

26-5-109

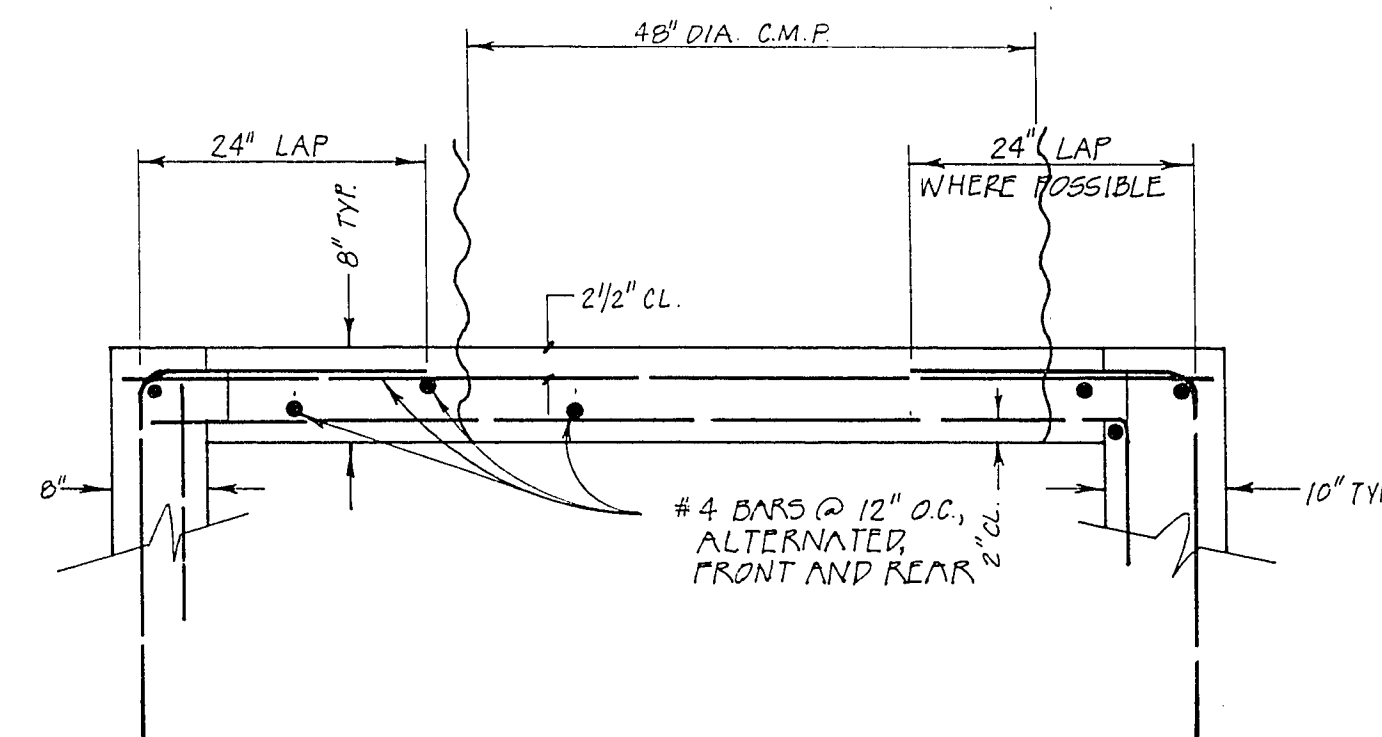
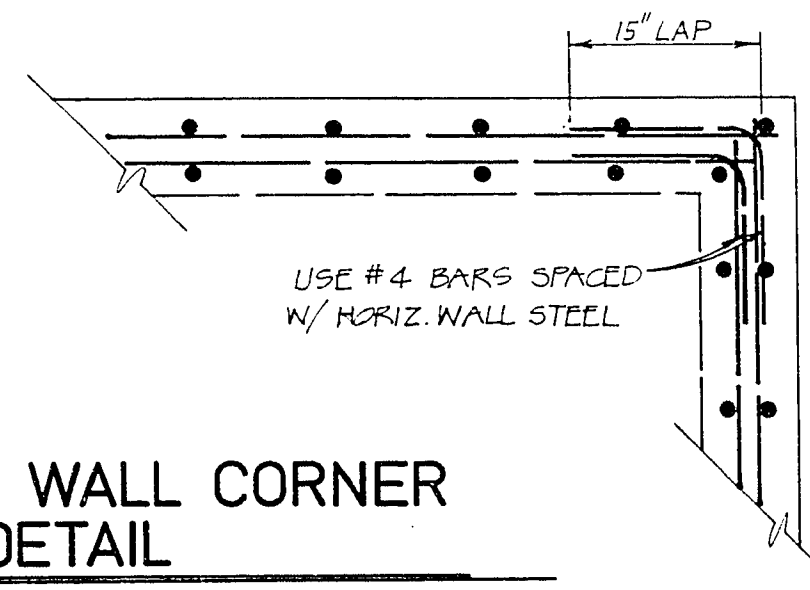
GENERAL NOTES

