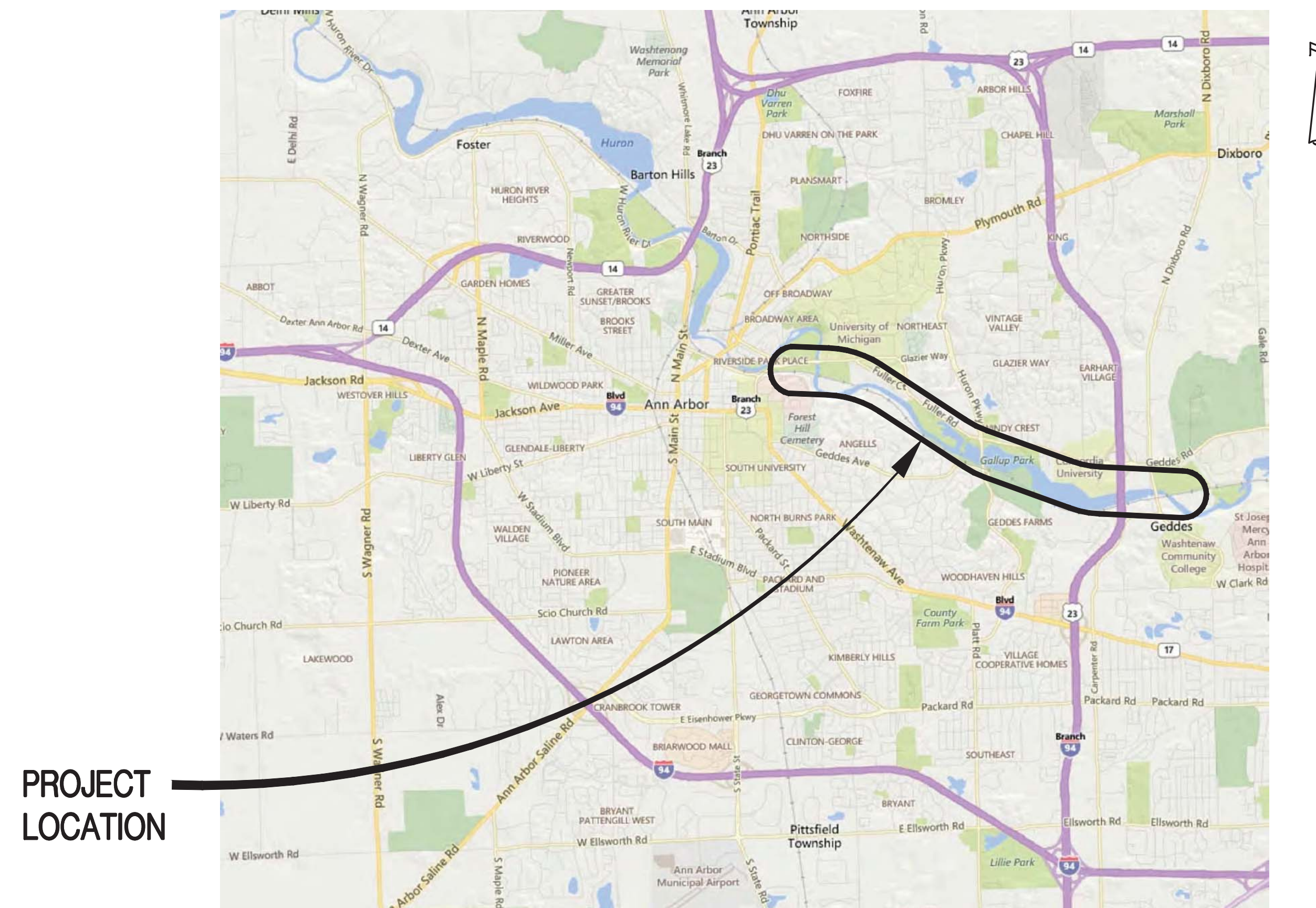


CITY OF ANN ARBOR WASHTENAW COUNTY, MICHIGAN

NORTHSIDE INTERCEPTOR CONDITION ASSESSMENT

ITB No. 4521

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LEGEND
3	OVERALL LAYOUT
4-10	INSPECTION PLANS



**PROJECT
LOCATION**

LOCATION MAP

Not to Scale

GENERAL PROVISIONS

THE CONDITION ASSESSMENT COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF ANN ARBOR WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. PURSUANT TO ACT 174 OF THE P.A. OF 2013, AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT, PHONE (800) 482-7171 (OR 811). UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS AND ARE NOT THE RESPONSIBILITY OF THE CITY OF ANN ARBOR.

THE ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 VERTICAL DATUM.

CONTRACT FOR:
CONDITION ASSESSMENT OF SANITARY SEWER INTERCEPTOR AND MAIN PIPING UTILIZING
CCTV, LASER, SONAR, AND GAS INSPECTION TECHNOLOGIES.



Advancing Communities

34000 Plymouth Road | Livonia, MI 48150
p (734) 522-6711 | f (734) 522-6427

PREPARED UNDER THE SUPERVISION OF:

60848
Registration No.

GEORGE A. TSAKOFF, P.E. Date

REVISIONS

PROJECT NO. 0028-17-0040	SHEET NO. 1 OF 10
-----------------------------	----------------------

WATER & SEWER UTILITY SYMBOLS

EXISTING

- STORM MANHOLE
- SQUARE CATCH BASIN
- ROUND CATCH BASIN
- CULVERT
- CULVERT W/O END SECTION
- CULVERT W/END SECTION
- SANITARY MANHOLE
- CLEAN OUT
- GATE VALVE & WELL
- GATE VALVE & BOX
- WATER STOP BOX
- FIRE HYDRANT
- METER PIT
- WATER METER
- SPRINKLER HEAD
- IRRIGATION VALVE

PROPOSED

- STORM MANHOLE
- INLET/CATCH BASIN
- CULVERT END SECTION
- SANITARY MANHOLE
- GATE VALVE & WELL
- GATE VALVE & BOX
- TAPPING SLEEVE VALVE & WELL
- TAPPING SLEEVE VALVE & BOX
- FIRE HYDRANT

REAL ESTATE SYMBOLS

- CONTIGUOUS PROPERTY SYMBOL
- PARCEL NUMBER BOX
- NO ROW IMPACTS

MISCELLANEOUS UTILITY SYMBOLS

EXISTING

- GUY WIRE
- GUY POLE
- UTILITY POLE
- UTILITY POLE W/LIGHT
- LIGHT/DECOR LAMP POLE
- FLOOD LIGHT
- GAS VALVE
- GAS VENT
- GAS METER
- GAS RISER
- TRAFFIC SIGNAL
- PEDESTRIAN RISER
- TRANSFORMER PAD
- PRIVATE UTILITY MANHOLE
- RAILROAD CROSSING
- ELECTRIC METER
- PHONE BOOTH
- TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- ELECTRIC RISER
- TELEPHONE RISER
- CABLE TV RISER
- MONITORING WELL
- UNDERGROUND MARKER

MISCELLANEOUS SYMBOLS

EXISTING

- RIPRAP
- SIGN
- FLOW DIRECTION
- STUMP
- WETLAND
- CONIFEROUS TREE
 - CL 1 1" TO 5"
 - CL 2 6" TO 17"
 - CL 3 18" TO 35"
 - CL 4 36" AND UP
- DECIDUOUS TREE
- CONIFEROUS SHRUB
- DECIDUOUS SHRUB
- SOIL BORING
- SECTION CORNER
- MONUMENT
- IRON ROD/PIPE
- PK NAIL
- BENCHMARK
- TRAVERSE POINT
- MAIL/NEWSPAPER BOX
- FLAG POLE
- POST

HAZARDOUS OR FLAMMABLE MATERIAL USED WITH UNDERGROUND GAS & ELECTRICAL LINES

CAUTION - CRITICAL UNDERGROUND UTILITY USED WITH TELEPHONE & FIBER OPTIC LINES

PROPOSED

- RIPRAP
- SIGN
- FLOW DIRECTION
- STRUCTURE NUMBER
 - WM
 - SAN
 - STM
- ADA SIDEWALK RAMP

UTILITY PATTERN

EXISTING

- ELECTRICAL *
- GAS \ OIL
- CABLE/TELEPHONE *
- FIBER OPTIC *
- WATER
- SANITARY
- STORM

PROPOSED

- STORM/SANITARY/WATER
 - PRIMARY UTILITY WILL HAVE A CONTINUOUS LINESTYLE, WITH THE SECONDARY UTILITY MATCHING ITS RESPECTIVE EXISTING UTILITY LINESTYLE
- *OH = OVERHEAD , UG = UNDERGROUND

