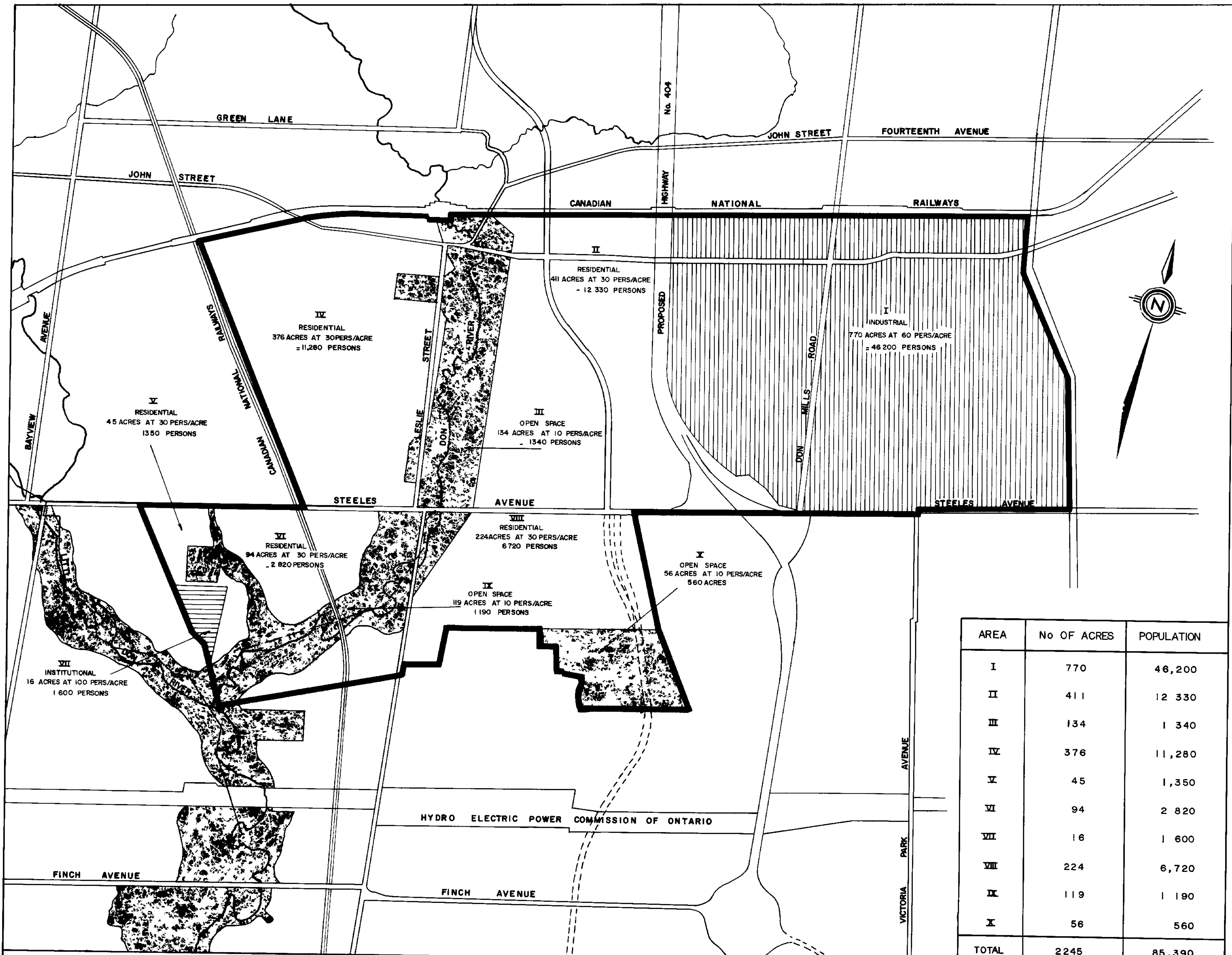


APPENDIX C
Characterization and Development of Alternatives
(Phase 2)

APPENDIX C3-1
Leslie-Steeles Sanitary Sewer
Engineering Drawings (1966)



AREA	No OF ACRES	POPULATION
I	770	46,200
II	411	12,330
III	134	1,340
IV	376	11,280
V	45	1,350
VI	94	2,820
VII	16	1,600
VIII	224	6,720
IX	119	1,190
X	56	560
TOTAL	2245	85,390

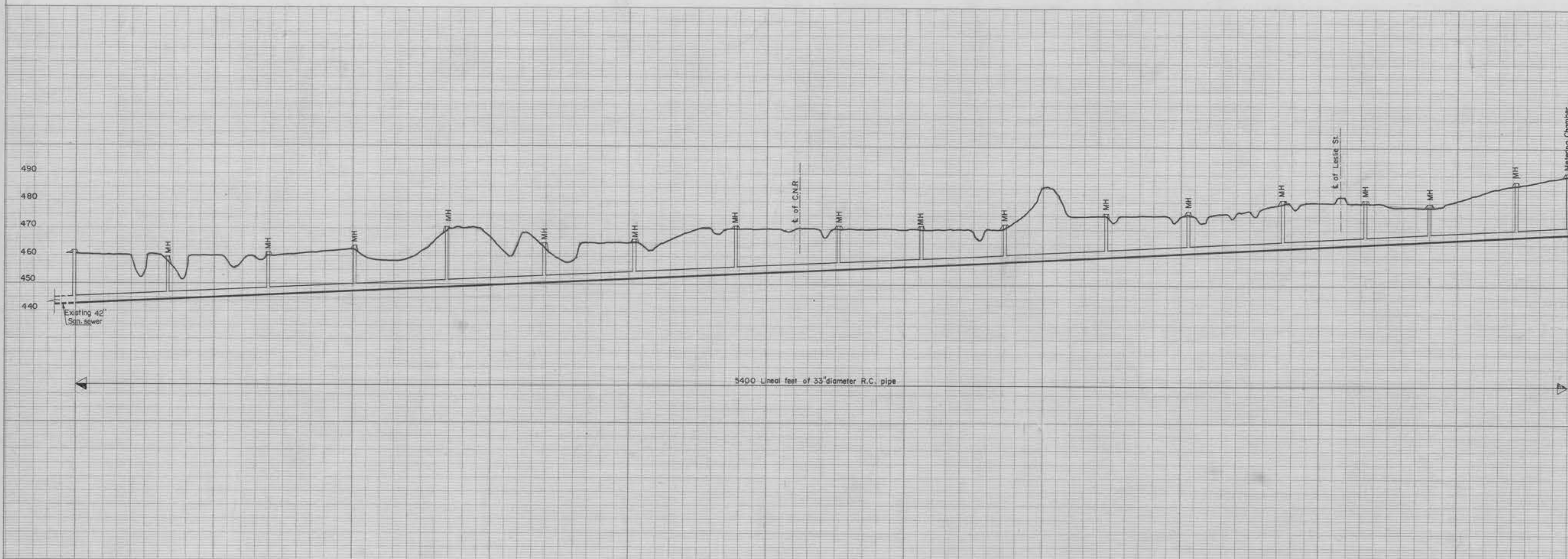
MUNICIPALITY OF METROPOLITAN TORONTO
DEPARTMENT OF WORKS — ENGINEERING DIVISION

STEELES & LESLIE SANITARY TRUNK SEWER DRAINAGE AREA PLAN

DATE AUGUST 1967
SCALE 1" = 1000'

DRAWN BY *[Signature]*
APPROVED BY *[Signature]*

DRAWING NO
1268-C-301



MUNICIPALITY OF METROPOLITAN TORONTO
DEPARTMENT OF WORKS-ENGINEERING DIVISION

LESLIE-STEELES SANITARY TRUNK SEWER
GENERAL PLAN

FIELD BOOKS. 368
SCALES: HORIZ. 1" = 200'
VERT. 1" = 20'

DESIGNED *[Signature]*
DRAWN *[Signature]*
CHECKED

DIRECTOR OF ENGINEERING

DIRECTOR WATER POLLUTION CONTROL

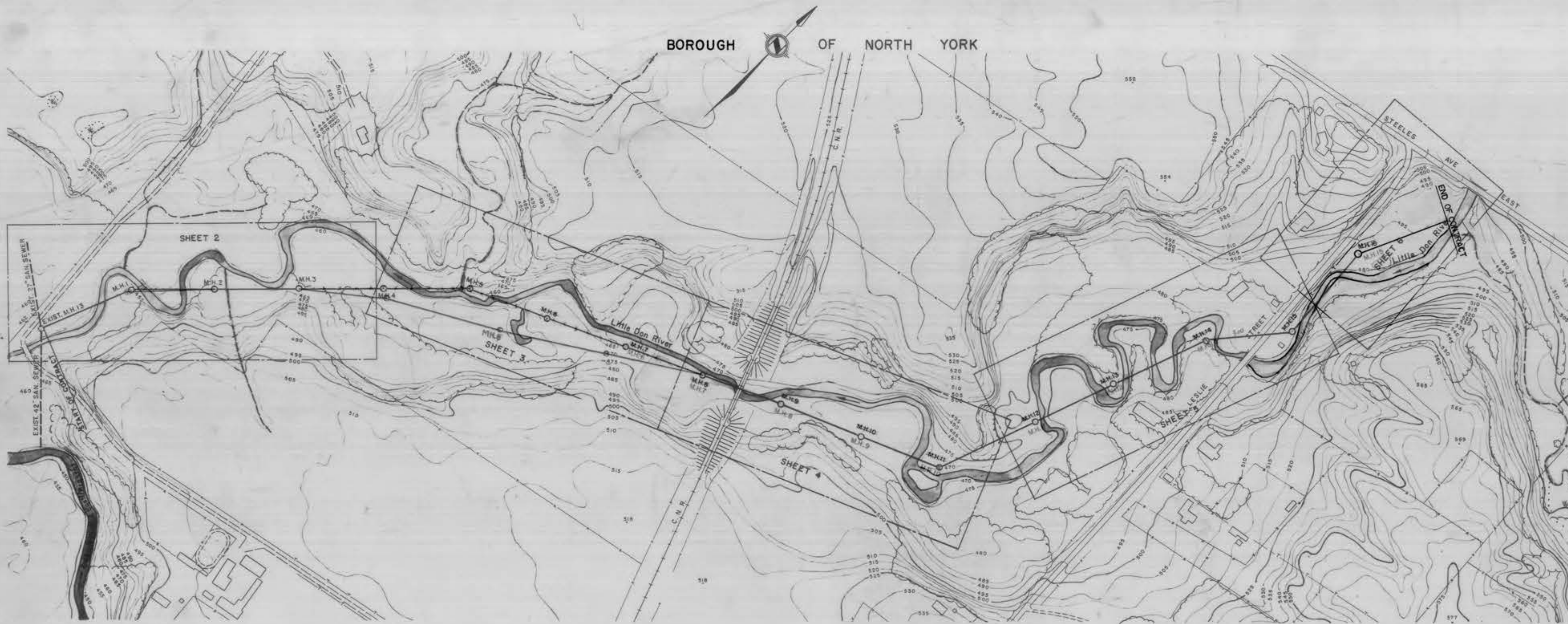
COMMISSIONER OF WORKS

DATE
DEC. 1966

CONTRACT
SHEET

DRAWING NUMBER
1268-D-6634

BOROUGH OF NORTH YORK



BENCH MARKS

T-71: STEELES AVE BRIDGE OVER EAST DON RIVER, 230 FT. EAST OF LESLIE ST. TABLE IN NORTHERLY FACE OF CONCRETE GUARD RAIL POST ON SOUTHERLY SIDE AND AT EASTERLY END OF BRIDGE, 2 FT. WESTERLY EASTERLY END AND 12 INCHES ABOVE CURB. N^o T-71 ELEVATION 512.392 (GEODETIC)

T-121: ORDER OF ST. JOSEPH MOTHER HOUSE ON EASTERLY SIDE OF BAYVIEW AVE AND 0.2 MILE SOUTHERLY FROM STEELES AVE; TABLE IN WESTERLY FACE OF STONE FOUNDATION WALL OF MOST SOUTHWESTERLY WING OF BUILDING, 12 INCHES FROM SOUTHWEST CORNER AND 3 INCHES BELOW STONE WORK. N^o T-121 ELEVATION 543.307 (GEODETIC)

BOREHOLES

BOREHOLES HAVE BEEN TAKEN WHERE INDICATED ON DRAWINGS AND THE COMPLETE BOREHOLE REPORTS TOGETHER WITH 2" SPLIT SPOON SAMPLES MAY BE INSPECTED AT THE OFFICE OF THE METROPOLITAN TORONTO DEPARTMENT OF WORKS, CITY HALL, ON REQUEST. THE MUNICIPALITY ACCEPTS NO RESPONSIBILITY FOR THEIR ACCURACY AND THE CONTRACTOR IS TO SATISFY HIMSELF AS TO THE GROUND CONDITIONS BEFORE SUBMITTING A TENDER. FIGURES IN THE BOREHOLE COLUMNS INDICATE THE NUMBER OF BLOWS REQUIRED TO DRIVE THE SAMPLING SPOON ONE FOOT USING A 140 LB WEIGHT FALLING 30'.

MANHOLES

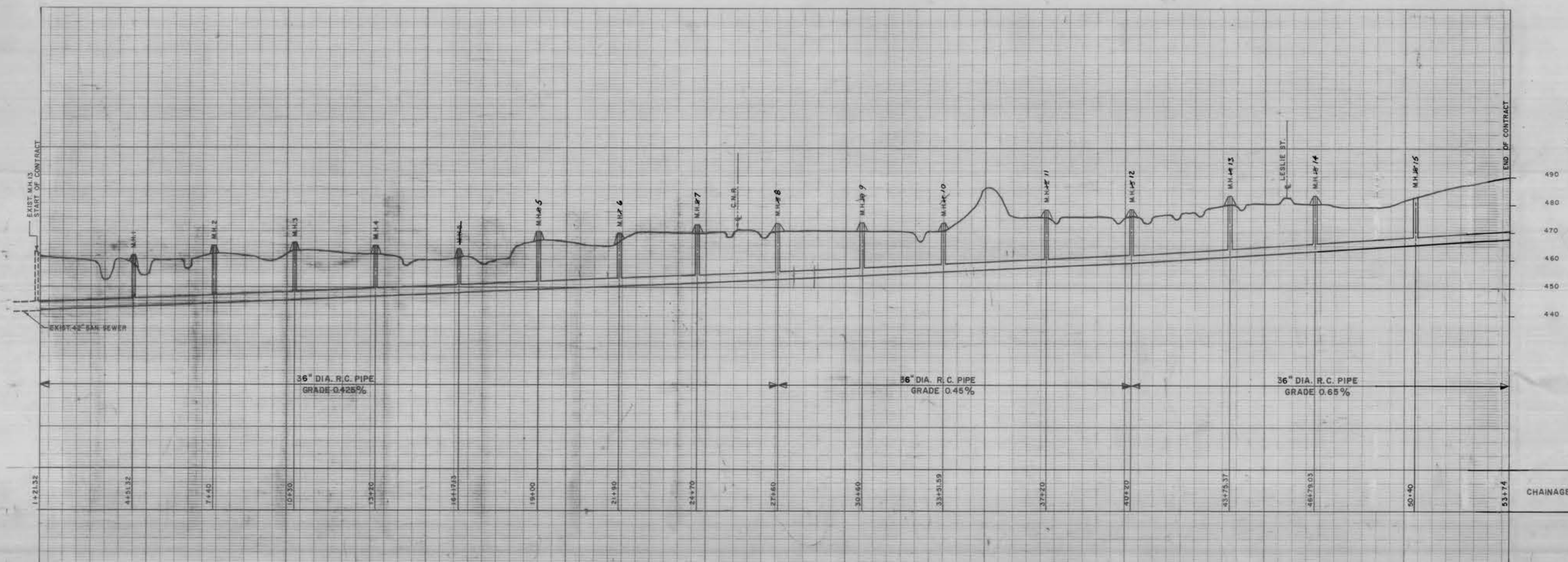
ALL SHAFTS OF MANHOLES WILL FINISH A MINIMUM OF 0'-6" AND A MAXIMUM OF 1'-6" BELOW FINAL ELEVATION. THE REMAINING DISTANCE TO BE CONSTRUCTED OF BRICKWORK 2'-2" DIA. AS SPECIFIED. ALL MANHOLE FRAMES AND COVERS WILL BE SUPPLIED BY THE MUNICIPALITY AT ONE OF ITS YARDS AND ARE TO BE HAULED BY THE CONTRACTOR AT HIS OWN EXPENSE.

