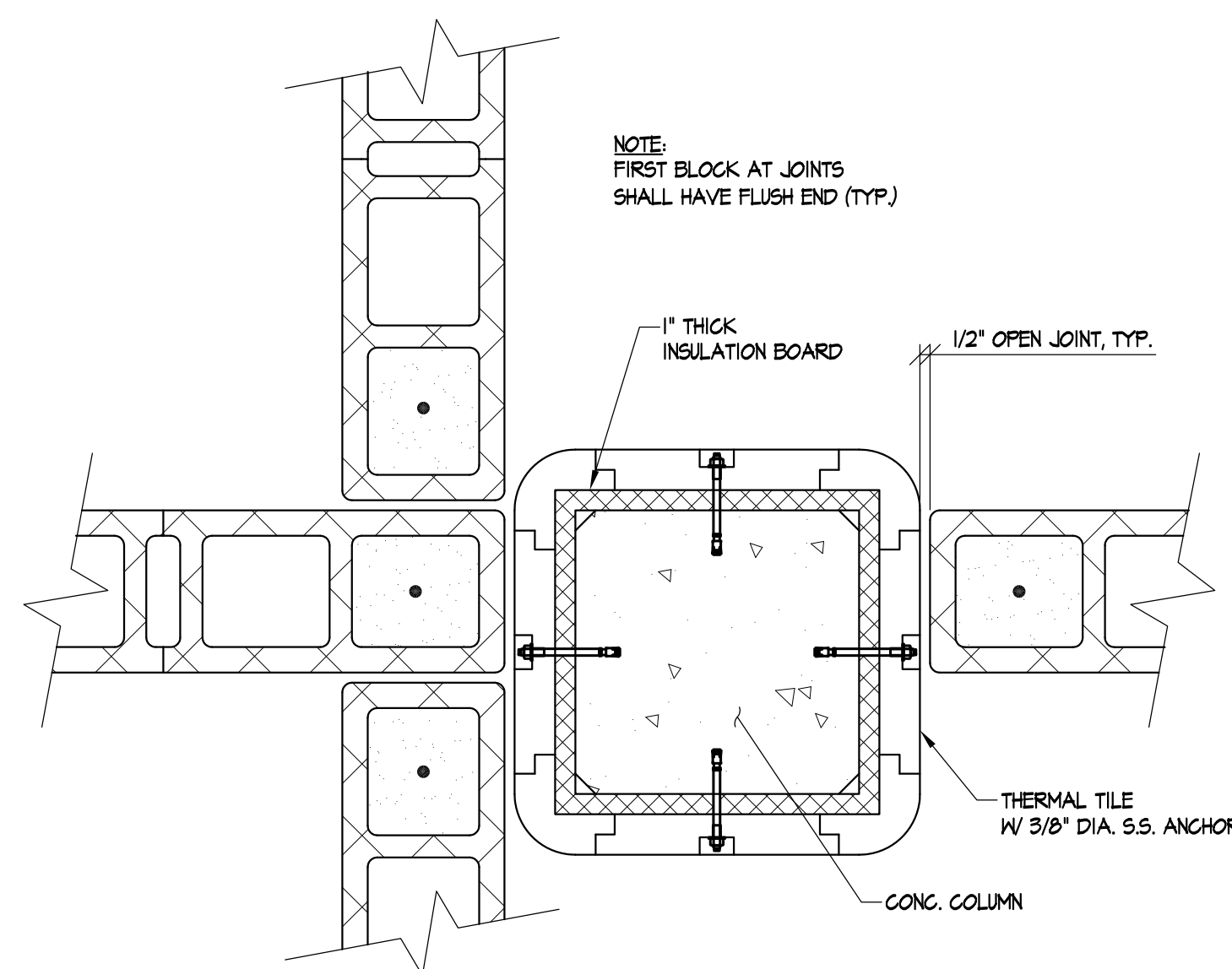
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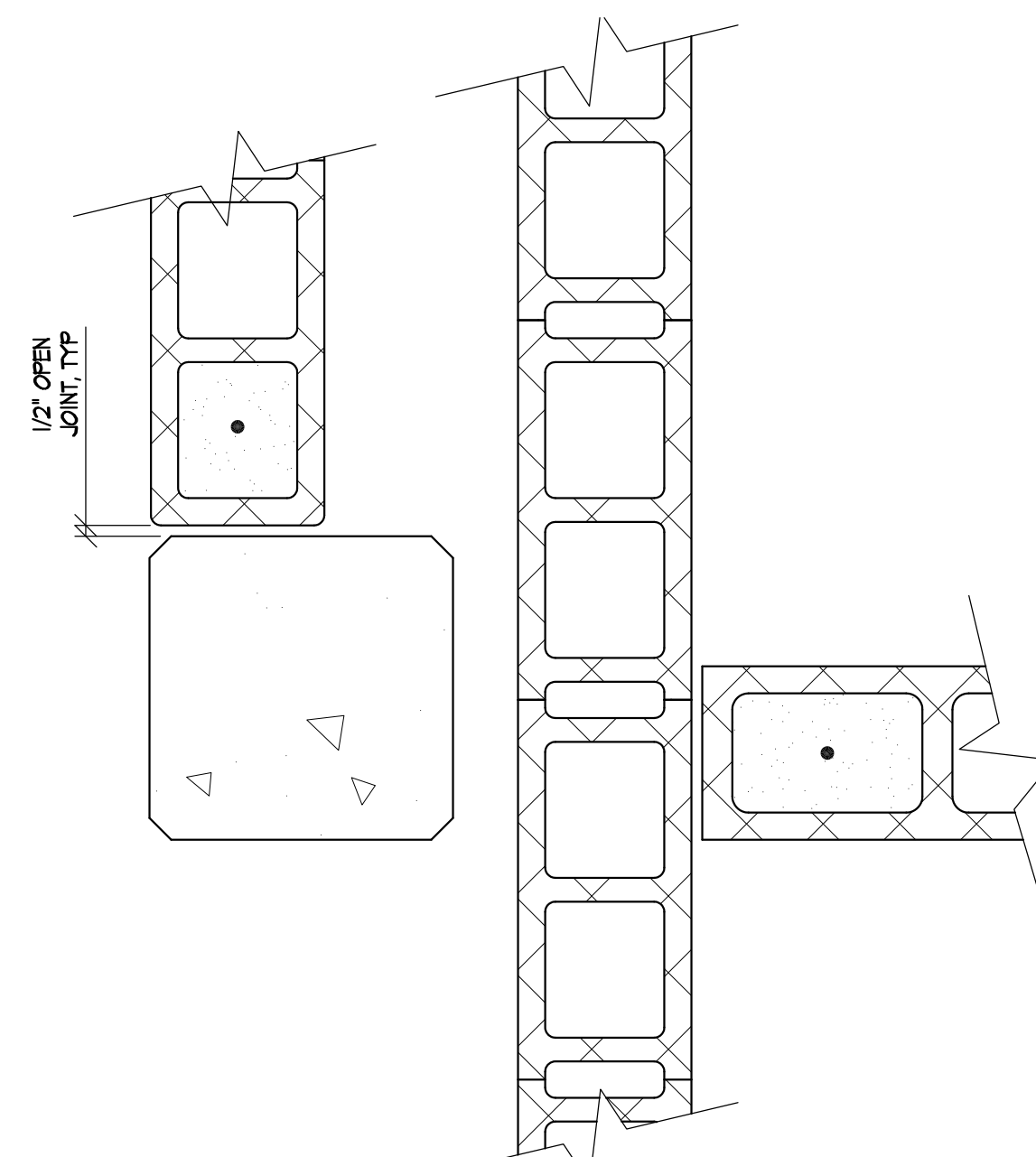
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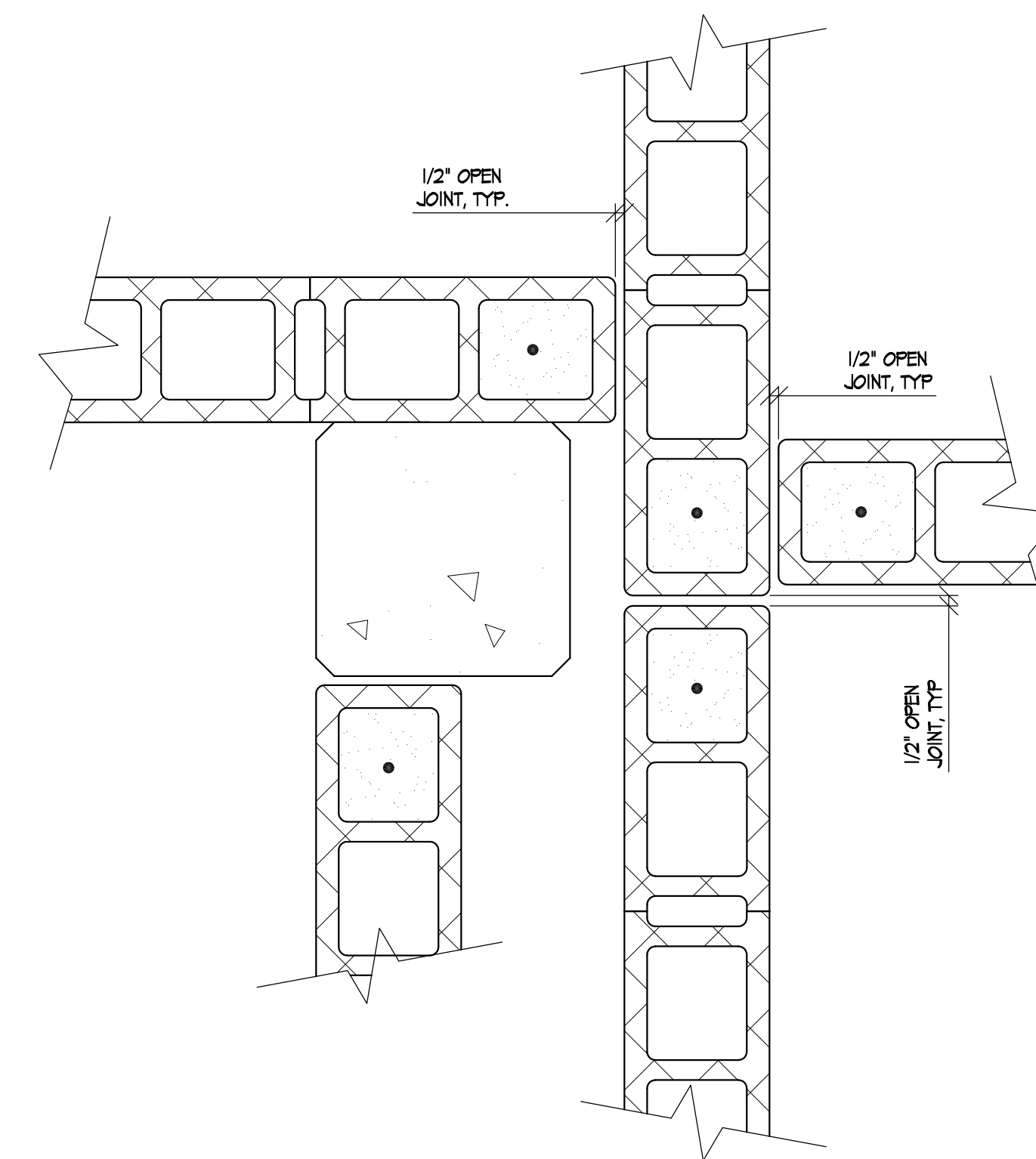
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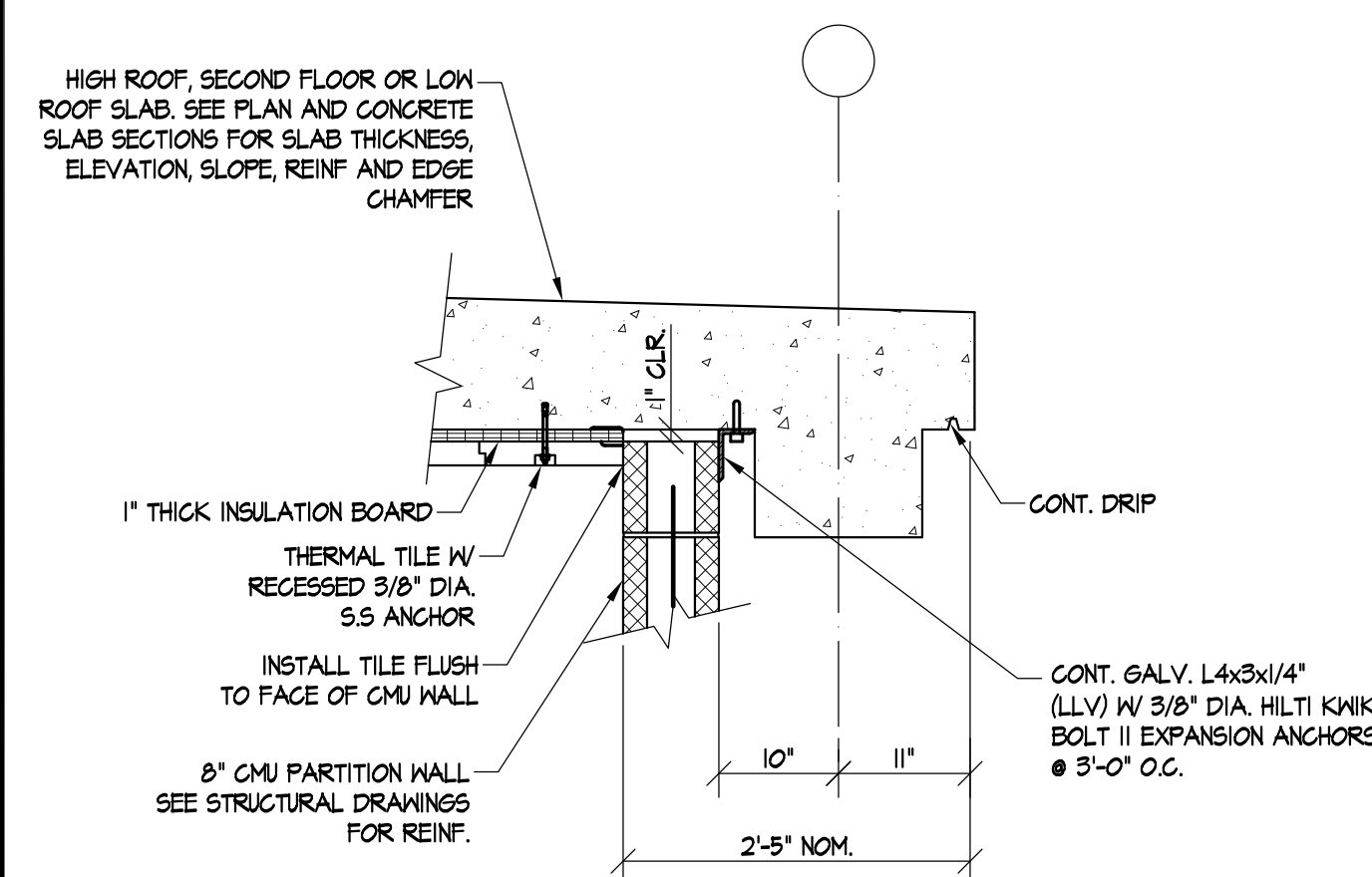
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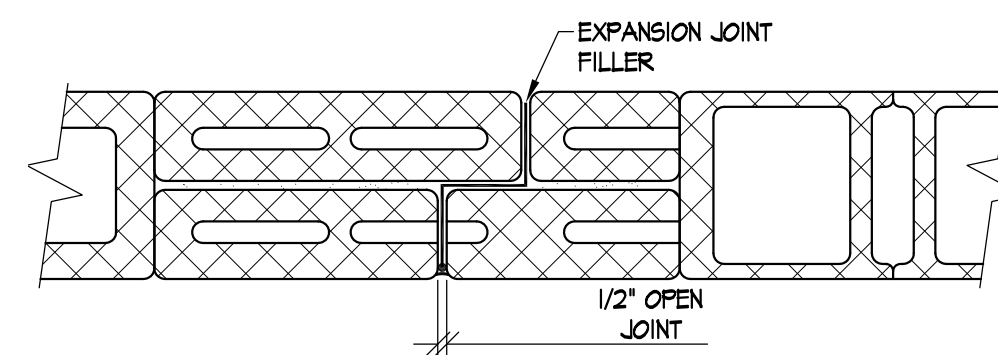
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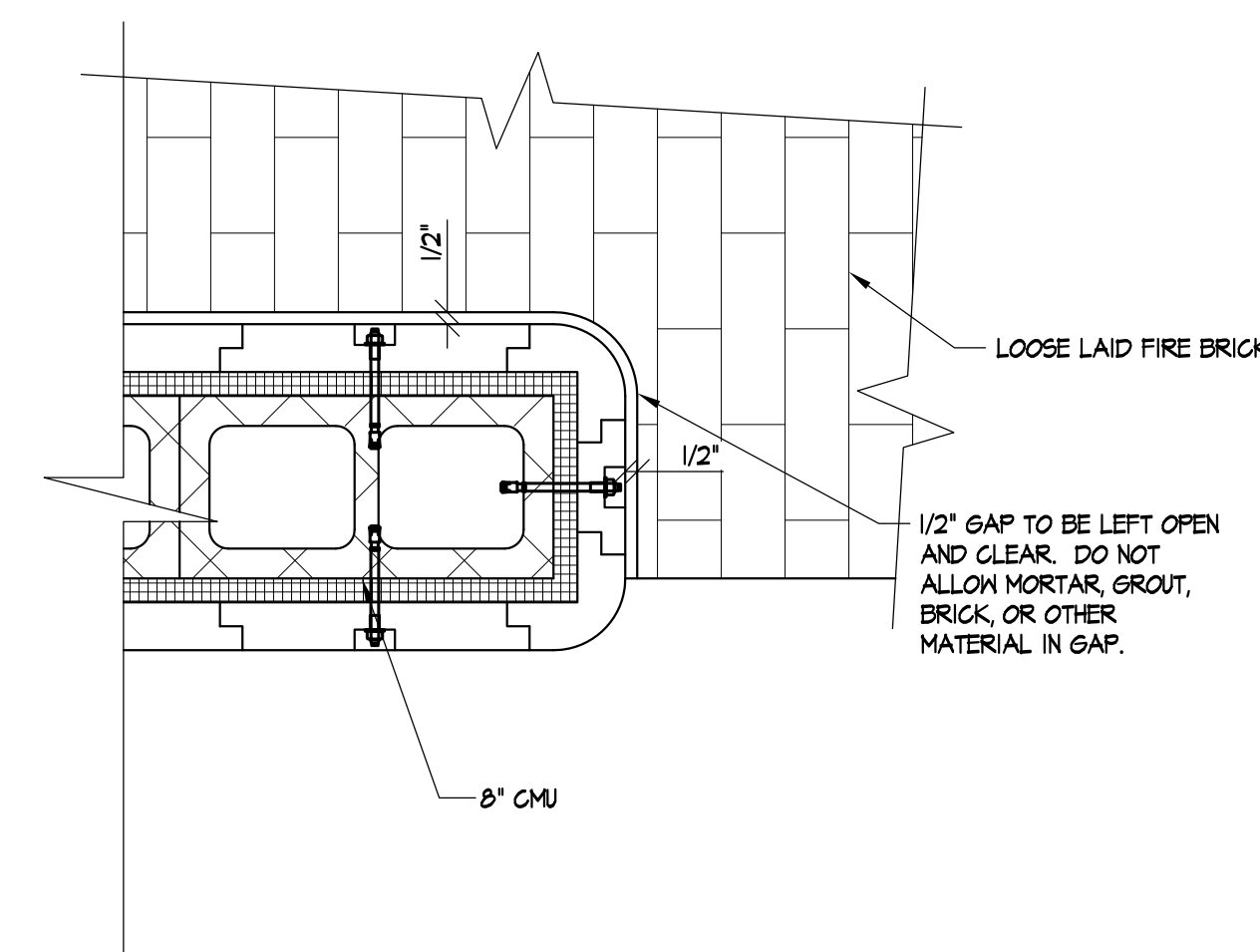
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SCALE: 1 1/2" = 1'-0" A2.0 A3.4



SECTION A **A**
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DETAIL MASONRY OPEN JOINTS DETAIL **12**
SCALE: NOT TO SCALE



DETAIL FIRE BRICK AT WALL **13**
SCALE: 1 1/2" = 1'-0"

PRIME PROFESSIONAL
FIRM LOGO

Project Title
COMMONWEALTH OF
VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

SUB-CONSULTANT'S
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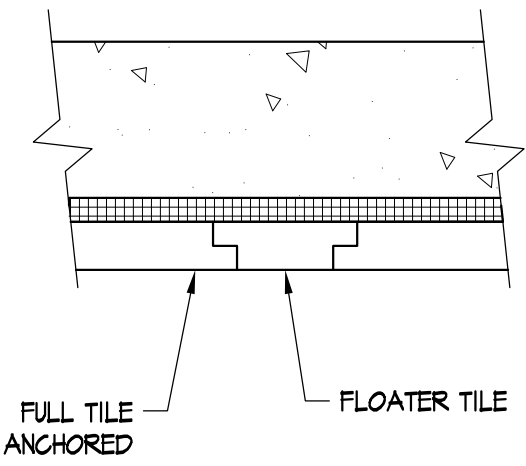
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Drawn By: SJS	Checked By: SMF
	Date: 04/11/13

