SPLICE LENGTHS FOR REINFORCEMENT IN NORMAL WEIGHT CONCRETE¹ Per ACI 318-08

REINFORCING YIELD STRENGTH: 60 ksi CONCRETE COMPRESSIVE STRENGTH: 3000 psi

				MI	N. CENTER TO	Вс	ottom Bars		Top Bars ⁵		
				CENT	ER BAR SPACING	MINIMUM	CLASS	CLASS	MINIMUM	CLASS	CLASS
,				NO.		EMBEDMENT	"A"	"B"	EMBEDMENT	"A"	"B"
	BAR	AREA	DIA.	BAR		LENGTH	SPLICE	SPLICE	LENGTH	SPLICE	SPLICE
	SIZE	/ (I \L_/ \	<i>Di</i> , (.	DIA.			LENGTH ²	LENGTH ³		LENGTH ²	LENGTH ³
		(in ²)	(in)	(d)	(inches)	(in)	(in)	(in)	(in)	(in)	(in)
	#3	0.11	3/8	2	0 TO 3/4	24.65	25	33	32.04	33	42
ı				3	3/4 TO 1 1/8	16.43	17	22	21.36	22	28
ı				4	1 1/8 TO 1 1/2	12.32	13	17	16.02	17	21
ı				5	1 1/2 AND ABOVE	12.00	12	16	12.82	13	17
ı	#4	0.20	1/2	2	0 TO 1	32.86	33	43	42.72	43	56
ı				3	1 TO 11/2	21.91	22	29	28.48	29	38
١				4	1 1/2 TO 2 1/2	16.43	17	22	21.36	22	28
				5	2 1/2 AND ABOVE	13.15	14	18	17.09	18	23
ı	#5	0.31	5/8	2	0 TO 1 1/4	41.08	42	54	53.40	54	70
ı				3	1 1/4 TO 1 7/8	27.39	28	36	35.60	36	47
ı				4	1 7/8 TO 3 1/8	20.54	21	27	26.70	27	35
ı				5	3 1/8 AND ABOVE	16.43	17	22	21.36	22	28
	#6	0.44	3/4	2	0 TO 1 1/2	49.30	50	65	64.08	65	84
ı				3	1 1/2 TO 2 1/4	32.86	33	43	42.72	43	56
				4	2 1/4 TO 3 3/4	24.65	25	33	32.04	33	42
ı				5	3 3/4 AND ABOVE	19.72	20	26	25.63	26	34
ı	#7	0.60	7/8	2	0 TO 13/4	71.89	72	94	93.46	94	_^ 122
ı				3	1 3/4 TO 2 5/8	47.93	48	63	62.30	63	81
				4	2 5/8 TO 4 3/8	35.94	36	47	46.73	47 /	61
				5	4 3/8 AND ABOVE	28.76	29	38	37.38	38	49
	#8	0.79	1	2	0 TO 2	82.16	83	107	106.81	107	139
				3	2 TO 3	54.77	55	72	71.20	72	93
				4	3 TO 5	41.08	42	54	53.40	54	7,0
				5	5 AND ABOVE	32.86	33	43	42.72	43	/56
	#9	1.00	1.13	2	0.00 TO 2.26	92.67	93	121	120.48	121	157
ı				3	2.26 TO 3.38	61.78	62	81	80.32	81	105
ł				4	3.38 TO 5.64	46.34	47	61	60.24	61	79
ı				5	5.64 AND ABOVE	37.07	38	49	48.19	49	63
ı	#10	1.27	1.27	2	0.00 TO 2.54	104.34	105	136 /	135.64	136	177
ı				3	2.54 TO 3.81	69.56	70	91	90.43	91	118
ı				4	3.81 TO 6.35	52.17	53	68	67.82	68	89
I				5	6.35 AND ABOVE	41.74	42	55	54.26	55	71
ı	#11	1.56	1.41	2	0.00 TO 2.82	115.84	116	151	150.60	151	196
I				3	2.82 TO 4.23	77.23	78	101	100.40	101	131
		i		4	4.23 TO 7.05	57.92	58	76	75.30	76	98 /
				5	7.05 AND ABOVE	46.34	47	61	60.24	61	79

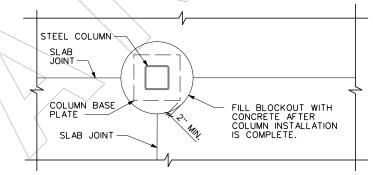
TABLE 'A' NOTES

- TABLE A PRESENTS LENGTHS OF TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS BASED ON ACI 318-05, SECTION 12.2.2.
- CLASS A LAP LENGTHS APPLY WHEN BAR LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME LOCATION OR WHEN BARS ARE LAPPED AT A LOCATION WHERE THE REINFORCEMENT AREA PROVIDED IS AT LEAST TWICE THAT REQUIRED.
- CLASS B LAP LENGTHS APPLY WHEN ALL BARS ARE SPLICED AT A LOCATION OF MAXIMUM STRESS IN THE BARS
- MIN. CONC. COVER MEASURED FROM THE BAR CENTER SHALL BE AT LEAST $\frac{1}{2}$ THE MIN. CENTER TO CENTER BAR SPACING.
- TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF CONCRETE IS CAST BELOW THE REINFORCEMENT.
- MULTIPLY LENGTHS SHOWN BY 1.3 FOR LIGHTWEIGHT AGGREGATE/CONCRETÉ.
- MULTIPLY LENGTHS SHOWN BY 1.5 (1.3 FOR TOP BARS) FOR EPOXY COATED BARS W/ COVER LESS THAN 3d OR CLEAR SPACING LESS THAN 6d. ALL OTHER EPOXY COATED BARS SHALL BE MULTIPLIED BY 1.2.
- FOR 4500 PSICONCRETE MULTIPLY VALUES IN TABLE 'A' BY 0.816. BOTTOM_BARS SHALL NOT HAVE AN EMBEDMENT LENGTH, CLASS "A" SPLICE LENGTH, AND CLASS "B" SPLICE LENGTH OF LESS THAN 12"