QUANTITIES

NON-CYLINDER REINFORCED CONCRETE PRESSURE PIPE A.W.W.A.-C 302

36" DIA. PIPE CLASS V 5,189'
LENGTH THROUGH 16 MANHOLES 64'
TOTAL LENGTH OF CONTRACT 5,253'

16 STANDARD PRECAST MANHOLES
N^{os} 4, 7, 10, 13, WITH VENTILATING COVERS
N^{os} 1, 2, 3, 5, 6, 8, 9, 11, 12, 14, 15, 16 WITH NON-VENTILATING COVERS



WORKS COMMENCED _____ INSPECTOR _____
WORK COMPLETED _____ LAYOUT BY _____
FINAL MEASUREMENT _____ SUP. ENG. _____

MUNICIPALITY OF METROPOLITAN TORONTO
DEPARTMENT OF WORKS-ENGINEERING DIVISION

LESLIE-STEELES SANITARY TRUNK SEWER

FIELD BOOKS: 366

SCALES: HORIZ. 1" = 200'
VERT. 1" = 20'

DESIGNED P. L. Wang

DRAWN T. H. H. H. H. H.

CHECKED J. H. H. H. H.

DIRECTOR OF ENGINEERING

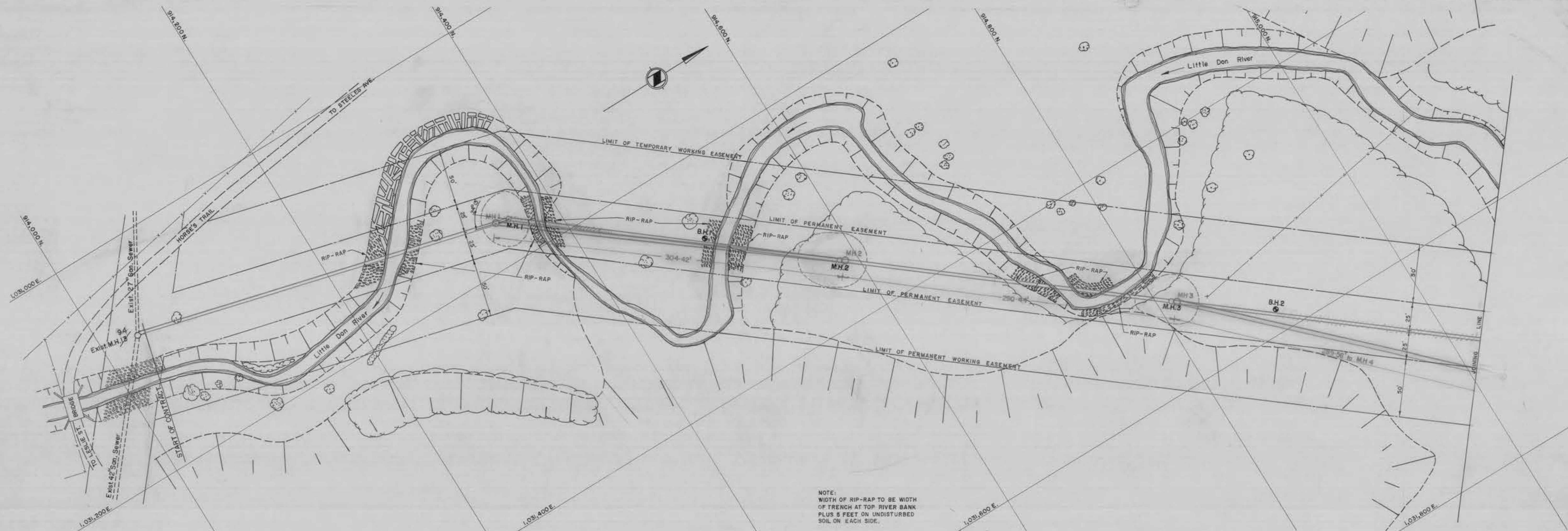
DIRECTOR WATER POLLUTION CONTROL

COMMISSIONER OF WORKS

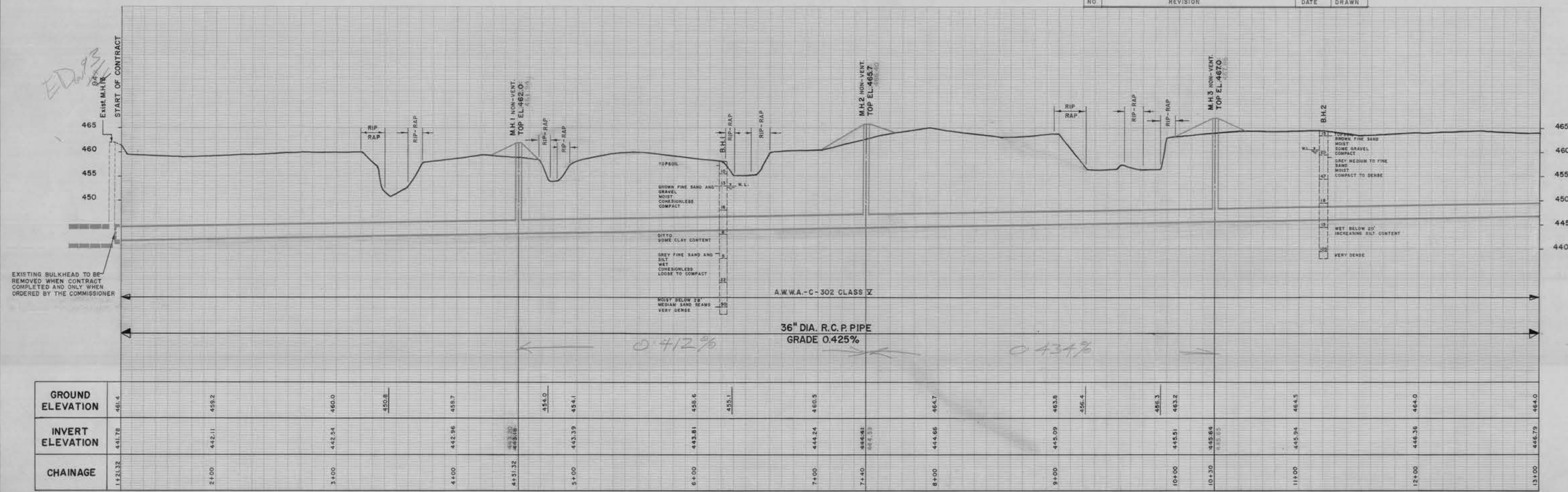
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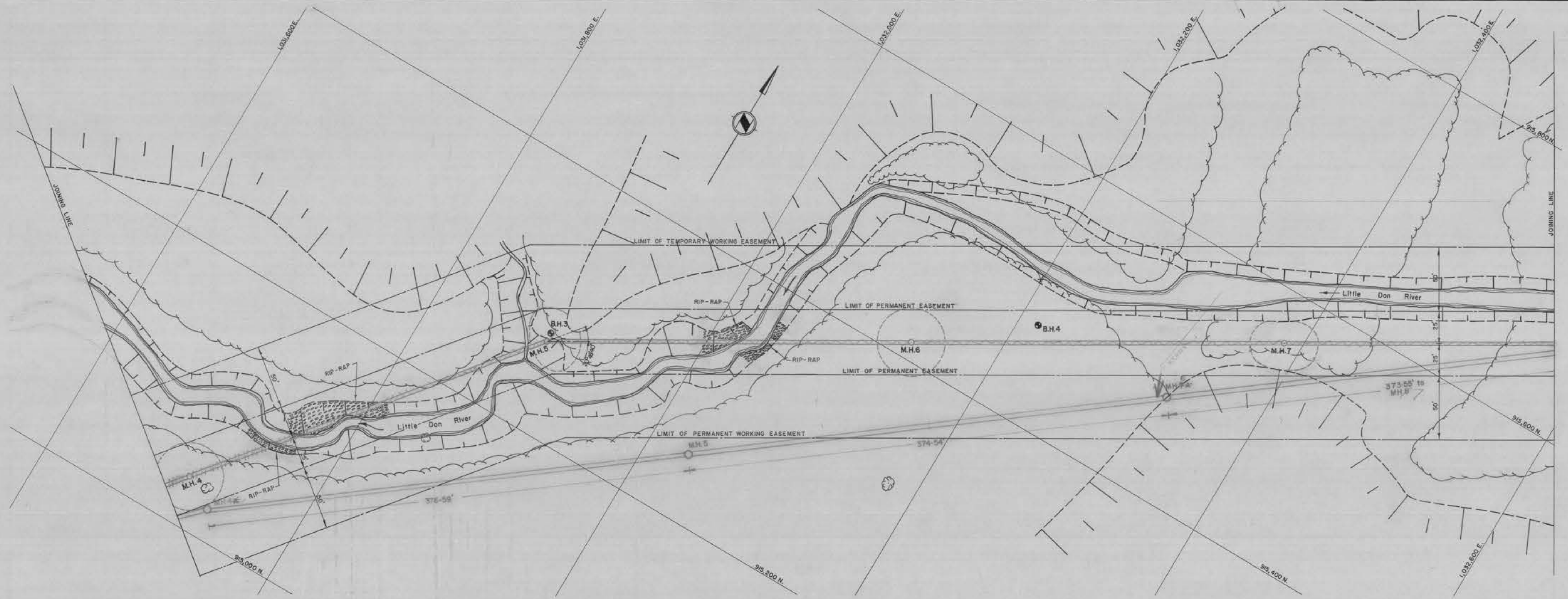
CONTRACT
D-11-68
SHEET 1 OF 3

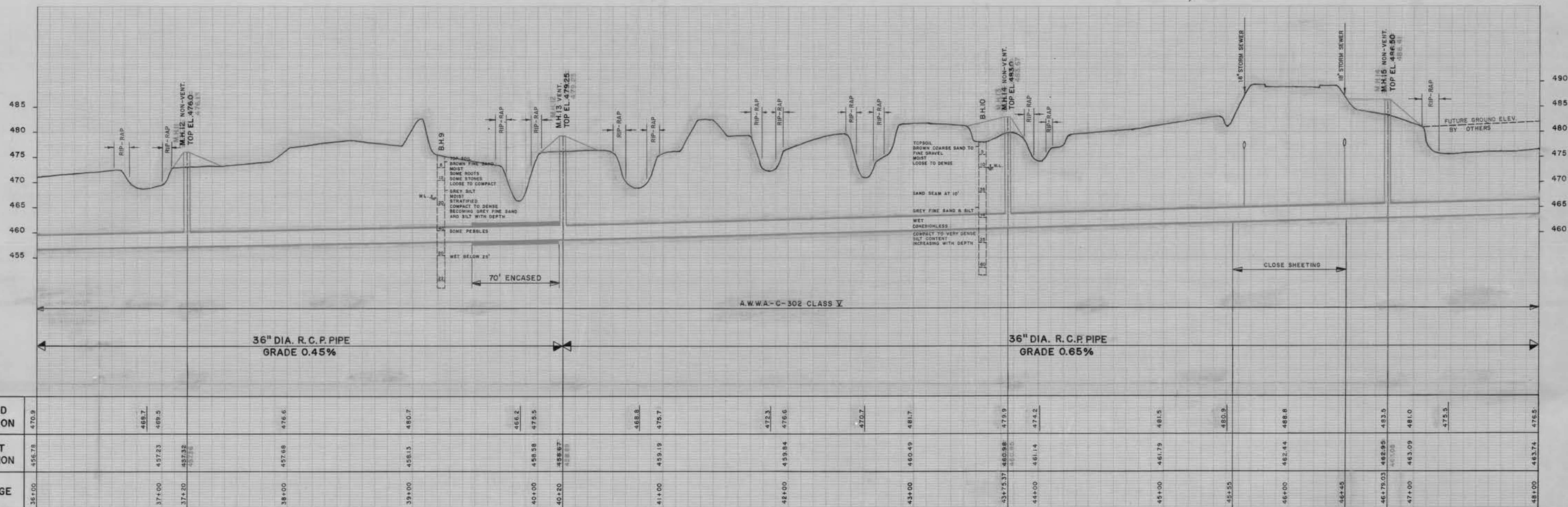
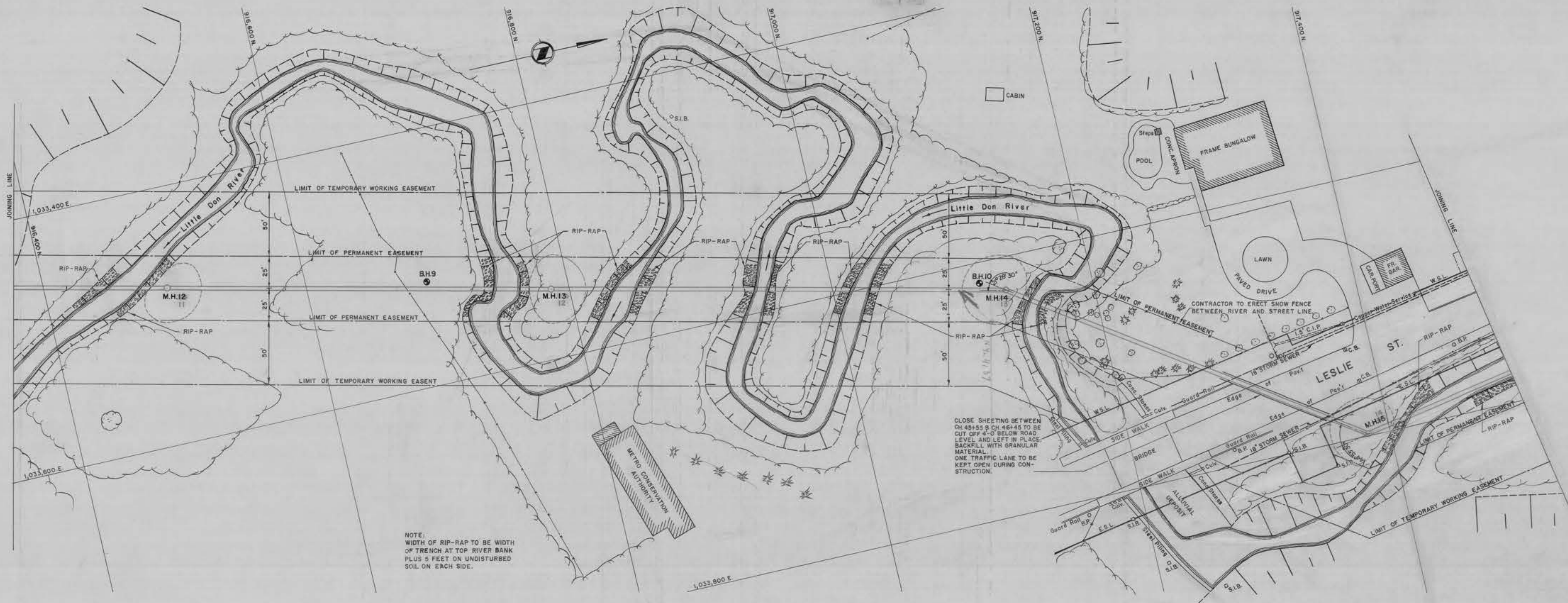
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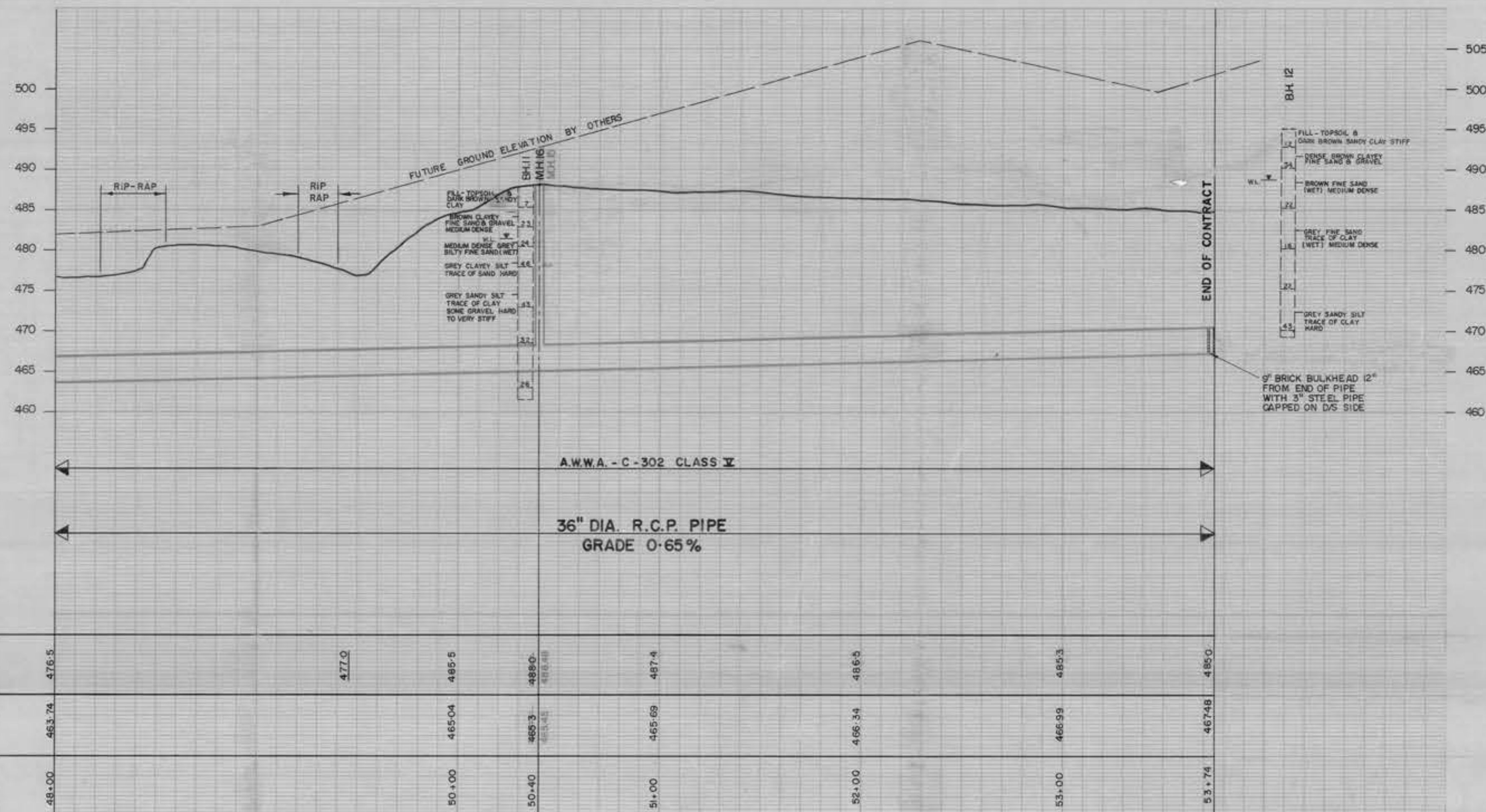