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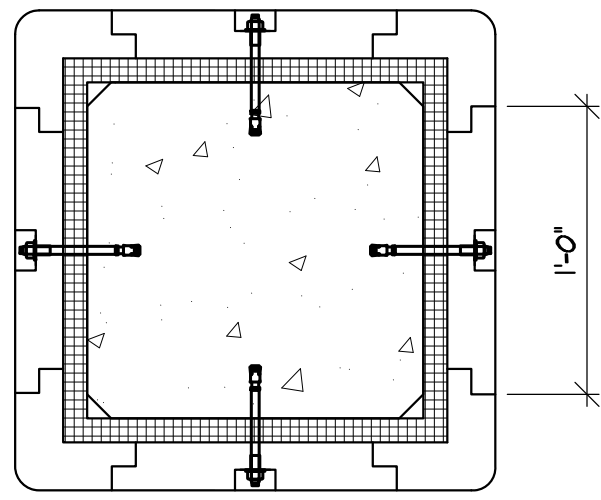
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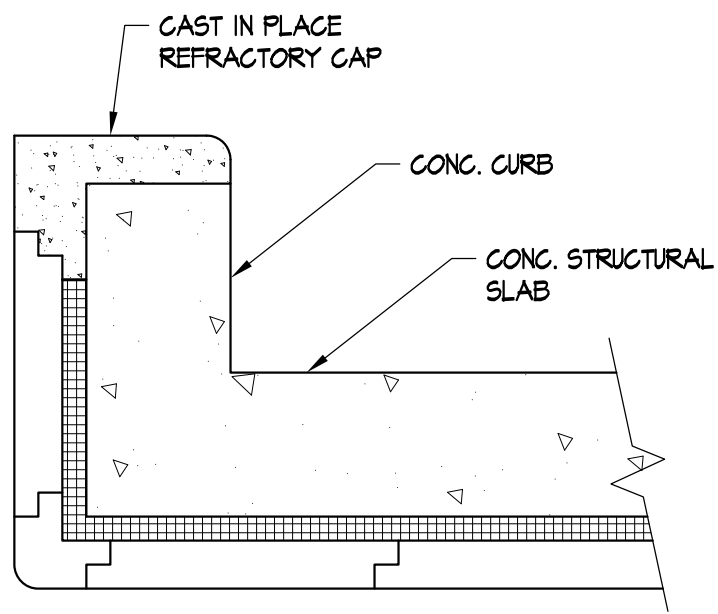
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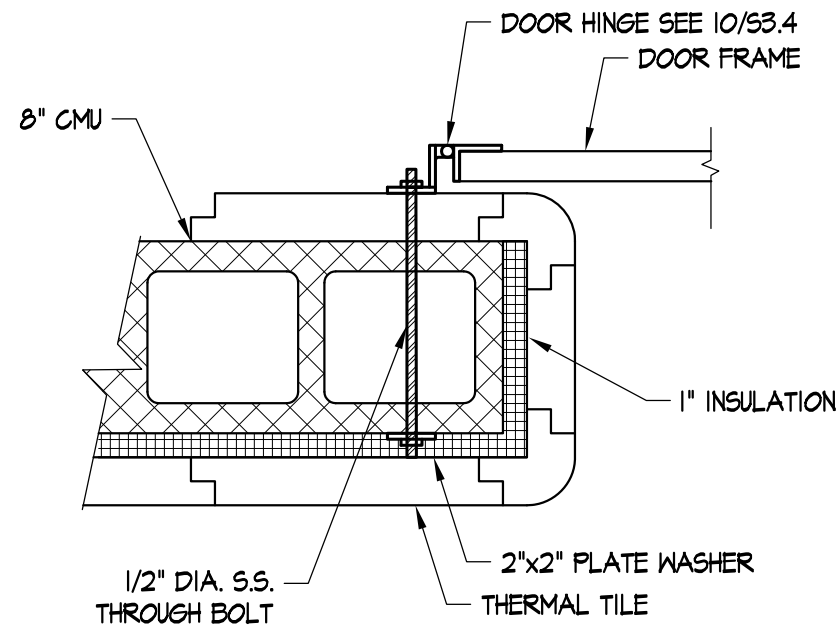
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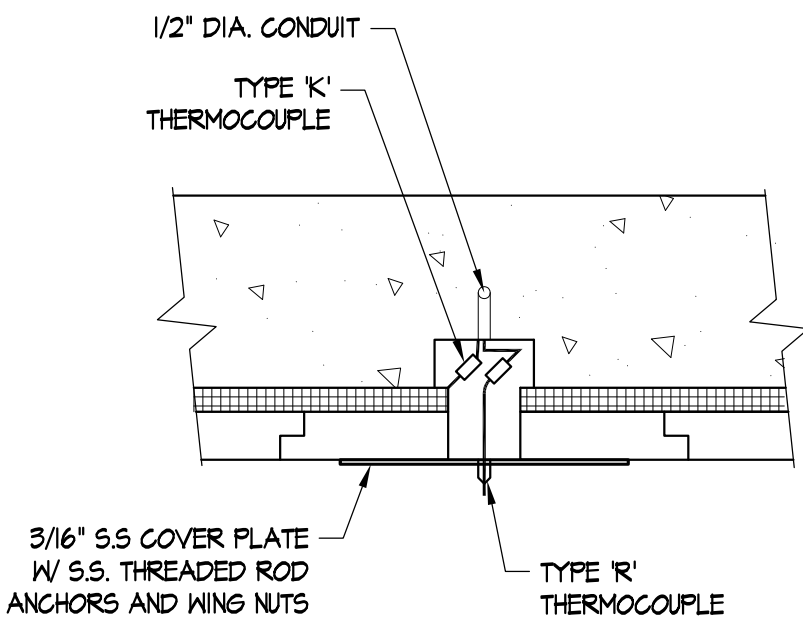
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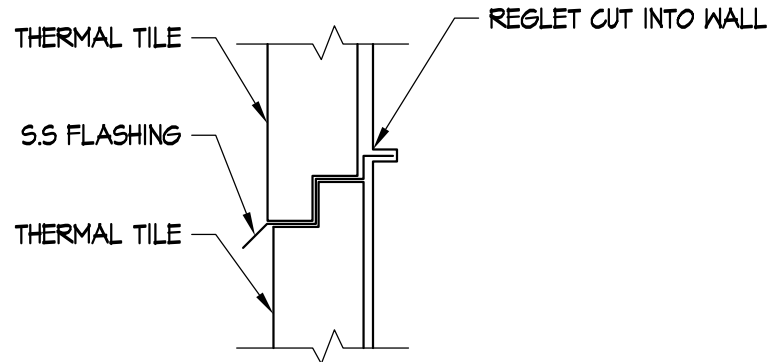
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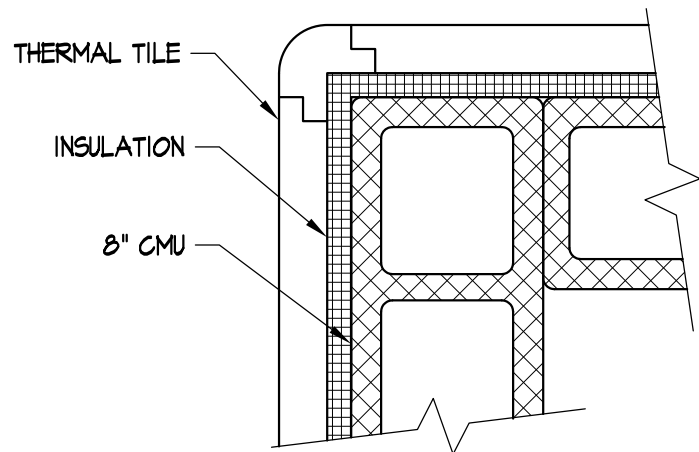
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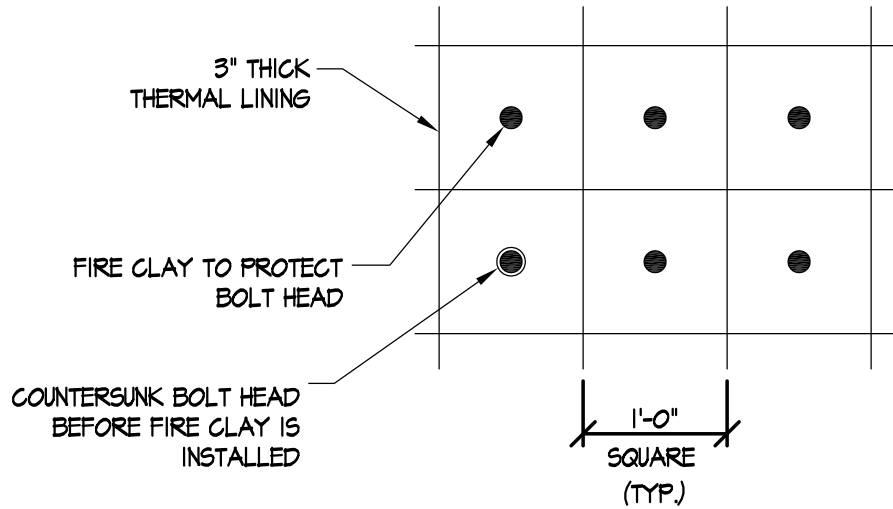
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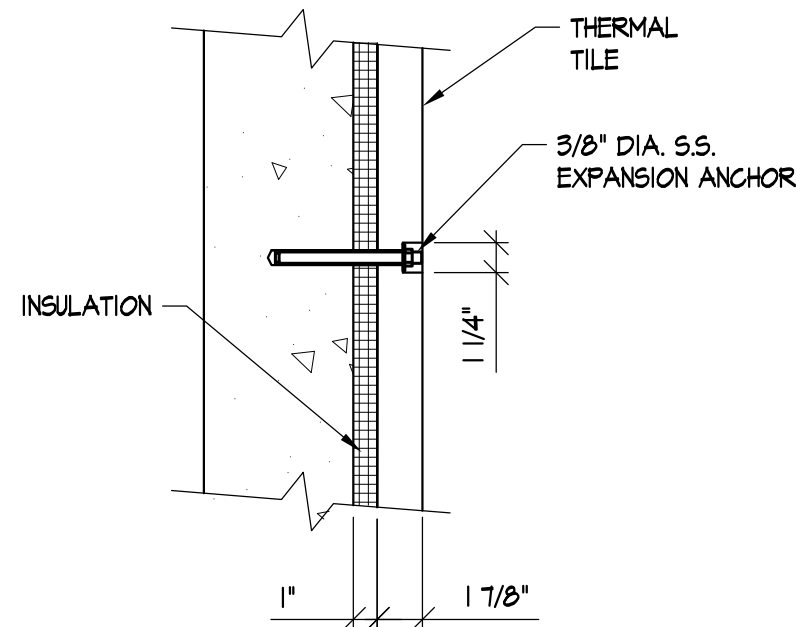
DETAIL 12 A3.5 A3.5
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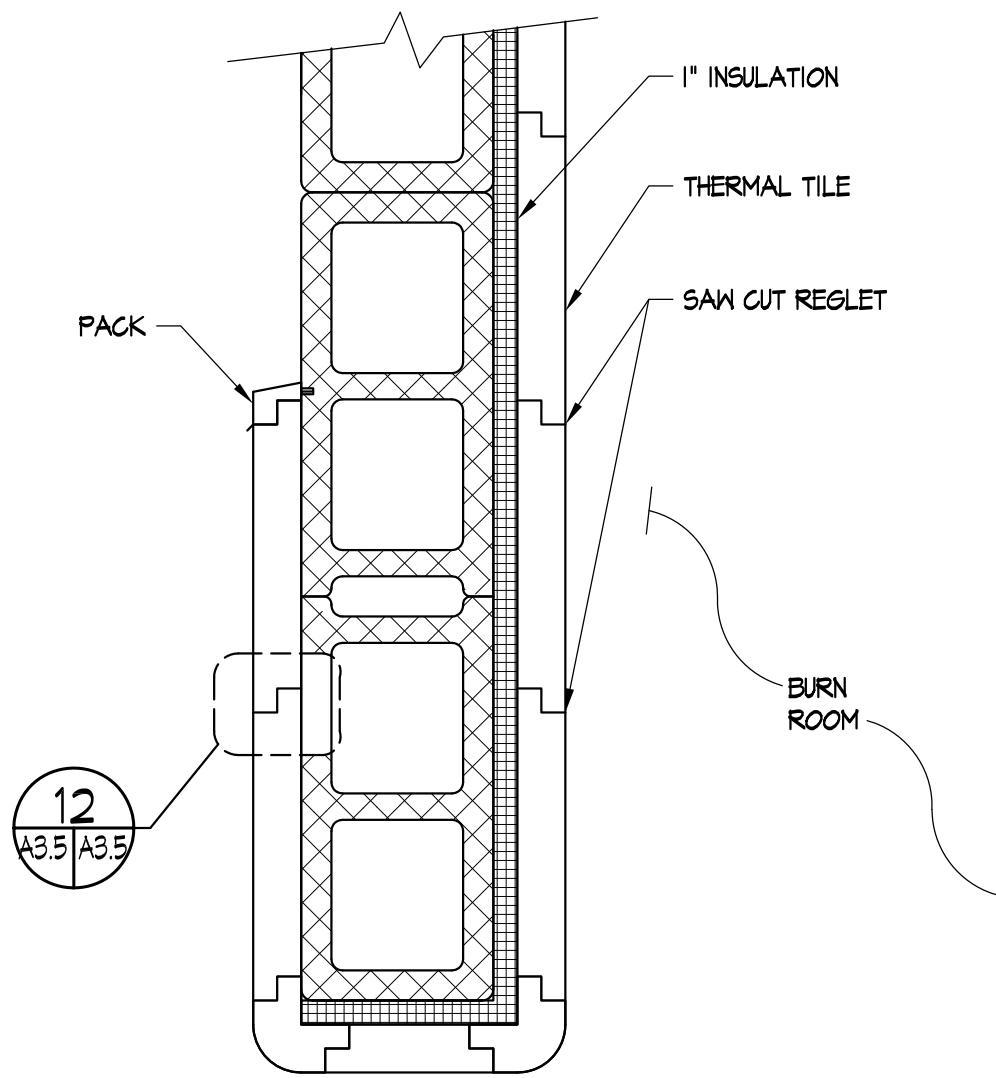
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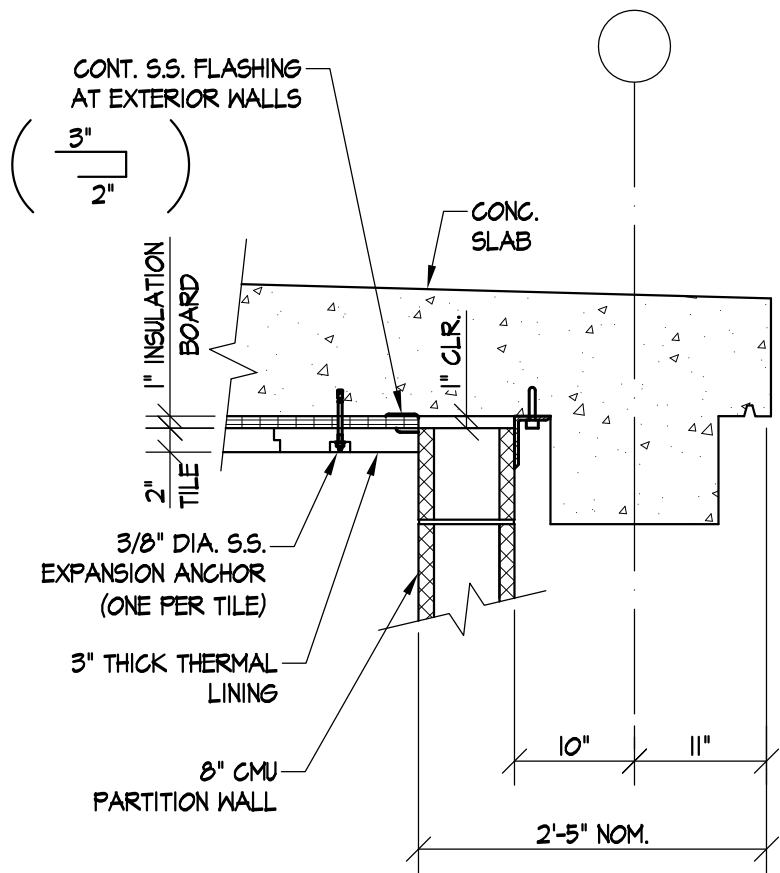
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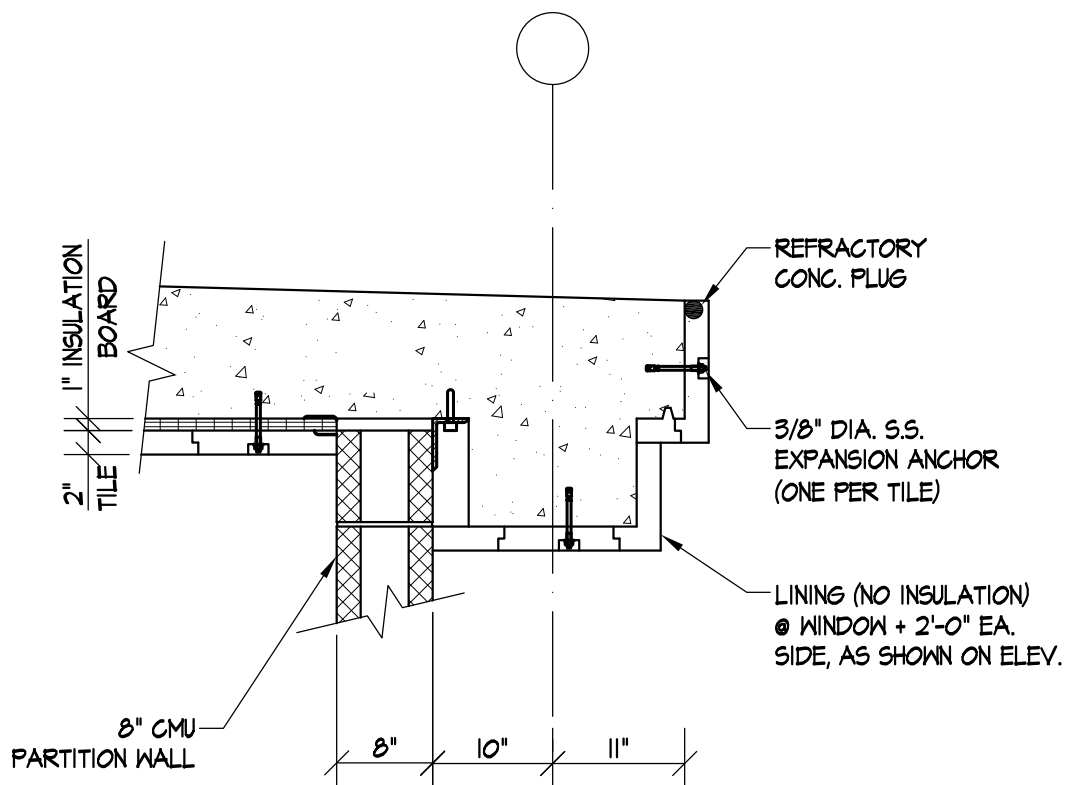
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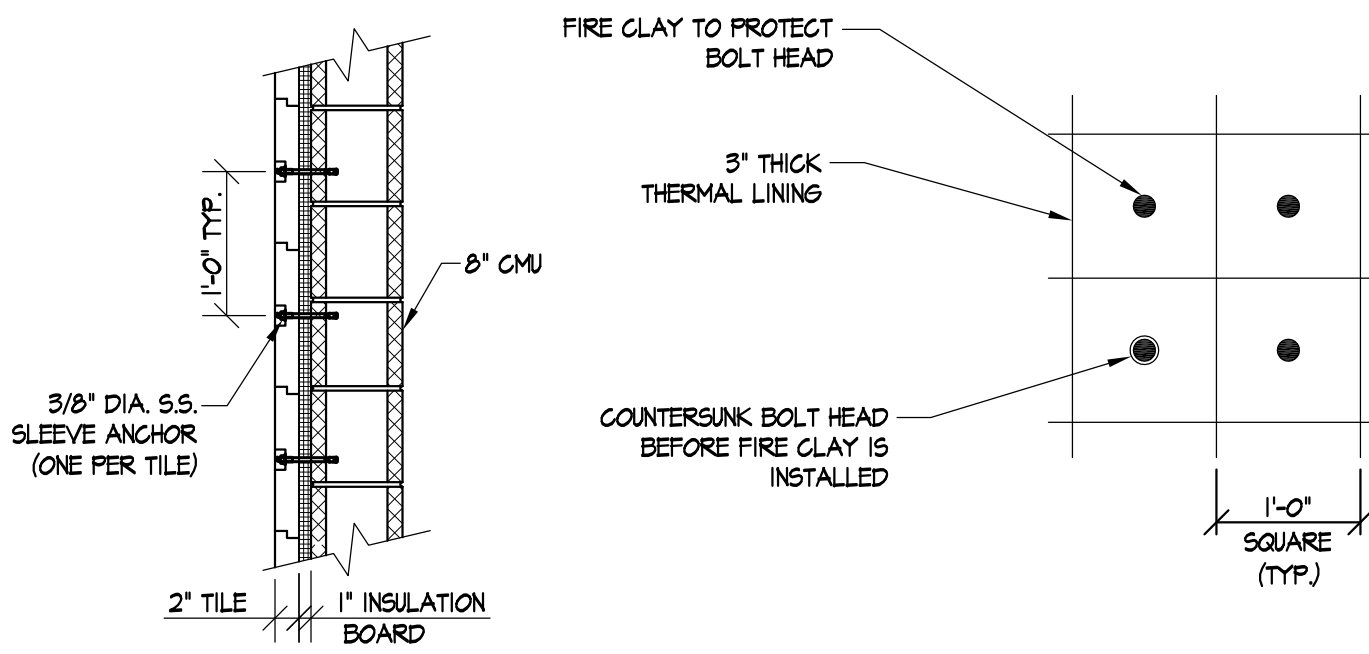
DETAIL ROLLOVER PROTECTION
SCALE: 1 1/2" = 1'-0"



DETAIL THERMAL LINING AT CEILING
SCALE: 3/4" = 1'-0"



DETAIL THERMAL LINING AT SLAB EDGE
SCALE: 3/4" = 1'-0"



SECTION ELEVATION

DETAIL THERMAL LINING AT WALL
SCALE: N.T.S.

PRIME PROFESSIONAL
FIRM LOGO

Project Title
COMMONWEALTH OF
VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

SUB-CONSULTANT'S
LOGO



Department
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Fire Programs

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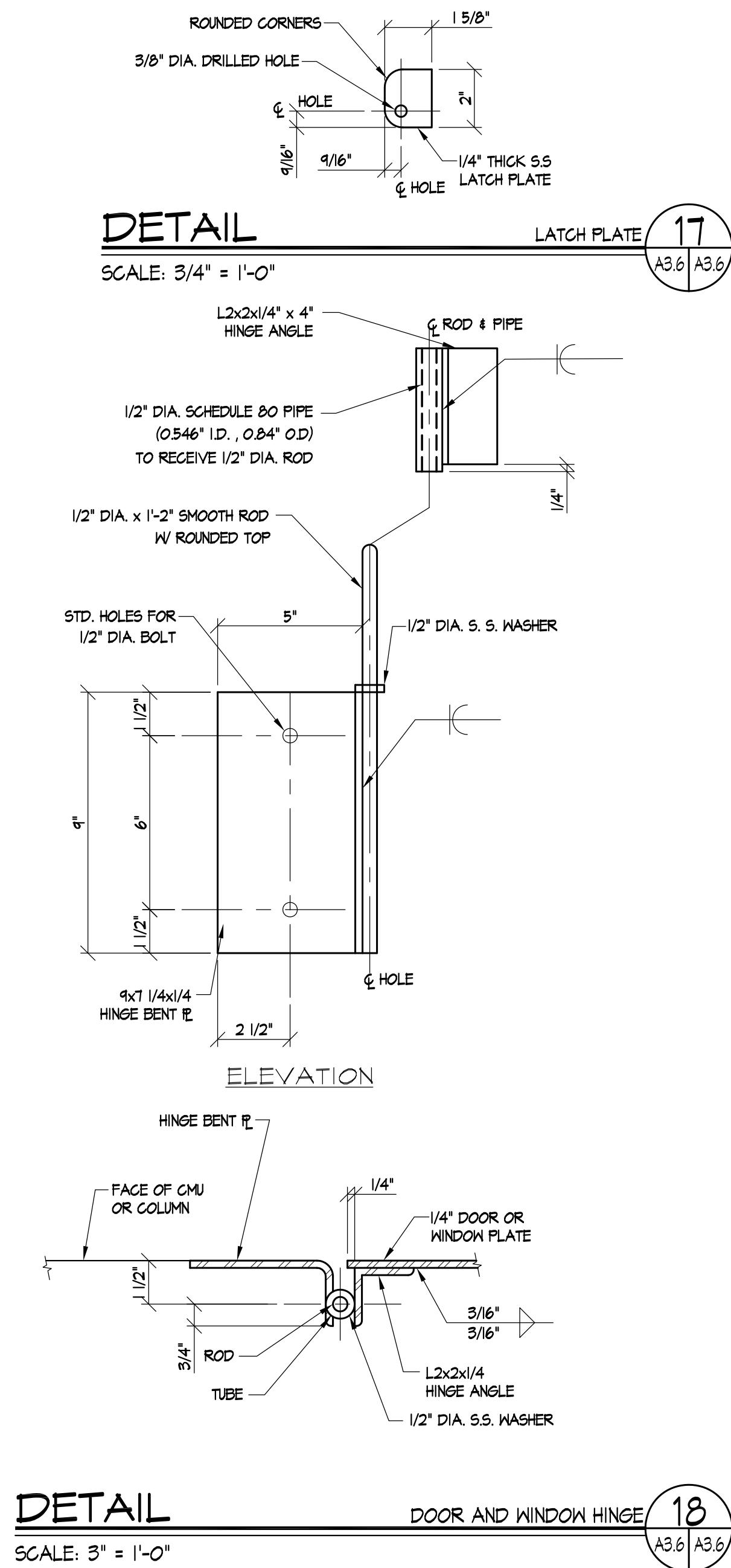
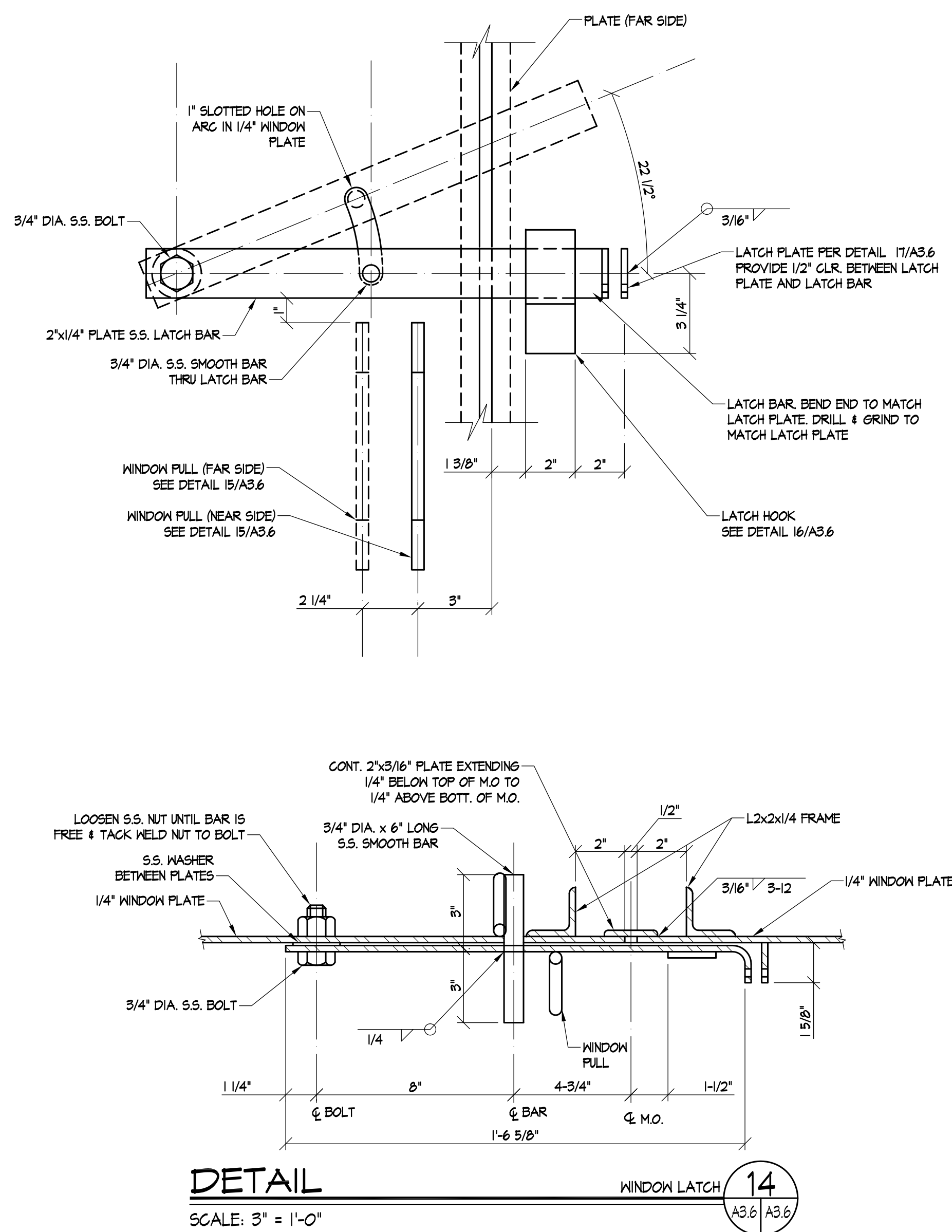
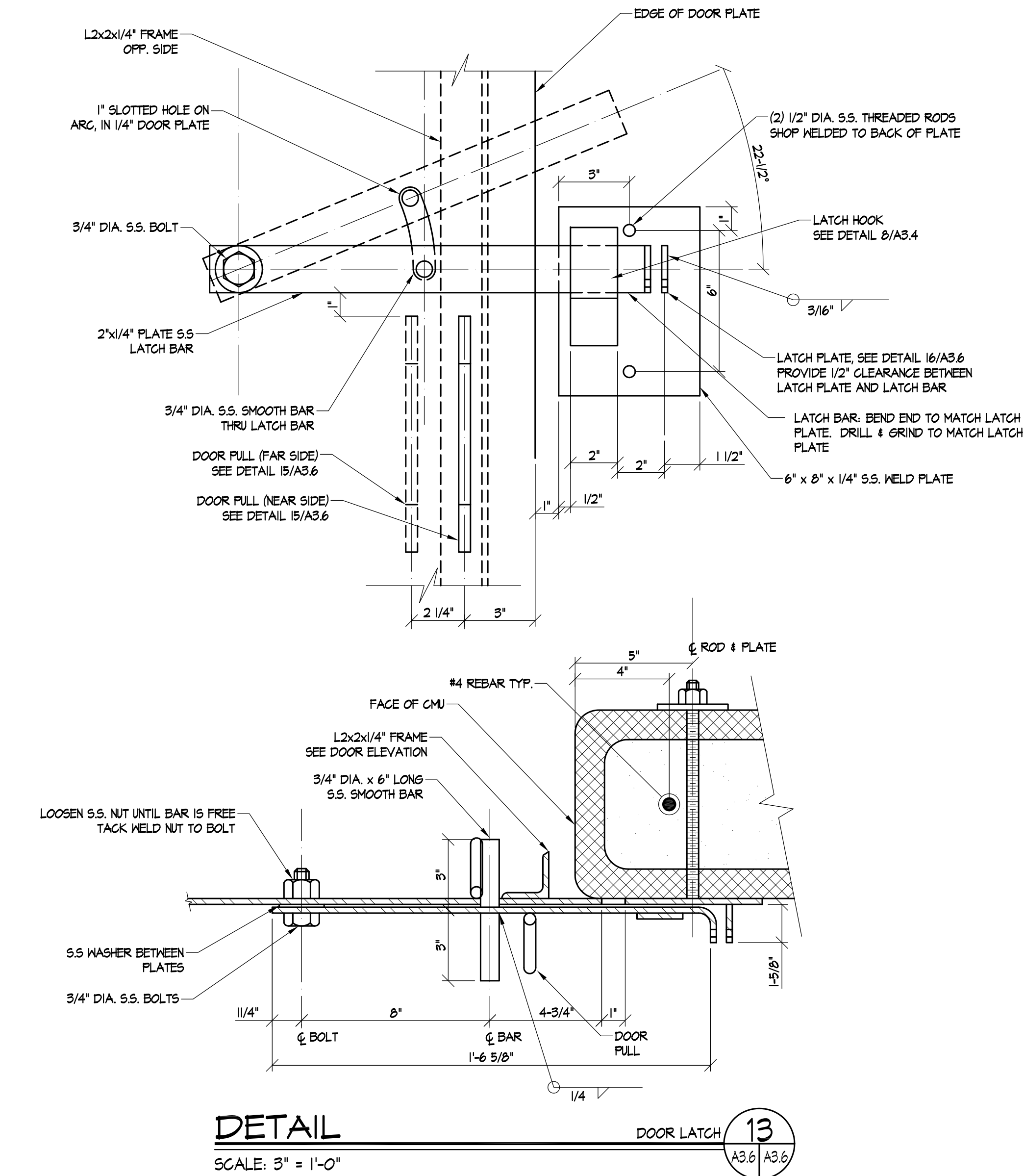
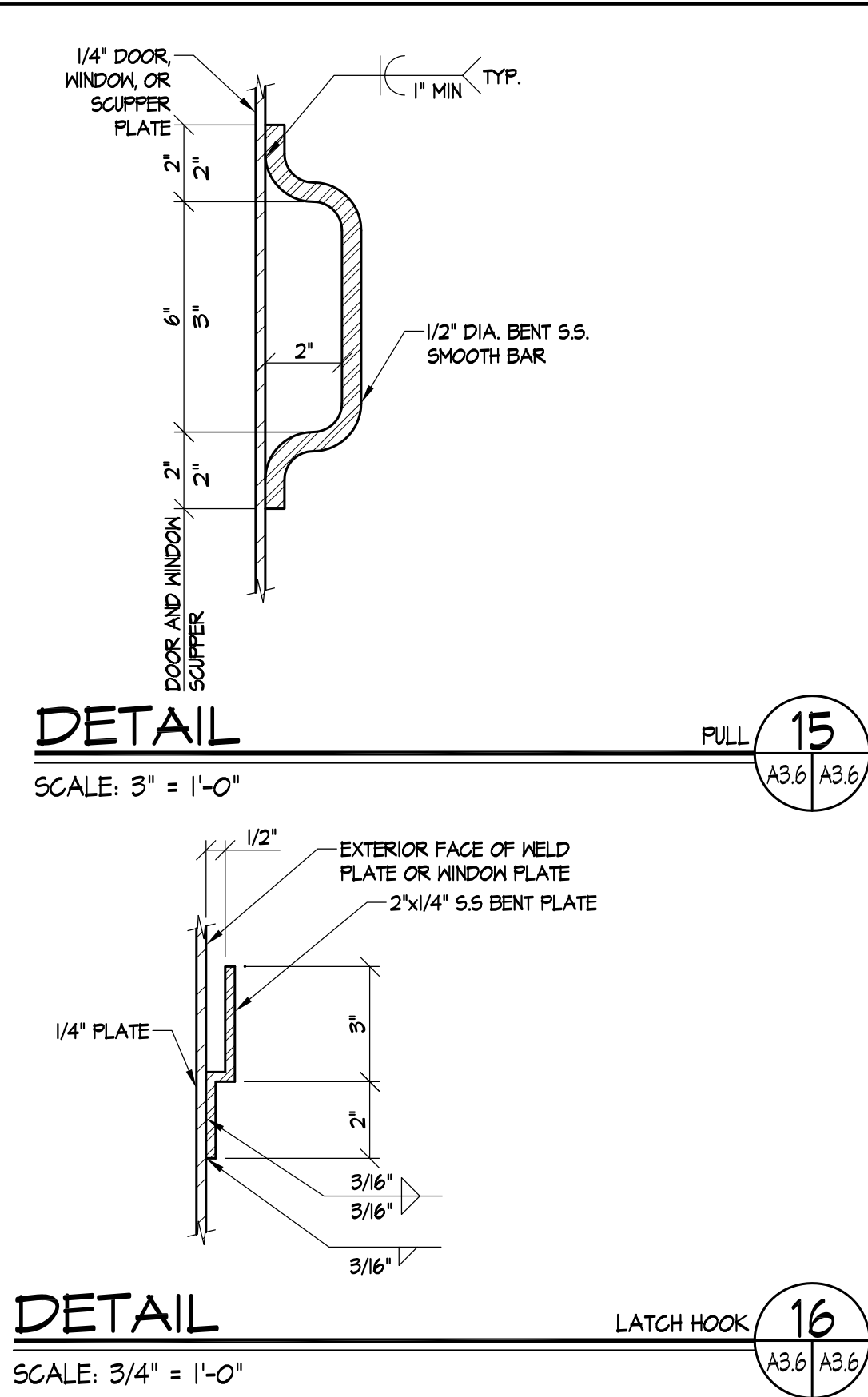
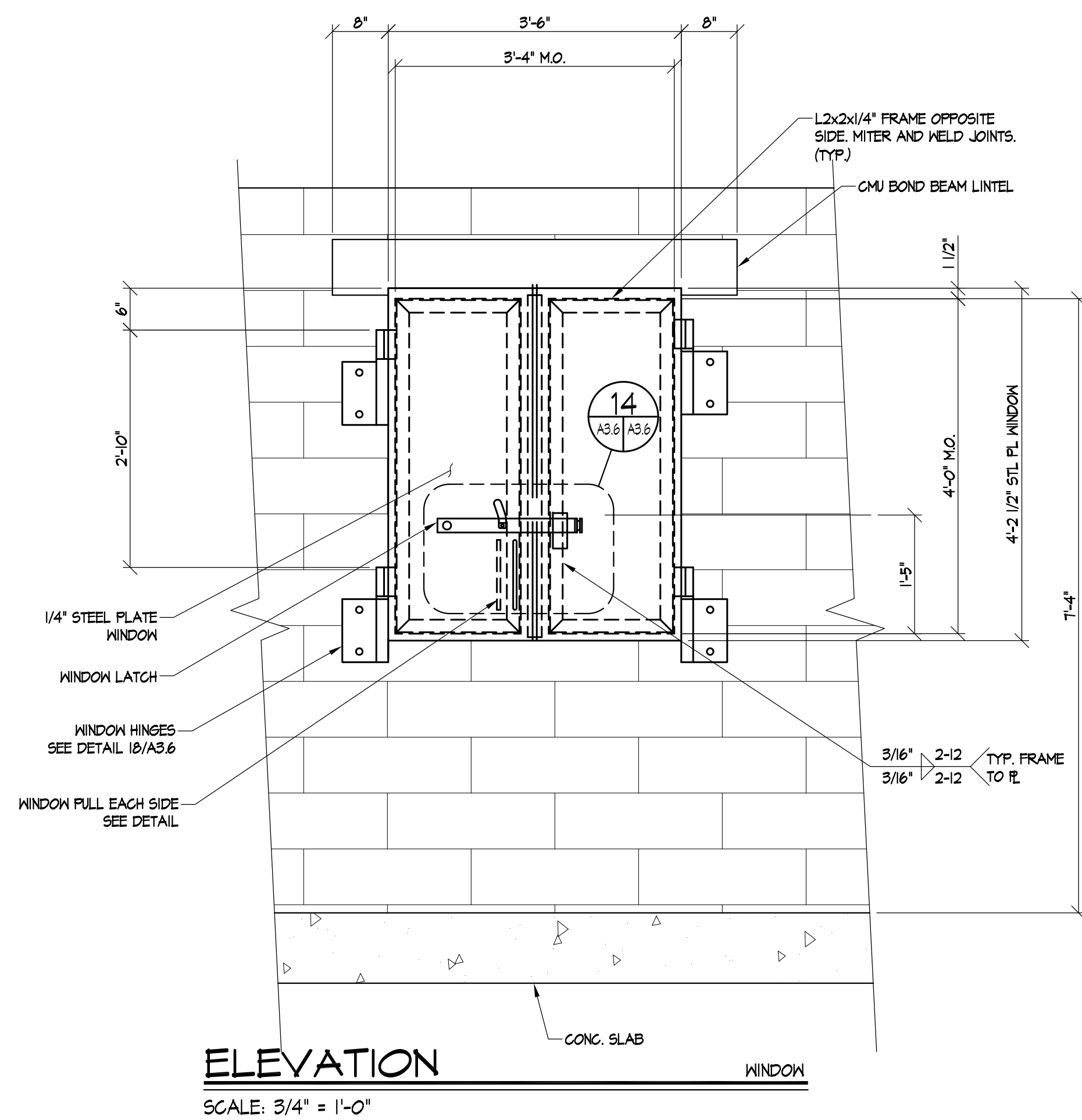
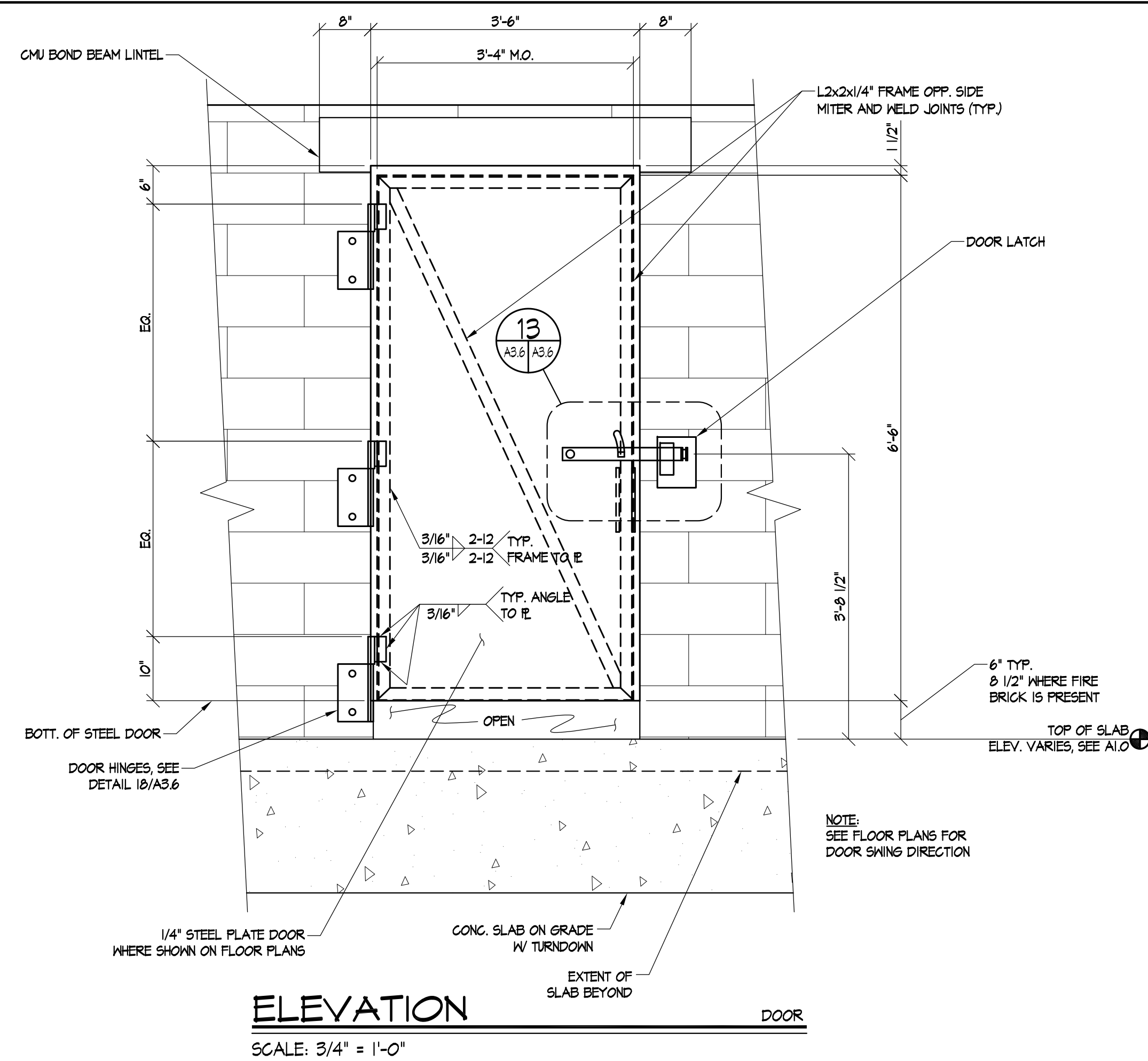
Sheet Title THERMAL LINING DETAILS	
CITY/COUNTY	VIRGINIA
Drawn By: SJS	Approved By: MAM
Checked By: SMF	Date: 04/11/13