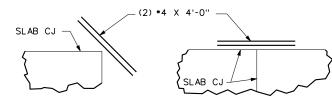
\TABLE S-001

CONCRETE AND FOUNDATION NOTES

- 1. ALLOWABLE SOIL BEARING PRESSURE (NET) IS 2.0 KSF. SUBGRADE SOIL PREPARATION SHALL CONSIST OF REMOVING EXISTING SOIL MATERIALS FOR THE ENTIRE FOOTPRINT OF THE BUILDING AND FOR A DISTANCE OF 5'-0" OUTSIDE OF THE EDGE OF THE BUILDING EXTERIOR FOOTINGS FOR A DEPTH OF ['- "] BELOW THE BOTTOM OF FOOTINGS. BACKFILL EXCAVATION WITH AN APPROVED NON-EXPANSIVE FILL MATERIAL COMPACTED AS SPECIFIED IN SECTION 31 00 00 - "EARTHWORK"
- SUB GRADE PREPARATION FOR STRUCTURAL SLABS ON GROUND, THOSE SLABS ADDRESSED IN STRUCTURAL DRAWINGS, SHALL BE PER (<J/S-002>>, UNO.
- CONCRETE USED FOR INTERIOR SLABS SHALL HAVE A SPECIFIED MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. CONCRETE FOR ALL OTHER PURPOSES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS, UNO.
- 4. CONCRETE REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. REINFORCING TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706, GRADE 60. UNLESS NOTED OTHERWISE.
- 5. UNLESS OTHERWISE NOTED, LAP SPLICES OR EMBEDMENT LENGTHS SHALL CONFORM TO
- UNLESS NOTED OTHERWISE, CONCRETE COVER OVER STEEL REINF SHALL CONFORM TO THE MINIMUMS REQUIRED BY ACI 318-08.
- 7. FABRICATION OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE DETAILS OF ACI 315-99, "DETAILING OF CONCRETE REINFORCEMENT"
- 8. ALL SLAB REENTRANT CORNERS SHALL HAVE (2)-*4 X 4'-0" BAR AT 45° TO THE CORNER, UNLESS THERE IS A JOINT COMING OFF THE REÉNTRANT CORNER.
- 9. FLOOR SLAB JOINTS SHALL BE CONSTRUCTION OR CONTRACTION JOINTS.
 JOINTS SHALL BE LOCATED AS SHOWN ON THE FOUNDATION PLANS. FOR CONSTRUCTION AND CONTRACTION JOINT DETAILS SEE <<C/>
 <C/S-002>>
- 10. CORNER BARS SHAL BE PROVIDED AT ALL CORNERS AND INTERSECTIONS OF CONCRETE BEAMS, GRADE BEAMS, WALLS, AND STEM WALLS. SEE
- 11. ALL SLAB EDGÈS SHALL BE CHAMFERED ¾" ON EXPOSED CÒRNERS UNLESS
- 12. FLOOR SLAB ON GROUND TOP MAT REINFORCING SHALL BE LOCATED 11/2" CLEAR FROM TOP OF SLABS AND 3" CLEAR FROM BTM. OF THE SLAB FOR A BTM. MAT IF APPLICABLE UNLESS NOTED OTHERWISE. IF ONLY ONE MAT OF STEEL IS REQUIRED THEN IT SHALL BE CONSIDERED A TOP MAT.
- 13. FOR TYPICAL CONCRETE SLAB OR WALL OPENING REINFORCING SEE <<D/>
- 14. FOR TYPICAL INTERIOR EQUIPMENT PAD, SEE <<A/></A/S-002>>.
- 15. ∕FOR TYPICAL EXTÉRIOR ÈQUIPMENT PAD, SEÈ√<B/S∕002>>.
- 6. FOR TYPICAL REINF. AT CONC. SLAB BLOCKOUT FOR STEEL COLUMN, SEE <
- 17. FOR TYPICAL RECESSED SLAB DETAIL SEE <<G/>
 <G/s-002>>.
- 18. FOR TYPICAL OUTSIDE STOOP DETAIL SEE <<H/S-002>> AND ARCH.FLOOR PLANS FOR LOCATIONS AND SIZES.



TYPICAL AT COLUMN BLOCK OUT IN CONCRETE SLAB SCALE: NOT TO SCALE



TYPICAL REINFORCING AT DISCONTINUOUS CJ'S SCALE: NOT TO SCALE \s-001/

GENERAL STRUCTURAL NOTES

- 1. DESIGN LOADS (UFC 3-301-01, 27JAN 2010, W/ CHANGE 2 31 JAN 2011, UNO):
- a. COLLATERAL ROOF DEAD LOAD (PEMB): 10 psf.
- b. ROOF LIVE LOAD:-----20 psf FLOOR LIVE LOAD:----psf.
- c. WIND LOADS-----ASCE 7-05. BASIC WIND SPEED OF __ MPH, EXPOSURE "_".
- d. SEISMÌÇ: USACE UFC 3-310-04-21 JUN 2007 W/CHANGE 1 JAN 27, 2010

SEISMIC IMPORTANCE FACTOR: __.

OCCUPANCY CATEGORY: ___

MAPPED SPECTRAL RESPONSE ACCELERATIONS:

SITÉ CLASSIFICATION: __.

ŠPECTRAL RESPONSE COEFFICIENTS:

SEISMIC DESIGN CATEGORY: __.

BASIC SEISMIC-FORCE RESISTING SYSTEM(S): __.

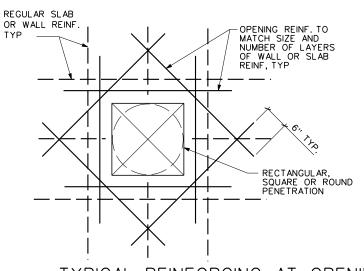
DESIGN BASE SHEAR: __.

SEISMIC RESPONSE COEFFICIENT(S): __.

RESPONSE MODIFICATION FACTOR(S): __.

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE.

- 2. ALL PROPRIETARY SYSTEMS OR ACCESSORIES DESIGNATED IN THESE PLANS AS "OR EQUAL" MAY BE SUBSTITUTED WITH ANOTHER SYSTEM THAT HAS LOAD CAPACITY GREATER THAN OR EQUAL, AND DEFLECTION LESS THAN OR EQUAL TO THE SYSTEM DESIGNATED. APPROVAL SHALL BE REQUESTED FOR ANY SUBSTITUTIONS BY THE ENGINEER OF RECORD THROUGH AN RFI. THE CONTRACTOR SHALL BE HELD FINANCIALLY RESPONSIBLE FOR THE REPLACEMENT OF UNAPPROVED SUBSTITUTIONS WHICH ARE NOT EQUIVALENT TO THE DESIGNATED SYSTEM OR ACCESSORY
- 3. ALL PROPRIETARY SYSTEMS AND ACCESSORIES SHALL BE INSTALLED WITH STRICT ADHERENCE TO MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
- SEE <<S-007>> FOR ABBREVIATIONS USED ON THE STRUCTURAL SHEETS.
- ALL NOTES, SCHEDULES, SECTIONS, AND DETAILS ON SHEETS <<S-001>> THRU <<S-007>> SHALL APPLY, UNO.



TYPICAL REINFORCING AT OPENING IN CONCRETE SLAB OR WALL SCALE: NOT TO SCALE S-001

EDITOR'S NOTE: FOUNDATION AND GENERAL STRUCTURAL NOTES. EDITED JAN 18, 2012.