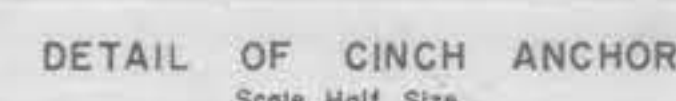
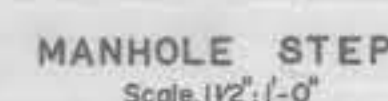
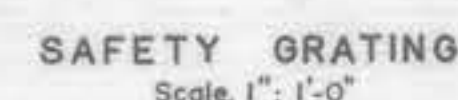
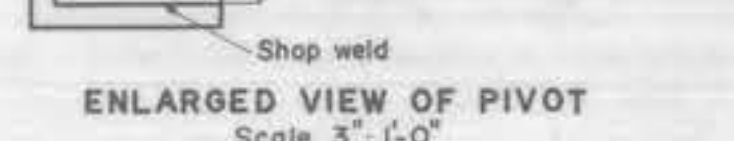
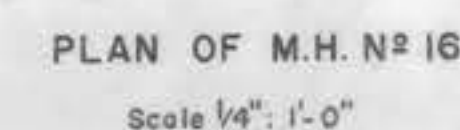
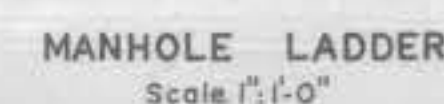
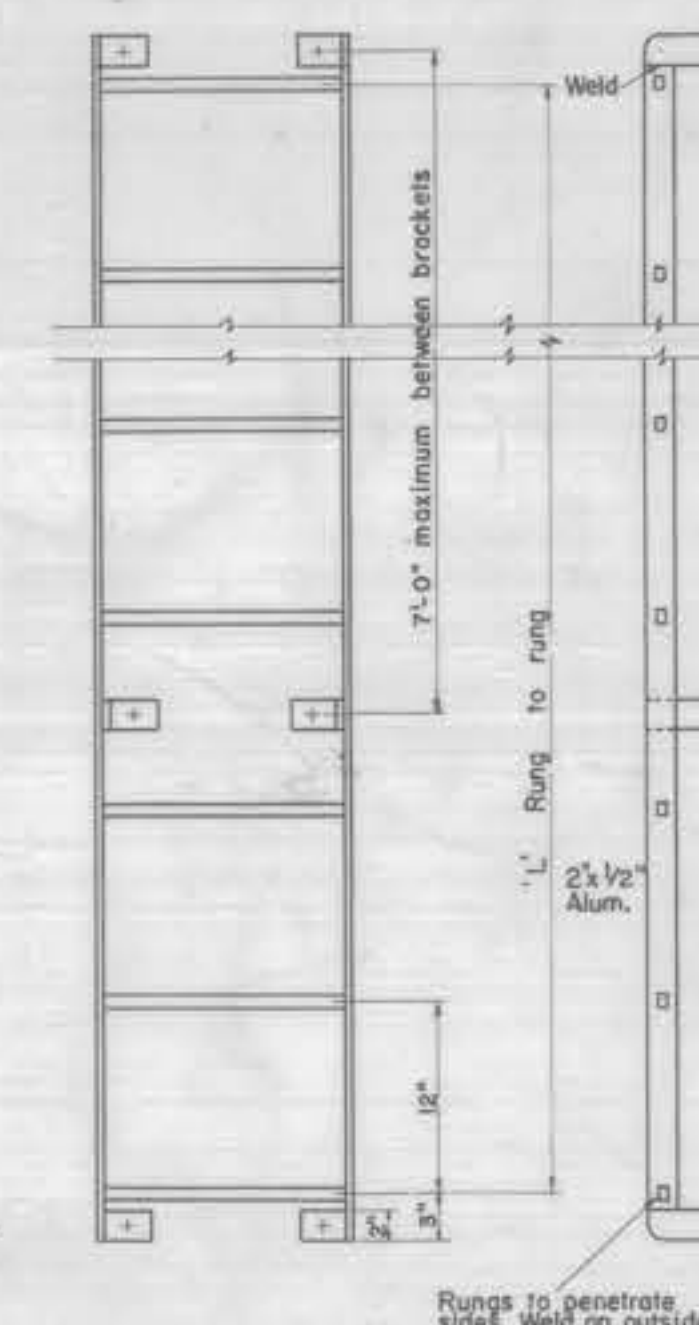
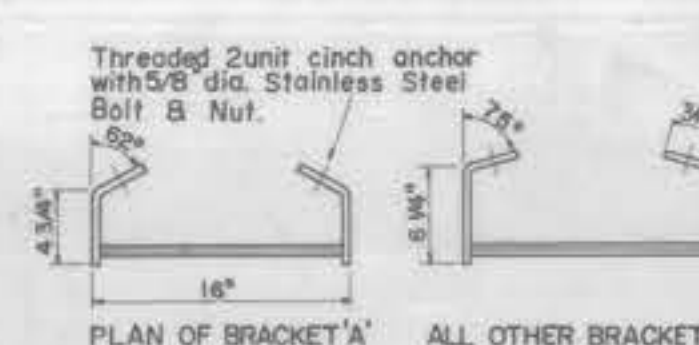
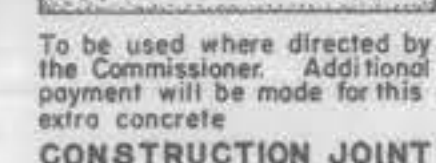
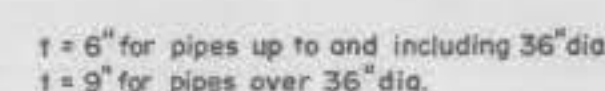
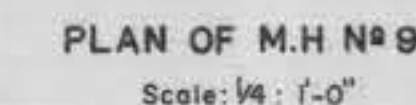
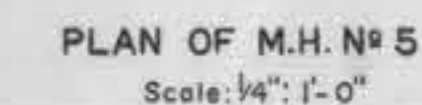
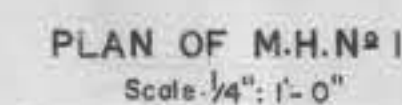
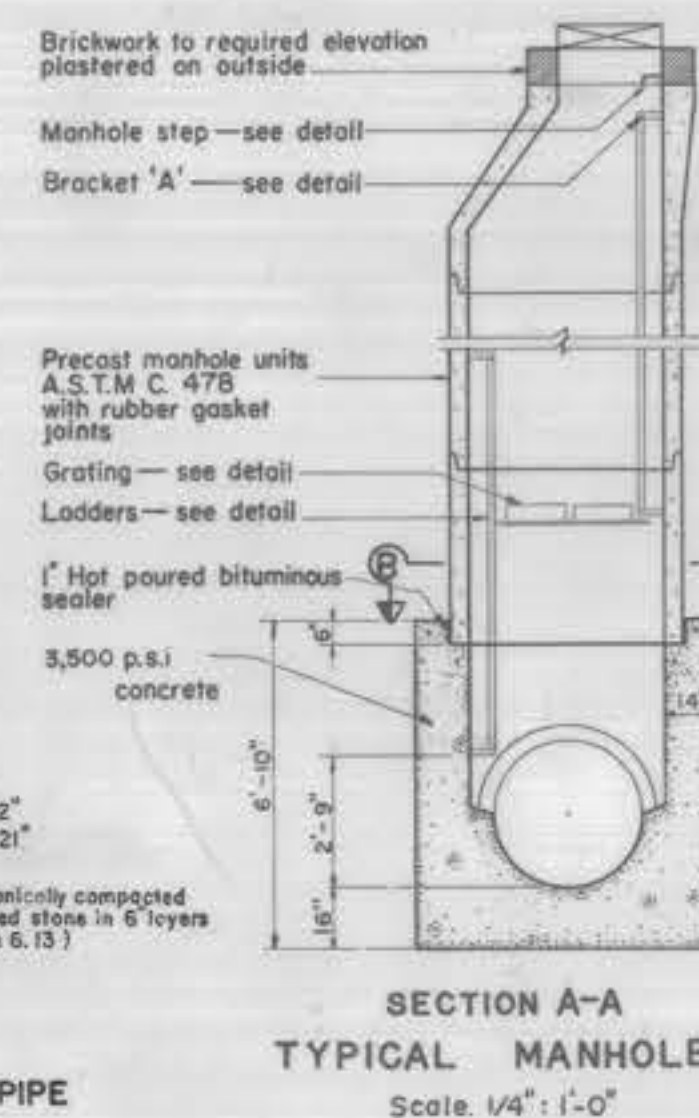
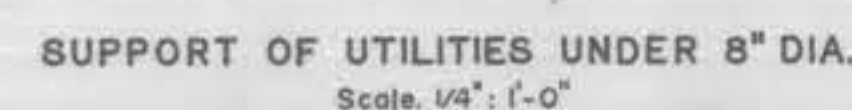
1	CHANGE M.H. NO 13 TO NO. 94	NOV 1969	J. R. W.
NO.	REVISION	DATE	DRAWN





