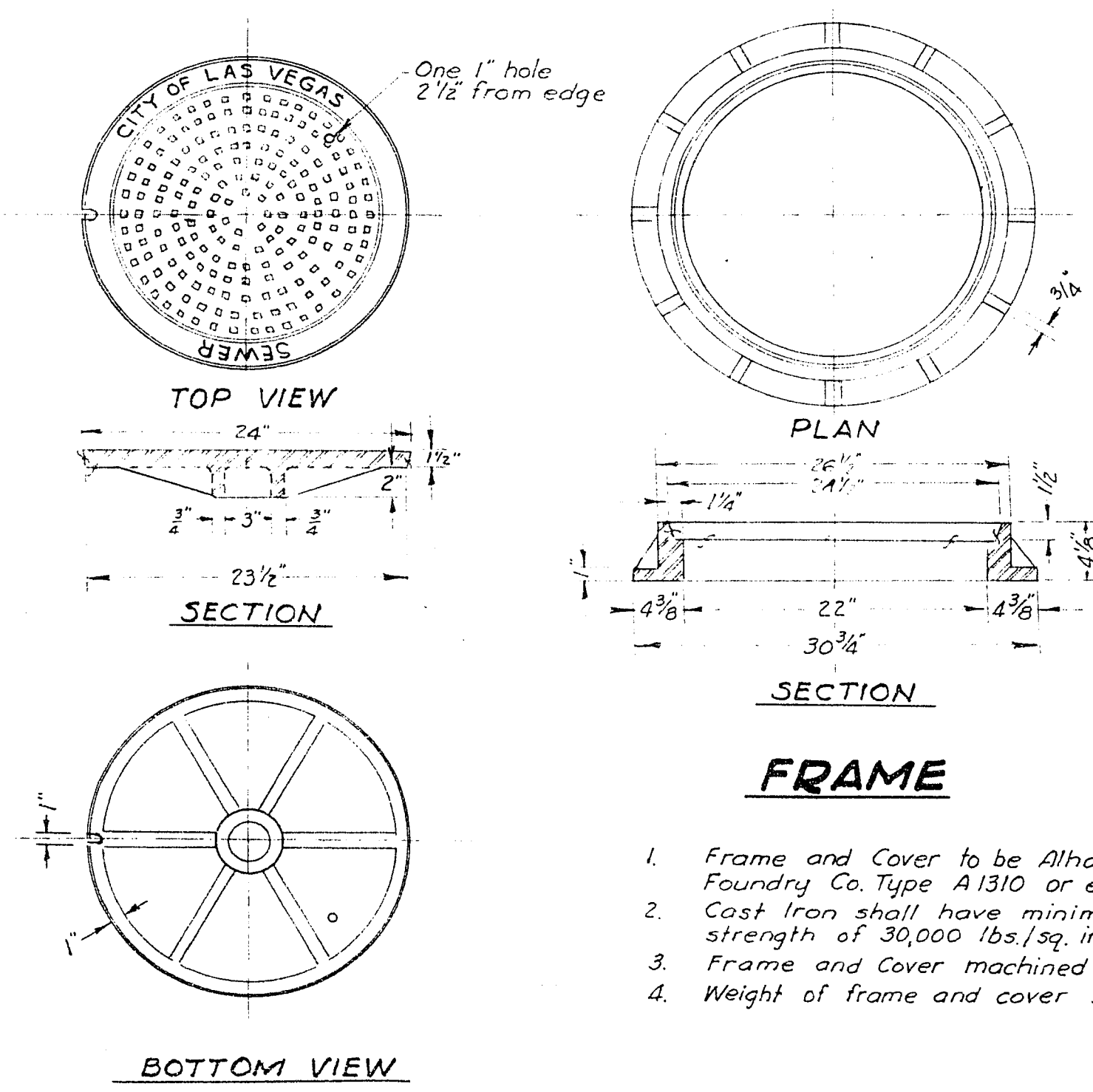


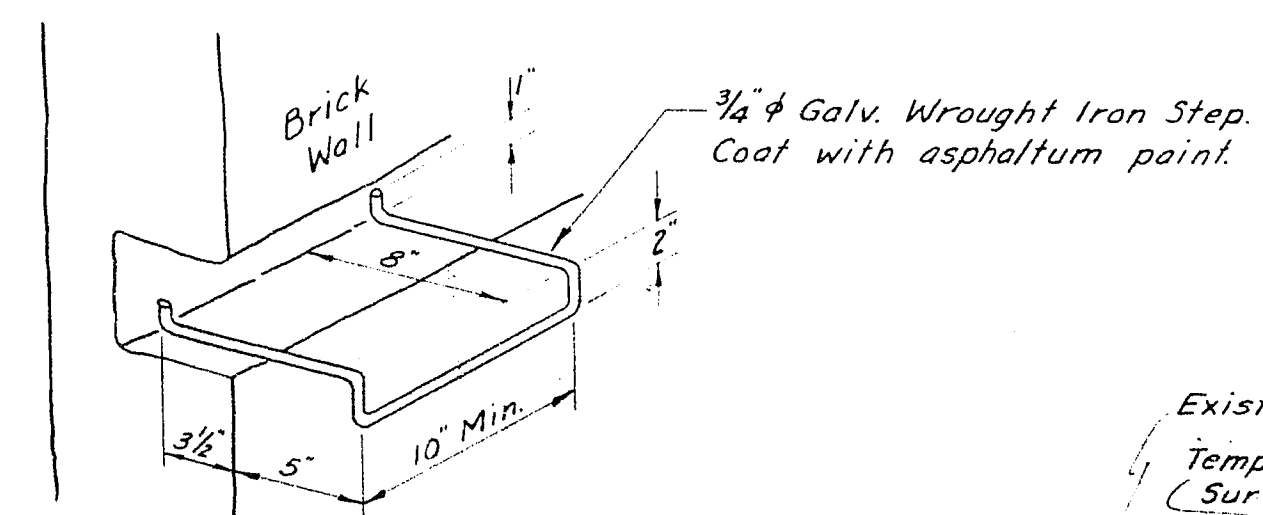


COVER

MANHOLE FRAME AND COVER

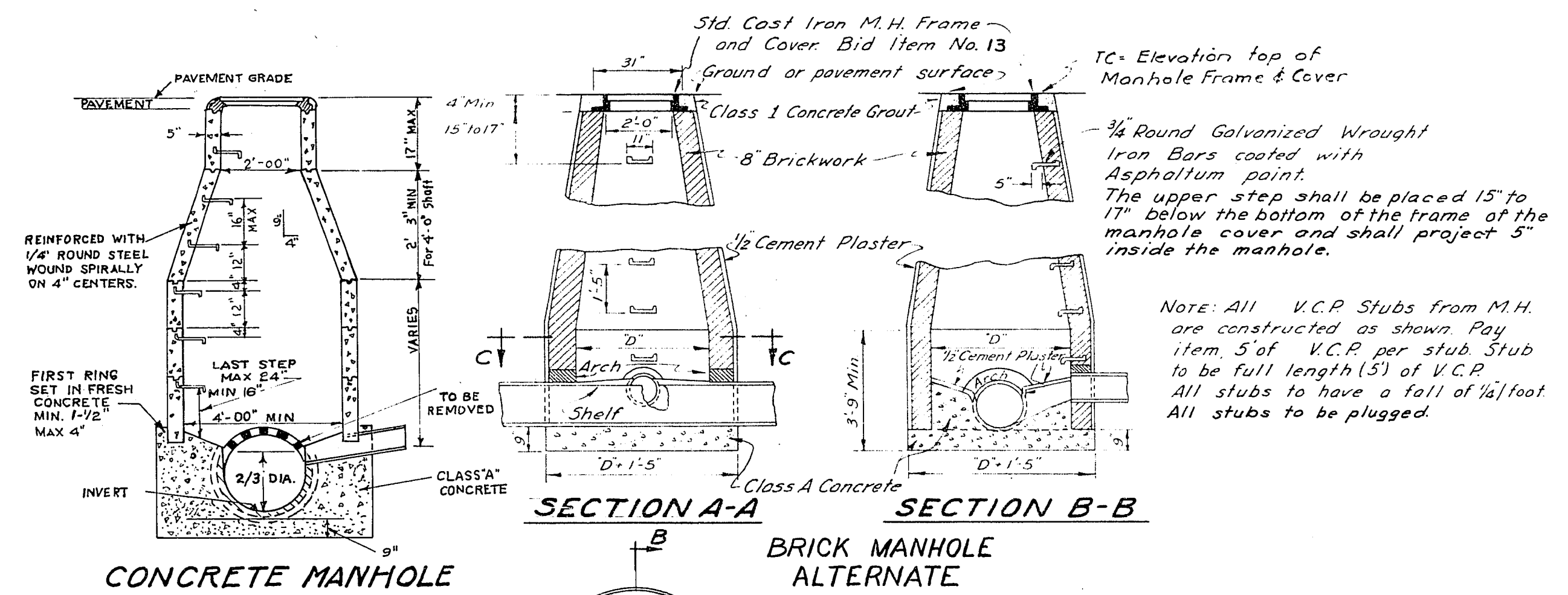
NO SCALE
Bid Item No. 13

1. Frame and Cover to be Alhambra Foundry Co. Type A1310 or equal.
2. Cast Iron shall have minimum tensile strength of 30,000 lbs./sq. in.
3. Frame and Cover machined to fit.
4. Weight of frame and cover 390 lbs. approx.