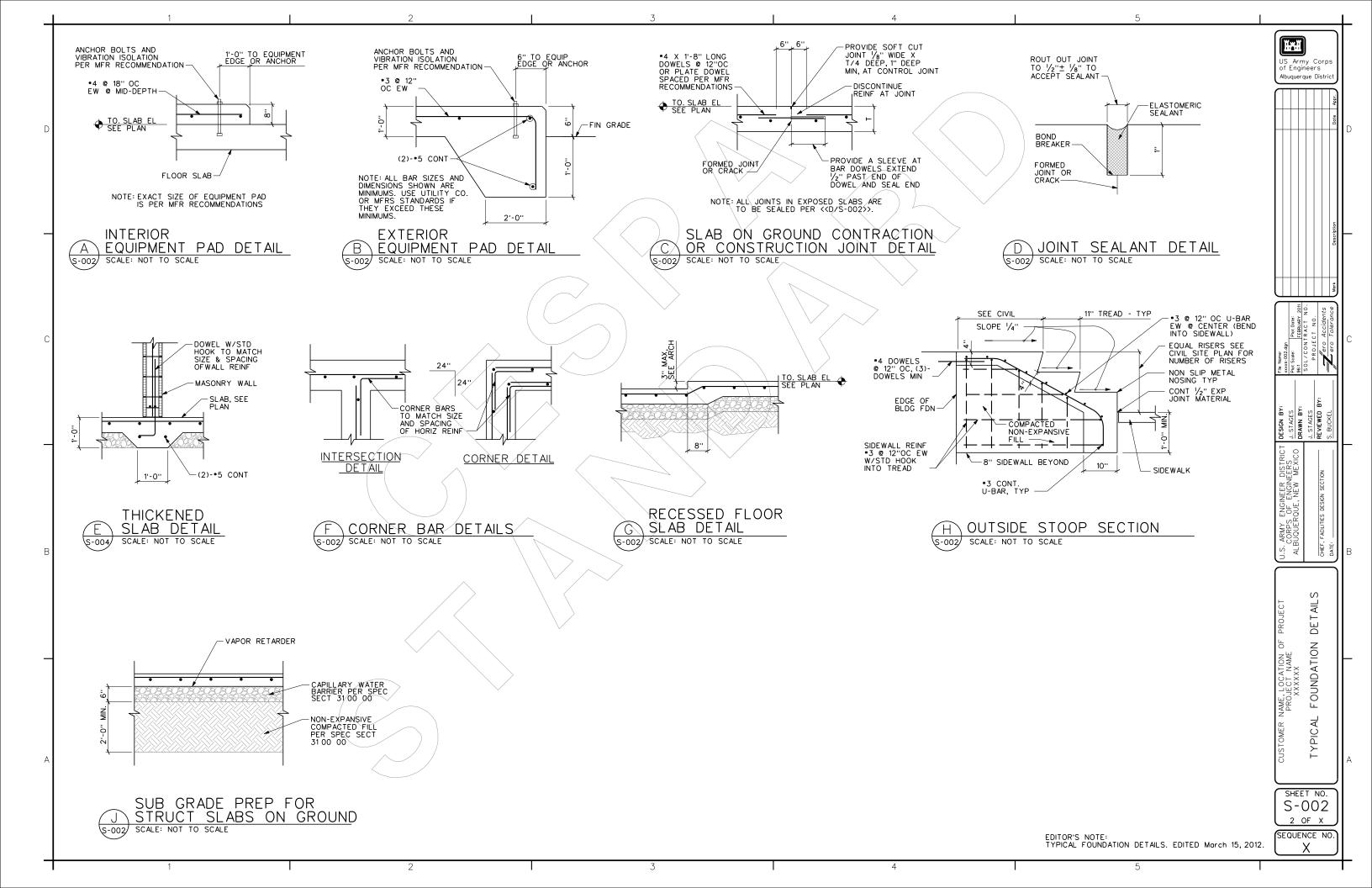
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SHEET NO. S-001 1 OF X

SEQUENCE NO.



STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL" 13TH EDITION.
- 2. ALL WIDE FLANGE SHAPES SHALL BE ASTM A992. ALL OTHER STRUCTURAL STEEL, OTHER THAN TUBES, SHALL BE ASTM A36. ALL TUBE STEEL SHALL BE ASTM A500, GRADE B.
- 3. ALL BOLTS FOR STEEL CONNECTIONS SHALL BE ASTM A325 WITH A MINIMUM DIAMETER OF $\frac{3}{4}$ " UNLESS OTHERWISE NOTED. ALL BOLTED CONNECTIONS NOT DETAILED SHALL BE DESIGNATED AS BEARING-TYPE CONNECTIONS, WASHERS SHALL BE INSTALLED UNDER NUTS OF FASTENERS.
- ALL WELDING SHALL CONFORM TO THE PROVISIONS OF AWS D1.1:2010 CODE, USING E70XX ELECTRODES.
- 5. ALL FILLET WELDS SHALL BE $\frac{3}{16}$ " MIN. SIZE, UNO. MIN. CONNECTION OF ADJACENT STEEL PARTS SHALL BE MADE WITH FILLET OR FLARE BEVEL WELD ALL AROUND, UNO.
- ALL CAST IN PLACE ANCHOR BOLTS SHALL BE ASTM A307 OR ASTM F1554, UNLESS NOTED OTHERWISE.
- 7. ALL ANCHORS NOTED AS EPOXY ANCHORS SHALL BE ALL THREAD RODS CONFORMING TO ASTM A307 OR ASTM F1554 EMBEDDED IN HILTIHIT HY 150 ADHESIVE, OE. ROD DIAMETER AND EMBEDMENT SHALL BE AS NOTED ON PLAN.
- 8. ALL STEEL BEAMS BEARING ON MASONRY OR CONCRETE WALLS SHALL BE SLIDE BEARING CONNECTIONS AS DETAILED ON <<J1/>
 VOINTERNISE
- FOR CONCRETE SLAB ON STEEL DECK CONTRACTION AND CONSTRUCTION JOINTS, SEE DETAIL <<G/S-006>>.
- BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE PER THE CONNECTION SCHEDULES ON <<S-006>> UNLESS NOTED OTHERWISE.
- 11. ALL DECK ANGLES SHALL BE SPLICED TOGETHER AS SHOWN IN <<D/S-003>>.
- 12. FOR FRAMING AT ROOF PENETRATIONS, SEE TYPICAL DETAIL $\langle B/S-006 \rangle \rangle$ SEE ARCH AND MECH DRAWINGS FOR ROOF OPENINGS.
- 13. SEE STEEL DECK SCHEDULE THIS SHEET FOR DECKING AND ATTACHMENT INFORMATION.

14. STEEL BAR JOISTS:

- a. WEB REINFORCING PER <<E/S-006>> SHALL BE PROVIDED AT ALL LOCATIONS WHERE LOADS GREATER THAN 50LB ARE APPLIED TO THE TOP OR BOTTOM CHORD OF JOISTS.
- b. STEEL BAR JOIST BRIDGING IS NOT SHOWN ON THE FRAMING PLANS. PROVIDE BRIDGING PER SJISPECIFICATIONS AND OSHA STEEL ERECTION STANDARDS. SEE <<C/S-006>> AND <<D/><CD/S-006>> FOR BRIDGING CONNECTION DETAILS.
- c. UNLESS NOTED OTHERWISE, ALL STEEL BAR JOISTS SHALL BE DESIGNED FOR A NET WIND UPLIFT LOAD OF 15 PSF.
- d. FOR BRACING OF JOISTS ON EACH SIDE OF A COLUMN SEE DETAILS <<A/S-006>>
- e. K & KCS-SERIES JOISTS SHALL BE ATTACHED TO BEARING PLATES, BEAMS AND JOIST GIRDERS WITH EITHER A MINIMUM OF (2)- $\frac{1}{6}$ "x 1" LONG FILLET WELDS OR TWO $\frac{1}{2}$ "ø ASTM A307 BOLTS, UNLESS SPECIFICALLY DETAILED.
- f. LH & DLH-SERIES JOISTS SHALL BE ATTACHED TO BEARING PLATES, BEAMS AND JOIST GIRDERS WITH EITHER A MINIMUM OF (2)-1/4"x 2" LONG FILLET WELDS OR TWO 3/4"0 ASTM A307 BOLTS, UNLESS SPECIFICALLY DETAILED.