ROW PATTERN

EXISTING

- ROW
- SECTION
- PROPERTY/PARCEL

PROPOSED

- ROW

TOPO PATTERN

EXISTING

- HEDGE/TREE
- FENCE
- GUARDRAIL
- CENTERLINE OF DITCH
- RAILROAD
- WETLAND/EDGE OF WATER

PROPOSED

- GRADING LIMIT (SLOPE STAKE)
- CENTERLINE OF DITCH
- GUARDRAIL
- FENCE

REMOVAL LEGEND

- SIDEWALK REMOVAL
- HMA SURFACE REMOVAL
- PAVEMENT REMOVAL
- COLD MILLING HMA SURFACE
- HMA BASE CRUSHING AND SHAPING
- EXCAVATION, EARTH, MODIFIED
- CURB AND GUTTER, REM
- TREE, REM
- SALVAGE
- BULKHEAD
- ABANDON
- REMOVE
- ADJUST
- RELOCATE
- RECONSTRUCT
- REMOVE BY OTHERS
- ADJUST BY OTHERS
- RELOCATE BY OTHERS

IF NECESSARY FOR CLARITY

- SALVAGE
- BULKHEAD
- ABANDON
- CLEARING
- REMOVE
- RELOCATE
- RECONSTRUCT
- RELOCATE BY OTHERS
- ADJUST BY OTHERS

SPECIAL LEGEND

- SANITARY MH & STRUCTURE NUMBER
- SANITARY MH WITH ACCESS

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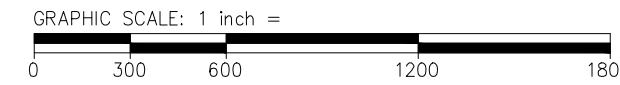
REVISIONS:

HORIZ DATUM VERT DATUM
NAVD83 NAVD83

CITY/VILLAGE/TOWNSHIP COUNTY SCALE H: NTS V: NTS
ANN ARBOR WASHTENAW

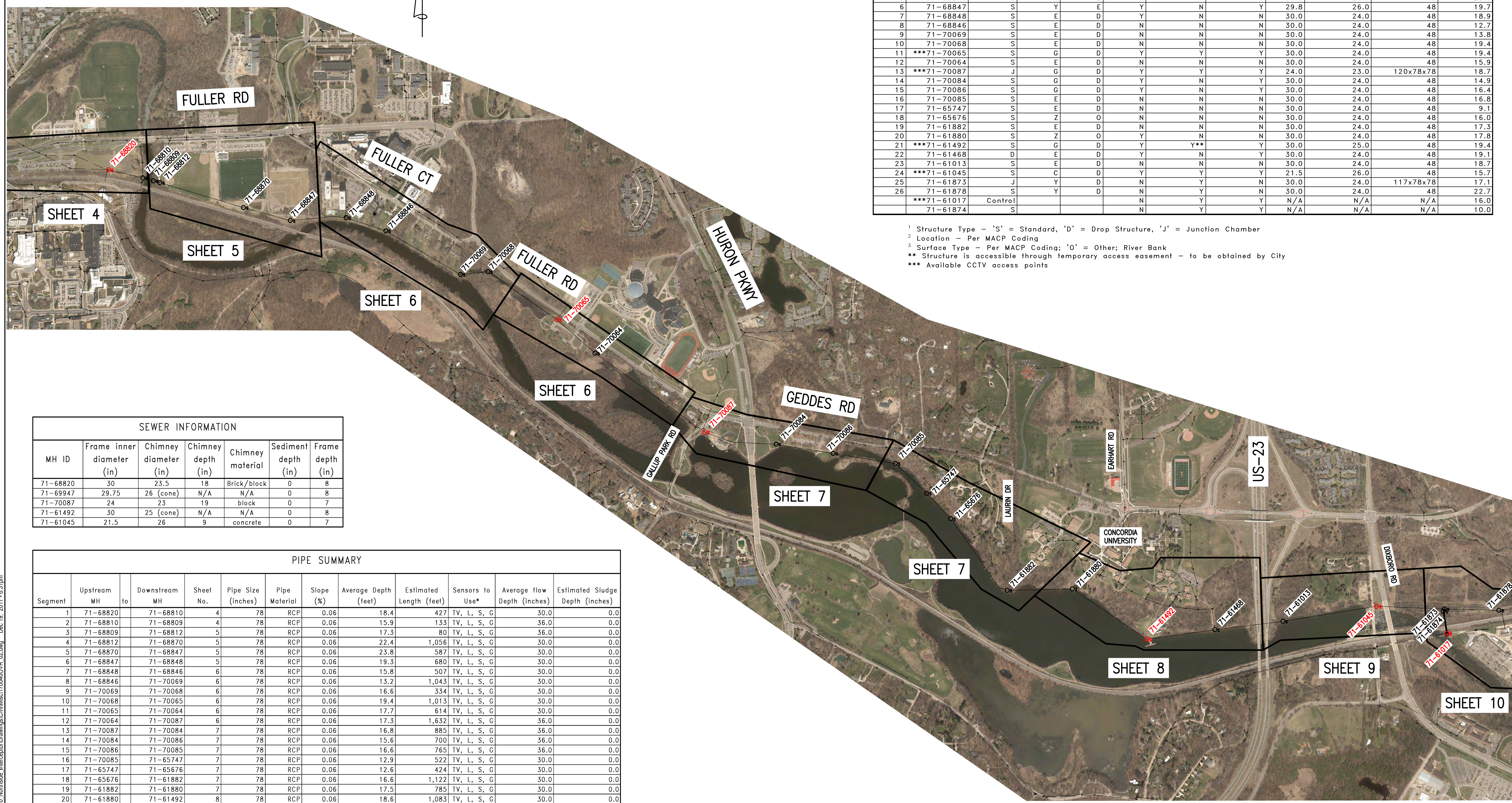
DATE PRO NUMBER ENG PRO INGR PRO INGT
02/28/2010

CITY OF ANN ARBOR
NORTHSIDE INTERCEPTOR
LEGEND



LEGEND

- Os 71-XXXX SANITARY MH & STRUCTURE NUMBER
- Os 71-XXXXX SANITARY MH FOR ACCESS




No.	Structure ID	Structure Type ¹	Location ²	Surface Type ³	Field Located (Y/N)	Available for TV Access (Y/N)	Accessible by Road/Trail (Y/N)	F&C Opening (inches)	Chimney/Cone Dia. (inches)	Wall Dia. / L-W-H (inches)	Estimated Depth (feet)
1	***71-68820	S	Y	D	Y	Y	Y	30.0	23.5	48	22.7
2	71-68810	S	Y	D	N	N	Y	30.0	24.0	48	14.0
3	71-68809	J	E	D	N	N	Y	30.0	24.0	120x78x78	17.7
4	71-68812	J	Y	E	N	N	Y	30.0	24.0	120x78x78	16.8
5	71-68870	S	Y	E	N	N	Y	30.0	24.0	48	28.0
6	71-68847	S	Y	E	Y	N	Y	29.8	26.0	48	19.7
7	71-68848	S	E	D	Y	N	N	30.0	24.0	48	18.9
8	71-68846	S	E	D	N	N	N	30.0	24.0	48	12.7
9	71-70069	S	E	D	N	N	N	30.0	24.0	48	13.8
10	71-70068	S	E	D	N	N	N	30.0	24.0	48	19.4
11	***71-70065	S	G	D	Y	Y	Y	30.0	24.0	48	19.4
12	71-70064	S	E	D	N	N	N	30.0	24.0	48	15.9
13	***71-70087	J	G	D	Y	Y	Y	24.0	23.0	120x78x78	18.7
14	71-70084	S	G	D	Y	N	Y	30.0	24.0	48	14.9
15	71-70086	S	G	D	Y	N	Y	30.0	24.0	48	16.4
16	71-70085	S	E	D	N	N	N	30.0	24.0	48	16.8
17	71-65747	S	E	D	N	N	N	30.0	24.0	48	9.1
18	71-65676	S	Z	O	N	N	N	30.0	24.0	48	16.0
19	71-61882	S	E	D	N	N	N	30.0	24.0	48	17.3
20	71-61880	S	Z	O	Y	N	N	30.0	24.0	48	17.8
21	***71-61492	S	G	D	Y	Y**	Y	30.0	25.0	48	19.4
22	71-61468	D	E	D	Y	N	Y	30.0	24.0	48	19.1
23	71-61013	S	E	D	N	N	N	30.0	24.0	48	18.7
24	***71-61045	S	C	D	Y	Y	Y	21.5	26.0	48	15.7
25	71-61873	J	Y	D	N	Y	N	30.0	24.0	117x78x78	17.1
26	71-61878	S	Y	D	N	Y	N	30.0	24.0	48	22.7
	***71-61017	Control			N	Y	Y	N/A	N/A	N/A	16.0
	71-61874	S			N	Y	Y	N/A	N/A	N/A	10.0

