

**GENERAL STRUCTURAL NOTES**
 STOUT ROOFING - OFFICE / WAREHOUSE
 FORT PIERCE INDUSTRIAL PARK - 4426 SOUTH ENTERPRISE DRIVE
 ST. GEORGE, UTAH 84790

SPECIAL INSPECTION & NONDESTRUCTIVE TESTING REQUIREMENTS			
1. SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY AND SHALL BE PAID FOR BY THE OWNER.			
2. WHERE RESULTS OF INSPECTIONS OR TESTS DO NOT INDICATE COMPLIANCE WITH CONTRACT DOCUMENTS, RE-TESTS MAY BE REQUIRED PER ENGINEER'S DISCRETION.			
SPECIAL INSPECTION AND TESTING (IBC 1704)			
FABRICATORS (BC1704-2.5)		FABRICATORS NAME: PRE-MANUFACTURED TRUSSES, STEEL FABRICATOR	
<input type="checkbox"/> APPROVED FABRICATOR		<input type="checkbox"/> FABRICATORS NAME: PRE-MANUFACTURED TRUSSES, STEEL FABRICATOR	
<input type="checkbox"/> UNAPPROVED FABRICATOR		<input type="checkbox"/> FABRICATORS NAME:	
REQUIRED IN-PLANT <input checked="" type="checkbox"/> STEEL CONSTRUCTION <input type="checkbox"/> CONCRETE CONSTRUCTION <input type="checkbox"/> OTHER: INSPECTIONS <input type="checkbox"/> COLD-FORMED CONSTRUCTION <input type="checkbox"/> WOOD CONSTRUCTION			
IBC 2021 TABLE 1705.3 CONCRETE CONSTRUCTION ITEM			
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
2. INSPECTION OF REINFORCING STEEL WELDING. SEE TABLE 1705.3 <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCR. OR WHERE STRENGTH DESIGN IS USED <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
4. INSPECTION OF ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS <input checked="" type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
5. VERIFYING USE OF REQUIRED DESIGN MIX <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. <input checked="" type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES <input checked="" type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
10. ERECTION OF PRECAST CONCRETE MEMBERS <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
ASIC 360-16 QUALITY ASSURANCE TABLE N5-4.1, N5-4.2, AND N5-4.3 WELDING INSPECTION TASKS PRIOR TO WELDING			
WELDER QUALIFICATION RECORDS & CONTINUITY RECORDS PER AWS <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE <input checked="" type="checkbox"/> CONTINUOUS <input type="checkbox"/> PERIODIC			
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
MATERIAL IDENTIFICATION (TYPE/GRADE) <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
WELDER IDENTIFICATION SYSTEM <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)			
o JOINT PREPARATION <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o CLEANLINESS (CONDITION OF STEEL SURFACES)			
o TACKING (TACK WELD QUALITY & LOCATION)			
o BACKING TYPE AND FIT (IF APPLICABLE)			
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- & K-JOINTS WITH OUT BACKING (INCLUDING JOINT GEOMETRY)			
o JOINT PREPARATION <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o CLEANLINESS (CONDITION OF STEEL SURFACES)			
o TACKING (TACK WELD QUALITY & LOCATION)			
CONFIGURATION AND FINISH OF ACCESS HOLES <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
FIT-UP OF FILLET WELDS			
o DIMENSIONS (ALIGNMENT, GAPS AT ROOT) <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o CLEANLINESS (CONDITION OF STEEL SURFACES)			
o TACKING (TACK WELD QUALITY & LOCATION)			
CHECKING WELDING EQUIPMENT <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
INSPECTION TASKS DURING WELDING			
CONTROL AND HANDLING OF WELDING CONSUMABLES			
o PACKAGING <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o EXPOSURE CONTROL			
NO LOSING OVER CRACKED TACK WELDS <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
ENVIRONMENTAL CONDITIONS			
o WIND SPEED WITHIN LIMITS <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o PRECIPITATION AND TEMPERATURE			
WPS FOLLOWED			
o SETTINGS ON WELDING EQUIPMENT <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o SELECTING WELDING MATERIALS <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o PREHEAT APPLIED			
o INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)			
WELDING TECHNIQUE			
o EACH PASS WITHIN PROFILE LIMITATIONS <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o EACH PASS MEETS QUALITY REQUIREMENTS			
PLACEMENT & INSTALLATION OF STEEL HEADED STUD ANCHORS <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
INSPECTION TASKS AFTER WELDING			
WELDS CLEARED <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
SIZE, LENGTH AND LOCATION OF WELDS <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
WELDS MEET VISUAL ACCEPTANCE CRITERIA			
o CRACK PROHIBITION <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o WELD/BASE-METAL FUSION <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o CRATER CROSS SECTION <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o WELD PROFILE <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o UNDERCUT <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC			
o POROSITY			
ARC STRIKES			
K-AREA			
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES			
BOLTING REMOVED AND WELD TABS REMOVED (IF REQUIRED)			
REPAIR ACTIVITIES			
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER			
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR			
ASIC 360-16 QUALITY ASSURANCE TABLE N5-6.1, N5-6.2, AND N5-6.3 BOLTING			
ITEM "O" DENOTES OBSERVE AND "P" DENOTES PERFORM PER AISC 360			
INSPECTION TASKS PRIOR TO BOLTING			
MANUFACTURERS CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS			
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS			
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)			
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL			
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS			
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED			
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER COMPONENTS			
INSPECTION TASKS DURING BOLTING			
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED			
JOINT BROUGHT SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION			
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING			
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCS/C SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM MOST RIGID POINT TOWARD THE FREE EDGES			
INSPECTION TASKS AFTER BOLTING			
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS			
STEEL ROOF AND FLOOR DECKS			
"C" DENOTES CONTINUOUS INSPECTION "P" DENOTES PERIODIC INSPECTION PER IBC CHAPTER 17			
VERIFICATION OF SLUMP FLOW & VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE W/ SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF CONSOLIDATING GROUT.			
VERIFICATION OF f'm IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY IBC 402-13/ACI 330-15/ASCE 5-15.			
MINIMUM SPEC. INSPECTION:			
1. ENRICHY COMPLIANCE WITH THE APPROVED SUBMITTALS, ART. 1.5			
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
a. PROPORTIONS OF SITE-PREPARED MORTAR ART. 2.1, 2.6A <input type="checkbox"/> P			
b. CONSTRUCTION OF MORTAR JOINTS ART. 3.3 B <input type="checkbox"/> P			
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
a. GROUT SPACE ART. 3.2 D, 3.2 F			
b. GRADE, TYPE, & SIZE OF REINFORCEMENT & ANCHOR BOLTS SEC. 6.1, ART. 2.4, 3.4			
c. PLACEMENT OF REINFORCEMENT, & CONNECTORS SEC. 6.1, 6.2.1, 6.2.6, 6.2.7, ART. 3.2 E, 3.4, 3.6 A			
d. PROPORTIONS OF SITE-PREPARED GROUT ART. 2.6 B, 2.4 G.1.b			
4. VERIFICATION CONCRETE:			
a. SIZE & LOCATION OF STRUCTURAL ELEMENTS ART. 3.3 F			
b. TYPE, SIZE, & LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION SEC. 1.2.1(e), 6.1.4.3, 6.2.1			
c. WELDING OF REINFORCEMENT SEE 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)			
d. PREPARATION, CONSTRUCTION, & PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F(4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F(32.2°C)) ART. 1.8 C, 1.8 D			
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, &/OR PRISMS ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4			

