

STORM WATER SEWER NO. 422

TO SERVE A PART OF

SUNRIDGE 2ND ADDITION

TO SEDGWICK COUNTY, KANSAS

CITY OF WICHITA, KANSAS

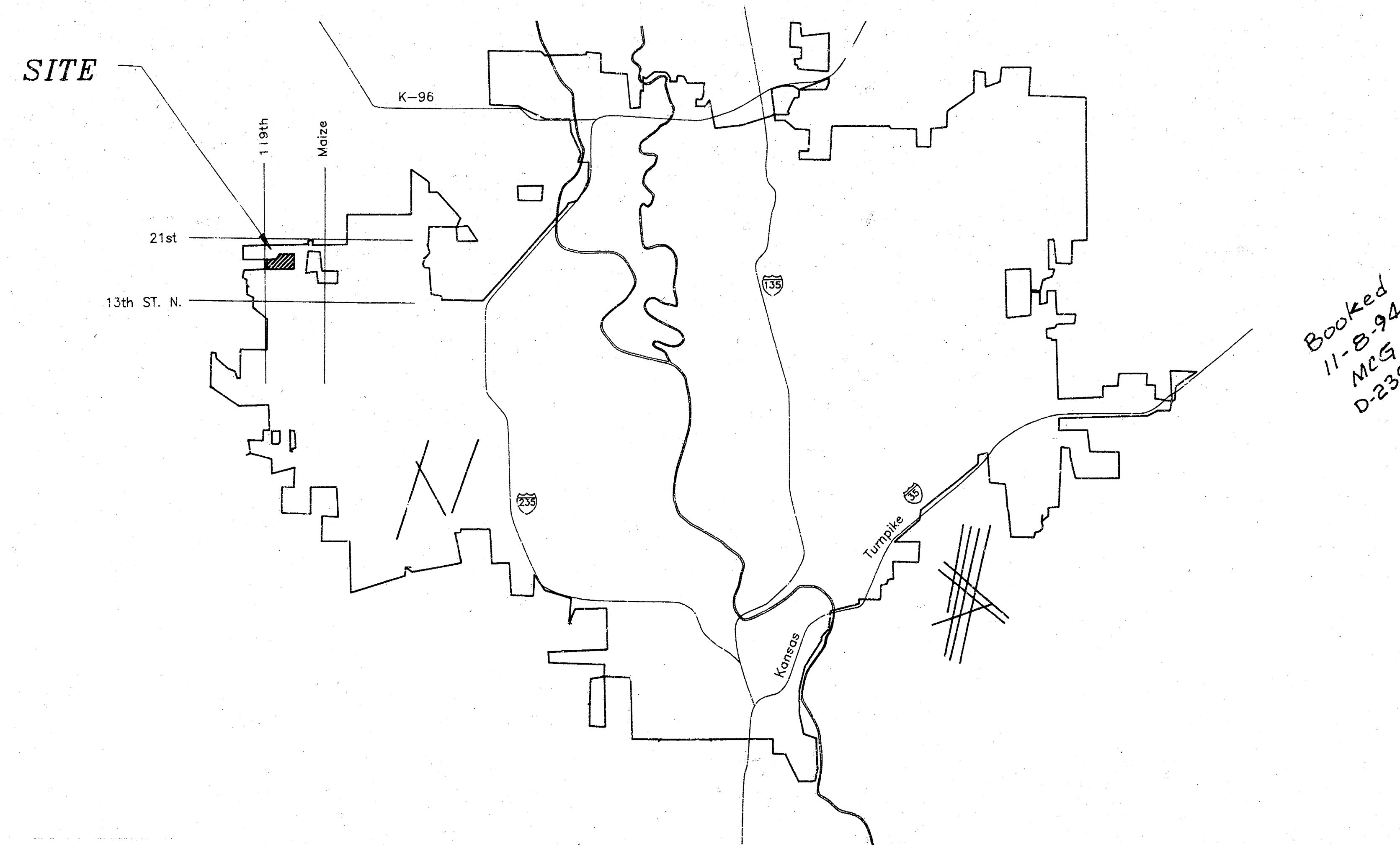
M.E. LINDEBAK

CITY ENGINEER

CITY PROJECT NO. 468-76-245-82159-000-000-001

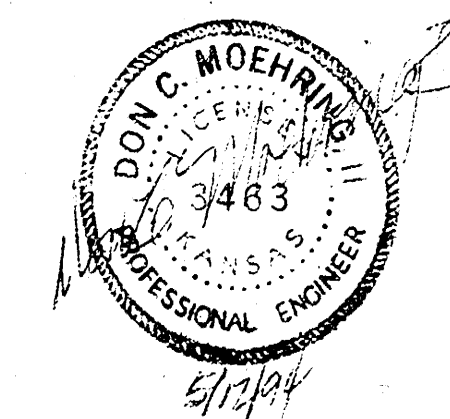
INDEX NO. 750521

April 1994



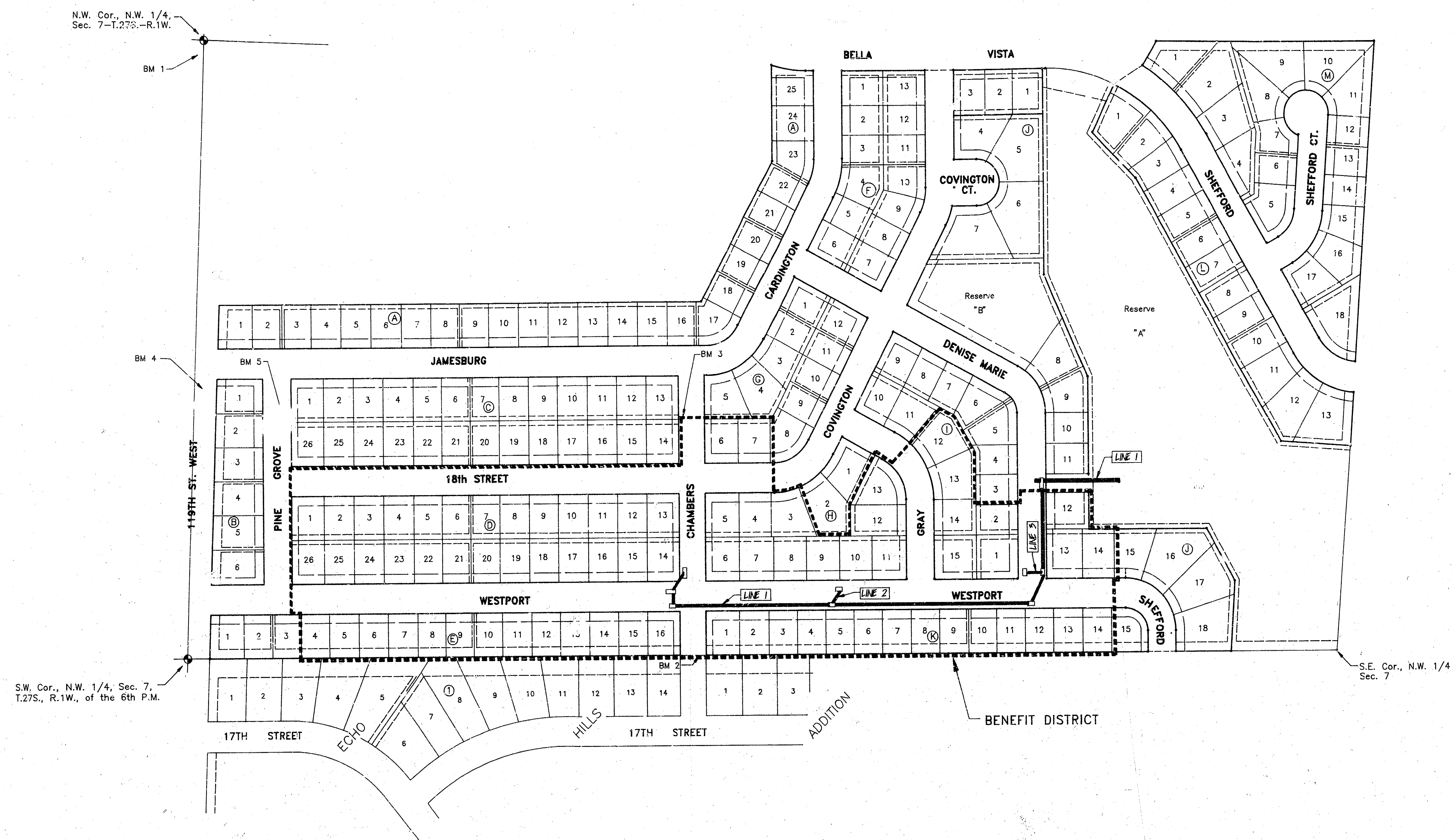
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MOEHRING & ASSOCIATES
CONSULTING ENGINEERS
WICHITA

STORM WATER SEWER KEY MAP



BENCHMARKS

1. City Disc - 79' South and 46' East of NW Cor., NW 1/4, Sec. 7, T.27S., R.1W.
Elev. = 172.08 City Datum
2. Top of Curb, E. Side Chambers, opposite SW Cor., Lot 1, Blk. "K", Sunridge 2nd Addition.
Elev. = 161.19 City Datum
3. Top of Curb, W. Side Chambers, opposite SE Cor., Lot 13, Blk. "C", Sunridge 2nd Addition.
Elev. = 161.18 City Datum
4. R.R. Spike in U.P., approx. 200' South of NW Prop. Cor.
Elev. = 167.02 City Datum
5. Top of Curb, E. Side Pine Grove, opposite SW Cor., Lot 1, Blk. "C", Sunridge 2nd Addition.
Elev. = 166.30 City Datum

1. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF TWENTY-FOUR (24) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 687-2470