PROFESSIONAL
SEAL

Sheet No.

A3.5

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PRIME PROFESSIONAL FIRM LOGO

Project Title
COMMONWEALTH OF VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

SUB-CONSULTANT'S LOGO



Department of Fire Programs

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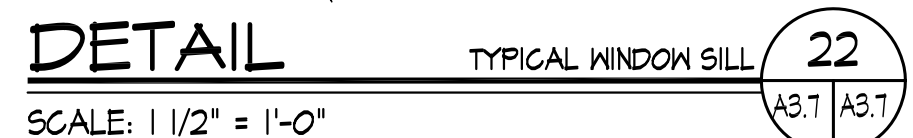
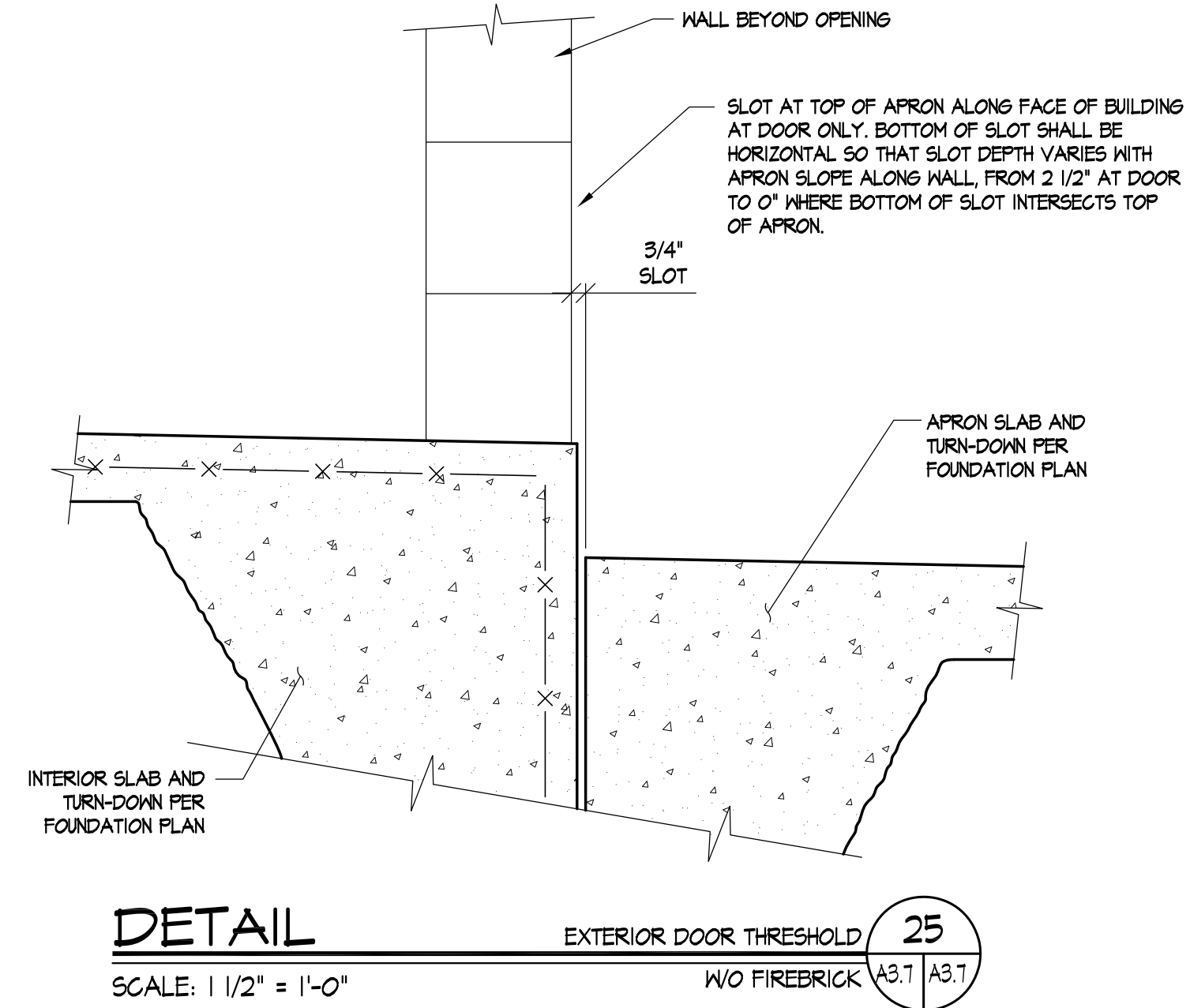
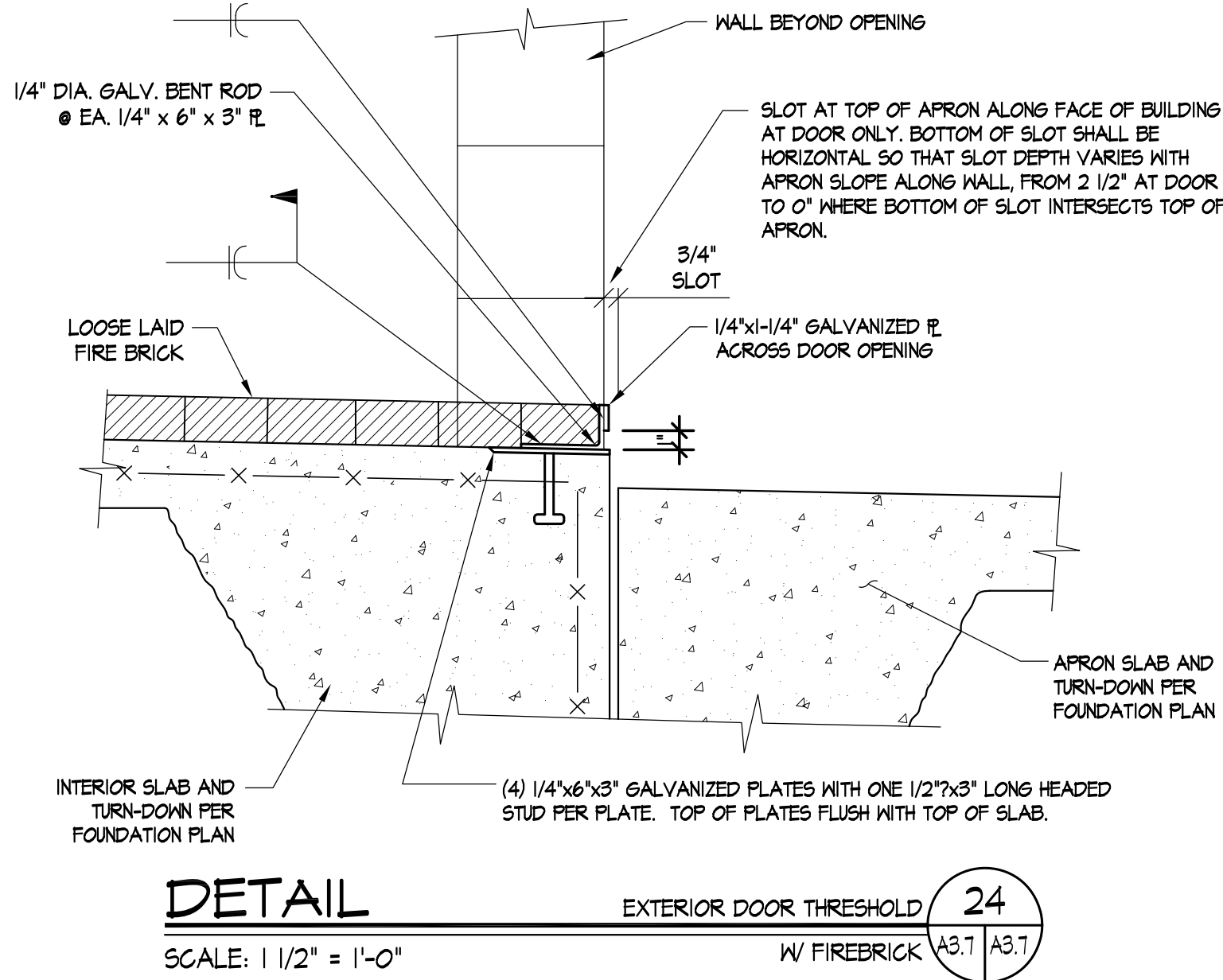
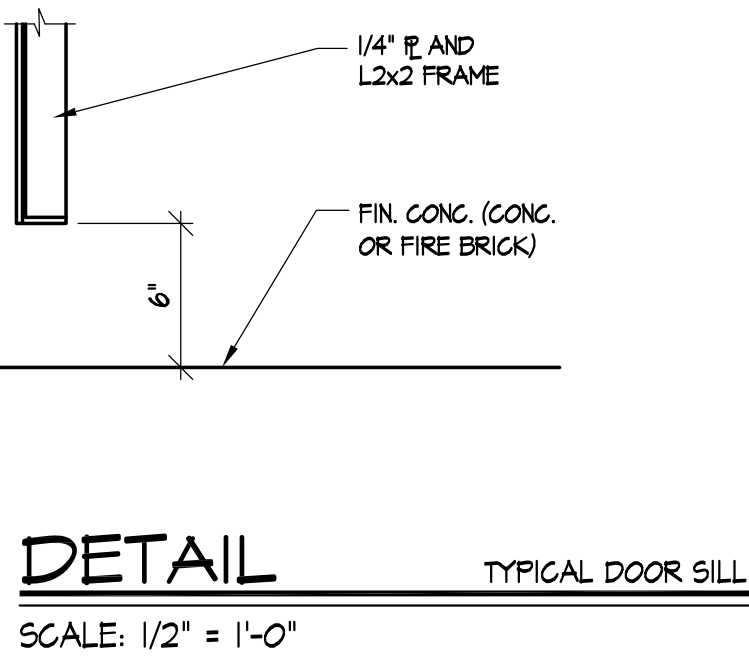
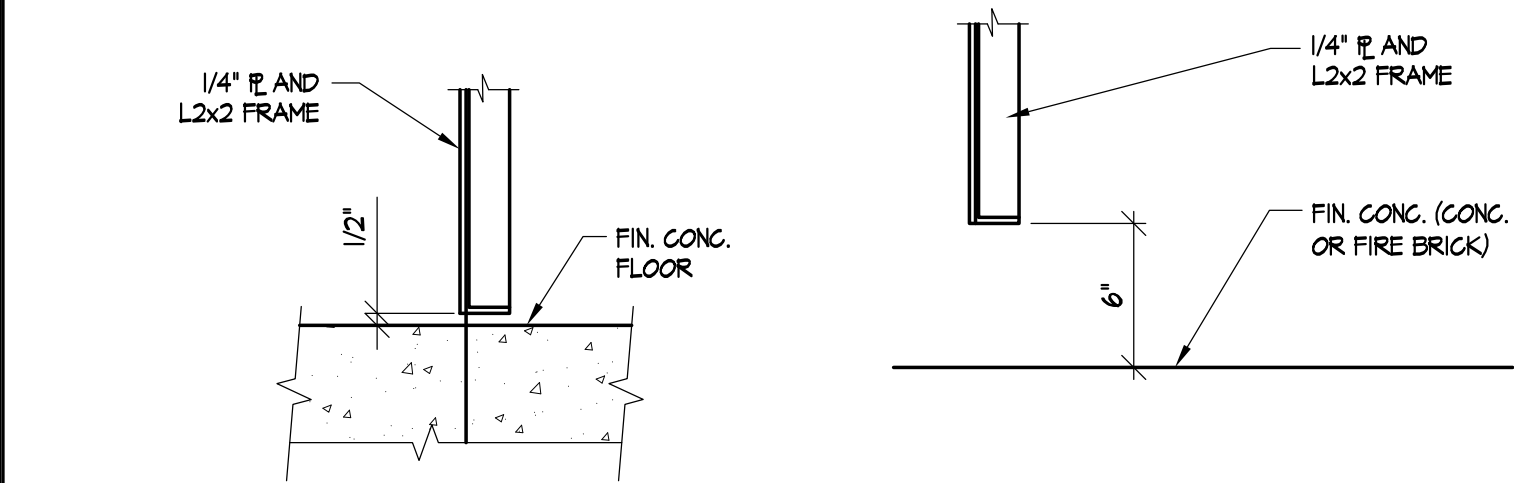
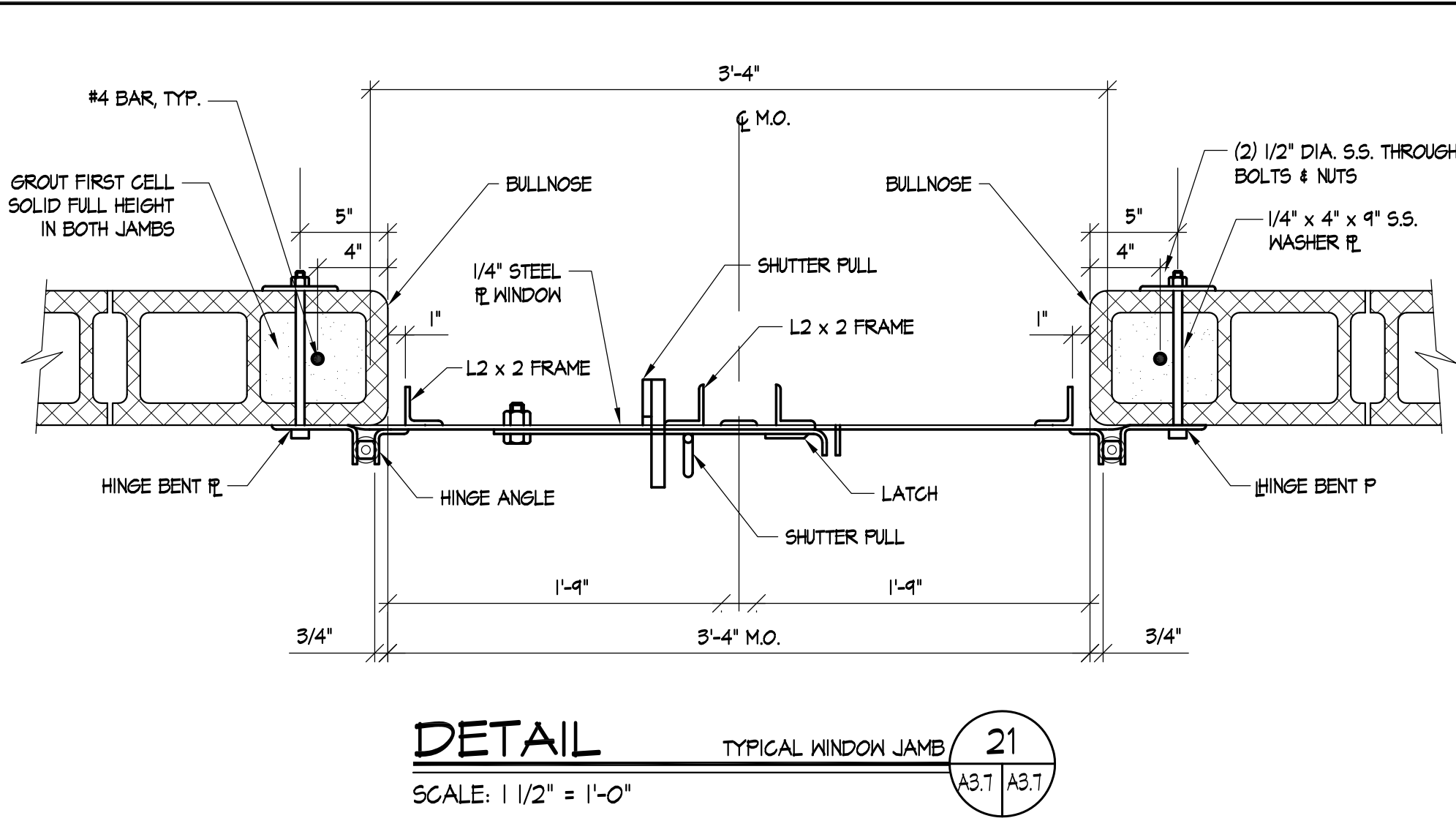
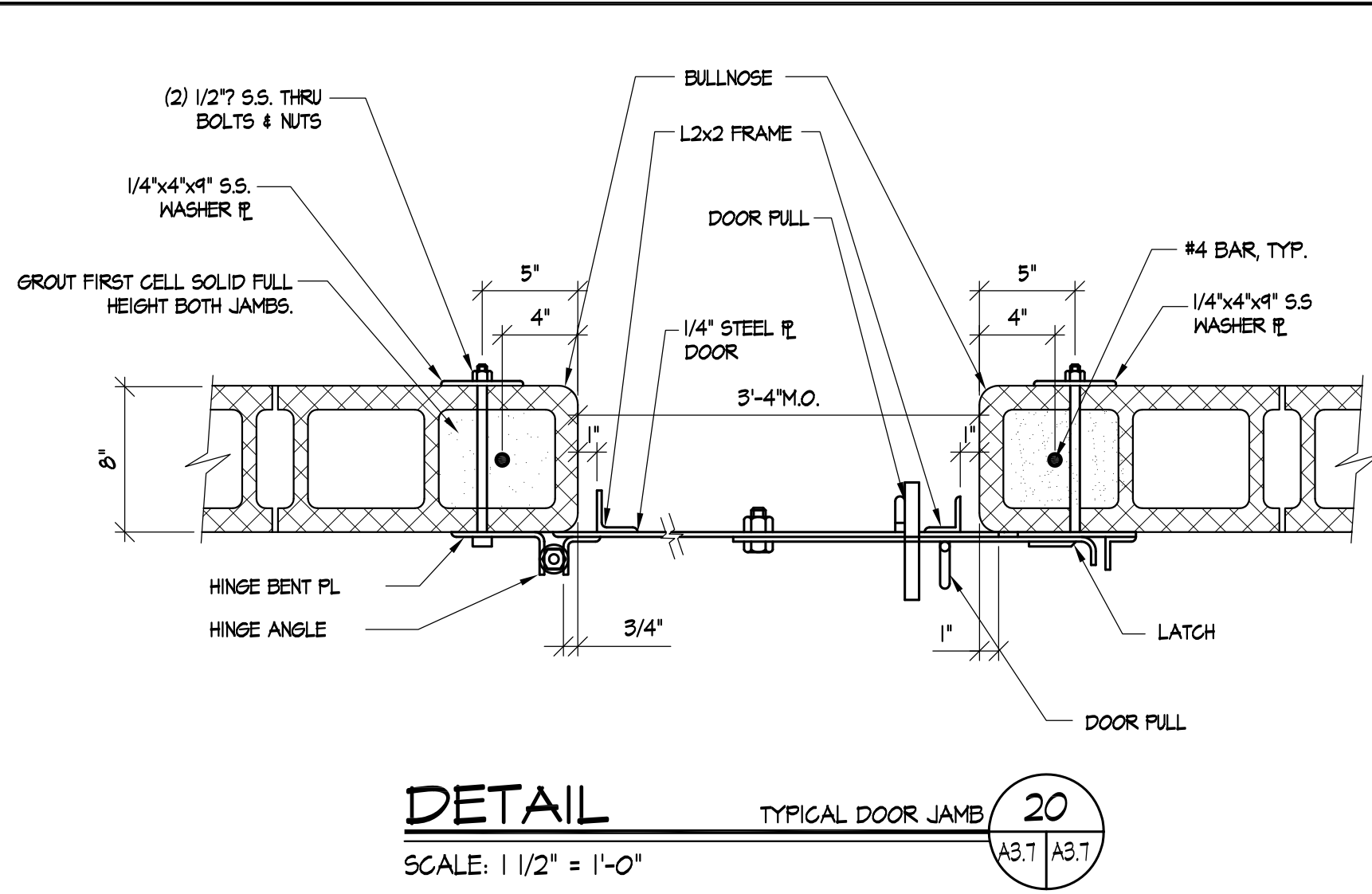
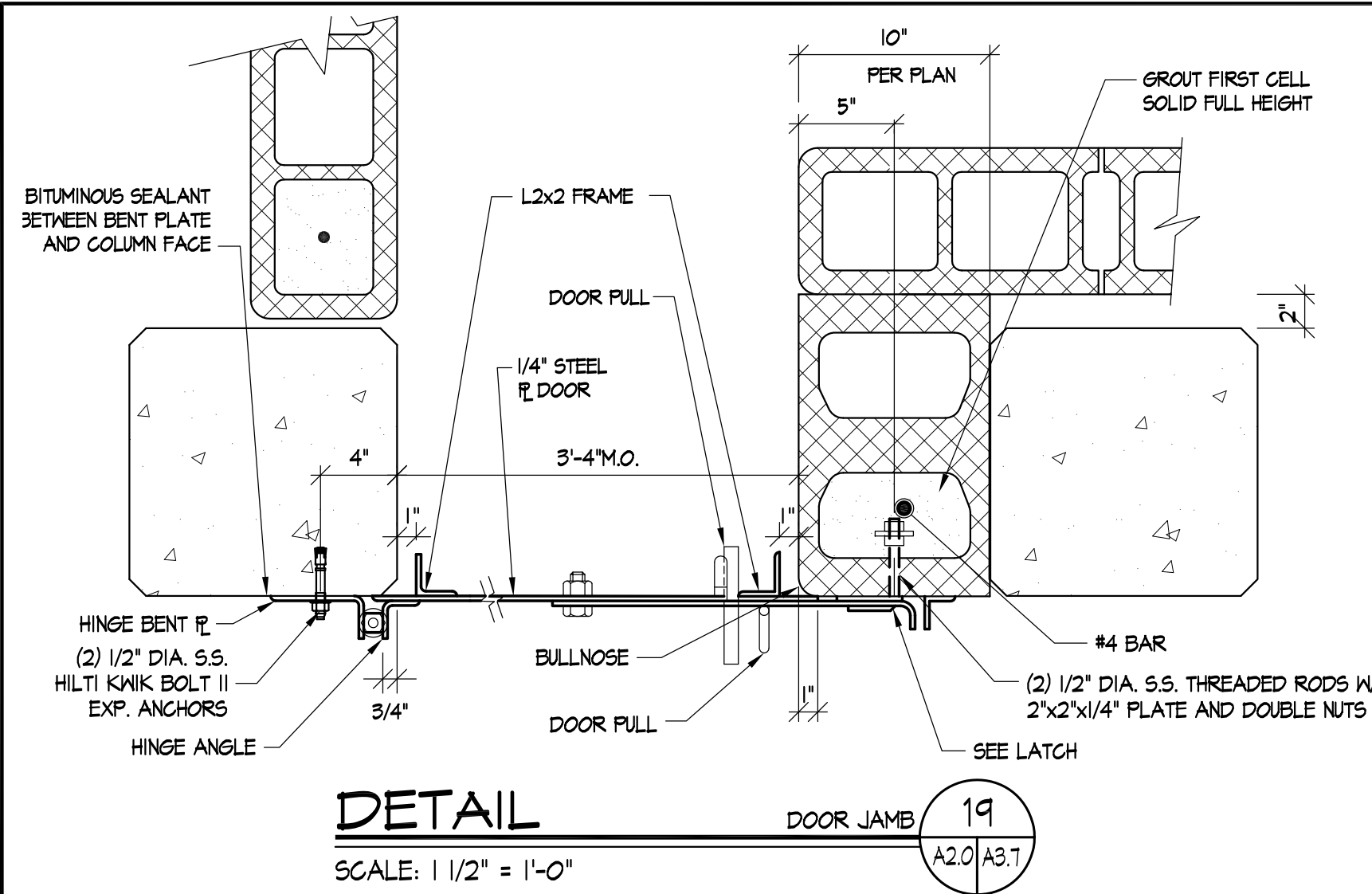
Sheet Title
DOOR & WINDOW ELEVATIONS & DETAILS
CITY/COUNTY VIRGINIA
Drawn By: SJS Approved By: MAM
Checked By: SMF Date: 04/11/13