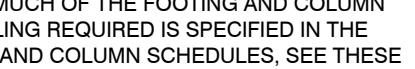
STRUCTURAL STEEL			
1. MINIMUM YIELD STRENGTH 46 KSI (ASTM 500, GRADE B) FOR TUBES, A992 FOR ALL "W" SHAPES, 36 KSI ALL ELSE U.N.O.			
2. FABRICATION AND CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS:			
A. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS WITH COMMENTARY"			
B. USE OF STANDARD PRACTICE EQUIVALENT TO THE FOLLOWING: SECTION 4.2.1, SECTION 4.2.2, SECTION 7.5.4, SECTION 7.1.5.			
C. AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS*			
D. AMERICAN WELDING SOCIETY (AWS), STRUCTURAL WELDING CODE (SPECIFIC ITEMS DO NOT APPLY WHEN THEY CONFLICT WITH THE AISC REQUIREMENTS).			
3. WELDING			
A. CERTIFICATION OF WELDERS: ALL SHOP AND FIELD WELDING SHALL BE EXECUTED BY AWS CERTIFIED WELDERS. CERTIFICATION SHALL BE CONSIDERED CURRENT IF DATED WITHIN THE PAST 12 MONTHS. WELDERS WILL BE CONSIDERED CERTIFIED IF THEY HAVE BEEN CERTIFIED BY AWS AND THEIR WORK RECORDS ARE CURRENT WITHIN EVERY SIX MONTH PERIOD THEREAFTER AS REQUIRED BY AWS. CERTIFICATION AND RECORDS MUST COMPLY WITH AWS STANDARDS. CERTIFICATIONS AND APPROPRIATE RECORDS MUST BE PROVIDED TO THE CONTRACTOR PRIOR TO COMMENCEMENT OF WELDING.			
B. ELECTRODE E-70-1 OR AN EQUIVALENT OTHERWISE.			
C. MINIMUM WELDS: ALL INTERSECTION STEEL SHAPES WHICH ARE NOT BOLTED SHALL BE CONNECTED BY FILLET WELD ALL AROUND, UNLESS NOTED OTHERWISE. FILLET WELD SIZES THAT ARE NOT SHOWN SHALL BE 1/16" LESS THAN THE THINNEST OF THE CONNECTED PARTS FOR THICKNESS 1/4" SHALL BE THE SAME SIZE AS THE THINNEST OF THE CONNECTED PART.			
D. STRENGTHENED DEFORMED BAR ANCHOR WELDING SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS. WELDING SHALL BE TESTED TO COMPLY WITH AWS D1.1 SECTION 7.6 THROUGH 7.8 AND APPENDIX "K".			
4. BOLTED CONNECTIONS:			
A. USE ASTM A325N BOLTS FOR ALL STEEL TO STEEL CONNECTION, UNLESS NOTED OTHERWISE. TIGHTEN BOLTS BY THE TURN OF THE NUT, CALIBRATED WRENCH, OR DIRECT TENSION INDICATOR METHOD. ALTERNATE FASTENER DESIGNS AS DEFINED BY AISC SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION. PROVIDE HARDENED WASHERS BEneath ELEMENT BOLTS AS REQUIRED BY THE MANUFACTURER.			
B. WHERE A STEEL TO STEEL BEAM CONNECTION IS NOT DETAILED ON DRAWINGS PROVIDE STANDARD FRAMED BEAM CONNECTIONS MEETING REQUIREMENTS OF "MANUAL OF STEEL CONSTRUCTION", AISC 360-16, WITH 3/4" MINIMUM DIAMETER BOLTS (OR WELDED EQUIVALENT) UNLESS OTHERWISE NOTED. FOR BEAMS WITHOUT DESIGNATED LOADS ON DRAWINGS, SELECT CONNECTIONS TO SUPPORT 60% OF TOTAL UNIFORM LOAD CAPACITY IN BENDING FOR EACH GIVEN BEAM AND SPAN, PLUS THE REACTION DUE TO ANY CONCENTRATED LOADS. MAXIMUM OF TWO (2) BOLTS PER CONNECTION.			
C. STEEL DECK:			
A. STEEL DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE, SDI. SUBMIT IBC REPORT WITH LOAD AND LATERAL SHEAR CAPACITIES WITH DRAWINGS.			
B. DECK BY OTHER MANUFACTURERS MAY BE SUBJECTED TO ONE OF THAT SHOWN PROVIDED SECTION PROPERTIES EQUAL OR EXCEED THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.			
C. INSTALL IN ACCORDANCE WITH DECK MANUFACTURER'S SUGGESTED SPECIFICATIONS.			
D. DECK SUPPLIER SHALL PROVIDE ALL ADDITIONAL FRAMING REQUIRED TO SUPPORT DECK AT OPENINGS THROUGH DECK NOT SHOWN ON DRAWINGS.			
E. ALL DECK SHALL BE 3 SPAN CONTINUOUS MINIMUM. IN AREAS WHERE 3 SPAN CONDITIONS ARE NOT POSSIBLE, THE DECK SHALL MEET THE ACTIVE LOADING CRITERIA FOR THE SPAN CONDITION. THE CONTRACTOR SHALL PROVIDE HEAVIER GAUGE DECK AS REQUIRED FOR THE ONE OR TWO SPAN CONDITIONS TO MEET THE ABOVE CRITERIA.			
6. STEEL JOISTS:			
A. OPEN WEB STEEL JOISTS SHALL BE ENGINEERED AND FABRICATED IN ACCORDANCE WITH THE I.B.C. SECTION 2206 AND THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE (SJI). THE MANUFACTURER SHALL DESIGN JOISTS AND GIRDERS FOR UNIFORM LOADS SHOWN PLUS 10% CONCENTRATED LOADS AS WELL AS ALL THE FLOOR PLANS.			
B. JOISTS TO OVERLAP 1/2" FOR FIELD INSTALLED EXTRA-WEB MEMBERS, POLE BRACING WHICH DOES NOT OCCUR AT A PANEL POINT.			
C. JOIST MANUFACTURER TO DESIGN FURNISH BRIDGING OR BRACES FOR JOISTS AND GIRDERS AS REQUIRED.			
D. JOIST MANUFACTURER TO DESIGN JOIST TOP CHORD WITH UNBRACED LENGTH EQUAL TO SKYLIGHT OPENING.			
E. WHERE STEEL JOIST OR GIRDERS SLOPE EXCEEDS 1/4' PER FOOT, PROVIDE SLOPED BEARING SEAT.			
F. JOIST MANUFACTURER TO DESIGN FOR THE MECH. UNITS SHOWN WITH WEIGHTS GREATER THAN 500 LBS.			
G. DEFERRED SUBMITTAL: DEFERRED SUBMITTAL GENERAL NOTES THIS SHEET FOR INFORMATION ON APPROVAL OF JOIST & DECK AS A DEFERRED SUBMITTAL.			
H. A CERTIFICATE OF COMPLIANCE MUST BE SUBMITTED TO THE BUILDING OFFICIAL UPON COMPLETION OF FABRICATION IN ACCORDANCE WITH IBC 2207.5.			
MASONRY			
1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT BASED ON MINIMUM NET AREA SHALL BE 1900 (LIGHTWEIGHT GRADE N).			
2. MORTAR SHALL BE TYPE (S) ACCORDING TO IBC SECTION 2103.2 AND SHALL COMPLY WITH ASTM C 270. AGGREGATES USED IN MORTAR SHALL NOT EXCEED 3/8" IN SIZE.			
3. GROUT FOR CONCRETE MASONRY UNIT SHALL BE PROPORTIONED ACCORDING TO ASTM C476 AND SHALL DEVELOP COMPRESSIVE STRENGTH OF 2000 PSI WITHIN 28 DAYS. AGGREGATES USED IN GROUT SHALL BE SAND AND GRAVEL AND SHALL COMPLY WITH ASTM C 404. ADDITIVES OR ADMIXTURES SHALL NOT BE USED IN GROUT MIX.			
4. REINFORCEMENT USED IN MASONRY CONSTRUCTION SHALL BE DEFORMED BARS, ASTM A-615 GRADE 60 (F=60 KSI).			
5. ALL REINFORCEMENT AND SPACERS SHALL BE PLACED IN CONCRETE IN ACCORDANCE WITH THE MANUFACTURER'S CEMENTATION PROCEDURE. SPACERS SHALL BE PLACED IN CONCRETE IN ACCORDANCE WITH THE MANUFACTURER'S CEMENTATION PROCEDURE.			
6. SPLICES ARE NOT PERMITTED IN REINFORCING BARS EXCEPT AS DETAILED OR AUTHORIZED BY STRUCTURAL ENGINEER. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS, A MINIMUM OF 48 BAR DIAMETERS.			
7. MINIMUM REINFORCING:			
A. ALL COLD WELD SWS #5 VERTICAL AT 30 O.C. (#4 HORIZONTAL AT 24" O.C. SOLID GROUT RE: PLAN 8' CMU WALLS #5 VERTICAL AT 30 O.C. (#4 HORIZONTAL AT 24" O.C. SOLID GROUT RE: PLAN)			
B. JOINT REINFORCEMENT SHALL HAVE NOT LESS THAN 5/8" MORTAR COVERAGE FROM THE EXPOSED FACE.			
C. OTHER REINFORCEMENT SHALL HAVE A MINIMUM COVERAGE OF ONE BAR DIAMETER OVER ALL THE BARS, BUT NOT LESS THAN 1-1/2". WHEN MASONRY IS EXPOSED TO WEATHER OVER SOLID, MINIMUM COVERAGE SHALL BE 2".			

