

AEI Affiliated Engineers®



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**Proton Therapy
LINAC Addition**
Shands Jacksonville Campus
UF LM-4985

Sheet Title

Scale
12" = 1'-0"

Drawn By
CSH

AEI Project No.

11662-00

Sheet No.

S002

CM	- CONSTRUCTION MANAGER
CMU	- CONCRETE MASONRY UNIT
CO	- CUT OFF
COL	- COLUMN
COMP	- COMPOSITE, COMPRESSOR, COMPRESSIVE
CONC	- CONCRETE
CONN	- CONNECTION, CONNECT
CONSTR	- CONSTRUCTION
CONT	- CONTINUOUS
CONTR	- CONTRACTOR
CRSI	- CONCRETE REINFORCING STEEL INSTITUTE
CSK	- COUNTERSINK
CTR	- CENTER
CTRD	- CENTERED
CW	- CURTAIN WALL, CURTAINWALL
CY	- CUBIC YARD
DBA	- DEFORMED BAR ANCHOR
DBL	- DOUBLE
DEG	- DEGREES
DEMO	- DEMOLITION
DEPT	- DEPARTMENT
DET	- DETAIL
DIA	- DIAMETER
DIAG	- DIAGONAL
DIAPH	- DIAPHRAGM
DIM	- DIMENSION
DL	- DEAD LOAD
DN	- DOWN
DO	- DITTO
DT	- DOUBLE TEES
DWG	- DRAWING
DWL	- DOWEL
E	- EAST
EA	- EACH
EE	- EACH END
EF	- EACH FACE
EJ	- EXPANSION JOINT
EL	- ELEVATION
ELEC	- ELECTRICAL
ELEV	- ELEVATOR
ENCL	- ENCLOSURE
ENGR	- ENGINEER
EO	- EDGE OF DECK
EOS	- EDGE OF SLAB
EQ	- EQUAL
EQPT	- EQUIPMENT
ES	- EACH SIDE
EST	- ESTIMATED
ETC	- AND OTHERS

EW	- EACH WAY
EXIST	- EXISTING
EXP	- EXPANSION
EXP JT	- EXPANSION JOINT
EXT	- EXTERIOR
F	- FAHRENHEIT
f'c	- MINIMUM 28-DAY CONCRETE STRENGTH
f'm	- SPECIFIED MASONRY STRENGTH
FB	- FLAT BAR
FBC	- FLOOR BUILDING CODE
FD	- FLOOR DRAIN
FDN	- FOUNDATION
FF	- FINISHED FLOOR
FIN	- FINISH, FINISHED
FLR	- FLOOR
FOS	- FACE OF STUD
FRPF	- FIREPROOF
FRT	- FIRE RETARDANT
FS	- FAR SIDE
FT	- FOOT, FEET
FTG	- FOOTING
Fy	- YIELD STRENGTH OF STEEL
GA	- GAUGE
GALV	- GALVANIZED
GC	- GENERAL CONTRACTOR
GCL	- GRANULAR CAPILLARY LAYER
GEN	- GENERAL
GLB	- GLULAM BEAM
GR	- GRADE
GRND	- GROUND
GWB	- GYPSUM WALLBOARD
GYP	- GYPSUM
HC	- HOLLOW CORE
HCA	- HEADED CONCRETE ANCHOR
HD	- HEAVY DUTY, HEAD
HOG	- HOT DIPPED GALVANIZED
HDR	- HEADER
HEX	- HEXAGONAL
HGR	- HANGER
HGT	- HEIGHT
HJR	- HORIZONTAL JOINT REINFORCING
HK	- HOOK
HORIZ	- HORIZONTAL
HP	- STEEL BEARING PILE
HS	- HIGH STRENGTH
HSS	- SQUARE, RECTANGULAR OR ROUND HOLLOW STRUCTURAL SECTION
HWI	- HEX WASHER HEAD
IBC	- INTERNATIONAL BUILDING CODE

ICF	- INSULATED CONCRETE FORM
ID	- INSIDE DIAMETER
IF	- INSIDE FACE
IN	- INCHES
INFO	- INFORMATION
INSUL	- INSULATION
INT	- INTERIOR
JST	- JOIST
JT	- JOINT
K	- KIPS (1000 LBS.)
KB	- KNEE BRACE
KD	- KILN DRIED
KO	- KNOCK OUT
KSF	- KIPS PER SQUARE FOOT
KSI	- KIPS PER SQUARE INCH
L	- STEEL ANGLE, LENGTH
LAM	- LAMINATED
LBS	- POUNDS
LF	- LINEAL FEET
LL	- LIVE LOAD
LLBB	- LONG LEG BACK TO BACK
LLH	- LONG LEG HORIZONTAL
LLO	- LONG LEG OUTSTANDING
LLV	- LONG LEG VERTICAL
LRFD	- LOAD AND RESISTANCE FACTOR DESIGN
LSH	- LONG SIDE HORIZONTAL
LSL	- LONG SLOTTED
LSV	- LONG SIDE VERTICAL
LT	- LIGHT
LW	- LIGHTWEIGHT, LONG WAY
M	- STEEL SHAPE
MACH	- MACHINE
MAS	- MASONRY
MATL	- MATERIAL
MAX	- MAXIMUM
MB	- MACHINE BOLT, MASONRY BEAM
MBM	- METAL BUILDING MANUFACTURER
MBR	- MEMBER
MC	- MISCELLANEOUS STEEL CHANNEL, MOMENT CONNECTION
MECH	- MECHANICAL
MED	- MEDIUM
MEMB	- MEMBRANE
MEZZ	- MEZZANINE
MFR	- MANUFACTURER
MID	- MIDDLE
MIN	- MINIMUM
MISC	- MISCELLANEOUS
MO	- MASONRY OPENING

MTL	- METAL, MATERIAL
MULL	- MULLION
N	- NORTH
NGVD	- NATIONAL GEODETIC VERTICAL DATUM
NIC	- NOT IN CONTRACT
NO.	- NUMBER
NOM	- NOMINAL
NS	- NEAR SIDE
NTS	- NOT TO SCALE
OA	- OVERALL
OC	- ON CENTER
OD	- OUTSIDE DIAMETER
OF	- OUTSIDE FACE
OPNG	- OPENING
OPP	- OPPOSITE
OPPH	- OPPH
OSHA	- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OVS	- OVERSIZED
OZ	- OUNCE
P	- STEEL PIPE
PAF	- POWDER ACTUATED FASTENER
PC	- PRECAST, PILE CAP, PIECE
PCF	- POUNDS PER CUBIC FOOT
PCI	- PRESTRESSED CONCRETE INSTITUTE
PE	- PROFESSIONAL ENGINEER
PED	- PEDESTAL
PEMB	- PRE-ENGINEERED METAL BUILDING
PERP	- PERPENDICULAR
PL	- PLATE
PLF	- POUNDS PER LINEAL FOOT
PNL	- PANEL
PP	- PANEL POINT
PREFAB	- PREFABRICATED
PRELIM	- PRELIMINARY
PREP	- PREPARATION
PS	- PRESTRESSED CONCRETE
PSC	- POUNDS PER SQUARE FOOT
PSI	- POUNDS PER SQUARE INCH
PT	- PRESSURE TREATED
PTC	- POST TENSIONED CONCRETE
PTD	- PAINTED
PVMT	- PAVEMENT
QA	- QUALITY ASSURANCE
QC	- QUALITY CONTROL
QTR	- QUARTER
QTY	- QUANTITY
R	- RISER, REACTION, RADUIS
R/W	- RIGHT OF WAY

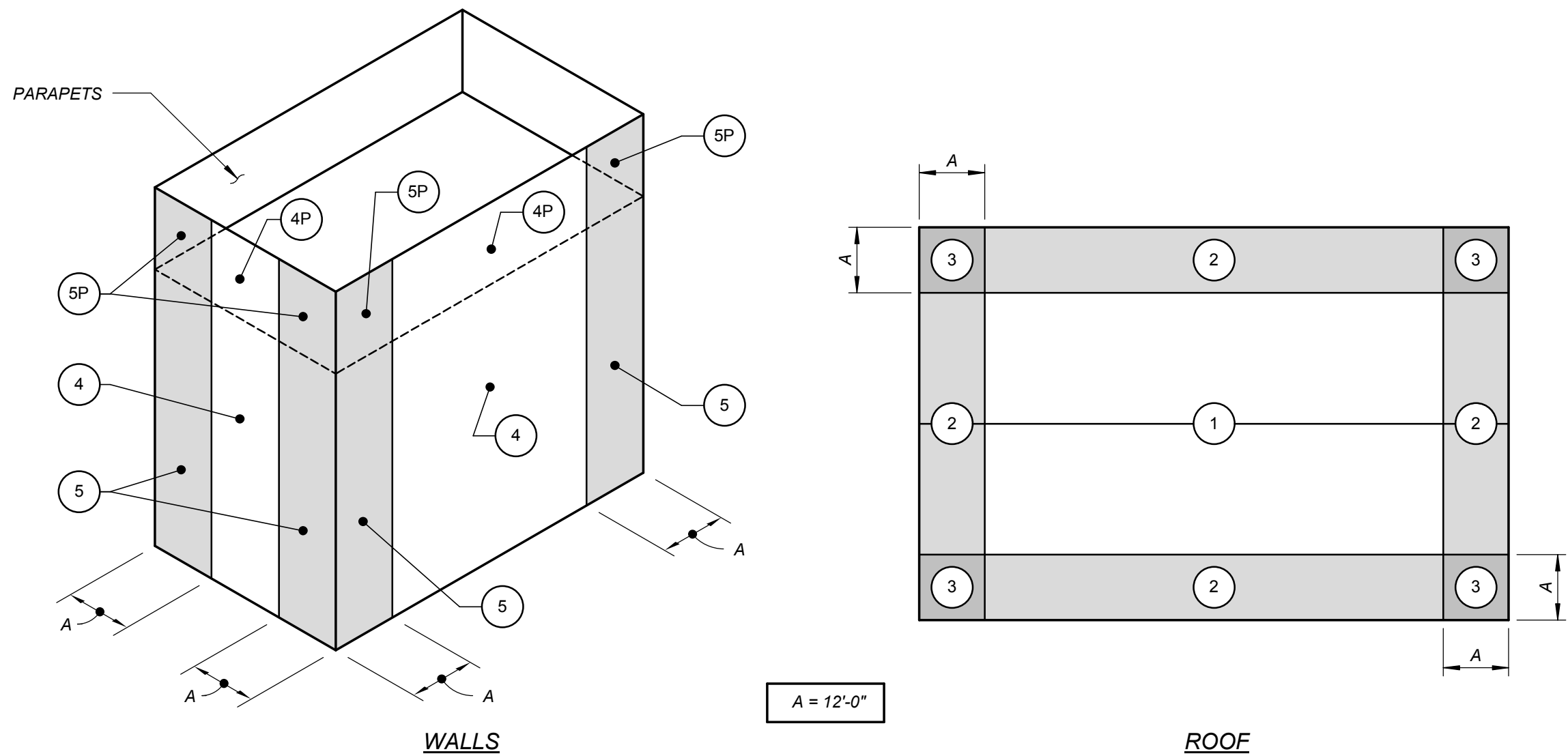
RD - ROOF DRAIN
REF - REFERENCE
REINF - REINFORCED, REINFORCING, REINFORCEMENT
REM - REMAINDER
REQD - REQUIRED
REV - REVISION
RFG - ROOFING
RM - ROOM
RO - ROUGH OPENING
RTN - RETURN
RTU - ROOF TOP UNIT
S - SOUTH, STANDARD BEAM
SBC - STANDARD BUILDING CODE
SC - SLIP CRITICAL
SCHED - SCHEDULE
SDI - STEEL DECK INSTITUTE
SE - STRUCTURAL ENGINEER
SECT - SECTION
SF - SQUARE FEET
SGL - SINGLE
SHT - SHEET
SIM - SIMILAR
SJ - SAWED CONTROL JOINT
SJI - STEEL JOIST INSTITUTE
SLBB - SHORT LEG BACK TO BACK
SLO - SHORT LEG OUTSTANDING
SLOT - SLOTTED
SLP - SLOPE
SLV - SHORT LEG VERTICAL
SOG - SLAB ON GRADE
SPA - SPACED, SPACING, SPACES
SPEC - SPECIFICATION
SQ - SQUARE
SS - STAINLESS STEEL
SSL - SHORT SLOTTED
SSPC - STEEL STRUCTURES PAINTING COUNCIL
ST - STANDARD FLANGE, STRUCTURAL TEE
STD - STANDARD
STIFF - STIFFENER
STIR - STIRRUP
STL - STEEL
STRUCT - STRUCTURAL
SUSP - SUSPENDED
SW - SQUARE WAY, SHEAR WALL
SY - SHORT YARD
SYM - SYMMETRICAL
SYP - SOUTHERN YELLOW PINE
SYS - SYSTEM
T - TREAD

TAB	- TOP & BOTTOM
TAG	- TONGUE & GROOVE
TB	- TIE BEAM
TEMP	- TEMPORARY, TEMPERATURE
THK	- THICK
THRD	- THREADED
TOC	- TOP OF CONCRETE
TOF	- TOP OF FOOTING
TOGB	- TOP OF GRADE BEAM
TOJ	- TOP OF JOIST
TOM	- TOP OF MASONRY
TOPC	- TOP OF PILE CAP
TOPG	- TOPPING
TOPL	- TO OF PLATE
TOS	- TOP OF STEEL
TOSL	- TOP OF SLAB
TOW	- TOP OF WALL
TPL	- TRIPLE
TYP	- TYPICAL
UNO	- UNLESS NOTED OTHERWISE
VERT	- VERTICAL
VOL	- VOLUME
W	- STEEL WIDE FLANGE SHAPE, WEST
WI	- WITH
W/O	- WITHOUT
WCJ	- WALL CONTROL JOINT
WD	- WOOD
WEJ	- WALL EXPANSION JOINT
WF	- WALL FOOTING
WG	- WEIGHT
WL	- WIND LOAD
WP	- WORKING POINT, WATERPROOF
WPG	- WATERPROOFING
WS	- WATERSTOP
WT	- WIDE FLANGE STRUCTURAL TEE, WATER TABLE
WTF	- WALL TYPE
WWF	- WELDED WIRE FABRIC
XS	- EXTRA STRONG
XXS	- DOUBLE EXTRA STRONG
YD	- YARD

COMPONENTS & CLADDING					
WIND LOAD DESIGN PRESSURE SCHEDULE					
COMPONENT	ZONE	EFFECTIVE WIND AREA (SF)	DESIGN PRESSURE (PSF) POSITIVE	NEGATIVE	
ROOF ELEMENTS	1	10	12	-30	
		20	11	-29	
		50	10	-28	
		>100	10	-27	
		10	12	-50	
	2	20	11	-45	
		50	10	-38	
		>100	10	-32	
		10	12	-75	
		20	11	-62	
	3	50	10	-45	
		>100	10	-32	
10		27	-30		
20		26	-28		
50		24	-27		
EXTERIOR WALL ELEMENTS, WINDOWS, DOORS AND CURTAIN WALLS	4	100	23	-26	
		>500	22	-23	
		4P	10	72	--
			20	65	--
			50	56	--
	100		46	--	
	>500		46	--	
	5	10	27	-36	
		20	26	-34	
		50	24	-31	
		100	23	-28	
		>500	22	-23	
	5P	10	98	--	
		20	83	--	
		50	64	--	
		100	49	--	
		>500	46	--	