- CONSTRUCTION SPECIFICATIONS: EXCEPT AS INDICATED BELOW, ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF LAS VEGAS STANDARD SPECIFICATIONS, LATEST EDITION, AND STATE OF NEVADA DEPARTMENT OF HIGHWAYS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". CURRENT EDITION AND SPECIAL PROVISIONS THEREOF.
- CONCRETE: THE CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3250 PSI. MAXIMUM ALLOWABLE SHEAR, $V_c = 3.5 \text{ f'c}$, PSI, TAKEN AT A DISTANCE "d" FROM THE SUPPORTING MEMBER.
- REINFORCING STEEL: ALL REINFORCING STEEL TO BE ASTM A615 GRADE 60. MAIN REINFORCEMENT IS TO BE PLACED IN THE TRANSVERSE DIRECTION. STAGGER SPLICES NOT SHOWN. PLACEMENT OF ALL REINFORCEMENT SHALL CONFORM TO ACI 318-83 REQUIREMENTS FOR REINFORCED CONCRETE. REINFORCEMENT SHALL HAVE A 2 1/2 INCH CLEARANCE ON BOTTOM OF BOTTOM SLAB AND 2 INCH CLEARANCE ON REMAINDER OF STRUCTURE AND ITS APPURTENANCES UNLESS OTHERWISE NOTED ON THE PLANS.
- FREEFORM CONCRETE SHALL BE OF A "STIFF" MIX WITH A MAXIMUM SLUMP OF 2 INCHES.