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

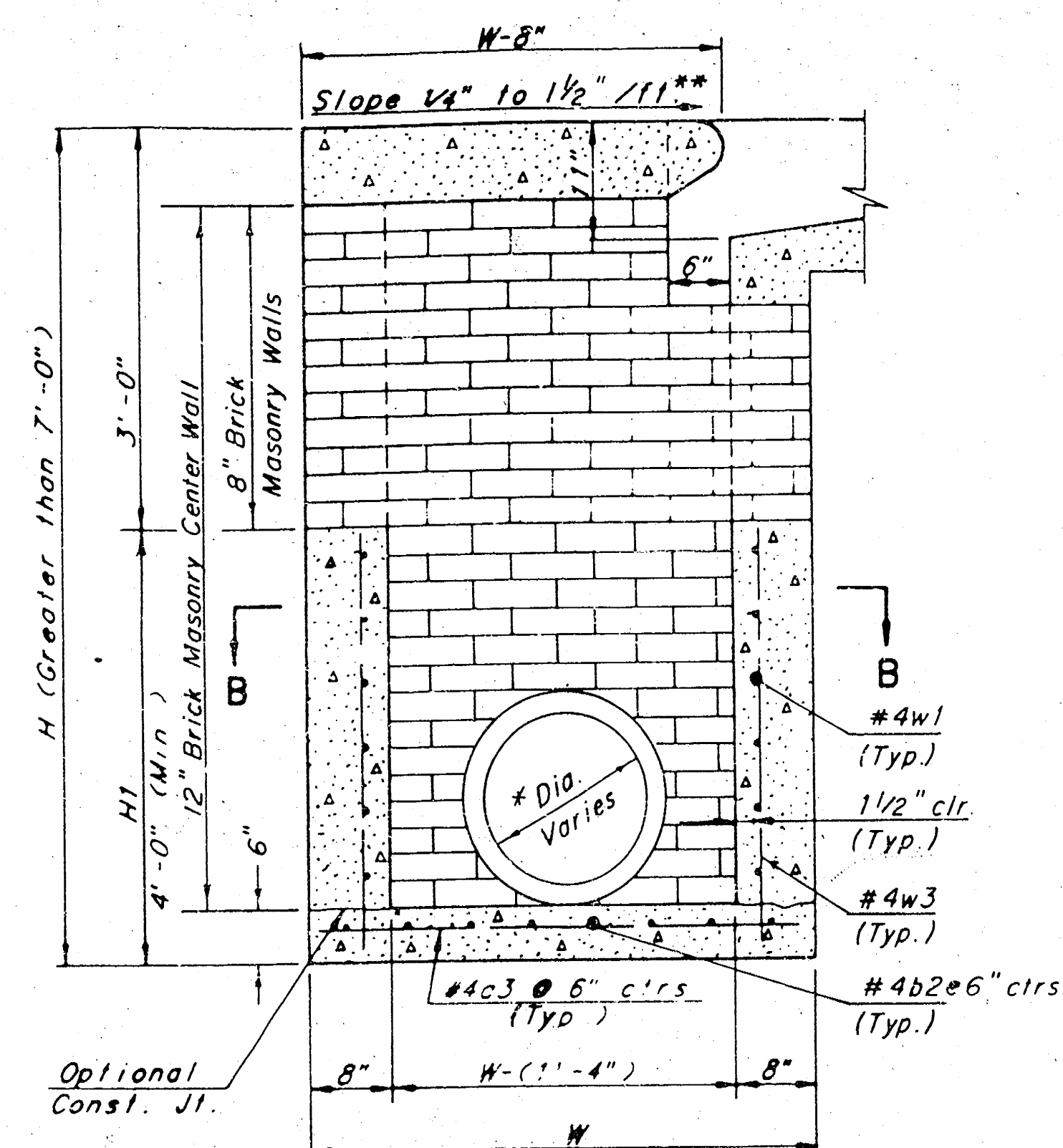
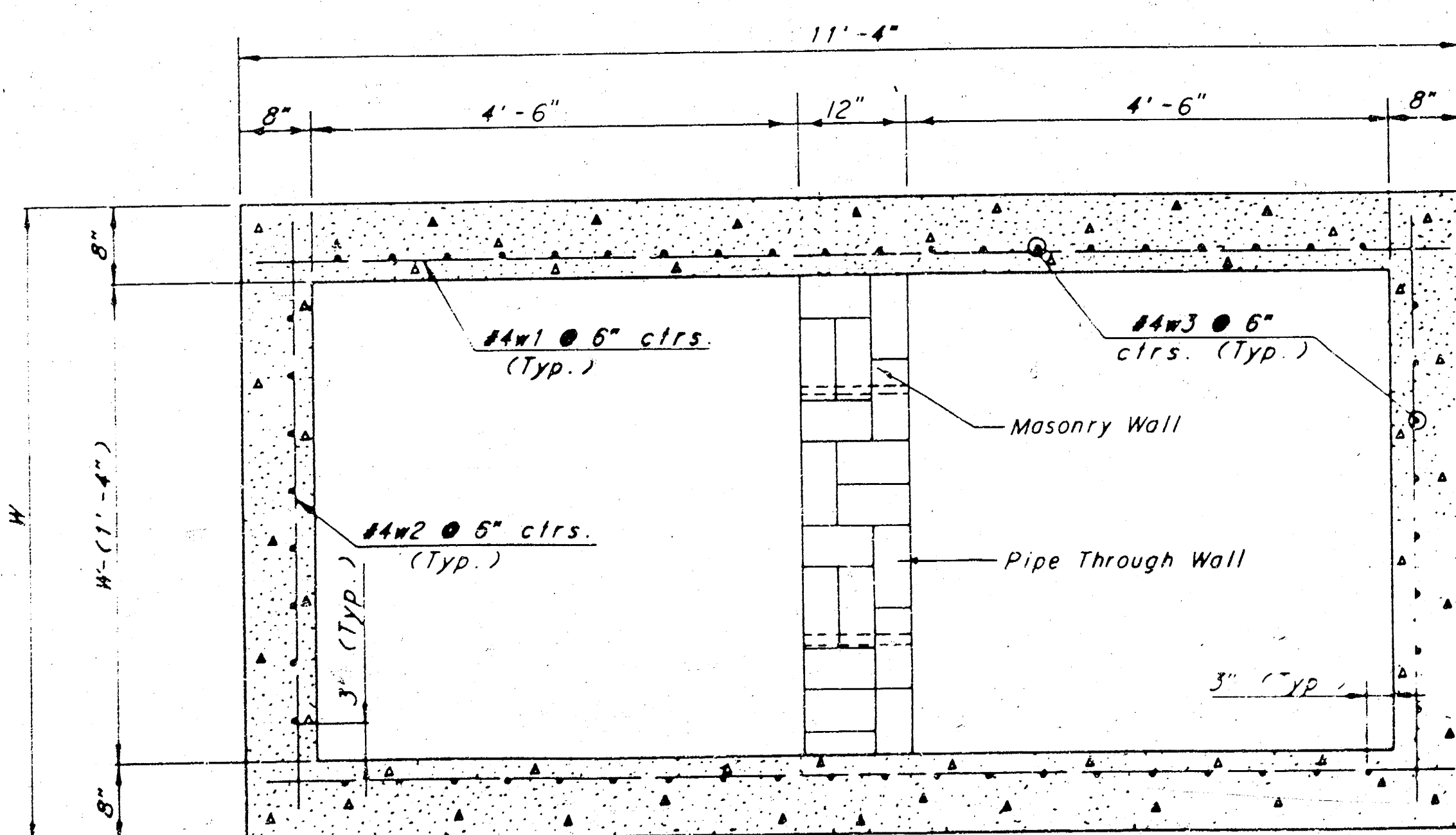
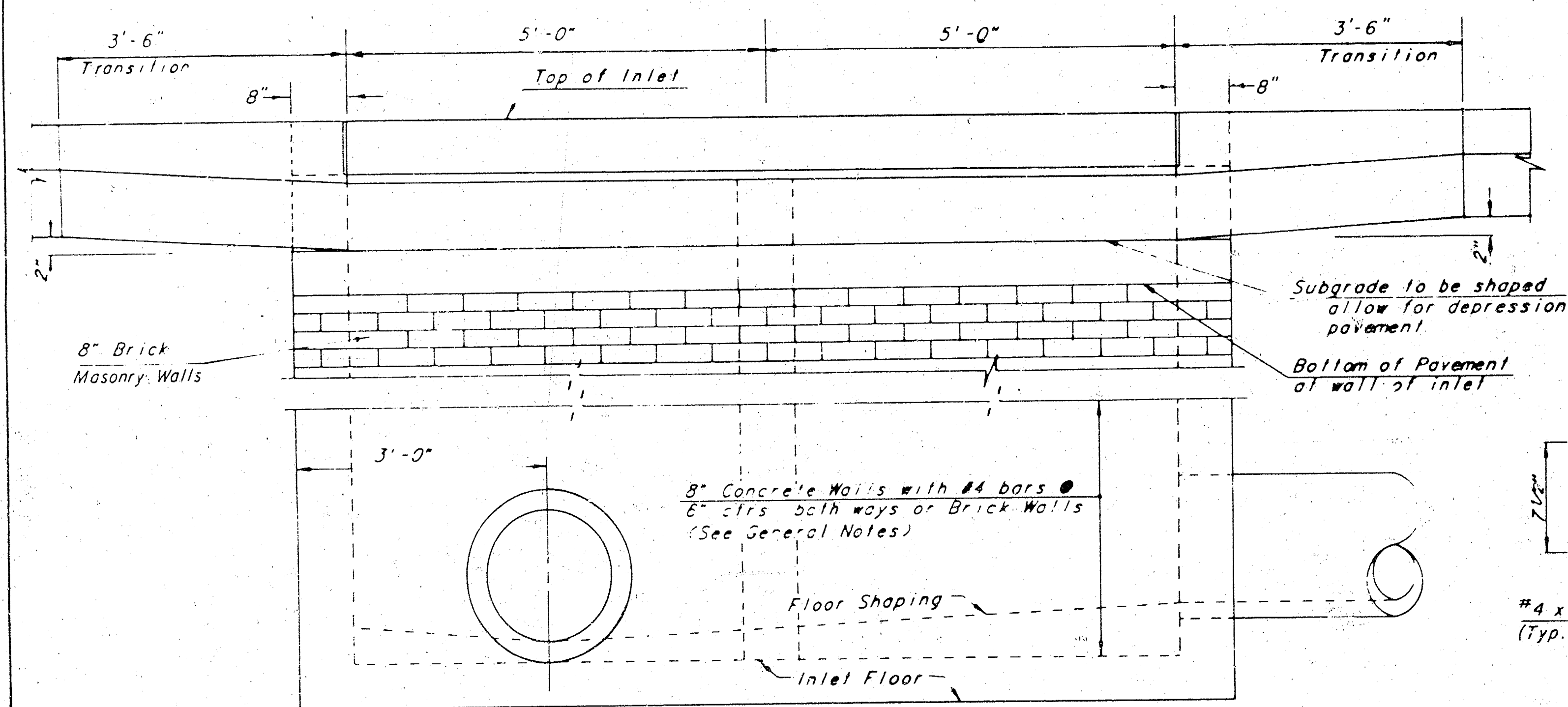
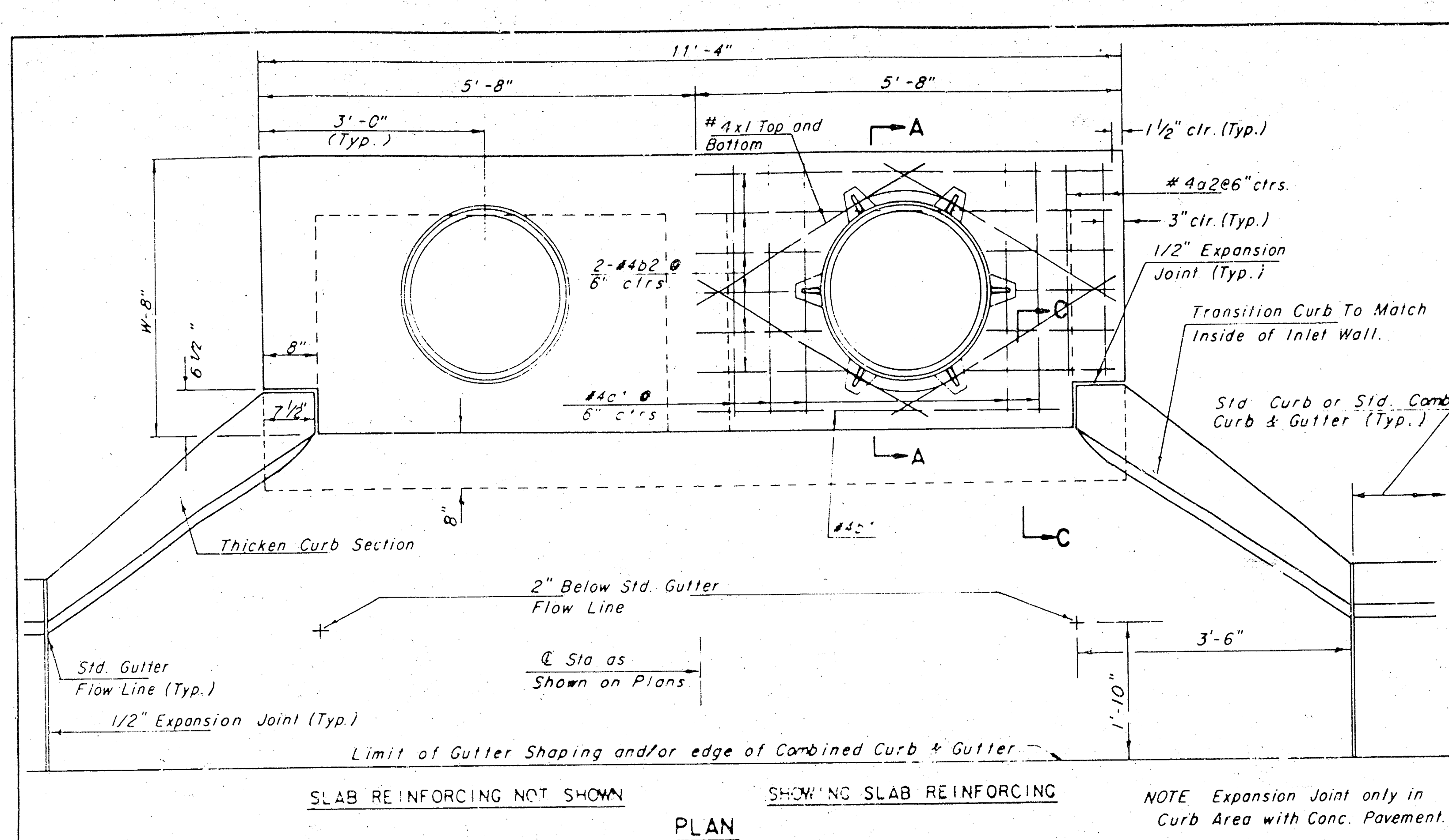
CABLEVISION	262-4270 OR 263-2061
K.P. & L. GAS SERVICE COMPANY	263-7511
KANSAS GAS & ELECTRIC	263-1141
ARKLA GAS COMPANY	942-8350 OR 263-8161
SOUTHWESTERN BELL TELEPHONE COMPANY	1-571-2611
CITY OF WICHITA WATER DEPARTMENT	268-4908
CITY OF WICHITA SEWER MAINTENANCE	268-4071

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
3. INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA IS NOT TO BE CARRIED THROUGH CONSTRUCTION.
4. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
5. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED, SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.

ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS. OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

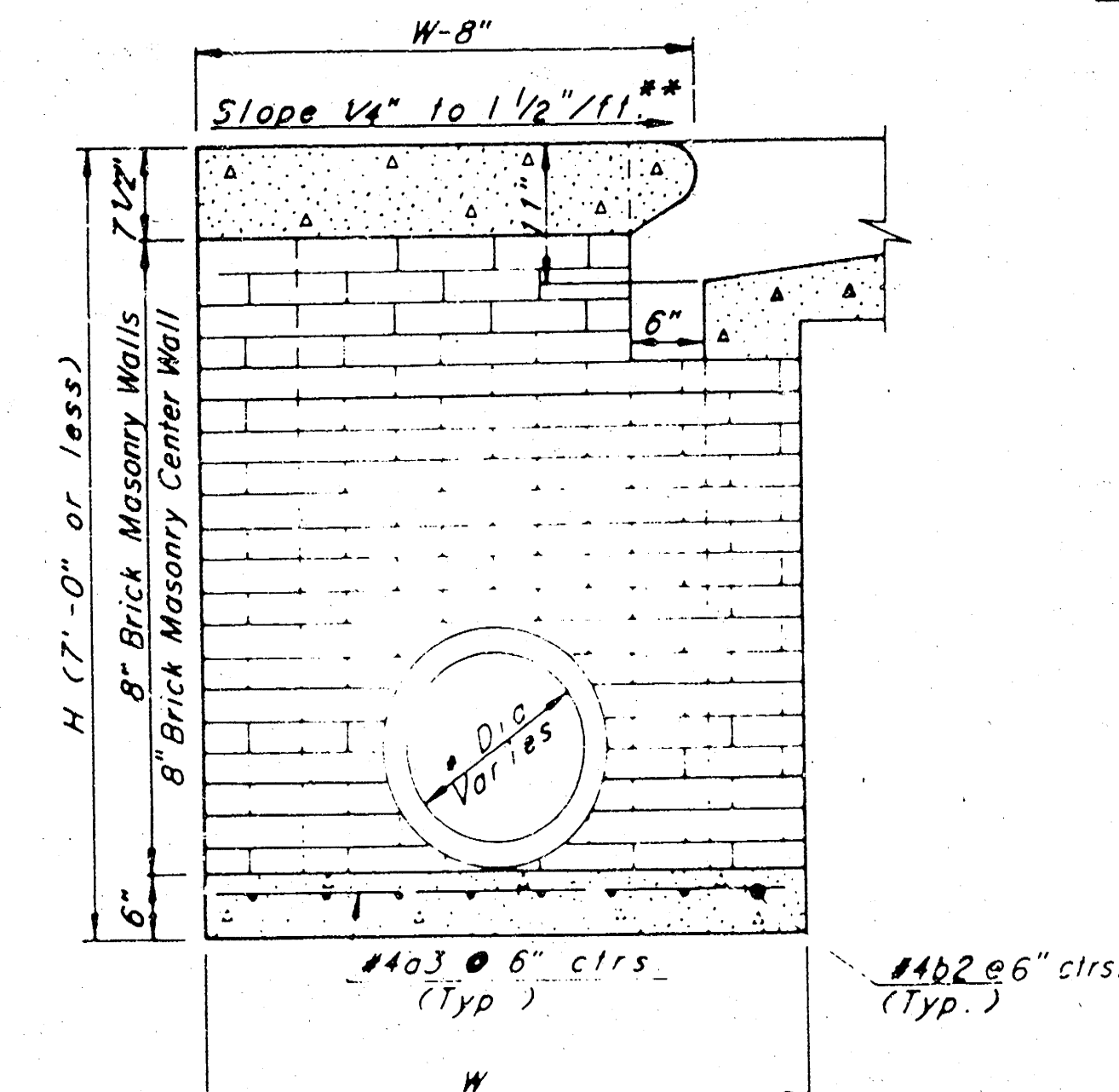
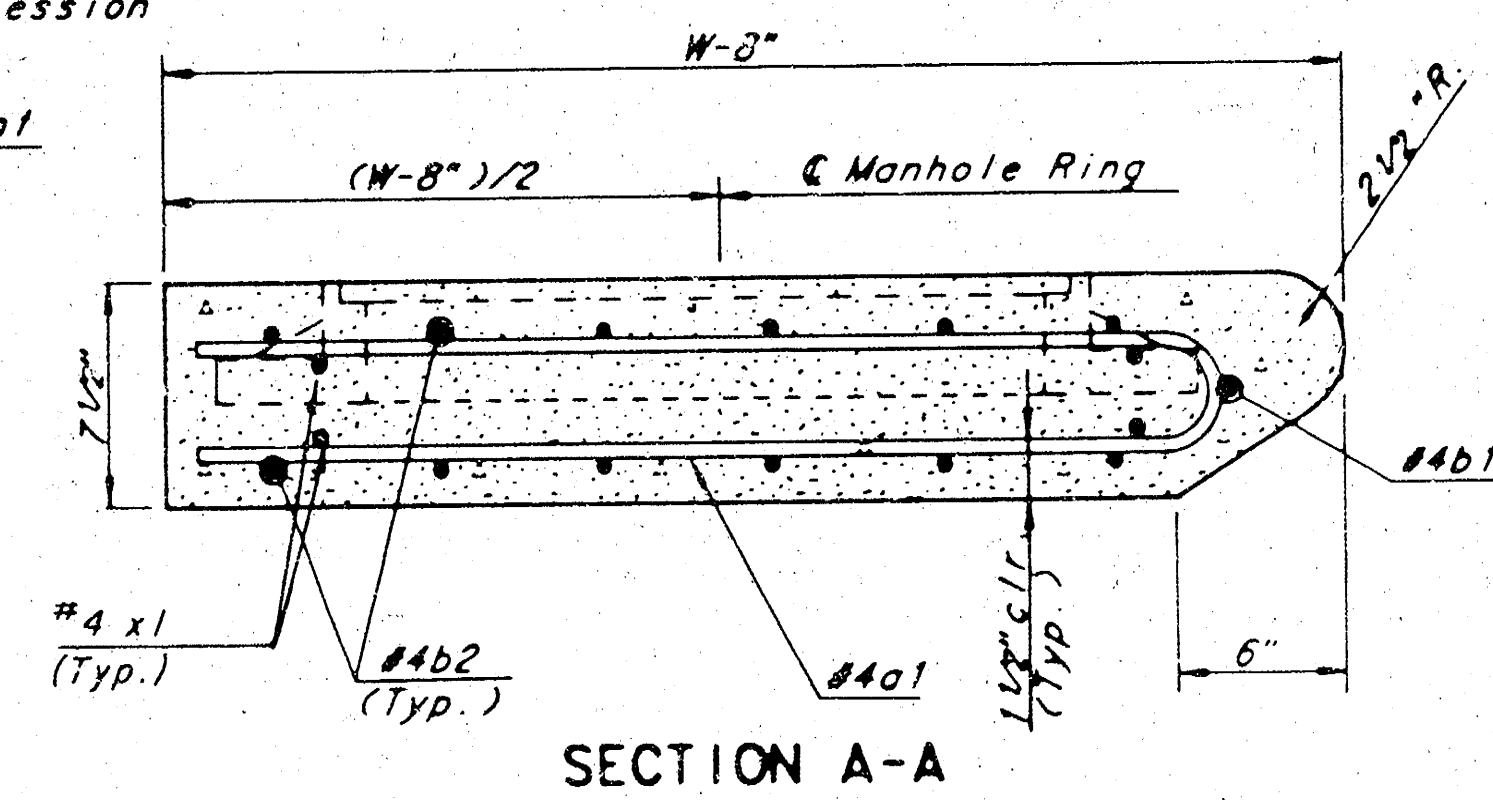
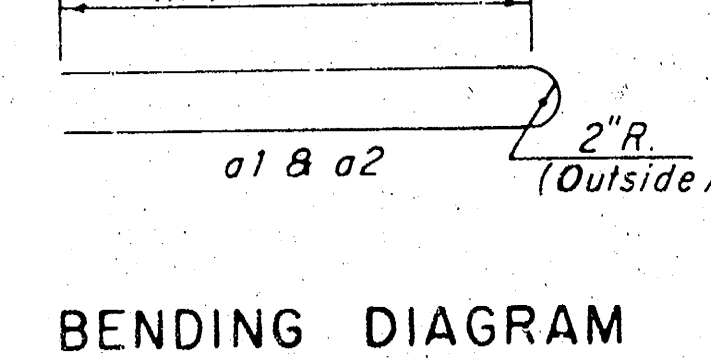
6. THE CONTRACTOR SHALL NOTIFY PIPELINE COMPANIES AT LEAST 24 HOURS IN ADVANCE OF ANY WORK BEING PERFORMED ACROSS AND/OR ADJACENT TO PIPELINES.
7. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
8. CONTRACTOR SHALL GIVE THE OWNER OF PROPERTY ADJUTING THIS PROJECT, WHOSE YARDS WILL BE LOWER THAN THE NEW FINISHED GRADE ELEVATIONS AT THE RIGHT-OF-WAY LINE, AN OPPORTUNITY TO UTILIZE EXCESS EXCAVATED MATERIAL FROM THE PROJECT TO REGRADE THOSE YARDS TO DRAIN. CONTRACTOR WILL BE REQUIRED TO DUMP AND SPREAD THE EXCESS MATERIAL AS REQUIRED BY THE SPECIFICATIONS WHEN REQUESTED BY THE PROPERTY OWNER. THE CONTRACTOR SHALL BE FURNISHED A WRITTEN REQUEST FROM THE PROPERTY OWNER BEFORE ANY SUCH EXCESS MATERIAL IS DELIVERED TO SUCH PROPERTIES.
9. ALL DISTURBED AREAS TO BE RESEEDING USING TEMPORARY RYE GRASS WITHIN 14 DAYS UPON PROJECT COMPLETION.