NOTES:

1. POSITIVE WIND PRESSURES SHALL BE USED IN THE DESIGN OF ALL COMPONENTS AND CLADDING ELEMENTS COMPRISING THE BUILDING ENVELOPE.
2. REFER TO THE WIND PRESSURE DIAGRAM FOR ZONE LOCATIONS AND EXTENTS.
3. POSITIVE PRESSURES ACT TOWARD COMPONENT SURFACES AND NEGATIVE PRESSURES ACT AWAY FROM EACH COMPONENT SURFACE.
4. LINEAR INTERPOLATION BETWEEN EFFECTIVE WIND AREAS MAY BE USED TO OBTAIN THE REQUIRED COMPONENT AND CLADDING DESIGN WIND PRESSURE.
5. VALUES FOR OVERHANGS INCLUDE PRESSURE CONTRIBUTIONS FROM BOTH UPPER AND LOWER SURFACES.
6. DIMENSION A = 12' - 0"



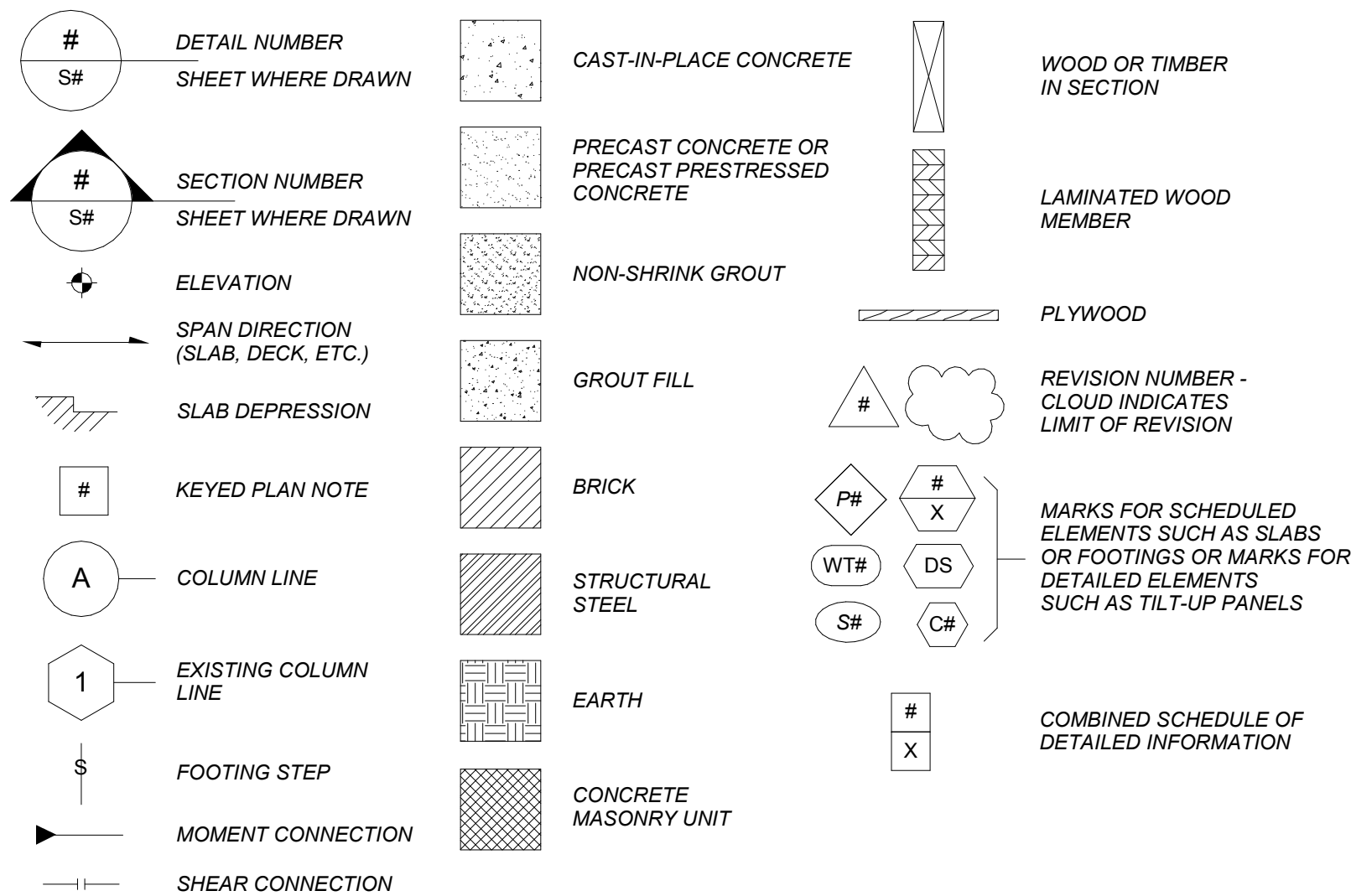
WIND PRESSURE DIAGRAMS
REFER TO 'COMPONENTS & CLADDING WIND
LOAD DESIGN PRESSURE SCHEDULE' ON THIS SHEET

ZONE	EFFECTIVE WIND AREA (SF)	DESIGN PRESSURE (PSF)
1	10	-21
	20	-20
	50	-19
	>100	-18
2	10	-41
	20	-36
	50	-29
	>100	-23
3	10	-66
	20	-53
	50	-36
	>100	-23

NOTES:

1. JOISTS SHALL BE CLASSIFIED AS COMPONENTS AND SHALL BE DESIGNED USING THE NET PRESSURES LISTED IN THE TABLE
2. REFER TO THE WIND PRESSURE DIAGRAM FOR ZONE LOCATIONS AND EXTENTS
3. NEGATIVE PRESSURES ACT AWAY FROM EACH COMPONENT SURFACE
4. LINEAR INTERPOLATION BETWEEN EFFECTIVE WIND AREAS MAY BE USED TO OBTAIN THE REQUIRED COMPONENT DESIGN NET UPLIFT PRESSURE.

- NOTES:**
1. JOISTS SHALL BE CLASSIFIED AS COMPONENTS AND SHALL BE DESIGNED USING THE NET PRESSURES LISTED IN THE TABLE.
 2. REFER TO THE WIND PRESSURE DIAGRAM FOR ZONE LOCATIONS AND EXTENTS.
 3. NEGATIVE PRESSURES ACT AWAY FROM EACH COMPONENT SURFACE.
 4. LINEAR INTERPOLATION BETWEEN EFFECTIVE WIND AREAS MAY BE USED TO OBTAIN THE REQUIRED COMPONENT DESIGN NET UPLIFT PRESSURE.



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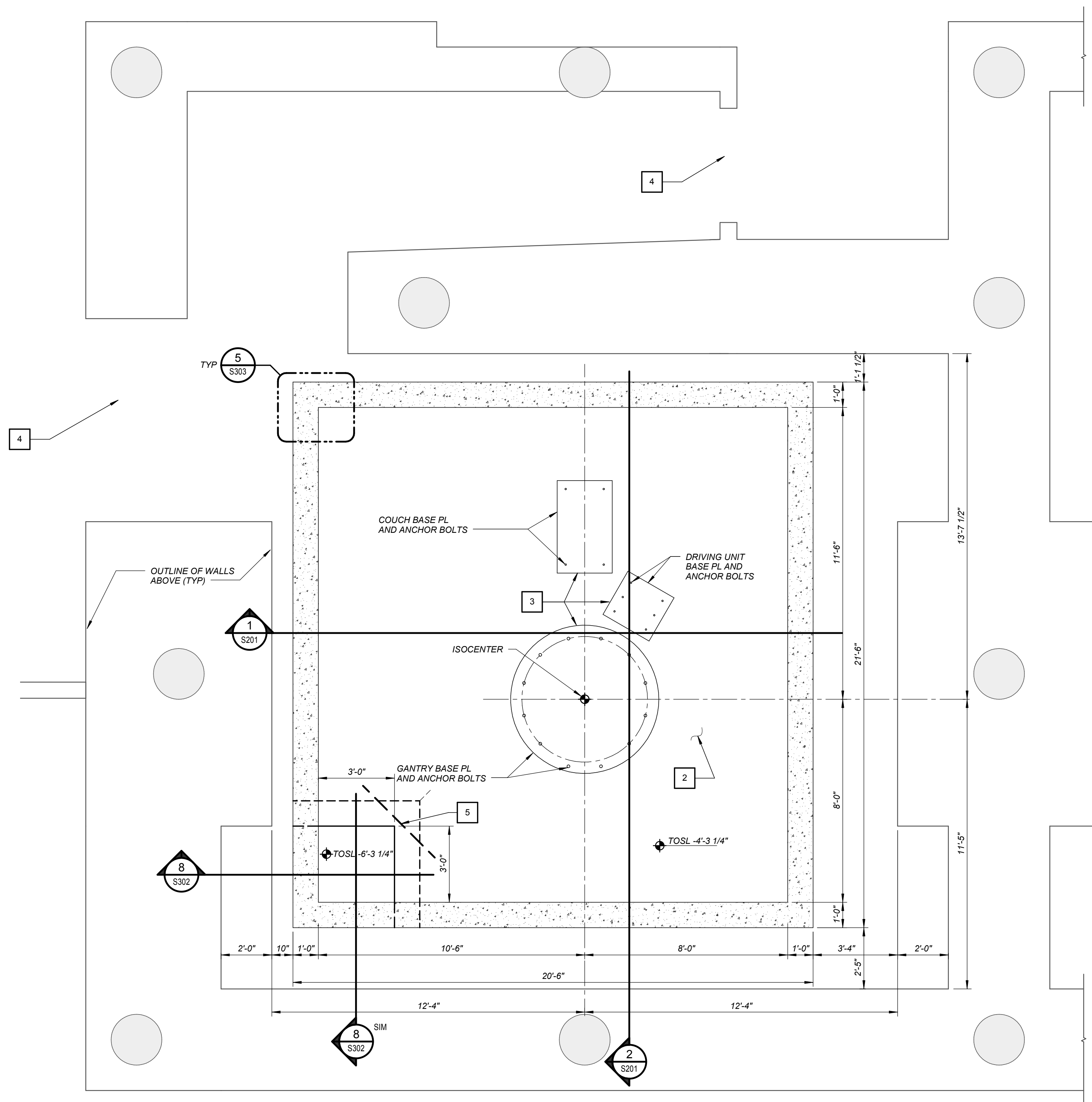
Project Phase
100% Construction Documents

Sheet Title

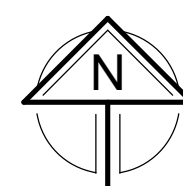
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S101

5 ADD 2-#6x4'-0" T&B AT ALL RE-ENTRANT CORNERS. PLACE IN INNER SLAB REINFORCING LAYER, 2" CLEAR FROM CORNER.

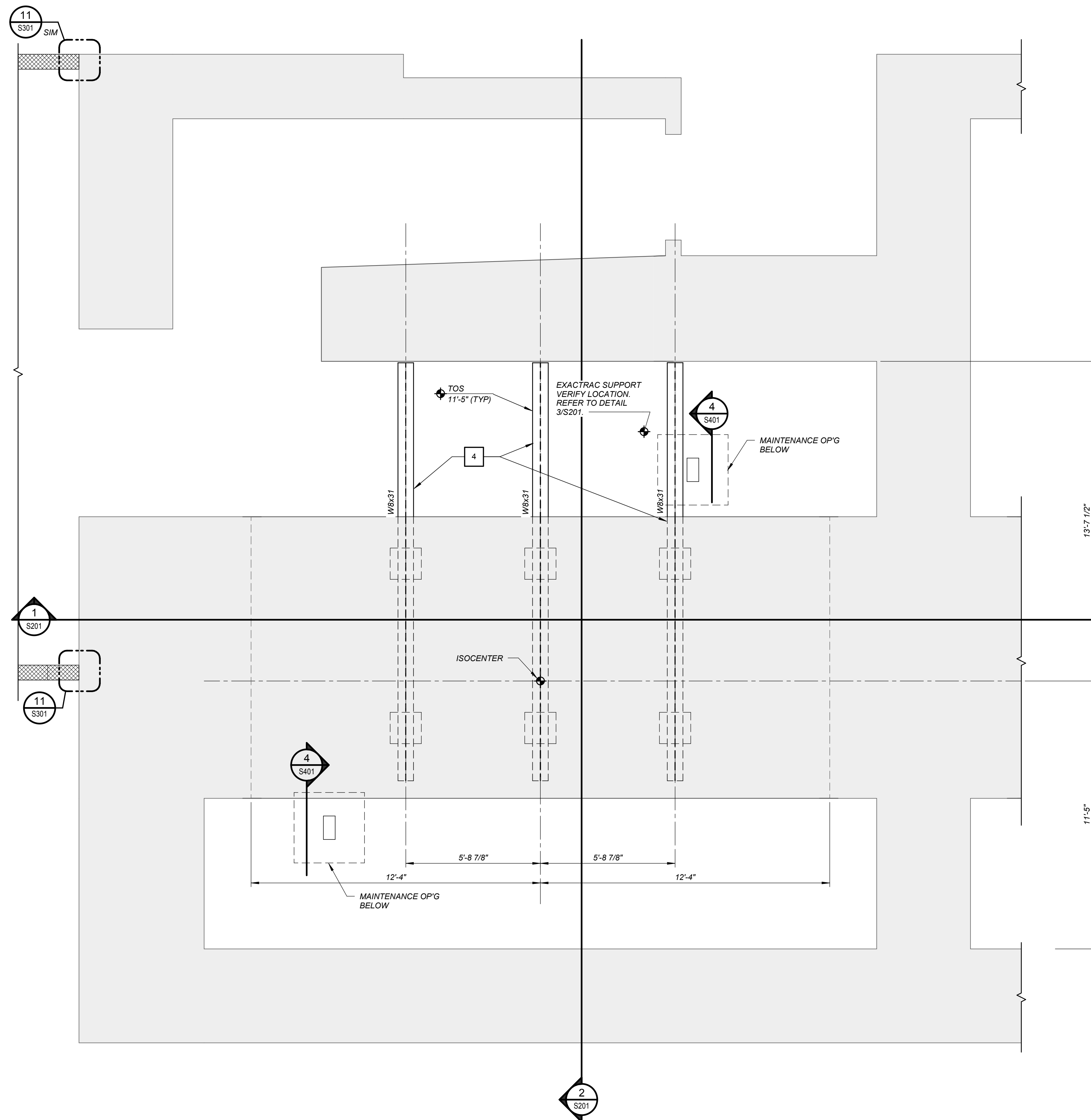


SCALE: 3/8" = 1'-0"

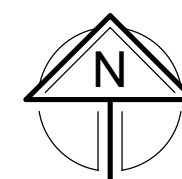


PLAN NOTES ARE TYPICAL FOR THIS DRAWING UNLESS SPECIFICALLY DESIGNATED OTHERWISE.