QUANTITIES FOR TRANSITION BOX

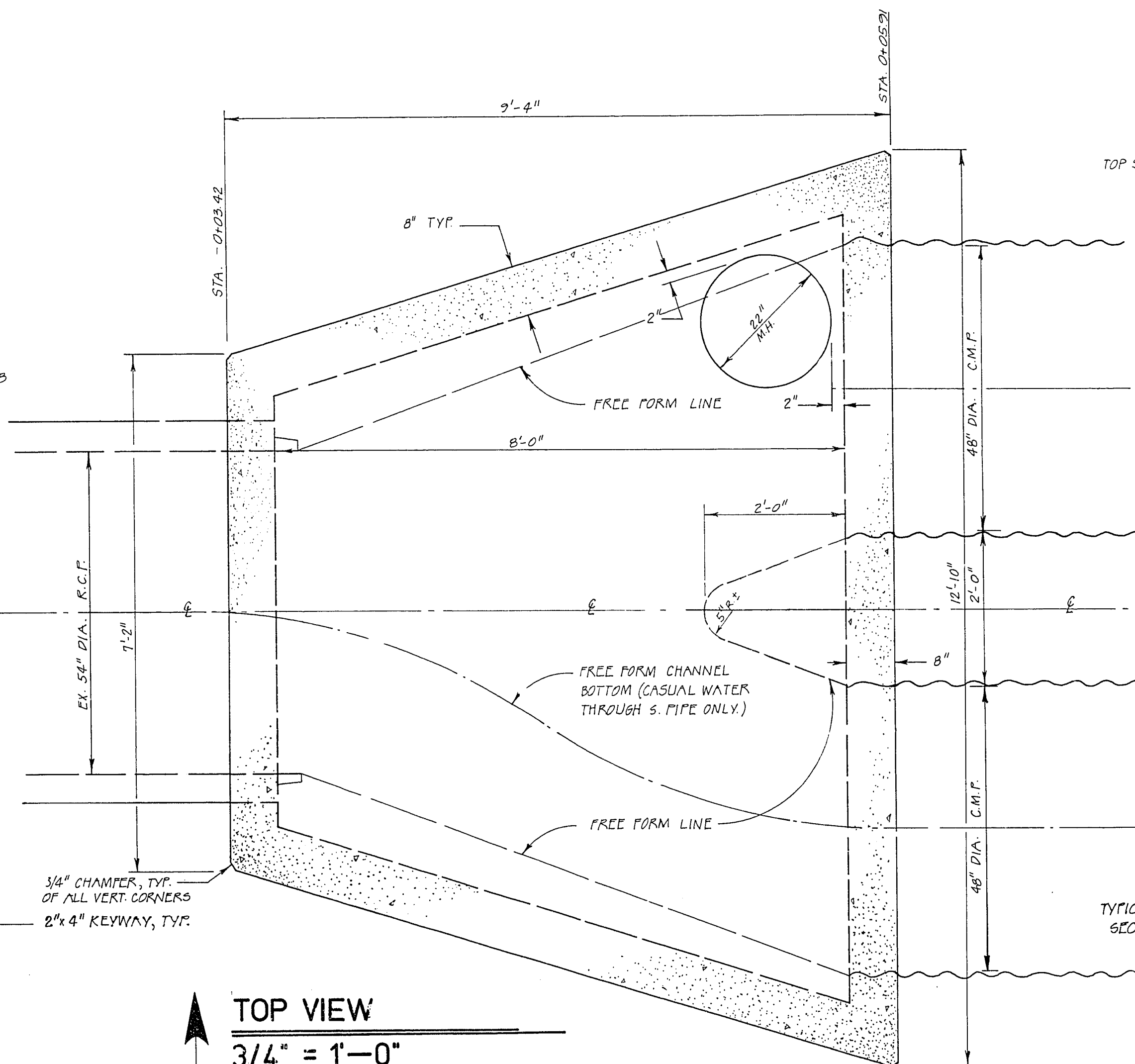
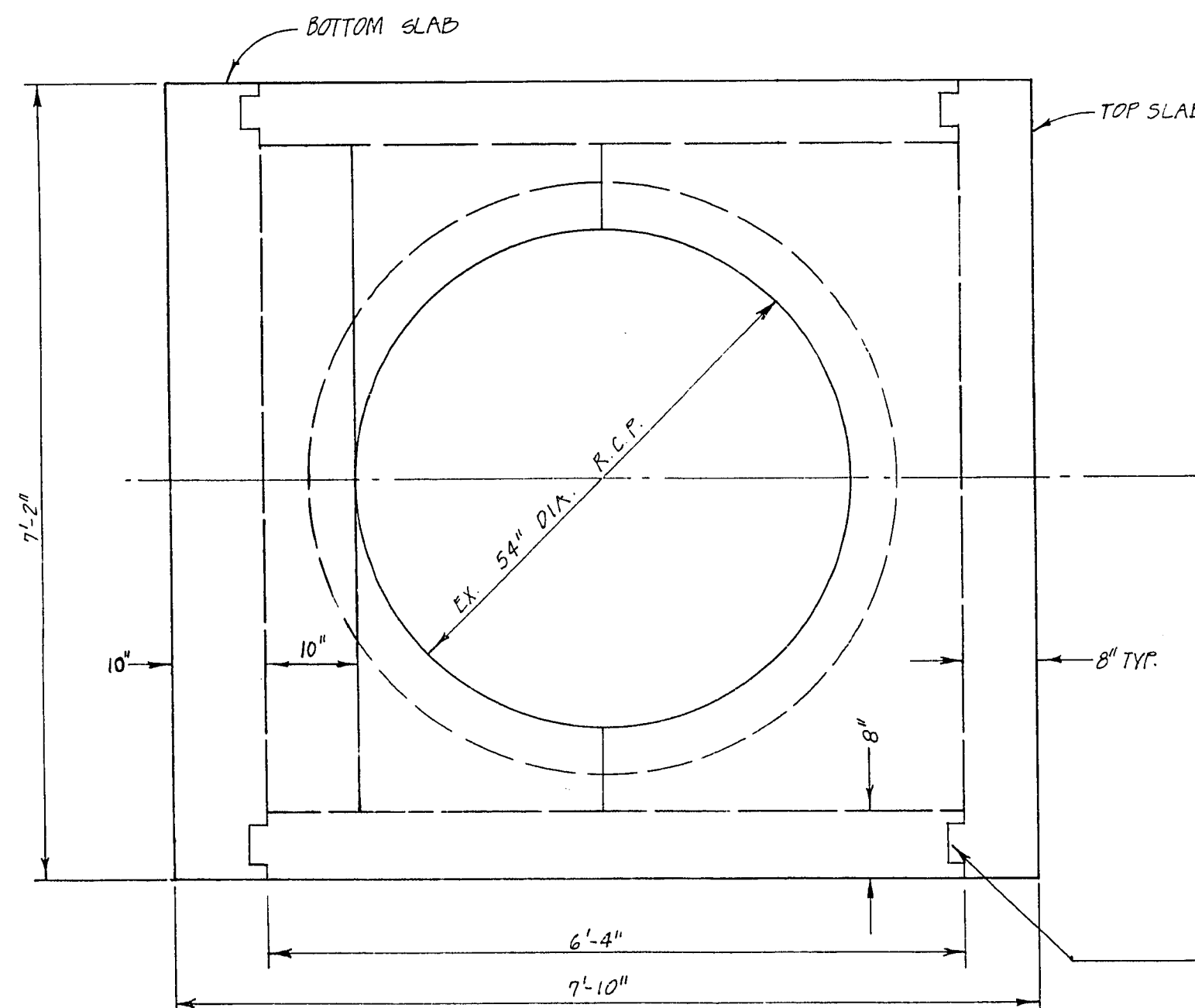
Structural Concrete	10 cy
Freeform Concrete	2 1/2 cy
Reinforcing Steel	2270 Lb
Manhole cover & frame	1 ea
Manhole Steps	4 ea
Type III Gravel	3 cy