MOEHRING & ASSOCIATES
CONSULTING ENGINEERS
WICHITA



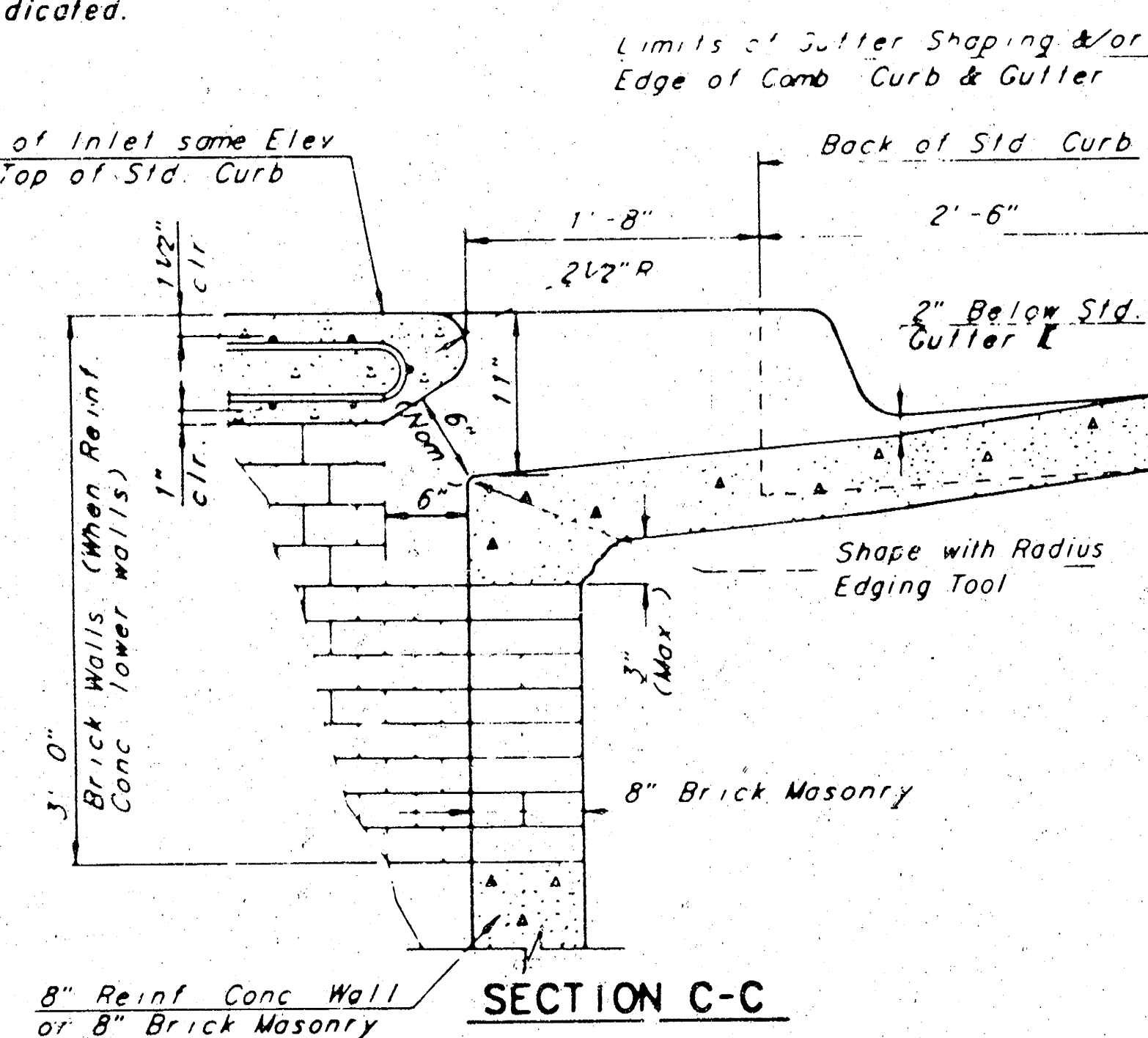
TYPICAL INLET SECTION AT CENTER WALL
(REINFORCED CONCRETE WALLS)

**NOTE: Slope of Inlet Tops to match Sidewalk or Parking Slopes within Limits Indicated.



TYPICAL INLET SECTION AT CENTER WALL
(MASONRY WALLS)

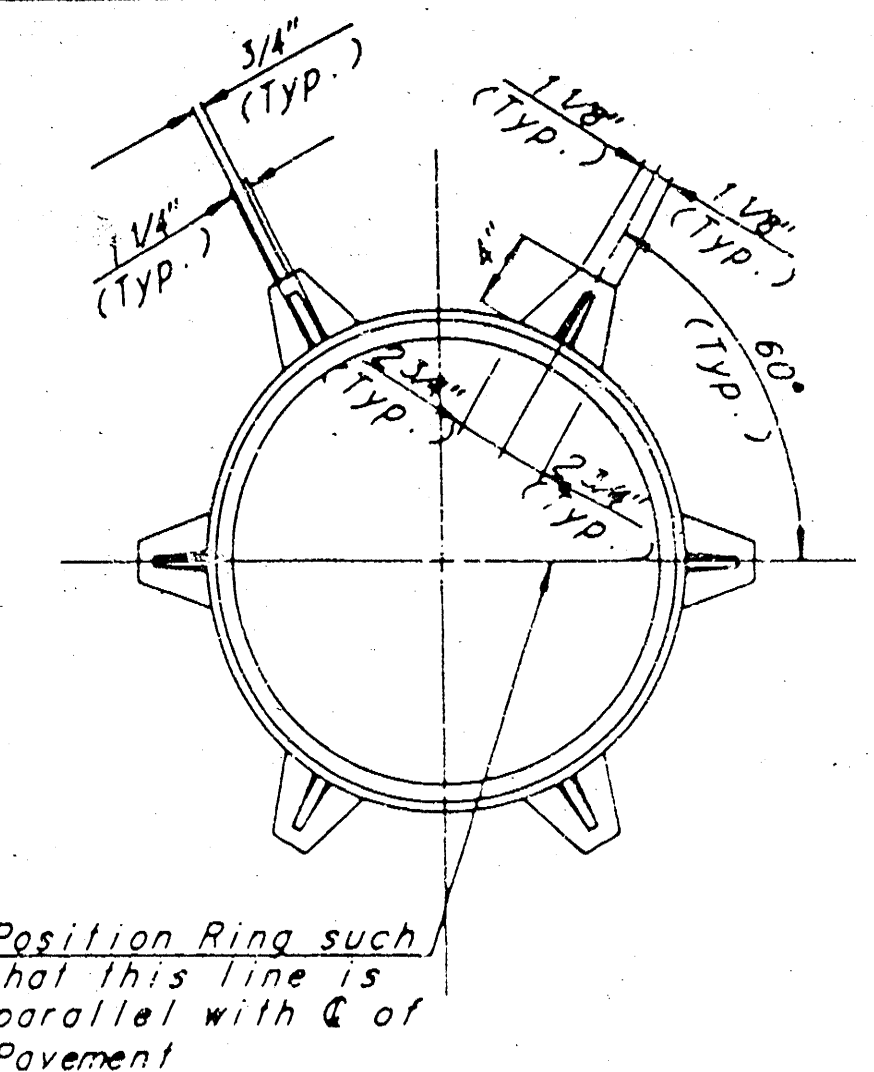
* A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II Below.



GENERAL NOTES

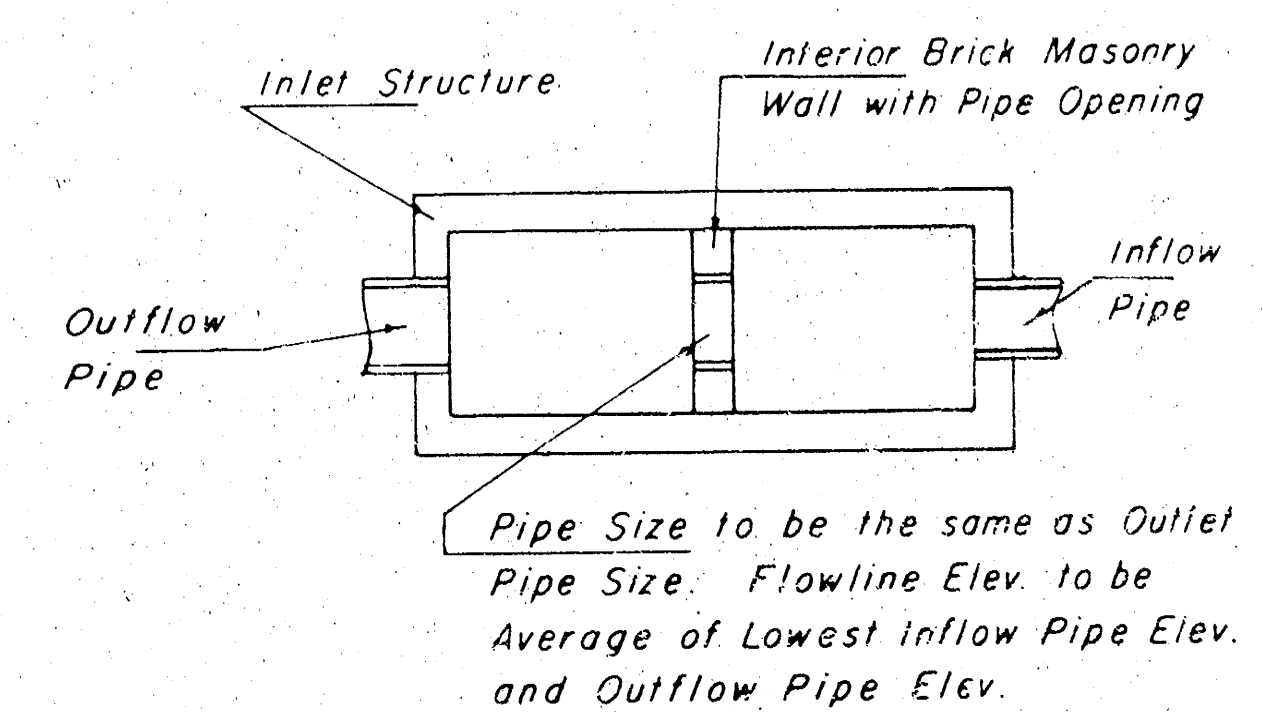
- THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W=6'-4" OR LESS AND H=7'-0" OR LESS. WHEN W IS GREATER THAN 6'-4" AND H IS LESS THAN 7'-0", THE OUTSIDE INLET WALLS BELOW THE BRICK STACK SHALL BE REINFORCED CONCRETE CONSTRUCTION AND THE CENTER WALL SHALL BE OF MASONRY CONSTRUCTION AS SHOWN FOR THE MASONRY WALL OPTION.
- INLET INVERT SHALL BE SHAPED WITH A SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.
- INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB BARS IN INLET TOP TO BE FIELD BENT OR CUT TO CLEAR MANHOLE RING.
- THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