DETAIL OF WROUGHT IRON MANHOLE STEP

NO SCALE
Pay for Manhole Steps to be included in Bid Item No. 13



CONCRETE MANHOLE

MANHOLE DETAIL

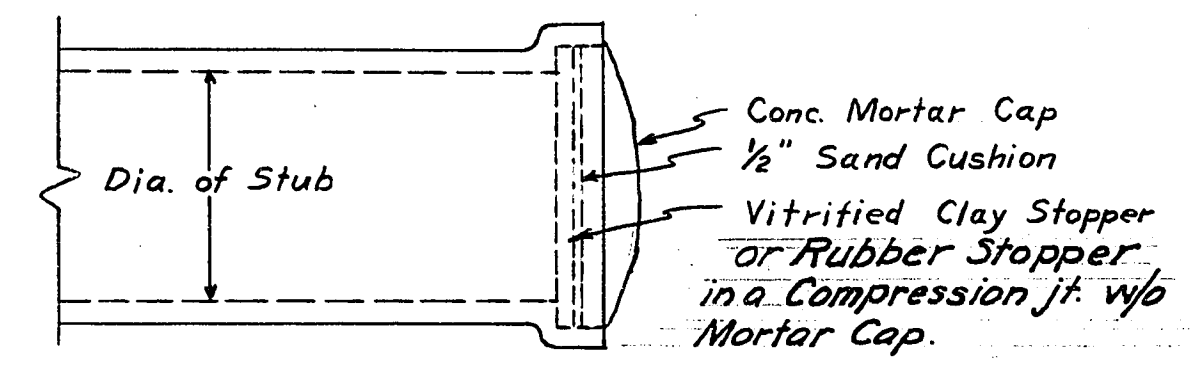
NO SCALE

Bid Item Nos.	10- For 4'-0" Precast Conc. M.H.
11- "	5'-0" " "
12- "	5'-0" " "
10A- For 4'-0" Brick M.H.	
11A- "	4'-6" " "
12A- "	5'-0" " "

DROP MANHOLE

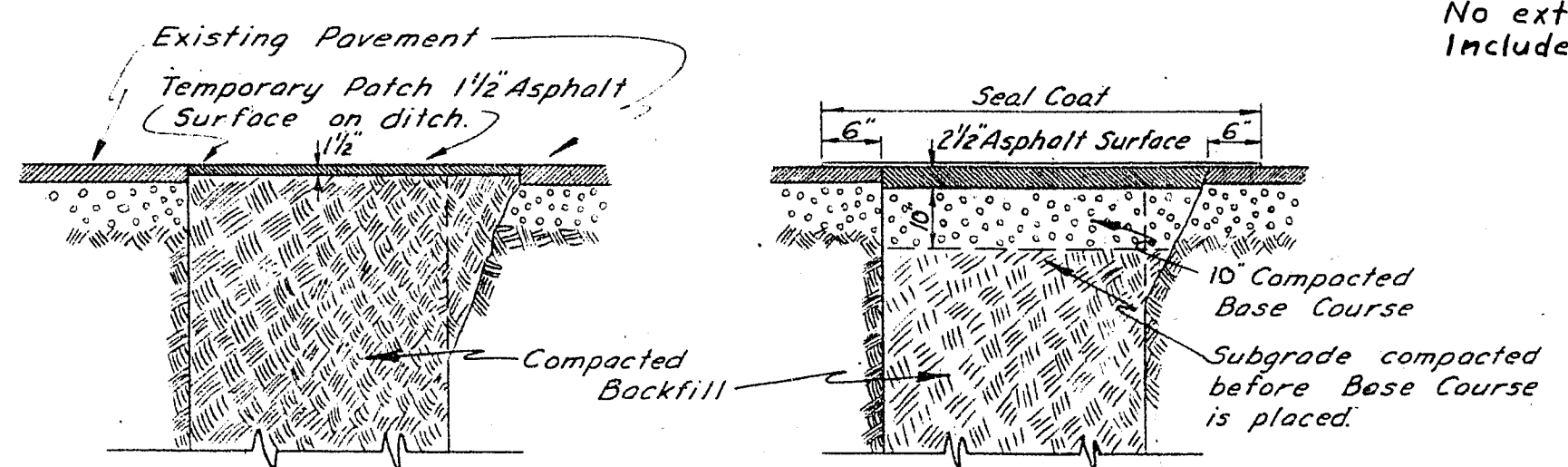
No extra pay item for drop manholes to be included in unit bid price of vertical feet of manhole.