PROFESSIONAL SEAL

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WINDOW SCHEDULE

WINDOW NO.	# OF WINDOW	OPENING				REMARKS	
		MASONRY OPENING SIZE		JAMB	SILL		HEAD
		WIDTH	HEIGHT				
101-H	1	3'-4"	4'-0"	21/A3.7	22/A3.7	23/A3.7	
104-H	1	3'-4"	4'-0"	21/A3.7	22/A3.7	23/A3.7	
104-2	1	3'-4"	4'-0"	21/A3.7	22/A3.7	23/A3.7	
201-H	1	3'-4"	4'-0"	21/A3.7	22/A3.7	23/A3.7	
204-H	1	3'-4"	4'-0"	21/A3.7	22/A3.7	23/A3.7	

DOOR SCHEDULE

DOOR NO.	# OF DOORS	OPENING				REMARKS	
		MASONRY OPENING SIZE		JAMB	SILL		HEAD
		WIDTH	HEIGHT				
100-I	1	3'-4"	6'-8"	14/A3.7	25/A3.7	23/A3.7	
102-I	1	3'-4"	7'-0"	20/A3.7	24/A3.7	23/A3.7	
103-I	1	3'-4"	7'-0"	20/A3.7	25/A3.7	23/A3.7	
105-I	1	3'-4"	7'-0"	20/A3.7	25/A3.7	23/A3.7	
203-I	1	3'-4"	7'-0"	20/A3.7	25/A3.7	23/A3.7	
203-2	1	3'-4"	7'-0"	20/A3.7	25/A3.7	23/A3.7	
203-3	1	3'-4"	7'-0"	20/A3.7	25/A3.7	23/A3.7	
204-I	1	3'-4"	7'-0"	20/A3.7	25/A3.7	23/A3.7	

NOTE: INTERIOR OPENINGS WITHOUT DOOR SHALL HAVE MASONRY OPENING HEIGHT OF 7'-0" A.F.F.

ROOM FINISH SCHEDULE

ROOM NAME/NUMBER	FLOOR FINISH	WALL FINISH	CEILING FINISH	NOTES
101	CONCRETE W/ BROOM FINISH	CMU	CONCRETE	
102 (BURN ROOM)	LOOSE-LAID FIRE BRICK ON STEEL TROWELED CONCRETE SLAB	THERMAL LINING & CMU	THERMAL LINING	SEE SPECS FOR MEMBRANE ON TOP OF SLAB, BELOW FIRE BRICK
103	CONCRETE W/ BROOM FINISH	CMU	CONCRETE	
104	CONCRETE W/ BROOM FINISH	CMU	CONCRETE	
TEMPERATURE MONITORING ROOM	CONCRETE W/ BROOM FINISH	CMU	CONCRETE	
201 (BURN ROOM)	LOOSE-LAID FIRE BRICK ON STEEL TROWELED CONCRETE SLAB	THERMAL LINING & CMU	THERMAL LINING	SEE SPECS FOR MEMBRANE ON TOP OF SLAB, BELOW FIRE BRICK
202	CONCRETE W/ BROOM FINISH	CMU	CONCRETE	
203	CONCRETE W/ BROOM FINISH	CMU	CONCRETE	
204	CONCRETE W/ BROOM FINISH	CMU	CONCRETE	
INTERIOR STAIRS AND LANDINGS	CONCRETE W/ BROOM FINISH	CMU	CONCRETE	
EXTERIOR CONCRETE STAIRS AND LANDINGS	CONCRETE W/ BROOM FINISH	N/A	N/A	
EXTERIOR STEEL STAIRS AND LANDINGS	GALVANIZED STEEL SAFETY GRATING	N/A	N/A	
EXTERIOR APRON AROUND BUILDING	CONCRETE W/ PAVEMENT FINISH	N/A	N/A	
HIGH AND LOW ROOFS	CONCRETE W/ BROOM FINISH	N/A	N/A	

FINISH SCHEDULE NOTES:
1. ALL EXPOSED CONCRETE AND CMU SURFACES ARE UNPAINTED.
2. SEE SHEET A3.5 AND SPECIFICATION FOR THERMAL LINING.
3. WHERE WALL FINISH IS "THERMAL LINING AND CMU", SEE FLOOR PLANS FOR WALL LOCATION OF THERMAL LINING.

PRIME PROFESSIONAL FIRM LOGO

Project Title
**COMMONWEALTH OF VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL**

SUB-CONSULTANT'S LOGO



**Department
of
Fire Programs**

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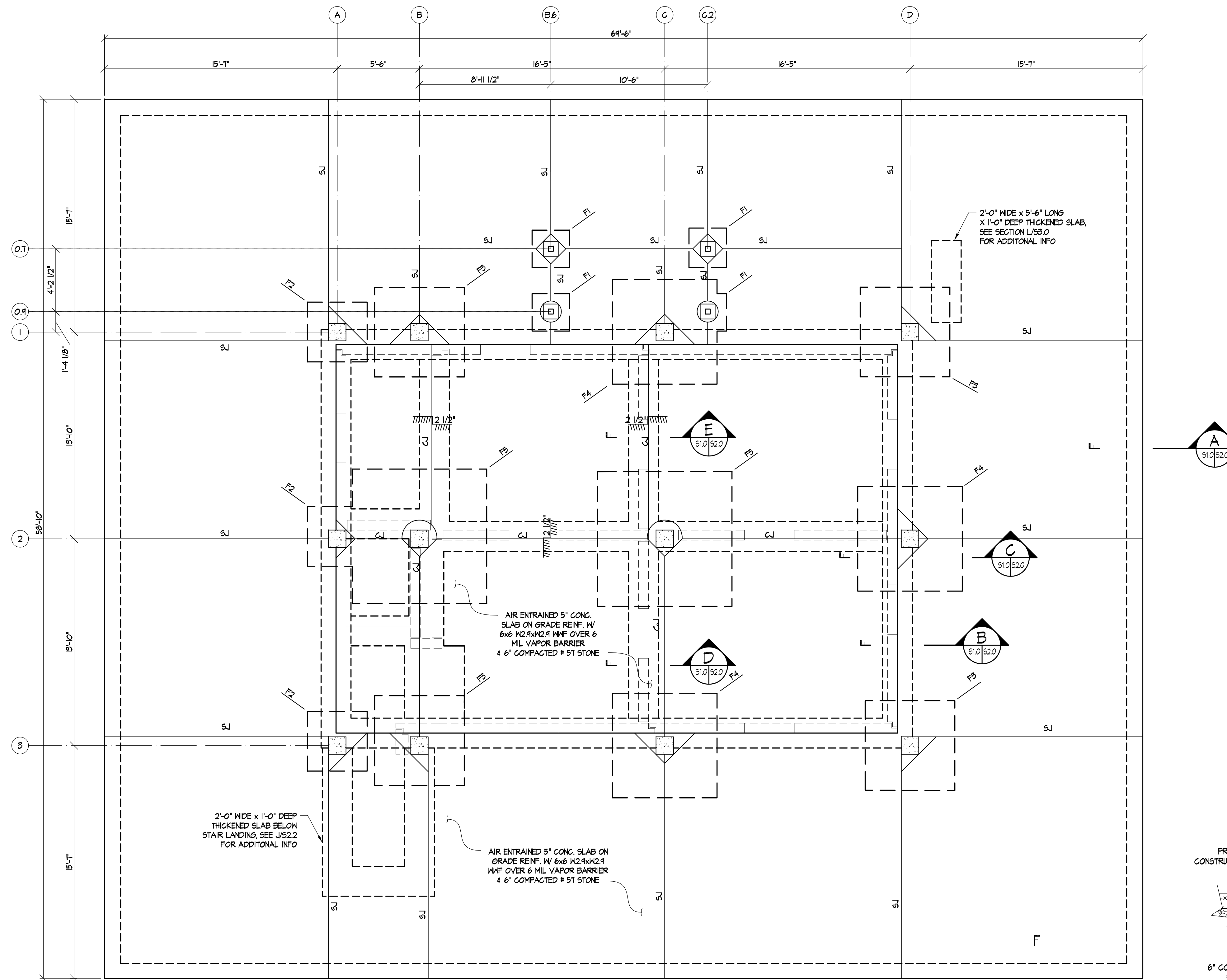
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Sheet Title
**HEAD, SILL & JAMB DETAILS
& WINDOW, DOOR, & FINISH
SCHEDULES**
CITY/COUNTY VIRGINIA
Drawn By: SJS Approved By: MAM
Checked By: SMF Date: 04/11/13

PROFESSIONAL SEAL

Sheet No.
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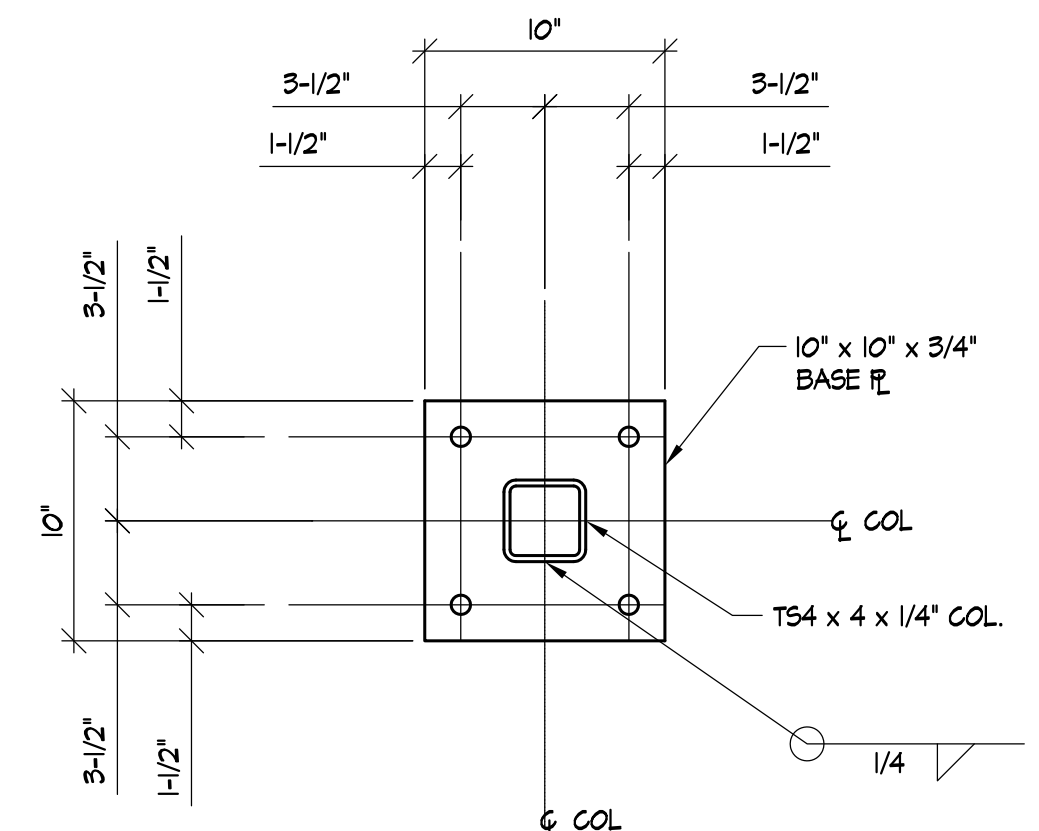


FOUNDATION PLAN

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

NOTES:

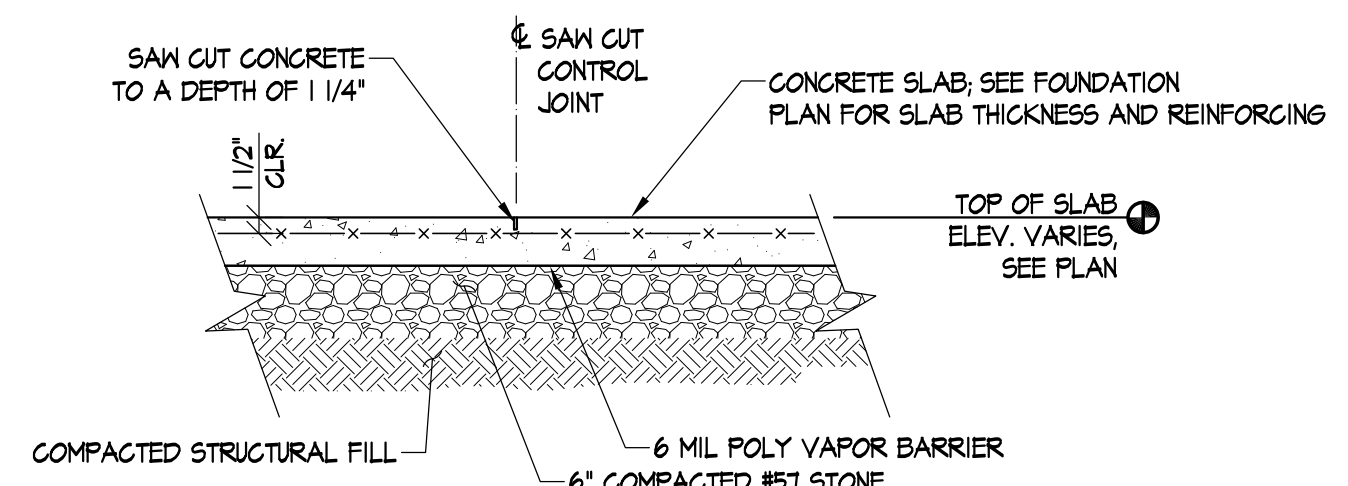
- 1. CAST SCUFPERS AND DOORWAY WELD PLATES INTO SLAB PER FLOOR PLAN AND DETAILS.
- 2. SEE SECTIONS & DETAILS FOR INFORMATION ON THICKENED SLABS AND TURN DOWNS.
- 3. SEE SHEET A1.0 FOR SLAB ELEVATIONS.



DETAIL

BASE PLATE

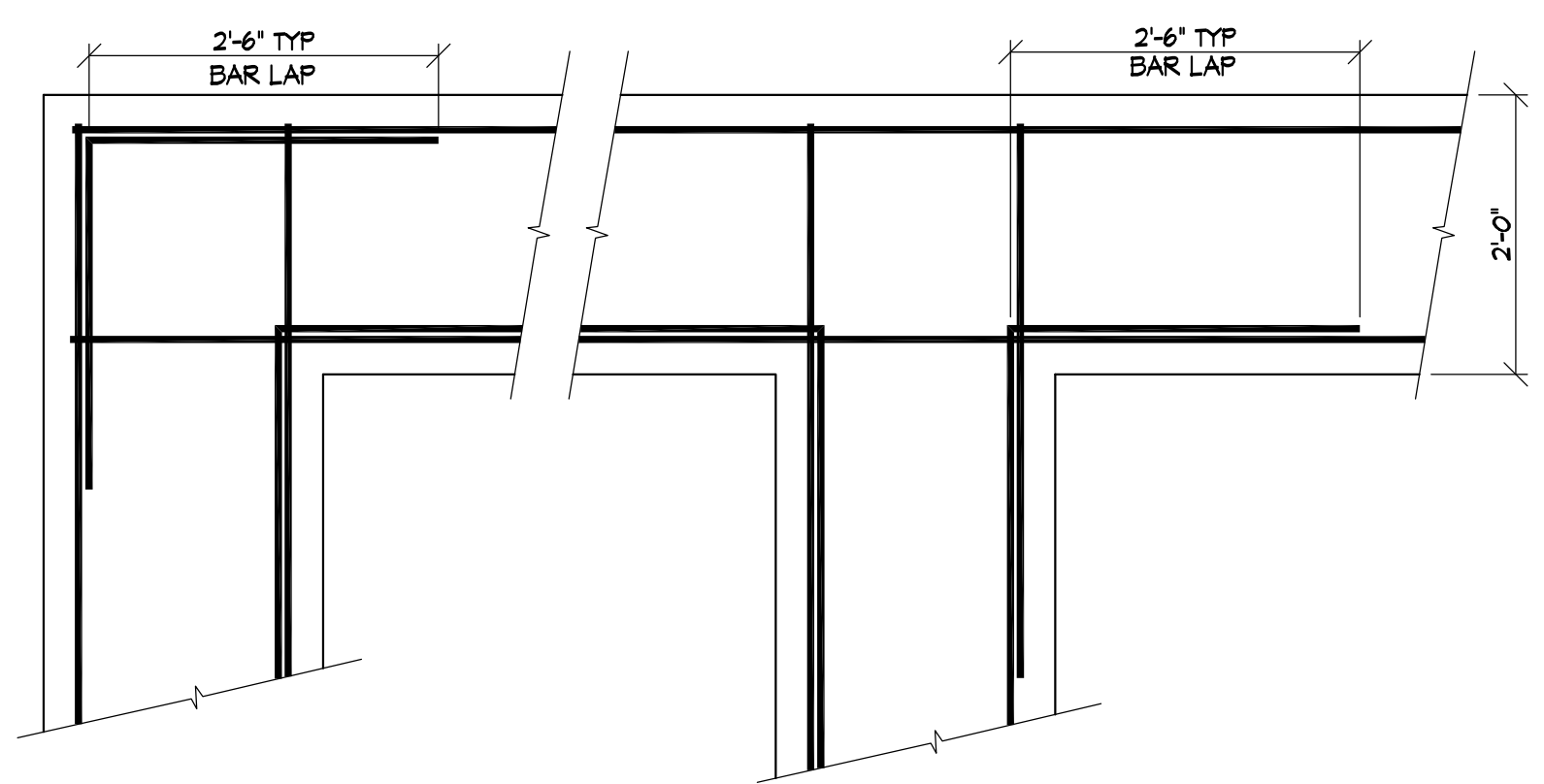
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DETAIL

TYP. SAW CUT JOINT

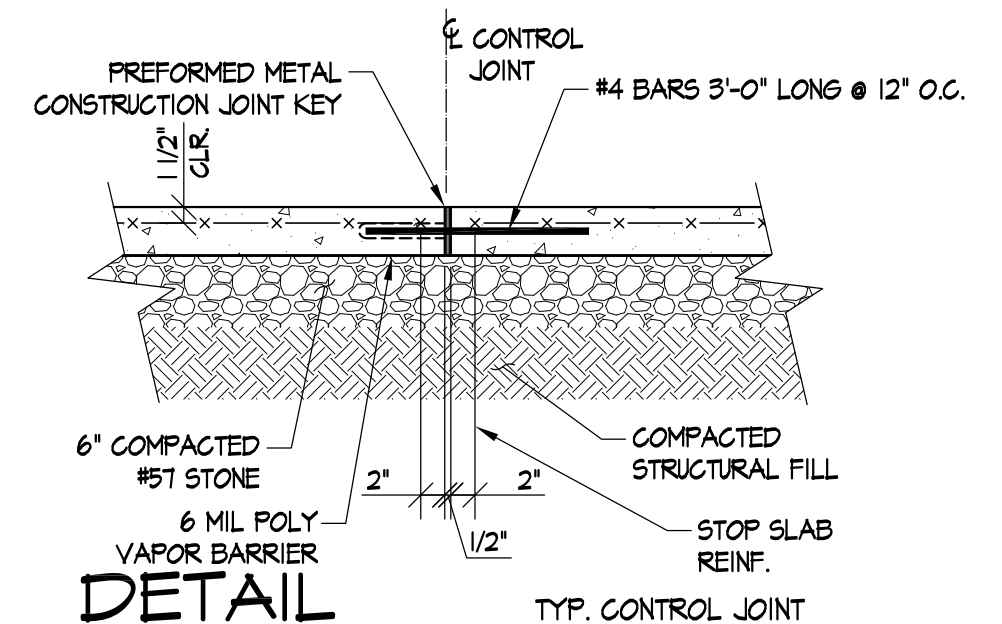
SCALE: 3/4" = 1'-0"



DETAIL

TYP. REINF. FOR FOOTING CORNER

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



DETAIL

TYP. CONTROL JOINT

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

COLUMN FOOTING SCHEDULE						
MARK	SIZE	DEPTH	BOTTOM REINFORCING	PEDESTAL SIZE	DOWEL	REMARKS
F1	2'-6" x 2'-6"	1'-0"	(3) #5 E.W.	12" x 12"	(4) #6	#3 @ 6" O.C.
F2	4'-0" x 4'-0"	1'-0"	(5) #5 E.W.	---	---	---
F3	6'-0" x 6'-0"	1'-0"	(6) #5 E.W.	---	---	---
F4	7'-0" x 7'-0"	1'-2"	(7) #5 E.W.	---	---	---
F5	9'-0" x 9'-0"	1'-6"	(12) #5 E.W.	---	---	---

PRIME PROFESSIONAL FIRM LOGO

Project Title
COMMONWEALTH OF VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

SUB-CONSULTANT'S LOGO



Department of Fire Programs

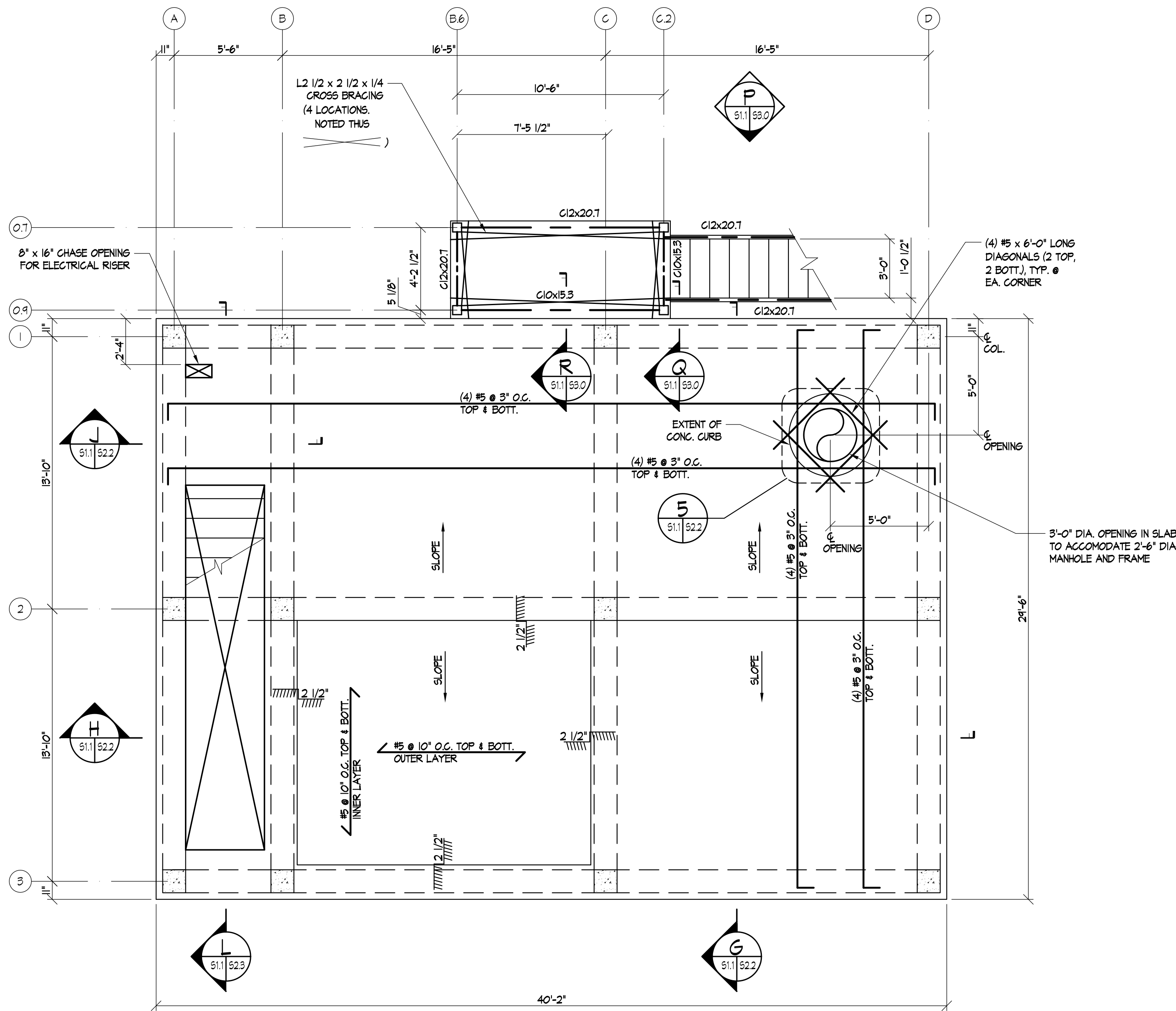
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FOUNDATION PLAN AND DETAILS
CITY/COUNTY VIRGINIA
Drawn By: SJS Approved By: MAM
Checked By: SMF Date: 04/11/13

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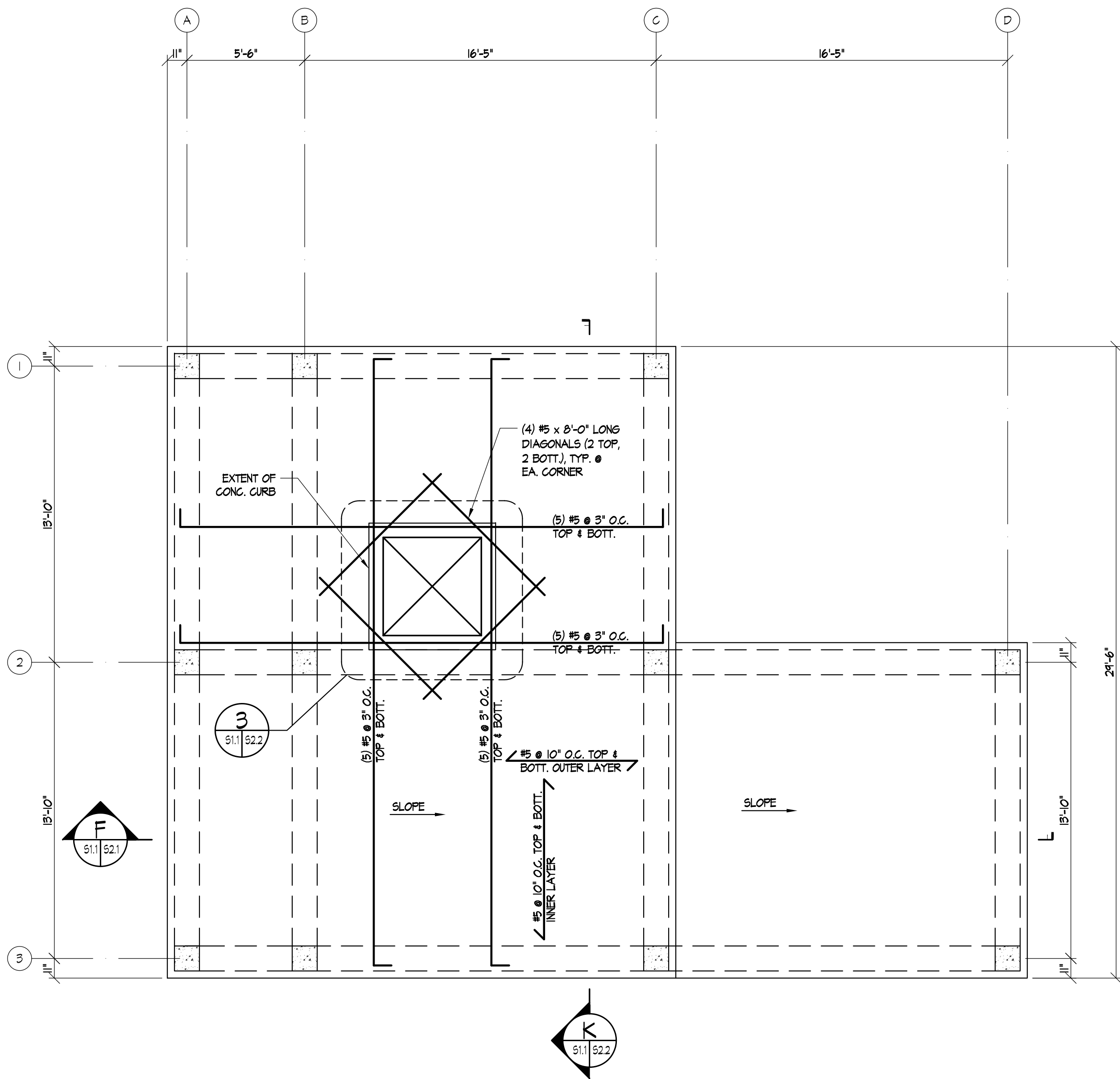


SECOND FLOOR/LOW ROOF FRAMING PLAN

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

NOTES:

1. SLAB THICKNESS SHALL BE 4" THICK MINIMUM WHERE FIREBRICK IS PRESENT & 11 1/2" THICK MINIMUM WHERE NO FIREBRICK IS TO BE INSTALLED. SLOPE TOP SURFACES ONLY.
2. SLAB REINFORCING SHALL BE #5 AT 10" O.C. CONTINUOUS BOTH WAYS TOP AND BOTTOM, INCLUDING INTERIOR STAIR LANDING.
3. OUTERMOST REINFORCING LAYERS SHALL BE IN THIS DIRECTION IN PLAN:
4. SEE PLAN FOR ADDITIONAL REINFORCING.
5. SEE SHEET A1.0 FOR CONCRETE SLAB ELEVATIONS, STEPS, AND SLOPE.
6. HOOK ENDS OF ALL TOP AND BOTT. BARS THAT END AT EDGE OF SLAB OR OPENINGS.
7. CAST SCUPPERS AND DOORWAY WELD PLATES INTO SLAB PER FLOOR PLAN DWG I, SHEET A2.1 AND DETAILS.
8. TOP SURFACE OF EXTERIOR FLAT ROOF SHALL BE SEALED WITH A CEMENTITIOUS COATING SUCH AS SIKATOP SEAL 107.