STANDARD CURB INLET PRECAST TOPS				
W	PRE-CAST TOP SIZE	SIDE OR INTERIOR WALL PIPE SIZE	CU. YD. CONC.	
4'-4"	3'-8" x 11'-4" x 7 1/2"	21" B SMALLER	0.83 ±	
5'-4"	4'-8" x 11'-4" x 7 1/2"	24" B 30"	1.09 ±	
6'-4"	5'-8" x 11'-4" x 7 1/2"	36" B 42"	1.35 ±	
7'-4"	6'-8" x 11'-4" x 7 1/2"	48" B 54"	1.61 ±	
8'-4"	7'-8" x 11'-4" x 7 1/2"	60" B 66"	1.87 ±	

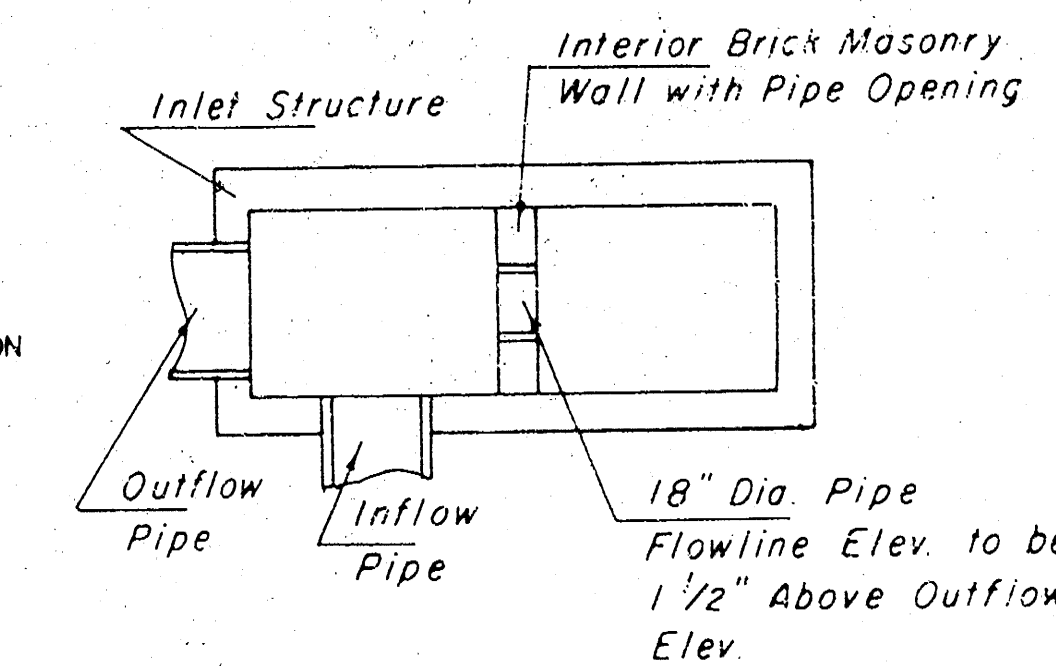


CAST IRON INLET RING
Wt. - 180 lbs.

See City of Wichita Standard Manhole Frame and Cover Detail Sheet for Cover Details to be Used with Inlet Frame.



CASE I



CASE II

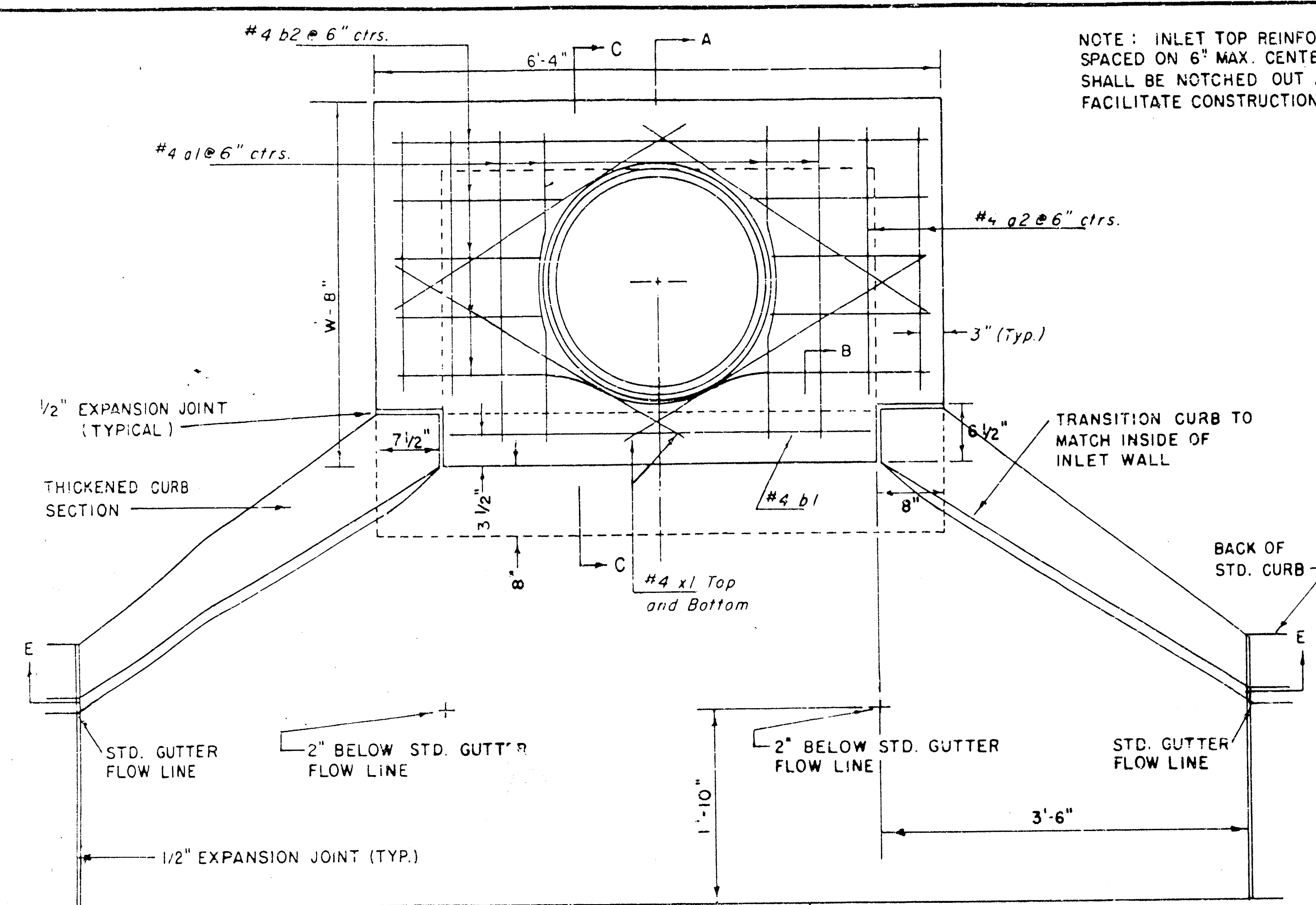
NOTE: Center Wall Pipe Size shall be as Specified in Inlet Construction Note on the Plan/Profile Sheets for those Cases not shown here.

STANDARD TYPE 1A CURB INLET

INLET OPENING = 6' x 10' - 0"

WICHITA, KANSAS

Designed by	BER, KJS, LMB	Checked by	LMB
Drawn by	JGP	Date	Nov. 1984

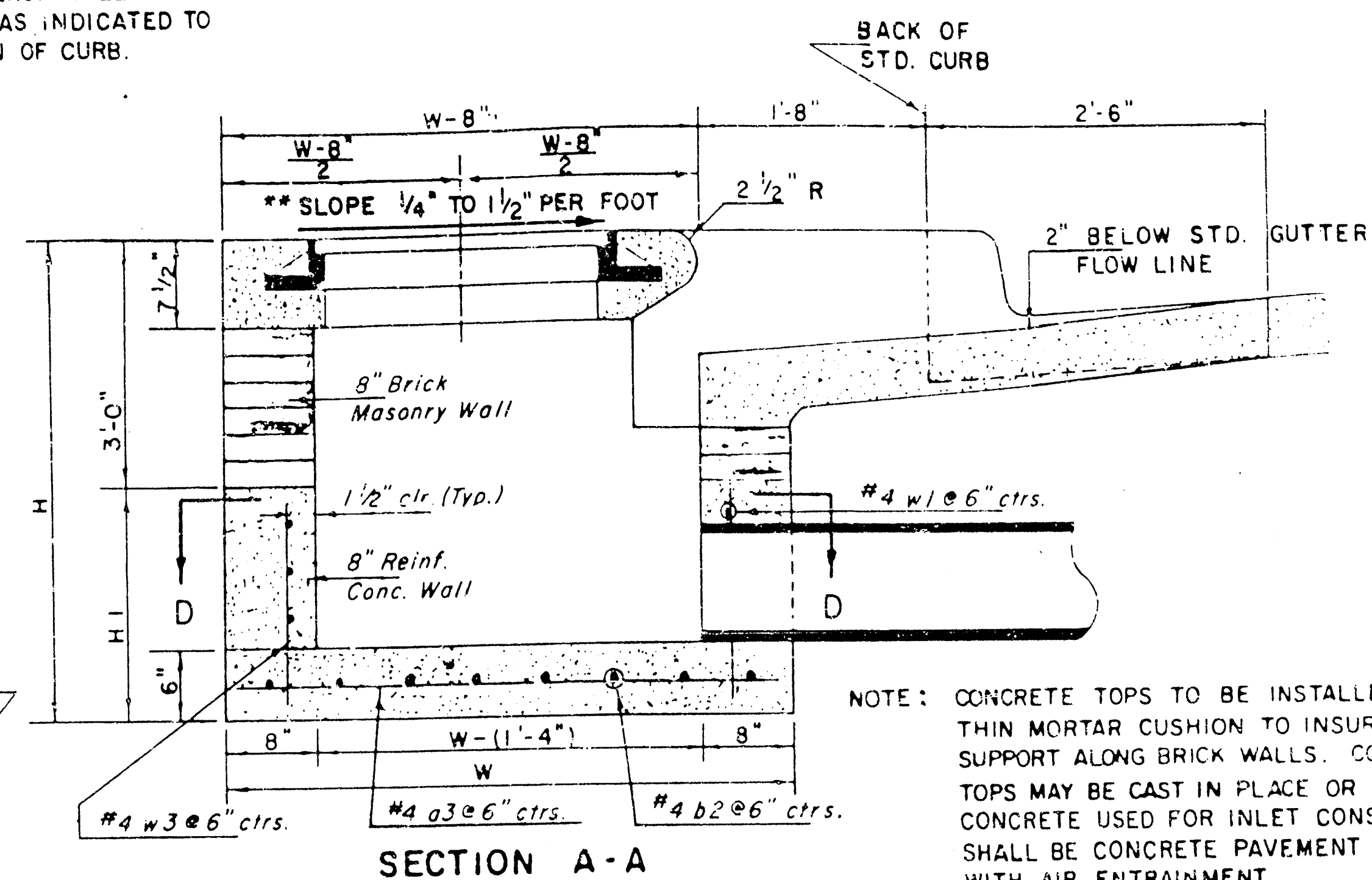
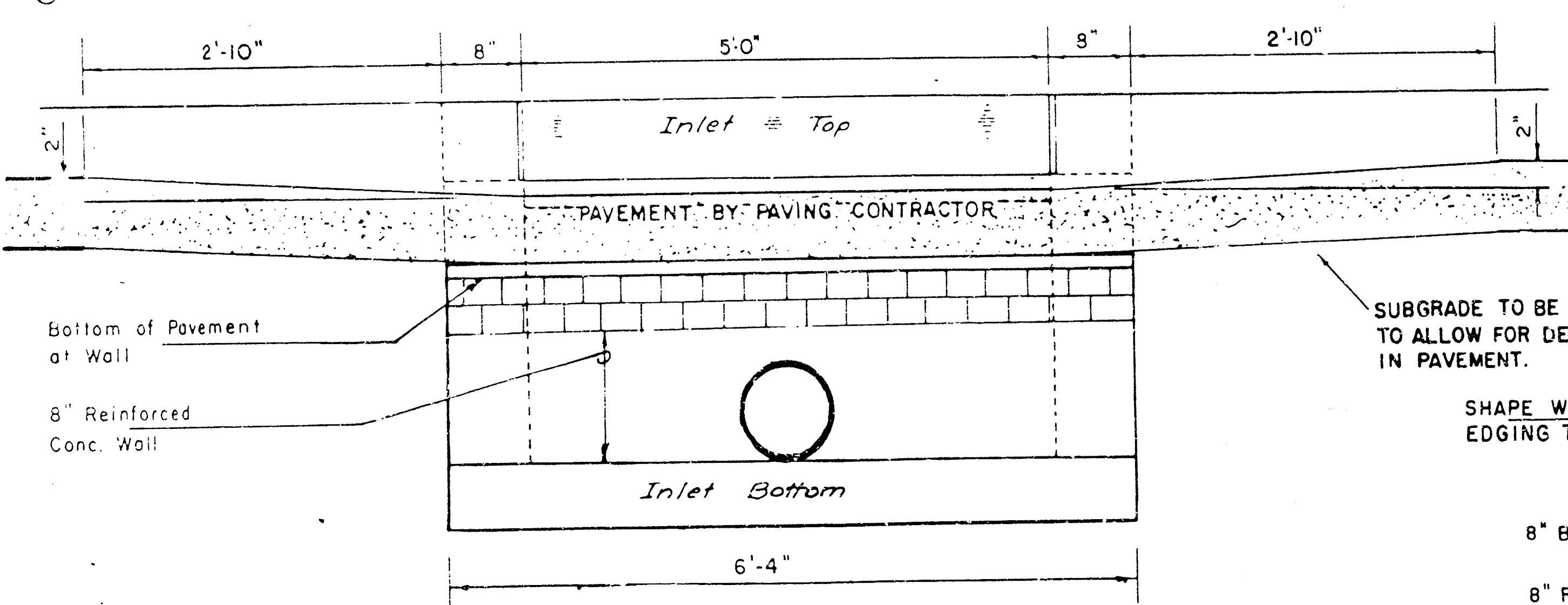


PLAN

PRECAST SLAB AND FLOOR REINFORCING											
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
a1	#4	5	6'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

WALL REINFORCING											
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
w1	#4	0	6'-1"	0	6'-1"	0	6'-1"	0	6'-1"	0	6'-1"
w2	#4	0	4'-1"	0	5'-1"	0	6'-1"	0	7'-1"	0	8'-1"
w3	#4	32	2	36	2	40	2	44	2	48	2

- * Field bend or cut Reinforcing as required for clearance.
- ① 4(HI-12"); (HI-12") Round down to nearest 0.5'
- ② HI-3"