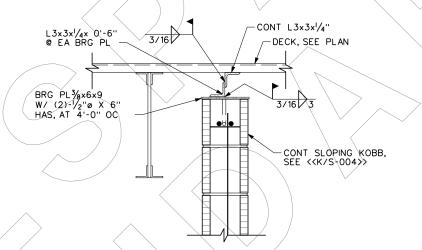
	STEEL DECK SCHEDULE						
LABEL	DESCRIPTION	SUPPORT FASTENERS	SUPPORT EDGE SIE FASTENERS FAST				
1.5B	VULCRAFT 1.5" TYPE 'B', 20 GAGE DECK	%"ø PUDDLE WELDS IN 7/36 PATTERN	%"ø PUDDLE WELDS © 12"OC	*10 SCREWS @ 12"/0C			
2VLI	VULCRAFT 2" TYPE VLI, 20 GAGE DECK	5/8"ø PUDDLE WELDS IN 7/36 PATTERN	%"ø PUDDLE WELDS © 12"OC	*10 SCREWS @ 12"OC			

STEEL DECK SCHEDULE NOTES:

- a. DECKING SHALL BE CONTINUOUS OVER AT LEAST (3) SUPPORTS:
- EACH DECKING PANEL SHALL BE ATTACHED TO SUPPORTING MEMBERS AND ADJACENT PANELS AS INDICATED.
- c. DECKING SHALL BE AS INDICATED OR APPROVED EQUAL.
- d. FOR FRAMING AT ROOF PENETRATIONS, SEE TYPICAL DETAIL <SEE ARCH AND MECH DRAWINGS FOR ROOF OPENINGS.

¾"ø THREADED STUD EA SIDE OF BEAM 2" LONG SLOTTED HOLE WEB, WELDED TO BRG PL IN BEAM FLANGE AND TOP TEFLON PAD IN SELF LOCKING NUT W/ WASHER, LEAVE 16" GAP DIRECTION OF BEAM BETWEEN NUT AND WASHER BEAM FLANGE ⅓2" x 4" x BEAM WIDTH TEELON PAD ON AN 1/8" STEEL BACKING PLATE, WELD BACKING PLATES TO BEARING PLATE AND BEAM FLANGE, RESPECTIVELY

A SLIDE BEARING PLATE DETAIL SCALE: NTS

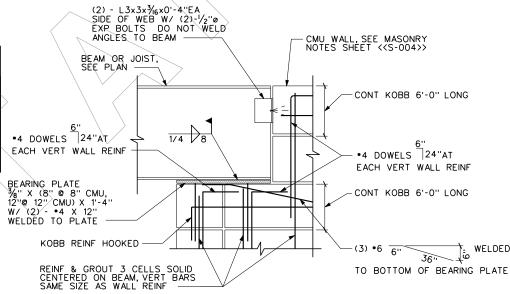


- BEARING PLATE

TYPICAL CONNECTION OF

B DECK TO CMU WALL DETAIL

S-003 SCALE: NTS



ANCHORAGE OF DRAG STRUT (BEAM, PURLIN OR JOIST) ON END OF CMU WALL DETAIL

S-003 SCALE: NTS

PRE-ENGINEERED METAL BUILDING NOTES

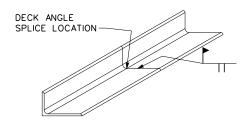
- THE BUILDING SHALL BE A PRE-ENGINEERED METAL STRUCTURE OF THE AREA AND HEIGHT SHOWN.
- 2. MINIMUM WEB THICKNESS OF RIGID FRAMES SHALL BE $^3\!\!/_6$ ". LIGHT GAGE ENDWALL COLUMNS ARE NOT ALLOWED.
- 3. THE NUMBER AND SPACING OF THE RIGID FRAMES, COLUMNS, X-BRACING AND PORTAL FRAMES SHALL BE AS SPECIFIED ON THE DRAWINGS, (NO EXCEPTIONS).
- 4. THE BUILDING SHALL BE DESIGNED AND FABRICATED ACCORDING TO AISC AND AISI LATEST SPECIFICATIONS, THE DIMENSIONAL TOLERANCES APPLICABLE TO ROLL FORM STEEL UNDER THE AISC "STANDARD MILL PRACTICE" SECTION SHALL BE REQUIRED IN THE FABRICATION OF THE RIGID FRAMES.
- 5. THE BUILDING SHALL BE DESIGNED TO SUPPORT ALL MECHANICAL & ELECTRICAL EQUIPMENT INCLUDING HEATERS, SPRINKLERS, EXHAUST SYSTEMS, AND ALL OTHER DEVICES. ADDITIONAL GIRTS OR PURLINS SHALL BE PLACED IN CONVENIENT LOCATIONS FOR SUPPORT AND ATTACHMENT OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT.
- 6. DESIGN LOADS SHALL CONFORM WITH THE GENERAL NOTES. LOAD COMBINATIONS SHALL COMPLY WITH THE MBMA METAL BUILDING SYSTEMS MANUAL.
- 7. LATERAL LOADS SHALL BE RESISTED BY ROD X-BRACING, RIGID FRAMES, OR PORTAL FRAMES. WALL AND ROOF PANELS SHALL NOT BE DESIGNED AS DIAPHRAGMS TO TAKE LATERAL LOADS. CABLE BRACING IS NOT ALLOWED.
- 8. WIND LOADING SHALL BE BASED ON PARTIALLY ENCLOSED BUILDING CALCULATION WITH HANGER AND OVERHEAD DOORS CONSIDERED AS OPENINGS.
- 9. THE BUILDING SHALL BE DESIGNED FOR LOADS, LATERAL AND OTHERWISE, INDUCED ON THE BUILDING BY INTERRIOR PARTITION WALLS.
- 10. ANCHOR BOLTS SHALL BE DESIGNED BY A REGISTERED STRUCTURAL ENGINEER ENGAGED BY THE CONTRACTOR FOR THE LOADS FURNISHED BY THE METAL BUILDING MANUFACTURER, UNLESS NOTED OTHERWISE. THE ANCHOR BOLT DESIGN SHALL INCLUDE EMBEDMENT DEPTHS. ANCHOR BOLTS SHALL BE FURNISHED BY THE CONTRACTOR
- 11. A FOUNDATION REACTIONS SUBMITTAL SHALL BE SUBMITTED BEFORE FOUNDATION REINFORCING SHOP DRAWINGS ARE SUBMITTED AND SHALL INCLUDE MAGNITUDES AND DIRECTIONS OF REACTIONS TO ALLOW FOR VERIFICATION OF FOUNDATION DESIGNS. THE SUBMITTAL SHALL INCLUDE REACTION ENVELOPES FOR BOTH LOAD CASES AND LOAD COMBINATIONS.

INSULATED METAL WALL PANELS

- PANELS AND CONNECTIONS SHALL BE DESIGNED TO SPAN VERTICALLY BETWEEN THE HSS GIRTS FOR THE FOLLOWING LOADS:
 - -EXTERNAL PRESSURE: xx PSF
 - -SUCTION (NEGATIVE PRESSURE): xx PSF
- 2. WALL PANEL AND CONNECTION DESIGN SHALL BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED FOR APPROVAL.

PRE-ENGINEERED STAIRS

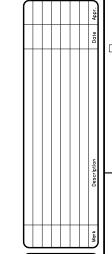
- STAIR STRINGERS, TREADS, RISERS, LANDINGS, RAILINGS, AND OTHER ACCESSORIES TO COMPRISE A COMPLETE SYSTEM SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR.
- CONNECTIONS OF THE STAIR SYSTEM TO THE SUPPORTING STRUCTURE SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR.
- 3. SUBMIT DESIGN CALCULATIONS AND DRAWINGS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER.
- 4. SEE ARCH FOR ADDITIONAL REQUIREMENTS.



DECK ANGLE SPLICE
S-003 SCALE: NTS

EDITOR'S NOTE: STRUCT NOTES AND TYPICAL DETAILS. EDITED MARCH 9, 2012.

