

SEE SHEET 2. 24

N 11°30'36" E
90.88'

CAUTION:
EXISTING UTILITIES AND UNDERGROUND FACILITIES OF THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION AND AS-BUILT PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND WILL BE RESPONSIBLE FOR ANY DAMAGE TO SAID UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION.

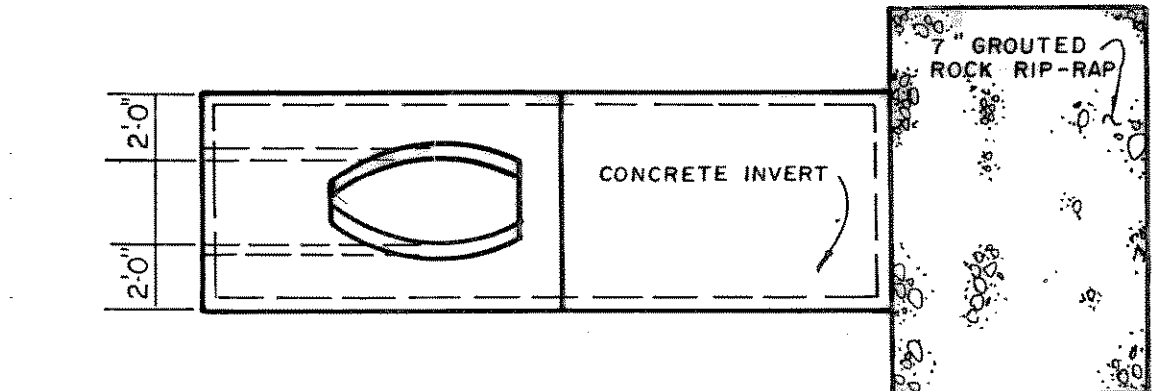
STORM SEWER CURVE DATA

NO.	DELTA	RADIUS	TANGENT	LENGTH
1	16°37'34"	600.00'	87.67'	174.11'
2	17°16'02"	150.00'	22.78'	45.21'
3	17°19'29"	404.00'	61.55'	122.16'
4	16°31'52"	250.00'	36.32'	72.13'
5	27°46'30"	140.00'	34.61'	67.87'

NOTE:
STORM DRAIN PIPE MATERIAL MAY VARY FROM R.C.P. ON LINES EXCEPT STORM DRAIN LINE "A". ALTERNATE MATERIAL SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.

1 REMOVE 20 L.F. EXIST. 8" SAN. SEW. & REPLACE WITH 20 L.F. CLASS 200 D.I. PIPE SECTION THROUGH JUNCTION BOX

CAUTION:
EXISTING WATERLINE IN THIS AREA. FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION.

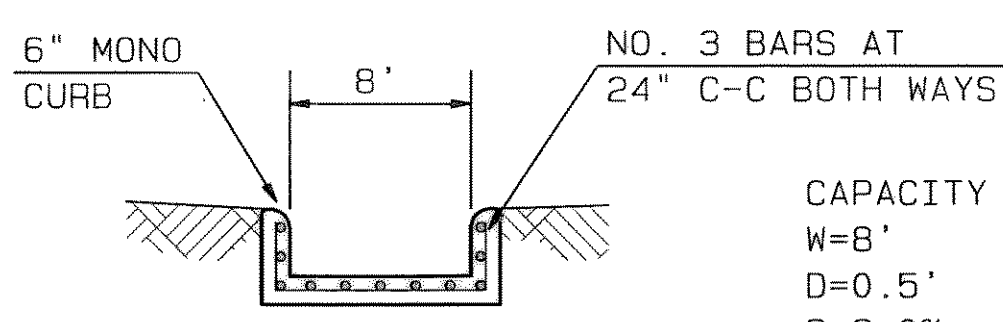


ROCK RIP-RAP GRADATION

STONE SIZE	PERCENT SMALLER
18"	100
12"	50-65
6"	15-40
3"	0-15

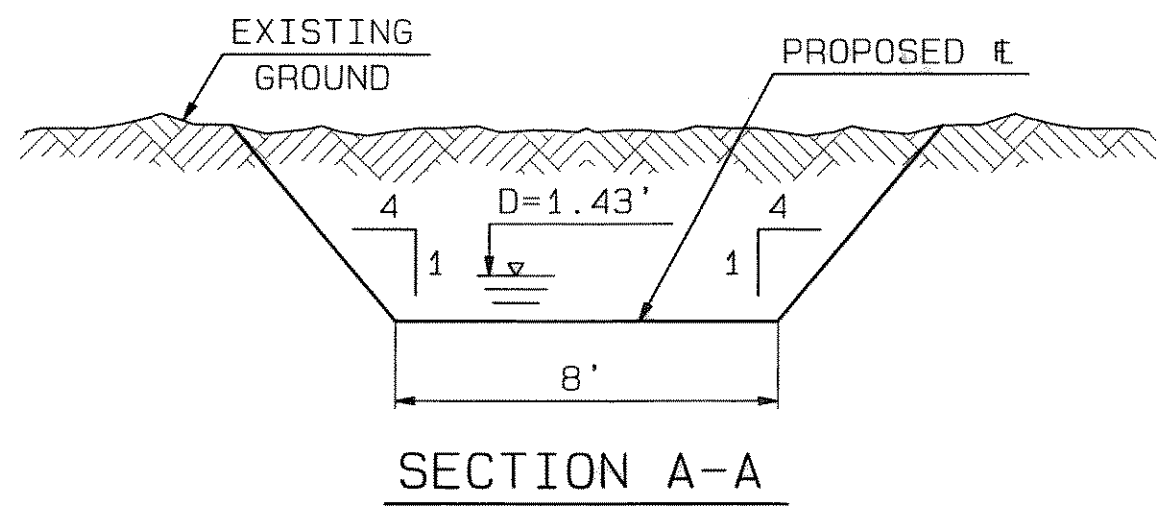
PLAN
NTS

NOTE: 1.) GROUT SHALL BE 2500 PSI COMPRESSIVE STRENGTH
2.) ROCK RIP-RAP SHALL BE COMPACTED INTO THE EARTH TO MATCH THE FLOW LINE OF THE CHANNEL.
3.) LIMITS OF GROUTED ROCK RIP-RAP SHALL BE AS SHOWN ON THE PLANS.



SECTION B-B
N.T.S.

CAPACITY ANALYSIS
W=8'
D=0.5'
S=9.0%
 $Q = \frac{1}{48} AR^{2/3} S^{1/2}$
 $Q = \frac{1}{48} (4) (0.09)^{1/2}$
Q=46.59 CFS



SECTION A-A