- | | |
|---|--|
| 1 | REFER TO DRAWING \$001 FOR STRUCTURAL DRAWING INDEX. |
| 2 | REFERENCE ELEVATION TO TOP OF STEEL BEAMS (TOS) IS Φ 11'-5" |
| 3 | REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, DETAILS AND LOCATIONS OF INTERIOR PARTITIONS, DOORS AND WINDOWS, AND TO VERIFY DEPTH AND EXTENT OF SLAB DEPRESSIONS. |
| 4 | LIFT CAPACITY = 11,000# (MINIMUM). |



NO SCALE



PLAN NOTES ARE TYPICAL FOR THIS DRAWING UNLESS SPECIFICALLY DESIGNATED OTHERWISE.

- | | | |
|---|---|--------|
| 1 | REFER TO DRAWING S001 FOR STRUCTURAL DRAWING INDEX. | |
| 2 | REFERENCE ELEVATION TO TOP OF STEEL JOISTS IS  16'-2 1/2" FOR TOP OF JOISTS OR BEAMS AT OTHER ELEVATIONS. TOP OF STEEL IS NOTED THUS (2 1/2") IN RELATION TO THE REFERENCE ELEVATION. | |
| 3 | ROOF DECK SHALL BE GALVANIZED 1.5B20 STEEL ROOF DECK OR APPROVED EQUAL CONFORMING TO SDI SPECIFICATIONS. REFER TO ROOF DECK DETAILS FOR ATTACHMENT PATTERN: | A
2 |
| 4 | USE STANDARD S/J CONTINUOUS TOP AND BOTTOM CHORD BRIDGING AT BRIDGING LINES INDICATED FOR ROOF JOISTS. PROVIDE AN ADDITIONAL SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF ALL JOISTS. ADD CONTINUOUS BOLTED 'X' BRIDGING WHERE INDICATED AND AS OTHERWISE REQUIRED TO COMPLY WITH S/J. | |
| 5 | CONTRACTOR SHALL VERIFY MECHANICAL OPENING DIMENSIONS WITH EQUIPMENT SUPPLIED. NOTIFY ENGINEER AND ARCHITECT IF DIMENSIONS VARY MORE THAN 1'-0". | |
| 6 | EXTERIOR MASONRY WALLS SHALL BE WT1. UNO. MASONRY WALL TYPES CONTINUE FROM FLOOR PLAN BELOW UNLESS NOTED OTHERWISE ON THE PLANS. IF NOT MARKED OR CONTINUED FROM THE LOWER FLOOR, WALLS SHALL BE WT1. | |
| 7 | PROVIDE PRE-CAST "J" LINTELS OVER ALL OPENINGS IN MASONRY WALLS. COORDINATE EXACT SIZE, LOCATION AND ELEVATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE MASONRY SCHEDULES AND DETAILS. | |

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UF UNIVERSITY of
FLORIDA

**Proton Therapy
LINAC Addition**
Shands Jacksonville Campus
UF LM-4985

Project Phase
100% Construction Documents

Sheet Title

PARTIAL ROOF FRAMING PLAN

Scale	Drawn By
As indicated	CSH

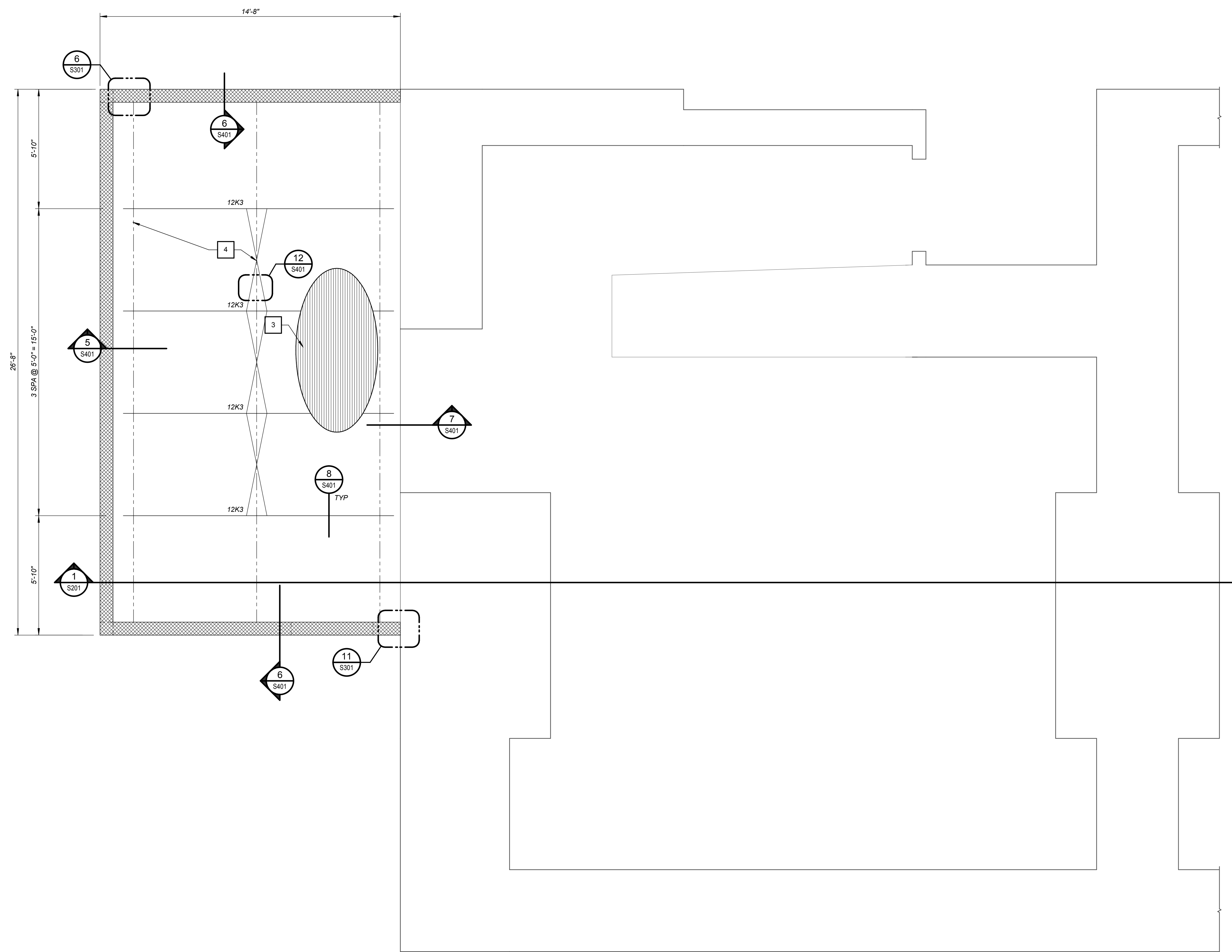
Date	Checked By
09 DEC 2011	RWG

AEI Project No.

11662-00

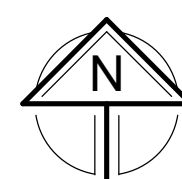
Sheet No.

S104



PARTIAL ROOF FRAMING PLAN

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





USE SPACERS OR WIRE TIES 9. 6
TO HOLD REINFORCING IN 6
PROPER POSITION. SPACE AT 7
INTERVALS NOT EXCEEDING 10. 5
192 BAR DIAMETERS OR 10'-0". 4

1. **NOTE:**
2. **SEE PLAN & SCHEDULE FOR FILLED CELL LOCATIONS, REINFORCING SIZE, AND SPACING.**
3. **BED WEBS AS WELL AS FACE SHELLS ADJACENT TO THE FILLED CELL SHALL BE REMOVED OR LEAKAGE TO ADJACENT CELLS UNLESS ADJACENT CELLS ARE ALSO TO BE FILLED.**
4. **SEE SPECIFICATIONS AND GENERAL NOTES FOR GROUT REQUIREMENTS.**
5. **ALL REINFORCING SHALL BE TIED OR SUPPORTED SECURELY IN POSITION. INSPECT REINFORCING AND CELL CONTINUITY PRIOR TO CLOSING CLAMP-OUTS.**
6. **IF POUR SHALL COMMENCE WITHIN 48 HOURS HAS ELAPSED SINCE THE SECTION OF THE WALL TO BE GROUTED HAS BEEN COMPLETED TO ITS FULL HEIGHT.**
7. **IF POUR SHALL BE USED TO PLACE GROUT FOR THE HIGH LIFT METHOD.**
8. **PLACE THE FIRST LIFT OF GROUT FOR A SECTION OF WALL TO MAXIMUM HEIGHT OF 5 FEET. VIBRATING THE GROUT THROUGH FILLED CELL WITHIN 10 MINUTES OF PLACEMENT.**
9. **PLACE THE NEXT SUCCESSIVE LIFT NOT LESS THAN 30 MINUTES NOR MORE THAN 60 MINUTES LATER AND REPEAT STEPS 8 AND 9. ON THE PREVIOUSLY PLACED LIFT. CONTINUE PLACING SUCCESSIVE LIFTS UNTIL GROUTING OF SECTION OF WALL IS COMPLETED TO TOP OF POOR.**
10. **SEE CMU WALL REINFORCING SCHEDULE FOR REQUIRED SPIRE LENGTHS.**

NOTES:

1. CLEAN OUT MORTAR DROPPINGS AT MIDDAY AND AT THE END OF EACH WORKING DAY. PLACE AND POSITION CELL REINFORCING AFTER FINAL CLEANOUT.
2. PLACE REINFORCING IN CELLS AFTER LAYING MASONRY.
3. SEE GENERAL NOTES AND SPECIFICATIONS FOR INSPECTION & ADDITIONAL REQUIREMENTS.

NOTES:

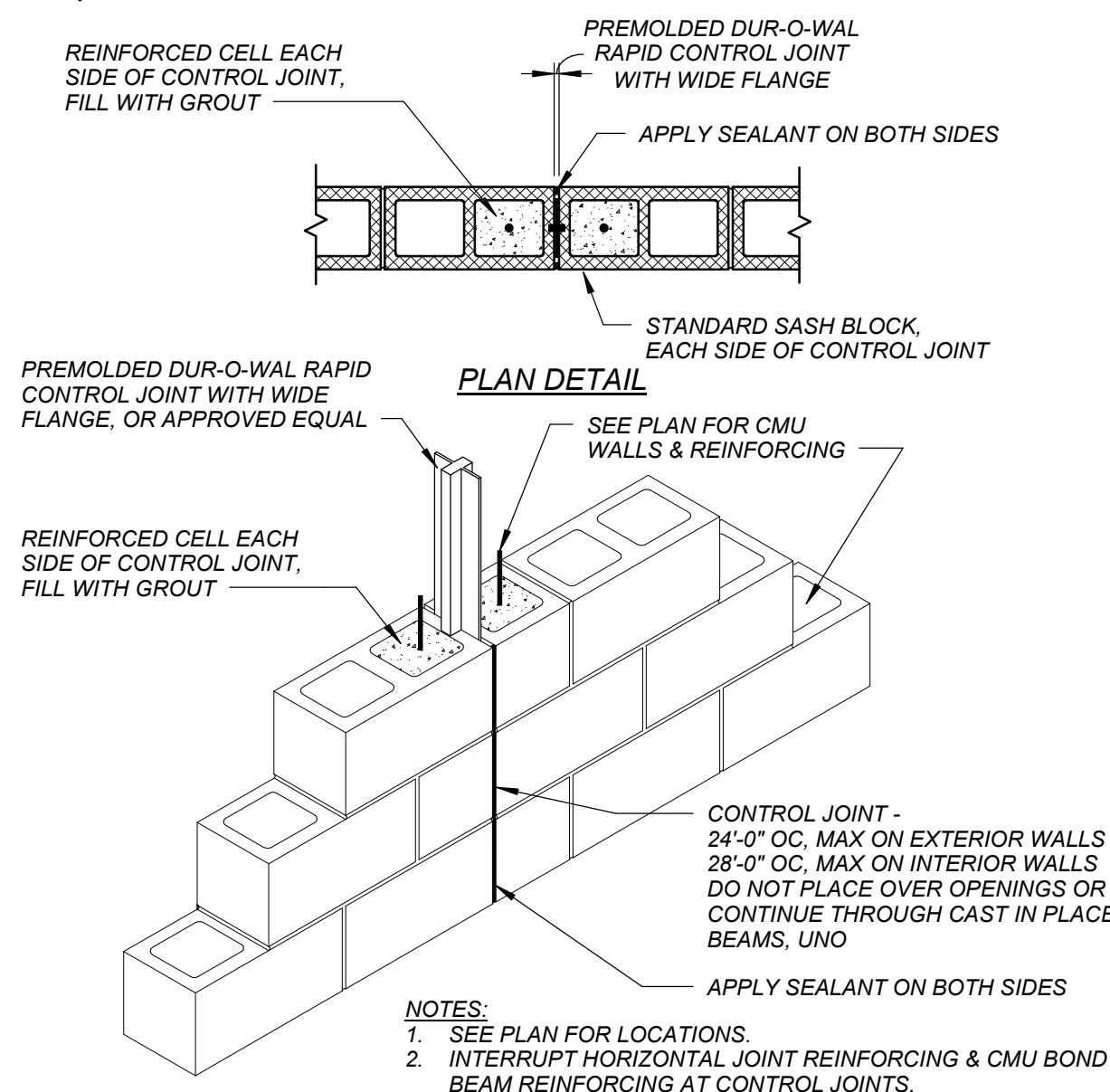
1. CONSTRUCT WALL IN LIFTS, GROUTING CELLS AND HORIZONTAL BOND BEAMS PRIOR TO LAYING BLOCK ABOVE.
2. BOND BEAMS MAY NOT OCCUR IN ALL LIFTS. REFER TO PLANS AND WALL SECTIONS FOR BOND BEAM LOCATIONS.