HIGH ROOF FRAMING PLAN

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

NOTES:

1. SLAB THICKNESS SHALL BE 4" SLOPE TOP & BOTTOM SURFACES TO MAINTAIN THICKNESS.
2. SLAB REINFORCING SHALL BE #5 AT 10" O.C. CONTINUOUS BOTH WAYS TOP AND BOTT.
3. OUTERMOST REINFORCING LAYERS SHALL BE IN THIS DIRECTION IN PLAN:
4. SEE PLAN FOR ADDITIONAL REINFORCING.
5. SEE SHEET A2.1 FOR CONCRETE SLAB ELEVATIONS, STEPS, AND SLOPE.
6. HOOK ENDS OF ALL TOP AND BOTTOM BARS THAT END AT EDGES OF SLAB OR OPENINGS.
7. TOP SURFACE OF EXTERIOR FLAT ROOF SHALL BE SEALED WITH A CEMENTITIOUS COATING SUCH AS SIKATOP SEAL 107.

PRIME PROFESSIONAL FIRM LOGO

Project Title

COMMONWEALTH OF VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

SUB-CONSULTANT'S LOGO



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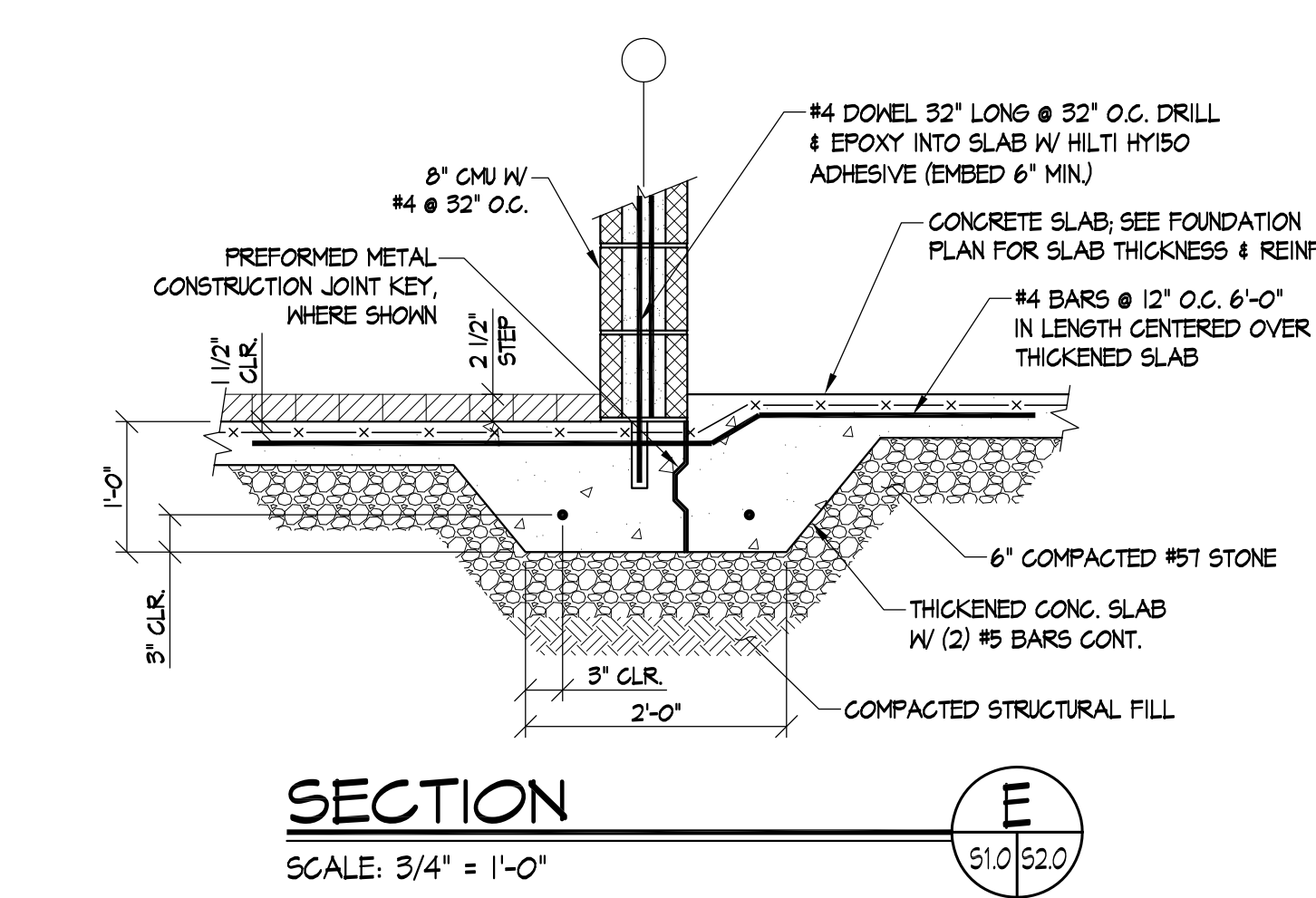
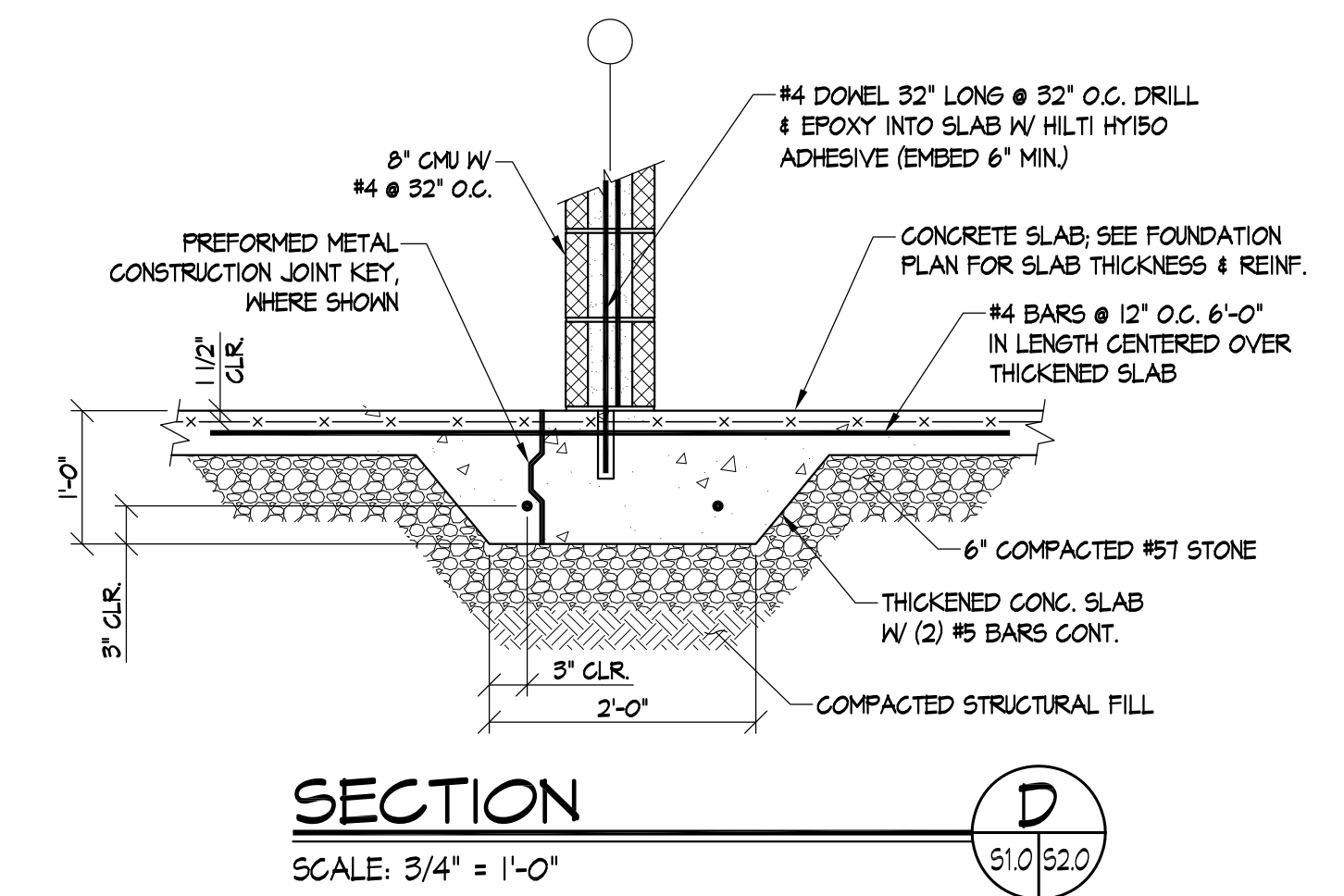
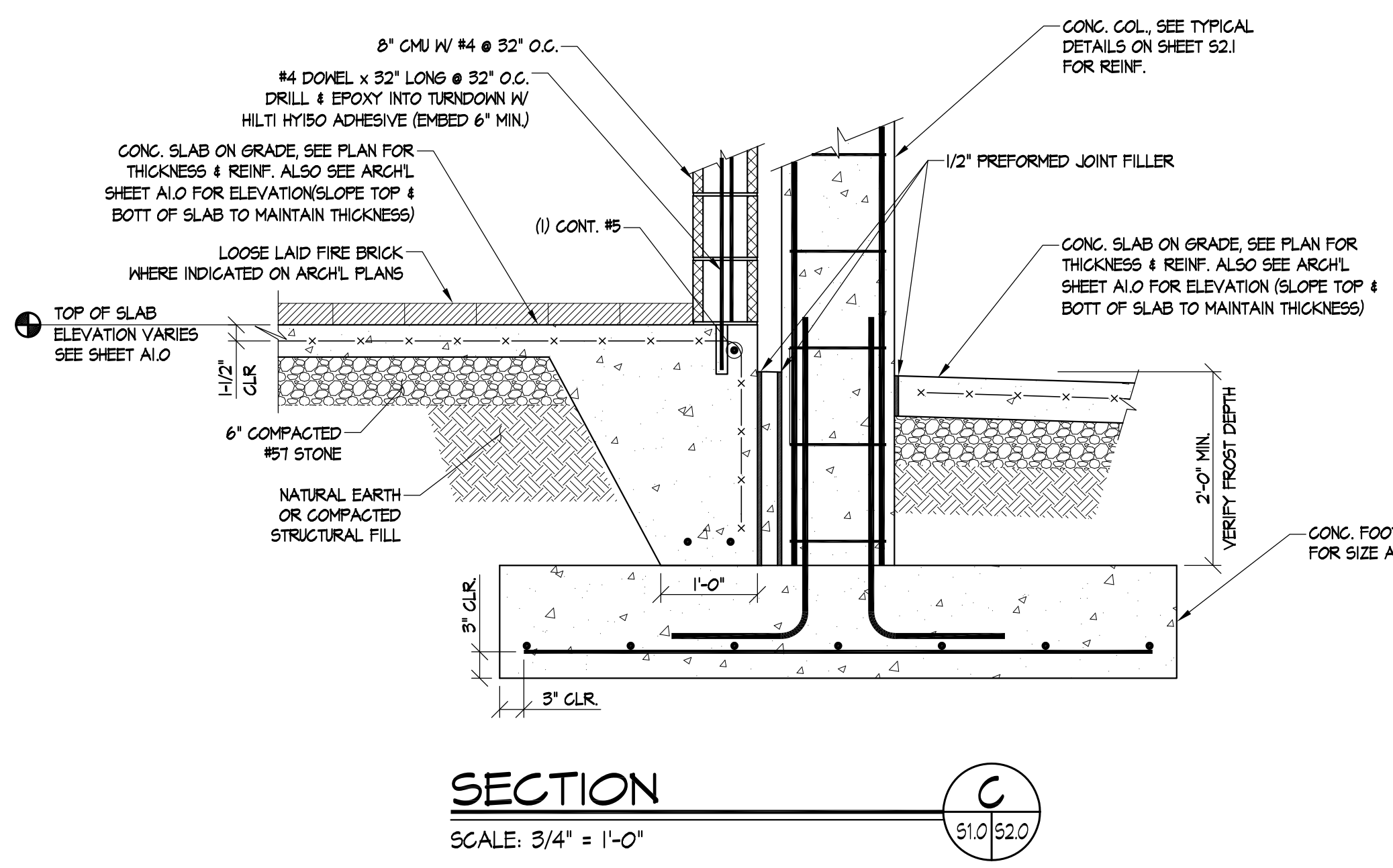
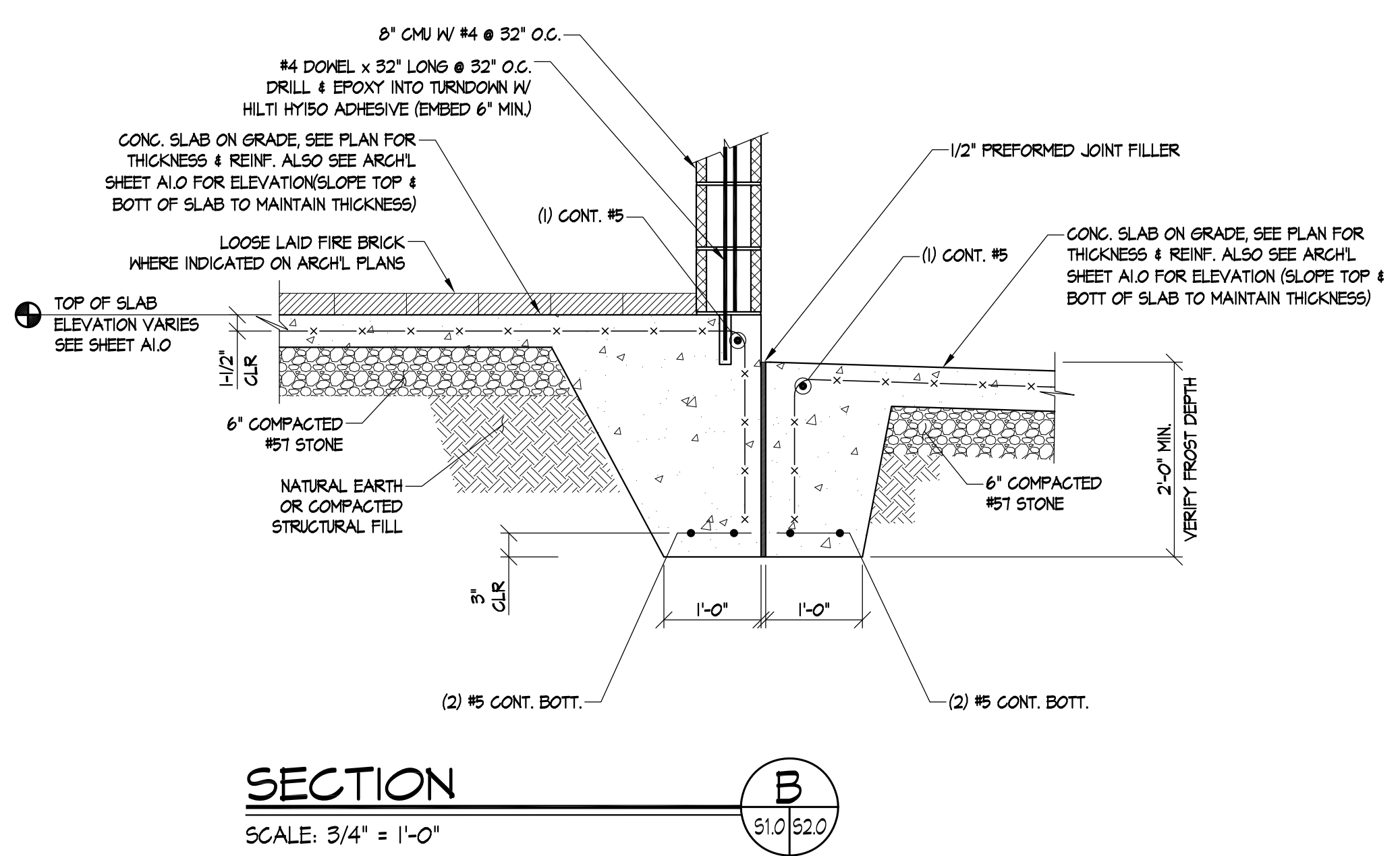
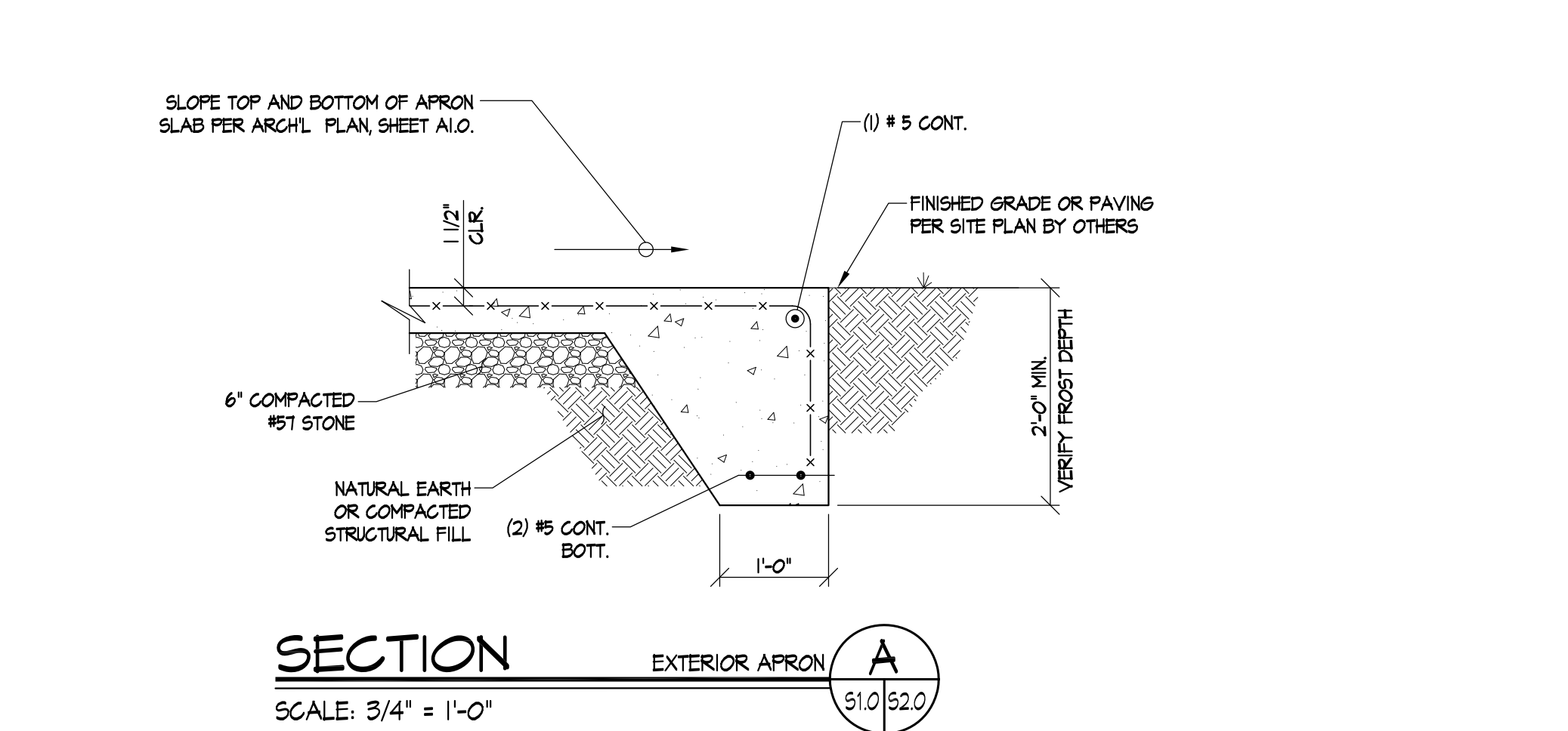
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SECOND FLOOR/LOW ROOF AND HIGH ROOF FRAMING PLANS	
CITY/COUNTY	VIRGINIA
Drawn By: SJS	Approved By: MAM
Checked By: SMF	Date: 04/11/13

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PRIME PROFESSIONAL
FIRM LOGO

Project Title
COMMONWEALTH OF
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PROTOTYPE 1
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Sheet Title
FOUNDATION SECTIONS

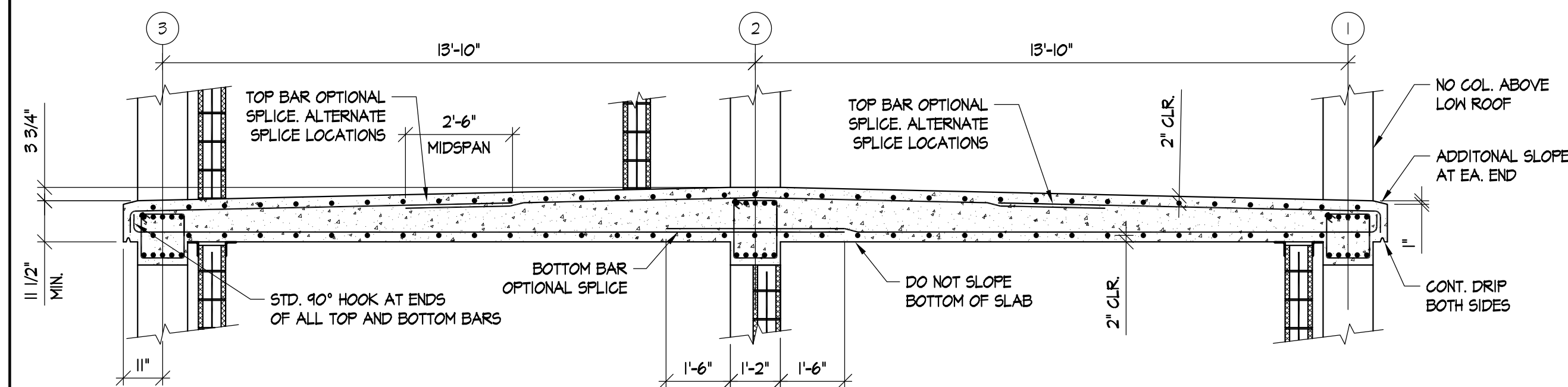
CITY/COUNTY VIRGINIA

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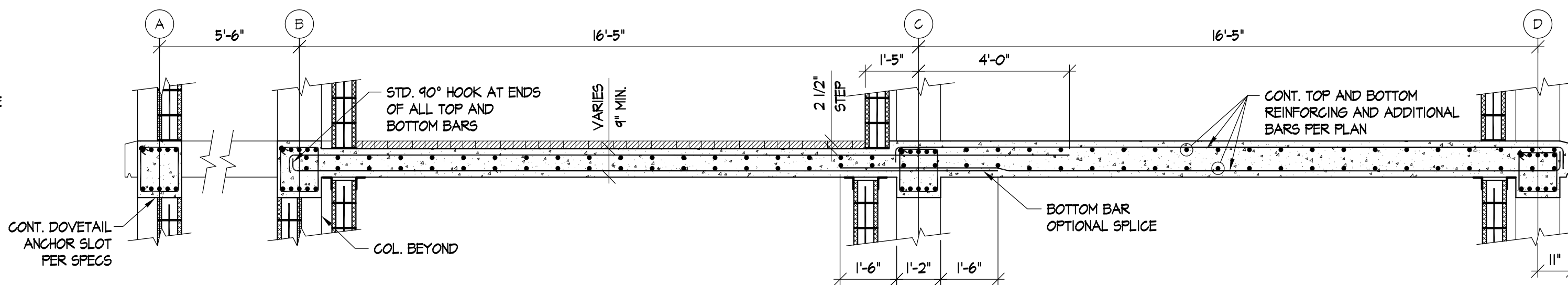
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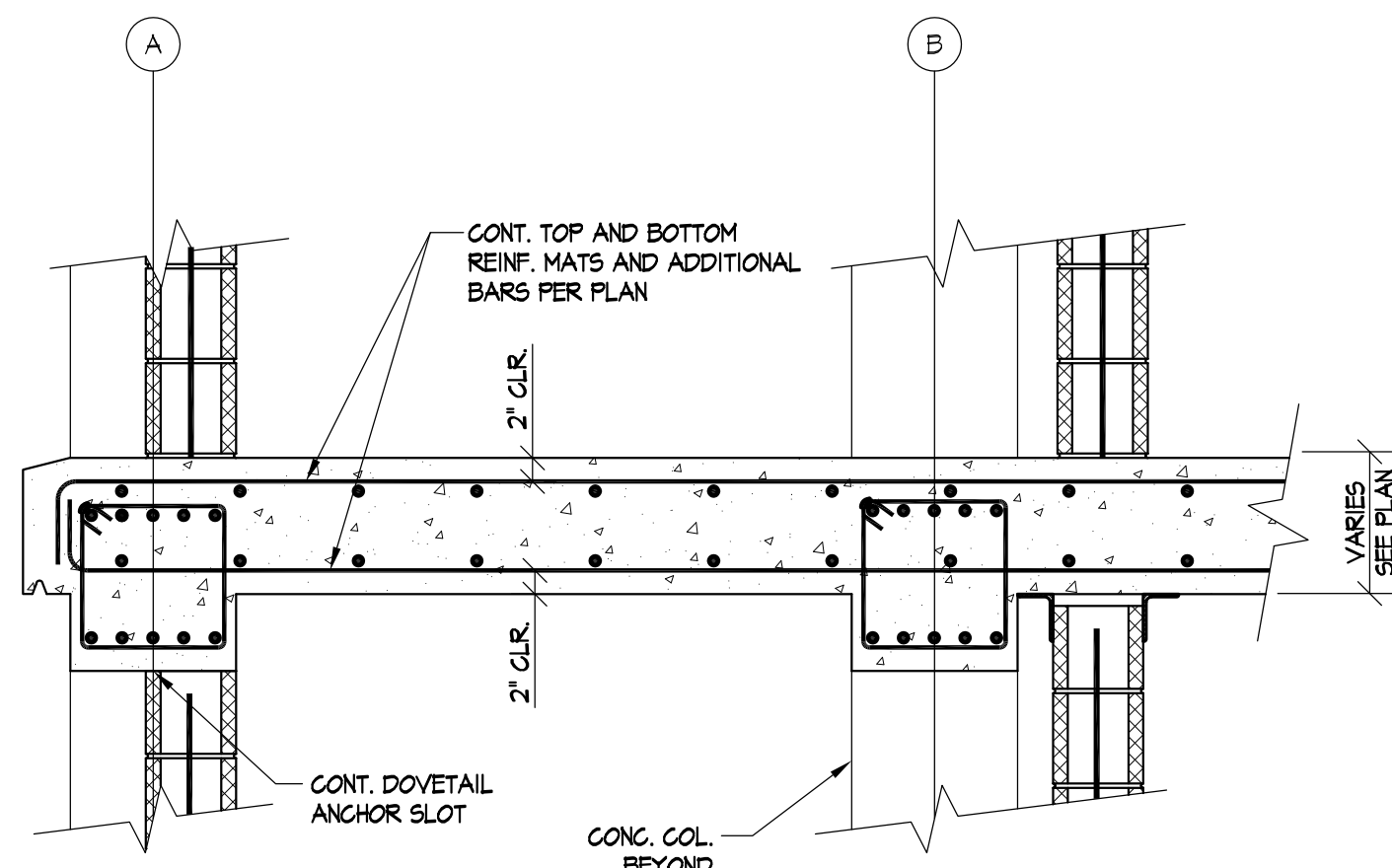
Sheet No.
S2.0
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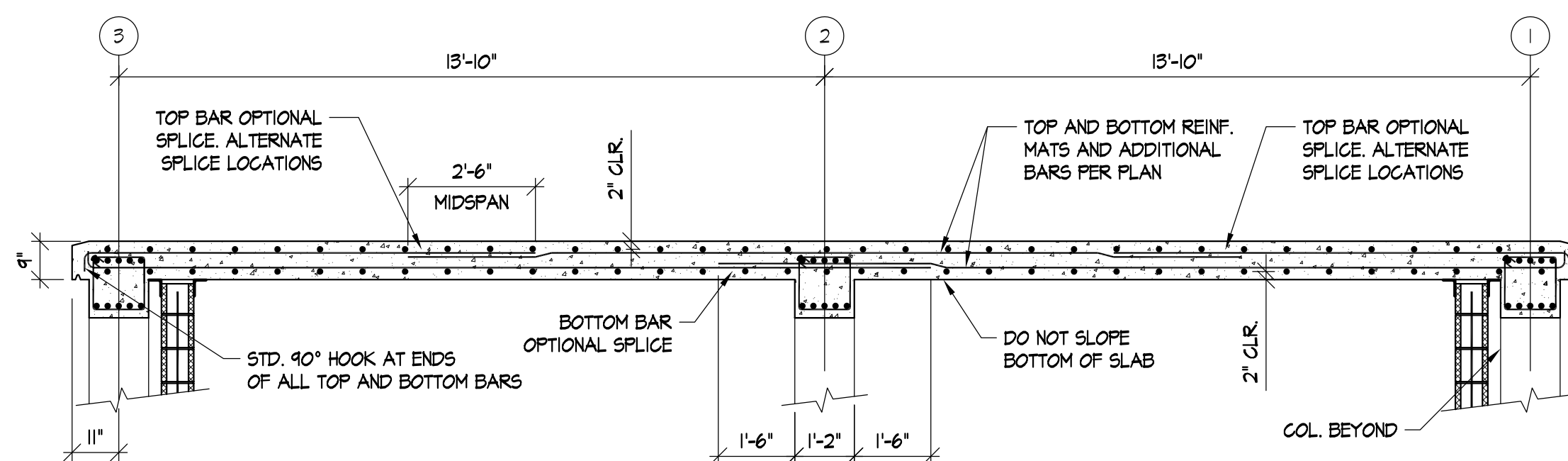
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SECOND FLOOR SLAB
SCALE: 3/8" = 1'-0"