US Army Corps of Engineers Albuquerque Distric



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DESIGN BT: 1 STACE | POLSON BT: 2 STACE | POLSON BT

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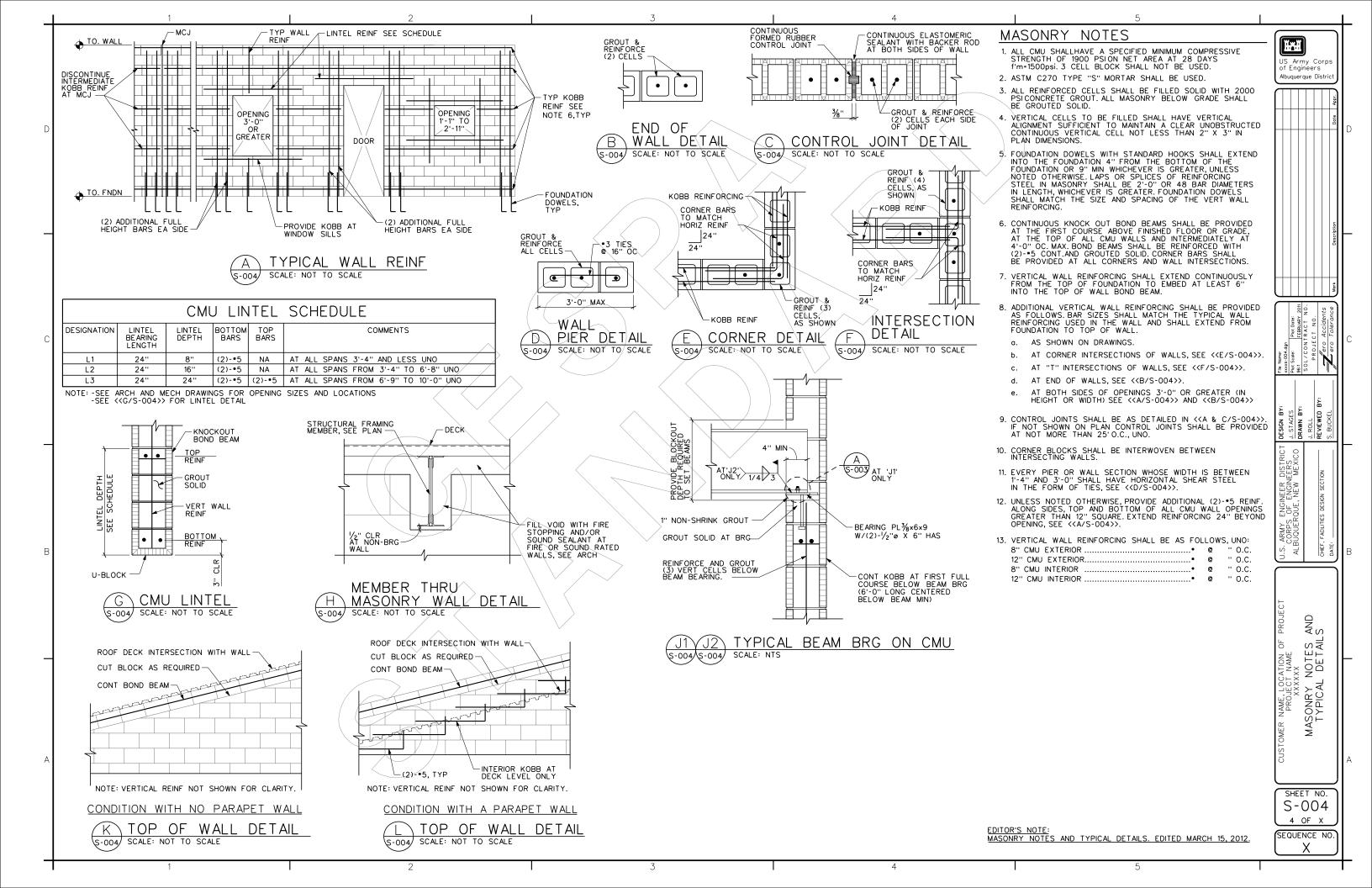
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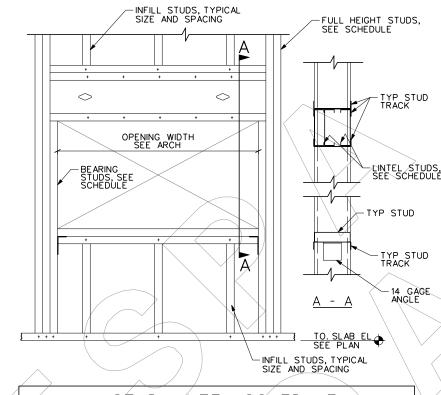
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STRUCTURAL STUD WALL NOTES

- STRUCTURAL STUDS WALLS ARE THOSE LOCATED AND IDENTIFIED ON STRUCTURAL PLAN SHEETS AND DETAILS AND SHALL BE CONSTRUCTED AS DESCRIBED HEREIN.
- STRUCTURAL STUD WALL AND EXTERIOR SOFFIT FRAMING SHALL CONFORM TO THE STRUCTURAL STUD SCHEDULE THIS SHEET.
- ALL WELDING SHALL CONFORM TO THE PROVISIONS OF AWS D1.1 AND ANSI/AWS D1.3-10. WHERE THE WELD THROAT IS NOT SHOWN ON THE DRAWINGS, THE WELD THROAT SHALL BE AT LEAST AS LARGE AS THE THICKNESS OF THE THINNEST SHEET JOINED. ALL WELDS SHALL PROVIDE COMPLETE FUSION OF THE SHEETS WITHOUT "BLOWOUTS".
- AT TRACK BUTT JOINTS, ABUTTING PIECES OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT OR THEY SHALL BE SPLICE WELDED TOGETHER.
- STRUCTURAL STUD WALLS SHALL BE ANCHORED TO THE FOUNDATION WITH $\frac{1}{4}$ " $_0$ x 4" EMBED EPOXY ANCHORS SPACED AT 4'-0" OC MAX AND LOCATED NO MORE THAN 8" FROM WALL ENDS OR CORNERS, UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STUD WALLS SHALL HAVE ROWS OF HORIZONTAL BRIDGING INSTALLED AT A MAXIMUM OF 4'-0" OC BRIDGING AND INSTALLATION SHALL BE IN ACCORDANCE WITH SSMA STANDARDS.
- AT A MINIMUM ALL STRUCTURAL STUD WALLS SHALL HAVE A CONTINUOUS 14 GAGE TRACK AT THE TOP AND BOTTOM OF THE WALL. THE TRACK SHALL MATCH THE SIZE OF STUD IT IS BEING APPLIED TO AND SHALL HAVE AT LEAST AN 1 1/4" WIDE FLANGE.
- ALL STRUCTURAL STUDS SHALL BEAR FULLY ON THE BOTTOM TRACKS. ALL STUDS SHALL BE ATTACHED TO TRACKS WITH (1)-•12 SCREW IN EACH FLANGE, MINIMUM.
- 9. FOR STUD WALL OPENINGS SEE STUD WALL OPENING DETAIL AND LINTEL SCHEDULE THIS SHEET.
- 10. FASTEN ALL VERTICAL FASCIA STUDS TO CONT LEDGER ANGLE WITH A MINIMUM 14 GAGE CLIP ANGLE WELDED TO LEDGER ANGLE & FASTENED TO STUD WEB EITHER BY WELDING OR SELF-TAPPING SCREWS.
- 11. VERTICAL SLIDE CLIPS SHALL BE PER <<<>.005>> AND DEFLECTION TRACKS SHALL BE PER <<<..005>> .
- 12. STRUCTURAL WALL TRACKS SHALL BE ATTACHED TO STRUCTURAL STEEL MEMBERS WITH (1)-+12 SELF TAPPING SCREW @ 16"OC, (2)-HILTIX-EGN FASTENERS @ 16"OC, OR (1)-1/8" FILLET WELD ON EACH FLANGE @ 16"OC.
- CONNECTIONS BETWEEN FASCIA AND SOFFIT STUDS AND OTHER STRUCTURAL ELEMENTS SHALL BE MADE WITH (2)-*12 SCREWS OR (2)-1"x1/8" FILLET WELDS MIN, ONE ON EACH FLANGE, UNLESS NOTED OTHERWISE.
- TRACKS OF FASCIA AND SOFFIT FRAMING IN CONTINUOUS CONTACT WITH OTHER TRACKS SHALL BE CONNECTED TO THEM WITH •12 SCREWS AT 16" OC OR 1" OF 1/8" FILLET WELD @ 16" OC, MIN UNO.