- ¹ Structure Type - 'S' = Standard, 'D' = Drop Structure, 'J' = Junction Chamber
- ² Location - Per MACP Coding
- ³ Surface Type - Per MACP Coding; 'O' = Other; River Bank
- ** Structure is accessible through temporary access easement - to be obtained by City
- *** Available CCTV access points

MH ID	Frame inner diameter (in)	Chimney diameter (in)	Chimney depth (in)	Chimney material	Sediment depth (in)	Frame depth (in)
71-68820	30	23.5	18	Brick/block	0	8
71-69947	29.75	26 (cone)	N/A	N/A	0	8
71-70087	24	23	19	block	0	7
71-61492	30	25 (cone)	N/A	N/A	0	8
71-61045	21.5	26	9	concrete	0	7

Segment	Upstream MH	Downstream MH	Sheet No.	Pipe Size (inches)	Pipe Material	Slope (%)	Average Depth (feet)	Estimated Length (feet)	Sensors to Use*	Average flow Depth (inches)	Estimated Sludge Depth (inches)
1	71-68820	71-68810	4	78	RCP	0.06	18.4	427	TV, L, S, G	30.0	0.0
2	71-68810	71-68809	4	78	RCP	0.06	15.9	133	TV, L, S, G	36.0	0.0
3	71-68809	71-68812	5	78	RCP	0.06	17.3	80	TV, L, S, G	36.0	0.0
4	71-68812	71-68870	5	78	RCP	0.06	22.4	1,056	TV, L, S, G	30.0	0.0
5	71-68870	71-68847	5	78	RCP	0.06	23.8	587	TV, L, S, G	30.0	0.0
6	71-68847	71-68848	5	78	RCP	0.06	19.3	680	TV, L, S, G	30.0	0.0
7	71-68848	71-68846	6	78	RCP	0.06	15.8	507	TV, L, S, G	30.0	0.0
8	71-68846	71-70069	6	78	RCP	0.06	13.2	1,043	TV, L, S, G	30.0	0.0
9	71-70069	71-70068	6	78	RCP	0.06	16.6	334	TV, L, S, G	30.0	0.0
10	71-70068	71-70065	6	78	RCP	0.06	19.4	1,013	TV, L, S, G	30.0	0.0
11	71-70065	71-70064	6	78	RCP	0.06	17.7	614	TV, L, S, G	30.0	0.0
12	71-70064	71-70087	6	78	RCP	0.06	17.3	1,632	TV, L, S, G	36.0	0.0
13	71-70087	71-70084	7	78	RCP	0.06	16.8	885	TV, L, S, G	36.0	0.0
14	71-70084	71-70086	7	78	RCP	0.06	15.6	700	TV, L, S, G	36.0	0.0
15	71-70086	71-70085	7	78	RCP	0.06	16.6	765	TV, L, S, G	36.0	0.0
16	71-70085	71-65747	7	78	RCP	0.06	12.9	522	TV, L, S, G	30.0	0.0
17	71-65747	71-65676	7	78	RCP	0.06	12.6	424	TV, L, S, G	30.0	0.0
18	71-65676	71-61882	7	78	RCP	0.06	16.6	1,122	TV, L, S, G	30.0	0.0
19	71-61882	71-61880	7	78	RCP	0.06	17.5	785	TV, L, S, G	30.0	0.0
20	71-61880	71-61492	8	78	RCP	0.06	18.6	1,083	TV, L, S, G	30.0	0.0
21	71-61492	71-61468	8	78	RCP	0.06	19.2	831	TV, L, S, G	30.0	0.0
22	71-61468	71-61013	8	78	RCP	0.06	18.9	831	TV, L, S, G	30.0	0.0
23	71-61013	71-61045	9	78	RCP	0.06	17.2	1,142	TV, L, S, G	30.0	0.0
24	71-61045	71-61873	9	78	RCP	0.06	16.4	825	TV, L, S, G	36.0	0.0
25	71-61873	71-61878	10	78	RCP	0.06	19.9	657	TV, L, S, G	36.0	0.0
26	71-61878	WWTP	10	78	RCP	0.06	22.7	248	TV, L, S, G	36.0	0.0
	71-61017	71-61874	10	36	RCP	0.4	10.8	263	TV, L, S, G	N/A	N/A
	71-61874	71-61873	10	36	RCP	0.4	15.0	32	TV, L, S, G	N/A	N/A
Totals								19,221			

* Sensors - 'TV' = CCTV, 'L' = Laser, 'S' = Sonar, 'G' = Gas



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REVISIONS:

HORIZ DATUM: VERT DATUM: NAVD83

DATE: 02/27/2020

COUNTY: WASHTENAW

CITY/TOWNSHIP: ANN ARBOR

CITY OF ANN ARBOR

NORTHSIDE INTERCEPTOR

OVERALL LAYOUT

3

OF 10

DRAWING PATH: P:\0000\01000028170040\Northside_Interceptor\Drawings\Civil\Sheet170040\OVR_02.dwg Dec 19, 2017 - 6:31pm

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TRAVERSE POINT #101
 N 286948.67
 E 13296734.02 ELEV 767.06

STRUCTURE SUMMARY

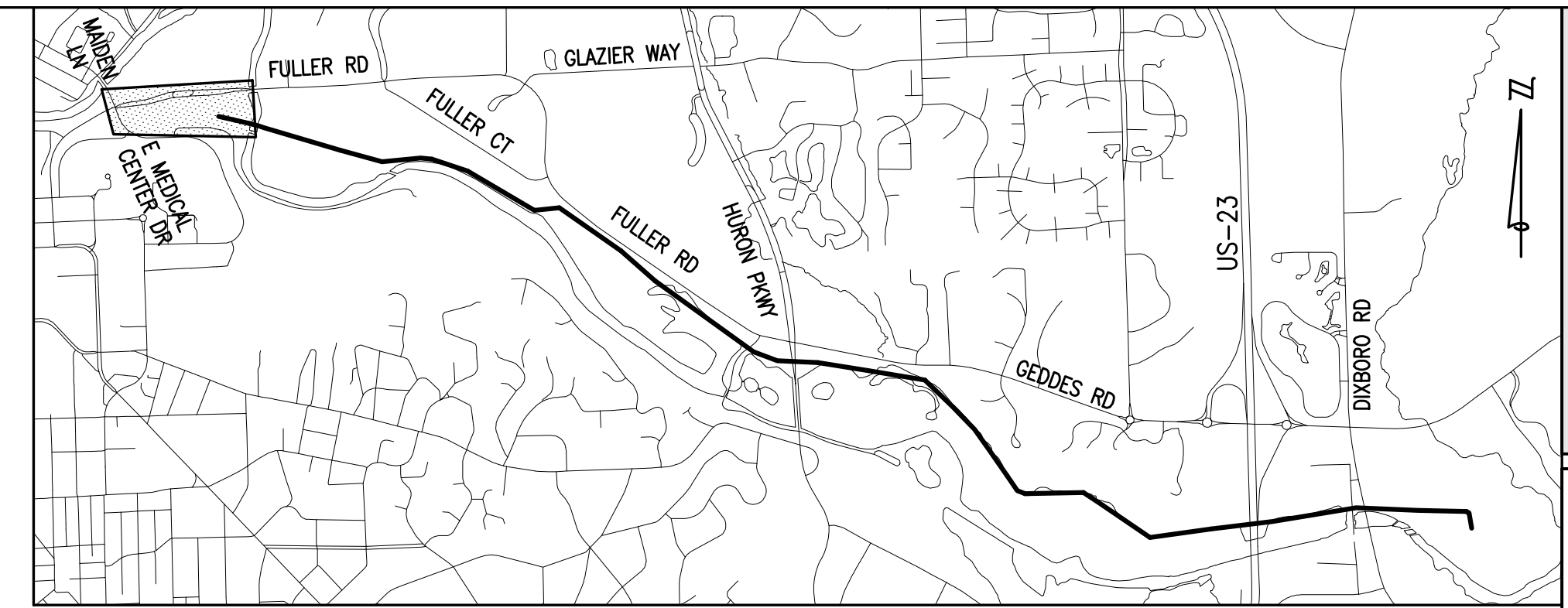
No.	Structure ID	Structure Type ¹	Location ²	Surface Type ³	Field Located (Y/N)	Available for TV Access (Y/N)	Accessible by Road/Trail (Y/N)	F&C Opening (inches)	Chimney/Cone Dia. (inches)	Wall Dia. / L-W-H (inches)	Estimated Depth (feet)
1	***71-68820	S	Y	D	Y	Y	Y	30.0	23.5	48	22.7
2	71-68810	S	Y	D	N	N	Y	30.0	24.0	48	14.0
Totals											36.7