1. For sewers 15" or more in dia pour 8" concrete arch over pipe.
2. For sewers 12" or less in dia pour 4" concrete arch over pipe.
3. The lowest manhole step shall be spaced not less than 16" nor more than 24" above the shelf.
4. For sewers 15" or less in dia the depth of the channel in the base shall be 1/3 of the I.D. of the pipe.
5. Vitritified clay pipe can be laid thru the manhole and the top section of pipe broken out and the mortar coating of the shelf used to smooth up the ragged edges of the pipe.
6. For sewers 18" or more in diameter the depth of the channel in the base shall be equal to the I.D. of the pipe.



DETAIL FOR PLUGGING END OF STUB

No extra pay item for plugs to be included in unit bid price of pipe.



Temporary Patch

Temporary Patch as soon as backfill is completed. From 14 to 21 days, temporary patch is removed and final asphalt patch is constructed.

Pavement Replacement Type II

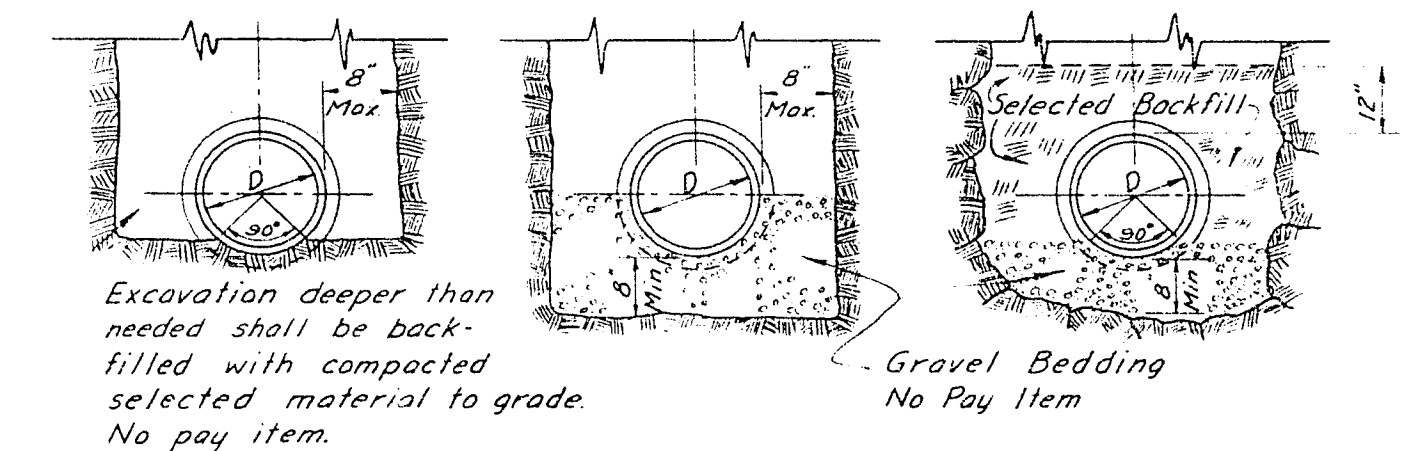
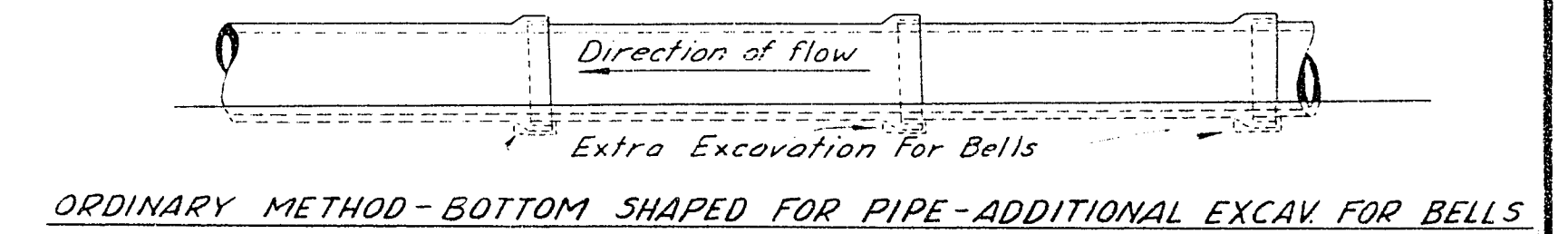
Bid Item No. 14