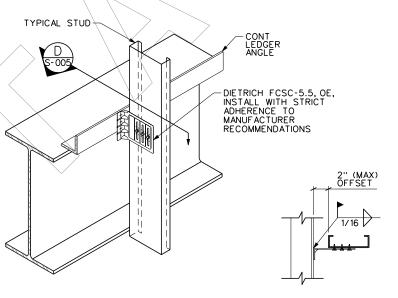
STRU	JCTURAL	STUD S	CHEDULE \
LABEL	SSMA DESIGNATION	STUD SPACING	COMMENTS
6" STUD	600S200-54	16''OC	TYPICAL STUD WALL FRAMING, UNO.
4" STUD	400S162-54	16''OC	TYPICAL SOFFIT & FASCIA FRAMING, UNO.
10" STUD	1005162-54	16''OC	AS NOTED



/		STUD	INTEL S	CHEDULE	
/	OPENING WIDTH	LINTEL STUDS	BEARING STUDS	KING STUDS	COMMENTS
\	UP TO 6'-6"	(2)-STUDS	(2)-STUDS	(2)-STUDS	J -}
	6'-7" - 10'-0"	(3)-STUDS	(2)-STUDS	(2)-STUDS	/ /-
\					

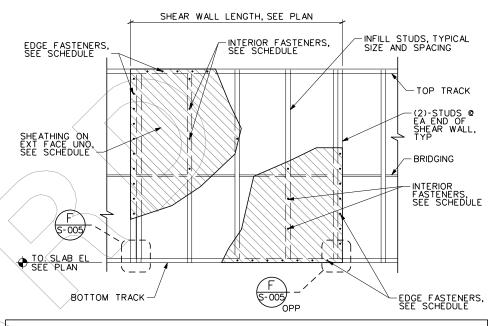
NOTE: STUDS SHALL BE THE SAME AS WALL STUDS DEFINED THIS PAGE

STUD WALL OPENING DETAIL SCALE: NOT TO SCALE S-005,



VERTICAL SLIDE CLIP DETAIL SCALE: NOT TO SCALE



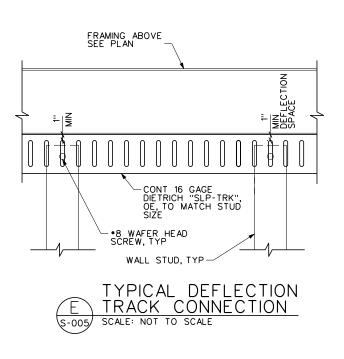


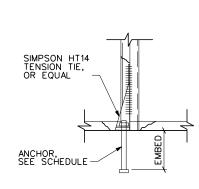
SHEET METAL SHEAR WALL SCHEDULE						
SHEAR WALL SHEATHING		EDGE FASTENERS	INTERIOR FASTENERS	ANCHORS		
SW1	22 GA	*8 X 1/2" SCREW @ 4" OC	*8 X 1/2" SCREW @ 12" OC	¾"ø X 12" EMBED EPOXY ANCHOR		
SW2	22 GA (2)-SIDES	*8 X 1/2" SCREW @ 4" OC	*8 X 1/2" SCREW @ 12" OC	¾"ø X 12" EMBED EPOXY ANCHOR		

NOTES:

- SCREWS SHALL HAVE MODIFIED TRUSS HEADS, BE GALVANIZED AND BE LOCATED AT LEAST 3/8" FROM PANEL EDGES.
- 2. ALL SHEATHING PANELS SHALL BE GALVANIZED AND BE AT LEAST 12" WIDE.
- 3. EDGES OF PANELS SHALL BE FULLY BLOCKED.

SHEAR WALL ELEVATION SCALE: NOT TO SCALE S-005,







EDITOR'S NOTE: STRUCT STUD WALL NOTES AND TYPICAL DETAILS. EDITED MARCH 15, 2012.

SHEET NO. S-005 5 OF X SEQUENCE NO.

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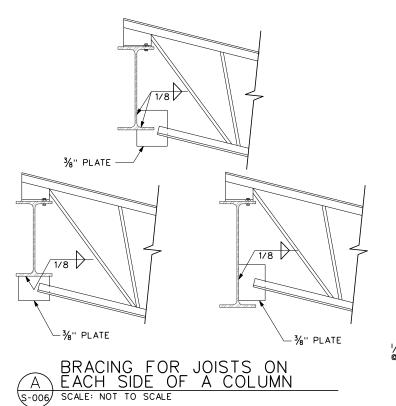
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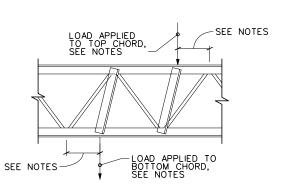
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US Army Corps of Engineers

Albuquerque Distri

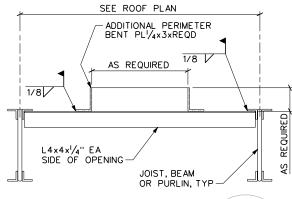




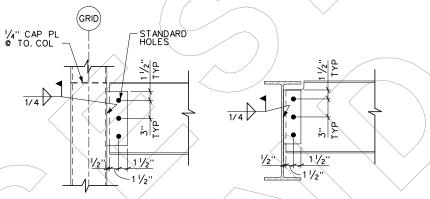
NOTES:

- JOIST STIFFNERS NOT REQUIRED FOR LOADS APPLIED WITHIN 6" OF PANEL POINTS FOR TOTAL LOADS LESS THAN 50LB.
- 2. FOR JOIST SIZE AND SLOPE SEE PLAN.
- FIELD WELDING AND FIELD CONNECTIONS TO JOISTS SHALL BE PERFORMED IN ACCORDANCE WITH MFR RECOMMENDATIONS.