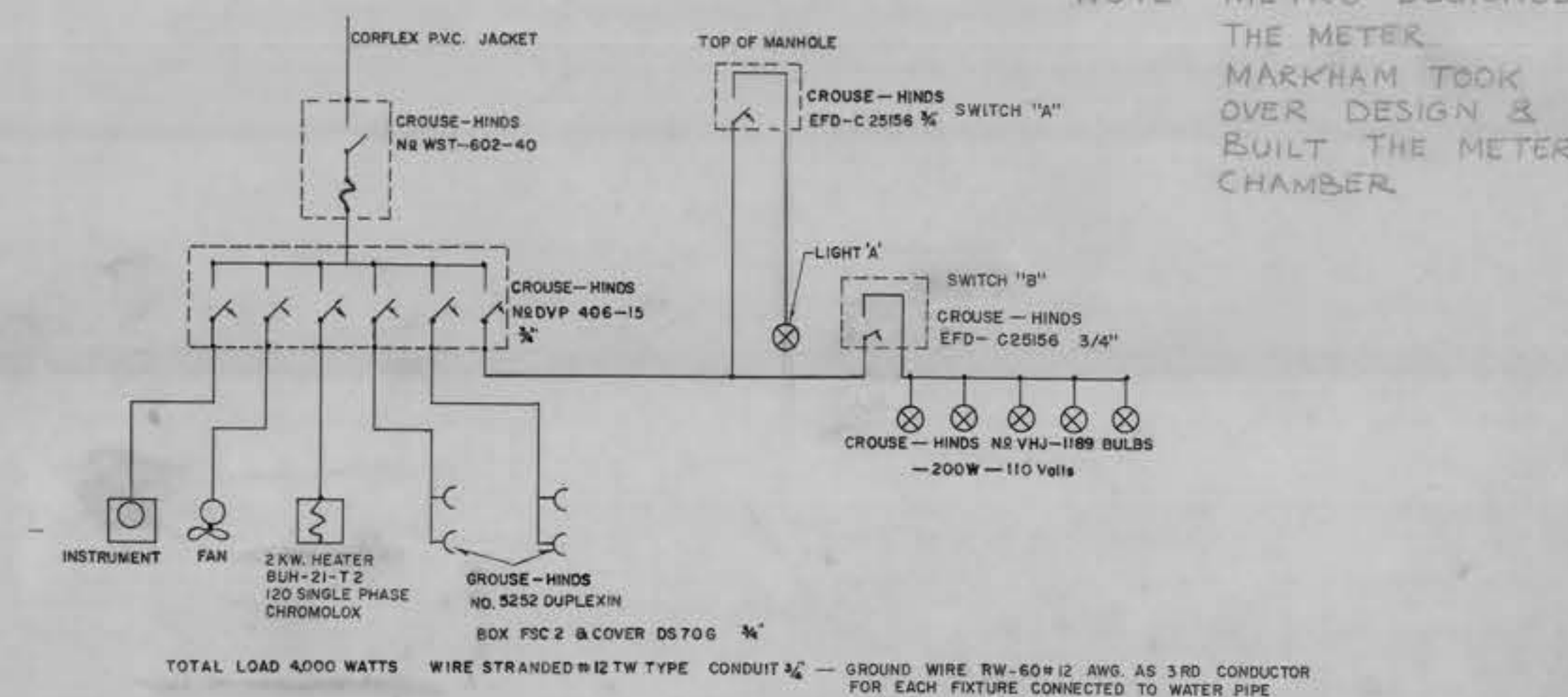
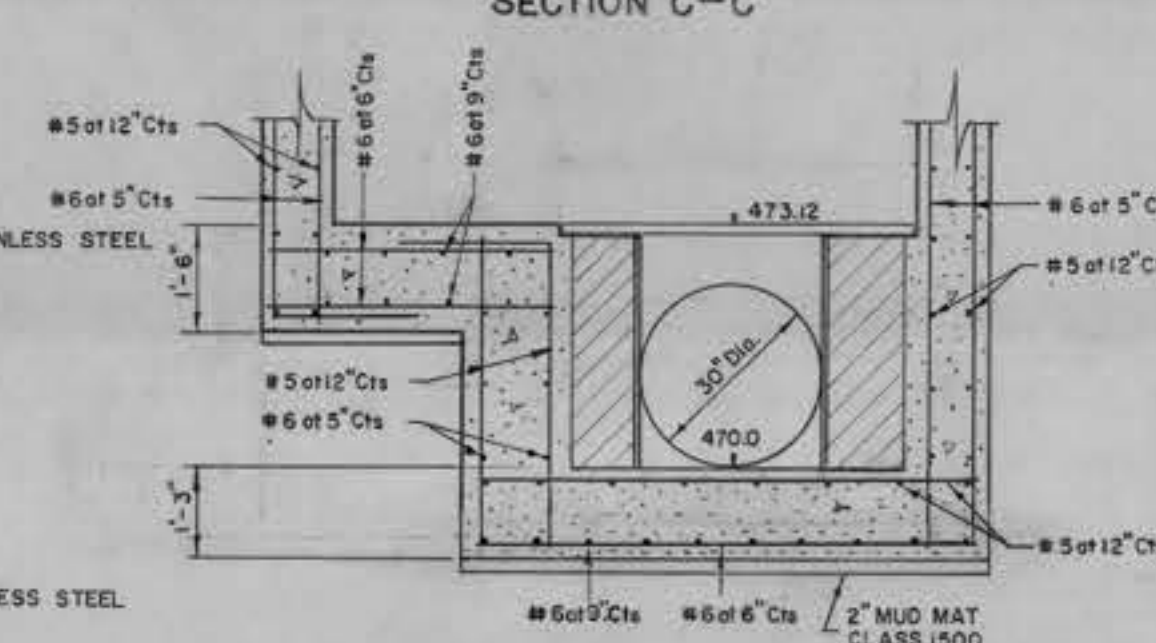
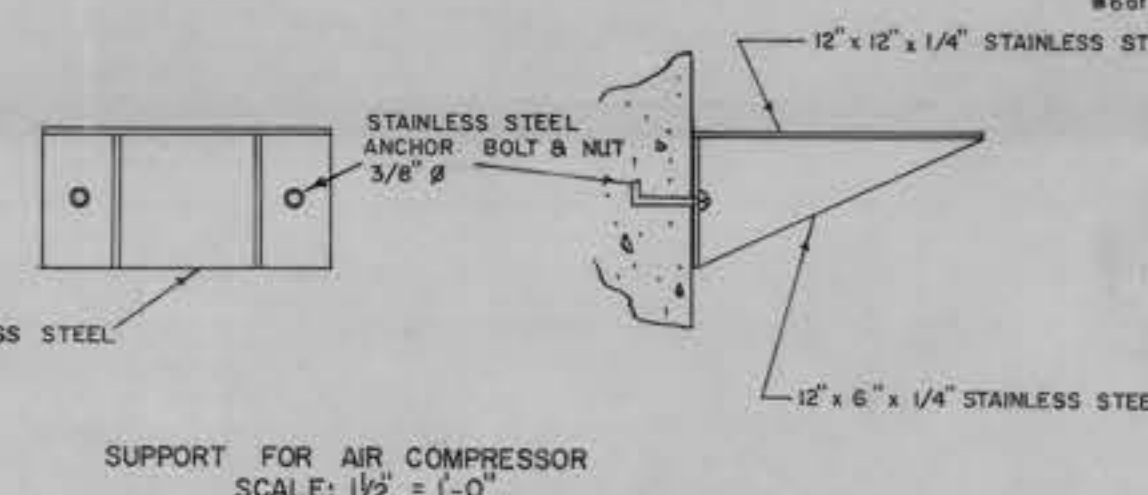
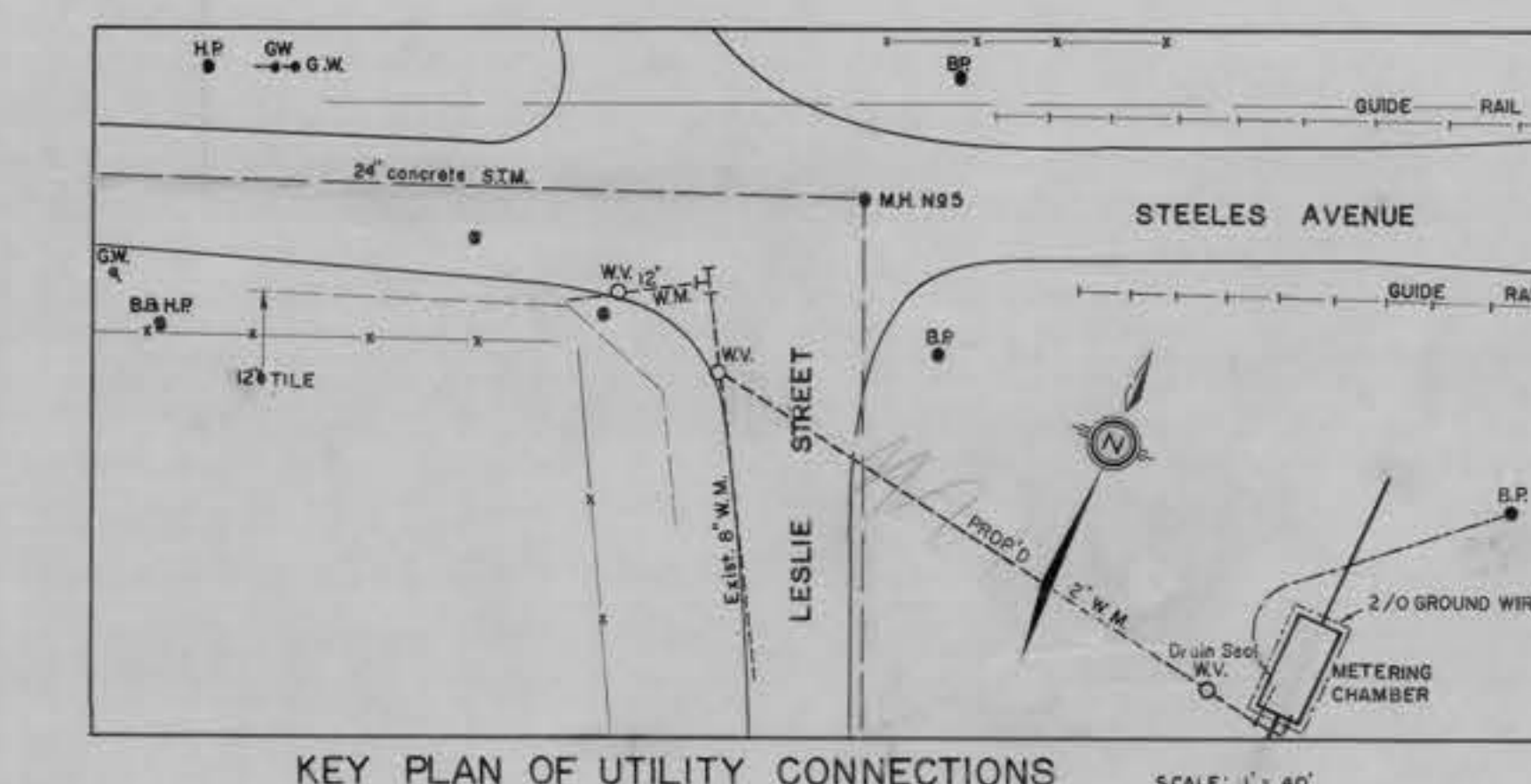
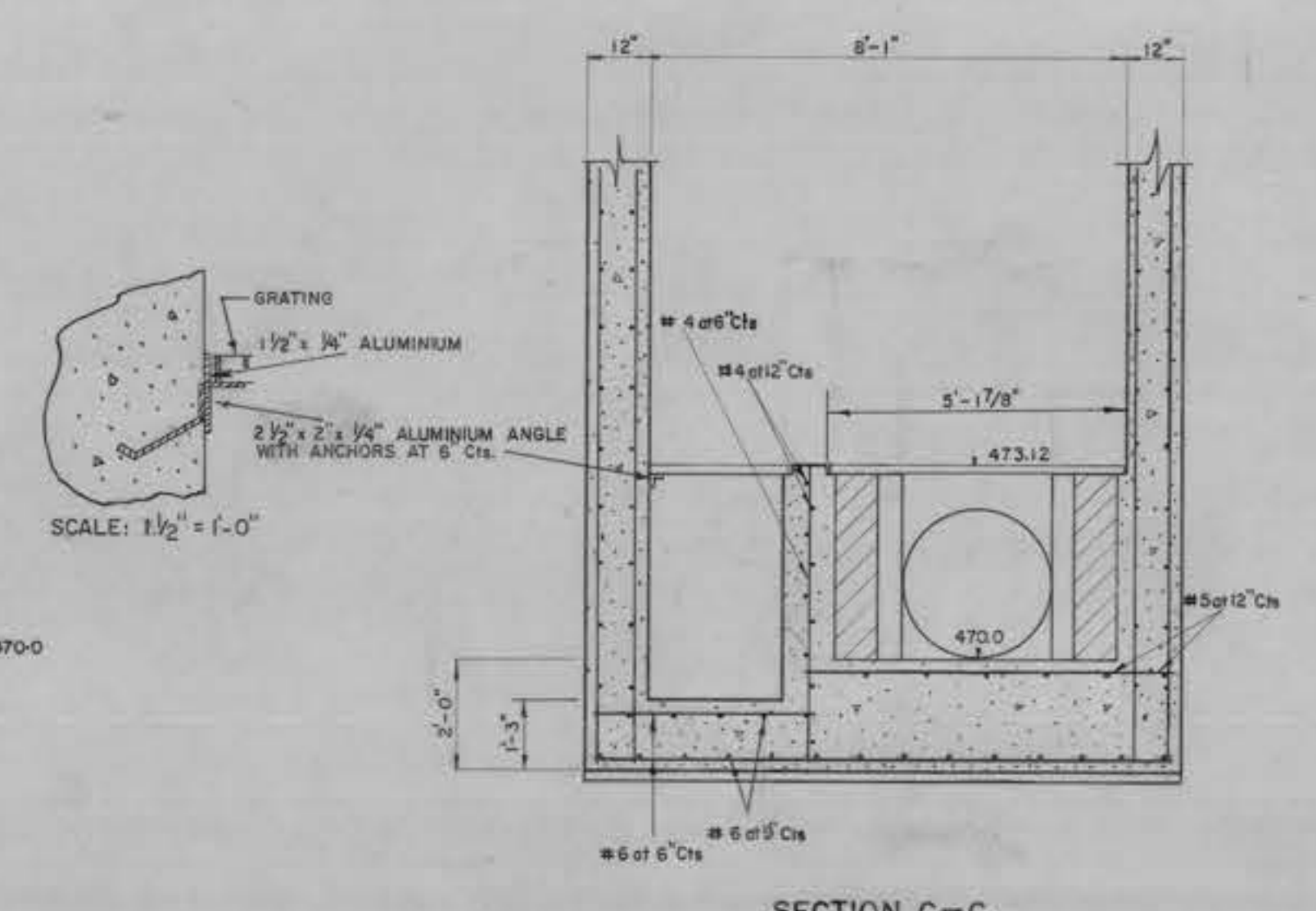
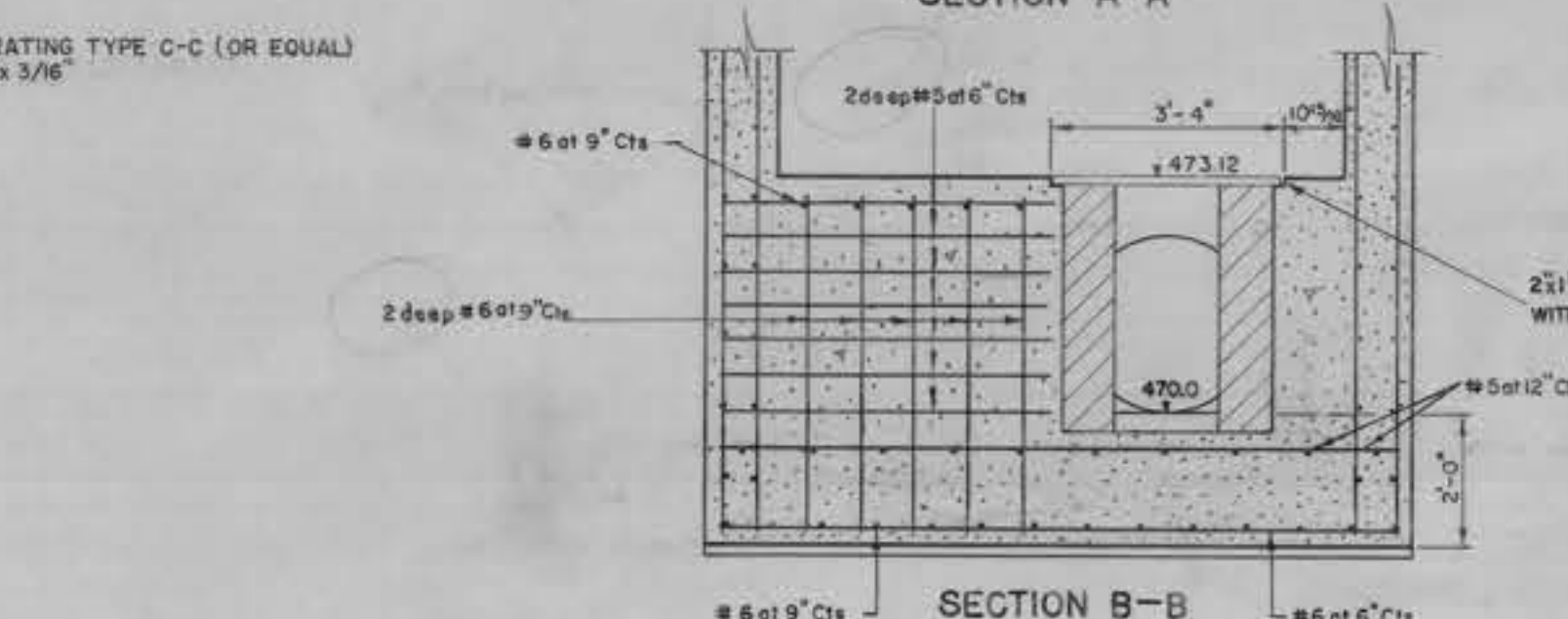
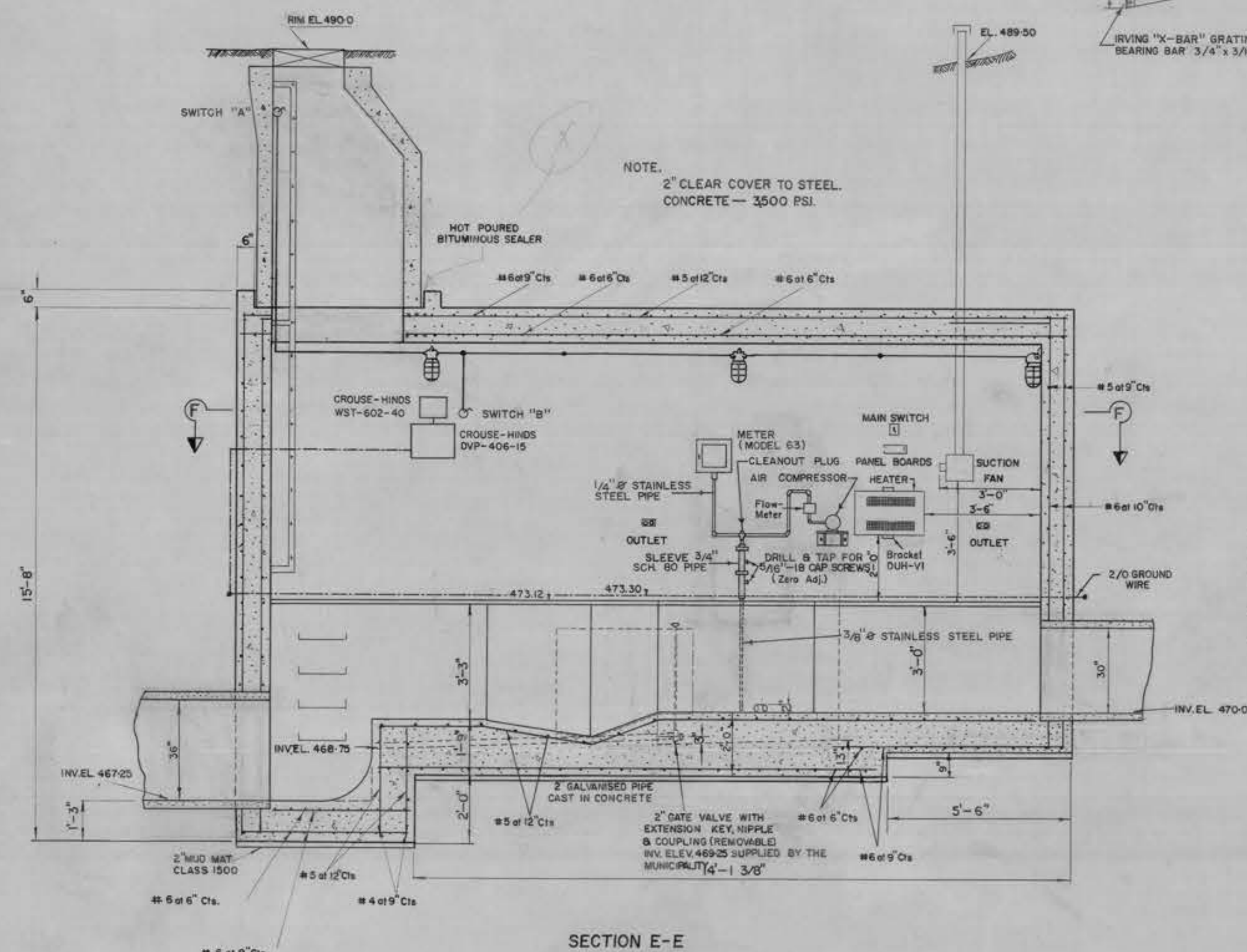