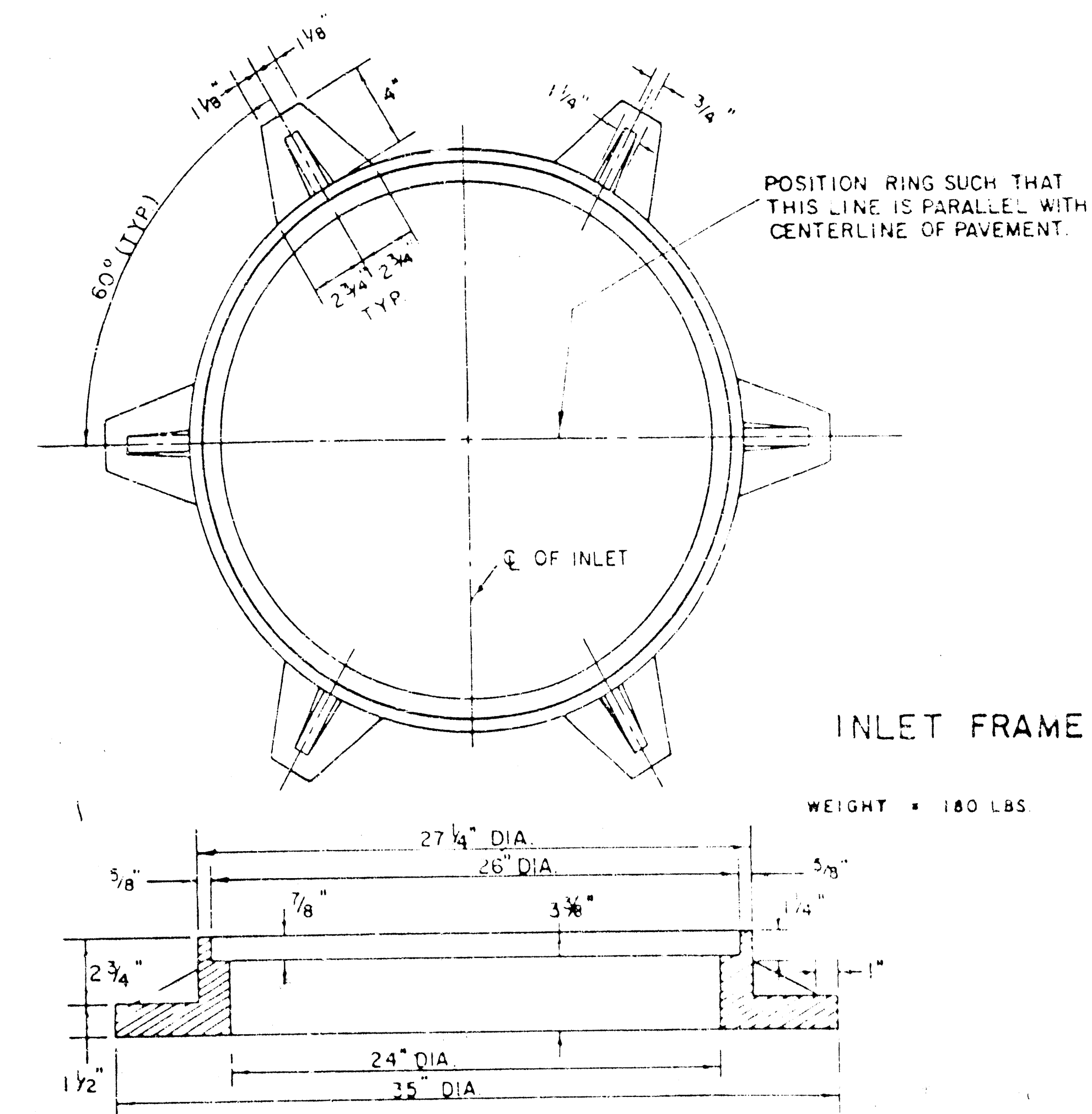
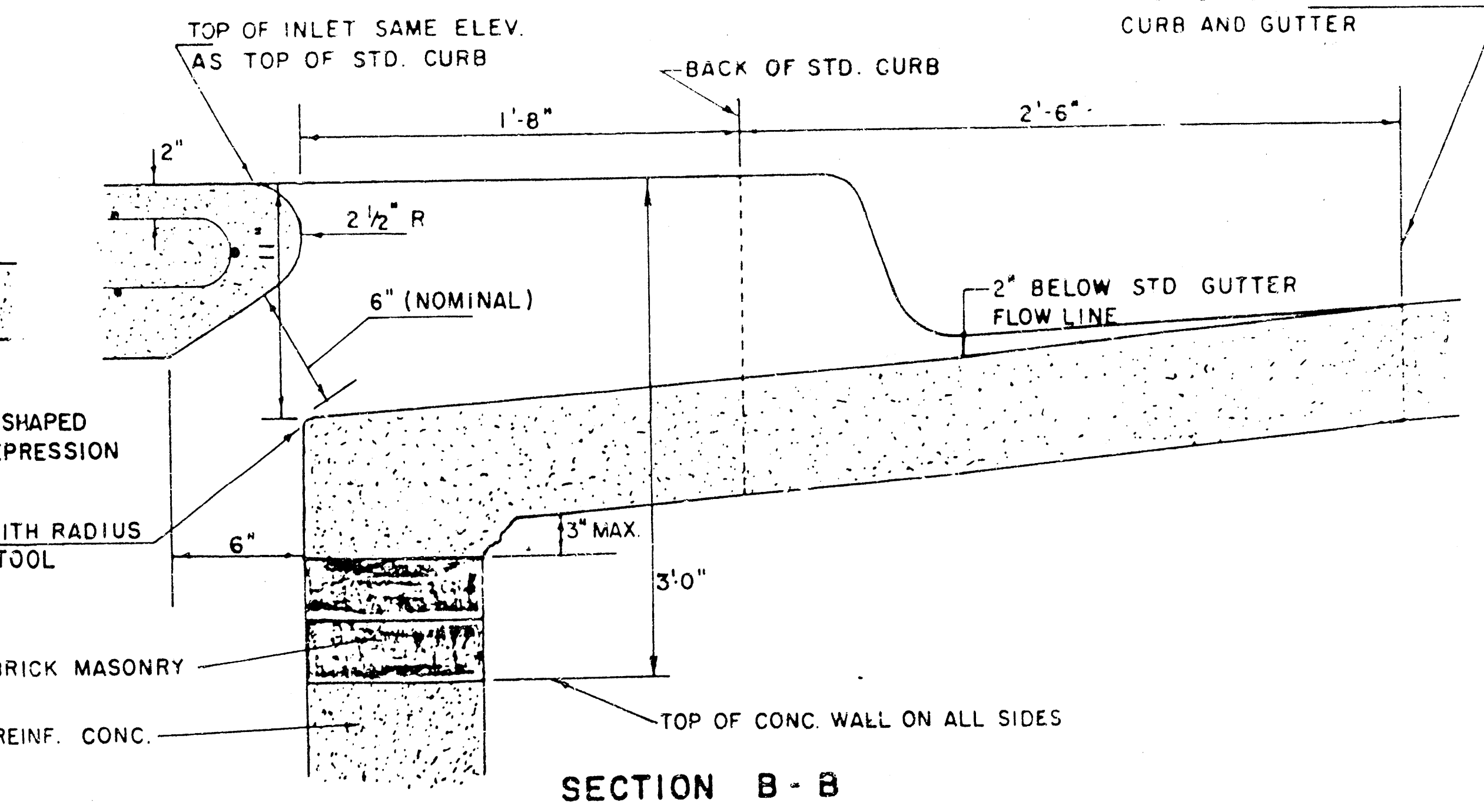
NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'-4" AND H = 7'-0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

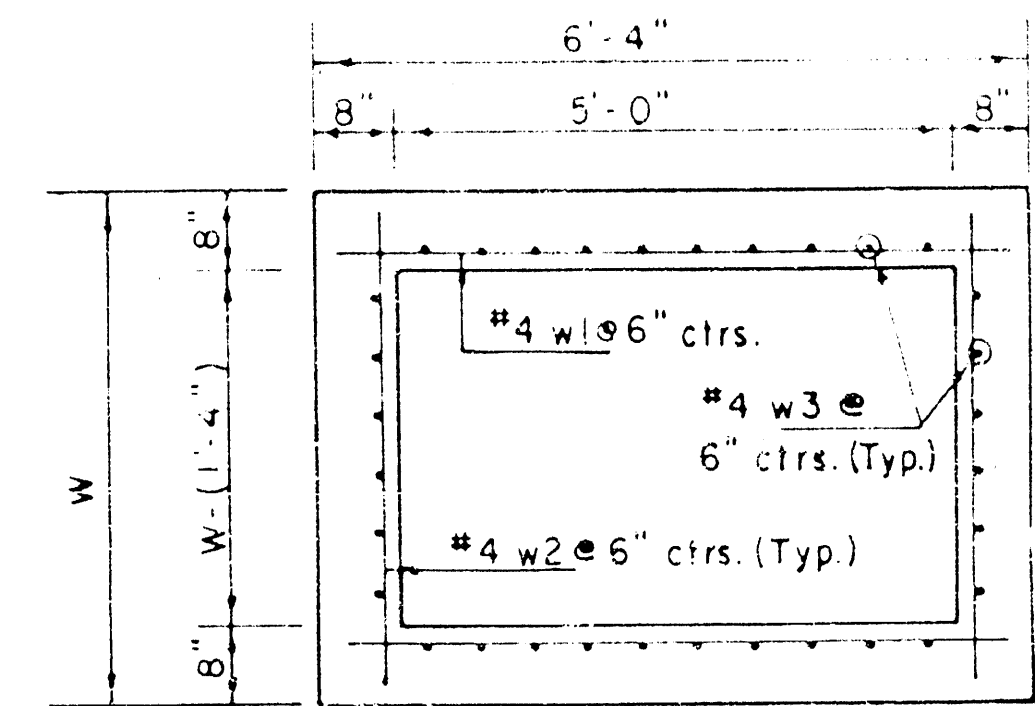
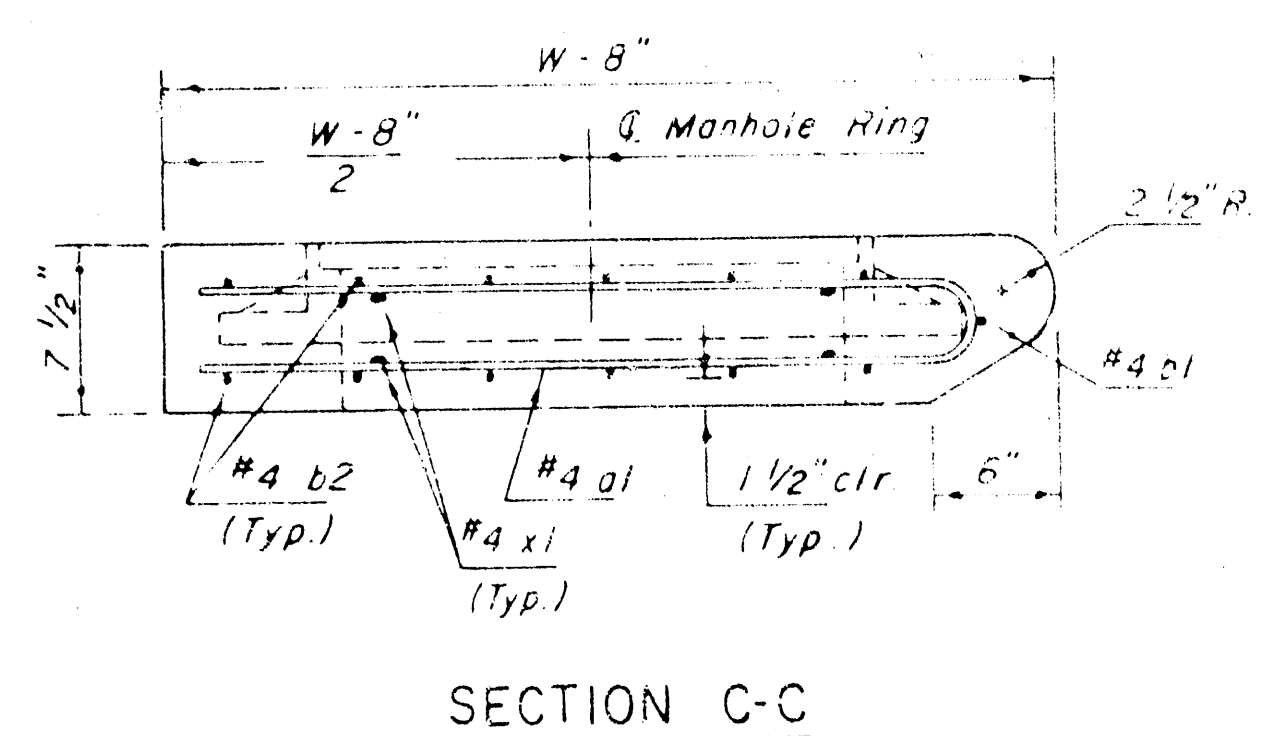
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF-CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

** NOTE: Slope of Inlet Tops to match Sidewalk or Parking Slopes within Limits indicated.



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.



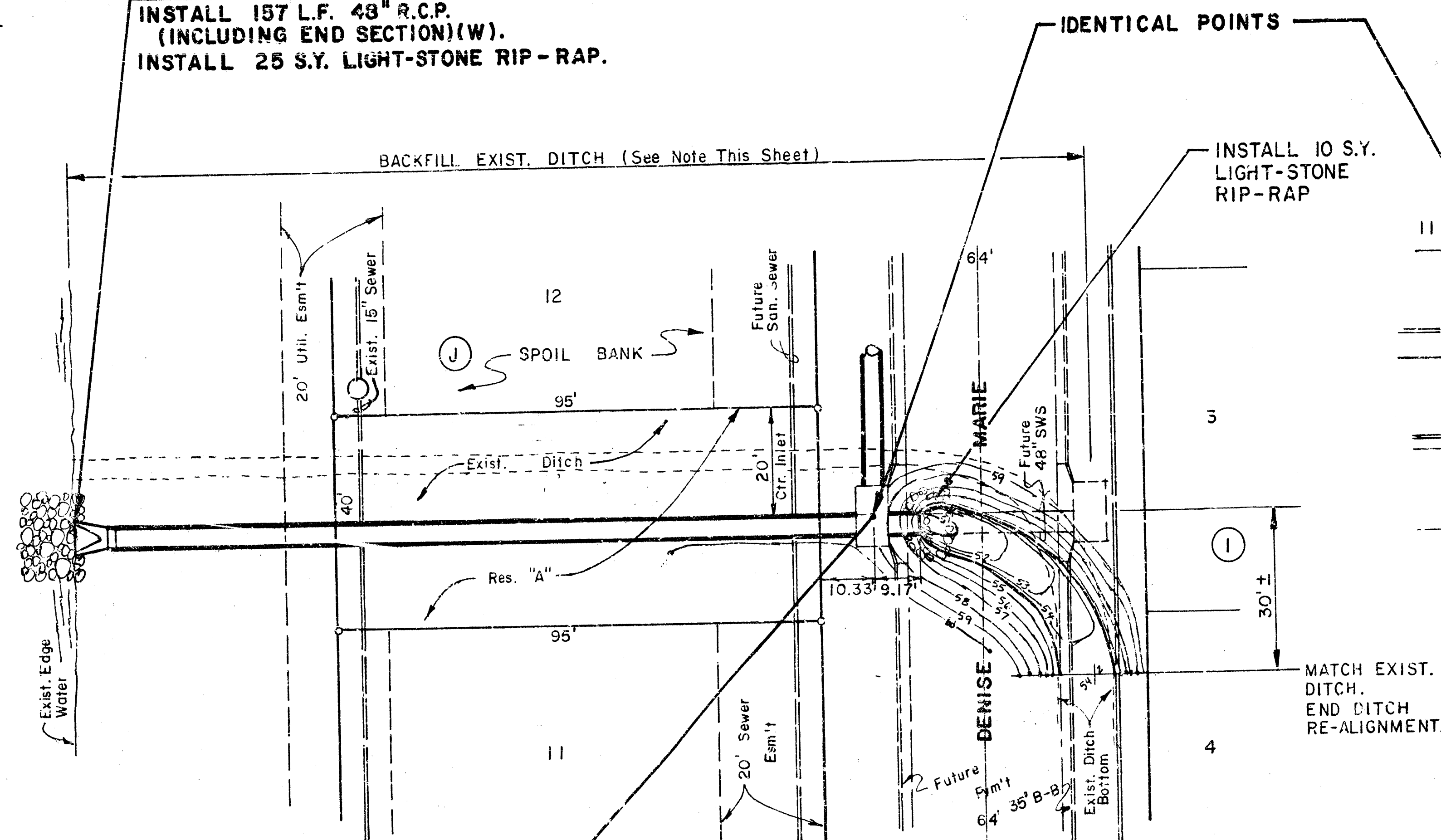
REVISED 11-30-1988
REVISED 12-21-1984
Revised 2-16-1989

DETAIL STANDARD TYPE IA CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5' 0"

JUNE 1984

1" = 20' Horiz.
1" = 5' Vert.
o = Iron

STA. 0+00
INSTALL 157 L.F. 48" R.C.P.
(INCLUDING END SECTION)(W).
INSTALL 25 S.Y. LIGHT-STONE RIP-RAP.