FOOTING & FOUNDATION PLAN

OUT ROOFING - OFFICE / WAREHOUSE
DUSTRIAL PARK - 4426 SOUTH ENTERPRISE
ST, GEORGE, UTAH 84790

FORT PIERCE

S2.
OF SHEET



FOOTING & FOUNDATION PLAN

SCALE: 3/32" = 1'

MASONRY WALL SCHEDULE			
MARK	THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
MW-1	8"	#5 @ 32"	#4 @ 24"
MW-2	8"	#5 @ 24"	#4 @ 24"
MW-3	8"	#5 @ 16"	#4 @ 16"
MW-4	8"	#5 @ 32"	#4 @ 24"

FOOTING SCHEDULE

MARK	SIZE			REINFORCEMENT		TOP OF FOOTING ELEVATION	DETAILS
	WIDTH	THICK	LENGTH	LONGITUDINAL	TRANSVERSE		
F-1	2'-0"	1'-0"	CONT.	(3)- #4	-	MONO	H/S8.1
F-2	2'-0"	1'-0"	CONT.	(3)- #4	#5 @ 14" O.C.	99'-0"	J/S8.1
F-3	2'-6"	1'-0"	CONT.	(4)- #4	#5 @ 14" O.C.	MONO	H/S8.1
F-4	2'-6"	1'-0"	CONT.	(4)- #4	#5 @ 14" O.C.	99'-0"	J/S8.1
F-5	2'-6"	1'-0"	CONT.	(4)- #4	#5 @ 14" O.C.	99'-0"	L/S8.1
F-6	3'-0"	1'-0"	CONT.	(4)- #4	#5 @ 14" O.C.	99'-0"	L/S8.1
F-7	4'-0"	1'-0"	CONT.	(4)- #5	#5 @ 14" O.C.	99'-0"	J/S8.1
F-8	2'-0"	1'-0"	2'-0"	(3)- #4	(3)- #4	MONO	M/S8.1
F-9	2'-0"	1'-0"	2'-0"	(3)- #4	(3)- #4	99'-3"	C/S8.1
F-10	2'-6"	1'-0"	2'-6"	(4)- #4	(4)- #4	99'-4"	C/S8.1
F-11	3'-0"	1'-0"	3'-0"	(4)- #4	(4)- #4	99'-0"	D/S8.1
F-12	3'-0"	1'-0"	3'-0"	(4)- #4	(4)- #4	99'-4"	C/S8.1
F-13	3'-0"	1'-0"	3'-0"	(4)- #4	(4)- #4	98'-6"	K/S8.1
F-14	4'-0"	1'-0"	4'-0"	(4)- #5	(4)- #5	99'-0"	D/S8.1
F-15	5'-0"	1'-2"	5'-0"	(6)- #5	(6)- #5	99'-0"	D/S8.1
F-16	5'-0"	1'-2"	5'-0"	(6)- #5	(6)- #5	99'-4"	C/S8.1
F-17	5'-6"	1'-3"	5'-6"	(6)- #6	(6)- #6	99'-3"	C/S8.1
F-18	5'-6"	1'-3"	5'-6"	(6)- #6	(6)- #6	99'-0"	F/S8.1

MASONRY WALL SCHEDULE

- ## FOUNDATION NOTES

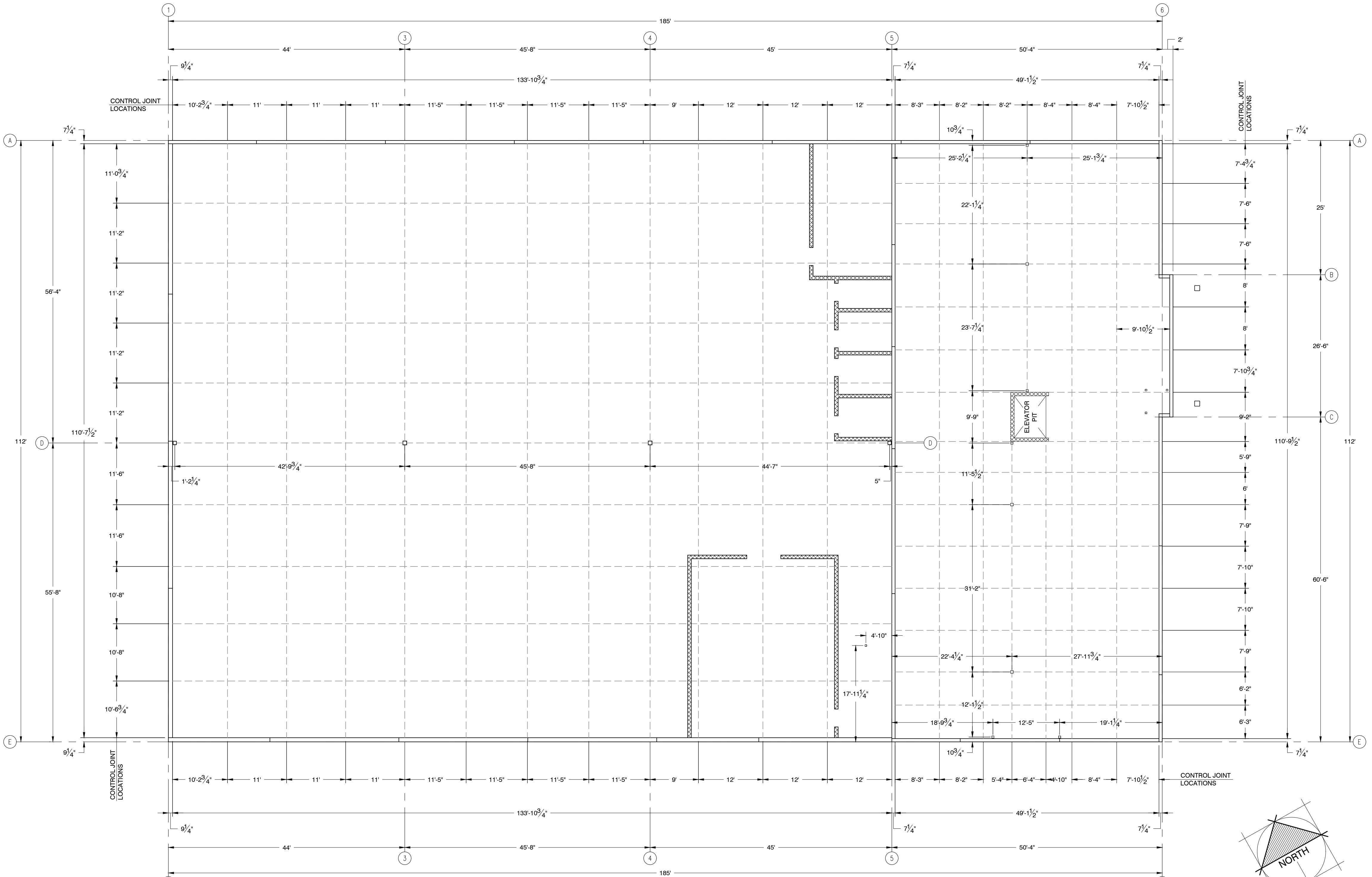
 1. TOP OF SLAB ELEVATION = 100'-0" UNLESS NOTES THUS: EL.= XXX'-XX" SLOPE UNIFORMLY TO FLOOR DRAINS.
 2. SLAB ON GRADE SHALL BE 4" OR 5" CONCRETE SLAB AS PER PLAN NOTES OVER 4" FREE DRAINING MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER. SEE PLAN FOR SPECIFIC AREAS.
 3. PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN SLAB PER GENERAL NOTES. REFER TO DETAIL A/S8.1.
 4. FOOTING TYPES NOTES THUS: "F-X". REFER TO SCHEDULE FOR TOP OF FOOTING ELEVATION, FOOTING DETAIL, SIZE AND REINFORCEMENT.
 5. CENTER FOOTINGS ON COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
 6. STEEL COLUMNS AND BASE PLATES SIZES DENOTED THUS: X ON PLAN. SEE COLUMN SCHEDULE FOR COLUMN SIZE & DETAILS.
 7. MASONRY PIER TYPES ARE NOTED THUS: MP-X ON PLAN. REFER TO DETAIL P/S8.1 FOR SIZE AND REINFORCEMENT.
 8. REFER TO DETAIL Q/S8.1 FOR CONTROL/EXPANSION JOINTS IN MASONRY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
 9. REFER TO DETAIL R/S8.1 FOR TYPICAL MASONRY WALL REINFORCEMENT DETAIL.
 10. FOUNDATION DESIGN INFORMATION WAS PROVIDED BY AGEC, APPLIED GEOTECHNICAL ENGINEERING PROJECT NUMBER 2210230 DATED MAY 10, 2021. ALL SITE PREPARATION, EXCAVATION, OVER EXCAVATION, FILL, COMPACTION AND PLACEMENT WORK PERFORMED SHALL COMPLY WITH RECOMMENDATIONS OUTLINED IN THE ABOVE REFERENCED REPORT. COMPACTION TESTS ARE REQUIRED FOR FOUNDATION PREPARATION. FOUNDATIONS MAY BE SUPPORTED ON CONVENTIONAL SPREAD FOOTINGS
 11. REFER TO ARCHITECTURAL/SITE DRAWINGS FOR INFORMATION AND LOCATION OF SITE WALLS, STEPS, PLANTERS, RAMPS, ETC.
 12. REFER TO GENERAL STRUCTURAL NOTES ON SHEET S1.1 FOR ADDITIONAL INFORMATION