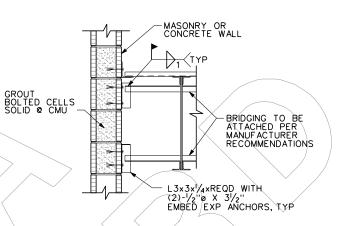
B ROOF DECK PENETRATION
S-006 SCALE: NOT TO SCALE



BE A	M TO HSS	COLUMN CHEDULE
BEAM	SHEAR TAB	BOLTS
W10	3/8"	(2)-3/4"0
W12	3/8"	(3)-3/4"ø
W14	3/8"	(3)-3/4"0
W16	3/8"	(4)-3/4\ø
W18	3/8"	(4)-3/4"ø
W21	3/8"	(5)-3¼4''ø ∑
W24	3×8"	(6)-3/4''ø
W27 /	3/8"	(7)-3/4 ¹ /ø
W30	/3/8"	(8)-3/4"ø

	CON	BEAM TO BEAM DNNECTION SCHEDULE					
	BEAM	SHEAR TAB	BOLTS				
	W8	3/8"	(2)-3/4"ø				
\	W10	3/8"	(2)-3/4"ø				
	W12	3/8"	(3)-3/4"ø				
	W14	3/8"	(3)-3/4"ø				
	W16	3/8"	(4)-3/4"ø				
	W18	3/8"	(4)-3/4"ø				
	W21	3/8"	(5)-3/4"ø				
	W24	3/8"	(5)-3/4''ø				

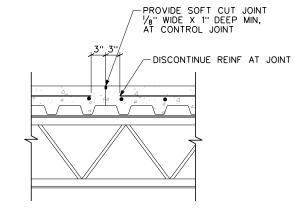
BEAM CONNECTION DETAILS S-006 SCALE: NOT TO SCALE



JOIST BRIDGING CONNECTION AT CMU OR CONCRETE WALL S-006 SCALE: 3/4" = 1'-0"

US Army Corps of Engineers Albuquerque Distric -BRIDGING TO BE ATTACHED PER MANUFACTURER RECOMMENDATIONS -L3x3x¹/₄xREQD WELDED TO (3)-STUDS, TYP

JOIST BRIDGING CONN. AT STUD WALL S-006 SCALE: 3/4" = 1'-0"



NOTE: ALL JOINTS IN EXPOSED SLABS ARE TO BE SEALED PER <<D/>CD/S-002>>.

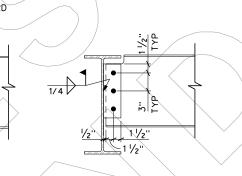
SLAB ON DECK CONSTRUCTION OR CONTRACTION JOINT DETAIL SCALE: NOT TO SCALE

DETAILS FRAMING TYPICAL

SHEET NO. S-006 6 OF X

EDITOR'S NOTE: TYPICAL FRAMING DETAILS. EDITED MARCH 15, 2012.

3/4" = 1'-0"



SEQUENCE NO.

STRUCTURAL QUALITY ASSURANCE PROGRAM

THE CONTRACTOR SHALL ENGAGE INDEPENDENT INSPECTORS TO IMPLEMENT THE FOLLOWING INSPECTIONS IN ACCORDANCE WITH IBC 2006:

INSPECTION ITEM	SCOPE OF INSPECTION	FREQUENCY*
EARTHWORK		
GENERAL EXCAVATION	INSPECT STRATA FOR CONFORMANCE TO THE STRUCTURAL DRAWINGS AND THE SPECIFICATIONS. VERIFY THAT EXCAVATION IS TO PROPER DEPTH OR MATERIAL. VERIFY THAT EXCAVATION IS CONTROLLED AND CONTAINS NO UNSUITABLE MATERIALS.	PER SPECIFICATIONS
BEARING SURFACES OF FOOTINGS	INSPECT BEARING SURFACES FOR CONFORMANCE TO THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS AND THE SPECIFICATIONS.	PER SPECIFICATIONS
FILL MATERIAL	TEST MATERIAL FOR CONFORMANCE TO SPECIFICATIONS. PERFORM LABORATIORY COMPACTION TESTS IN ACCORDANCE WITH THE SPECIFICATIONS TO DETERMINE OPTIMUM WATER CONTENT AND MAXIMUM DRY DENSITY.	PER SPECIFICATIONS
INSTALLATION OF CONTROLLED STRUCTURAL FILL	PROVIDE INSPECTION OF THE INSTALLATION IN ACCORDANCE WITH THE SPECIFICATIONS.	PER SPECIFICATIONS
DENSITY OF FILL	PERFORM FIELD DENSITY TESTS OF THE IN-PLACE FILL IN ACCORDANCE WITH THE SPECIFICATIONS.	PER SPECIFICATIONS
CONCRETE (CAST-IN-PLACE)		
REINFORCEMENT INSTALLATION	INSPECT REINFORCING FOR ASTM TYPE, GRADE, SIZE, QUANTITY, CONDITION, AND PLACEMENT. VERIFY ADEQUATE COVER PER DRAWINGS AND SPECIFICATIONS	PERIODIC
ANCHOR RODS	INSPECT ANCHOR RODS AND HOLDDOWN ANCHORS PRIOR TO AND DURING PLACEMENT OF CONCRETE.	PERIODIC
MASONRY		
BEGINNING OF CONSTRUCTION	AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	PERIODIC
	A. PROPORTIONS OF SITE-PREPARED MORTAR.	
	B. CONSTRUCTION OF MORTAR JOINTS	
	C. LOCATION OF REINFORCEMENT	
PRIOR TO GROUTING	PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:	PERIODIC
	A. GROUT SPACE	
	B. GRADE AND SIZE OF REINFORCEMENT AND CONNECTORS.	
	C. PLACEMENT OF REINFORCEMENT AND CONNECTORS.	
	D. PROPORTIONS OF SITE-PREPARED GROUT.	
	E. CONSTRUCTION OF MORTAR JOINTS.	
GROUTING	VERIFY THAT THE PLACEMENT OF GROUT IS IN COMPLIANCE WITH SPECIFICATIONS	
MATERIAL SAMPLING	OBSERVE PREPARATION OF GROUT SPECIMENS AND MORTAR SPECIMENS.	PERIODIC
STRUCTURAL STEEL		
BOLTING	TEST AND INSPECT BOLTED CONNECTIONS IN ACCORDANCE WITH SPECIFICATIONS. VERIFY BOLT SIZE AND GRADE.	PERIODIC
WELDING	CHECK WELDER QUALIFICATIONS. VISUALLY INSPECT FILLET WELDS AND TEST FULL-PENETRATION FIELD WELDS IN ACCORDANCE WITH SPECIFICATIONS	PERIODIC
STRUCTURAL FRAMING, BRACING, DETAILS, AND ASSEMBLIES	INSPECT FOR SIZE, GRADE OF STEEL, CAMBER, INSTALLATION, AND CONNECTION DETAILS. CHECK AGAINST CONSTRUCTION DOCUMENTS AND APPROVED SHOP DRAWINGS.	PERIODIC
OPEN WEB STEEL JOISTS	INSPECT FOR SIZE, PLACEMENT, BRIDGING, BEARING, AND CONNECTION TO STRUCTURE. VISUALLY INSPECT ALL WELDS OF A MINIMUM OF 5 PERCENT OF THE JOISTS, RANDOMLY SELECTED.	PERIODIC
ANCHOR RODS	VERIFY THAT ALL ANCHOR RODS HAVE BEEN PROPERLY TIGHTENED AND HAVE ADEQUATE FIT-UP.	PERIODIC
METAL DECKING	VERIFY CAUGE WIDTH AND TYPE INSPECT PLACEMENT, LAPS, WELDS, SIDELAP ATTACHMENT, AND SCREWS OR OTHER MECHANICAL FASTENERS. CHECK WELDER'S QUALIFICATIONS	PERIODIC
FIELD CORRECTION OF FABRICATED ITEMS	REVIEW DOCUMENTATION OF APPROVED REPAIRS AND VERIFY COMPLETION OF REPAIRS.	PERIODIC
COLD FORMED STEEL		
SHEAR WALLS, AND HOLDDOWNS	INSPECT THICKNESS AND GRADE OF SHEET METAL STRUCTURAL PANEL, BLOCKING, HOLD-DOWN ANCHORS, AND THE EDGE AND FIELD ATTACHMENT OF THE SHEET METAL PANEL TO THE FRAMING FOR CONFORMANCE TO THE CONSTRUCTION DOCUMENTS APPROVED SUBMITTALS.	PERIODIC

(CONT)