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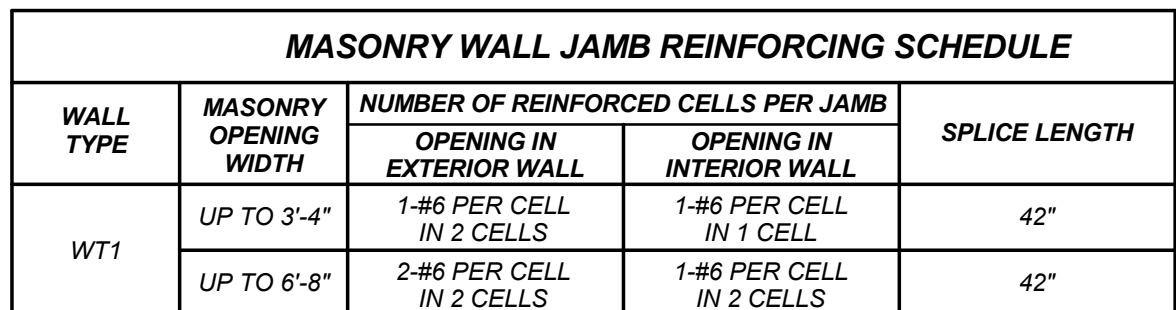


ENGINEER OF RECORD
ROBERT W. GIVENS, P.E. FL. P.E. NO. 3196

S301	NO SCALE
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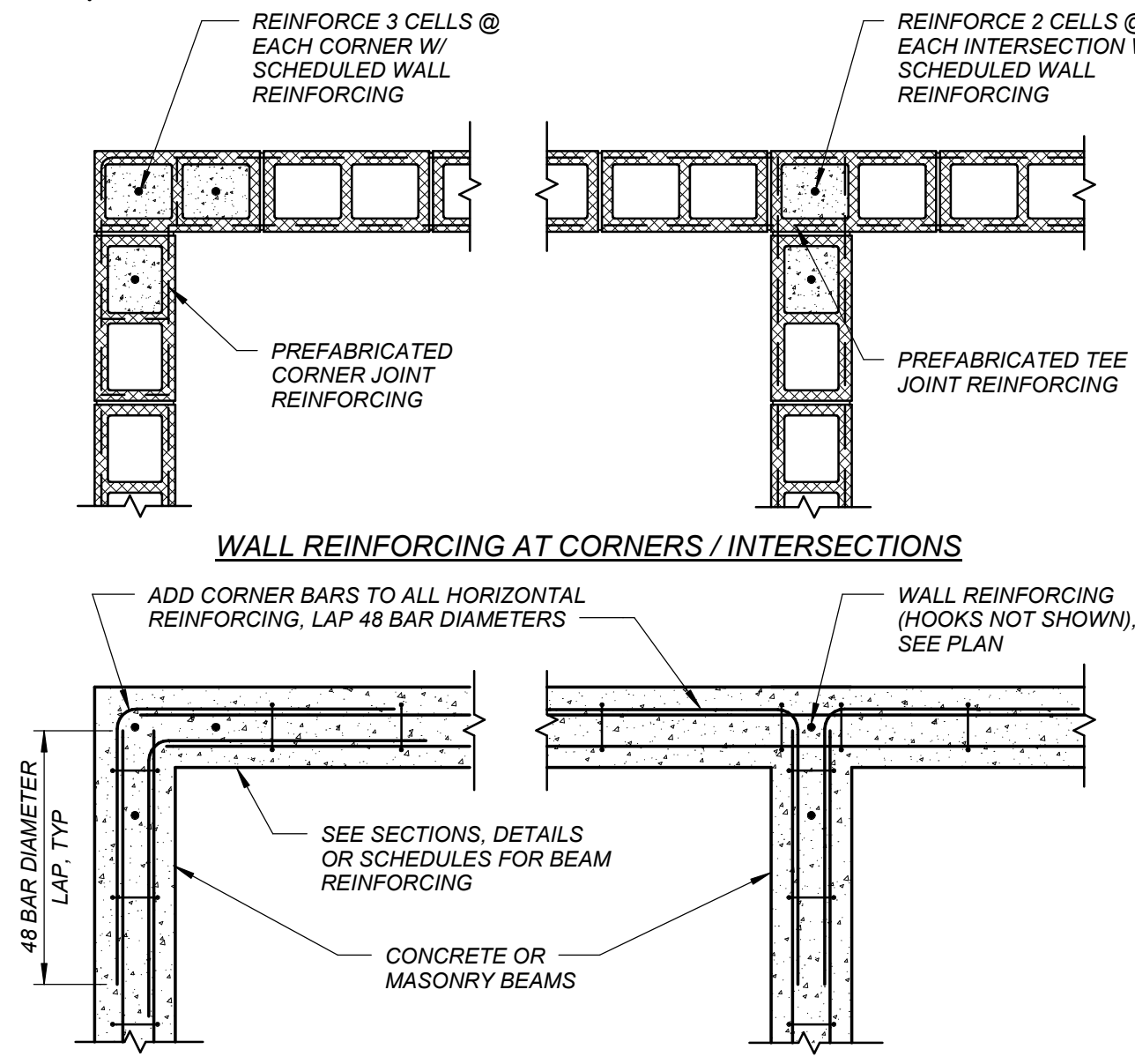


S301	NO SCALE
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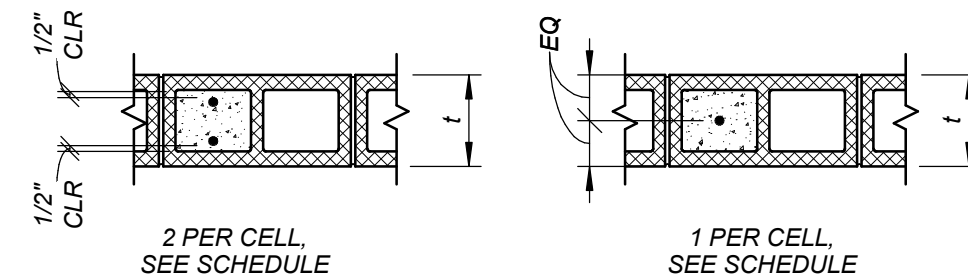


S301	NO SCALE
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S301	NO SCALE
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S301	NO SCALE
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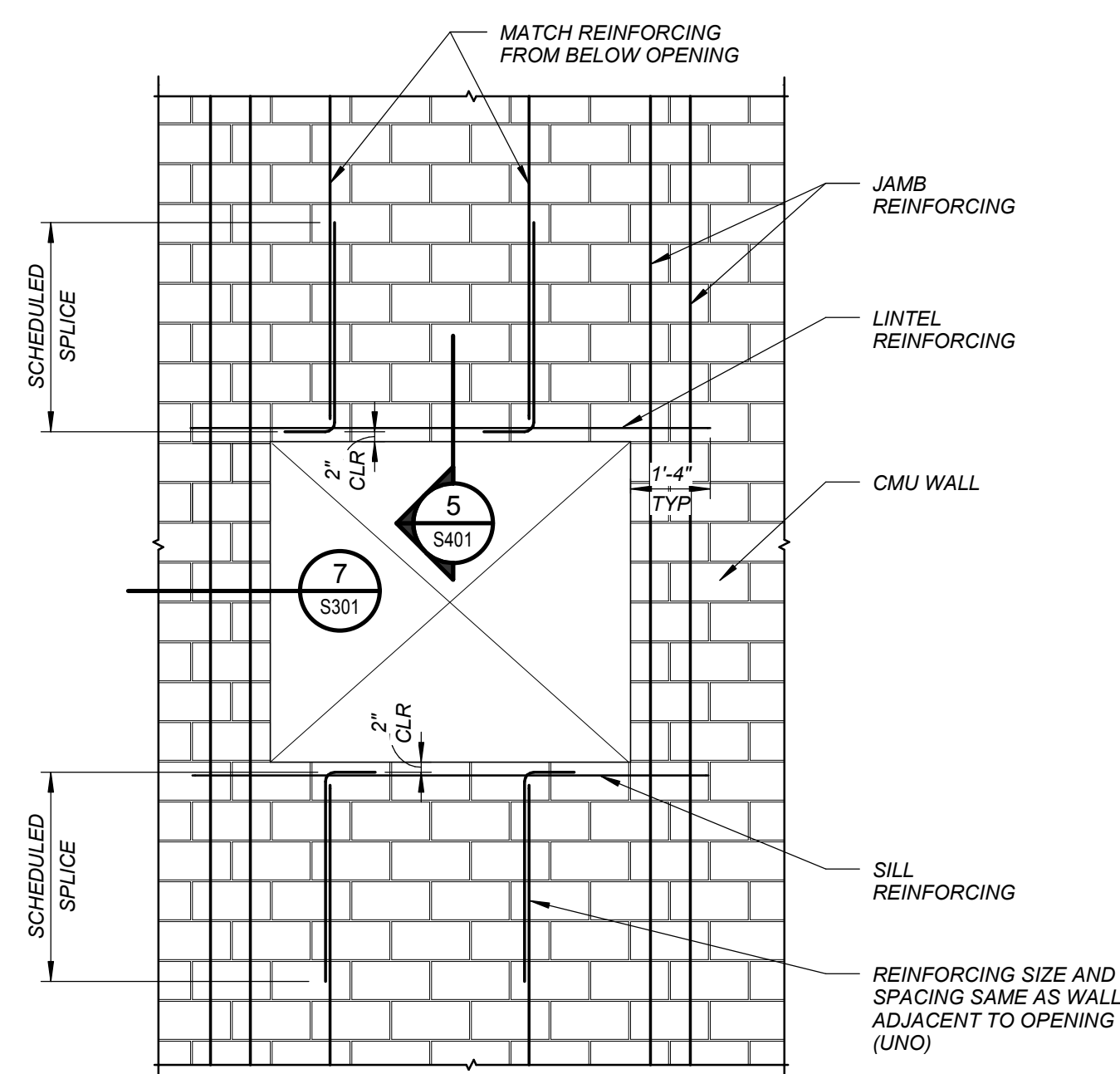
MASONRY WALL REINFORCING SCHEDULE						
WALL TYPE	WALL THICKNESS "t"	VERTICAL REINF.	MAXIMUM SPACING	SPLICE LENGTH	HJR SPACING	REMARKS
WT1	7 5/8"	1-#6	16"	42"	16"	

*SEE SEPARATE DETAIL/SCHEDULE FOR JAMB REINFORCING

- NOTES:**
1. VERTICAL REINFORCING SHALL RUN FROM FOOTING TO 4" CLEAR FROM TOP OF UPPERMOST SUPPORTED BEAM (ROOF BEAM OR OPENING LINTEL). VERTICALS MAY BE LAP SPICED AS REQUIRED FOR EASE OF BLOCK INSTALLATION. PROVIDE HOOKED DOWEL FROM FOOTING OR SUPPORT BEAM AT EACH FILLED BLOCK CELL. PROVIDE HOOK AT TOP OF VERTICAL. EACH POUR OF GROUT SHALL BE STOPPED AT LEAST 1 1/2" BELOW THE TOP OF THE LAST COURSE OF BLOCK Laid (EXCEPT AT PRECAST LINELS).
2. SEE TYPICAL DETAILS AND CODE REQUIREMENTS FOR CLEAN-OUTS.

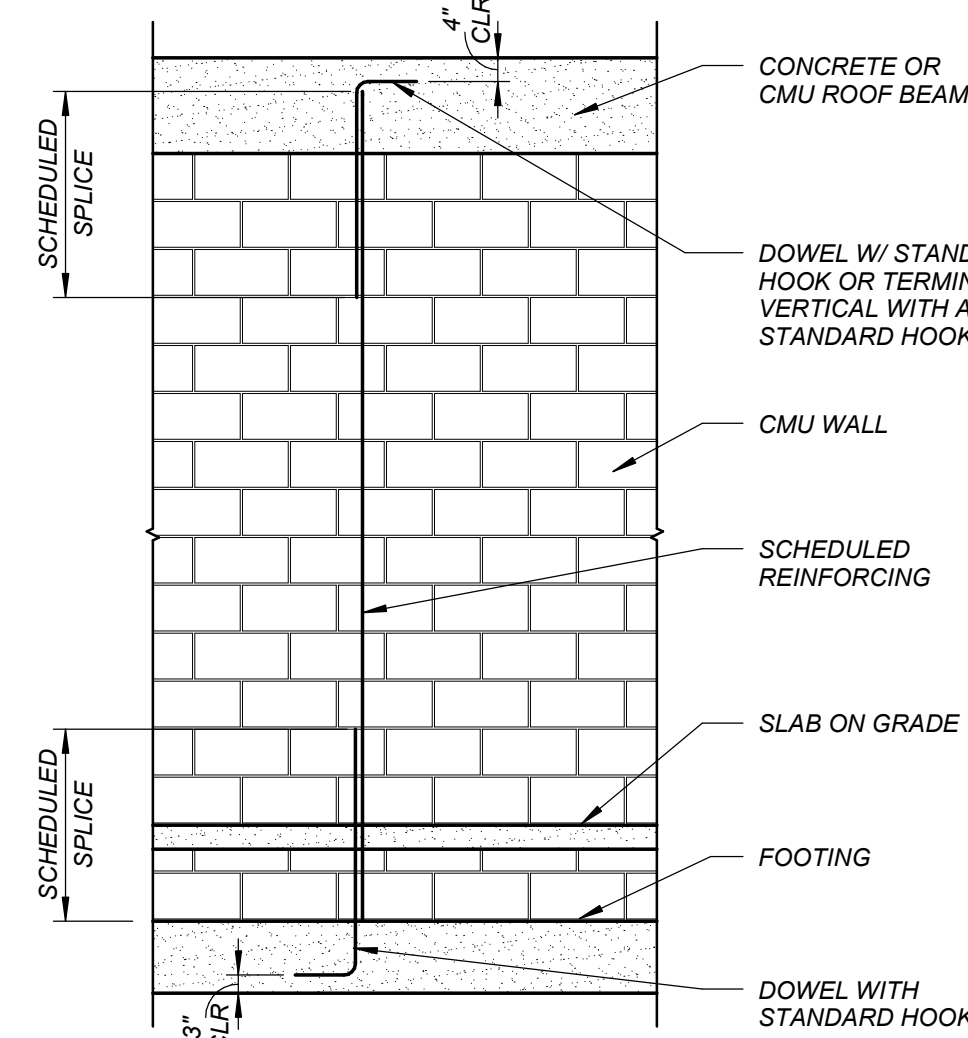
S301	NO SCALE
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S301	NO SCALE
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- NOTES:**
1. REFER TO PLANS AND SCHEDULES FOR SIZE, NUMBER AND LOCATION OF VERTICAL REINFORCING.
 2. CLEAN-OUTS AND HJR NOT SHOWN BUT ARE REQUIRED, SEE SPECIFICATIONS.
 3. SPLICE LOCATIONS ARE DIAGRAMMATIC. SPLICE AS REQUIRED.

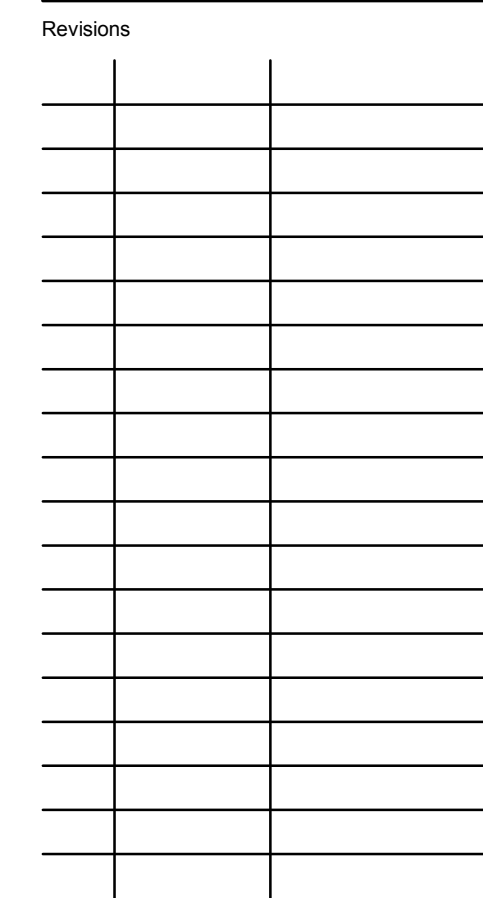
S301	NO SCALE
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- NOTES:
1. REFER TO PLANS AND SCHEDULES FOR SIZE, NUMBER AND LOCATION OF VERTICAL REINFORCING.
 2. CLEAN-OUTS AND HJR NOT SHOWN BUT ARE REQUIRED, SEE SPECIFICATIONS
 3. SPLICE LOCATIONS ARE DIAGRAMMATIC. SPLICE AS REQUIRED.