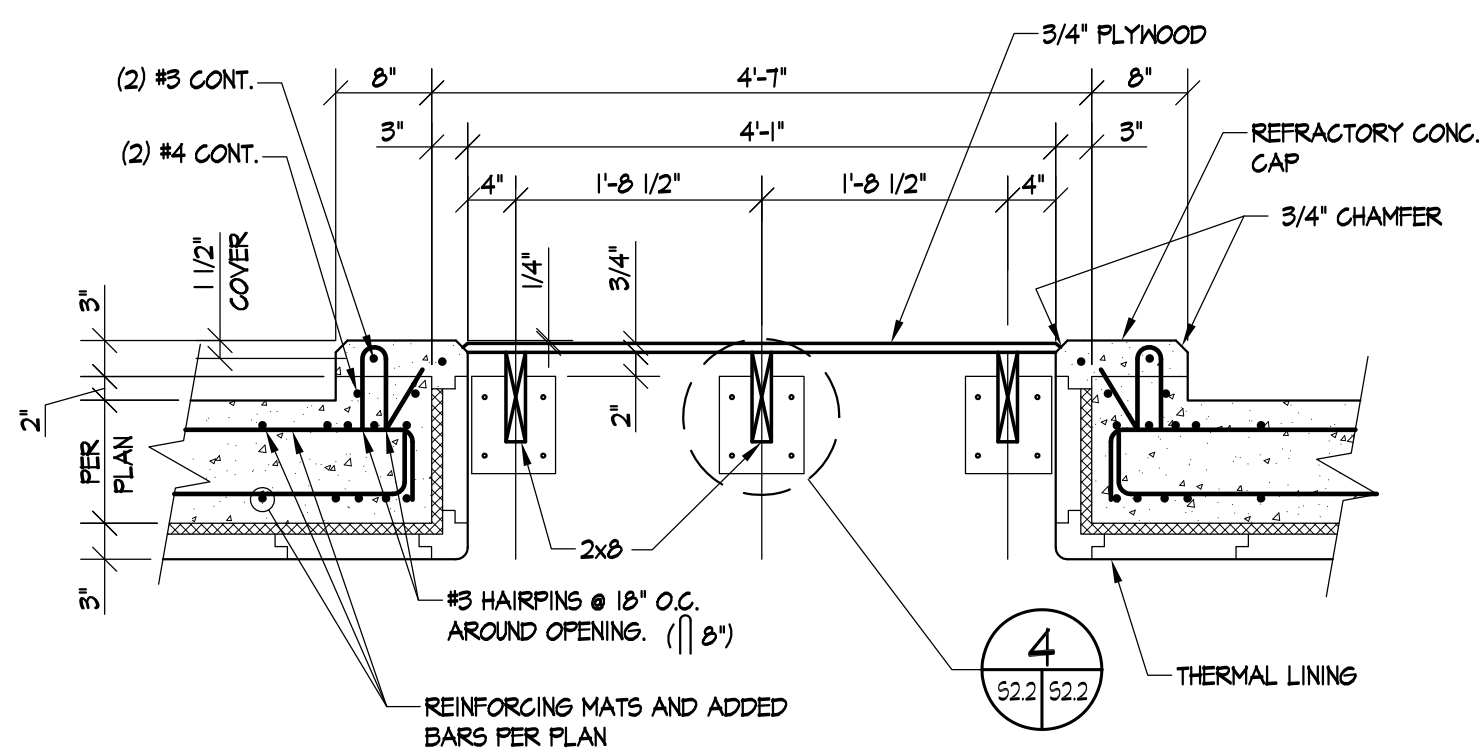
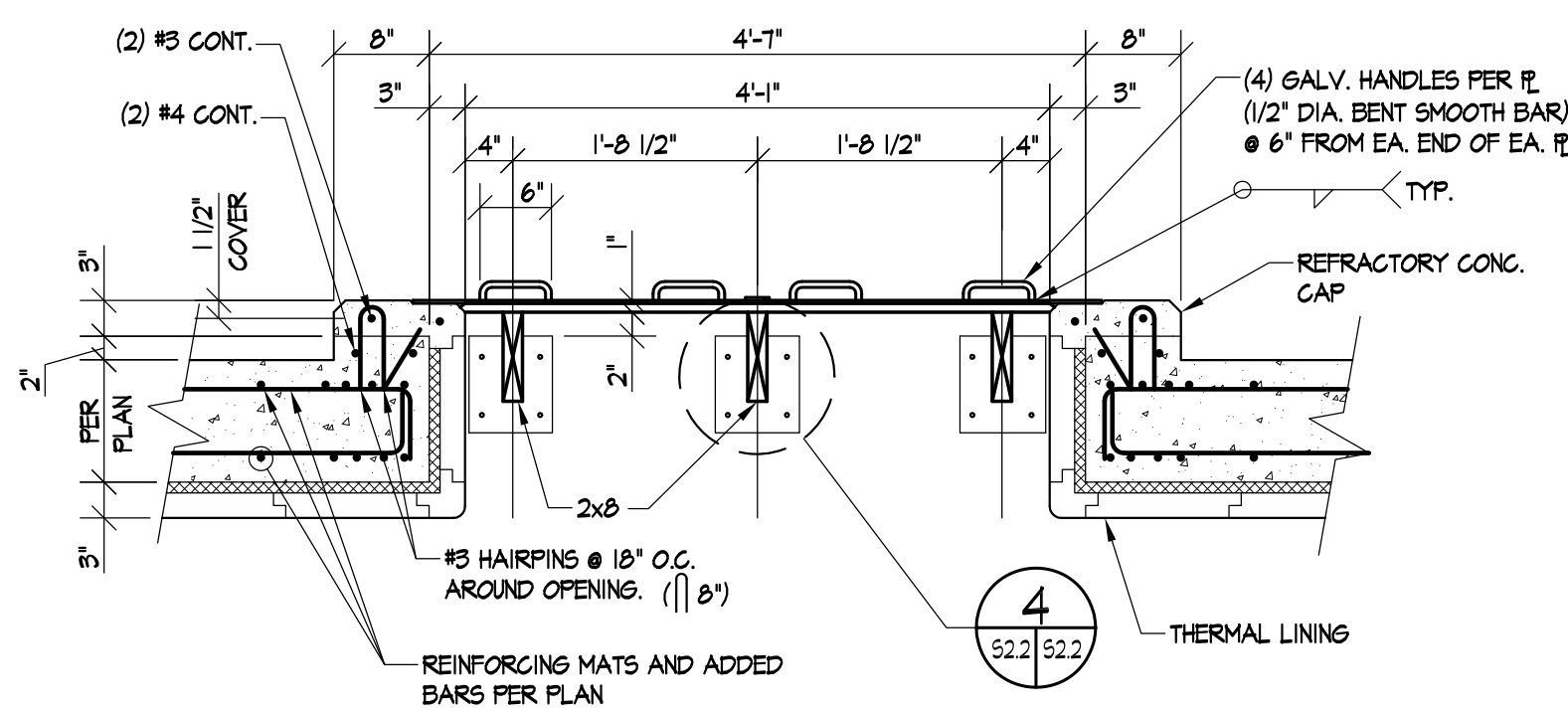
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SECOND FLOOR SLAB
SCALE: 3/8" = 1'-0"



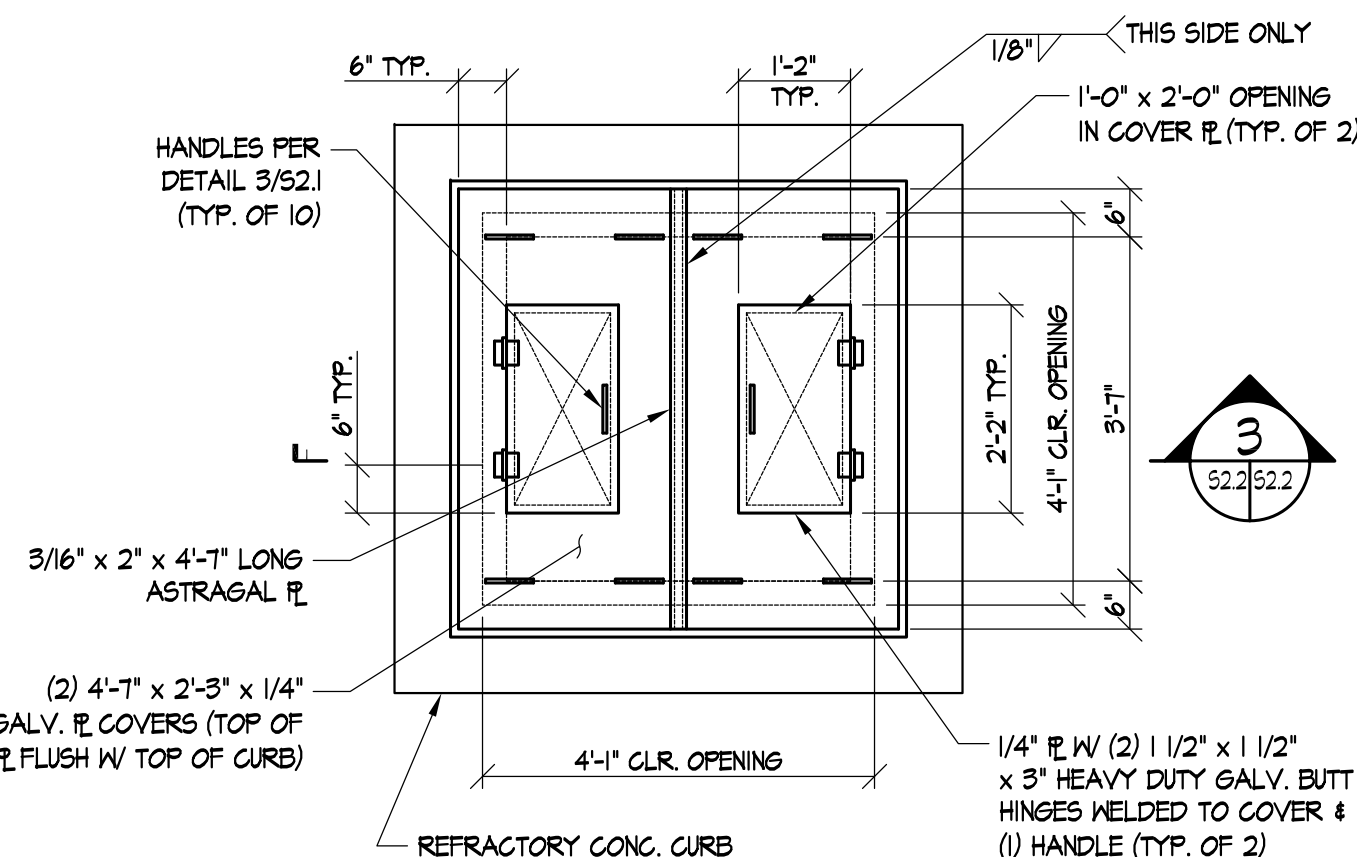
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SECOND FLOOR STAIR LANDING
SCALE: 3/4" = 1'-0"



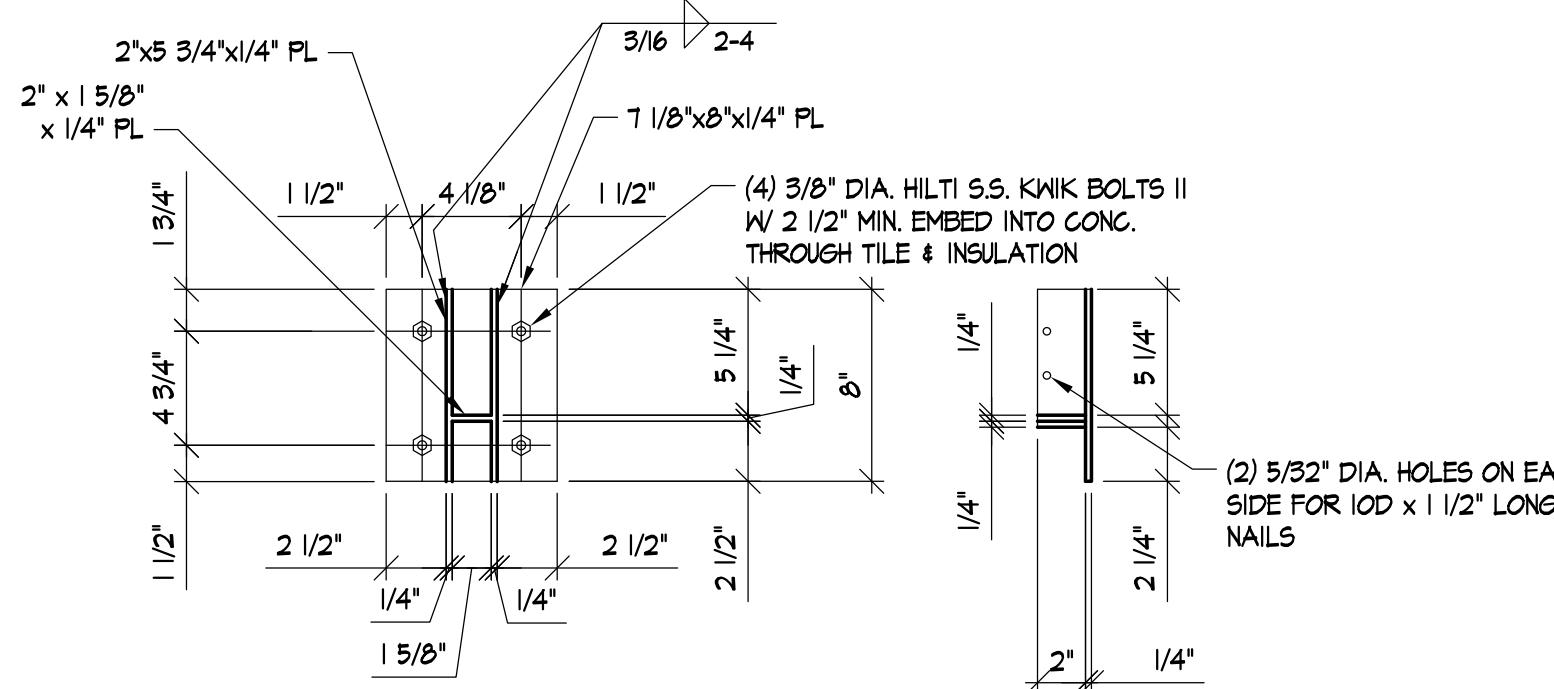
SECTION K
ROOF SLAB
SCALE: 3/8" = 1'-0"



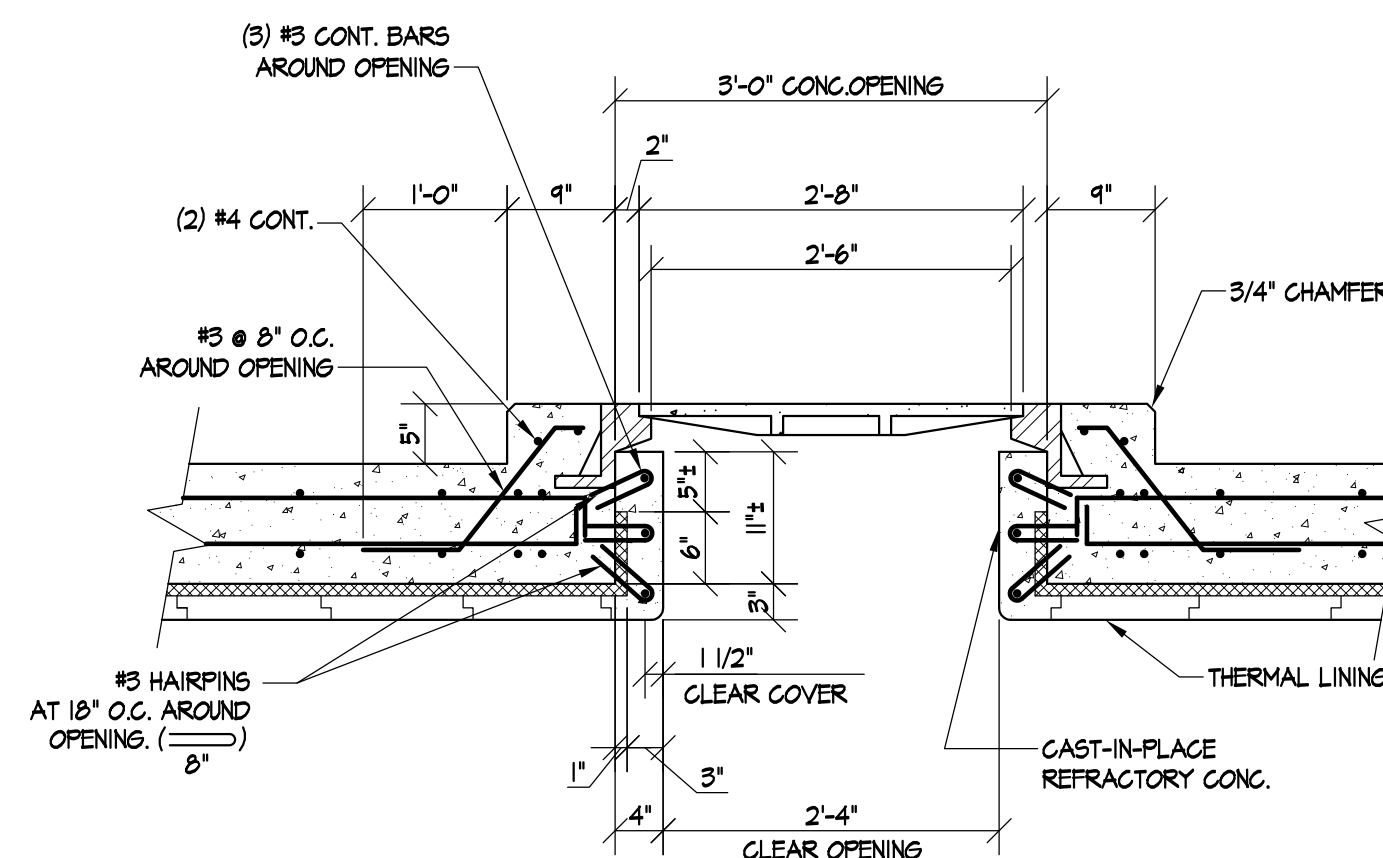
DETAIL 3
CHOP OUT OPENING
SCALE: 3/4" = 1'-0"



DETAIL 3
CHOP OUT OPENING COVER
SCALE: 1/2" = 1'-0"



DETAIL 4
2x8 HANGER
SCALE: 1 1/2" = 1'-0"



DETAIL 5
MANHOLE
SCALE: 3/4" = 1'-0"

PRIME PROFESSIONAL
FIRM LOGO

Project Title
COMMONWEALTH OF
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BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

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Sheet Title
CONCRETE SLAB SECTIONS,
MANHOLE & CHOPOUT
SECTIONS & DETAILS
CITY/COUNTY VIRGINIA
Drawn By: SJS Approved By: MAM
Checked By: SMF Date: 04/11/13

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Project Title

COMMONWEALTH OF
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BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

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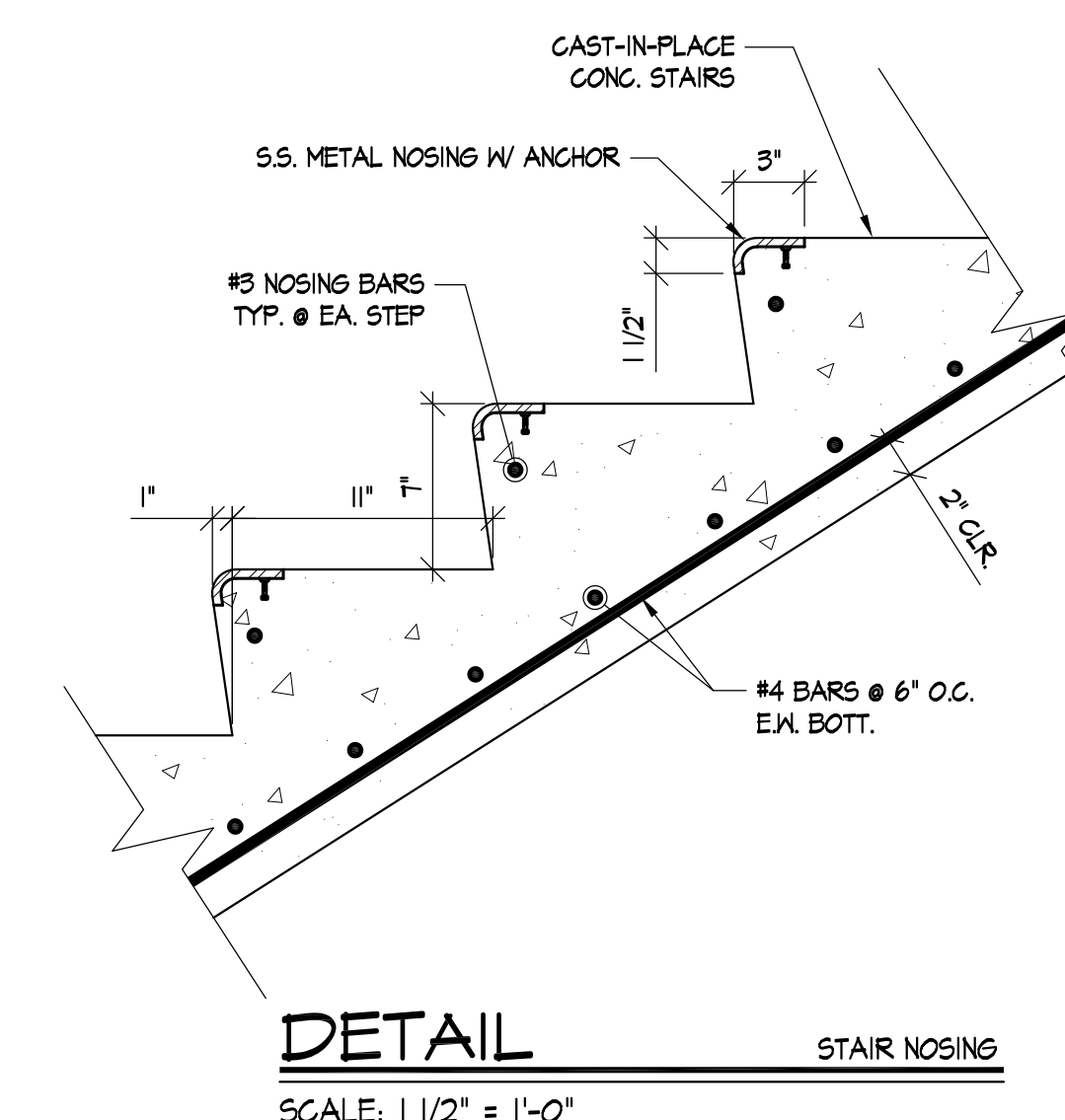
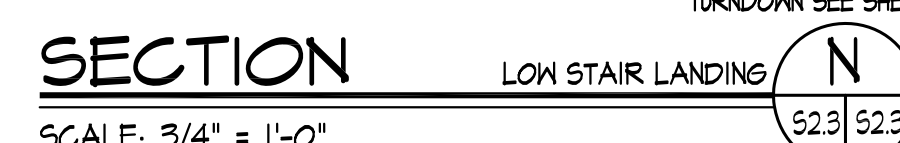
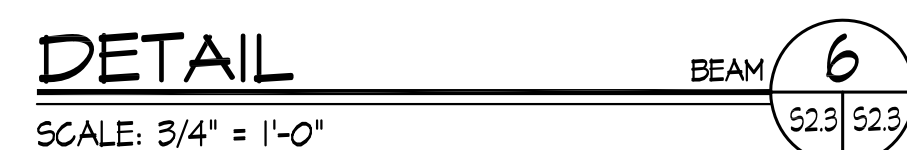
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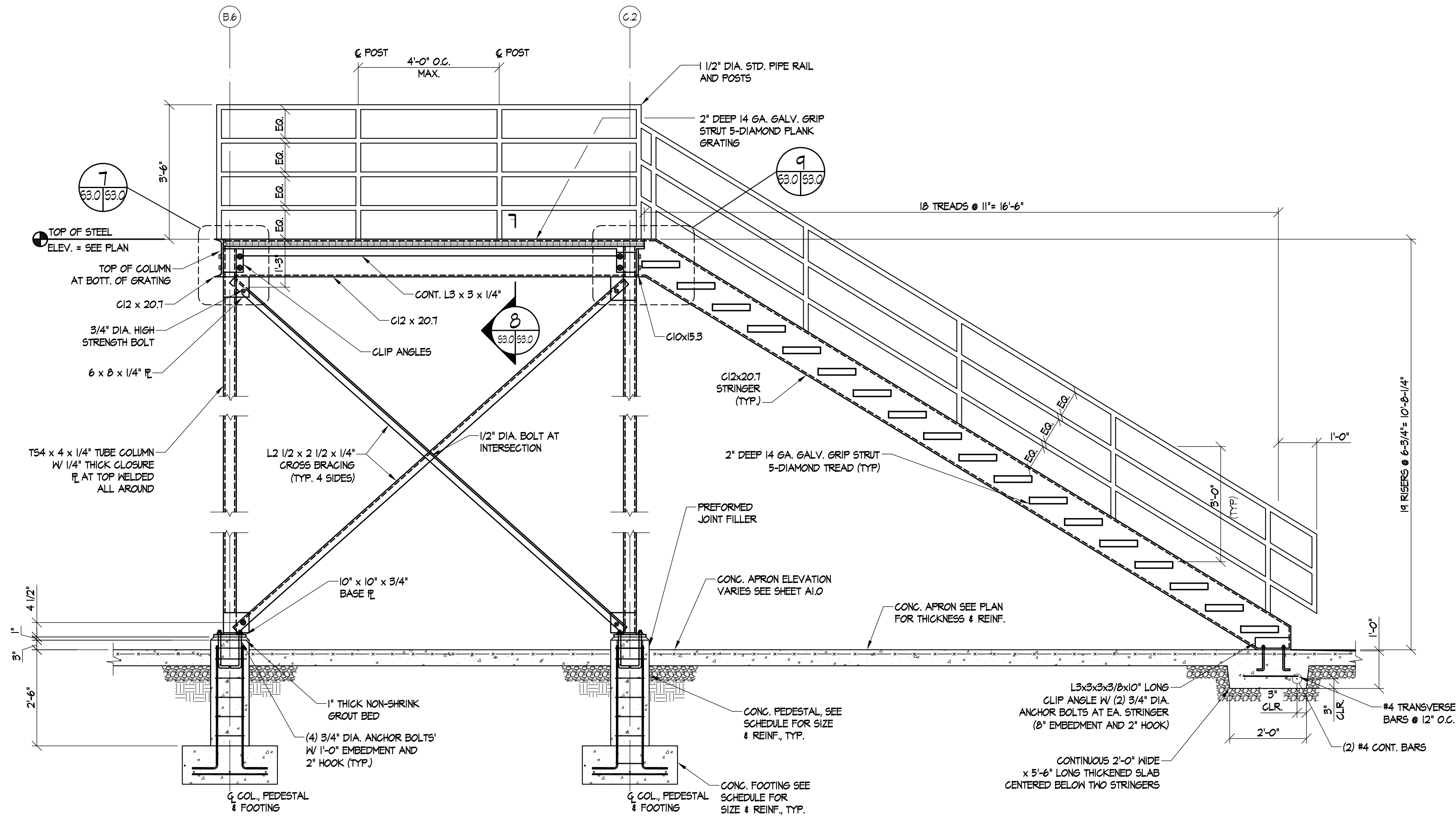
**CONCRETE STAIR PLAN,
SECTIONS AND DETAILS**