STEEL COLUMN SCHEDULE

MARK	SIZE	BOTTOM DETAIL	TOP DETAIL
1	HSS4x4x3/16	C/S8.1	R/S8.3
2	HSS4x4x3/16	D/S8.1	R/S8.3
3	HSS5x5x3/16	D/S8.1	C/S8.2
4	HSS5x5x3/16	G/S8.1	C/S8.2
5	HSS6x6x3/16	C/S8.1	D/S8.2
6	HSS6x6x1/4	C/S8.1	E/S8.2
7	HSS8x8x1/4	D/S8.1	G/S8.2
8	HSS8x8x1/4	F/S8.1	G/S8.2
9	HSS9x9x5/16	C/S8.1	H/S8.2
10	HSS12x12x3/8	K/S8.1	B/S8.2

LEGEND

- | LEGEND | |
|---|--|
|  | DENOTES A CONCRETE WALL PANEL, SEE S4.1 & S4.2 FOR WALL PANEL SIZE & REINFORCING. |
|  | DENOTES A CMU WALL SEE PLAN AND CMU WALL SCHEDULE FOR REINFORCING REQUIREMENT |
| F-X | DENOTES CONCRETE FOOTING, SEE FOOTING SCHEDULE FOR FOOTING SIZE, REINFORCEMENT, TOP OF FOOTING, & DETAIL |
|  | DENOTES A STEEL COLUMN, SEE STEEL COLUMN SCHEDULE FOR COLUMN SIZE & DETAILING |
| T.O.F. | TOP OF FOOTING ELEVATION |
|  | DENOTES A DETAIL CUT. THIS EXAMPLE DETAIL CUT DENOTES DETAIL "Q" ON SHEET S8.1 |



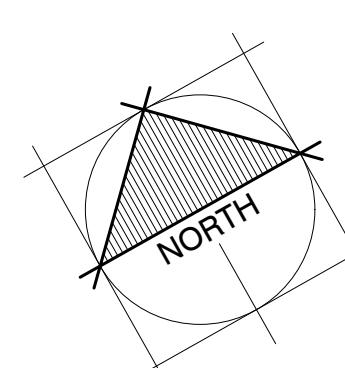
SLAB DIMENSION PLAN

SCALE: 3/32" =

SLAB DIMENSION PLAN

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6/18/2024
DATE:
23070
JOB NUMBER:

3/32" = 1'-0"
SCALE:

C.L.
DRAWN:

J.H.C.
CHECKED:



#323778
JOHN H.
CRAVEN
PROFESSIONAL STRUCTURAL ENGINEER
STATE OF UTAH

The logo consists of a large, bold, three-dimensional letter 'M' at the top, with the letters 'R' and 'W' positioned below it. The 'M' is rendered with thick black outlines and internal shading. Below the 'M', the letters 'R' and 'W' are also in a bold, three-dimensional font. The entire logo is set against a white background with a decorative scalloped border at the very top.

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DATE:

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3/32" = 1'-0"
SCALE:

C.L.
DRAWN:

J.H.C.
CHECKED:



A circular seal for a professional engineer. The outer ring contains the text "PROFESSIONAL STRUCTURAL ENGINEER" at the top and "STATE OF UTAH" at the bottom. The center of the seal contains the name "JOHN H. CRAVEN" above the number "#323778". The entire seal is stamped with blue ink.

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(43)

LAB DIMENSION PLAN

TT ROOFING - OFFICE / WAREHOUSE
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S2.3
OF SHEETS

6/18/2024

DATE:

23070

JOB NUMBER:

3/32" = 1'-0"

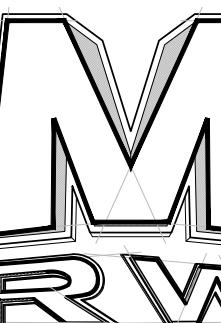
SCALE:

M.C.C.

DRAWN:

J.H.C.

CHECKED:



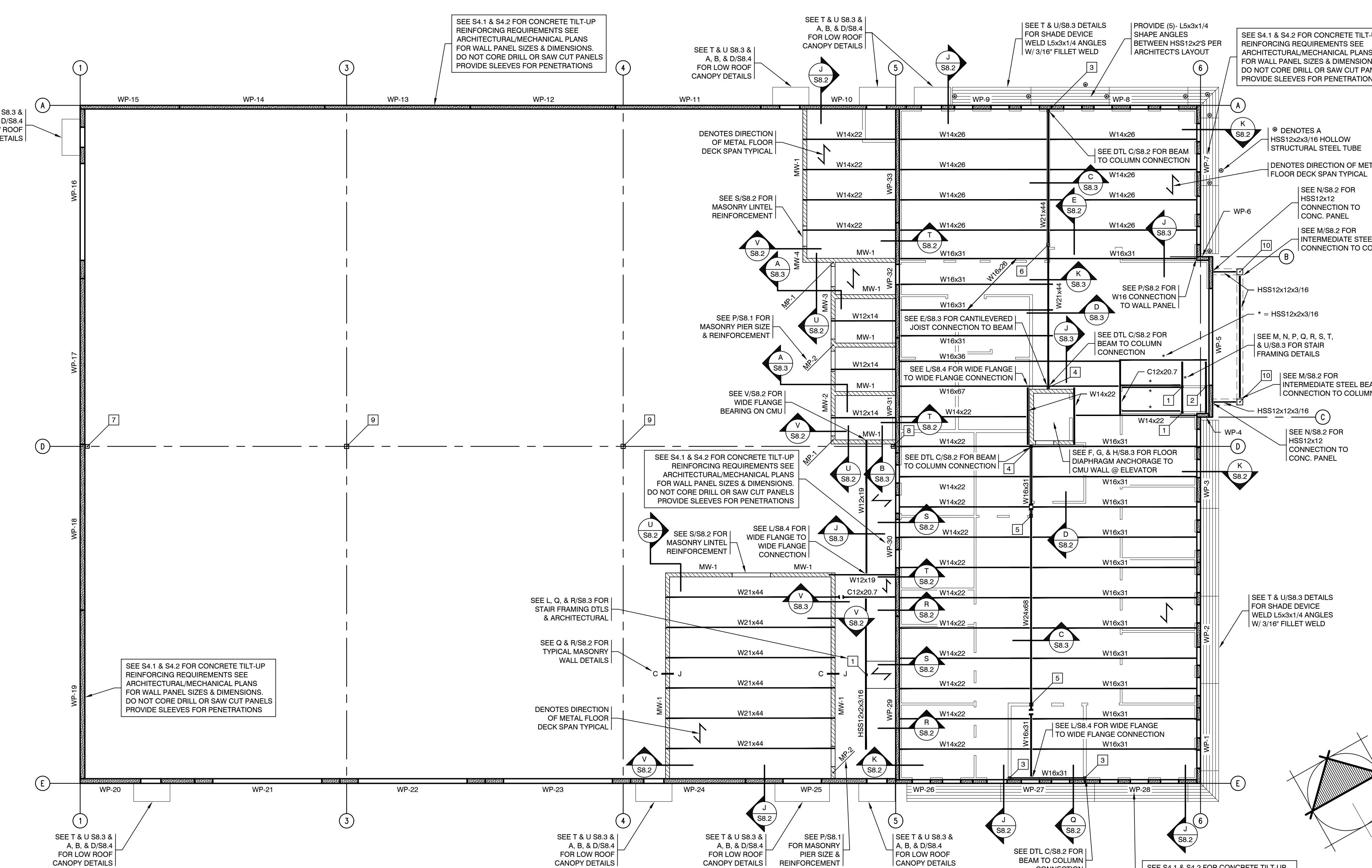
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FLOOR FRAMING PLAN & CONC. WALL LAYOUT

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S3.1
OF SHEETS



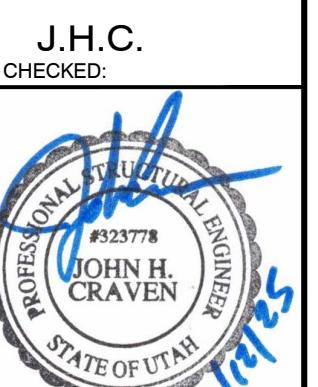
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23070
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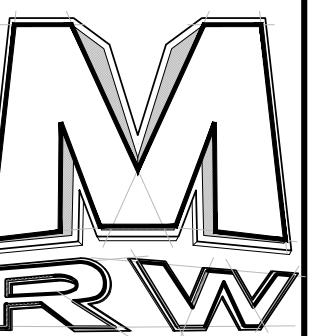
3/32" = 1'-0"
SCALE:

M.C.
DRAWN:

J.H.C.
CHECKED:



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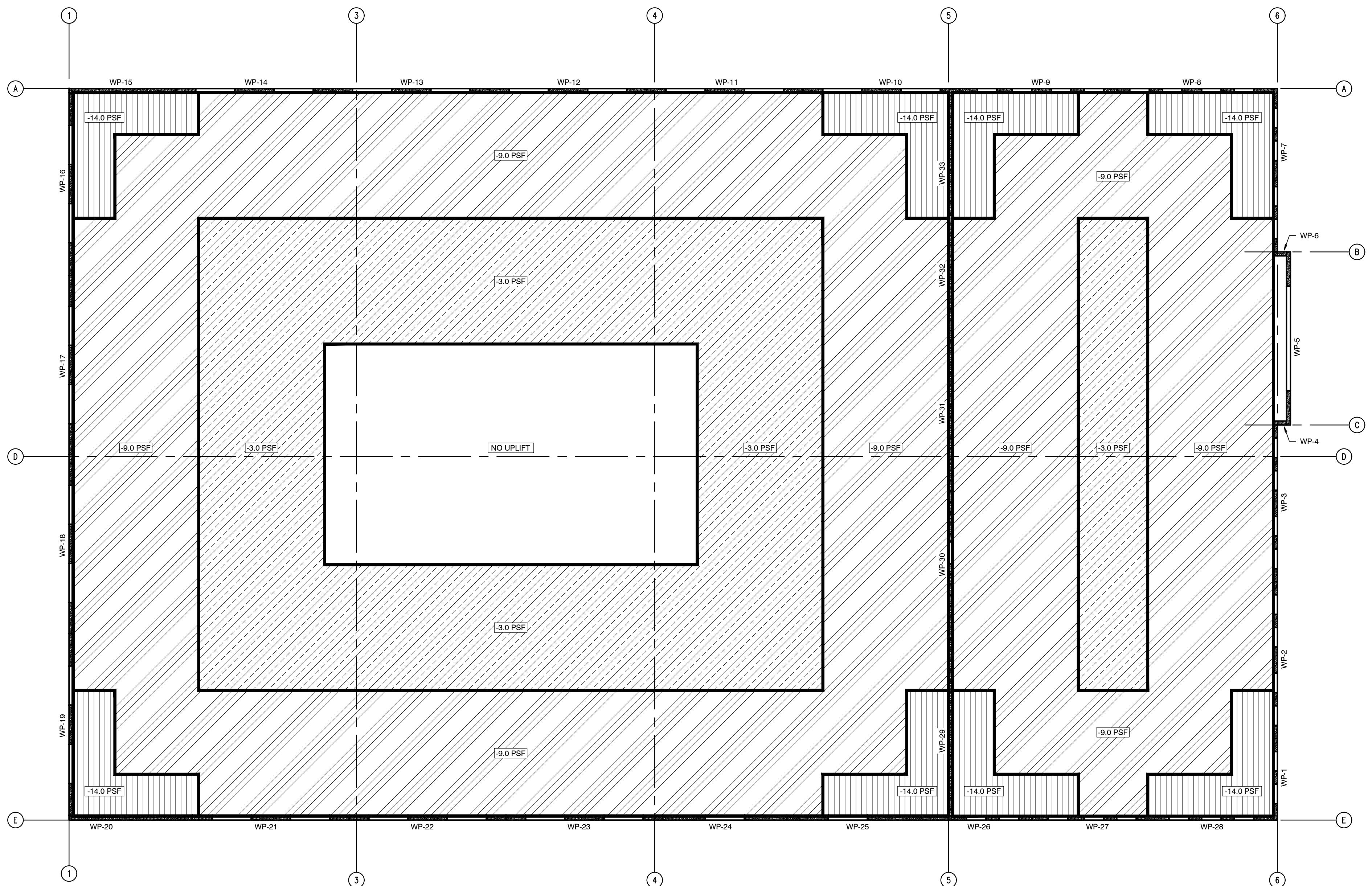


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WIND UPLIFT DIAGRAM
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S3.3
OF SHEETS



WIND UPLIFT DIAGRAM

SCALE: 3/32" = 1'

WIND UPLIFT NOTES
1. PRESSURES SHOWN ARE A RESULT OF: 0.6D + 0.6W
2. PRE-MANUFACTURED ROOF TRUSS MANUFACTURER
TO DESIGN TRUSSES FOR UPLIFT SHOWN

LEGEND

- [Symbol: Hatched rectangle] DENOTES A CONCRETE WALL PANEL. SEE S4.1 & S4.2 FOR WALL PANEL SIZE & REINFORCING.
- [Symbol: Hatched rectangle with cross-hatch] DENOTES A CMU WALL. SEE PLAN AND CMU WALL SCHEDULE FOR REINFORCING REQUIREMENT.
- [Symbol: Hatched rectangle with diagonal line] DENOTES CONCRETE FOOTING. SEE FOOTING SCHEDULE FOR FOOTING SIZE, REINFORCEMENT, TOP OF FOOTING, & DETAIL.
- [Symbol: Steel column icon] DENOTES A STEEL COLUMN. SEE STEEL COLUMN SCHEDULE FOR COLUMN SIZE & DETAILING.
- [Symbol: T.O.F. icon] T.O.F. TOP OF FOOTING ELEVATION
- [Symbol: Detail cut icon] DENOTES A DETAIL CUT. THIS EXAMPLE DETAIL CUT DENOTES DETAIL 'Q' ON SHEET S8.1

S3.3
OF SHEETS



M
RW

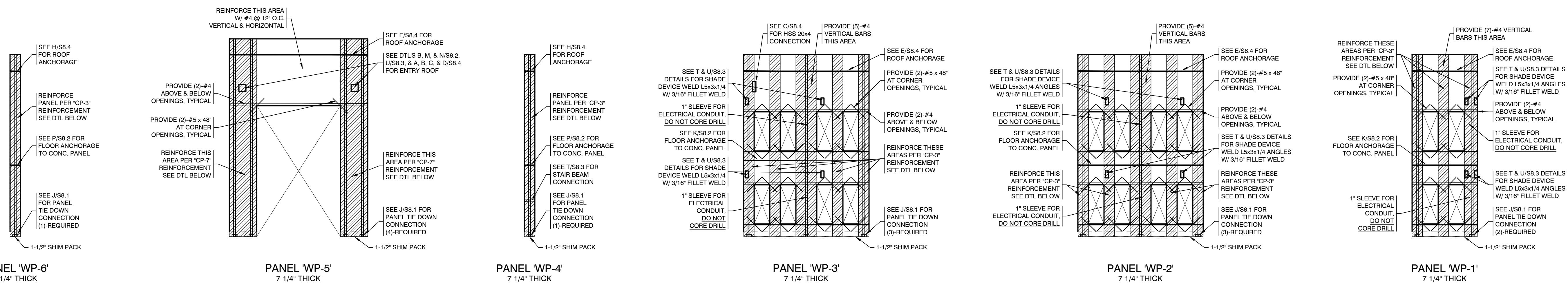
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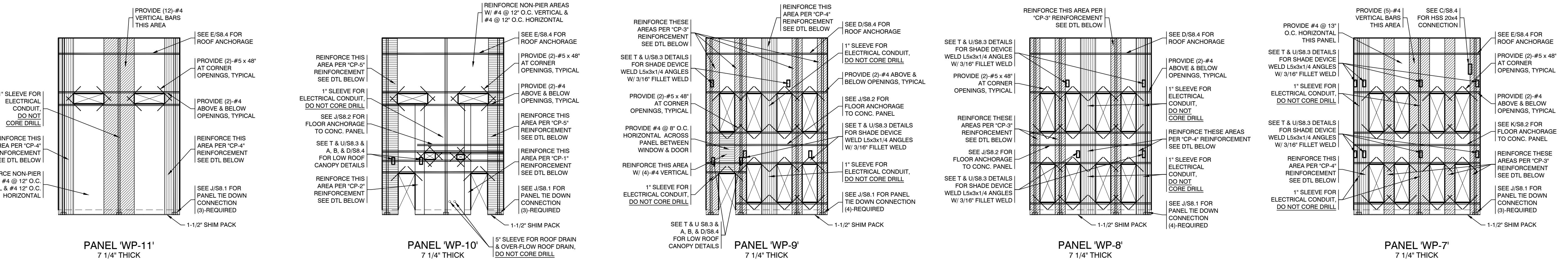
STRUCTURAL WALL PANEL ELEVATIONS