AT SINGLE STORY WALL

S301	NO SCALE
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Project



**Proton Therapy
LINAC Addition**
Shands Jacksonville Campus
UF LM-4985

Project Phase
100% Construction Documents

Sheet Title

MASONRY SECTIONS AND DETAILS

Scale	Drawn By
As indicated	CSH

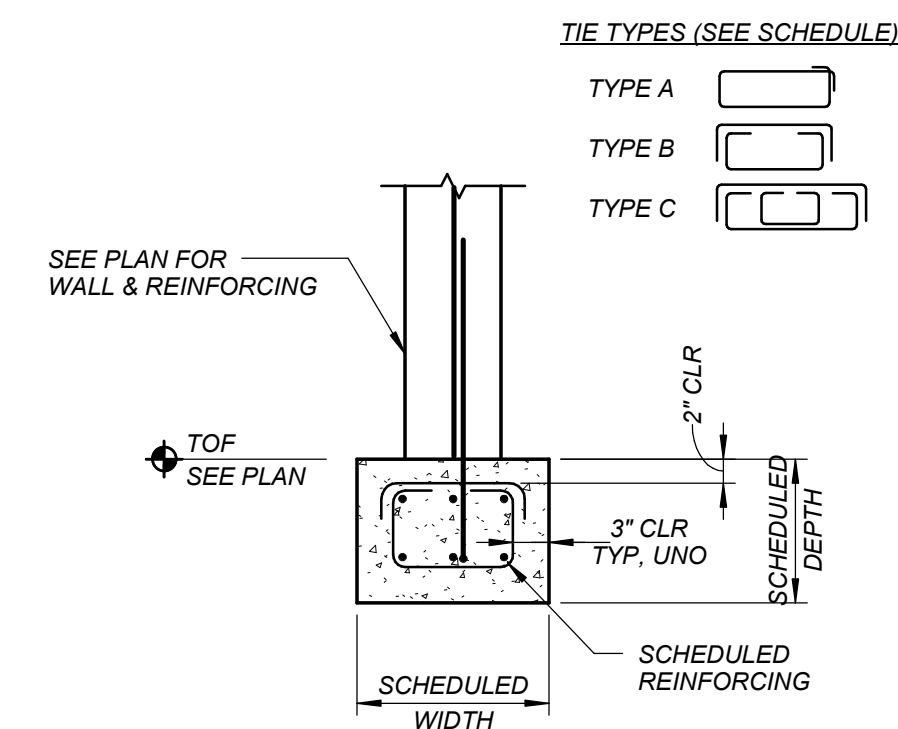
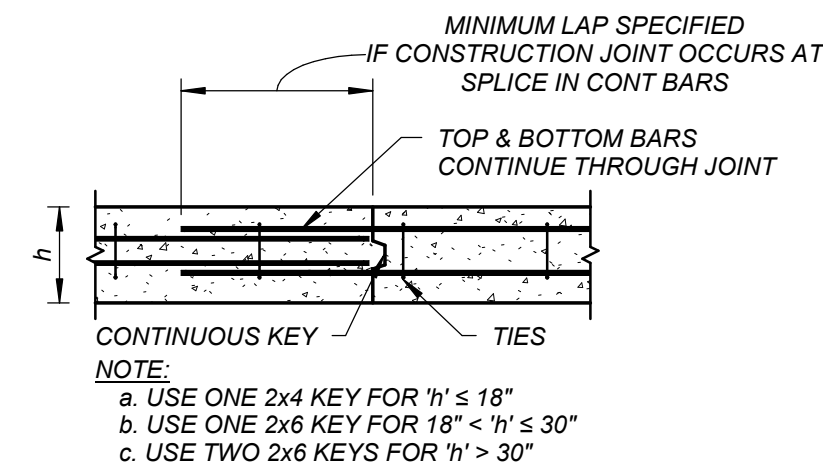
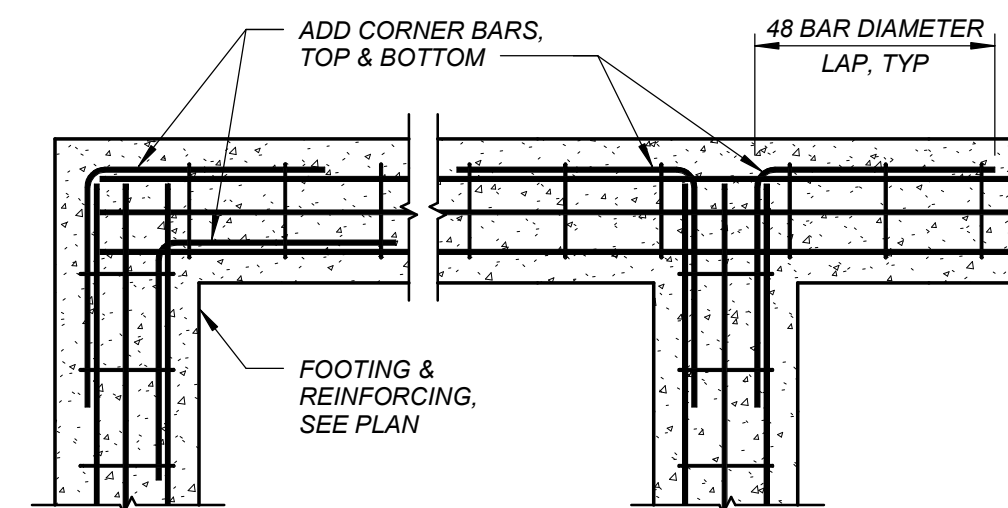
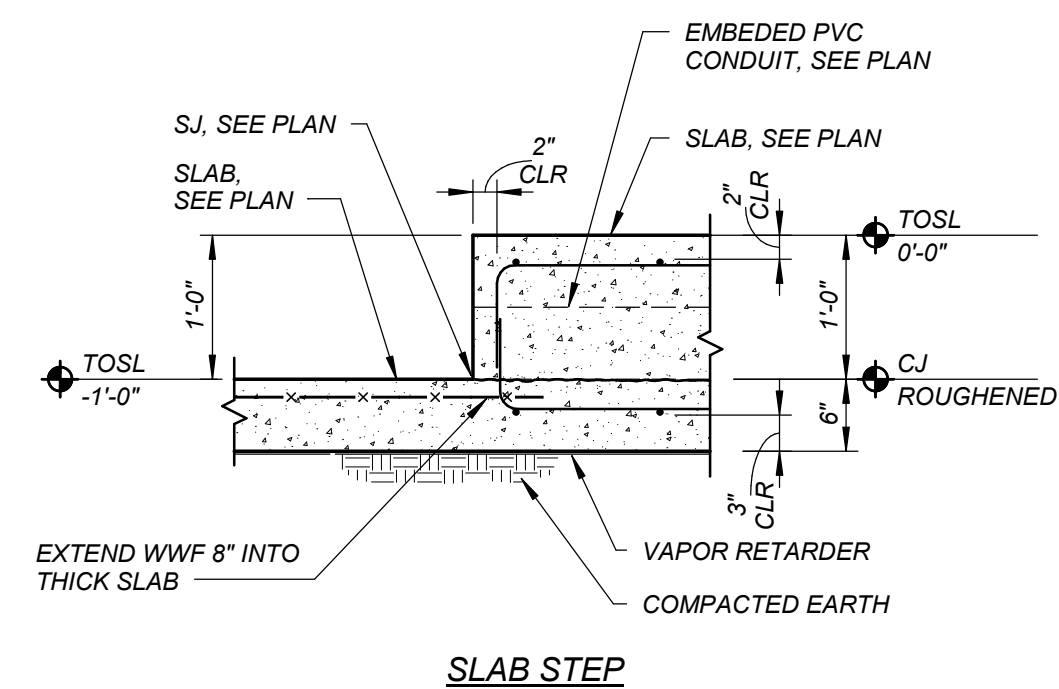
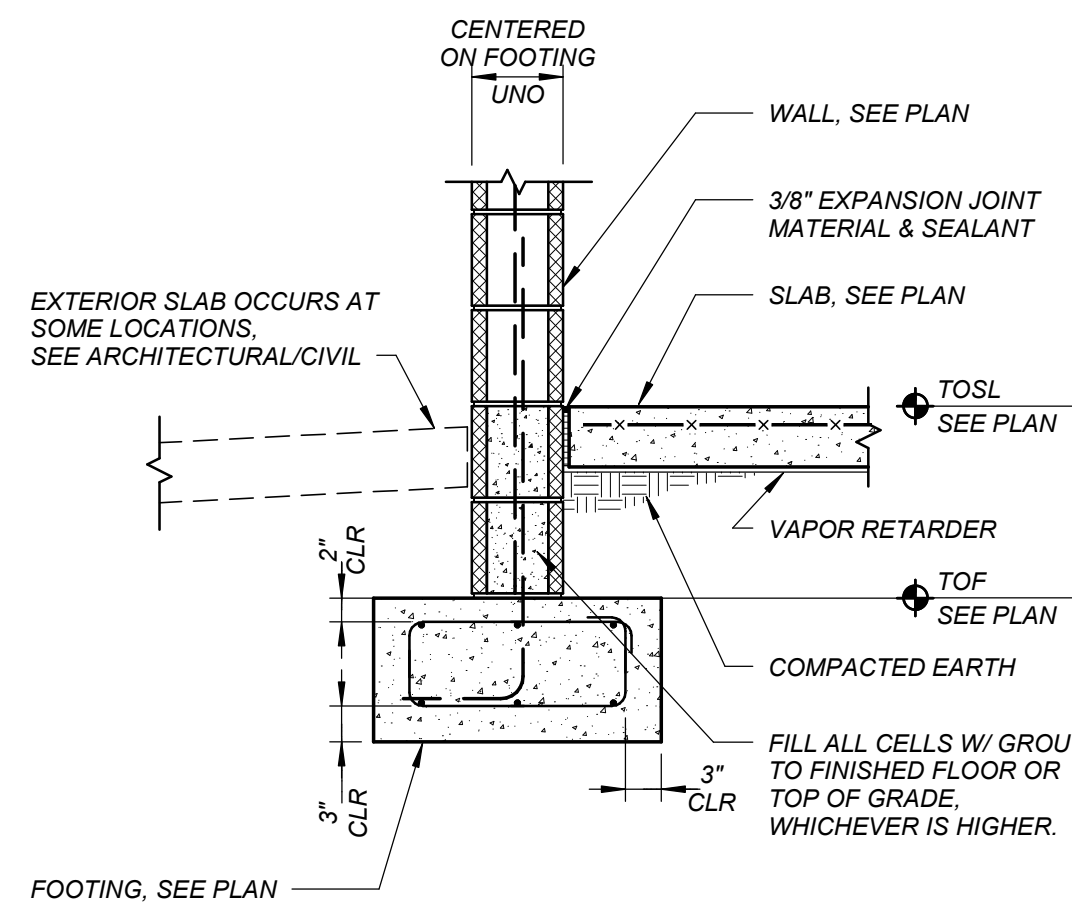
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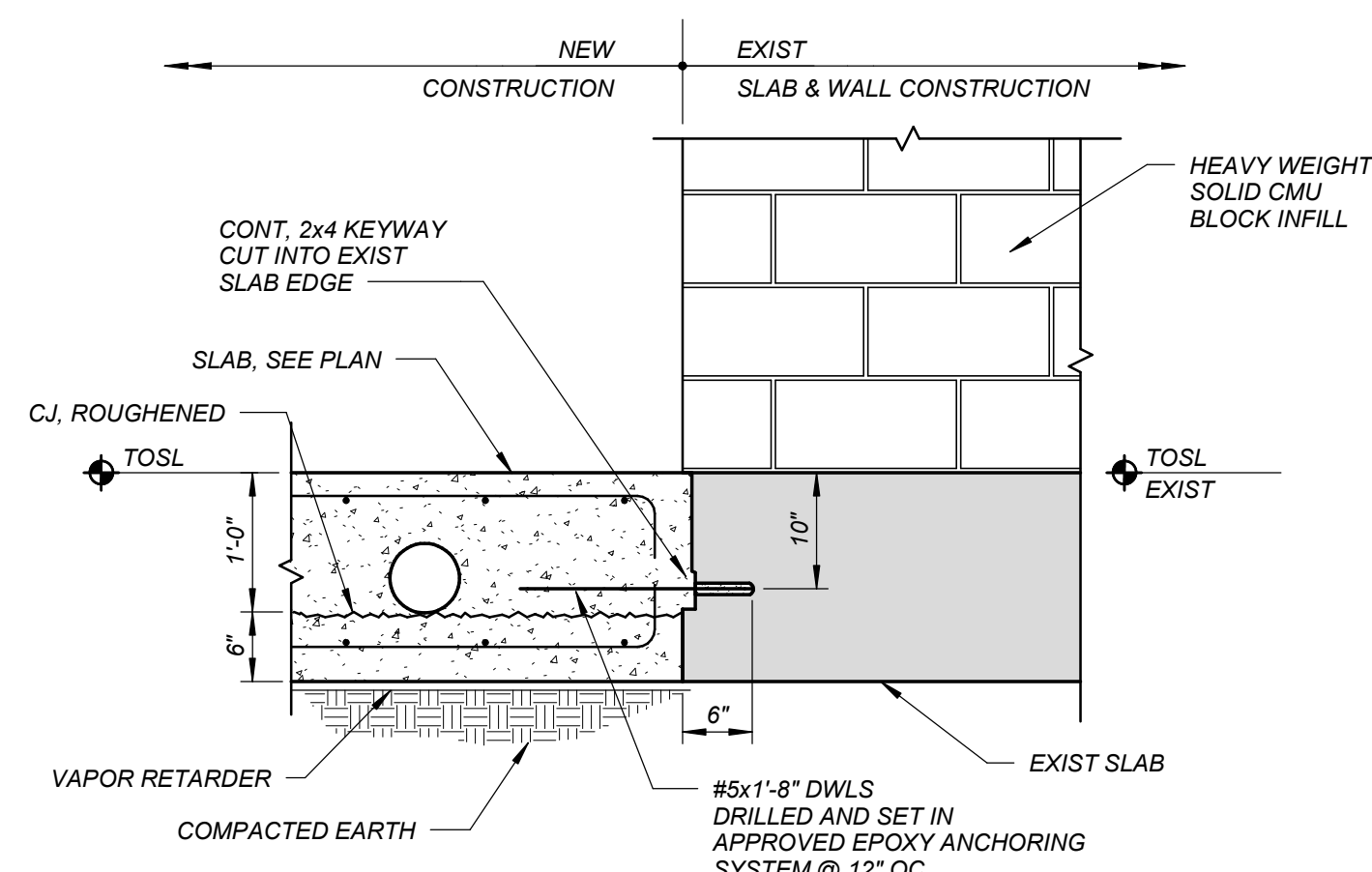
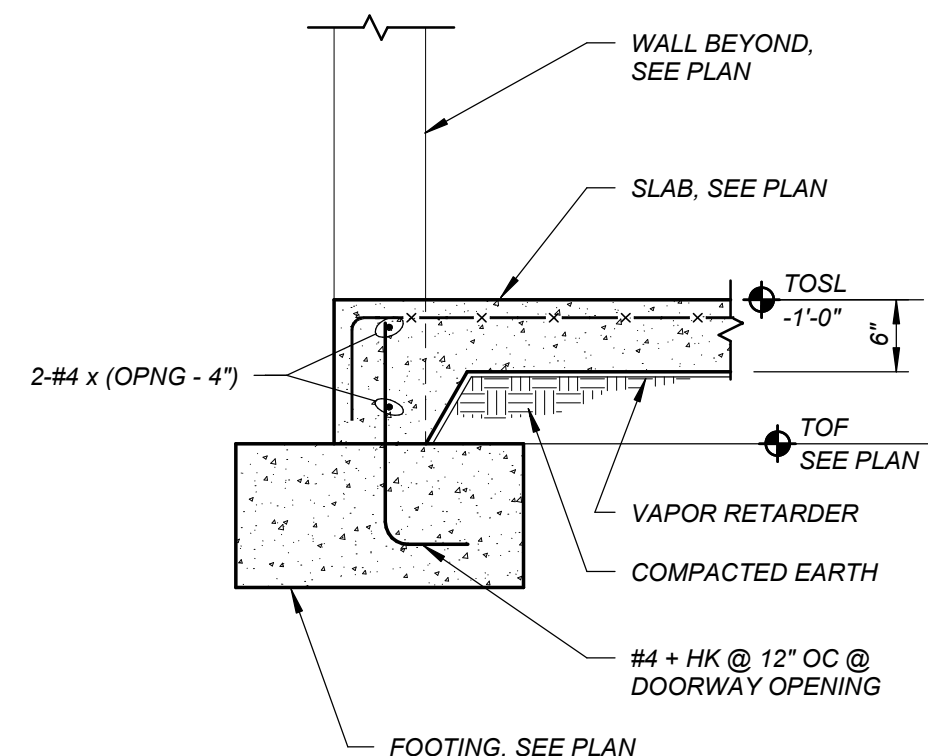
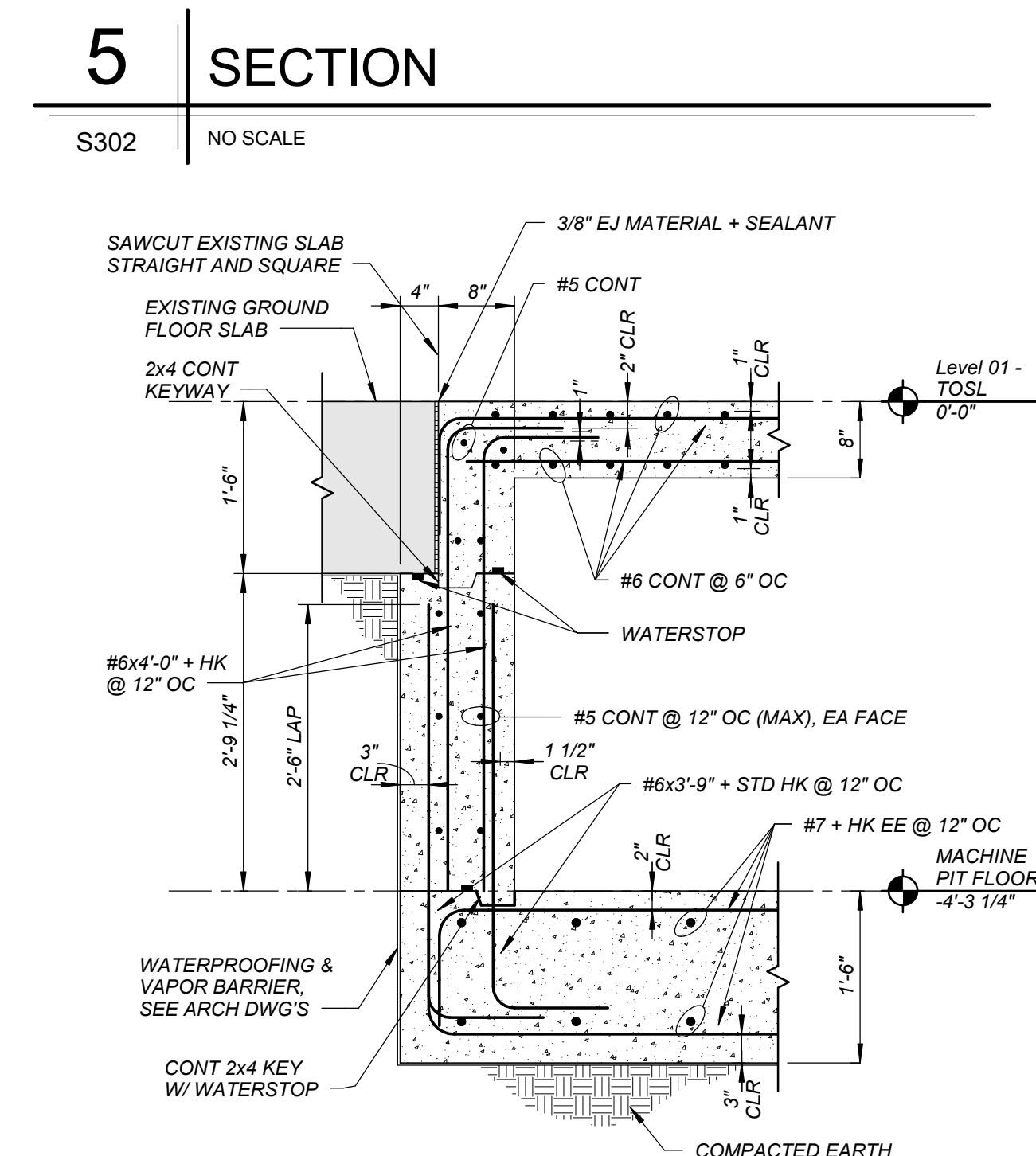
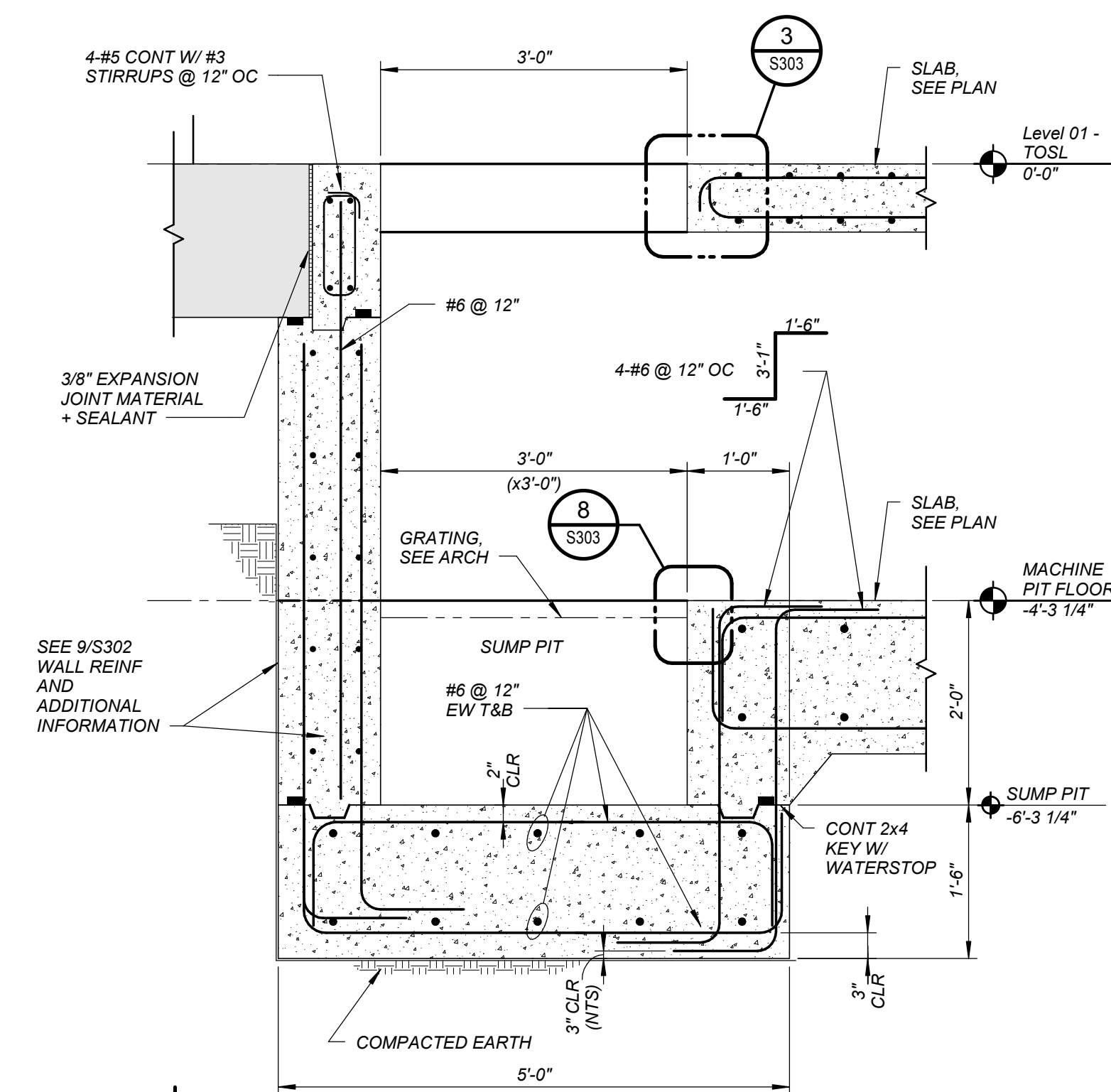
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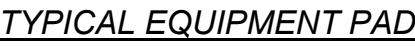
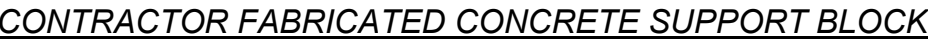
S301