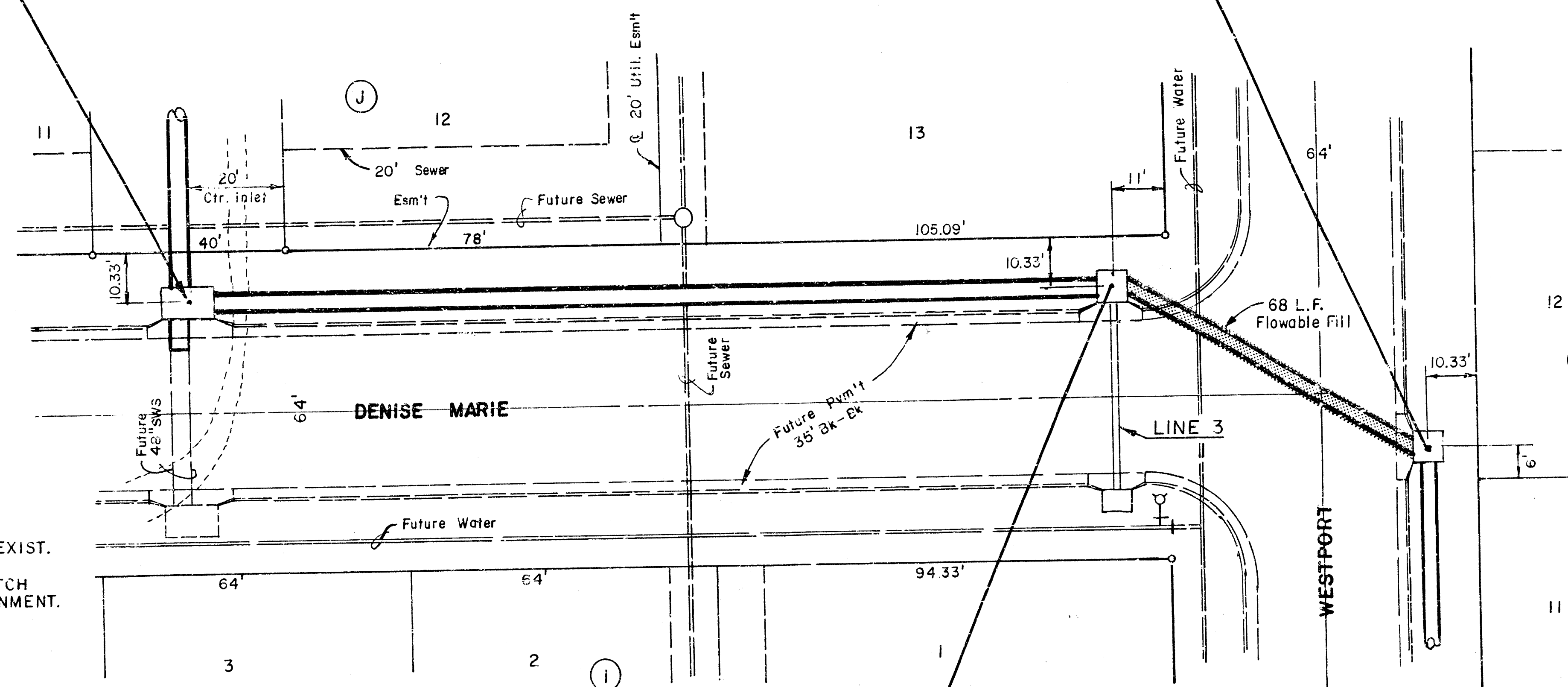
CONSTRUCTION NOTE:

RE-ALIGN DITCH FLOW INTO 48" STUB ON WEST SIDE OF INLET STRUCTURE. BACKFILL EXISTING DITCH TO FINISHED GRADE WITH MATERIAL FROM SPOIL BANK AND/OR EXCESS EXCAVATION. BACKFILL SHALL BE COMPACTED TO 90% STANDARD DENSITY AND 95% STANDARD DENSITY WITHIN STREET R/W. THIS ITEM OF WORK TO BE SUBSIDIARY TO OTHER BID ITEMS.

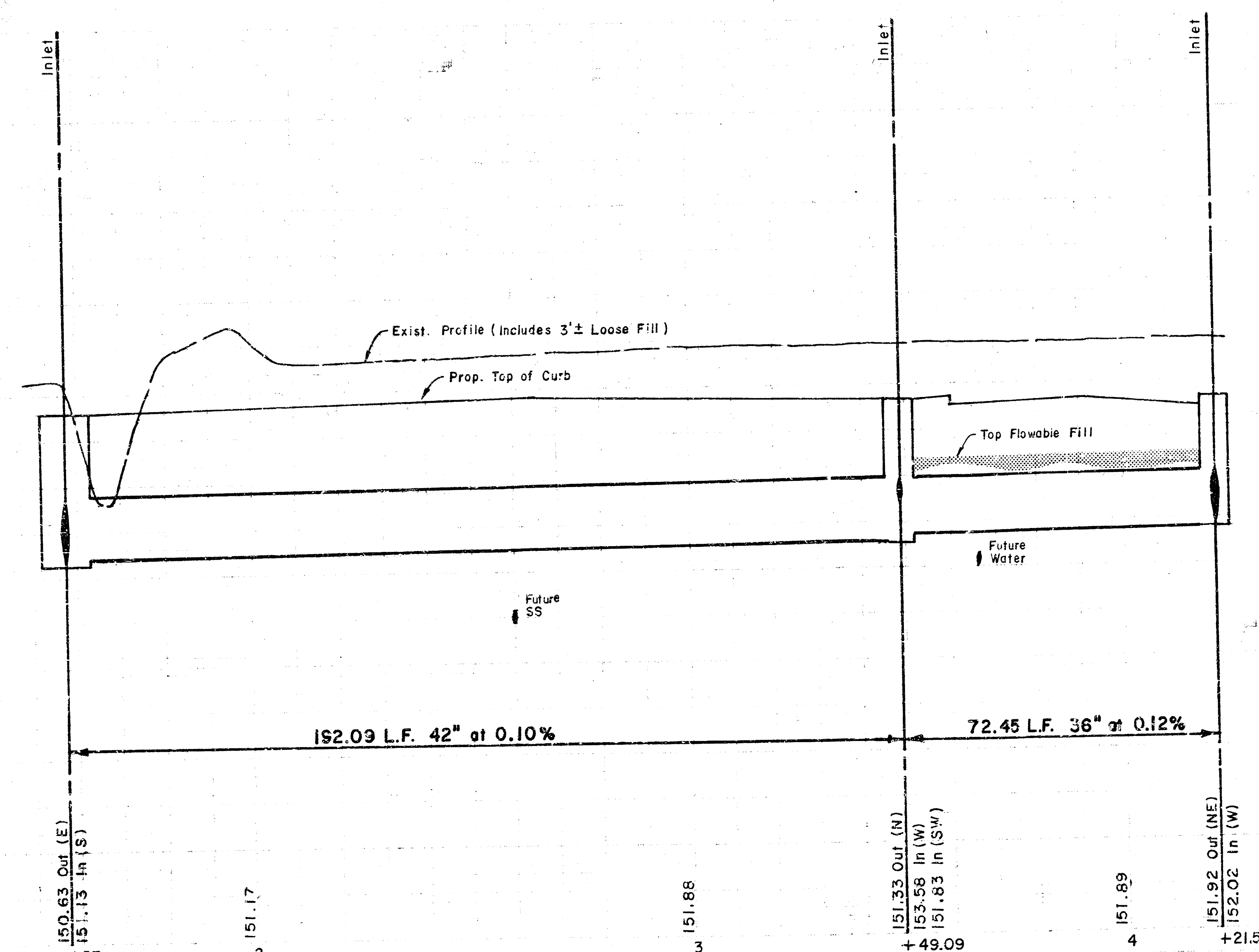
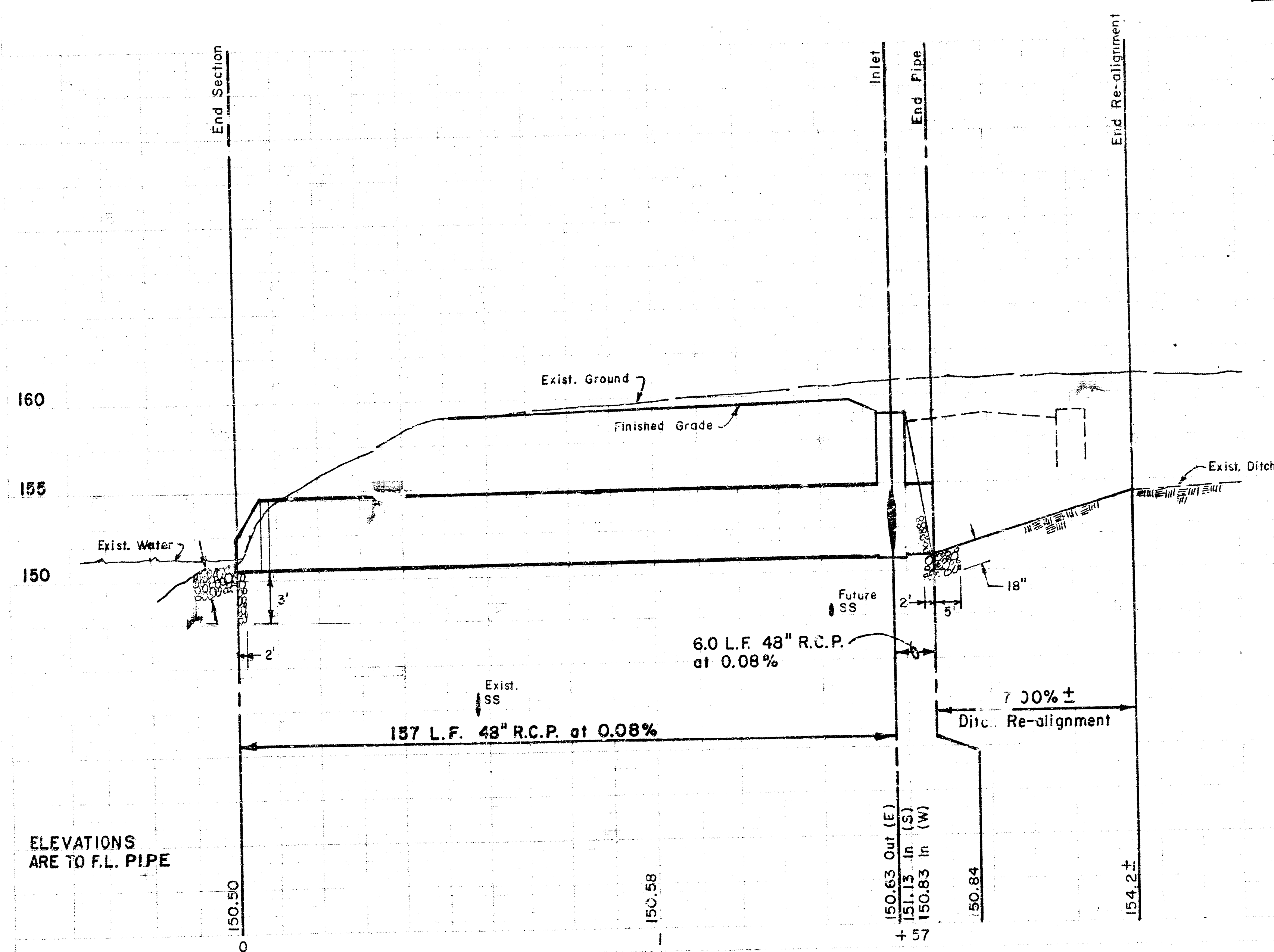
STA. 1+57
CONSTRUCT STD. TYPE I-A CURB INLET
W = 6'-4", L = 11'-4", TOP = 159.00
INSTALL 192.09 L.F. 42" R.C.P. (S)
INSTALL 6.0 L.F. 48" R.C.P. (W)