TYPICAL WALL CORNER
STEEL DETAIL
3/4" = 1'-0"

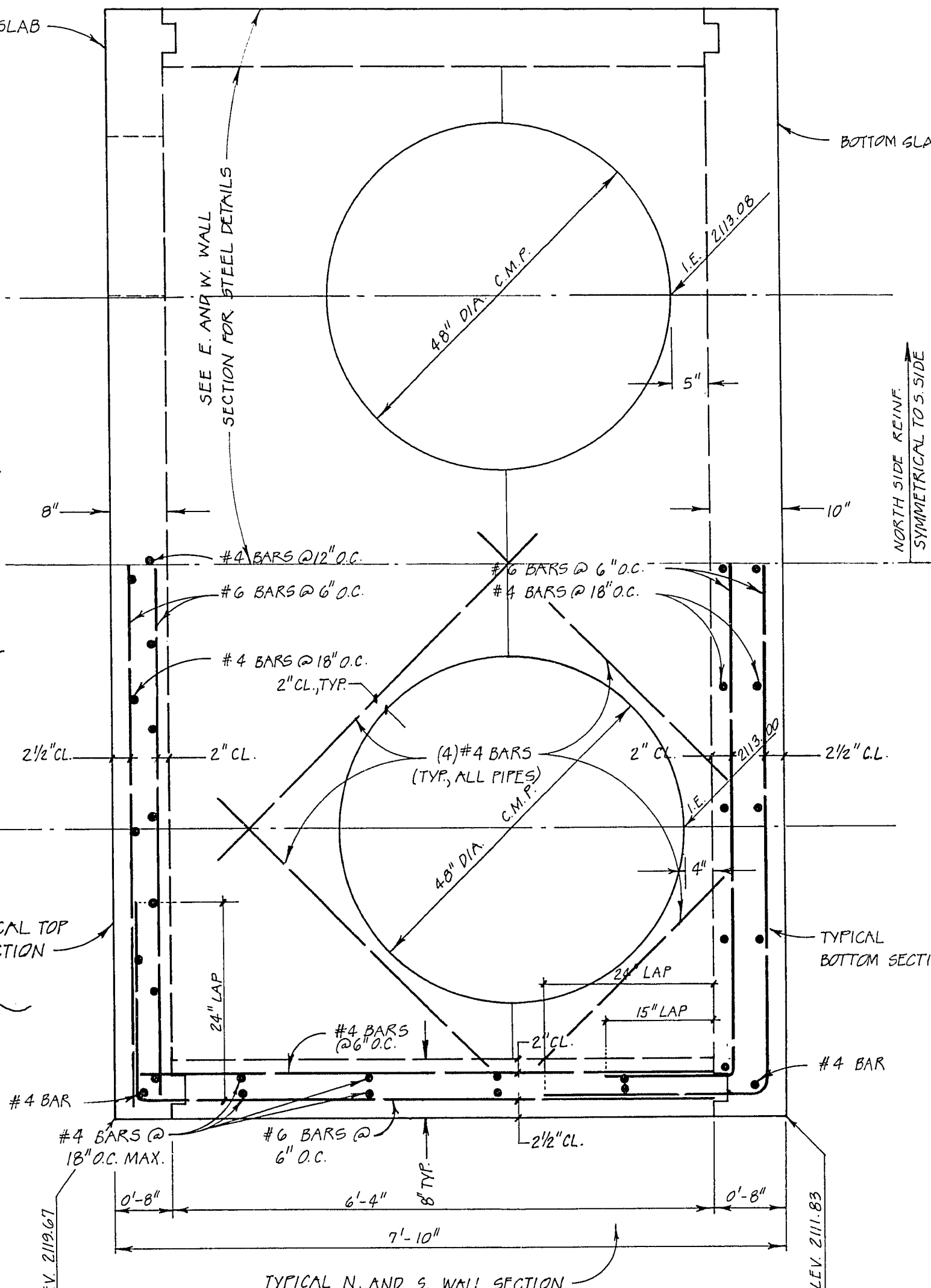


E. & W. WALL SECTION
3/4" = 1'-0"

