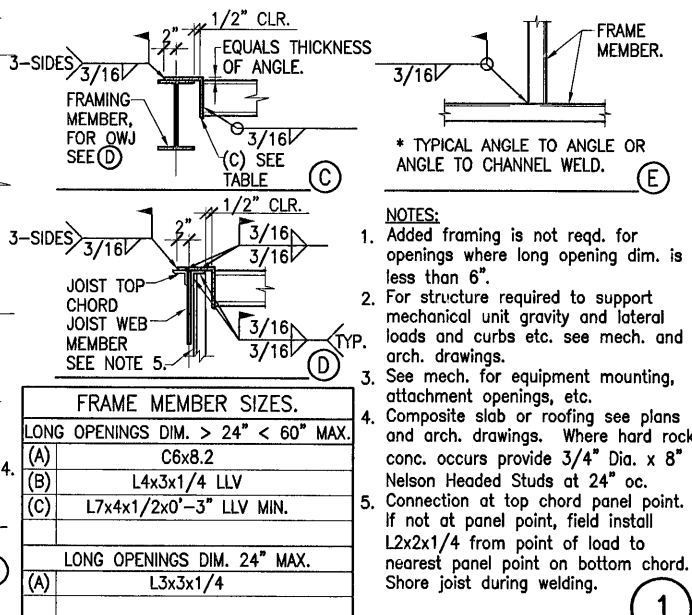
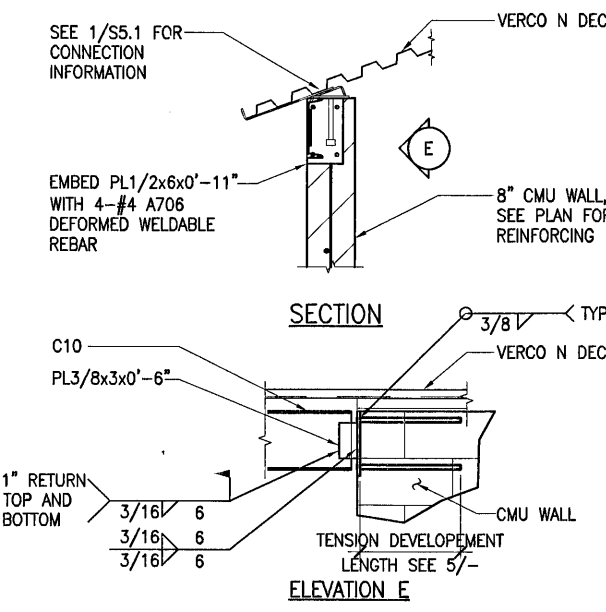
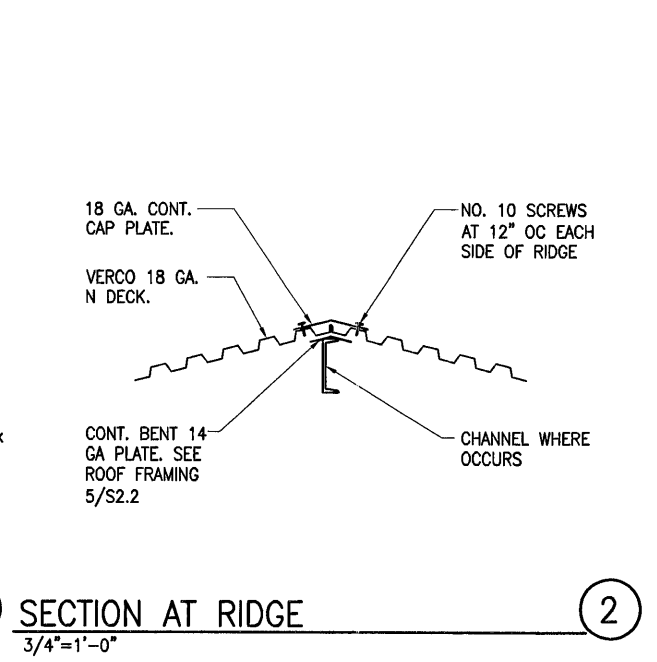