- NOTES:**
1. WALL IS CENTERED ON FOOTING, UNO.
 2. DOWELS SHALL BE TIED IN THE PROPER LOCATION PRIOR TO CONCRETE PLACEMENT.
 3. EXTEND WALL FOOTING REINFORCING THROUGH COLUMN FOOTING OR 40 BAR DIAMETERS (2'-0" MIN) INTO COLUMN FOOTING.
 4. 12 ALL CONTINUOUS REINFORCING 40 BAR DIAMETERS (2'-0" MIN)
 5. REFER TO CONCRETE SUPPORT BLOCK DETAIL FOR ADDITIONAL INFORMATION.
 6. ALL FOOTING MARKS MAY NOT BE USED ON THIS PROJECT.

WALL FOOTING SCHEDULE								
MARK	WIDTH	DEPTH	TOP BARS	BOT. BARS	TIES			REMARKS
					TYPE	SIZE	SPACING	
WF2.0	2'-0"	1'-0"	3-#4	3-#4	B	#3	12"	

[illegible]



1. ADD HALF OF THE PARALLEL INTERRUPTED BARS ON EACH SIDE OF THE OPENING & ENSURE THAT MINIMUM REINFORCING REQUIREMENTS ARE MET. ADDITIONAL REINFORCING SHALL BE NOT LESS THAN THE FOLLOWING:
 - a. 2#5 MIN @ SLABS $\leq 10"$ THICK, (1 TOP & BOTTOM, EACH WAY)
 - b. 2#7 MIN @ SLABS $> 10"$ THICK, (1 TOP & BOTTOM, EACH WAY)
2. EXTEND REINFORCING 48 BAR DIAMETERS BEYOND THE OPENING OR PROVIDE A STANDARD HOOK AT THE SLAB EDGES AROUND THE OPENING.

TYPICAL SMALL SLAB OPENING



- NOTES:**
1. **ADD HALF OF THE PARALLEL INTERRUPTED BARS ON EACH SIDE OF THE OPENING. THE BARS ARE THE MINIMUM REQUIRED BAR REQUIREMENTS ARE MET. ADD REINFORCING SHALL BE NOT LESS THAN THE FOLLOWING:**
 - a. 2-#5 MIN @ WALLS \leq 12" THICK, (1 EACH FACE, EACH WAY)
 - b. 2-#7 MIN @ WALLS $>$ 12" THICK, (1 EACH FACE, EACH WAY)
 2. **EXTEND REINFORCING 48 BAR DIAMETERS BEYOND THE OPENING OR PROVIDE A STANDARD HOOK AT THE WALL EDGES AROUND THE OPENING.**

TYPICAL SMALL WALL OPENING ELEVATION

S303	NO SCALE
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S303	NO SCALE
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S303 | NO SCALE

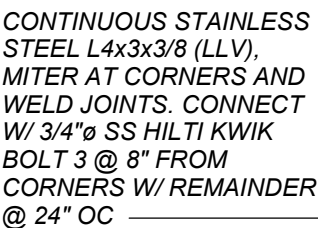
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TYPICAL WALL CONSTRUCTION JOINTS



NOTED THUS "\$" ON PLAN



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S303	NO SCALE
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S303 NO SCALE

NOTE:
SEE SECTIONS, DETAILS, ETC FOR REINFORCING LAYERING REQUIREMENTS, TYPICAL

Affiliated Engineers, Inc.
3007 SW Williston Rd.
Gainesville, Florida 32608
Tel 352.376.5500 Fax 352.375.3479
www.aeieng.com
FL Cert of Auth - 0005140



Structural
Structural Engineers Group, Inc.
4114 Sunbeam Rd, Bldg 200
Jacksonville, Florida 32257
Tel 904.262.4000 Fax 904.262.4100
www.segonline.com
Cert of Auth - 6523



ENGINEER OF RECORD
ROBERT W. GIVENS, P.E. FL. P.E. NO. 3196

[illegible]