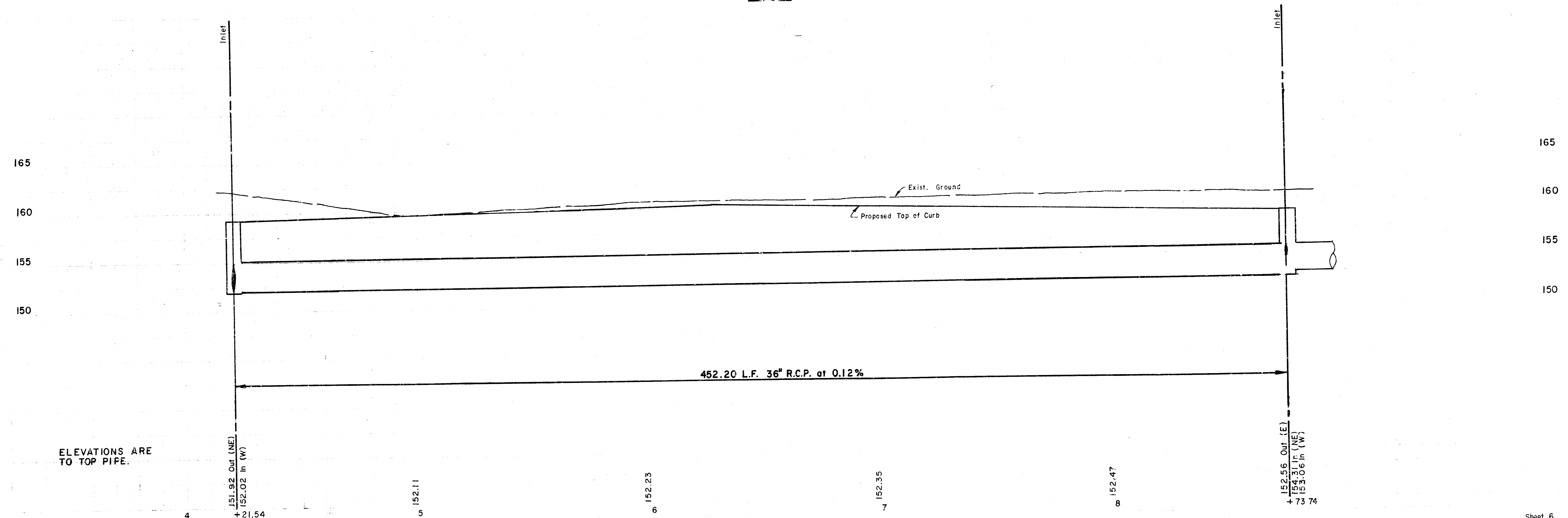
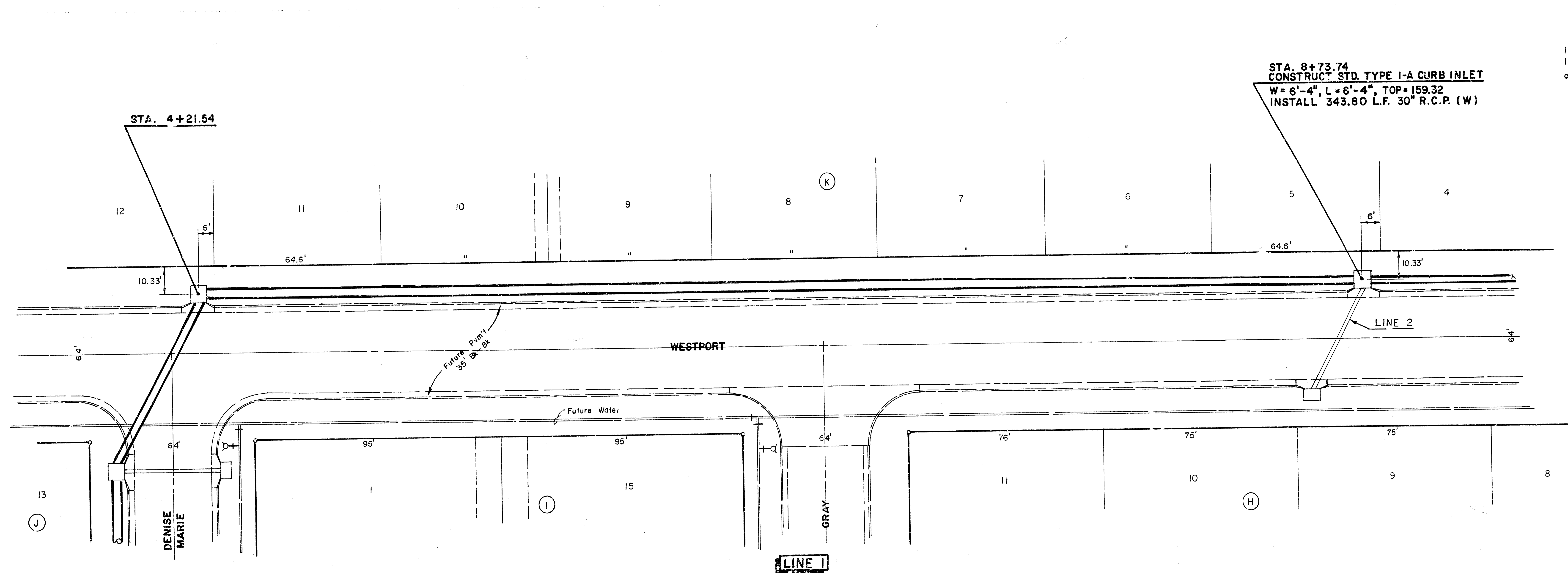
LINE 1

STA. 4+21.54
CONSTRUCT STD. TYPE I-A CURB INLET
W = 6'-4", L = 6'-4", TOP = 159.29
INSTALL 452.20 L.F. 36" R.C.P. (W)

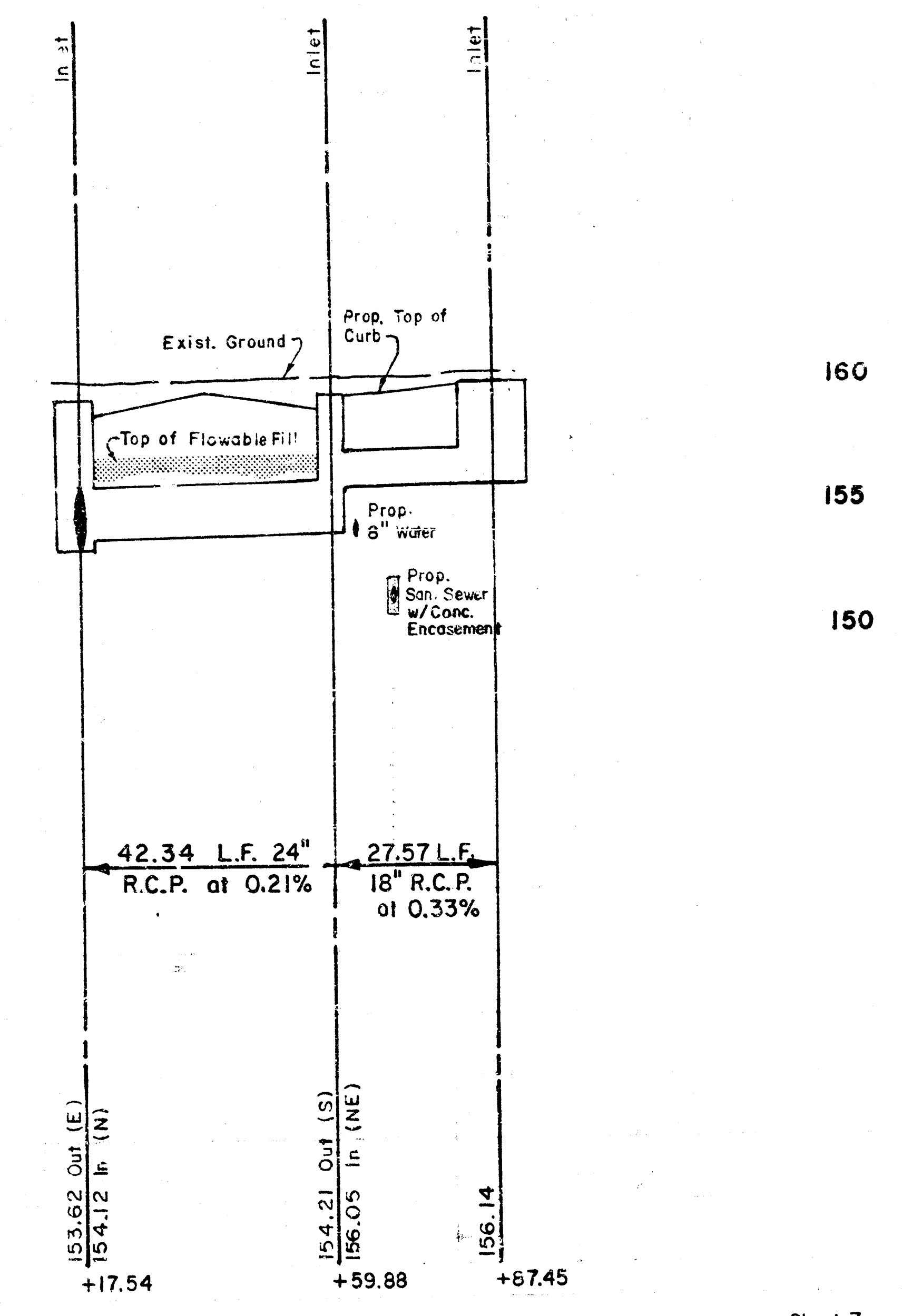
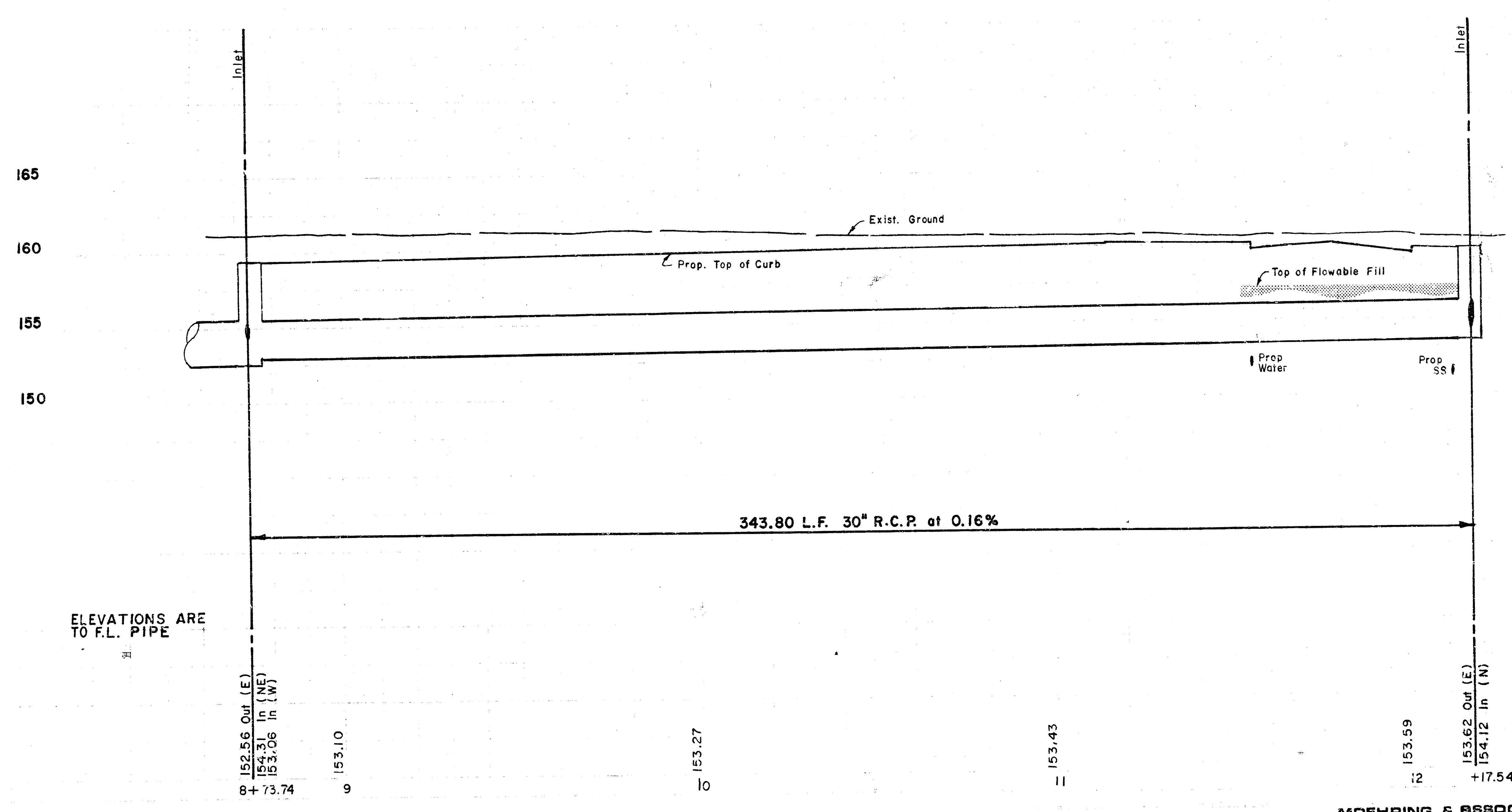
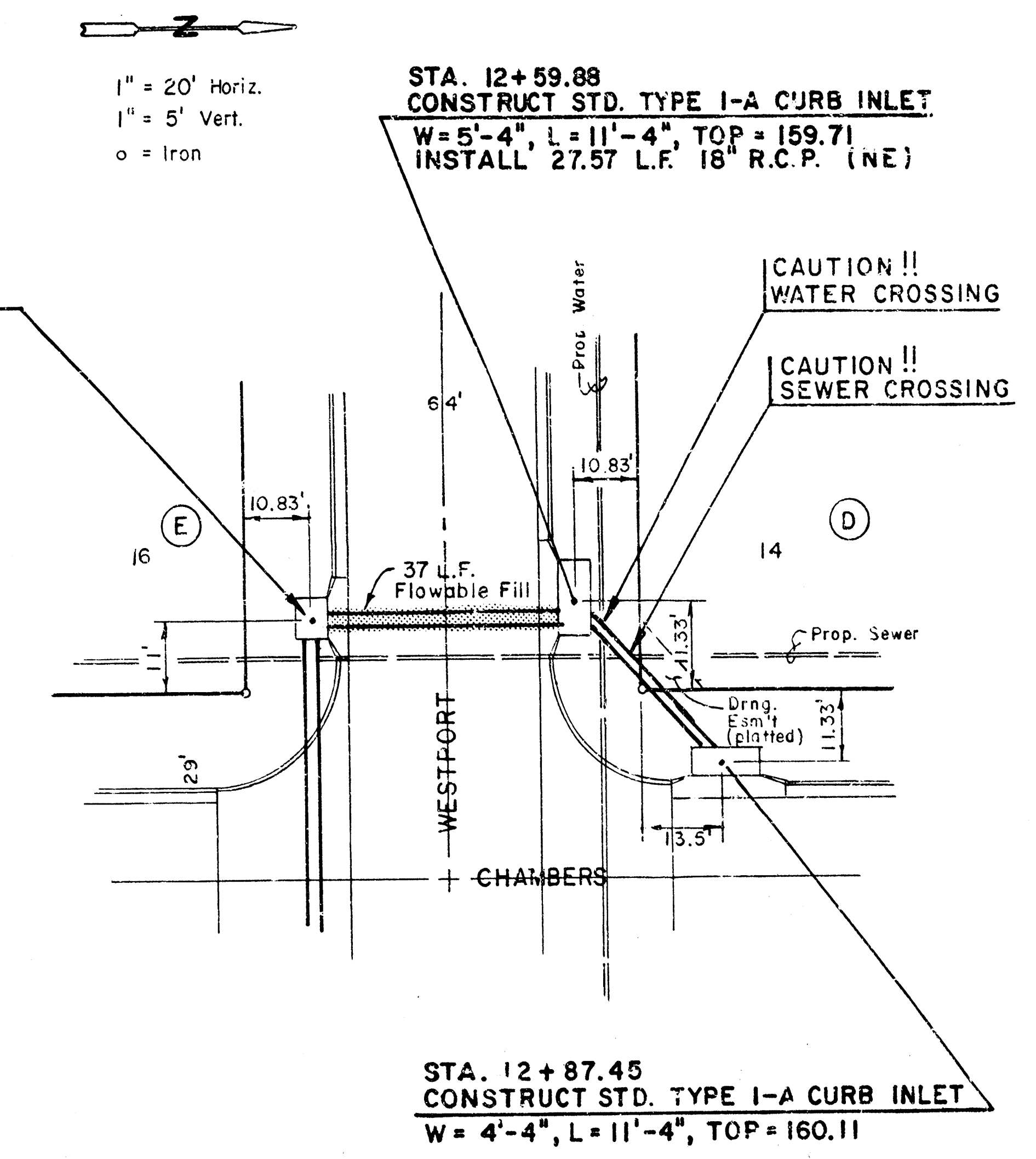
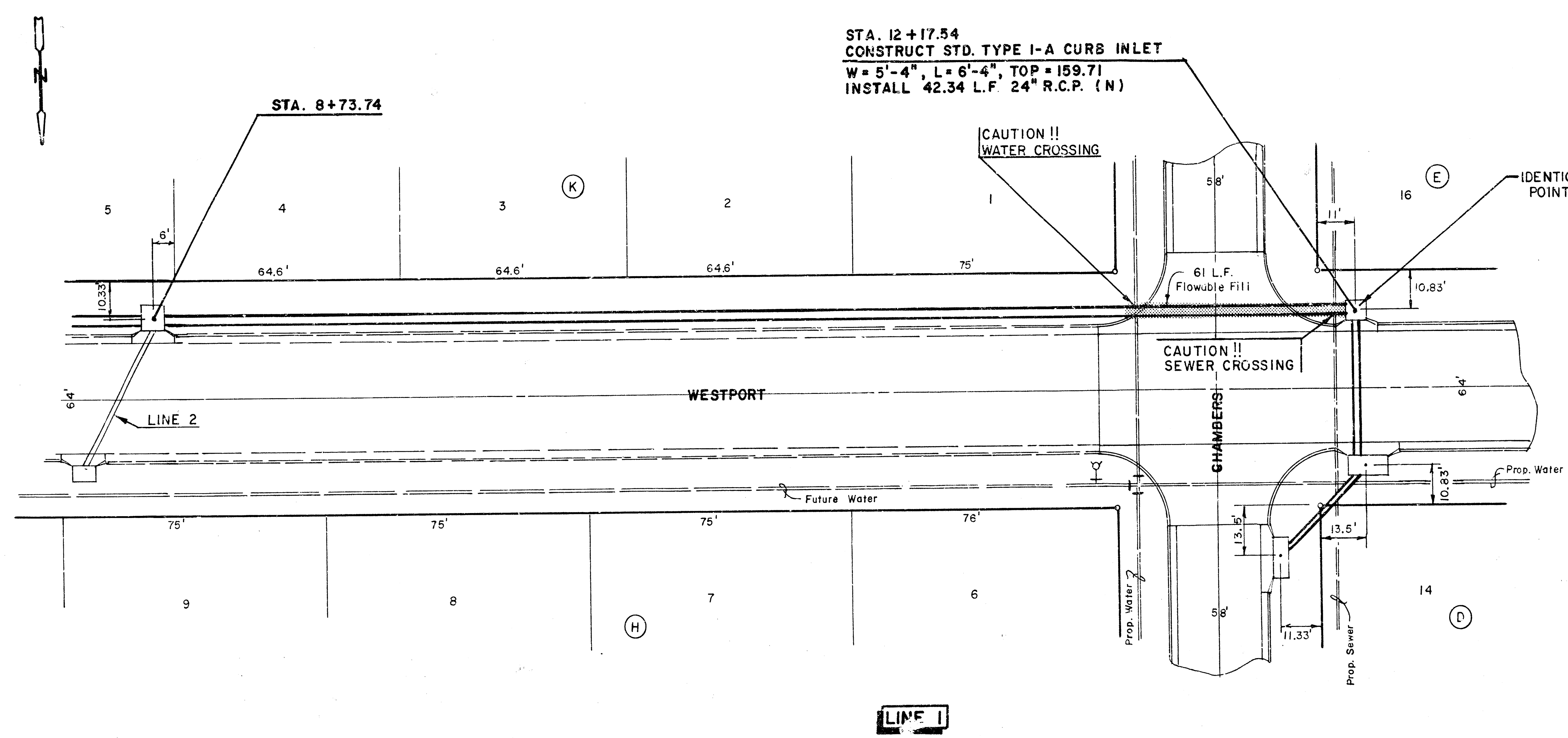