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S4.1
OF SHEETS



SEE ARCHITECTURAL PLANS
FOR PANEL SLEVED
PENETRATIONS, OPENINGS,
& OVERALL DIMENSIONS



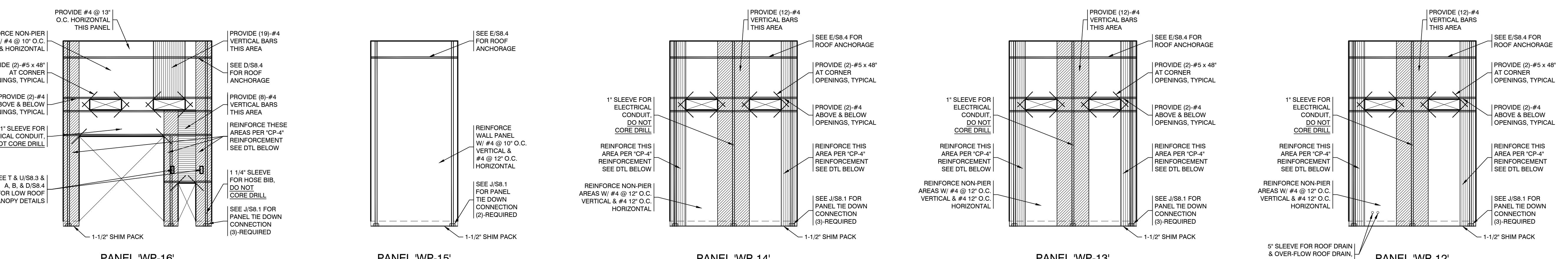
PANEL 'WP-11'
7 1/4" THICK

PANEL 'WP-10'
7 1/4" THICK

PANEL 'WP-9'
7 1/4" THICK

PANEL 'WP-8'
7 1/4" THICK

PANEL 'WP-7'
7 1/4" THICK



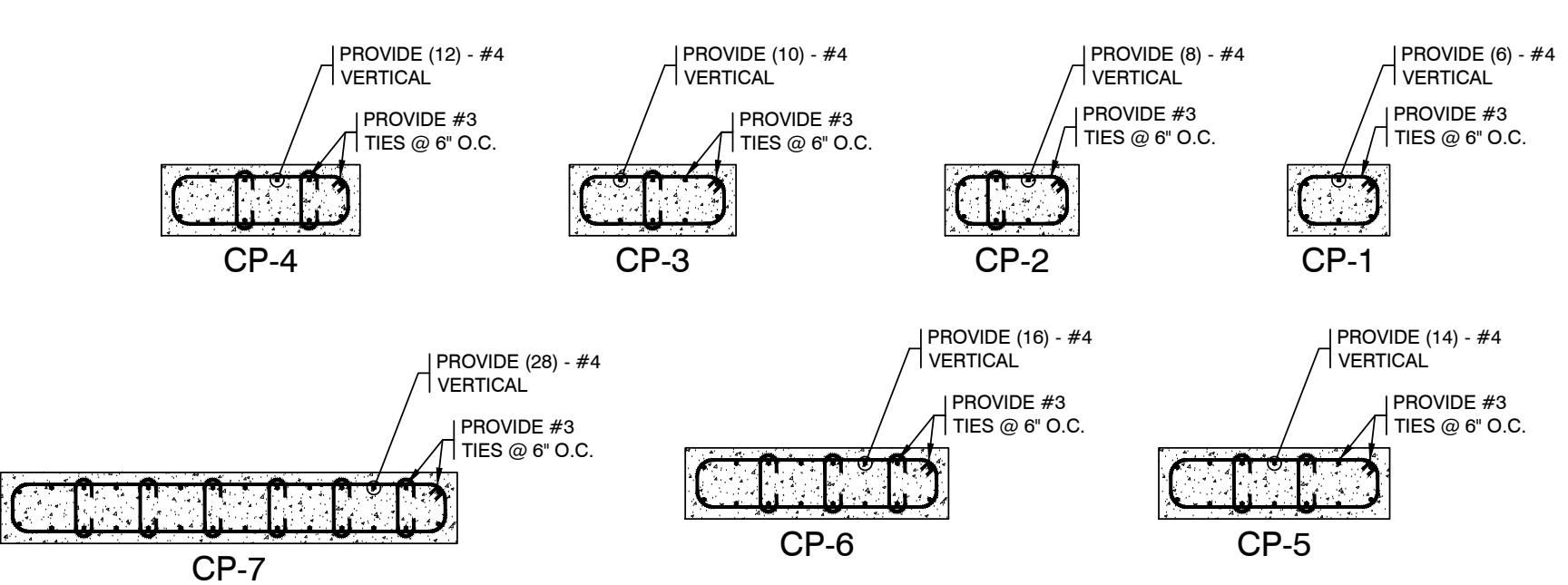
PANEL 'WP-16'
9 1/4" THICK

PANEL 'WP-15'
7 1/4" THICK

PANEL 'WP-14'
7 1/4" THICK

PANEL 'WP-13'
7 1/4" THICK

PANEL 'WP-12'
7 1/4" THICK



THIS VIEW IS FROM INSIDE
THE BUILDING, EXTERIOR
FACE SHALL BE CAST DOWN

NOTE:
TYPICAL REINFORCEMENT FOR
7 1/4" THICK PANEL SHALL BE:
#4 @ 12' O.C. VERTICAL
#4 @ 12' O.C. HORIZONTAL
CENTERED TYPICAL

TYPICAL TILT-UP PANEL NOTES:
1. ALL PANELS SHALL RECEIVE MINIMUM REINFORCEMENT U.N.O.
2. CONCRETE TILT-UP PANEL REINFORCEMENT TO COVER IN-PLACETM LOADING.
CONTRACTOR TO PROVIDE APPROPRIATE AMOUNT OF STEEL FOR
CONCRETE TILT-UP PANELS.
3. PROVIDE PANEL BASE ANCHORAGE AS SHOWN PER DETAIL H/S8.1.
4. PROVIDE 1/2" PANEL JOINT BETWEEN PANELS PER DETAILS F.K.&L/S8.1
5. EXTERIOR FACE CAST DOWN.
SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
7. SEE ARCHITECTURAL PLANS FOR PANEL DIMENSIONS AND HOLE LOCATIONS.

NOTE:
TYPICAL REINFORCEMENT FOR
9 1/4" THICK PANEL SHALL BE:
#4 @ 12' O.C. VERTICAL
#4 @ 12' O.C. HORIZONTAL
EACH FACE W/ 1" CONCRETE COVER

6/18/2024

DATE:

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JOB NUMBER:

N.T.S.

SCALE:

M.C.

DRAWN:

J.H.C.