Project
UF | UNIVERSITY of
FLORIDA

**Proton Therapy
LINAC Addition**
Shands Jacksonville Campus
UF LM-4985

Project Phase
100% Construction Documents

Sheet Title

CONCRETE SECTIONS AND DETAILS

Scale	Drawn By
As indicated	CSH

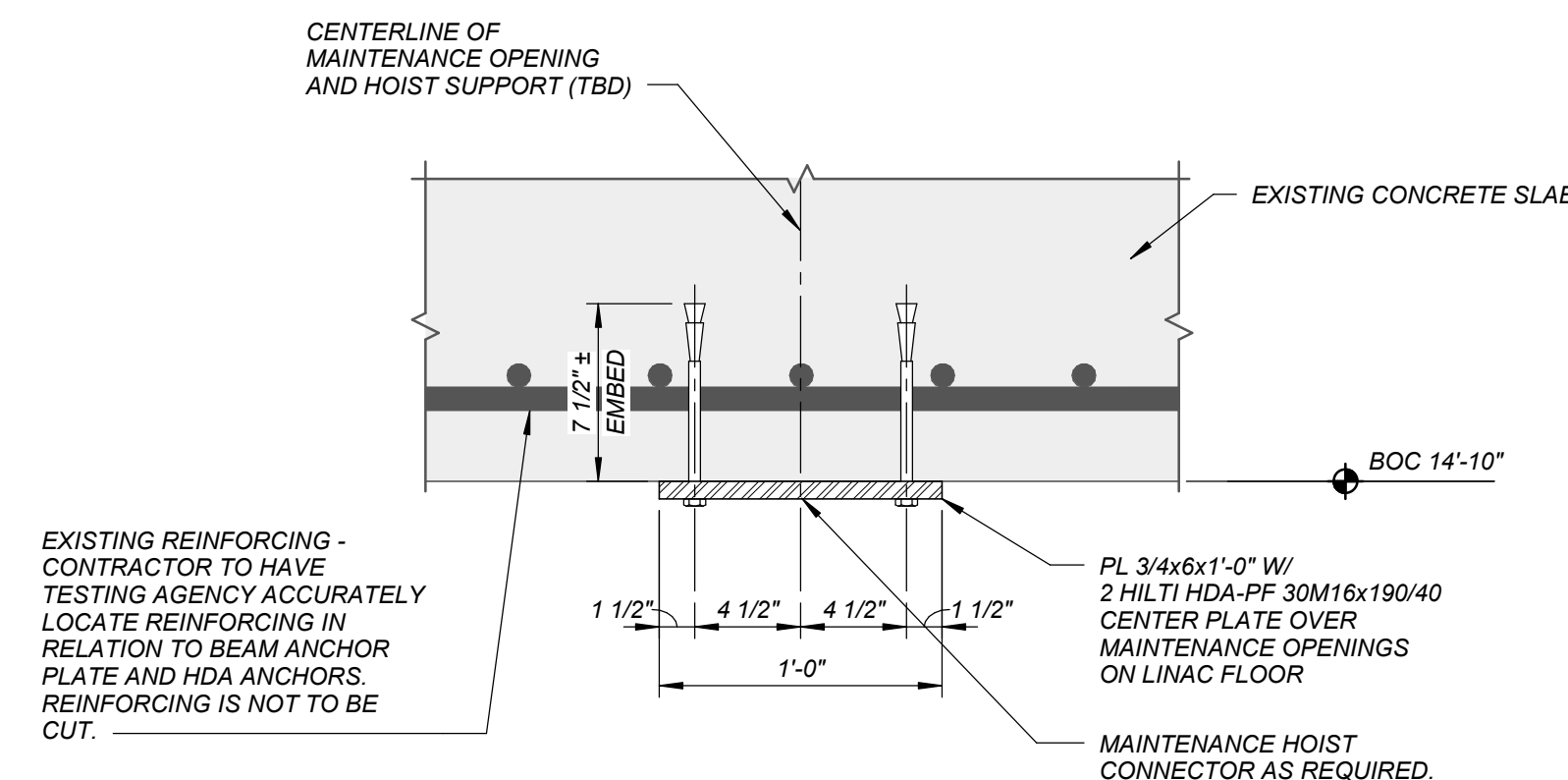
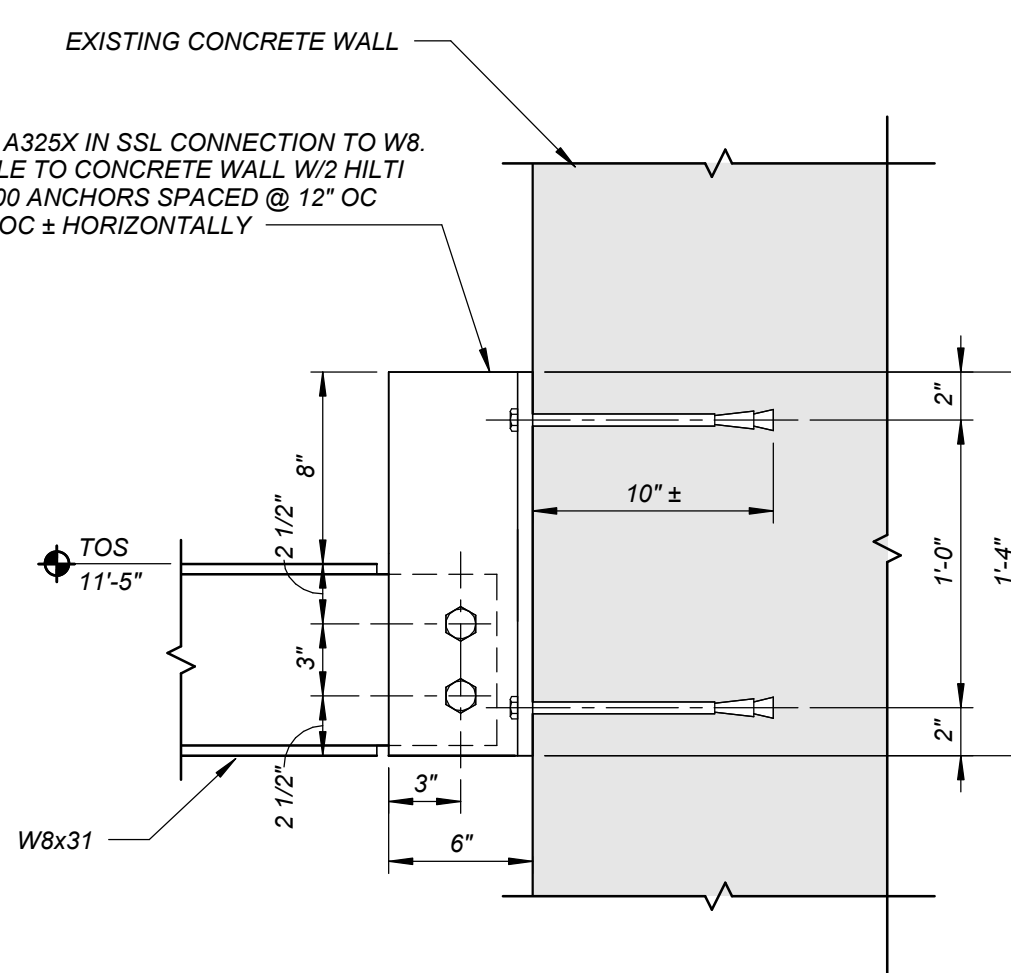
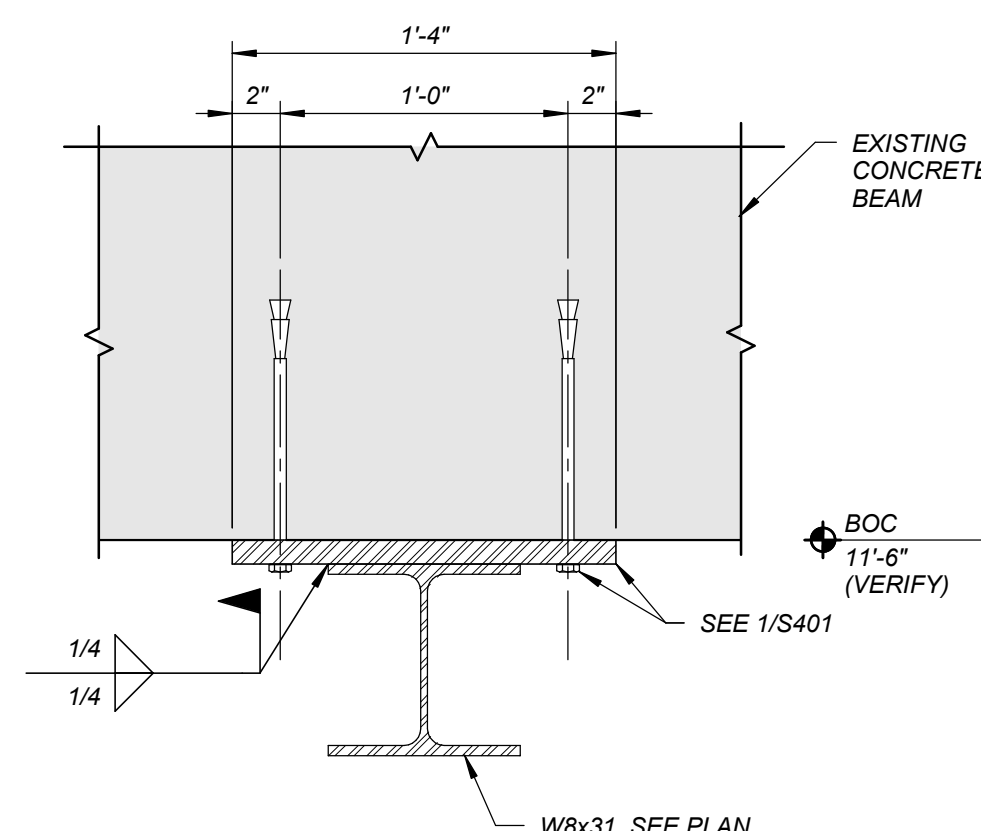
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09 DEC 2011	RWG

AEI Project No.

11662-00

Sheet No.

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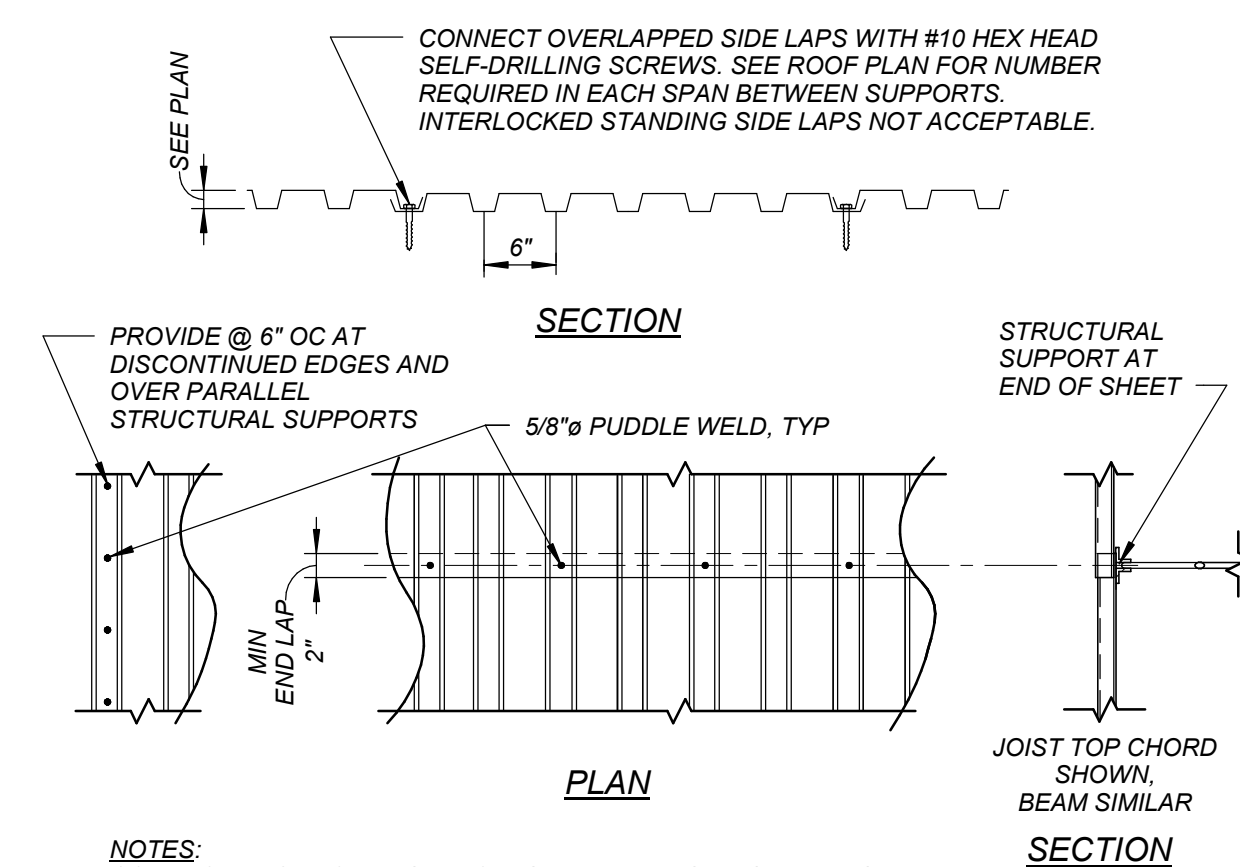
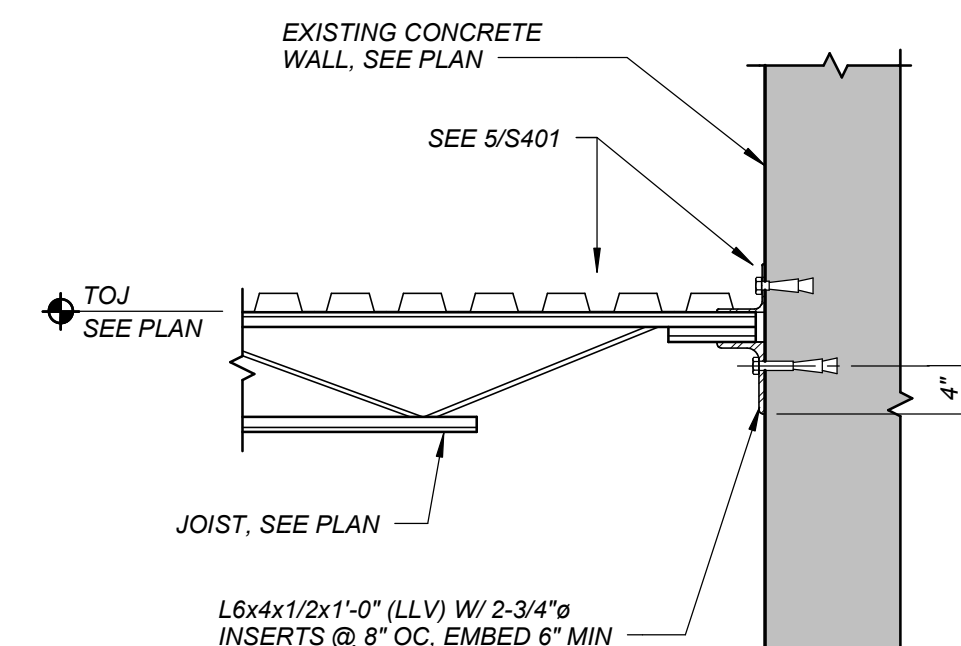
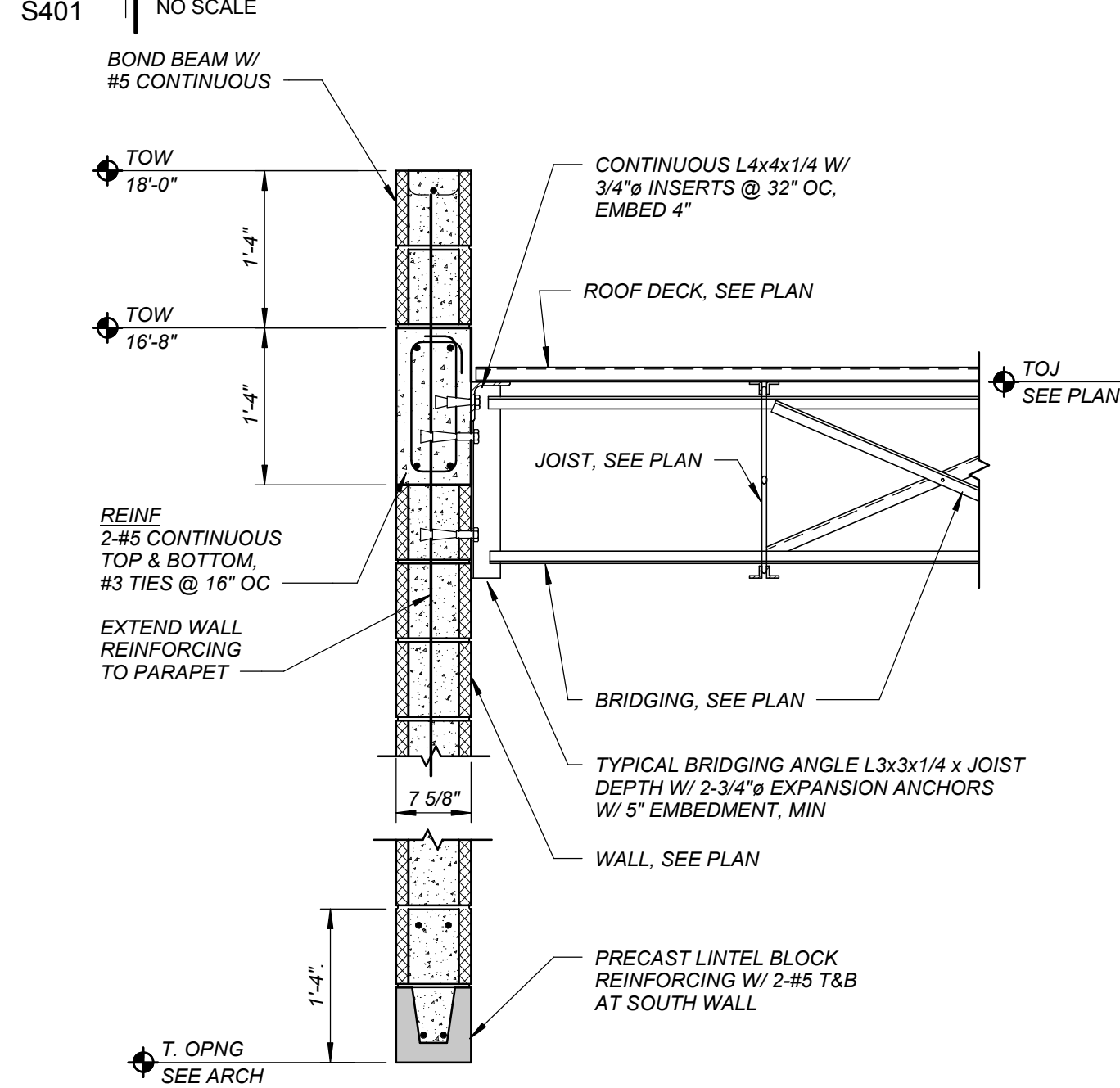