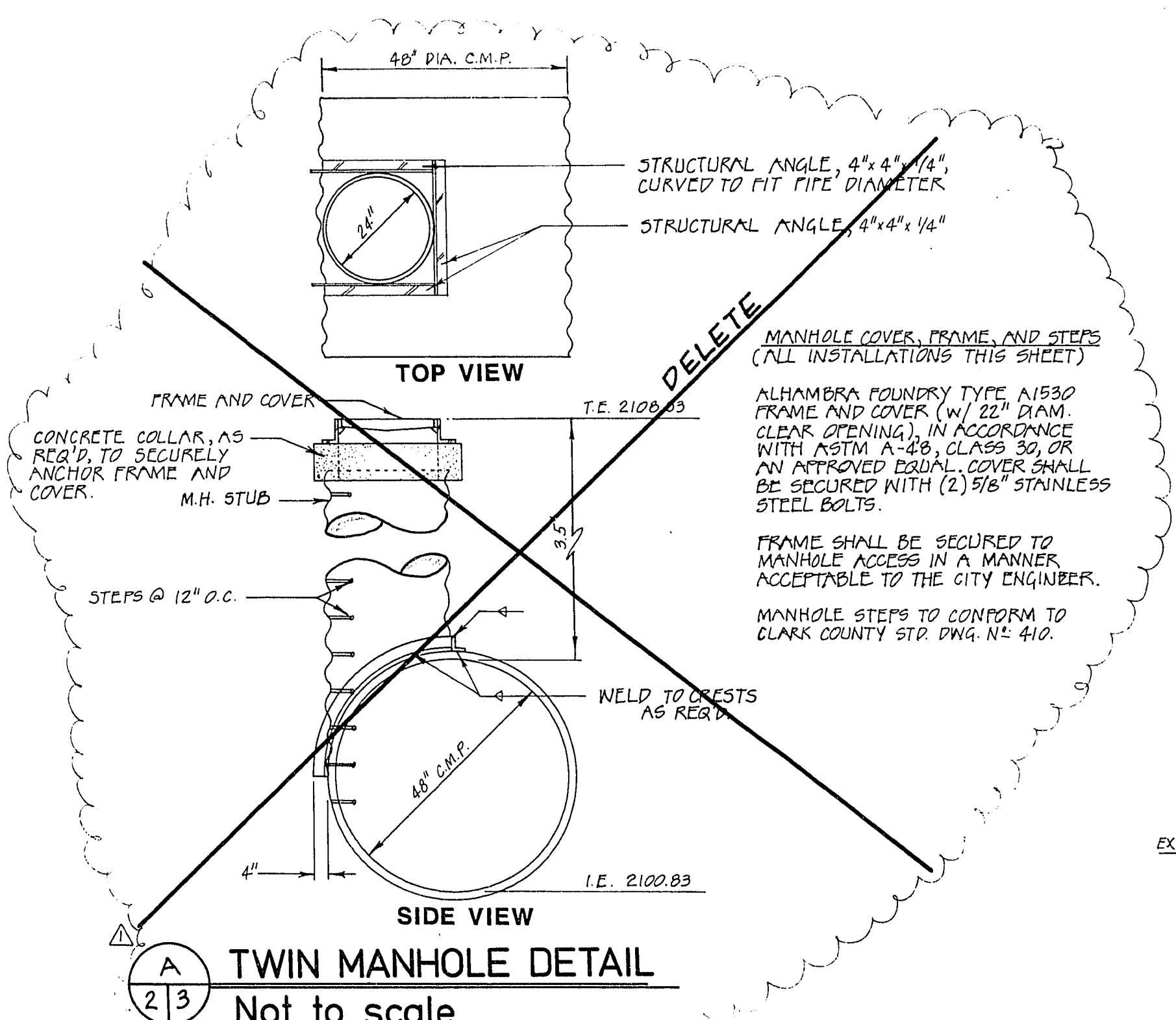
WEST END ELEVATION
3/4" = 1'-0"



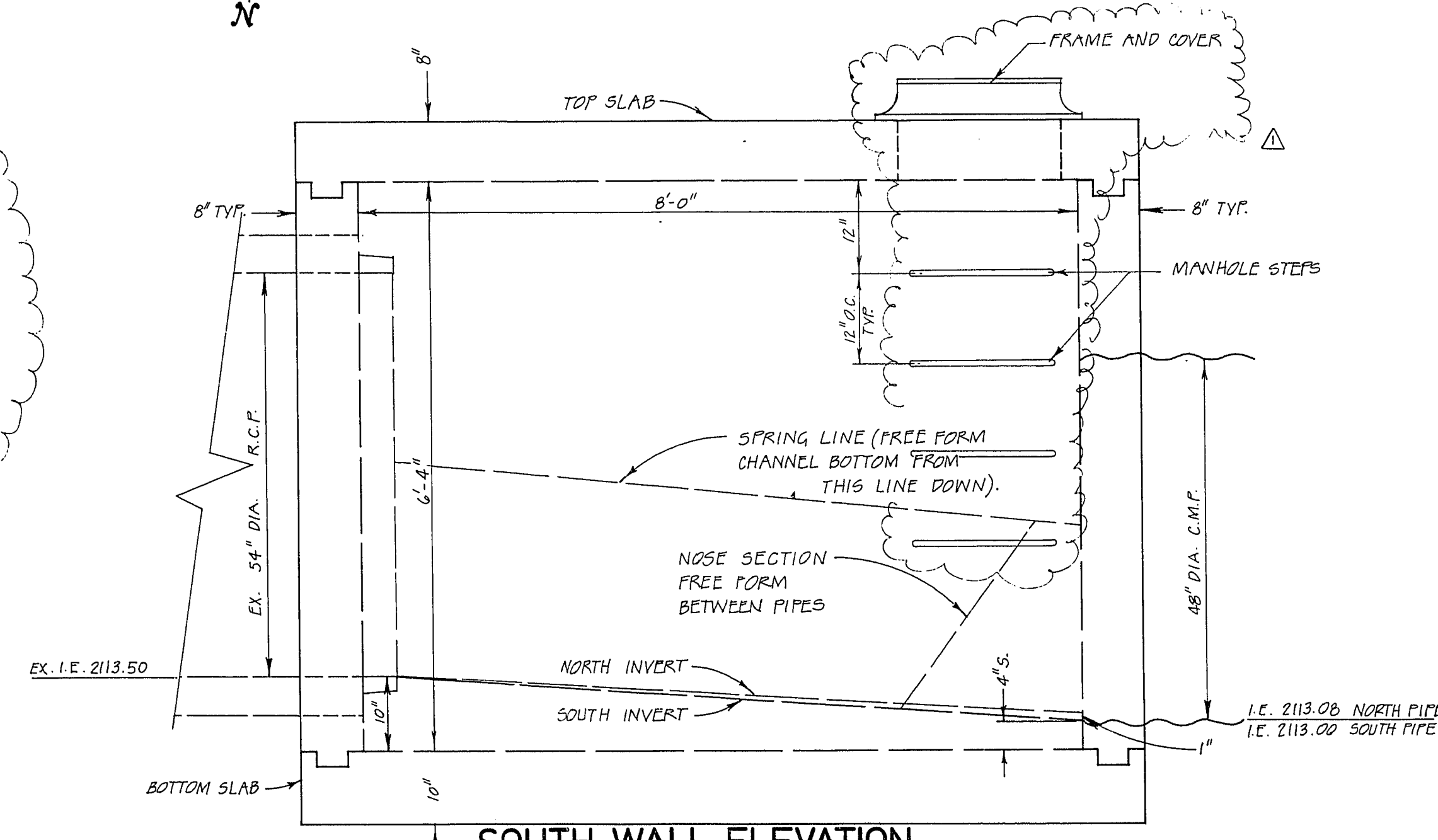
TOP VIEW
3/4" = 1'-0"