- ¹ Structure Type - 'S' = Standard, 'D' = Drop Structure, 'J' = Junction Chamber
- ² Location - Per MACP Coding
- ³ Surface Type - Per MACP Coding; 'O' = Other; River Bank
- ** Structure is accessible through temporary access easement - to be obtained by City
- *** Available CCTV access points

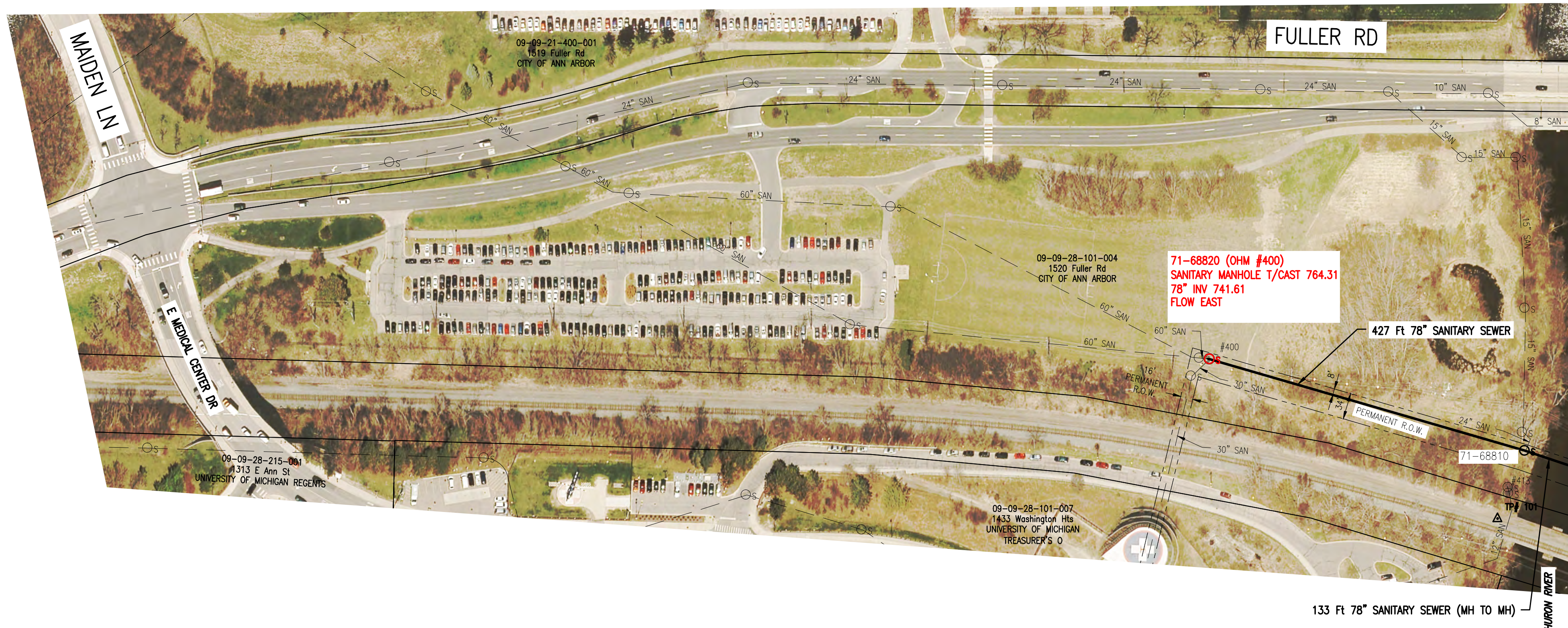
PIPE SUMMARY

Segment	Upstream MH	to	Downstream MH	Sheet No.	Pipe Size (inches)	Pipe Material	Slope (%)	Average Depth (feet)	Estimated Length (feet)	Sensors to Use*	Average flow Depth (inches)	Estimated Sludge Depth (inches)
1	71-68820		71-68810	4	78	RCP	0.06	18.4	427	TV, L, S, G	30.0	0.0
2	71-68810		71-68809	4	78	RCP	0.06	14.0	133	TV, L, S, G	36.0	0.0
Totals									560			

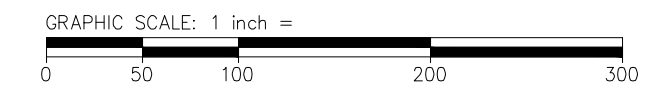
* Sensors - 'TV' = CCTV, 'L' = Laser, 'S' = Sonar, 'G' = Gas



KEY PLAN
NOT TO SCALE



MATCH LINE SEE SHEET 5



NOTES:

1. UNLESS OTHERWISE NOTED IN A TEMPORARY ACCESS AGREEMENT, CONTRACTOR SHALL NOT USE ANY PRIVATE PROPERTY FOR ACCESS OR STORAGE OF ANY MATERIALS, EQUIPMENT, OR LABOR. ALL OPERATIONS SHALL BE CONFINED TO THE PERMANENT INTERCEPTOR EASEMENTS.
2. DESIGNATED ACCESS POINTS, HIGHLIGHTED IN RED, ARE LOCATED ON CITY PROPERTY OR IN AREAS WHERE TEMPORARY ACCESS HAS BEEN OBTAINED. ONLY THESE LOCATIONS SHALL BE USED FOR MATERIAL, EQUIPMENT, AND LABOR ACCESS WITHOUT PRIOR WRITTEN CONSENT. ALL CONDITIONS OF ANY TEMPORARY ACCESS AGREEMENT SHALL BE ADHERED TO BY THE CONTRACTOR.

LEGEND

- s 71-XXXXX SANITARY MH & STRUCTURE NUMBER
- s 71-XXXXX SANITARY MH FOR ACCESS



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 Livonia, MI 48150
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REVISIONS:

DATE: 02-17-2020
 PROJ NUMBER: 02-17-2020
 ENG: GT
 PROJ MGR: GT
 CAD: PR
 COUNTY: WASHTENAW
 CITY/VILLAGE/TOWNSHIP: ANN ARBOR
 H: AS NOTED
 SCALE: V: N/A
 HORIZ DATUM: NAD83
 VERT DATUM: NAVD83

CITY OF ANN ARBOR
NORTHSIDE INTERCEPTOR
INSPECTION PLAN

DRAWING PATH: P:\0000_01000028170040_Northside_Interceptor\Drawings\Civil\Plans_Const\170040CON.dwg Dec 19, 2017 - 6:33pm

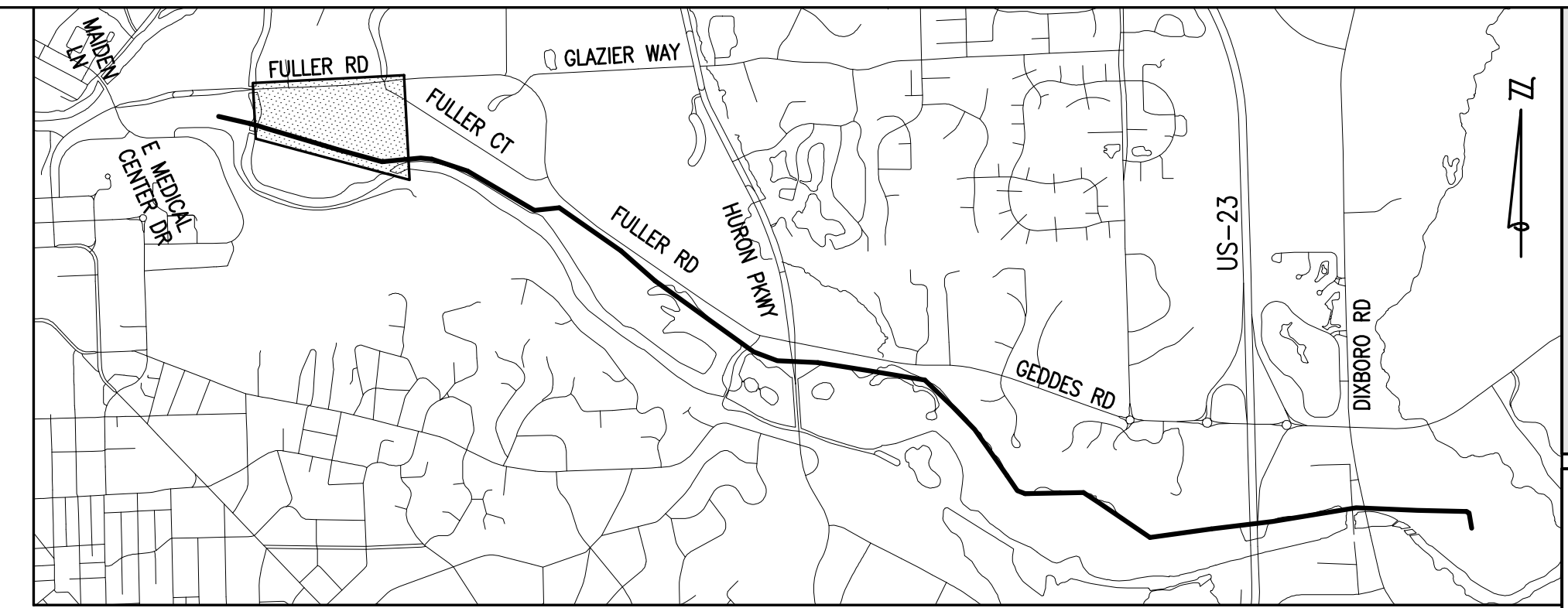
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TRAVERSE POINT #100
N 286908.68
E 13296882.47 ELEV 766.53