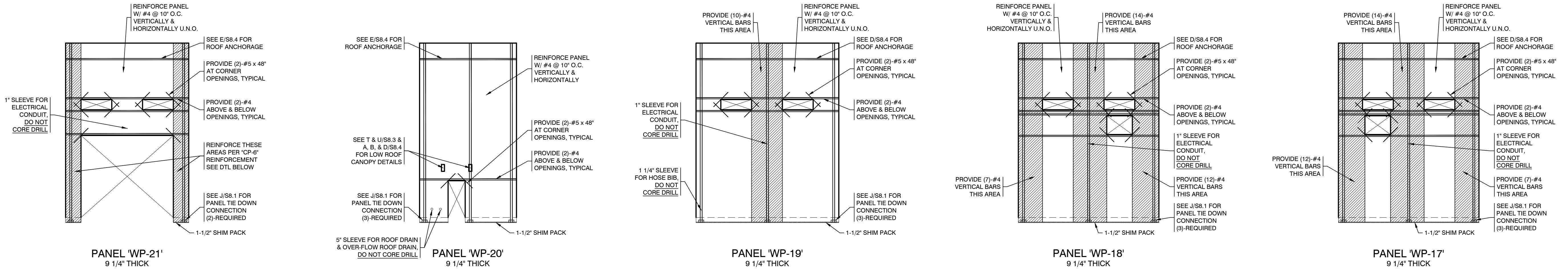
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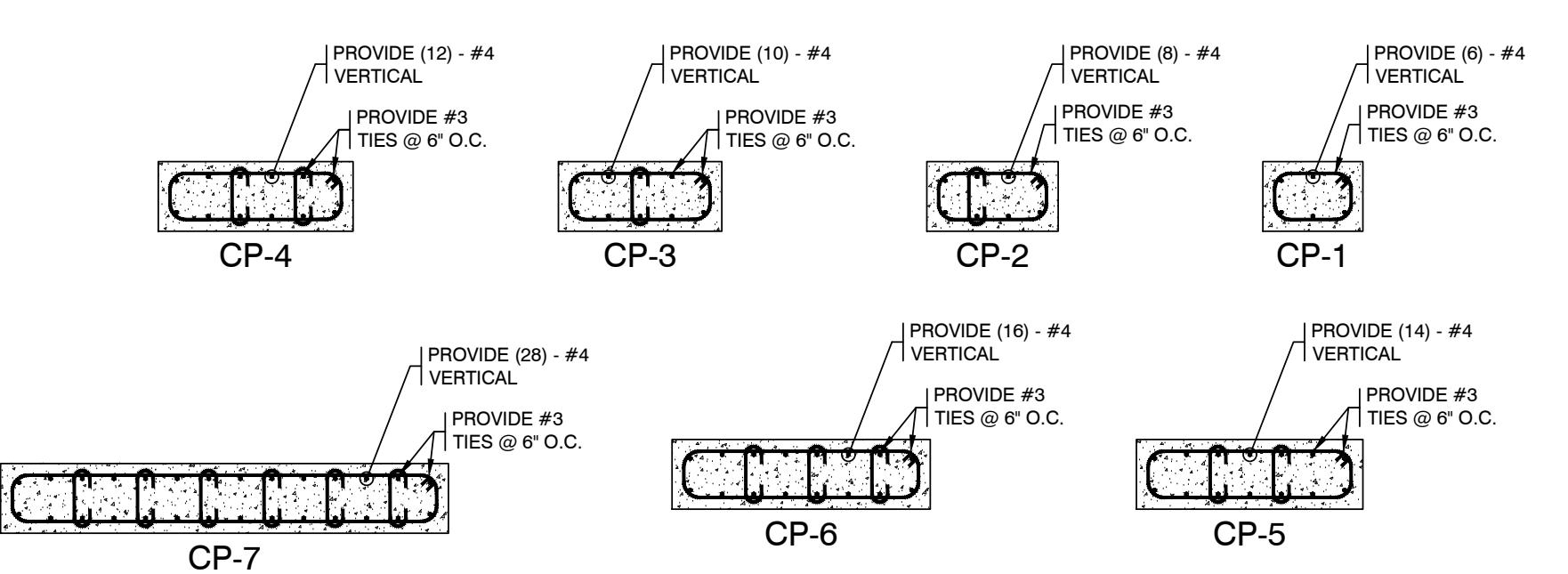
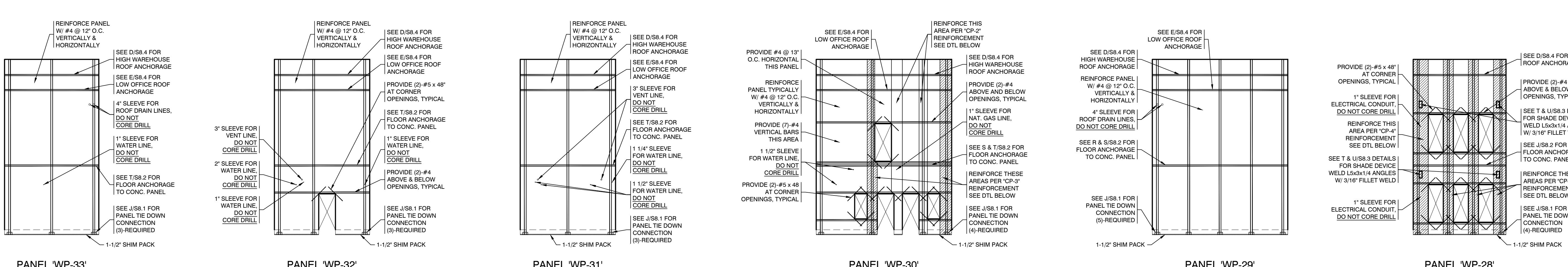
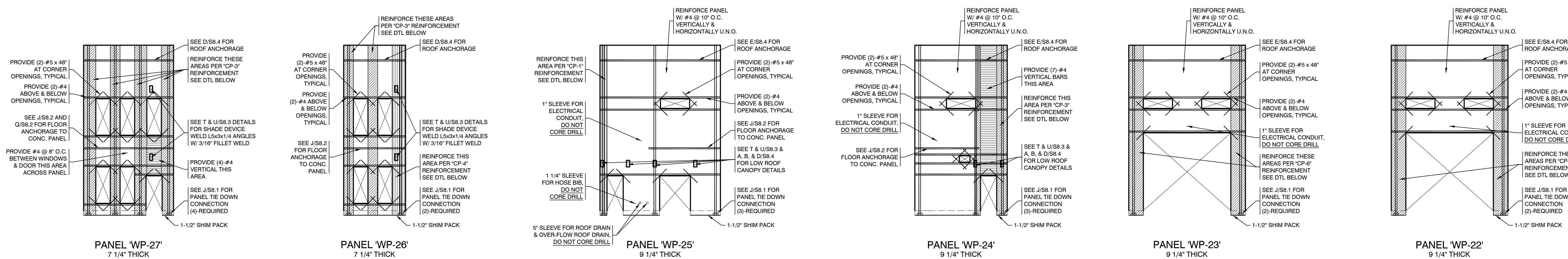
M
RW

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SEE ARCHITECTURAL PLANS
FOR PANEL SLEVED
PENETRATIONS, OPENINGS,
& OVERALL DIMENSIONS



THIS VIEW IS FROM INSIDE
THE BUILDING, EXTERIOR
FACE SHALL BE CAST DOWN

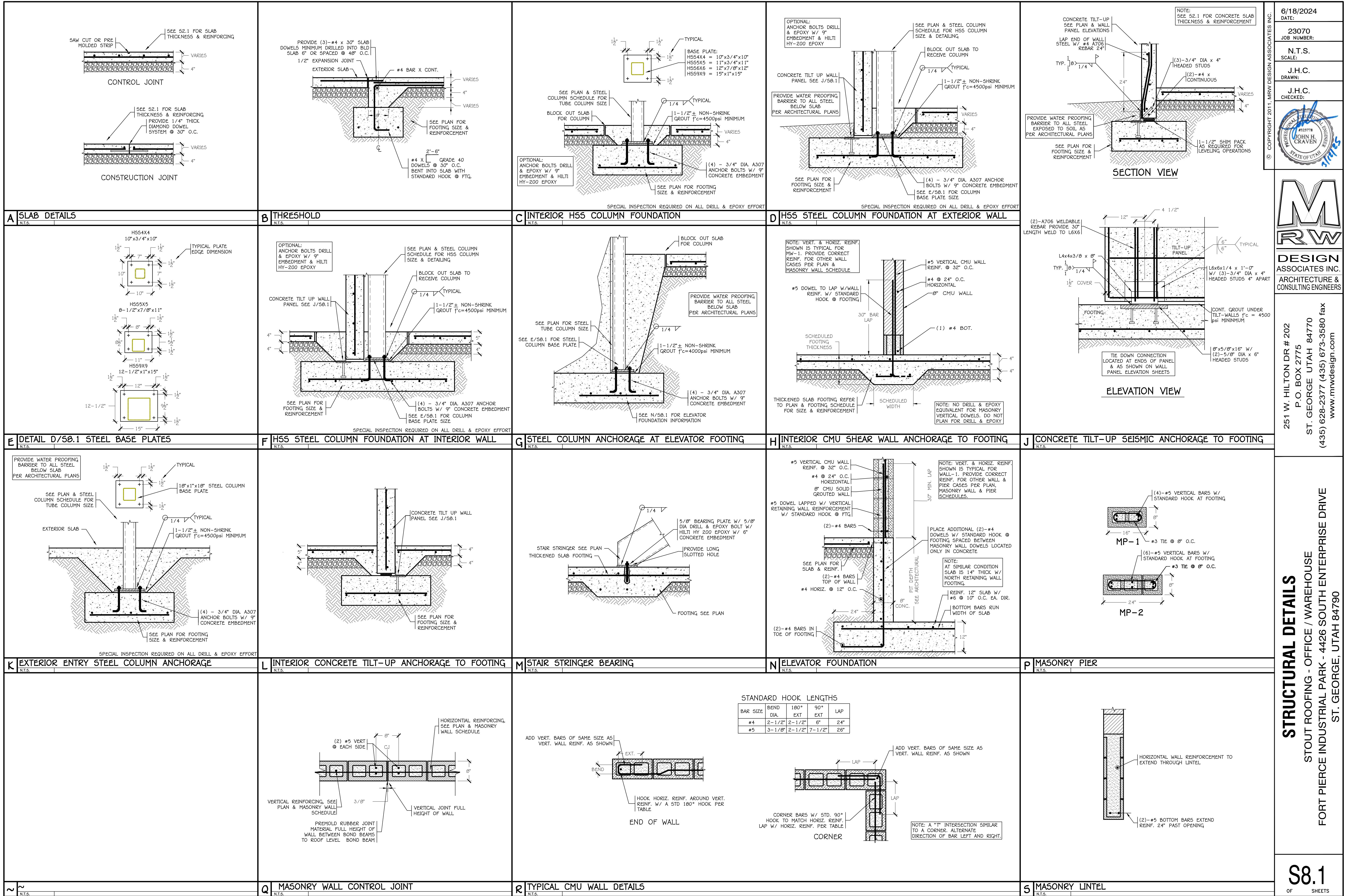
TYPICAL TILT-UP PANEL NOTES:
1. ALL PANELS SHALL RECEIVE MINIMUM REINFORCEMENT U.N.O.
2. CONCRETE TILT-UP PANEL REINFORCEMENT TO COVER IN-PLACETM LOADING.
CONTRACTOR TO PROVIDE APPROPRIATE AMOUNT OF STEEL FOR
CONCRETE TILT-UP PANELS.
3. PROVIDE PANEL BASE ANCHORAGE AS SHOWN PER DETAIL H/S8.1.
4. PROVIDE 1/2" PANEL JOINT BETWEEN PANELS PER DETAILS F.K. & L/S8.1
5. EXTERIOR FACE CAST DOWN.
6. SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
7. SEE ARCHITECTURAL PLANS FOR PANEL DIMENSIONS AND HOLE LOCATIONS.