CITY/COUNTY		VIRGINIA	
Drawn By:	SJS	Approved By:	MAM
Checked By:	SMF	Date:	04/11/13

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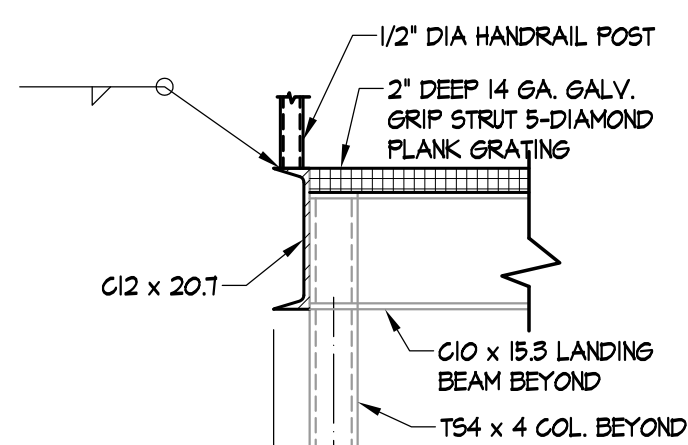




ELEVATION

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

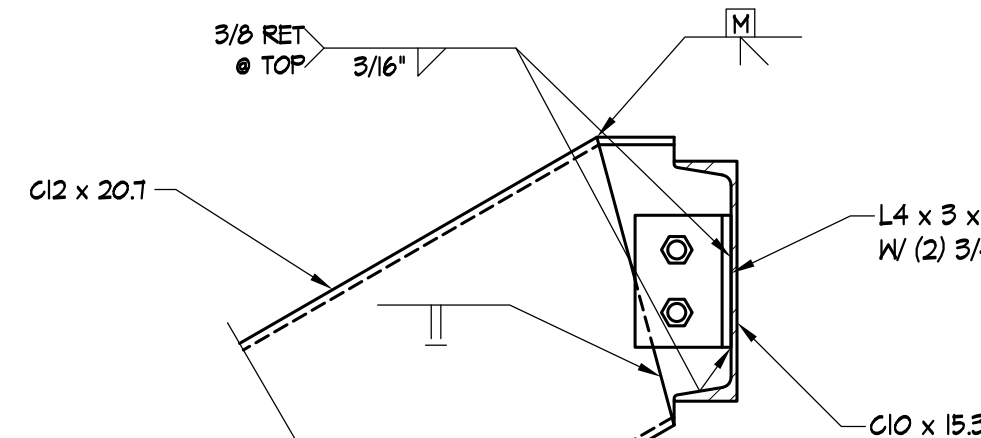
EXTERIOR STAIRS



DETAIL

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

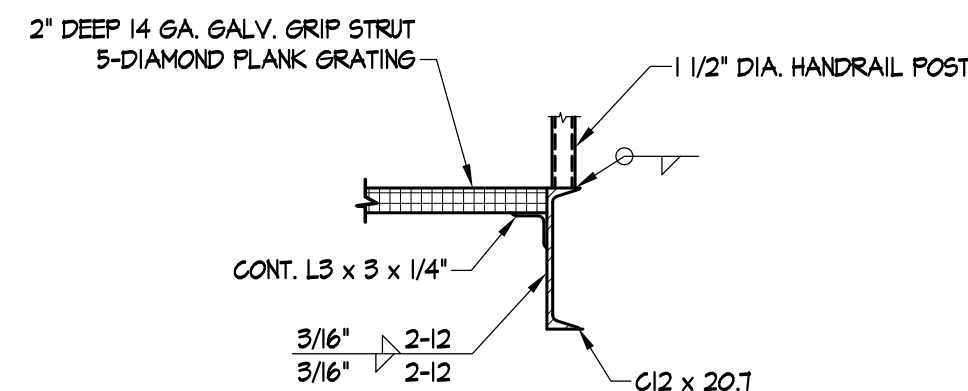
7



DETAIL

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

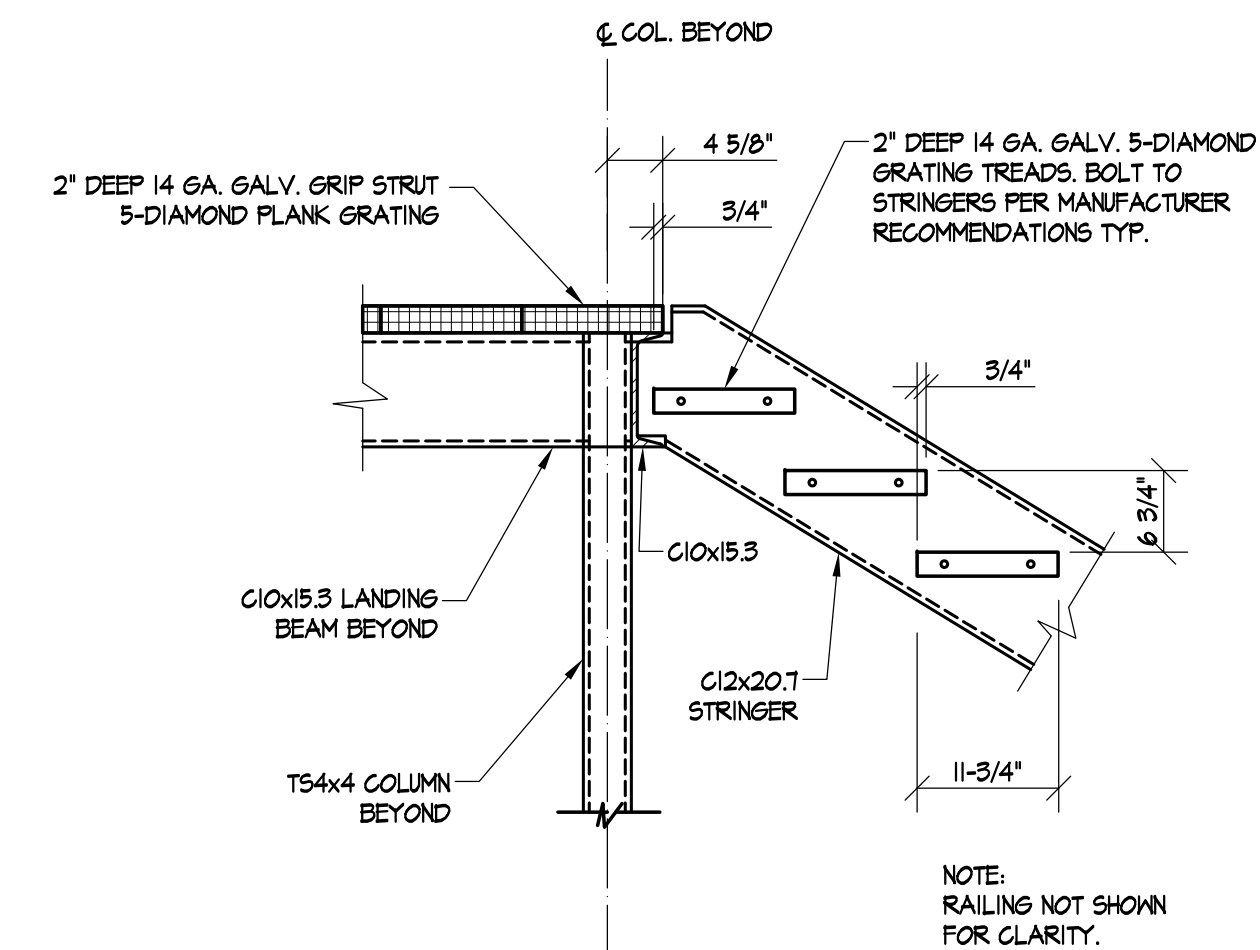
STAIR STRINGER SPLICE & CONNECTION



DETAIL

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

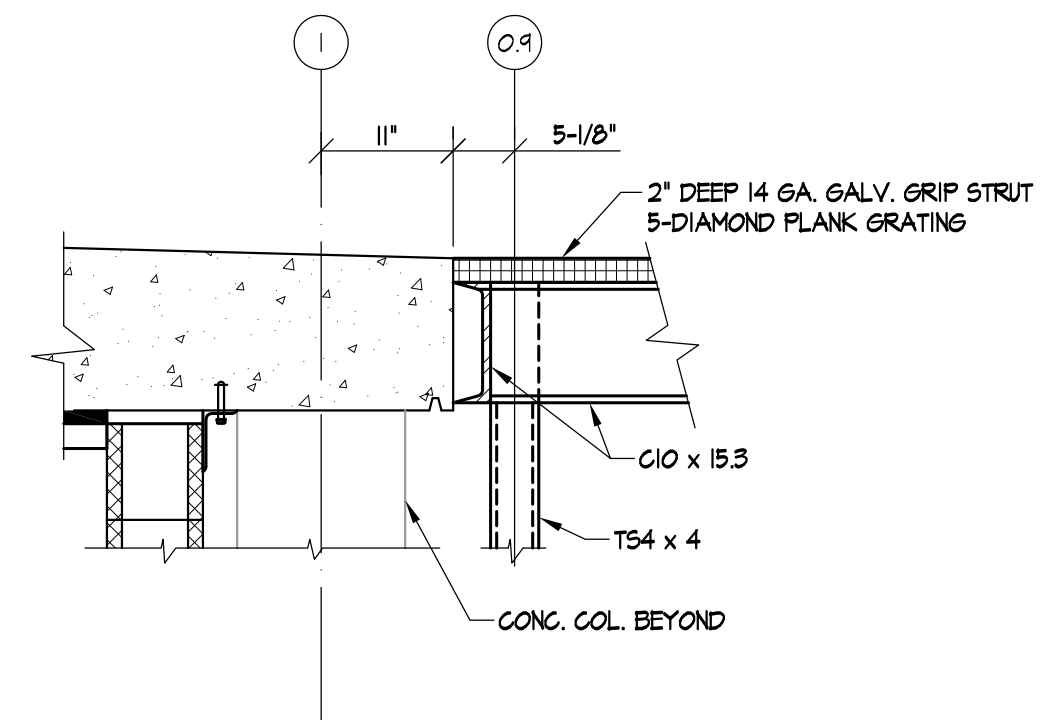
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DETAIL

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

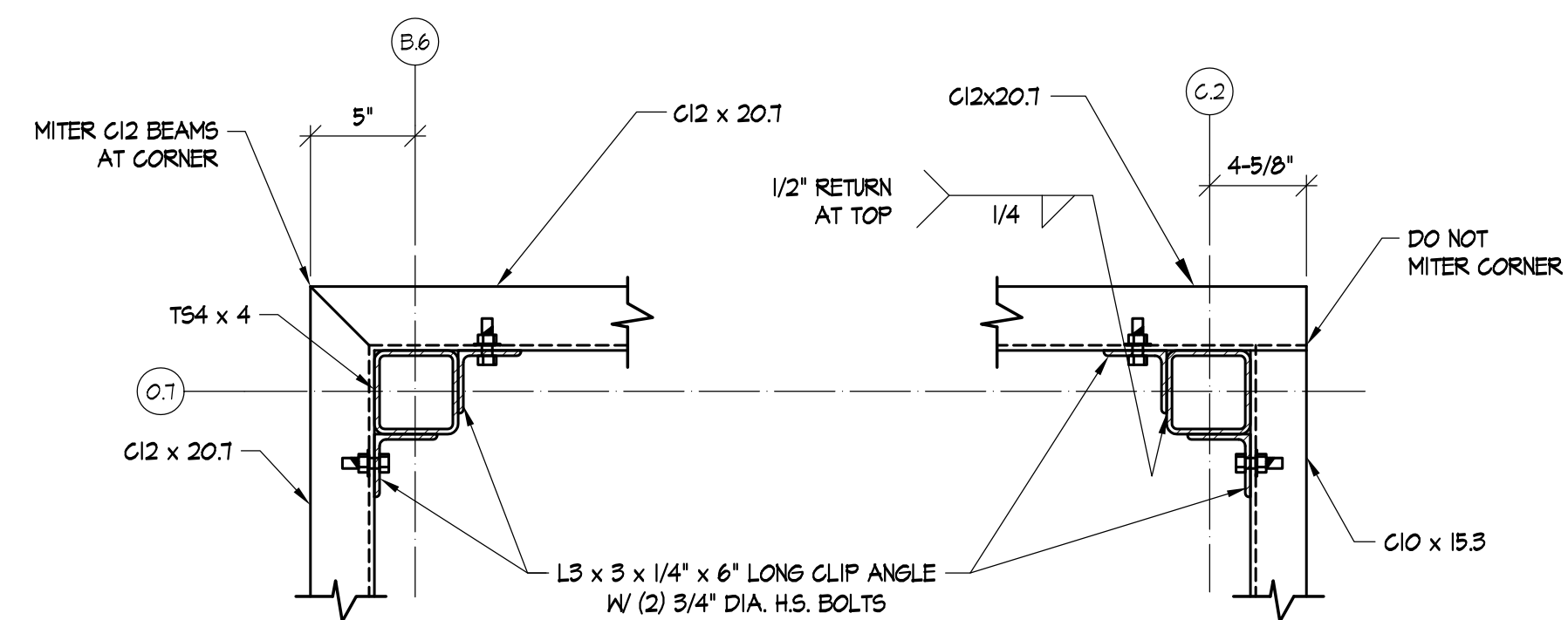
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SECTION

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

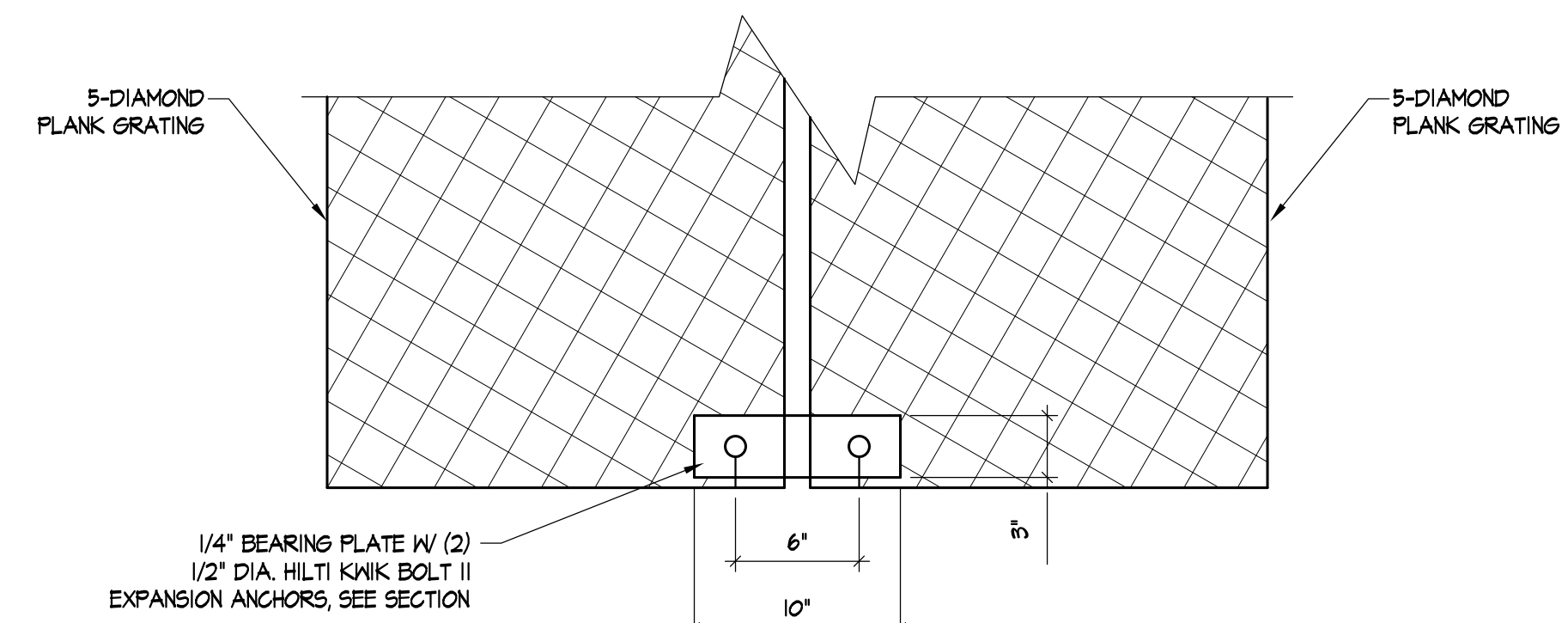
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DETAIL

LANDING BEAMS TO COLUMNS

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



DETAIL

GRATING PLANK CONNECTION

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

SECTION

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

GRATING PLANK CONNECTION

R

PRIME PROFESSIONAL FIRM LOGO

Project Title

COMMONWEALTH OF VIRGINIA
BURN BUILDING PROP
PROTOTYPE 1
CLASS A FUEL

SUB-CONSULTANT'S LOGO



Department of Fire Programs

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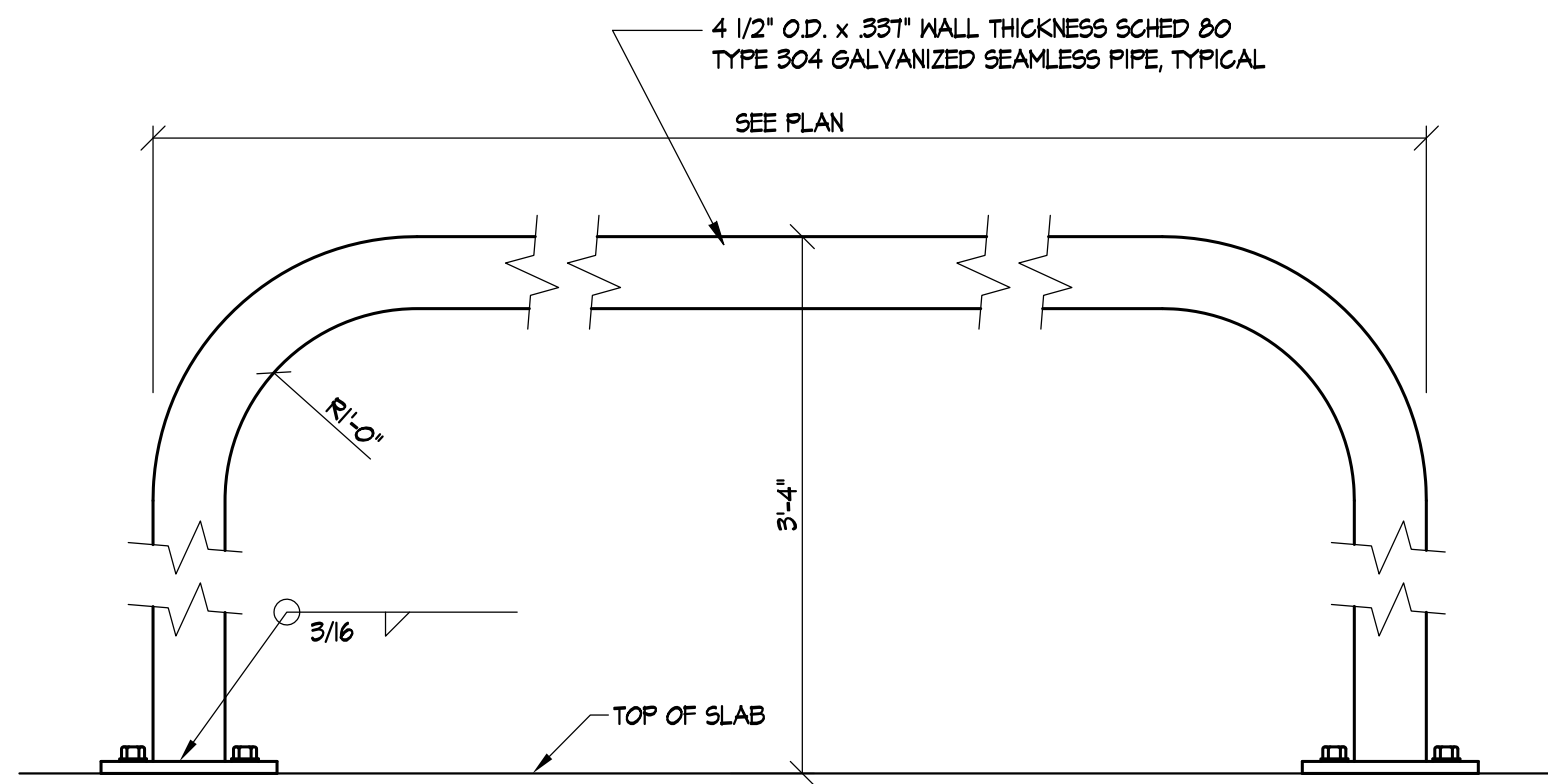
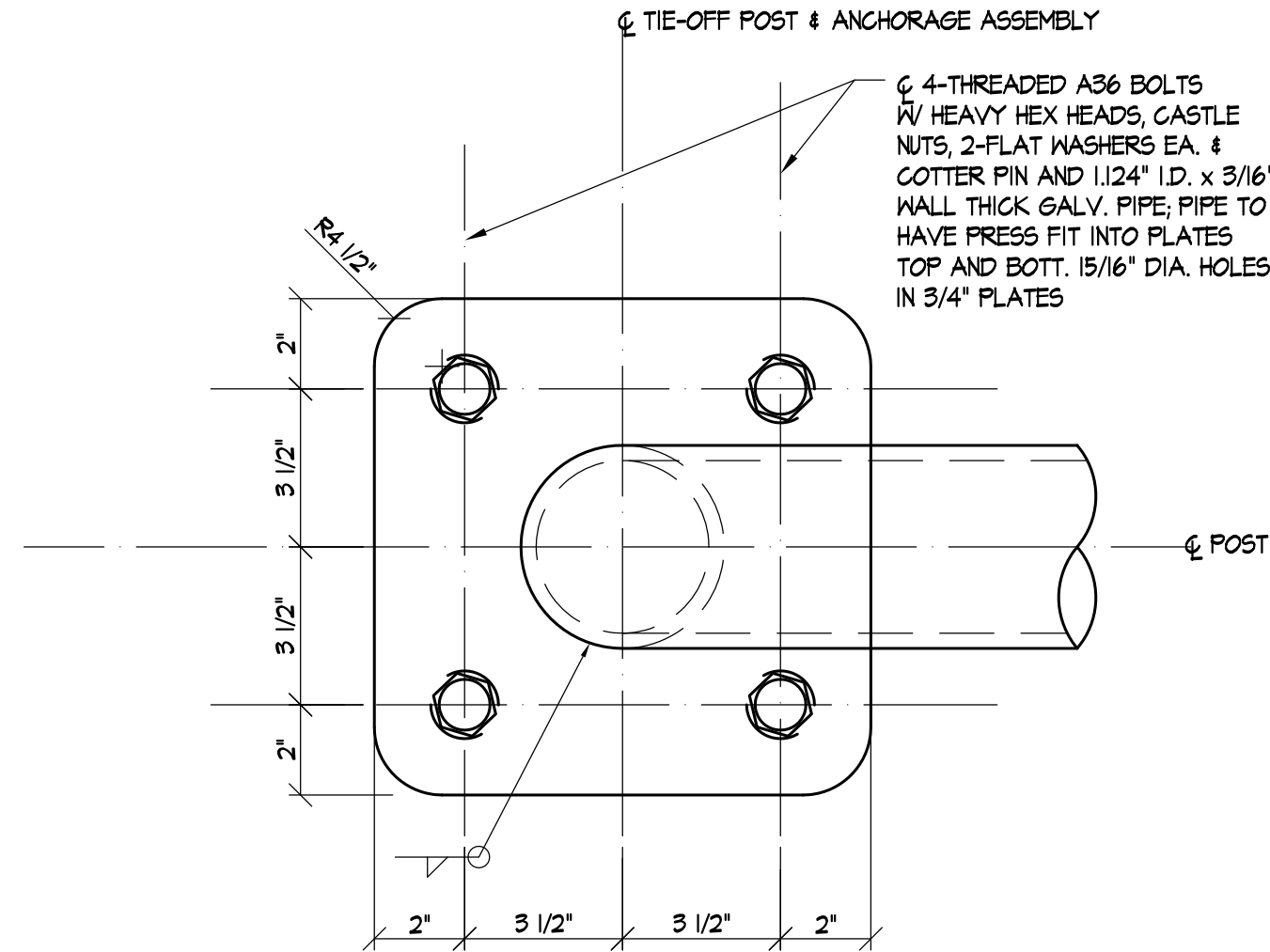
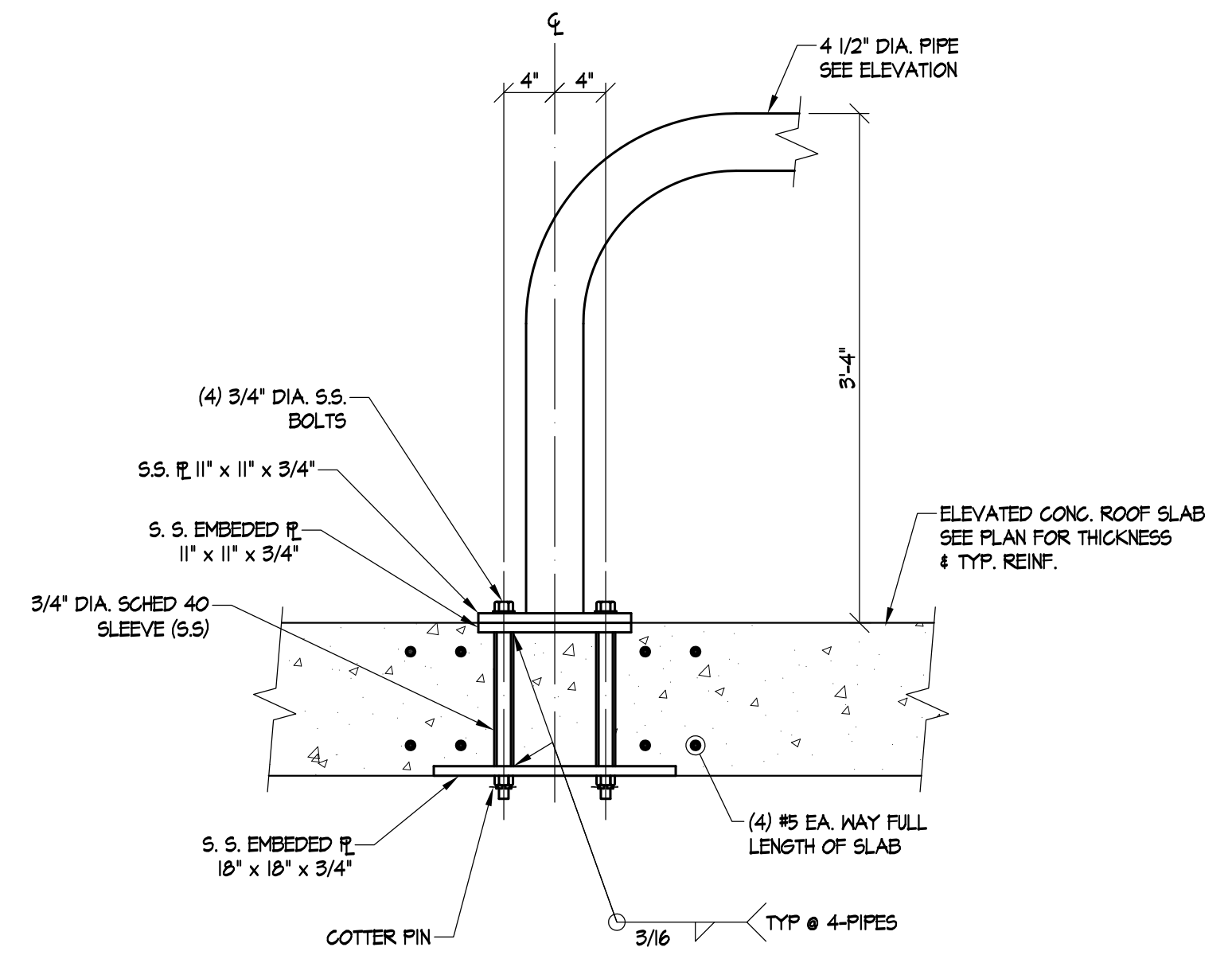
Sheet Title	EXTERIOR STEEL STAIR ELEVATION, SECTIONS & DETAILS
CITY/COUNTY	VIRGINIA
Drawn By: SJS	Approved By: MAM
Checked By: SMF	Date: 04/11/13