Pavement Replacement Type III

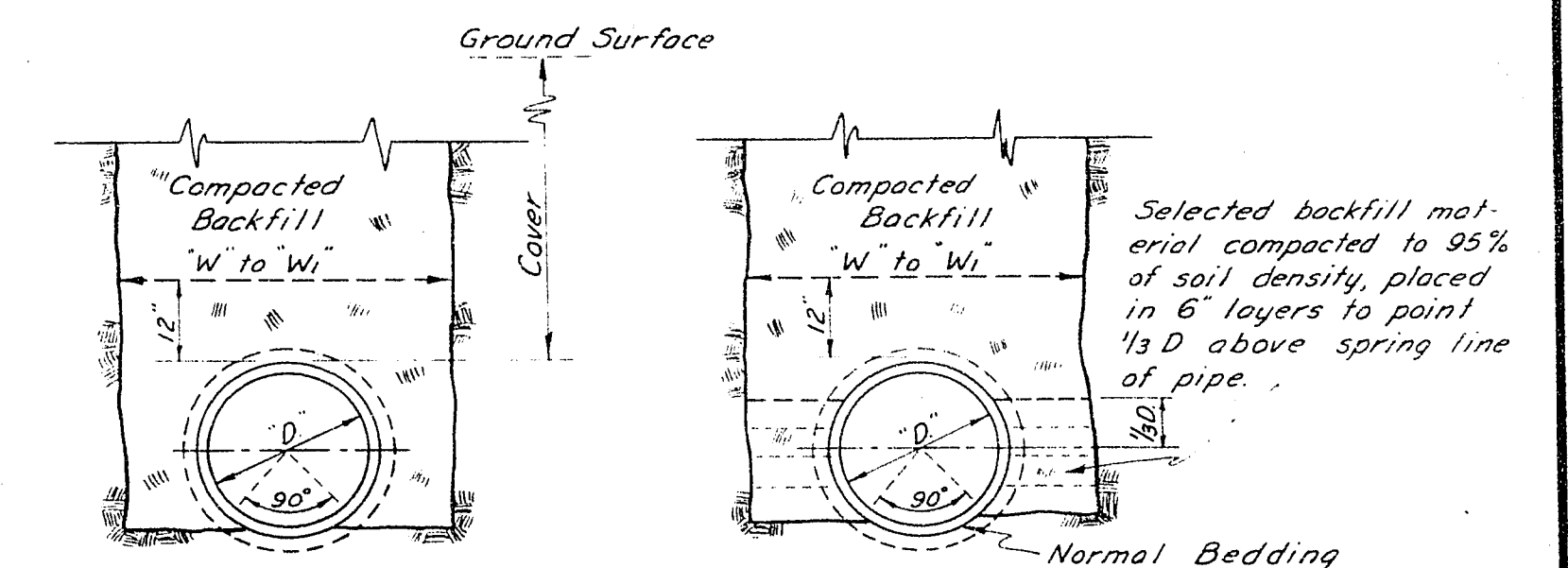
Bid Item No. 15

PAVEMENT REPLACEMENT DETAILS

NO SCALE



PIPE LAYING



PIPE BEDDING

TRENCH WIDTHS

Pipe Size, Inches	Max. Trench Width, Inches, "W"	Min. Trench Width, Inches, "W1"
8"	26"	24"
10"	28"	26"
12"	30"	28"
15"	34"	31"
18"	38"	35"
21"	42"	38"
24"	47"	42"
27"	53"	45"
30"	58"	48"

AS-BUILT

JOHN A. CAROLLO CONSULTING ENGINEERS PHOENIX, ARIZONA		CHARLES A. ROLLINS ROBERT M. CUSHING H. HARVEY HUNT	
LAS VEGAS, NEVADA.			
TONOPAH HIGHWAY INTERCEPTOR SEWER			
DESIGNED G.C.W.	CHECKED G.C.W.	DATE 7-11-62	AS-BUILT MAY 63
DRAWN	TRACED	REVISED 7-1-66	D.M.T.
DRAWING NO.			SHEET
NO. 00			OF 01