NOTE:
TYPICAL REINFORCEMENT FOR
9-1/4" THICK PANEL SHALL BE:
#4 @ 12' O.C. VERTICAL
#4 @ 12' O.C. HORIZONTAL
CENTRED TYPICAL

NOTE:
TYPICAL REINFORCEMENT FOR
9-1/4" THICK PANEL SHALL BE:
#4 @ 12' O.C. VERTICAL
#4 @ 12' O.C. HORIZONTAL
CENTRED TYPICAL
EACH FACE W/ 1" CONCRETE COVER

STRUCTURAL WALL PANEL ELEVATIONS

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STRUCTURAL DETAILS

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A DIAPHRAGM BOUNDARY ANGLE SPLICE N.T.S.	B HSS BEAM TO HSS COLUMN CONNECTION N.T.S.	C WIDE FLANGE BEAM TO HSS COLUMN CONNECTION N.T.S.	D STEEL COLUMN TO STEEL BEAM CONNECTION N.T.S.	E STAGGERED STEEL BEAM CONNECTION TO HSS6x6 N.T.S.
F FLOOR OR ROOF OPENING FRAMING N.T.S.	G O.W.S. GIRDER BEARING AT STEEL COLUMN N.T.S.	H O.W.S. GIRDER BEARING AT STEEL COLUMN N.T.S.	J FLOOR DECK ANCHORAGE TO CONCRETE TILT-UP N.T.S.	K FLOOR JOIST & DIAPHRAGM ANCHORAGE TO TILT-UP N.T.S.
L FIELD INSTALLED EXTRA WEB FOR CONCENTRATED LOAD N.T.S.	M HSS BEAM TO HSS COLUMN CONNECTION N.T.S.	N HSS12x12 BEAM ANCHORAGE TO CONCRETE TILT-UP N.T.S.	P WIDE FLANGE CONNECTION TO WALL PANEL SIDE N.T.S.	Q STEEL COLUMN TO STEEL BEAM CONNECTION N.T.S.
R WAREHOUSE STAIR ANCHORAGE TO CONC. TILT-UP N.T.S.	S WAREHOUSE STAIR LANDING ANCHORAGE TO TILT-UP N.T.S.	T WAREHOUSE FLOOR ANCHORAGE TO CONC. TILT-UP N.T.S.	U CONCRETE FLOOR ANCHORAGE TO CMU WALL N.T.S.	V WIDE FLANGE JOIST/BEAM BEARING ON CMU WALL N.T.S.

6/18/2024

DATE:

23070

JOB NUMBER:

N.T.S.

SCALE:

J.H.C.

DRAWN:

J.H.C.

CHECKED:



M
RW

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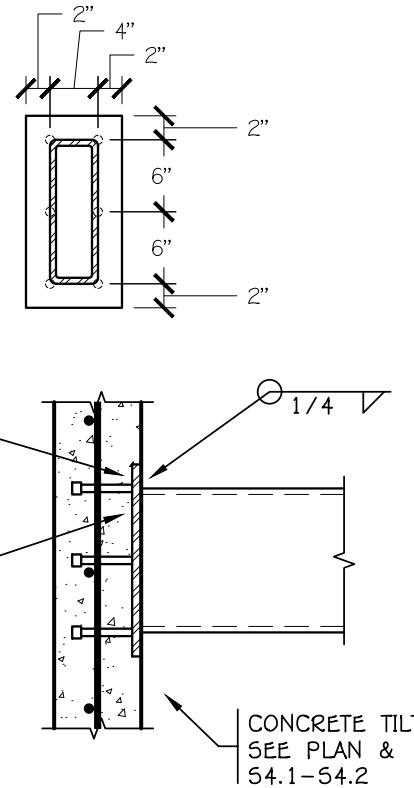
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S8.3
OF SHEETS

 A CONCRETE FLOOR ANCHORAGE TO CMU SHEAR WALL N.T.S.	 B CONCRETE FLOOR ANCHORAGE TO CMU SHEAR WALL N.T.S.	 C WIDE FLANGE JOIST CONNECTION TO WIDE FLANGE BM N.T.S.	 D CANTILEVERED FLOOR N.T.S.	 E CANTILEVERED FLOOR N.T.S.
 F FLOOR DIAPHRAGM ANCHORAGE TO CMU WALL N.T.S.	 G FLOOR DIAPHRAGM ANCHORAGE TO CMU WALL N.T.S.	 H ELEVATOR OPENING FLOOR DETAIL N.T.S.	 J FLOOR OPENING DETAIL N.T.S.	 K CANTILEVERED FLOOR N.T.S.
 L STRINGER TO BEAM CONNECTION N.T.S.	 M STAIR STRINGER CONNECTION TO FLOOR FRAMING N.T.S.	 N STAIR STRINGER CONNECTION TO LANDING BEAM N.T.S.	 P LANDING BEAM FLOOR DETAIL N.T.S.	 Q LANDING BEAM FLOOR DETAIL N.T.S.
 R STAIR LANDING BEAM CONNECTION TO COLUMN N.T.S.	 S STAIR STRINGER/LANDING BEAM N.T.S.	 T H5512x2 BEAM ANCHORAGE TO CONCRETE TILT-UP N.T.S.	 U H55 CORNER DETAIL N.T.S.	 V WIDE FLANGE JOIST SPlice @ BEARING ON CMU WALL N.T.S.



This technical drawing illustrates a concrete tilt-up panel section. A vertical column on the left contains text labels:

- "H.S.A. SPACED 2" OFF PLATE EDGE TYP." pointing to a top horizontal plate.
- "16"Vx3/4"x8"H EMBED P W/(6)-3/4" DIA x 5-3/4" H.S.A." pointing to a middle vertical plate.

A dimension line at the top right indicates a thickness of "1/4".

An arrow on the right points to a vertical column labeled:

CONCRETE TILT-UP
SEE PLAN &
54.1-54.2

A DECK SPAN PARALLEL TO CANOPY BEAM
N.T.S.

B DECK SPAN PERPENDICULAR TO CANOPY BEAM
N.T.S.

C H5512x4 BEAM ANCHORAGE TO CONCRETE TILT-UP
N.T.S.

D ROOF DECK ANCHORAGE TO CONCRETE TILT-UP
N.T.S.

E ROOF DECK ANCHORAGE TO CONCRETE TILT-UP
N.T.S.

F ROOF JOIST BEARING & TIE OVER ROOF GIRDER
N.T.S.

G SEISMIC ROOF DIAPHRAGM CHORD SYSTEM
N.T.S.

H OUT-OF-PLANE & SLIDING ROOF CONNECTION
N.T.S.

J RETAINING WALL SCHEDULE
N.T.S.

K JOIST BEARING AT TILT UP PANEL JOINT
N.T.S.

L WIDE FLANGE BEAM TO WIDE FLANGE BEAM CONN.
N.T.S.

M CMU PARTITION WALL SUPPORT
N.T.S.

N ELEVATOR SAFETY BEAM ANCHORAGE TO CMU WALL
N.T.S.

RETAINING WALL FOUNDATION SCHEDULE

HEIGHT	DIMENSIONS				REINFORCEMENT			
	A	B	C	D	VERTICAL "H"	"T"	"L"	
3'-10"	8"	8"	8"	12"	#4@14"	#4@12"	#5@14" (3)-#4	
4'-7"	8"	8"	1'-2"	12"	#4@14"	#4@12"	#5@14" (4)-#4	