STRUCTURE SUMMARY

No.	Structure ID	Structure Type	Location ²	Surface Type ³	Field Located (Y/N)	Available for TV Access (Y/N)	Accessible by Road/Trail (Y/N)	F&C Opening (inches)	Chimney/Cone Dia. (inches)	Wall Dia. / L-W-H (inches)	Estimated Depth (feet)
3	71-68809	J	E	D	N	N	Y	30.0	24.0	120x78x78	17.7
4	71-68812	J	Y	E	N	N	Y	30.0	24.0	120x78x78	16.8
5	71-68870	S	Y	E	N	N	Y	30.0	24.0	48	28.0
6	71-68847	S	Y	E	Y	N	Y	29.8	26.0	48	19.7
Totals											82.2

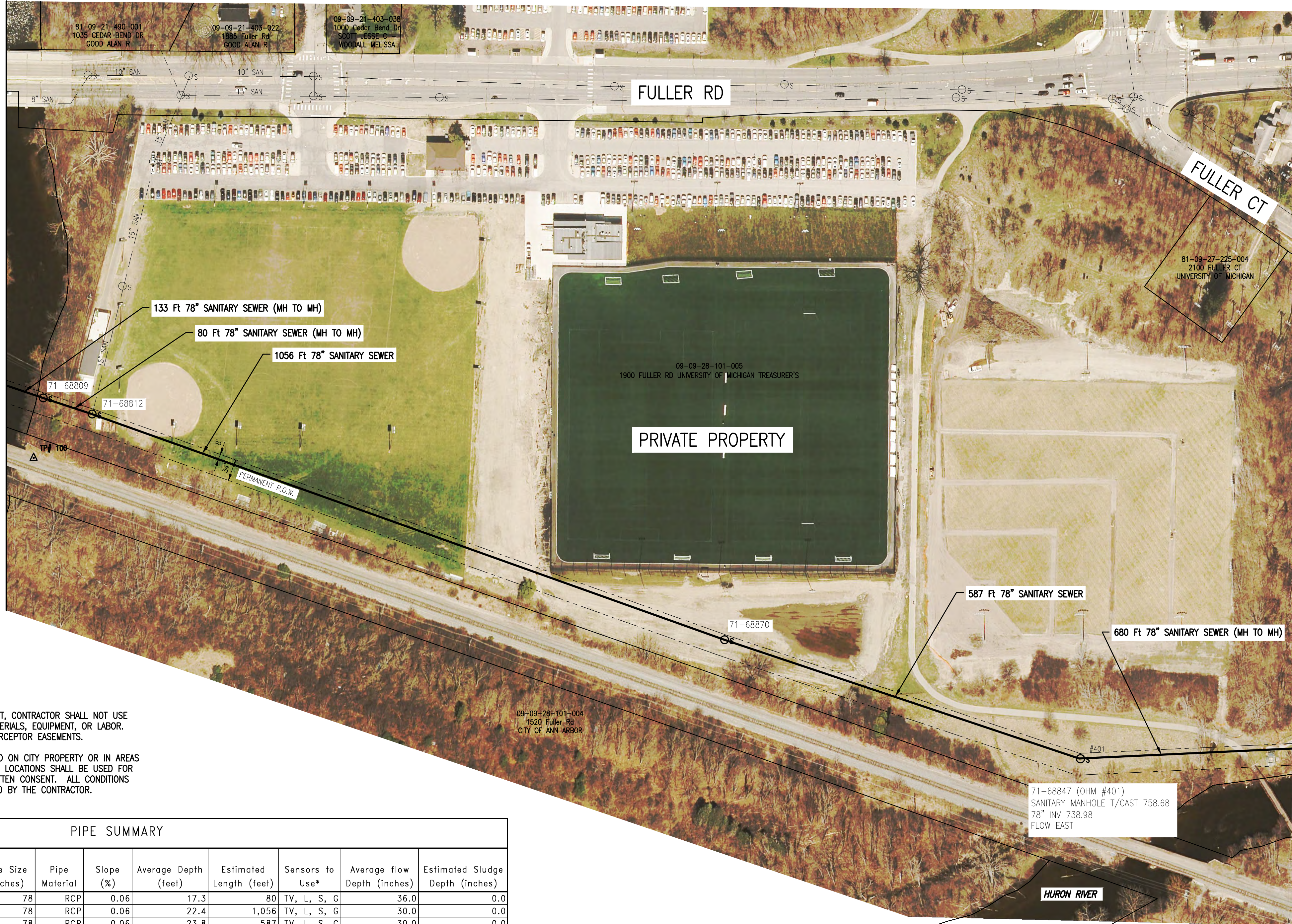
- ¹ Structure Type - 'S' = Standard, 'D' = Drop Structure, 'J' = Junction Chamber
- ² Location - Per MACP Coding
- ³ Surface Type - Per MACP Coding; 'O' = Other; River Bank
- ** Structure is accessible through temporary access easement - to be obtained by City
- *** Available CCTV access points



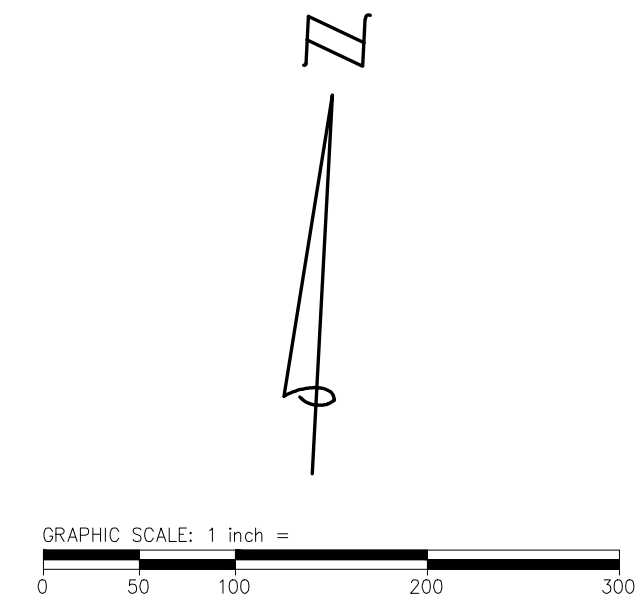
KEY PLAN
NOT TO SCALE

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MATCH LINE SEE SHEET 4



MATCH LINE SEE SHEET 6



LEGEND

- Os 71-XXXX SANITARY MH & STRUCTURE NUMBER
- Os 71-XXXX SANITARY MH FOR ACCESS

NOTES:

- UNLESS OTHERWISE NOTED IN A TEMPORARY ACCESS AGREEMENT, CONTRACTOR SHALL NOT USE ANY PRIVATE PROPERTY FOR ACCESS OR STORAGE OF ANY MATERIALS, EQUIPMENT, OR LABOR. ALL OPERATIONS SHALL BE CONFINED TO THE PERMANENT INTERCEPTOR EASEMENTS.
- DESIGNATED ACCESS POINTS, HIGHLIGHTED IN RED, ARE LOCATED ON CITY PROPERTY OR IN AREAS WHERE TEMPORARY ACCESS HAS BEEN OBTAINED. ONLY THESE LOCATIONS SHALL BE USED FOR MATERIAL, EQUIPMENT, AND LABOR ACCESS WITHOUT PRIOR WRITTEN CONSENT. ALL CONDITIONS OF ANY TEMPORARY ACCESS AGREEMENT SHALL BE ADHERED TO BY THE CONTRACTOR.