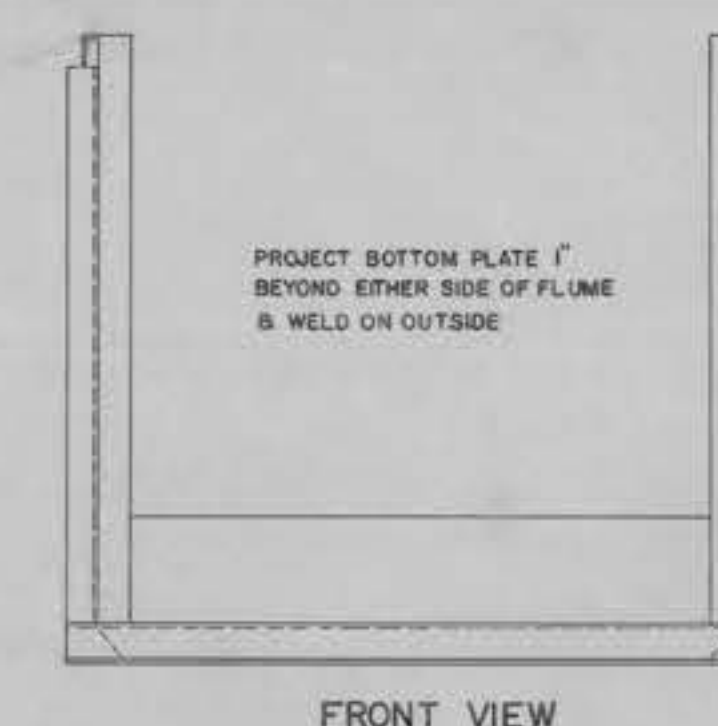
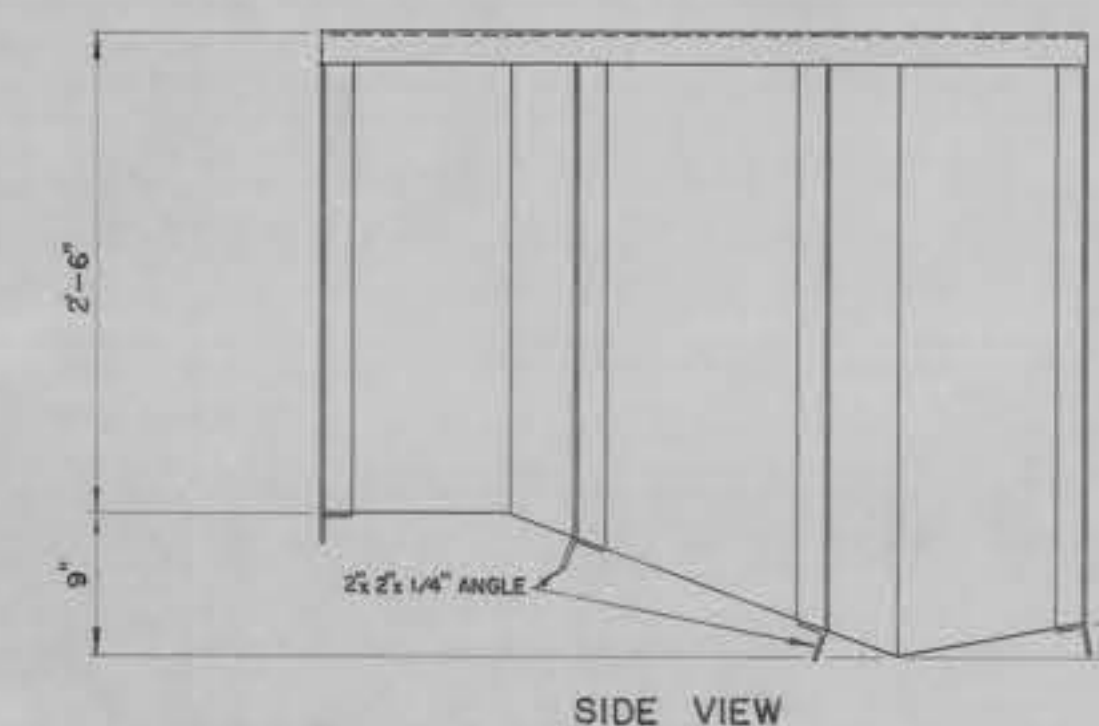
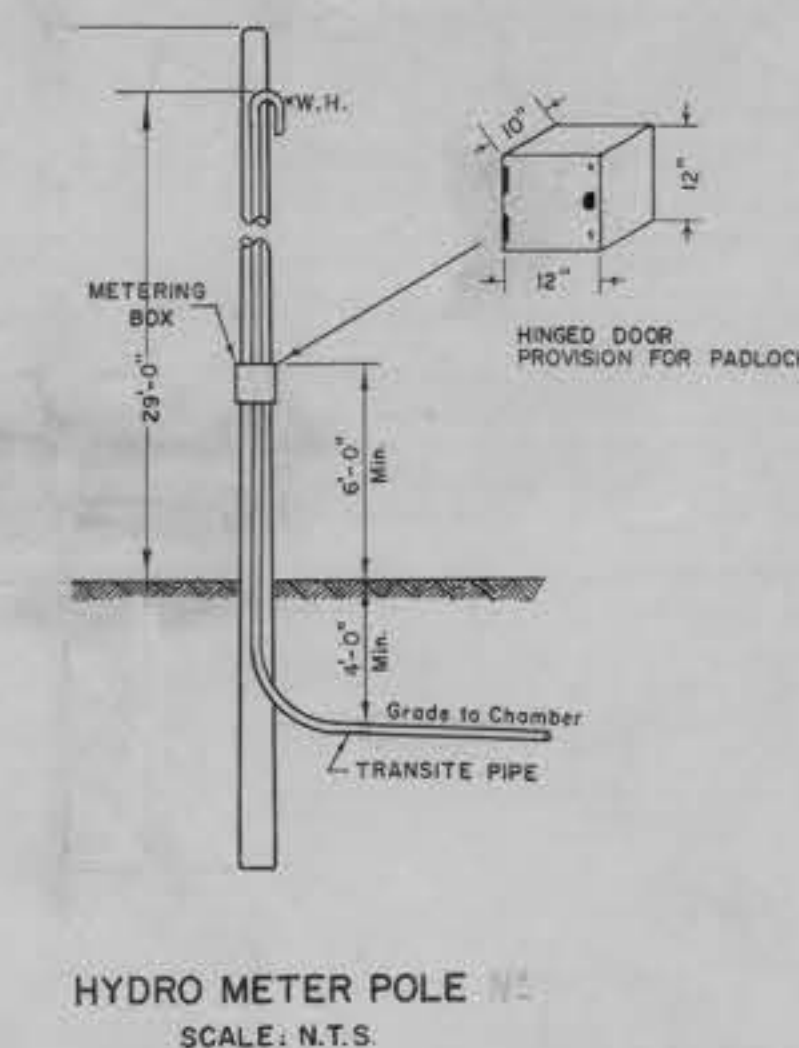
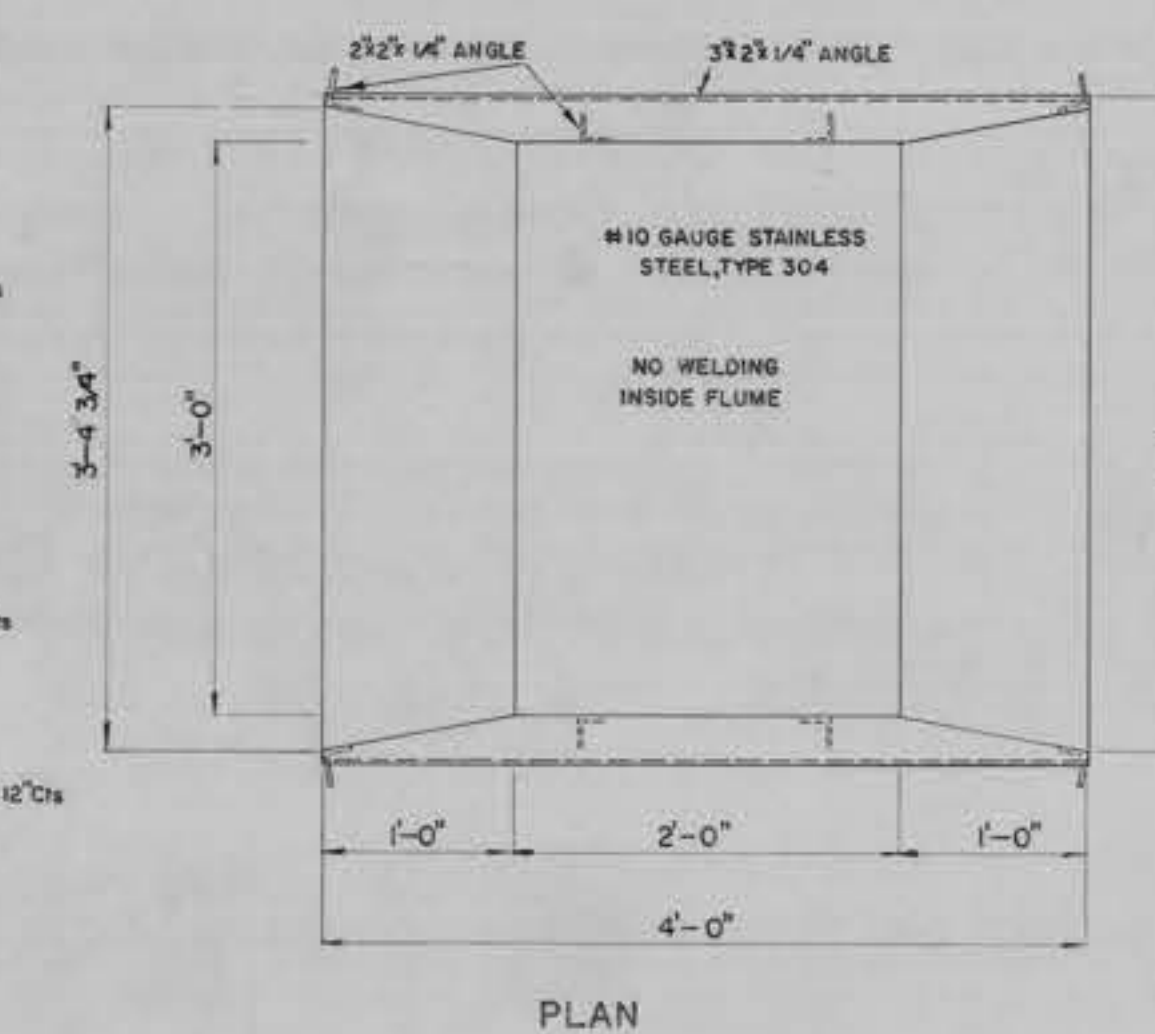
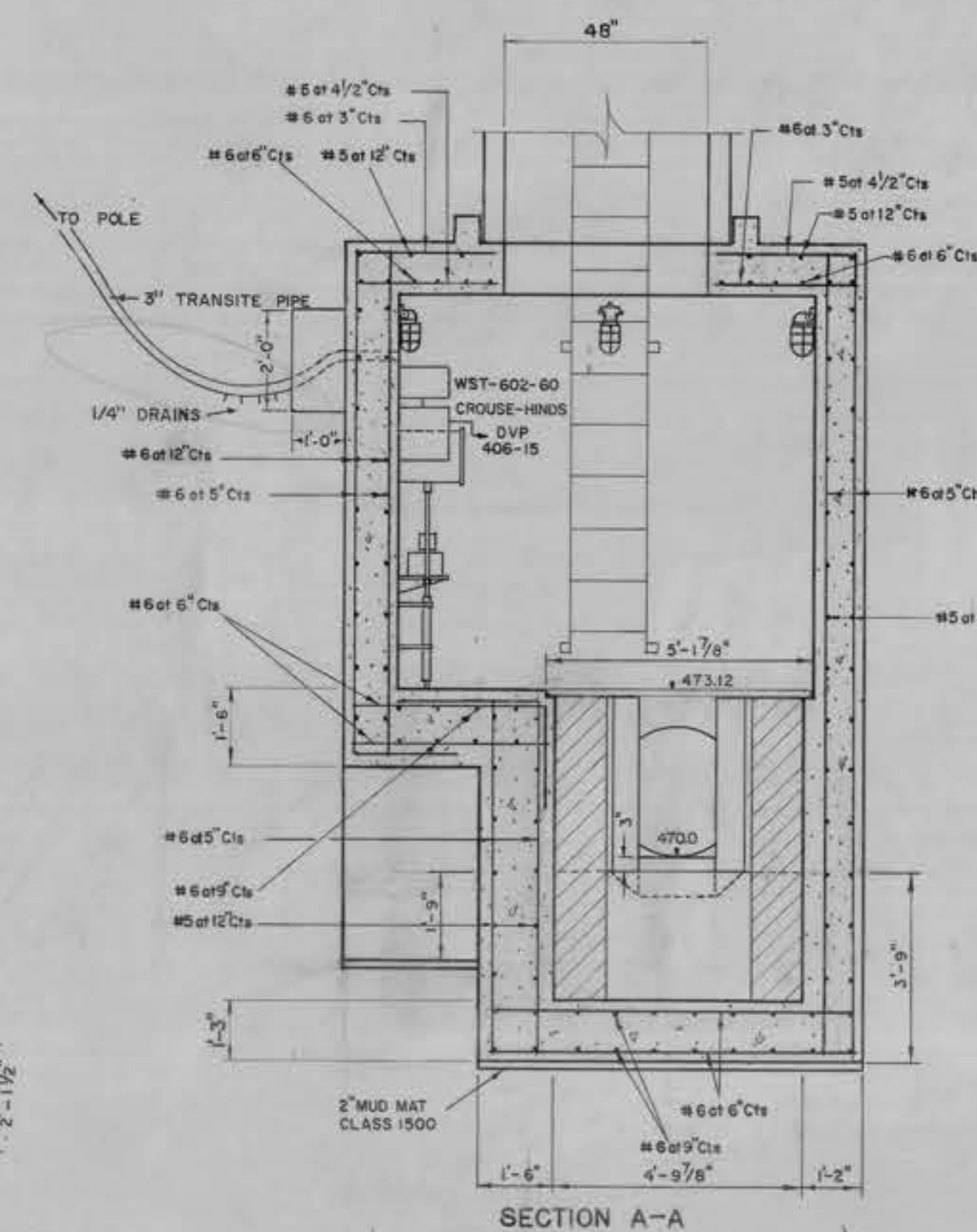
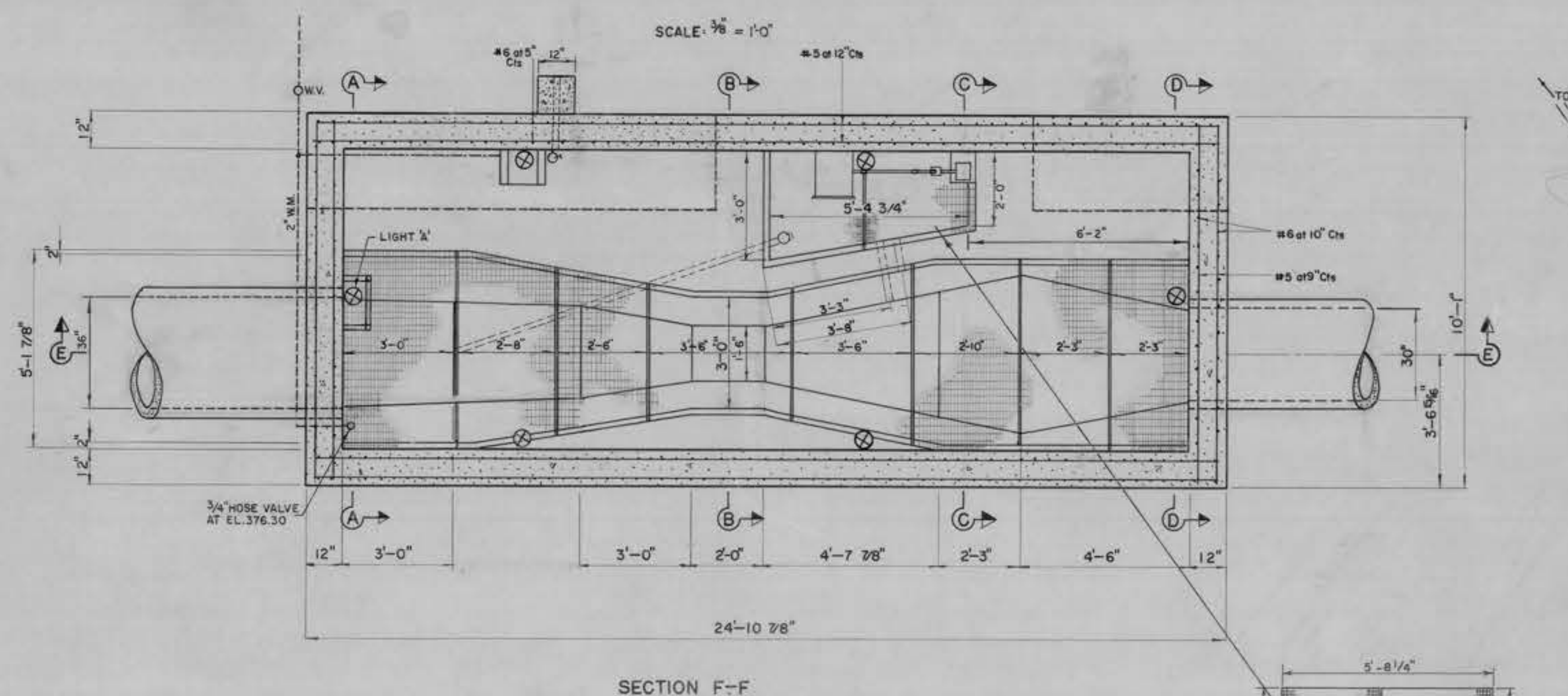