INSPECTION ITEM	SCOPE OF INSPECTION	FREQUENCY*
INSTALLATION	VERIFY THAT TYPE, SIZE, QUANTITY, LOCATION, DETAILS, AND CONNECTIONS OF FRAMING AND BRACING MEMBERS CONFORM TO APPROVED SUBMITTALS AND THE CONSTRUCTION DOCUMENTS.	PERIODIC
WELDING	CHECK WELDERS' QUALIFICATIONS. VERIFY THAT WELDING CONFORMS TO AWS SPECIFICATIONS, APPROVED SUBMITTALS AND THE CONSTRUCTION DOCUMENTS. VISUALLY INSPECT WELDS	PERIODIC
OTHER FASTENERS	OTHER FASTENERS VERIFY FASTENER TYPE AND INSTALLATION PROCEDURES. VERIFY THAT FASTENERS CONFORM TO APPROVED SUBMITTALS AND THE CONSTRUCTION DOCUMENTS. VERIFY THAT FASTENERS ARE INSTALLED TIGHT.	
FIELD CORRECTION OF FABRICATED ITEMS	REVIEW DOCUMENTATION OF APPROVED REPAIRS AND VERIFY COMPLETION OF REPAIRS.	PERIODIC

*NOTE: PERIODIC INSPECTION IS DEFINED AS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING INSPECTION BY AN APPROVED INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

STRUCTURAL ABBREVIATIONS AND SYMBOLS

AB	ANCHOR BOLT	FOM	FACE OF MASONRY	PCF	POUNDS PER CUBIC FOOT
ACI	AMERICAN CONCRETE INSTITUTE	FR	FRAME(D), FRAMING	PED	PEDESTAL
ADH	ADHESIVE	FS	FAR SIDE	PERF	PERFORATE(D)
ADJ	ADJACENT	FT	FOOT, FEET	PERP	PERPENDICULAR
AFF	ABOVE FINISHED FLOOR	FTG	FOOTING	PLF	POUNDS PER LINEAL FOOT
AGG	AGGREGATE	GA	GAGE, GAUGE	PL	PLATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GALV	GALVANIZED	PSF	POUNDS PER SQUARE FOOT
AISI	AMERICAN IRON STEEL INSTITUTE	GEN	GENERAL	PSI	POUNDS PER SQUARE INCH
AL T	ALTERNATE	GOVT	GOVERNMENT	PT	POINT
ANC	ANCHOR(AGE)	GRD	GROUND/GRADE	QTY	QUANTITY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HAB	HEADED ANCHOR BOLT	RAD	RADIUS
APPROX	APPROXIMATE	HAS	HEADED ANCHOR STUD	RCP	REINFORCED CONCRETE PIPE
ARCH	ARCHITECT(URAL)	HC	HOLLOW CORE	REBAR	REINFORCING BAR
SCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	HDR	HEADER	REF	REFERENCE
STM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HORIZ	HORIZONTAL	REINF	REINFORCE(D, ING)
ws	AMERICAN WELDING SOCIETY	HS	HIGH STRENGTH	REQD	REQUIRED
ET	BETWEEN	HSB	HIGH STRENGTH BOLT	REV	REVISION(S), REVISED
F	BRACED FRAME	HSS	HOLLOW STRUCTURAL STEEL	SCH	SCHEDULE
LDG	BUILDING	HT	HEIGHT	SEC	SECOND
M	BEAM	ID	INSIDE DIAMETER	SHT	SHEET
OF	BOTTOM OF FOOTING	IN	INCH	SIM	SIMILAR
BOT	BOTTOM	INSUL	INSULATE(D), INSULATION	SJI	STEEL JOIST INSTITUTE
BRG	BE ARING	INT	INTERIOR	SMS	SHEET METAL SCREWS
RDG	BRIDGING	JST	JOIST	SOG	SLAB ON GRADE
:J	CONSTRUCTION JOINT/CONTROL JOINT	JT	JOINT	SPEC	SPECIFICATION(S)
,J L	CENTER LINE	K	KIP	SQ	SQUARE
LR	CLEAR, CLEARANCE	KO	KNOCK-OUT	SSMA	STEEL STUD MANUFACTURER'S ASSOCIATION
MP	CORRUGATED METAL PIPE	KOBB	KNOCK-OUT BOND BEAM	SST	STAINLESS STEEL
:MU	CONCRETE MASONRY UNIT	KSF	KIPS PER SQUARE FOOT	STA	STATION
:OL	COLUMN	KSI	KIPS PER SQUARE INCH	STD	STANDARD
ONC	CONCRETE	LG	LENGTH	STL	STEEL
ONC	CONNECTION	LB	POUND	STRUC	STRUCTURAL
CONST	CONSTRUCTION	LL	LIVE LOAD	SW	SIDEWALK
CONST	CONTINUOUS, CONTINUE	LLH	LONG LEG HORIZONTAL	SY	SQUARE YARD
ORR	CORRUGATED	LLV		SYM	SYMMETRY, SYMMETRICAL
EG	DEGREE	LONG	LONG LEG VERTICAL LONGITUDINAL	T&B	TOP AND BOTTOM
					TECHNICAL
)TL	DETAIL	LW LWC	LIGHTWEIGHT LIGHTWEIGHT CONCRETE	TECH TEMP	TEMPERATURE
IAG	DIAGONAL	MAT'L		THK	
IA,ø	DIAMETER	MAX	MATERIAL MAXIMUM	T&G	THICK(NESS) TONGUE AND GROOVE
IM L	DIMENSION DEAD LOAD	MBR	MEMBER	T.O.	TOP OF
)WG	DRAWING	MECH		TOC	
	E ACH		MECHANIC(AL)	TOF	TOP OF CONCRETE TOP OF FOOTING
A F		MET	METAL	-	
r IFS	EACH FACE	MFR MIN	MANUFACTURE(R, ING) MINIMUM	TOL TOS	TOLERANCE TOP OF STEEL
	EXTERIOR INSULATION FINISH SYSTEM ELECTRIC(AL)	MISC	MISCELL ANEOUS	TOW	TOP OF WALL
LEC		MISC MK			
L NCB	ELEVATION		MARK	TRANS TYP	TRANSVERSE
NGR	ENGINEER	NIC #	NOT IN CONTRACT		TYPICAL
Q OLUD	EQUAL	NO, #	NUMBER	UNO	UNLESS NOTED OTHERWISE
QUIP	EQUIPMENT	NOM	NOMINAL	VR	VAPOR RETARDER
W	EACH WAY	NS	NEAR SIDE	VERT	VERTICAL
XIST	EXISTING	NTS	NOT TO SCALE	VOL	VOLUME
XP	EXPANSION	00	ON CENTER	W/	WITH
ΧT	EXTERIOR	OCEW	ON CENTER EACH WAY	W/O	WITHOUT
D	FLOOR DRAIN	OD	OUTSIDE DIAMETER	WL	WIND LOAD
DN	FOUNDATION	OE	OR EQUAL	WP	WORK POINT
F	FINISHED FLOOR	OPNG	OPENING	WSCT	WAINSCOT
G	FINISHED GRADE	OPP	OPPOSITE	WT	WEIGHT
IN	FINISH(ED)	OPT	OPTIONAL	WWF	WELDED WIRE FABRIC
LEX	FLEXIBLE	PAR	PARALLEL	YD	YARD
LR	FLOOR(ING)	PC	PRECAST CONCRETE		SECTION OR DETAIL REFERENCE
		PCC	PORTLAND CEMENT CONCRETE	EDITOR'S NO STRUCT QA	DTE: AND ABBREVIATIONS. EDITED DEC 14,

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