PIPE SUMMARY

Segment	Upstream MH	Downstream MH	Sheet No.	Pipe Size (inches)	Pipe Material	Slope (%)	Average Depth (feet)	Estimated Length (feet)	Sensors to Use*	Average flow Depth (inches)	Estimated Sludge Depth (inches)
3	71-68809	71-68812	5	78	RCP	0.06	17.3	80	TV, L, S, G	36.0	0.0
4	71-68812	71-68870	5	78	RCP	0.06	22.4	1,056	TV, L, S, G	30.0	0.0
5	71-68870	71-68847	5	78	RCP	0.06	23.8	587	TV, L, S, G	30.0	0.0
6	71-68847	71-68848	5	78	RCP	0.06	19.7	680	TV, L, S, G	30.0	0.0
Totals								2,403			

* Sensors - 'TV' = CCTV, 'L' = Laser, 'S' = Sonar, 'G' = Gas



Know what's below.
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CITY OF ANN ARBOR
NORTHSIDE INTERCEPTOR
INSPECTION PLAN

STRUCTURE SUMMARY

No.	Structure ID	Structure Type ¹	Location ²	Surface Type ³	Field Located (Y/N)	Available for TV Access (Y/N)	Accessible by Road/Trail (Y/N)	F&C Opening (inches)	Chimney/Cone Dia. (inches)	Wall Dia. / L-W-H (inches)	Estimated Depth (feet)
7	71-68848	S	E	D	Y	N	N	30.0	24.0	48	18.9
8	71-68846	S	E	D	N	N	N	30.0	24.0	48	12.7
9	71-70069	S	E	D	N	N	N	30.0	24.0	48	13.8
10	71-70068	S	E	D	N	N	N	30.0	24.0	48	19.4
11	***71-70065	S	G	D	Y	Y	Y	30.0	24.0	48	19.4
12	71-70064	S	E	D	N	N	N	30.0	24.0	48	15.9
Totals											100.1

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² Location - Per MACP Coding
³ Surface Type - Per MACP Coding; 'O' = Other; River Bank
 ** Structure is accessible through temporary access easement - to be obtained by City
 *** Available CCTV access points

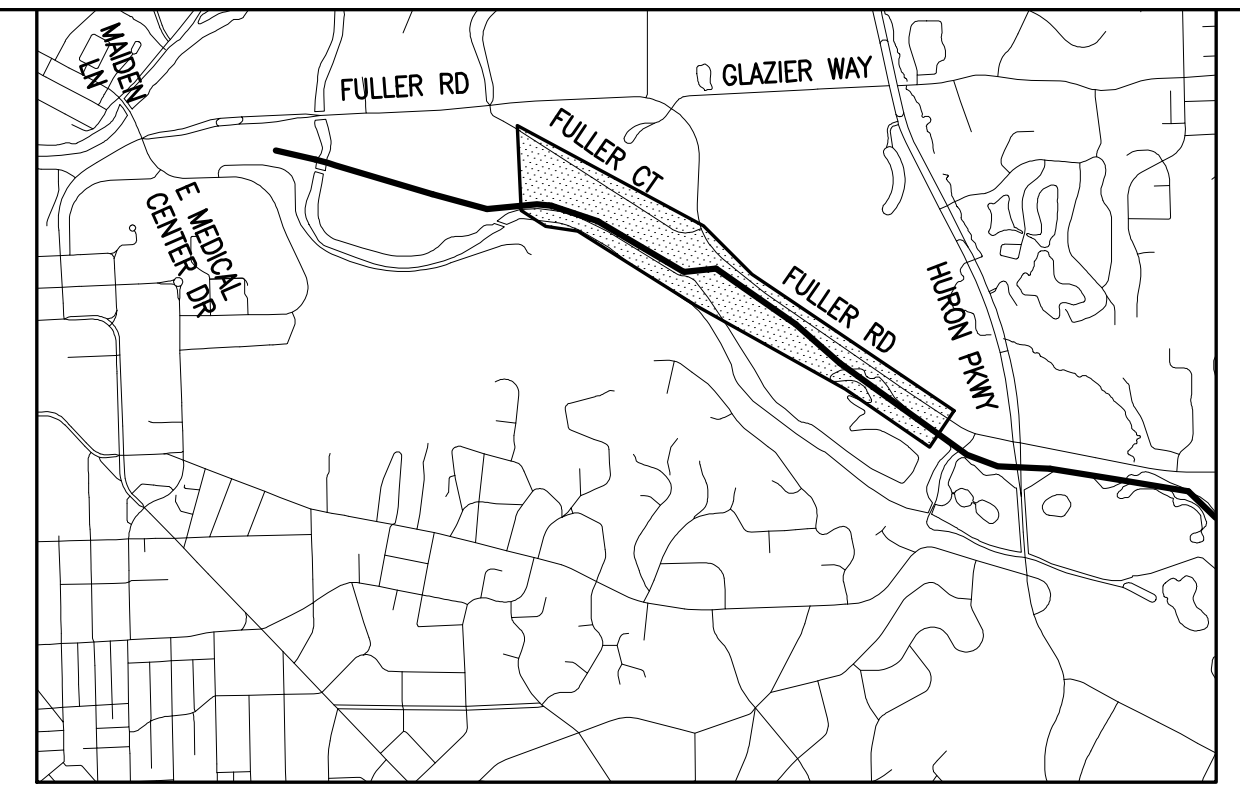
PIPE SUMMARY

Segment	Upstream MH	to	Downstream MH	Sheet No.	Pipe Size (inches)	Pipe Material	Slope (%)	Average Depth (feet)	Estimated Length (feet)	Sensors to Use*	Average flow Depth (inches)	Estimated Sludge Depth (inches)
7	71-68848		71-68846	6	78	RCP	0.06	15.8	507	TV, L, S, G	30.0	0.0
8	71-68846		71-70069	6	78	RCP	0.06	13.2	1,043	TV, L, S, G	30.0	0.0
9	71-70069		71-70068	6	78	RCP	0.06	16.6	334	TV, L, S, G	30.0	0.0
10	71-70068		71-70065	6	78	RCP	0.06	19.4	1,013	TV, L, S, G	30.0	0.0
11	71-70065		71-70064	6	78	RCP	0.06	17.7	614	TV, L, S, G	30.0	0.0
12	71-70064		71-70087	6	78	RCP	0.06	15.9	1,632	TV, L, S, G	36.0	0.0
Totals											5,143	

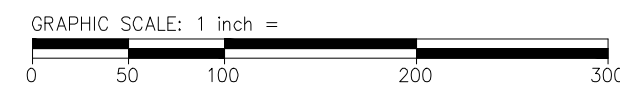
* Sensors - 'TV' = CCTV, 'L' = Laser, 'S' = Sonar, 'G' = Gas

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KEY PLAN
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LEGEND

- Os 71-XXXX SANITARY MH & STRUCTURE NUMBER
- Os 71-XXXX SANITARY MH FOR ACCESS

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REVISIONS:

NO.	DATE	DESCRIPTION
1	02/21/2020	ISSUED FOR PERMITS

DATE: 02/21/2020
 PROJ. NUMBER: 022-17-200
 ENG: GT
 PROJ. MGR: GT
 CAD: PR
 COUNTY: WASHTENAW
 CITY/VILLAGE/TOWNSHIP: ANN ARBOR
 VERT DATUM: NAVD83
 HORIZ DATUM: NAD83
 SCALE: H: AS NOTED V: N/A
 H: AS NOTED V: N/A