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NOTES:
CONNECT DECK TO ALL SUPPORTS BY WELDING AT SIDE LAPS AND AT INTERMEDIATE RIBS AT THE FOLLOWING SPACINGS:

PATTERN 'A' AT 6" ON CENTER (EVERY RIB)
PATTERN 'B' AT 12" ON CENTER (EVERY OTHER RIB)

SEE ROOF PLAN FOR LOCATIONS OF WELDING PATTERN
& THE NUMBER OF SIDE LAP SCREWS BETWEEN SUPPORTS

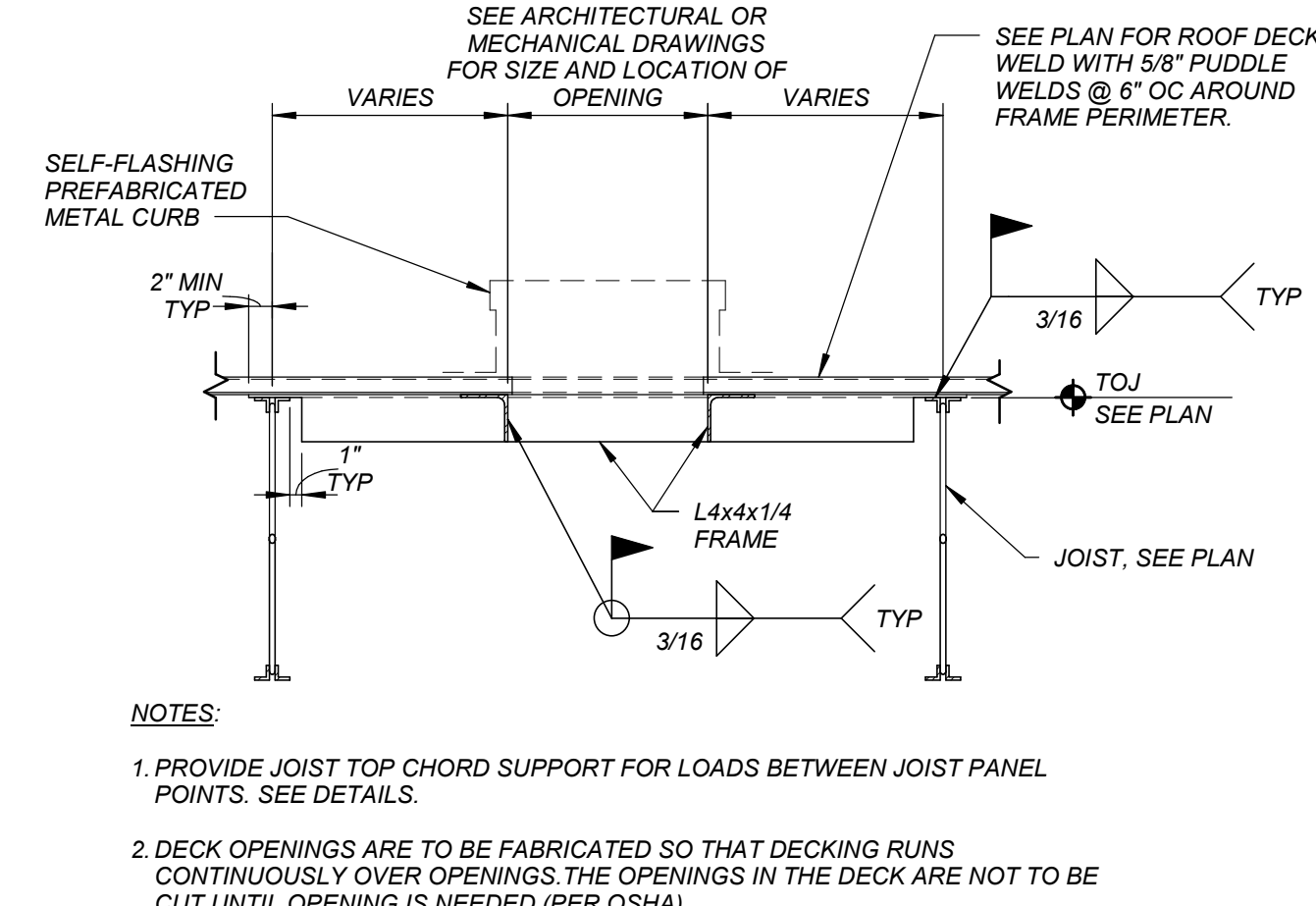
TYPICAL ROOF DECK DIAPHRAGM ATTACHMENT

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S401	NO SCALE
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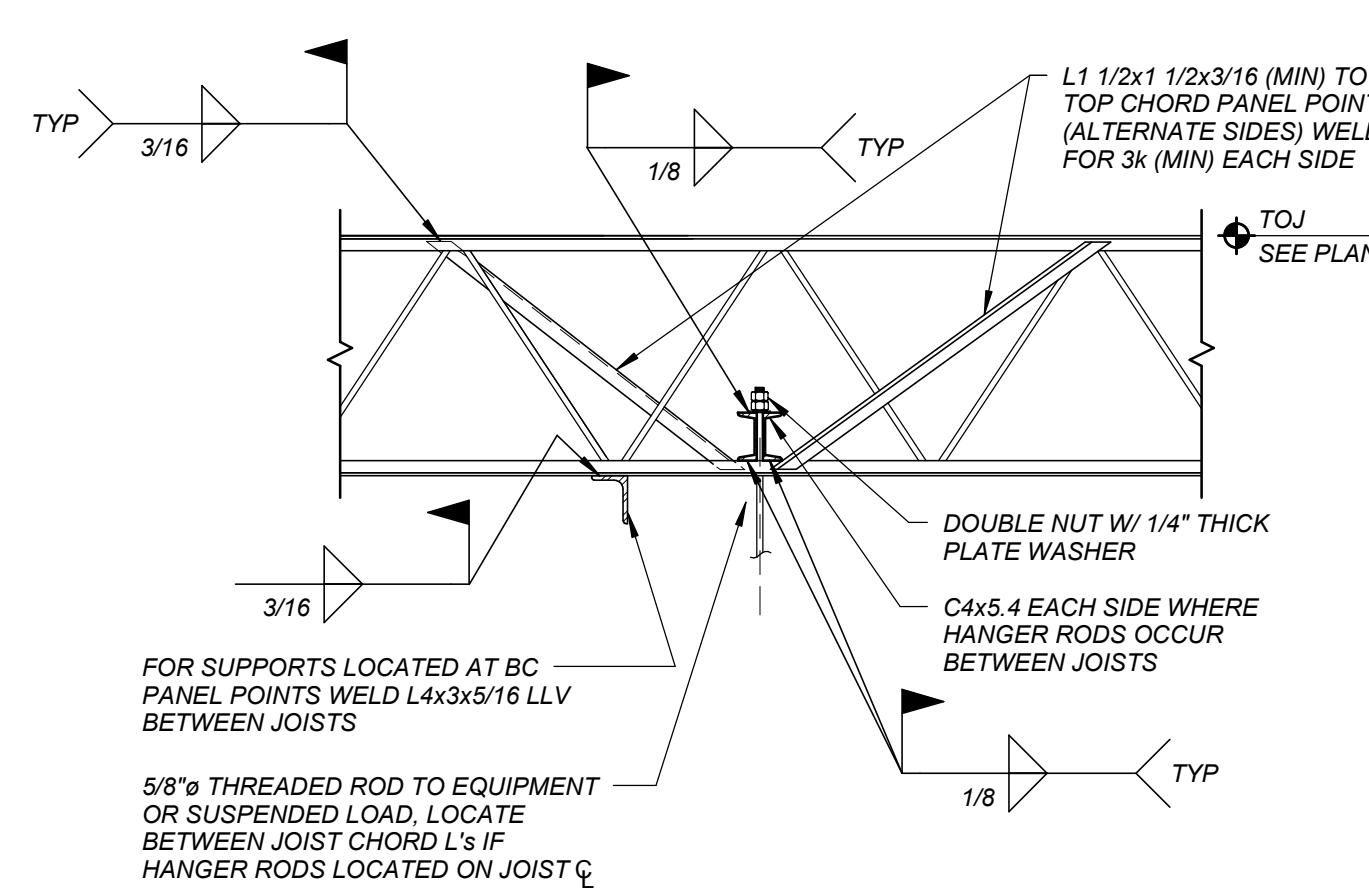
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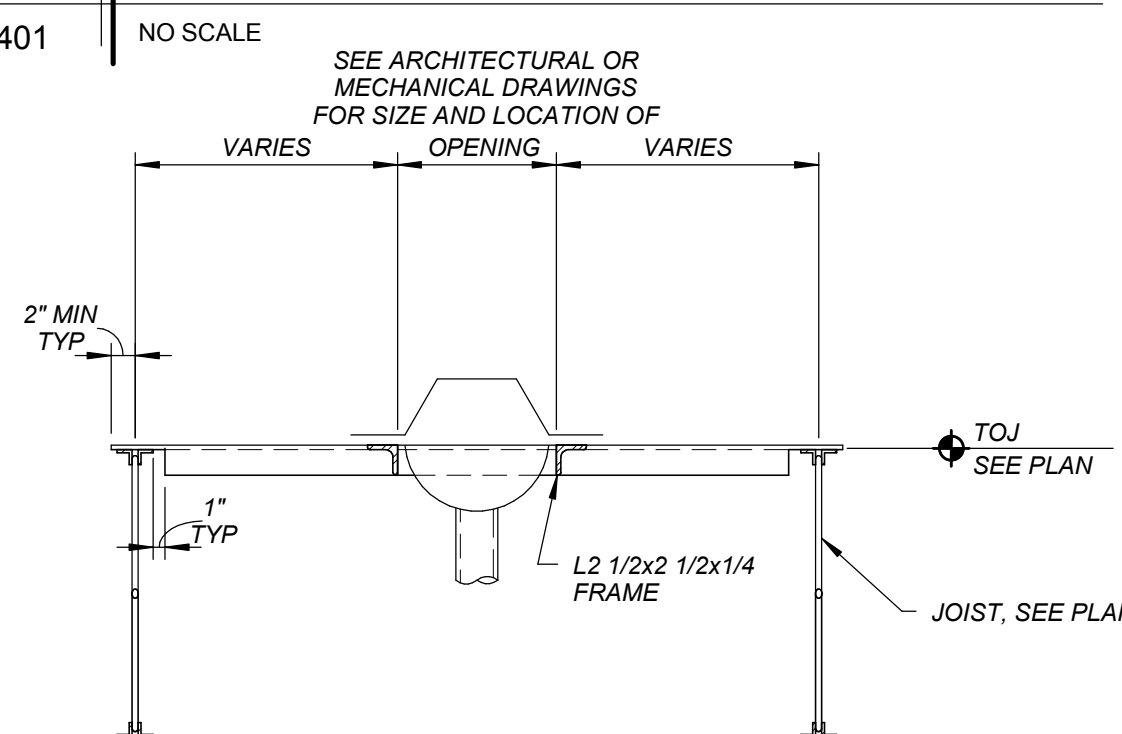
NOTES

1. PROVIDE JOIST TOP CHORD SUPPORT FOR LOADS BETWEEN JOIST PANEL POINTS. SEE DETAILS.
2. DECK OPENINGS ARE TO BE FABRICATED SO THAT DECKING RUNS CONTINUOUSLY OVER OPENINGS. THE OPENINGS IN THE DECK ARE NOT TO BE CUT UNTIL OPENING IS NEEDED (PER OSHA).

NOTE:
USE THIS DETAIL WHEN SUPPORTING MISCELLANEOUS MINOR
CONCENTRATED LOADS, OR FOR LOADS SHOWN ON FRAMING PLANS
FROM JOIST BOTTOM CHORDS.



NOTE:
USE THIS DETAIL WHEN SUPPORTING MISCELLANEOUS MINOR
CONCENTRATED LOADS, OR FOR LOADS SHOWN ON FRAMING PLANS
FROM JOIST BOTTOM CHORDS.



NOTES

1. DECK OPENINGS ARE TO BE FABRICATED SO THAT DECKING RUNS CONTINUOUSLY OVER OPENINGS. THE OPENINGS IN THE DECK ARE NOT TO BE CUT UNTIL OPENING IS NEEDED (PER OSHA)
2. WELD DECK TO FRAME W/ 5/8"ø PUDDLE WELDS @ 6" OC. DECK NOT SHOWN FOR CLARITY.
3. ANCHOR ROOF DRAIN TO FRAME.

TYPICAL ROOF DRAIN OPENING FRAME

S401	NO SCALE
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