TYPICAL OPENING IN STEEL DECK
NO SCALE



SECTION AT RIDGE
3/4" = 1'-0"

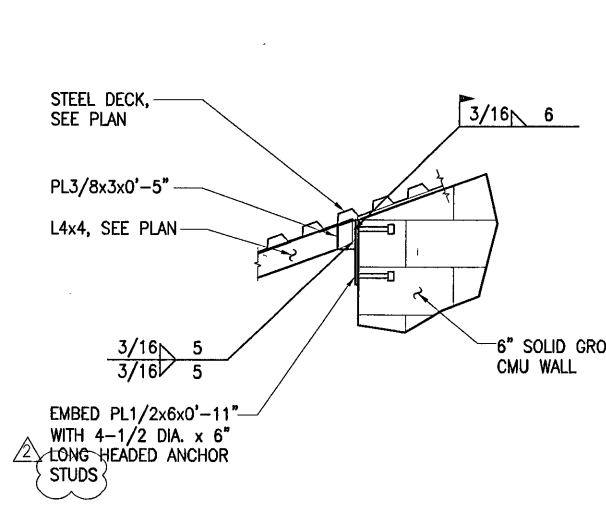


BEAM SECTION AND ELEVATION
3/4" = 1'-0"

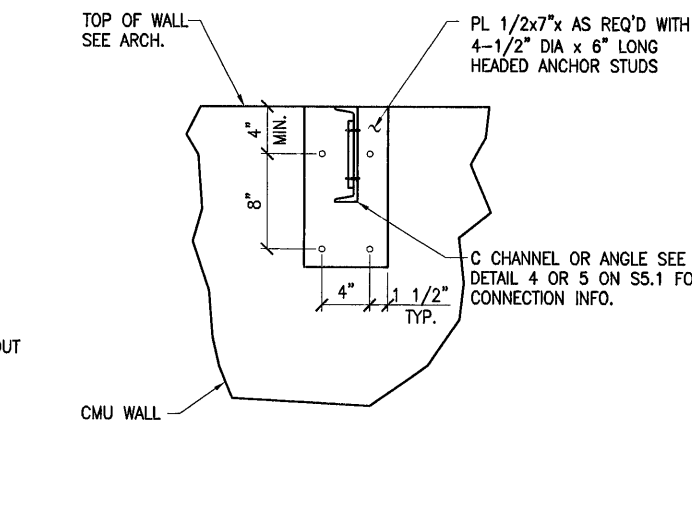
Tension Development and Lap Splice Length (for Masonry only)

CMU Thickness	Masonry Design Strength	f'm = 1500 psi		f'm = 2000 psi		f'm = 2500 psi		f'm = 3000 psi		f'm = 3500 psi		f'm = 4000 psi	
		Center	Edge	Center	Edge	Center	Edge	Center	Edge	Center	Edge	Center	Edge
6"	#3	19	19	17	17	15	15	15	15	15	15	15	15
	#4	26	30	22	26	20	23	18	21	17	20	16	19
	#5	40	48	35	42	31	37	28	34	26	32	25	30
	#6	82	100	71	86	63	77	58	71	54	65	50	61
	#7	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
8"	#3	19	19	17	17	15	15	15	15	15	15	15	15
	#4	26	30	22	26	20	23	18	21	17	20	16	19
	#5	32	48	28	42	25	37	23	34	21	32	20	30
	#6	58	100	50	86	45	77	41	71	38	65	36	61
	#7	80	124	70	107	62	96	57	88	53	81	49	76
8"	#8	114	152	99	131	89	117	81	107	75	99	70	93
	#9	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

TENSION DEVELOPMENT AND LAP SPLICE LENGTH (FOR MASONRY ONLY)
NO SCALE



END OF WALL AT ROOF
3/4" = 1'-0"



TOP OF WALL CONNECTION
1 1/2" = 1'-0"