CITY OF ANN ARBOR
NORTHSIDE INTERCEPTOR
INSPECTION PLAN



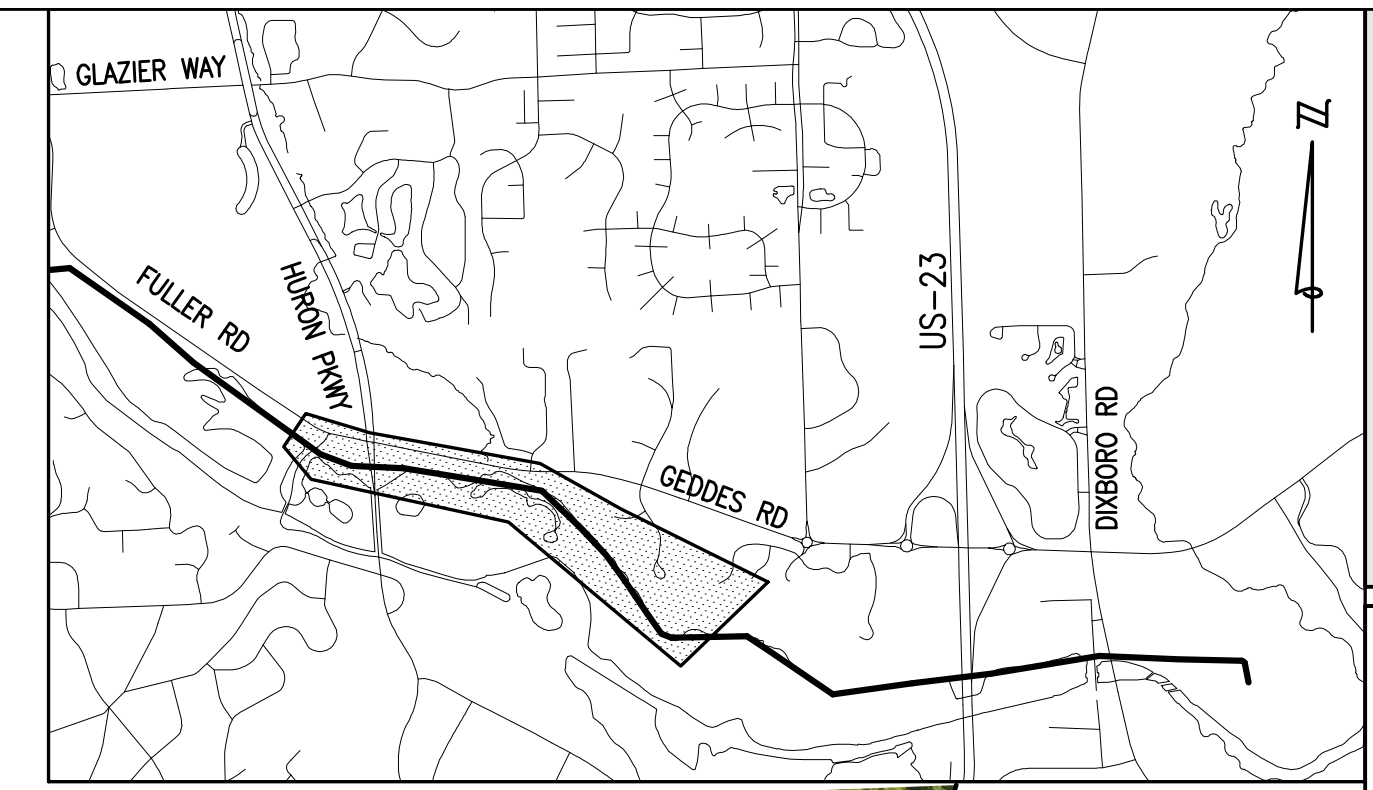
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STRUCTURE SUMMARY											
No.	Structure ID	Structure Type ¹	Location ²	Surface Type ³	Field Located (Y/N)	Available for TV Access (Y/N)	Accessible by Road/Trail (Y/N)	F&C Opening (inches)	Chimney/Cone Dia. (inches)	Wall Dia. / L-W-H (inches)	Estimated Depth (feet)
13	***71-70087	J	G	D	Y	Y	Y	24.0	23.0	120x78x78	18.7
14	71-70084	S	G	D	Y	N	Y	30.0	24.0	48	14.9
15	71-70086	S	G	D	Y	N	Y	30.0	24.0	48	16.4
16	71-70085	S	E	D	N	N	N	30.0	24.0	48	16.8
17	71-65747	S	E	D	N	N	N	30.0	24.0	48	9.1
18	71-65676	S	Z	O	N	N	N	30.0	24.0	48	16.0
19	71-61882	S	E	D	N	N	N	30.0	24.0	48	17.3
Totals											109.1

PIPE SUMMARY												
Segment	Upstream MH	to	Downstream MH	Sheet No.	Pipe Size (inches)	Pipe Material	Slope (%)	Average Depth (feet)	Estimated Length (feet)	Sensors to Use*	Average flow Depth (inches)	Estimated Sludge Depth (inches)
13	71-70087		71-70084	7	78	RCP	0.06	16.8	885	TV, L, S, G	36.0	0.0
14	71-70084		71-70086	7	78	RCP	0.06	15.6	700	TV, L, S, G	36.0	0.0
15	71-70086		71-70085	7	78	RCP	0.06	16.6	765	TV, L, S, G	36.0	0.0
16	71-70085		71-65747	7	78	RCP	0.06	12.9	522	TV, L, S, G	30.0	0.0
17	71-65747		71-65676	7	78	RCP	0.06	12.6	424	TV, L, S, G	30.0	0.0
18	71-65676		71-61882	7	78	RCP	0.06	16.6	1,122	TV, L, S, G	30.0	0.0
19	71-61882		71-61880	7	78	RCP	0.06	17.3	785	TV, L, S, G	30.0	0.0
Totals									5,203			



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¹ Structure Type - 'S' = Standard, 'D' = Drop Structure, 'J' = Junction Chamber
² Location - Per MACP Coding
³ Surface Type - Per MACP Coding; 'O' = Other; River Bank
** Structure is accessible through temporary access easement - to be obtained by City
*** Available CCTV access points

* Sensors - 'TV' = CCTV, 'L' = Laser, 'S' = Sonar, 'G' = Gas



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LEGEND
Os 71-XXXXX SANITARY MH & STRUCTURE NUMBER
Os 71-XXXXX SANITARY MH FOR ACCESS

811
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DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	H. AS NOTED	V. N/A	HORIZ DATUM	VERT DATUM
02/27/2020	0028-17-040		GT	PR	WASHTENAW	ANN ARBOR				NAD83	NAVD83

CITY OF ANN ARBOR
NORTHSIDE INTERCEPTOR
INSPECTION PLAN

SHEET **7**
OF 10

DRAWING PATH: P:\0000_0100002817040_Northside_InterceptorDrawings\CivilPlans_Const\17040CON.dwg Dec 19, 2017 - 8:35pm

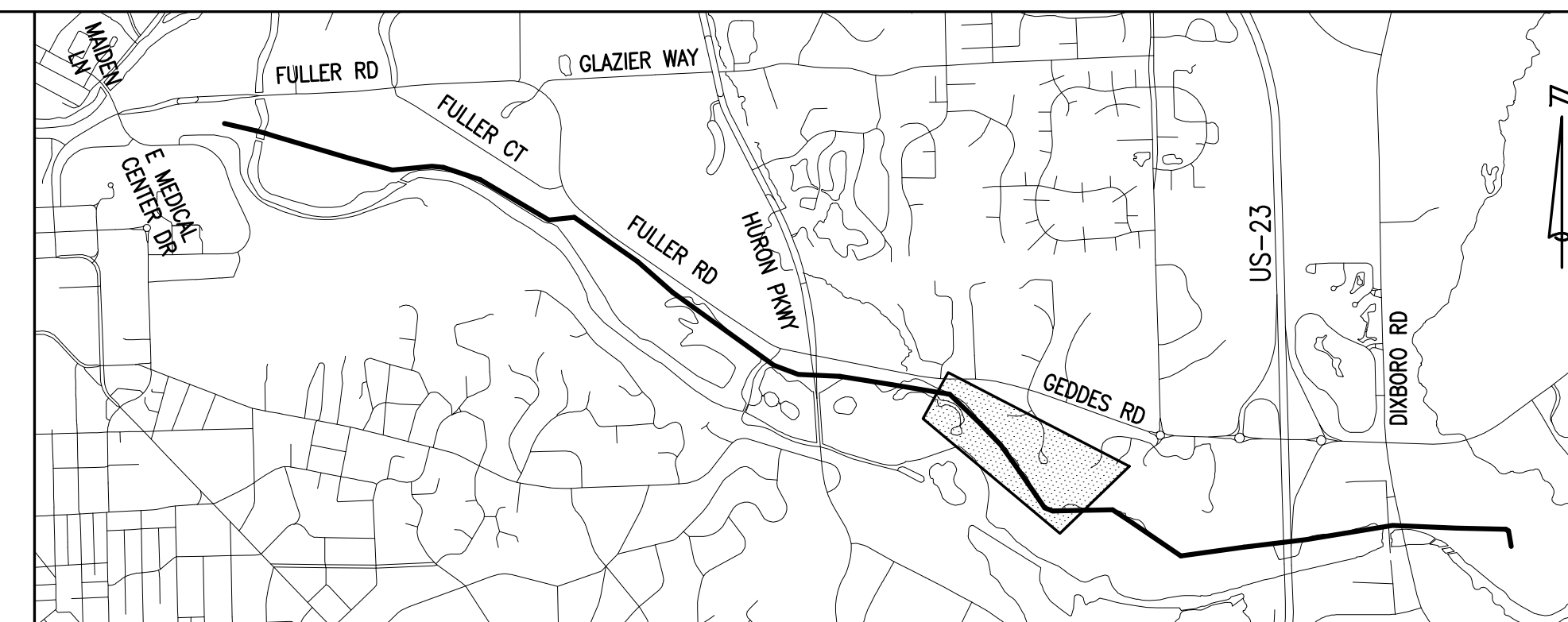
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STRUCTURE SUMMARY											
No.	Structure ID	Structure Type ¹	Location ²	Surface Type ³	Field Located (Y/N)	Available for TV Access (Y/N)	Accessible by Road/Trail (Y/N)	F&C Opening (inches)	Chimney/Cone Dia. (inches)	Wall Dia. / L-W-H (inches)	Estimated Depth (feet)
20	71-61880	S	Z	O	Y	N	N	30.0	24.0	48	17.8
21	***71-61492	S	G	D	Y	Y**		30.0	25.0	48	19.4
22	71-61468	D	E	D	Y	N	Y	30.0	24.0	48	19.1
Totals											56.3