MANHOLE NUMBER	LADDER DIMENSION "L" (feet)			LOWER GRATING ELEVATION	UPPER GRATING ELEVATION
	BOTTOM	SECOND	THIRD		
1	14				
2	16				
3	16				
4	15				
5	11				
6	14				
7	14				
8	11				
9	14				
10	18				
11	14				
12	14				
13	16				
14	17				
15	19				
16	10				

PARSHALL FLUME METERING CHAMBER



MUNICIPALITY OF METROPOLITAN TORONTO
DEPARTMENT OF WORKS—ENGINEERING DIVISION

LESLIE-STEELES SANITARY TRUNK SEWER

FIELD BOOKS 366
SCALES: AS SHOWN

DESIGNED	P.L. Wang
DRAWN	
CHECKED	

DIRECTOR OF ENGINEERING

DIRECTOR, WATER POLLUTION CONTROL

COMMISSIONER OF WORKS

DATE

CONTRACT

DRAWING NUMBER

1268-D-6663

DRAWING CANCELLED



LAND USAGE	POPULATION	EQUIVALENT
	RESIDENTIAL	20
	INDUSTRIAL	60
	COMMERCIAL	30
	INSTITUTIONAL	50
	UTILITIES	10
	PARKLAND	0

Land use according to Metro Planning Dept. 1968

LEGEND

- LESLIE-STEELE'S DRAINAGE AREA BOUNDARY
- SANITARY TRUNK SEWER
- LOCAL DRAINAGE AREA BOUNDARY
- ENTRY POINTS

REFERENCE

For Area North of Steele's Refer to DWG. C-301
Existing Planning Area Map
N.Y. Assessment Sheet N^o 45
N^o 46
N.Y. 3700, 3701, 3909 (Micro-Film)
N.Y. 1054-F-836
" F-836
" F-615

FROM	TO	AREA	AREA (Acres)		POPULATION		CFS Infiltration	Factor of Peak Flow	Average Flow	Peak Flow	Total cfs	Grade %	Size ins.	Velocity f.p.s.	Capacity cfs	Total m ³ /s	Capacity m ³ /s
			Increase	Accum.	Increase	Accum.											
5	4	E		1,699		61,740	6.31	2.19	11.47	25.12	31.43	.65	36	7.60	54	0.890	1.529
4	3	D	162	1,861	3,120	64,860	6.91	2.17	12.05	26.15	33.06	.65	36	7.60	54	0.936	1.529
3	2	C	75	1,936	640	65,500	7.19	2.16	12.17	26.29	33.48	.65	36	7.60	54	0.948	1.529
2	1	B	38	1,974	460	65,960	7.33	2.16	12.25	26.46	33.79	.43	36	6.25	44	0.957	1.246
1		A	73	2,047	540	66,500	7.61	2.16	12.35	26.68	34.29	.43	36	6.25	44	0.971	1.246

REVISION DATE DRAWN CHECKED

MUNICIPALITY OF METROPOLITAN TORONTO
DEPARTMENT OF WORKS — ENGINEERING DIVISION

LESLIE-STEELE'S S.T.S.
DRAINAGE AREA

FIELD BOOKS
SCALES:
1"=1000'

DESIGNED

DRAWN *A. Dizon*

CHECKED *gk*

DIRECTOR OF ENGINEERING

DIRECTOR WATER POLLUTION CONTROL

COMMISSIONER OF WORKS

DATE
MARCH 1977

CONTRACT

DRAWING NUMBER
1268-D-7315

APPENDIX C3-2

Channel and Valley Modification Mapping

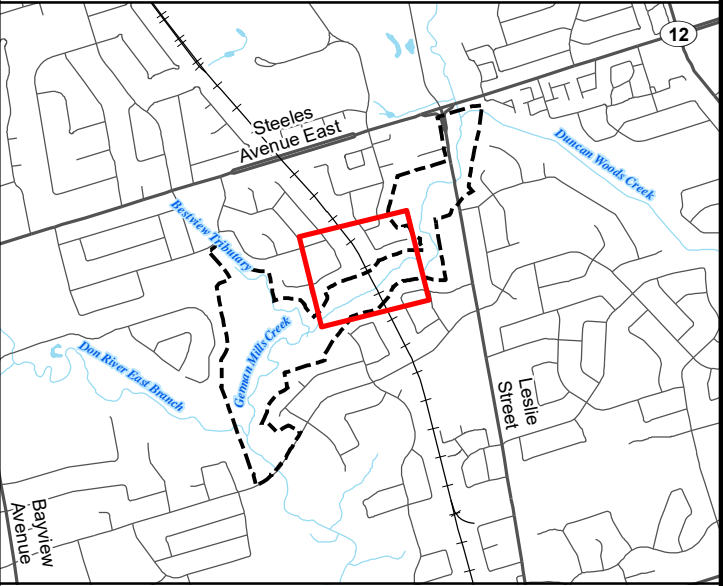
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I:\Client\Toronto\32227\FiguresAndTables\GMV2021\Report\Appendix C-2-Historical_Channel_Trace_1965_Overlayed_on_1978_Orthoimagery_Reach_GM2.mxd - Tabbed_L_109-Dec-21_04:24 PM - Inweight - TID005



- Channel Planform – 1965
- Reach Break
- Railway
- Sanitary Sewer Constructed in 1969
- Storm Sewer
- Watermain
- Stormwater Outfall
- Sanitary Sewer Maintenance Hole
- Storm Sewer Maintenance Hole



Disclaimer: Sewers have been clipped to the Focused Study Area.

Reference: Contains information licensed under the Open Government Licence – Ontario. Imagery (1978) obtained from Canada Map Sales, used under license. Imagery provided by: Used under license.

1:1,500

metres

15 0 15 30

NAD27 MTM zone 10

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

City of Toronto
German Mills Creek GSMP EA

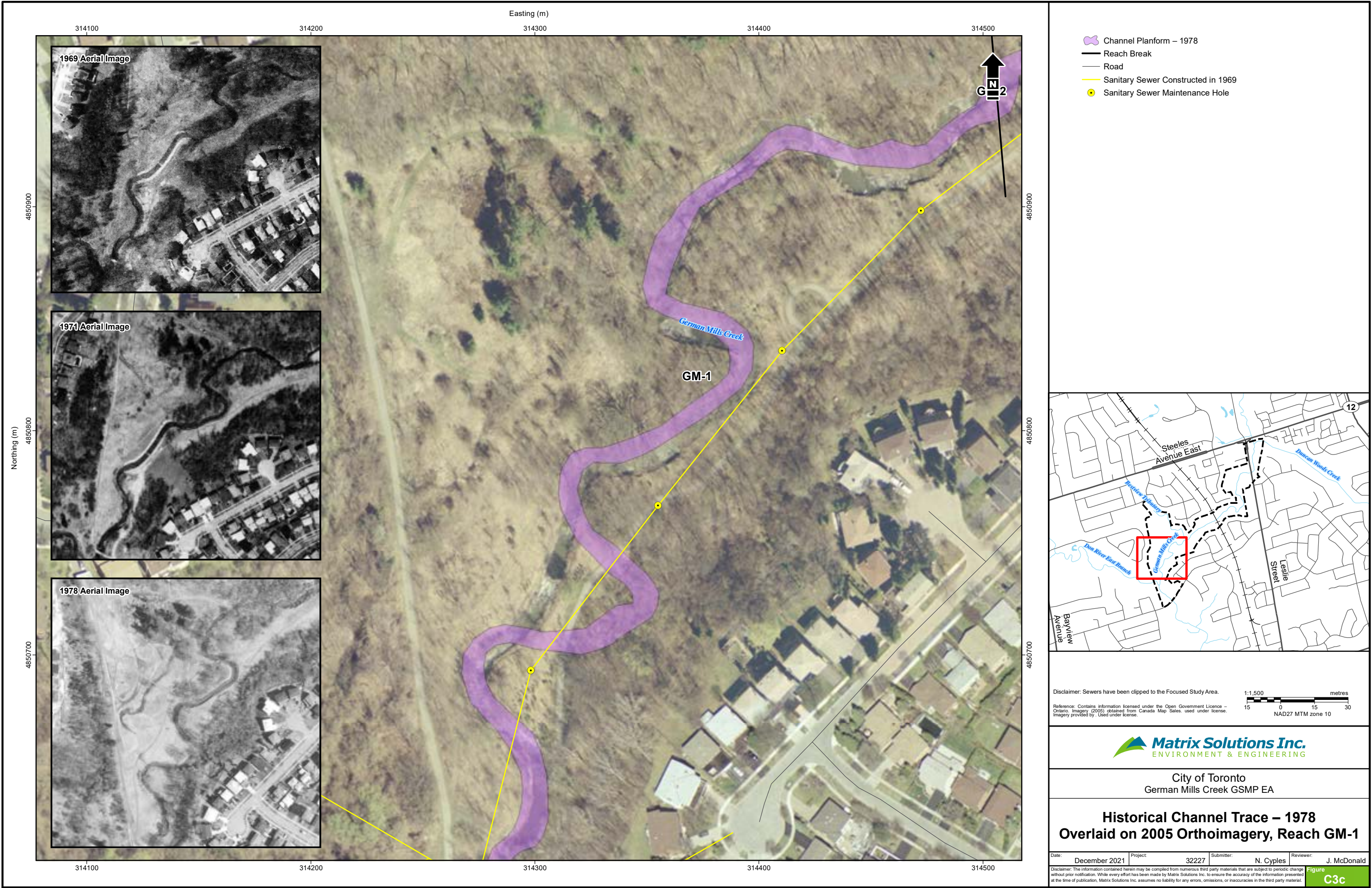
Historical Channel Trace – 1965 Overlaid on 1978 Orthoimagery, Reach GM-2

Date: December 2021	Project: 32227	Submitter: N. Cyples	Reviewer: J. McDonald
---------------------	----------------	----------------------	-----------------------

Disclaimer: The information contained herein may be compiled from numerous third party materials that are subject to periodic change without prior notification. While every effort has been made by Matrix Solutions Inc. to ensure the accuracy of the information presented at the time of publication, Matrix Solutions Inc. assumes no liability for any errors, omissions, or inaccuracies in the third party material.