EAST END ELEVATION
3/4" = 1'-0"



TWIN MANHOLE DETAIL
Not to scale



SOUTH WALL ELEVATION
(North Wall Typical) 3/4" = 1'-0"

Riprap Specifications

Concrete shall be 2500 psi 28 day strength, Type V cement, 3/4" max. aggregate size and 6" slump max.

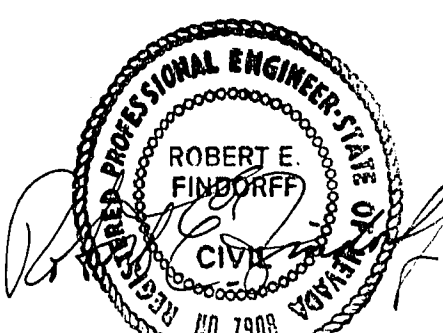
Stone for Riprap

Stone for riprap shall be clean, sound, tough, durable rock, free from structural defects. Sound pieces of broken concrete may be used in place of stone when approved by the Engineer. Broken concrete with projecting reinforcement shall not be used. Individual stones and pieces of broken concrete shall measure at least 12" in one dimension and shall have a volume of not less than 1/2 cubic foot, except that smaller pieces may be used for filling spaces between the riprap stone. Stone shall be wetted prior to concrete placement.

Note: Type II aggregate or sand shall be used for backfill around the twin 48" Ø C.M.P. in a 12" thickness and to a point 12" above the top of pipe.

48" Ø C.M.P. shall be designed and supplied to a H-20 loading condition. Construction equipment shall be used with caution around and over pipe during and after construction to prevent overload conditions.

Excavation for the transition structure shall allow an 8" compacted layer of Type II aggregate under the structure and compacted to 95% optimum density.



Job No.	7068.111	Sheet No.	3 OF 3
Drawn by	FMZ	Checked by	REF
Date	5/12/89	Date	5-11-89
REVISIONS	NO.	DATE	DESCRIPTION
1	5/12/89	FMZ	ADD TWIN MANHOLE DETAIL, NIS.
TRANSITION STRUCTURE DETAILS			
RENE BLANCHARD RANCHO RD. ASSOCIATES II MIKE STOKELY			
Church Engineering, Inc. 2911 Woods Ave. Las Vegas, NV 89102 (702) 735-0629			