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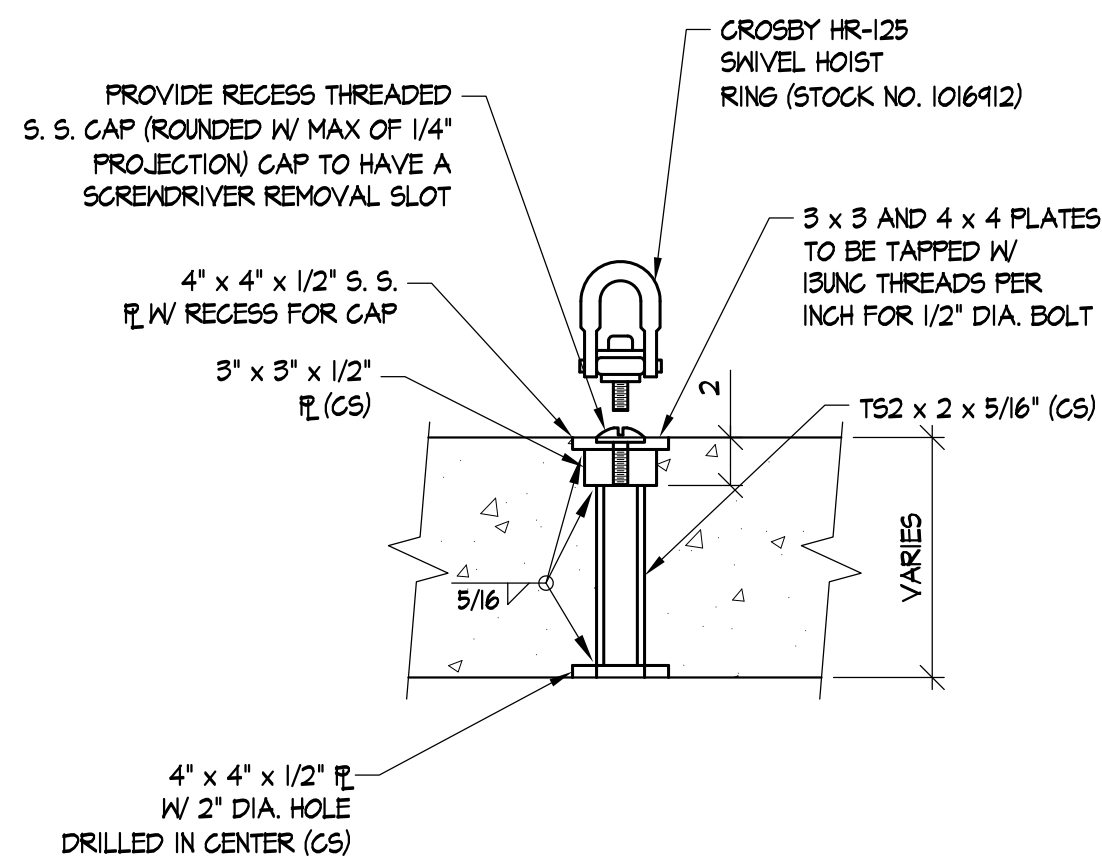
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DETAIL RAPELLING TIE-OFF BAR ALTERNATE
SCALE: 3" = 1'-0"



DETAIL RAPELL RING
SCALE: 1 1/2" = 1'-0"

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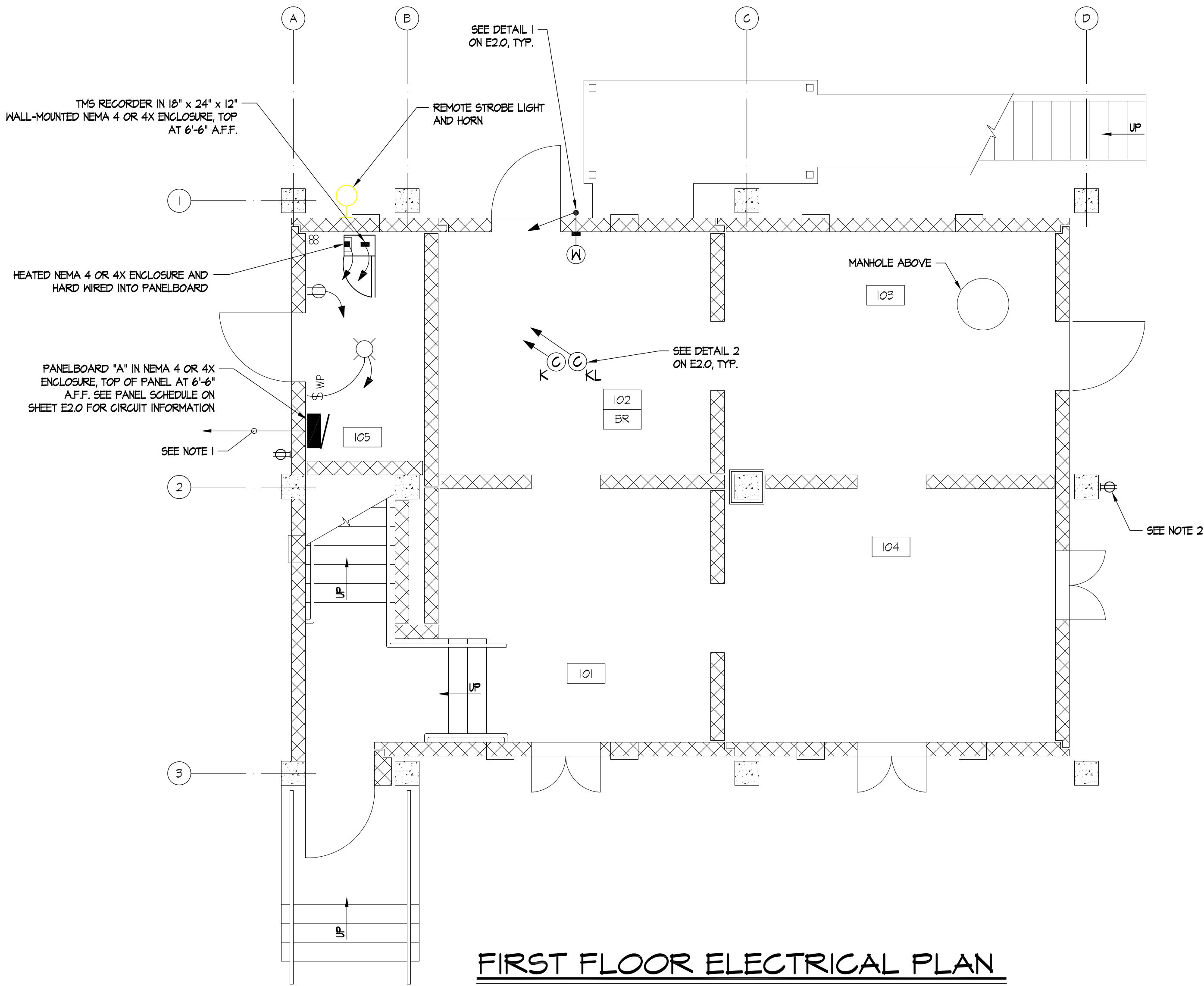
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Sheet Title RAPELLING BAR ELEVATION & DETAILS	
CITY/COUNTY	VIRGINIA
Drawn By: SJS	Approved By: MAM
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S3.1
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FIRST FLOOR ELECTRICAL PLAN

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

NOTES

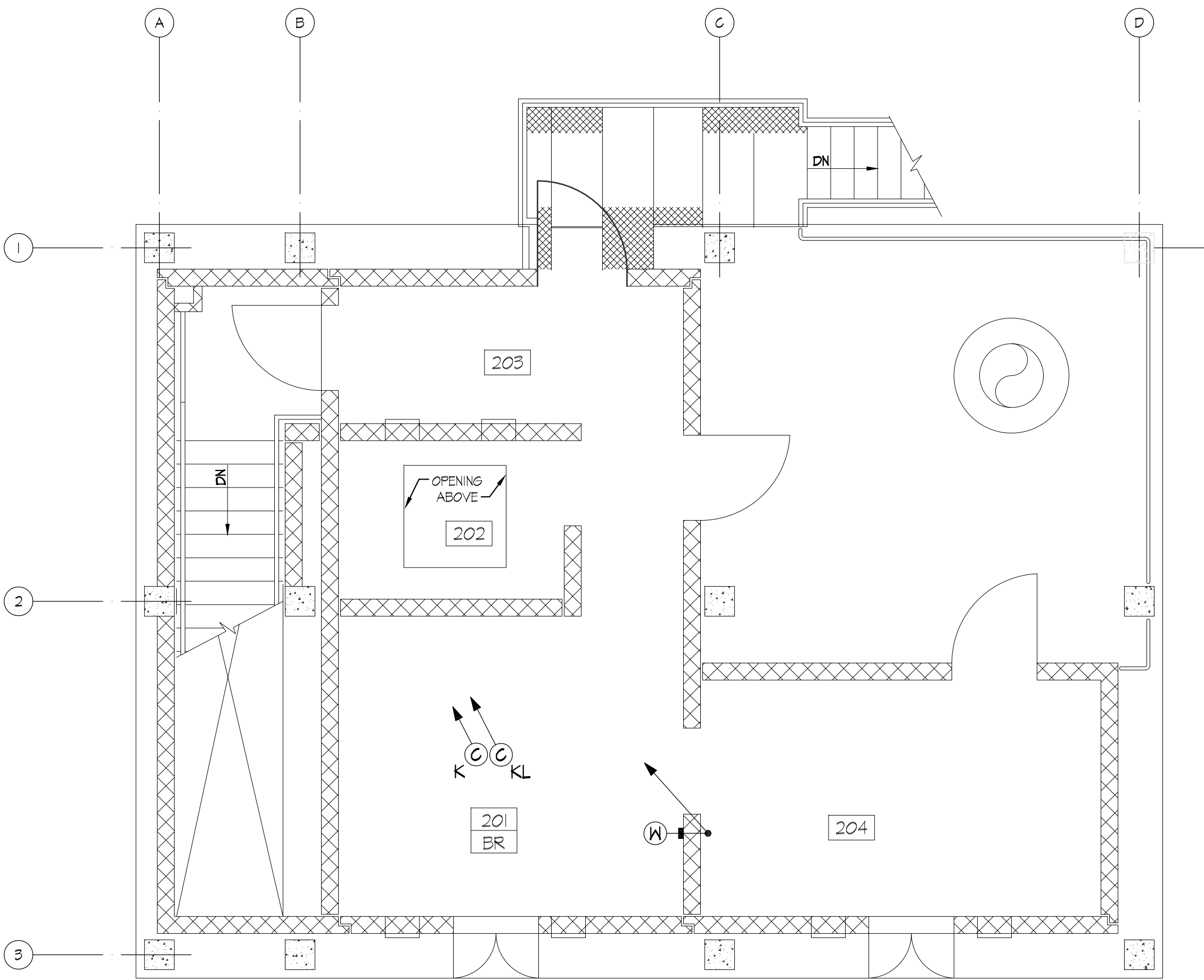
- ELECTRICAL PANEL "A" SHALL BE 120/208 VOLT 3 PHASE, 4 WIRE 200AMP MAIN CIRCUIT BREAKER, 30 POLE PANEL. CONTRACTOR SHALL COORDINATE POWER SOURCE TO PANEL AND SIZE FEEDER TO ACCOMMODATE VOLTAGE DROP. CONDUIT SHALL BE RUN AT A MINIMUM OF 36" BELOW GRADE AND SHALL BE PVC COATED RIGID STEEL.
- CONTRACTOR SHALL PROVIDE AN ALTERNATE PRICE FOR INSTALLATION OF EXTERIOR DUPLEX RECEPTACLES. RECEPTACLES SHALL BE RECESSED MOUNTED. PROVIDE CAST IRON RECEPTACLE WITH DIE CAST ALUMINUM COVERPLATE. DUPLEX RECEPTACLE SHALL BE CERAMIC AND HEAVY DUTY TYPE.
- ALL ELECTRICAL FIXTURES SHALL BE G.F.C.I.
- ALL WIRING SHALL COMPLY WITH THE APPLICABLE NATIONAL, STATE, AND LOCAL ELECTRICAL CODES. USE MINIMUM OF #12 AWG IN 1/2 INCH RIGID STEEL CONDUITS, UNLESS OTHERWISE NOTED.
- ALL HORIZONTAL CONDUIT FOR CEILING MOUNTED AND WALL MOUNTED THERMOCOUPLES SHALL BE LOCATED AT THE CENTER OF THE SECOND FLOOR SLAB.

ABBREVIATIONS:

- A AMPERE (S)
A.F.F. ABOVE FINISHED FLOOR
A.I.C AMPERE INTERRUPTING CAPACITY
AWG AMERICAN WIRE GAUGE
G.F.I GROUND FAULT INTERRUPT
GND GROUND
MCB MAIN CIRCUIT BREAKER
WP WEATHERPROOF SINGLE POLE 20 AMP SWITCH.
SURFACE MOUNTED, 42" MOUNTING HEIGHT A.F.F
T.L THERMAL LINING
T.M.S TEMPERATURE MONITORING SYSTEM
V VOLT (S)
W WATT
WP WEATHERPROOF (NEMA 4X)

SYMBOLS:

- WEATHERPROOF CEILING MOUNTED, 100W, 120V, INCANDESCENT FIXTURE.
WEATHERPROOF DUPLEX RECEPTACLE, 20A, 125V, GROUNDING TYPE, HAVING NEMA TYPE 5-20 R CONFIGURATION, SURFACE MOUNTED, 18" MOUNTING HEIGHT A.F.F.
JUNCTION BOX
CONDUIT TURNED UP
CONDUIT TURNED DOWN
CONDUIT RUN TO RECORDER FOR TEMPERATURE MONITORING SYSTEM U.O.N
WALL-MOUNTED TYPE K DUPLEX THERMOCOUPLE, 60" A.F.F. SEE DETAIL 1/E2.0
RECESSED CEILING-MOUNTED TYPE K DUPLEX THERMOCOUPLE, SEE DETAIL 2/E2.0
RECESSED CEILING-MOUNTED TYPE K DUPLEX THERMOCOUPLE PLACED BEHIND INSULATION OF THERMAL LINING, SEE DETAIL 2/E2.0
EXISTING METER
BRANCH CIRCUIT CONDUIT WITH 2 #12 AWG + GROUND WIRE, U.O.N, RUN EXPOSED TO PANELBOARD
CONNECTION POINT
REMOTE STROBE LIGHT AND HORN



SECOND FLOOR ELECTRICAL PLAN

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

NOTES

- ALL HORIZONTAL CONDUIT FOR CEILING MOUNTED AND WALL MOUNTED THERMOCOUPLES SHALL BE LOCATED AT THE CENTER OF THE HIGH ROOF SLAB.

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Sheet Title

ELECTRICAL PLANS,
ABBREVIATIONS &
SYMBOLS

CITY/COUNTY VIRGINIA

Drawn By: SJS Approved By: MAM

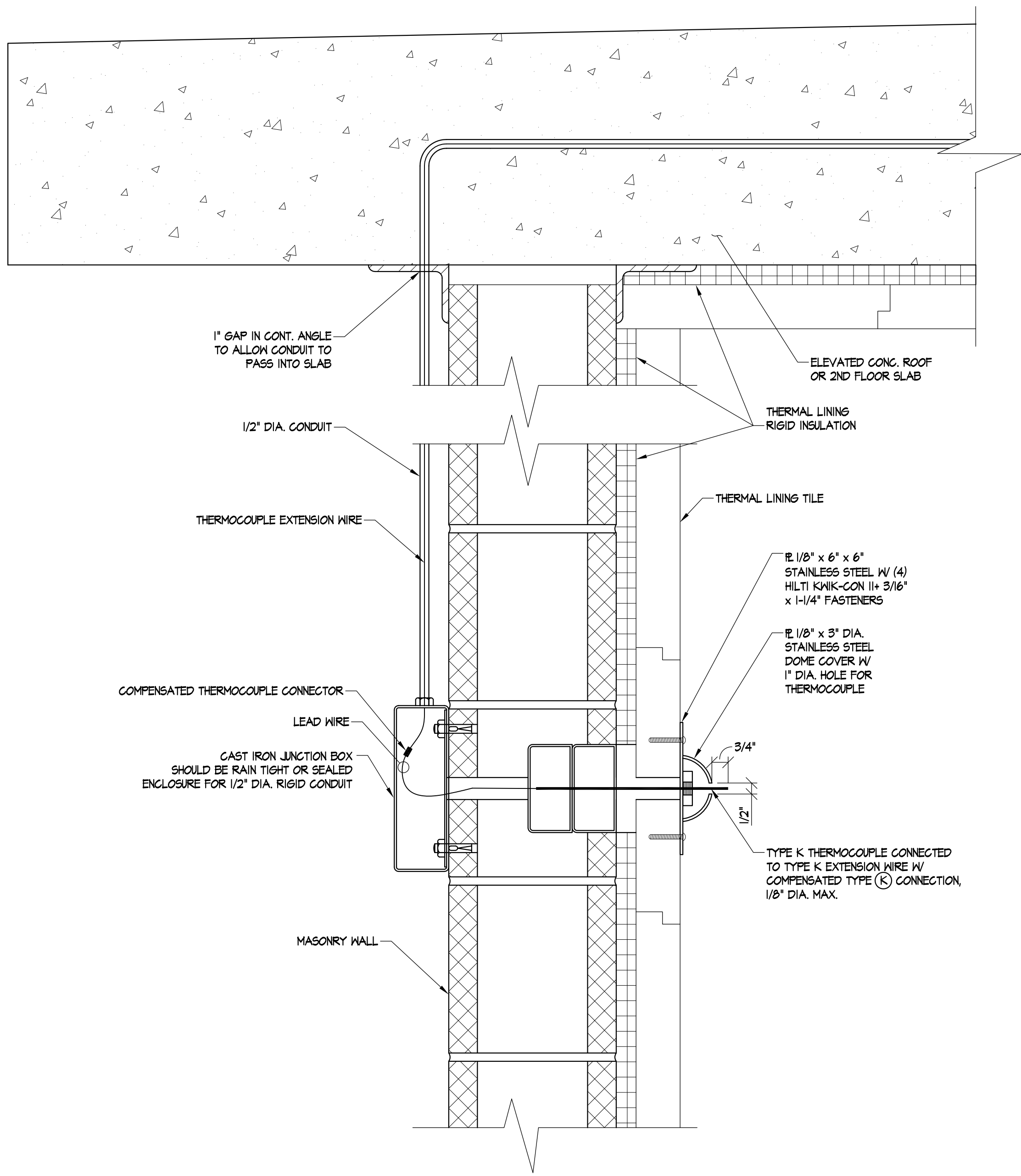
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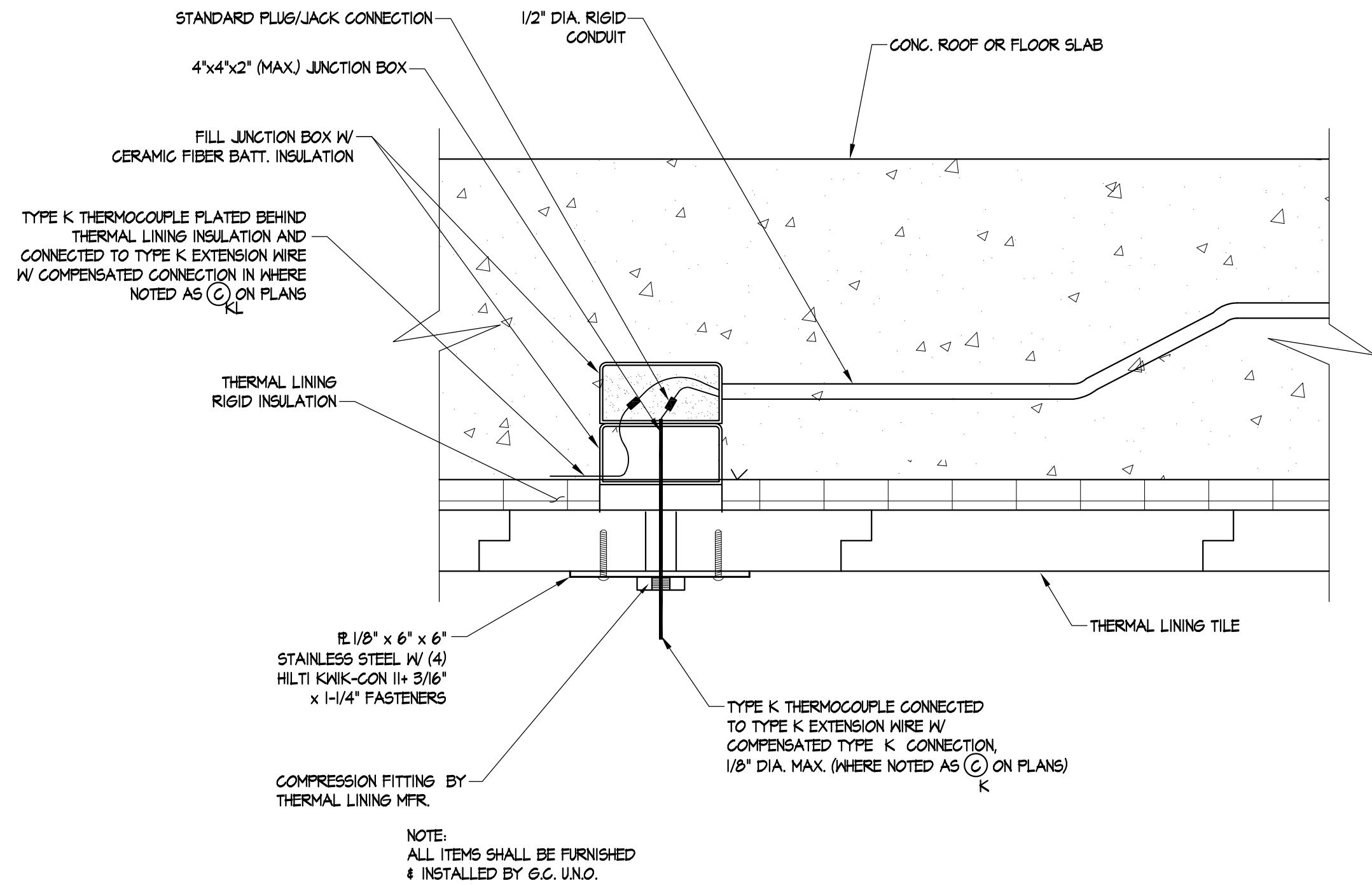


DETAIL

SCALE: 3" = 1'-0"

1
E1.0 E2.0

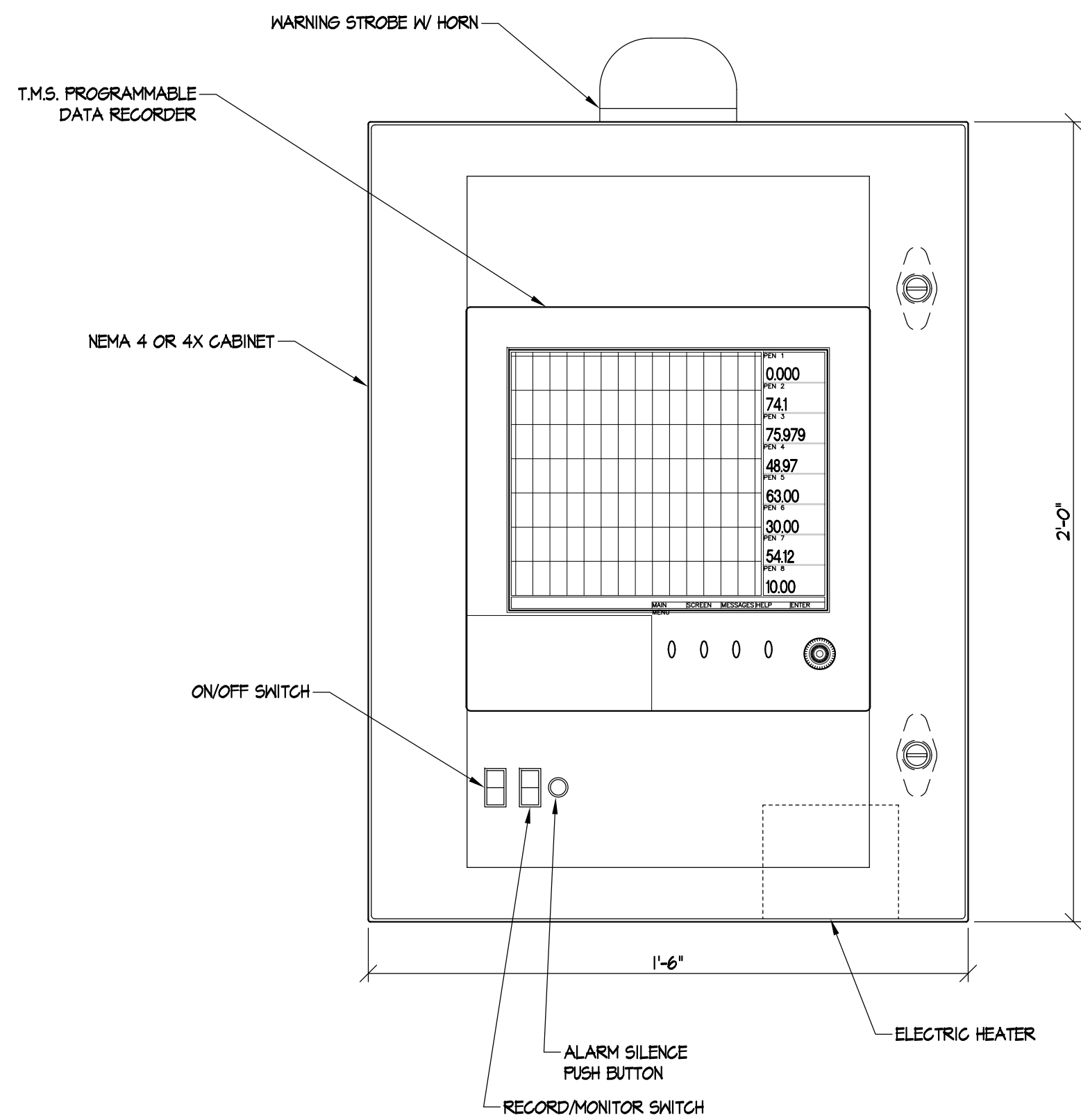
PANELBOARD SCHEDULE				LP-1							
LOCATION: 105				FED FROM: SHED MGB				1]- GFI			
SERVICE: 208Y/120V 3-P 4-W				NEUTRAL BUS: 100%				2]- SHUNT TRIP			
MAIN LUGS: A				GROUND BUS: STANDARD				3]- BREAKER LOCK			
MAIN BUS TYPE: -				MOUNTING: SURFACE				4]- HACR			
INTERRUPT RATING: -				ENCLOSURE: NEMA 4X							
AIC											
DESCRIPTION	CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION	
				A	B	C					
T.M.S. PANEL	(N)	1	20A-IP	500	680		180	20A-IP	2	RECEPTACLE	(E)
		3	20A-IP					20A-IP	4		
		5	20A-IP					20A-IP	6		
		7	20A-IP					20A-IP	8		
		9	20A-IP					20A-IP	10		
		11	20A-IP					20A-IP	12		
		13	20A-IP					20A-IP	14		
		15	20A-IP					20A-IP	16		
		17	20A-IP					20A-IP	18		
		19	20A-IP					20A-IP	20		
		21	20A-IP					20A-IP	22		
		23	20A-IP					20A-IP	24		
		25	20A-IP					20A-IP	26		
		27	20A-IP					20A-IP	28		
		29	20A-IP					20A-IP	30		
				680							
TOTAL VA PER PHASE											



DETAIL

SCALE: 3" = 1'-0"

2
E1.0 E2.0



ELEVATION

SCALE: 3" = 1'-0"

T.M.S. INDICATOR PANEL

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COMMONWEALTH OF
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ELECTRICAL DETAILS, TMS INDICATOR PANEL, & PANELBOARD SCHEDULE	
CITY/COUNTY VIRGINIA	
Drawn By: SJS	Approved By: MAM
Checked By: SMF	Date: 04/11/13

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