STA. 3+49.09
CONSTRUCT STD. TYPE I-A CURB INLET
W = 6'-4", L = 6'-4", TOP = 159.22
INSTALL 72.45 L.F. 36" R.C.P. (SW)

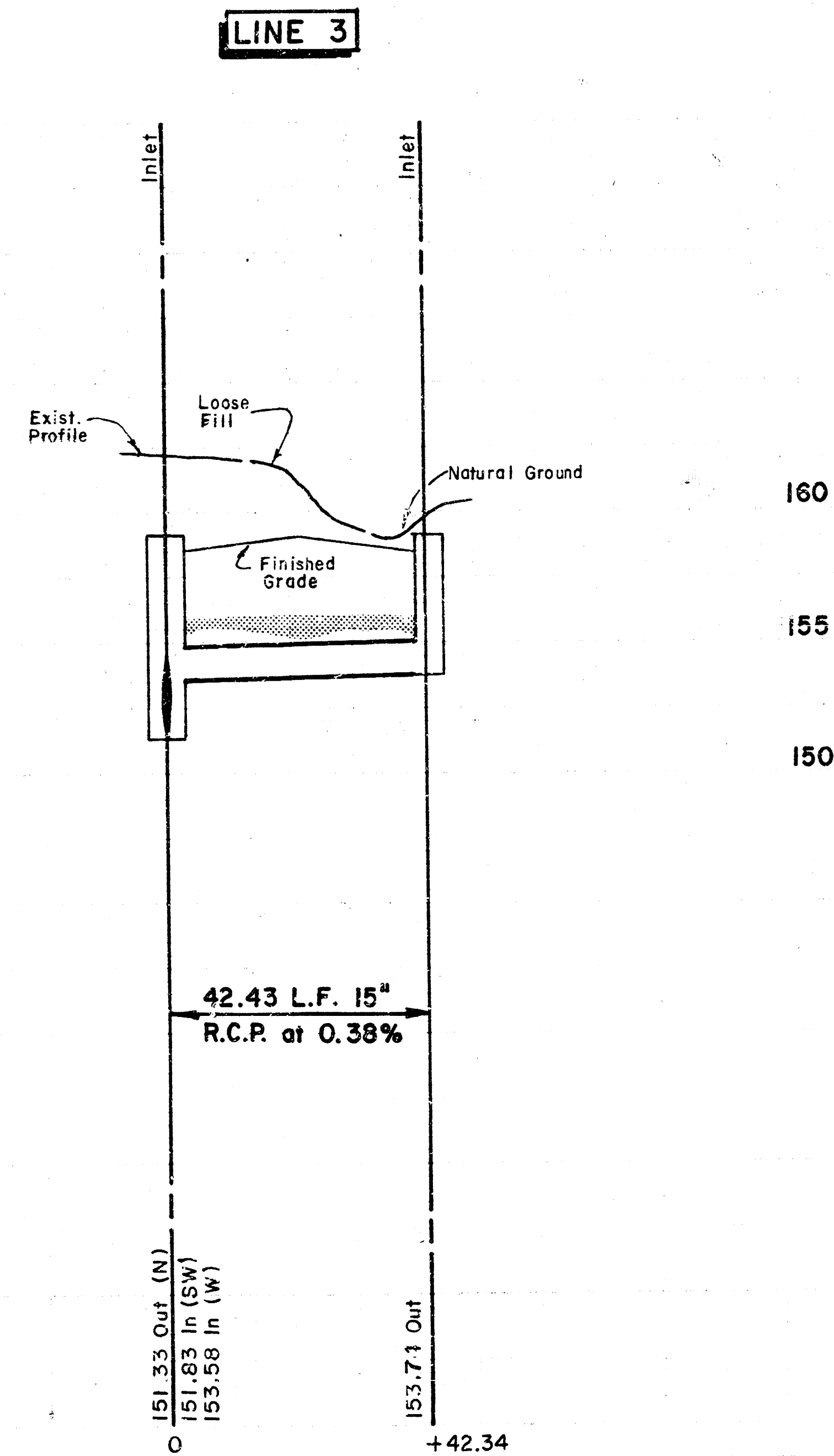
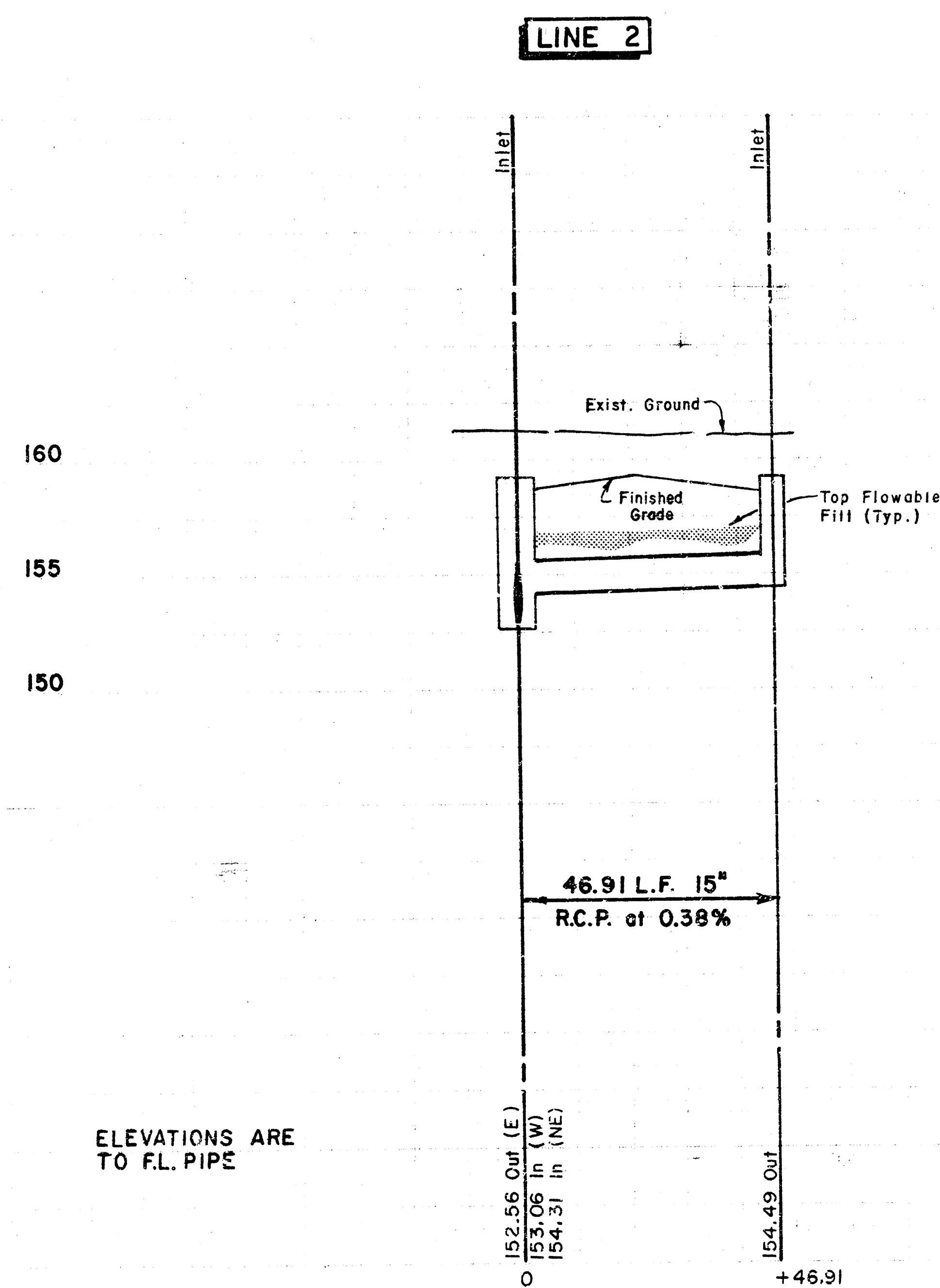
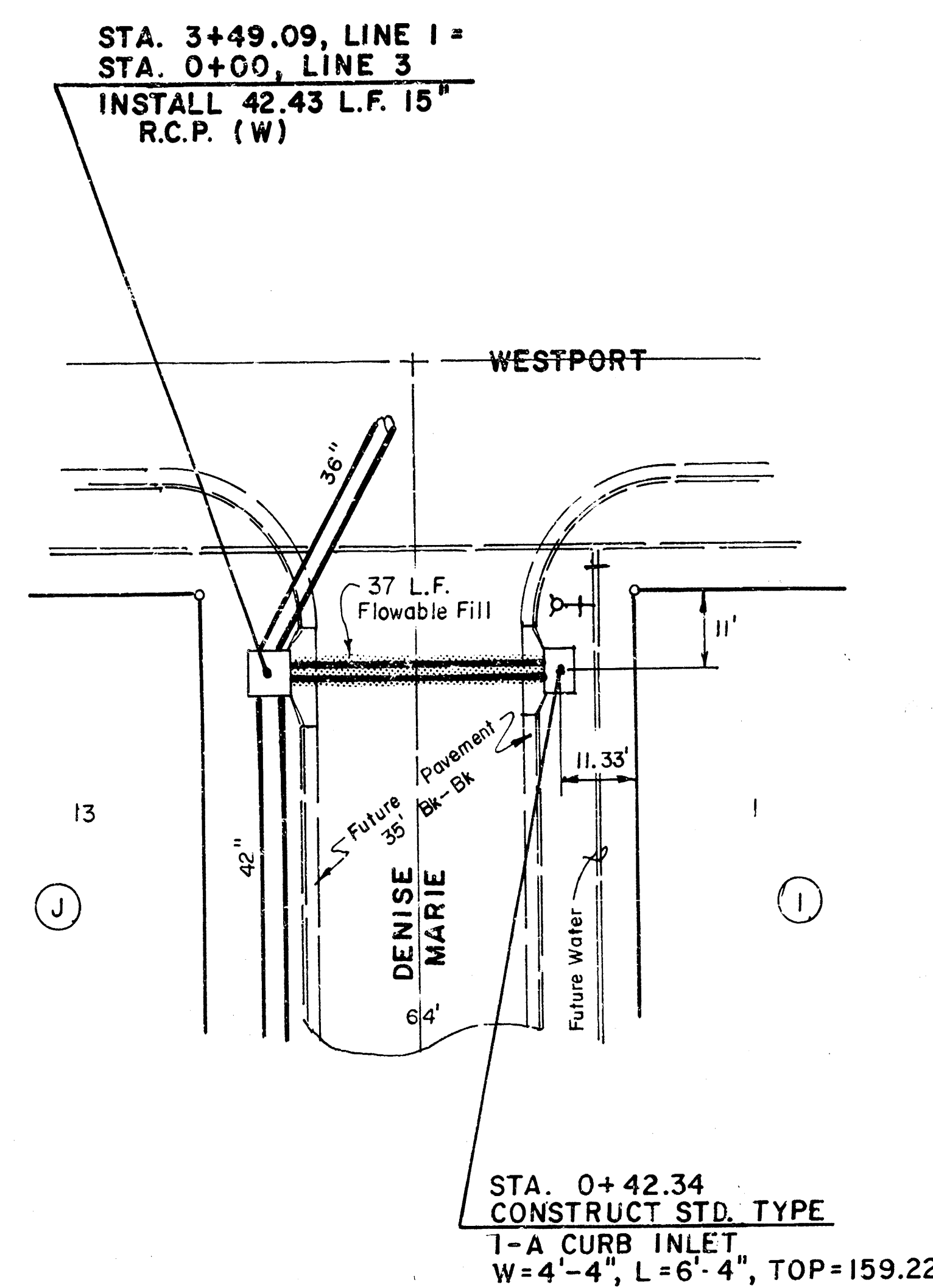




ELEVATIONS ARE TO TOP PIPE.

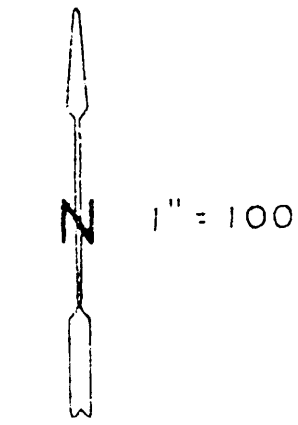


ELEVATIONS ARE TO F.L. PIPE



SUNRIDGE 2ND ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



BENCHMARK
City Plat - 77 S. 34th E. 1/4 of
the NW 1/4 of Sec. 7, T.27S. R.1W.
Sec. 7, T.27S. R.1W.
Elev. = 1353.48 M.S.L.
= 172.68 City Feet