Figure
C3b

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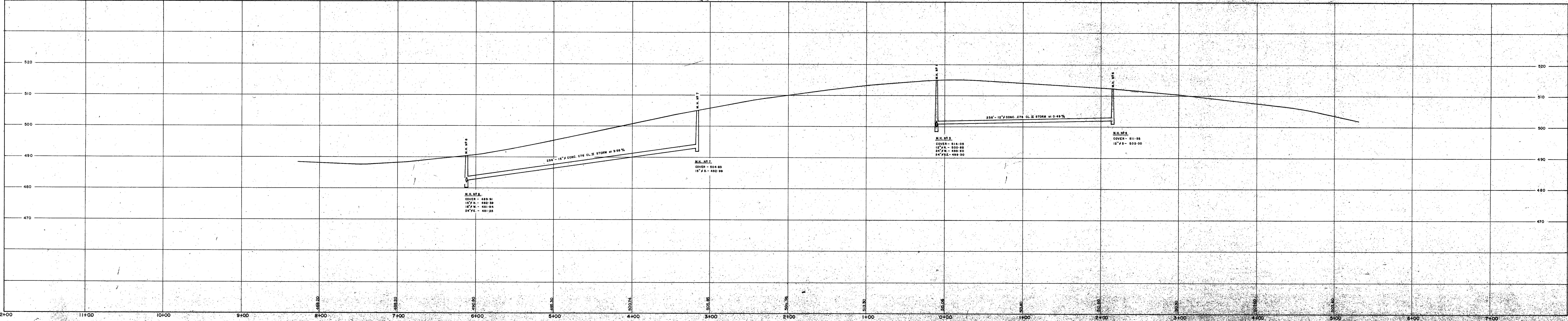
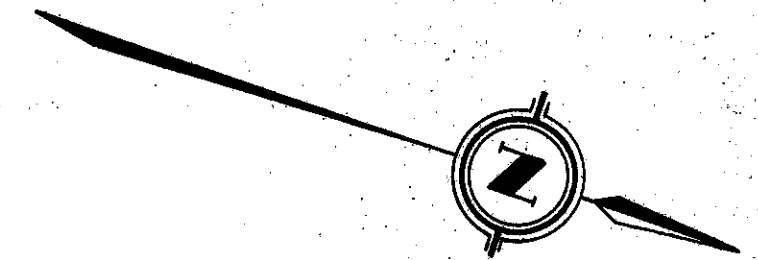
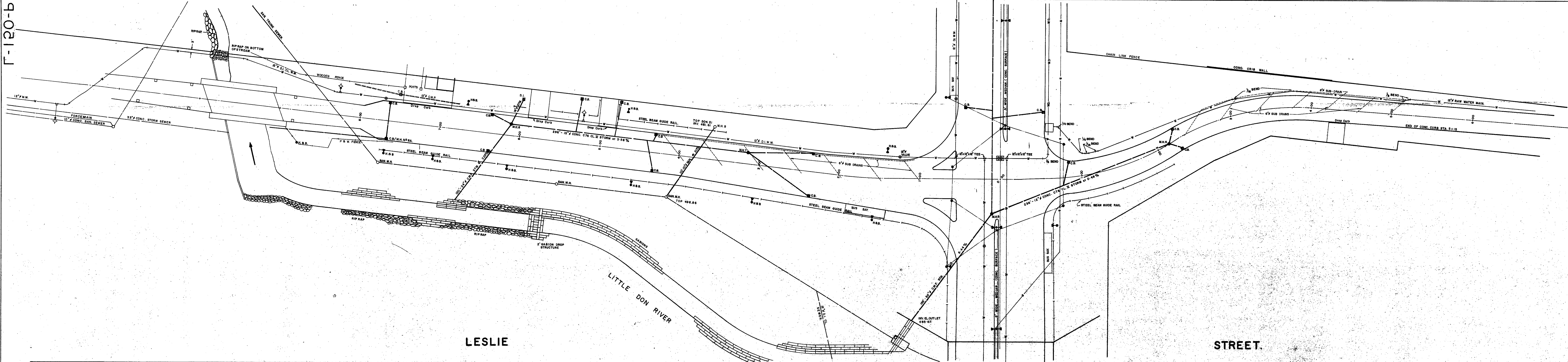
APPENDIX C3-3
Steeles-Leslie Intersection
Engineering Drawings (1978)

1-120-b



1-120-b

1-120-b

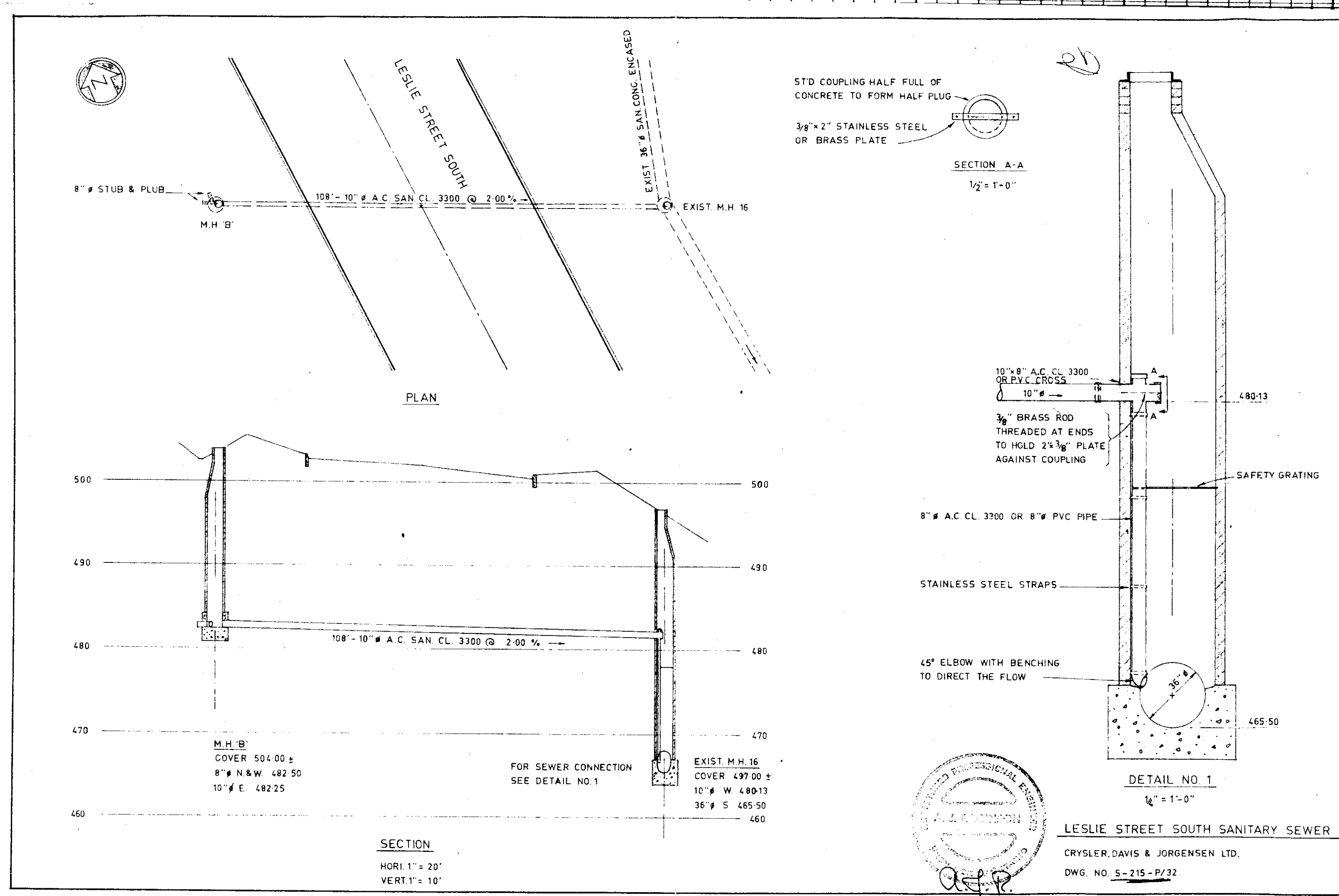
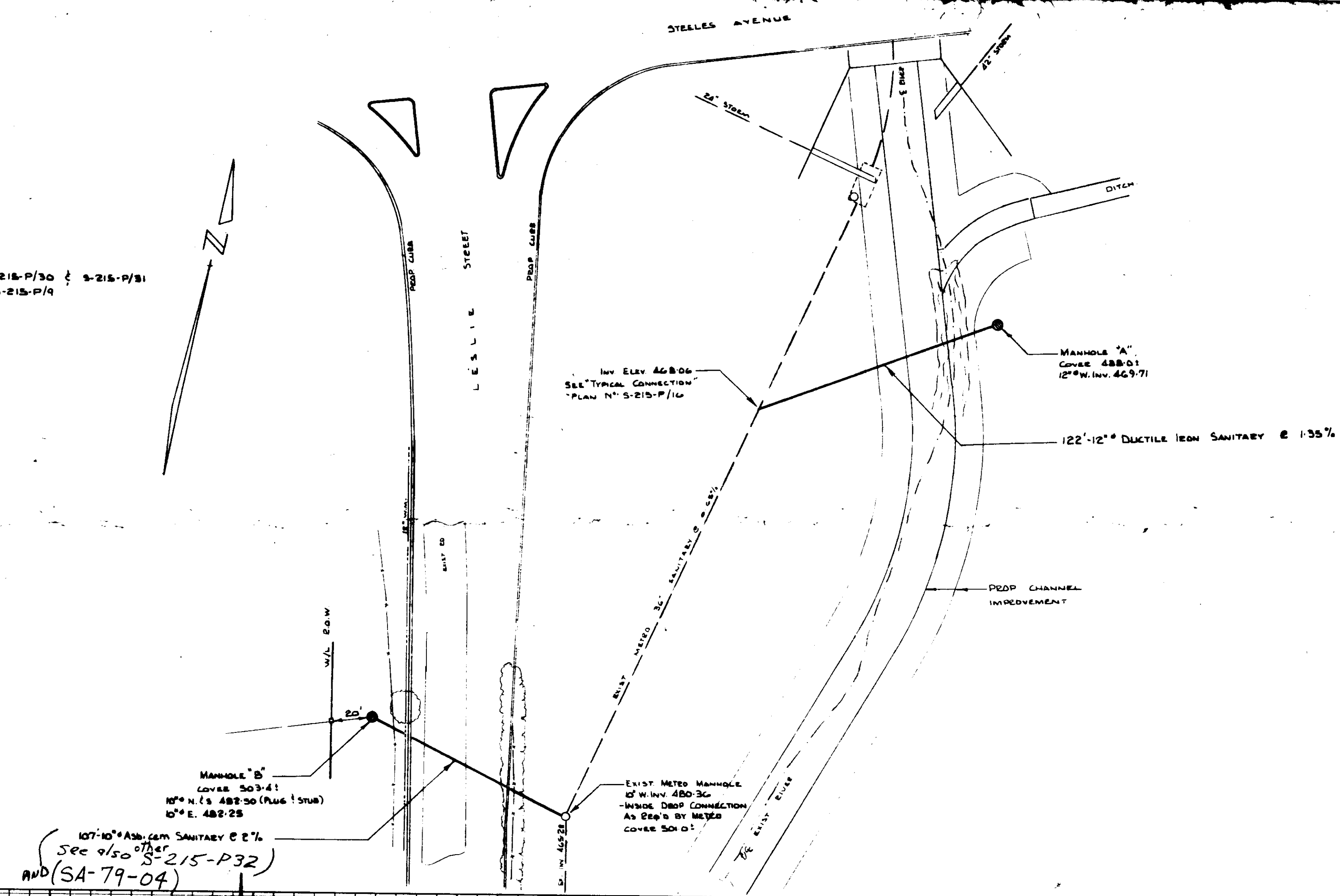
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NOTE:
AS CONSTRUCTED DWG. No. S-215- P/2
REPLACES CONSTRUCTION DWG'S No.
S-215- P/2, P/4, P/6, P/8

NO.		REVISION	DATE
 CHRYSLER, DAVIS & JORGENSEN LTD. CONSULTING ENGINEERS WILLOWDALE, ONTARIO			
BOROUGH OF NORTH YORK ENGINEERING DEPARTMENT			
STEELES - LESLIE INTERSECTION LESLIE STREET			
SCALES: HOR. 1" = 40' VERT. 1" = 10'	BENCH MARK	FIELD BOOK	
DATE: MARCH 1972	CHKD. 	DWG. NO.	
DRAWN: JMC 8-58	APPD.	S-215- P/2	

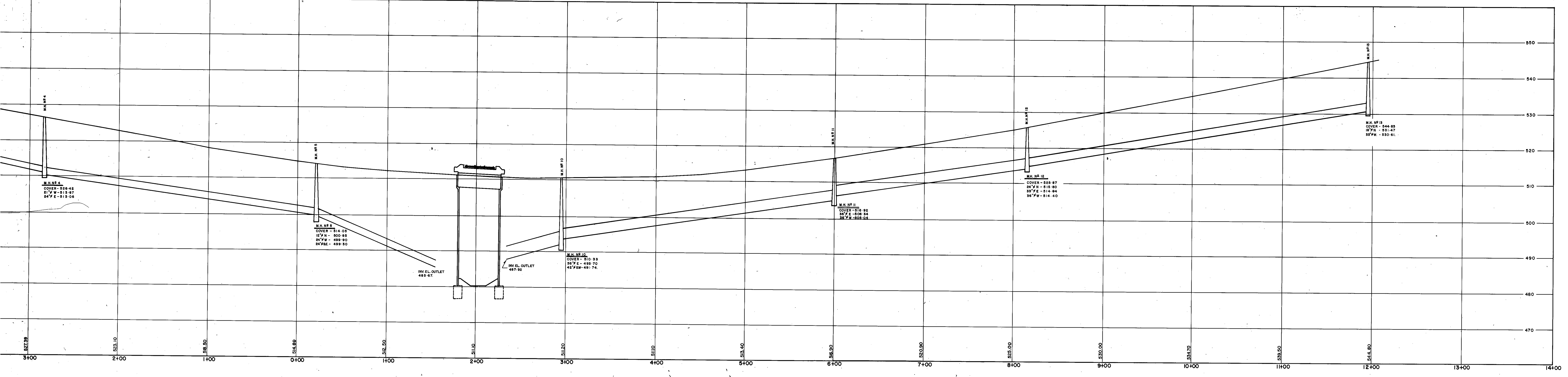
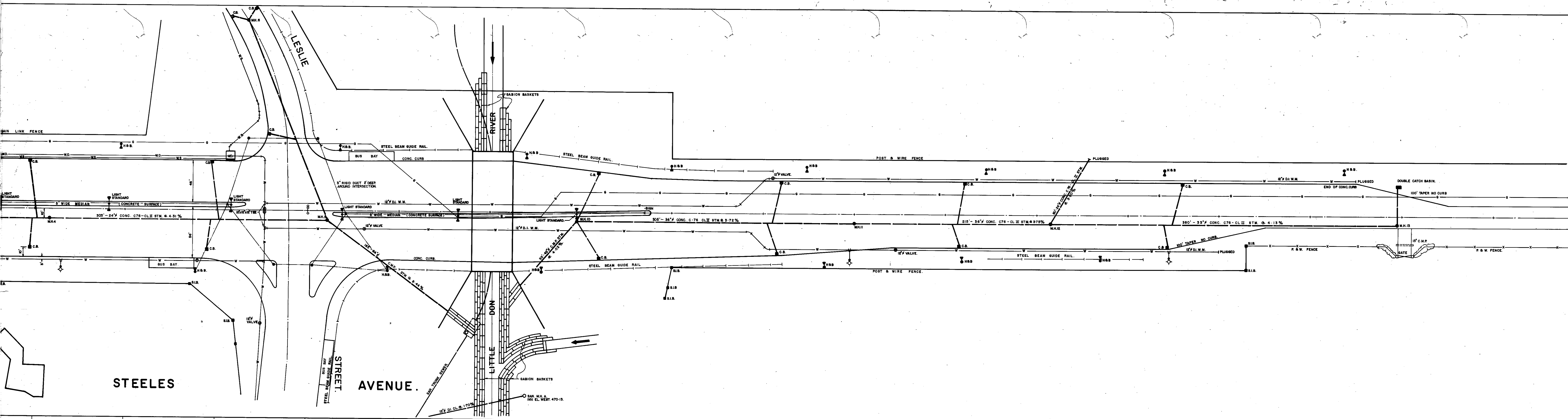
NOTE:
THIS PLAN SUPERSEDES DWG'S NO. S-215-P/30 & S-215-P/31
AND ALSO REVISES DWG'S NO. S-215-P/4 & S-215-P/9



KEUFFEL & ESSER CO.
NEW YORK

BOROUGH OF NORTH	
DEPARTMENT OF PUBLIC WORKS	
LESLIE STREET	
SANITARY SEWER	
DESIGN	DATE 10-1-50
DRAWN	SCALE
CHECKED	APPROVED

THREE STANDARD MAN
HOLE & PIPING
PROFILE PLATE A 4 X 20
100% MADE IN U.S.A.