Structural Steel, Steel Deck

- STRUCTURAL STEEL**
 - A) Designing, detailing, fabrication, and erection of structural steel shall be in accordance with the American Institute of Steel Construction (latest edition and supplements).
 - B) Structural steel shall comply to ASTM Standard A992. Angles, plates and bars shall comply to ASTM Standard A36, unless noted otherwise.
 - C) The structural steel fabricator shall furnish shop drawings of all structural steel for Architect's review before fabrication.
 - D) Structural steel not exposed to weather shall be left unpainted unless noted otherwise in the architectural drawings and/or specifications.
- STRUCTURAL STEEL WELDING**
 - A) All welding shall comply to the American Welding Society Standard (AWS D1.1). All welded joints shall be detailed as indicated by the prequalified joint details in the Structural Welding Code.
 - B) Weld lengths called for on plans are the net effective length required. Weld size shall be AISC minimum unless a larger size is noted. All welds shall use minimum E70XX electrodes.
 - C) Welding tests and inspections, see specifications.
- STRUCTURAL STEEL BOLTING**
 - A) Bolts shall conform to ASTM A325-N, except anchor bolts which shall conform to ASTM A307, GRADE 'A', unless noted otherwise.
 - B) Bolt holes in steel shall be 1/16 inch larger than nominal size of bolt used, except anchor bolt holes.
 - C) Except as subsequently noted, high strength bolts need not be tightened beyond the snug-tight condition, as defined in section 8.(c) of the specifications for structural joints using ASTM A325 or A490 Bolts. For connections subject to direct tension, connections for braced frames, and other connections shown or noted on the plans as SC (slip critical) or fully tensioned, bolts shall be tightened by one of the methods described in section 8.(d) and to the minimum tension specified in section 8.(d), Table 4.
- STEEL DECK**
 - A) The steel deck shall be of the type and gauge as called for on drawings. Deck and all accessories shall be formed from steel sheets conforming to ASTM Standards as shown below. Galvanized deck shall be zinc coated per ASTM A653-G60. All roof deck shall be galvanized.

Galvanized Deck	ASTM A653(SQ) Grade 33
Galvanized Corrugated Deck	ASTM A653(SQ) Grade 80
Painted Deck	ASTM A611 Grade C
 - B) Minimum bearing of steel deck on supports shall be 2 inches. All 3" deep steel deck shall have minimum bearing of 3". Sheets shall be attached to all supporting steel members by welding as indicated on drawings and in accordance with manufacturer's recommendations. Upon completion of erection, all welds on steel deck areas exposed to weather shall be de-slugged, cleaned and touched-up with a zinc rich primer.
 - C) See architectural, mechanical, electrical, etc., for sizes and locations of deck openings and for deck openings smaller than 12" not shown on the structural drawings. See typical details for framing requirements at deck openings. Openings larger than 12" shall not be placed in deck unless specifically shown on the structural drawings.
- ANCHOR STUDS, SHEAR STUDS, AND DEFORMED ANCHORS.**
 - A) Shall be manufactured by Nelson Stud Welding Co. or equal.
 - B) Headed studs (shear and anchor) shall be made of material conforming to ASTM A108.
 - C) Deformed anchors shall be made of material conforming to ASTM A496.
 - D) Studs and anchors shall be welded according to manufacturer's recommendations. Manual arc (stick) welding of headed studs and/or deformed anchors is not allowed: Paragraphs 7.5.5.6 and 7.5.5.6 of AWS D1.1, are deleted.



Revision 2 10/01/07

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DEPARTMENT OF PUBLIC WORKS

Lorenzi Park Renovation
Phase 1
Restroom/Concession/Storage Building
METAL DECK TYPICAL
DETAILS AND NOTES



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

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DRAWN: JF/IE
FILE: RCS-S4.4
DATE: June 2007
SCALE: AS SHOWN
REV: 07.15341.01
CLDWG NO: 650.13-47

RECEIVED
OCT 12 2007
CITY OF LAS VEGAS
BUILDINGS DEPT.

REVISION 2 OWNERS COMMENT OCTOBER 01, 2007

RCS-S4.4

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