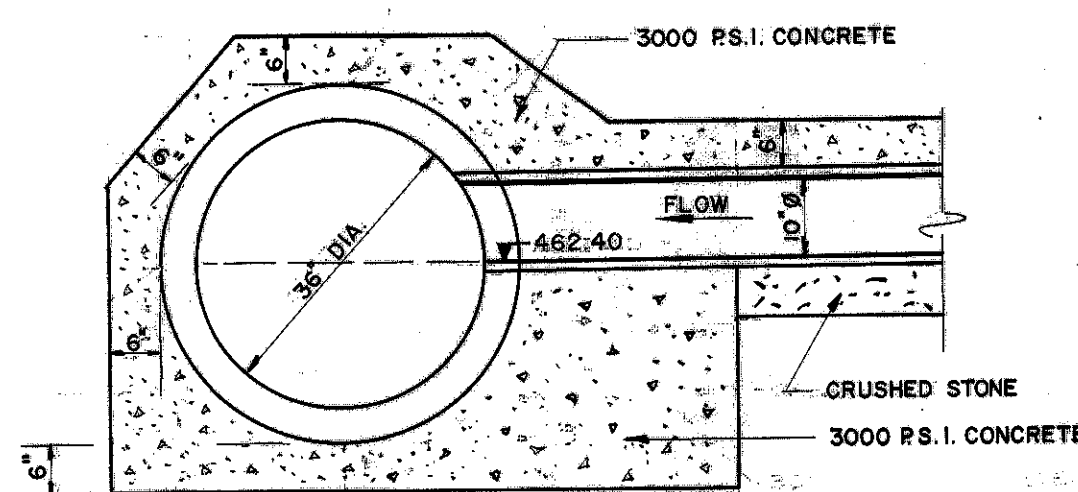


NOTE:
 AS CONSTRUCTED DWG. No. S-215- P/1
 REPLACES CONSTRUCTION DWG'S No.
 S-215- P/1, P /3, P /5, P /7

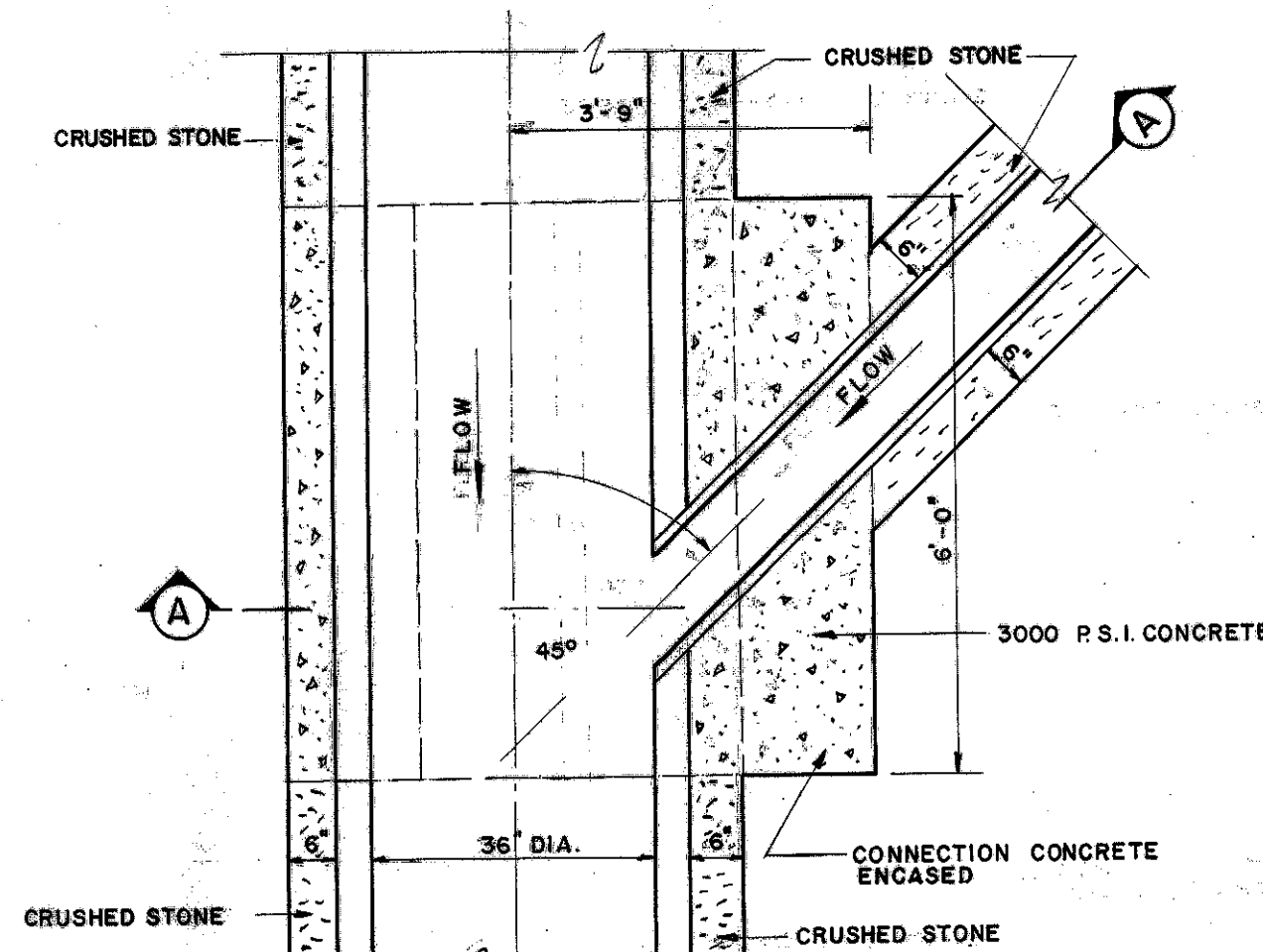
NO.	REVISION	DATE
CHRYSLER, DAVIS & JORGENSEN LTD. CONSULTING ENGINEERS WILLOWDALE, ONTARIO		
BOROUGH OF NORTH YORK. ENGINEERING DEPARTMENT.		
STEELES - LESLIE INTERSECTION. STEELES AVENUE.		
SCALES: HOR. 1" = 40' VERT. 1" = 10'	BENCH MARK CHND. <i>af</i>	FIELD BOOK DWG. NO. S-215-P/1
DATE: MARCH 1972 DRAWN: PMC & SG	APPR.	

S-212-B

S-212-B

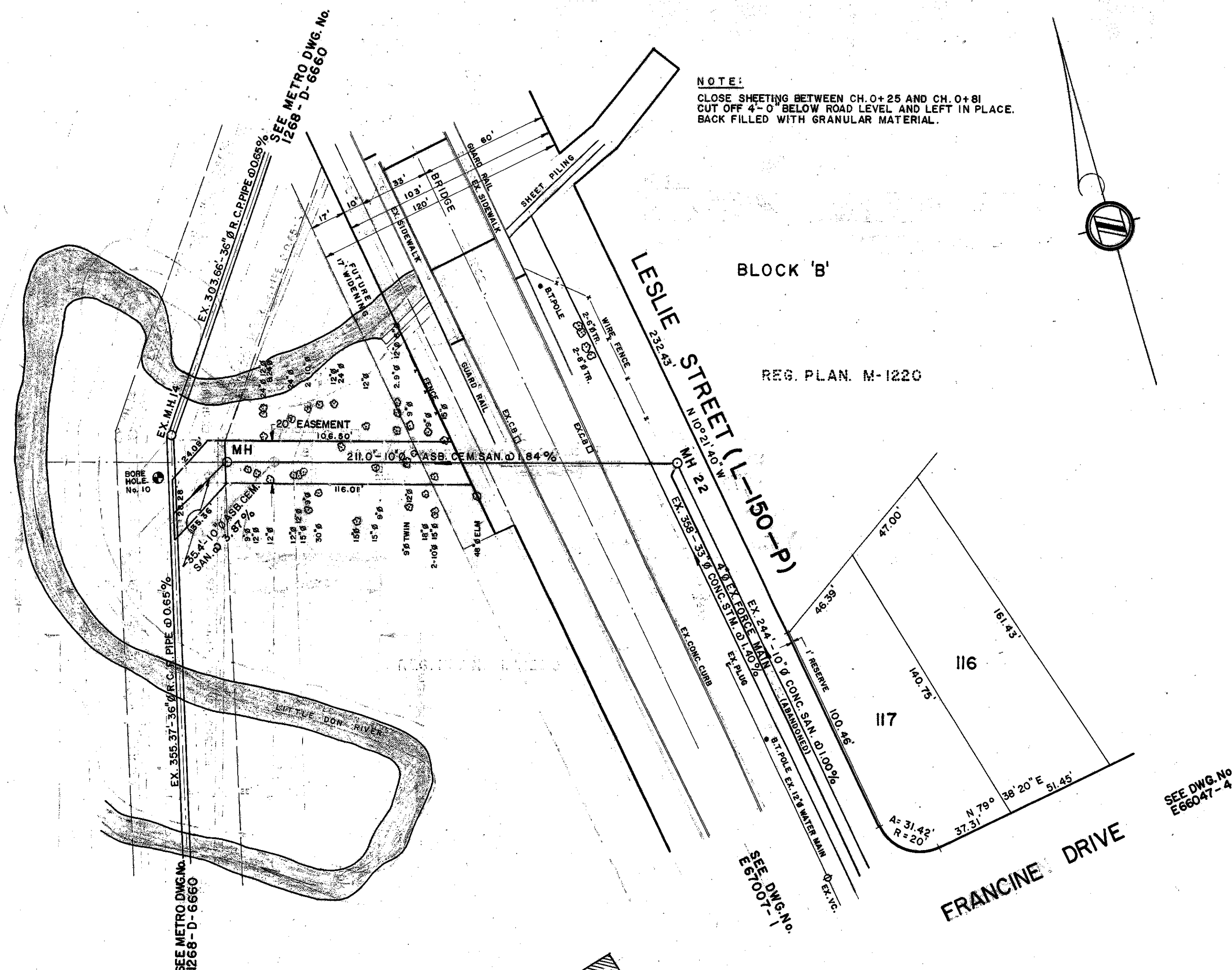


SECTION A-A'

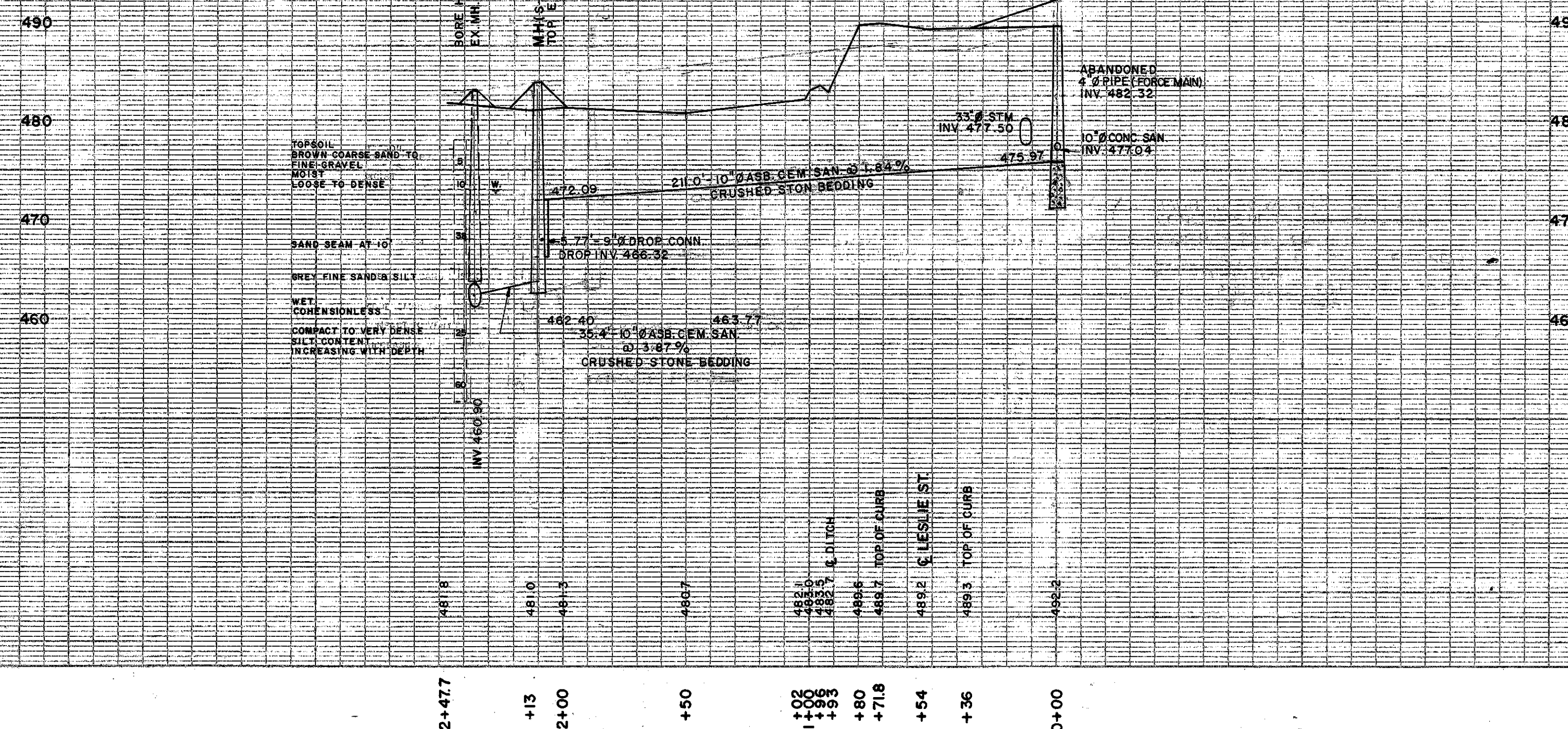
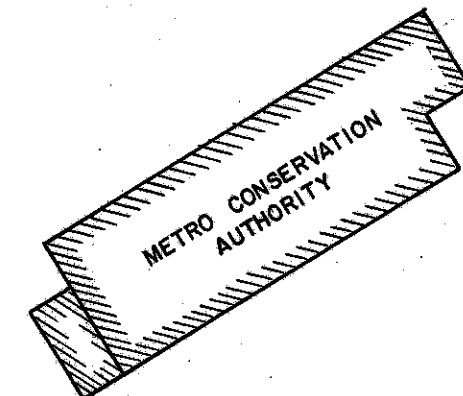


10" ϕ SANITARY SEWER CONNECTION TO
METRO TRUNK SANITARY SEWER

SCALE $\frac{1}{2}$ " = 1'-0"



NOTE:
CLOSE SHEETING BETWEEN CH. 0+25 AND CH. 0+81
CUT OFF 4'-0" BELOW ROAD LEVEL AND LEFT IN PLACE.
BACK FILLED WITH GRANULAR MATERIAL.



B.M. No. T-71 Elev. 512.392 ('60)
STEELES AVENUE BRIDGE OVER EAST DON RIVER 230 FEET EAST OF LESLIE STREET TABLET
IN NORTHERLY FACE OF CONCRETE GUARD RAIL POST ON SOUTHERLY SIDE AND AT EASTERLY
END OF BRIDGE, 2 FEET WESTERLY END AND 12 INCHES ABOVE CURB.

B.M. No. 1 Elev. 494.49
TOP OF CONCRETE RAILING AT THE SOUTH LIMIT ON EAST SIDE OF BRIDGE ON LESLIE
STREET 2800 FEET SOUTH OF STEELES AVENUE.

ALL ELEVATIONS SHOWN ON THIS DRAWING ARE REFERRED TO GEODETIC DATUM DERIVED FROM
B.M. No. T-71.

- NOTES:
1. ASBESTOS CEMENT SEWER PIPES TO BE CLASS 2400
 2. SEWERS TO BE LAID ON STANDARD CRUSHED STONE BEDDING AS DETAILED ON DWG.
No. STD. 232 (JULY 11, 1968).
 3. UTILITY CROSSINGS TO BE SUPPORTED AS DETAILED ON DWG. M-52-B AND M-159-B.

I. AS CONSTRUCTED		JUNE 7, 71			
No.	REVISION	DATE	BY	NORTH YORK APPROVED	DATE
BOROUGH OF NORTH YORK DEPARTMENT OF PUBLIC WORKS					
SANITARY SEWER CONNECTION FROM LESLIE STREET TO LESLIE-STEELES SANITARY TRUNK SEWER					
MARSHALL MACKLIN MONAGHAN LIMITED CONSULTING PROFESSIONAL ENGINEERS TOWN PLANNERS MARSHALL MACKLIN AND MONAGHAN DON MILLS, ONTARIO					
FILE NO.		MMM DWG. NO. E69029-1			
APPROVED		SCALES - HORIZONTAL: 1" = 40' VERTICAL: 1" = 10'			
DATE		DESIGNED BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> DATE: APR. 1969 BENCH MARK: No. 1 ELEV. 494.49 DWG. NO. SA-79-R			
COMMISSIONER OF PUBLIC WORKS					

SUB-DIV 928