¹ Structure Type - 'S' = Standard, 'D' = Drop Structure, 'J' = Junction Chamber
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 *** Available CCTV access points

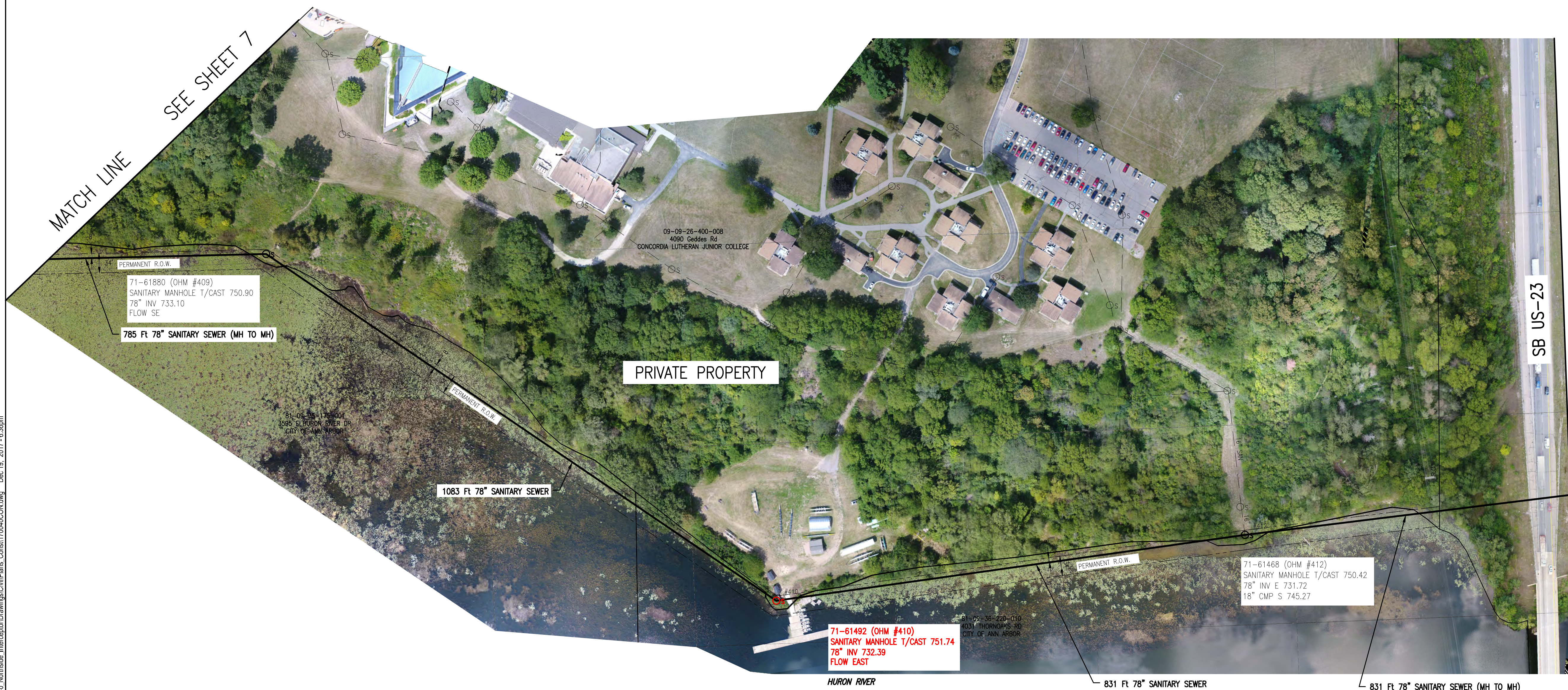
PIPE SUMMARY											
Segment	Upstream MH	Downstream MH	Sheet No.	Pipe Size (inches)	Pipe Material	Slope (%)	Average Depth (feet)	Estimated Length (feet)	Sensors to Use*	Average flow Depth (inches)	Estimated Sludge Depth (inches)
20	71-61880	71-61492	8	78	RCP	0.06	18.6	1,083	TV, L, S, G	30.0	0.0
21	71-61492	71-61468	8	78	RCP	0.06	19.2	831	TV, L, S, G	30.0	0.0
22	71-61468	71-61013	8	78	RCP	0.06	19.1	831	TV, L, S, G	30.0	0.0
Totals								2,745			

* Sensors - 'TV' = CCTV, 'L' = Laser, 'S' = Sonar, 'G' = Gas



KEY PLAN
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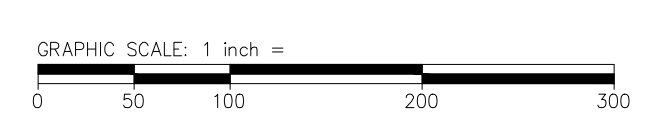


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LEGEND

- Os 71-XXXX SANITARY MH & STRUCTURE NUMBER
- Os 71-XXXX SANITARY MH FOR ACCESS



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DATE	PROJ NUMBER	ENG	PROJ INGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
02/27/2020			GT	PR	WASHTENAW	ANN ARBOR	H: AS NOTED V: N/A	NAD83	NAVD83

CITY OF ANN ARBOR
NORTHSIDE INTERCEPTOR
INSPECTION PLAN

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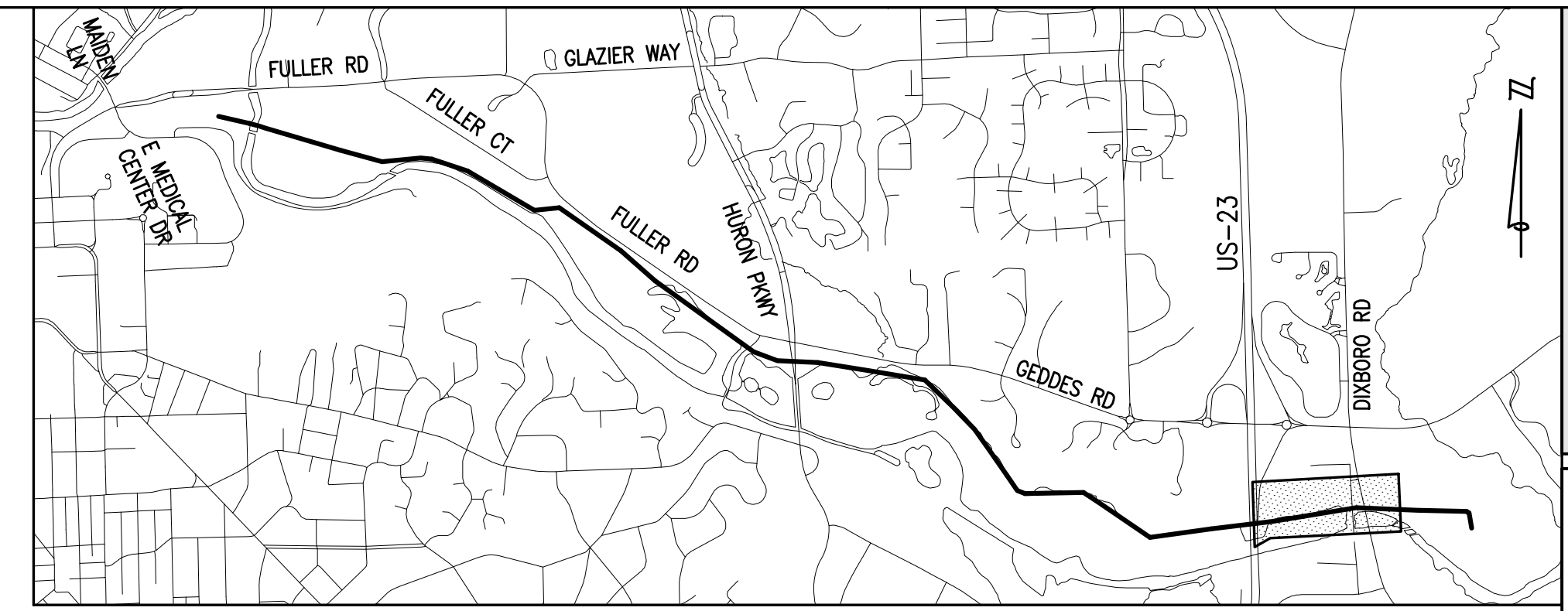
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STRUCTURE SUMMARY											
No.	Structure ID	Structure Type ¹	Location ²	Surface Type ³	Field Located (Y/N)	Available for TV Access (Y/N)	Accessible by Road/Trail (Y/N)	F&C Opening (Inches)	Chimney/Cone Dia. (Inches)	Wall Dia. / L-W-H (Inches)	Estimated Depth (feet)
23	71-61013	S	E	D	N	N	N	30.0	24.0	48	18.7
24	***71-61045	S	C	D	Y	Y	Y	21.5	26.0	48	15.7
Totals											34.4

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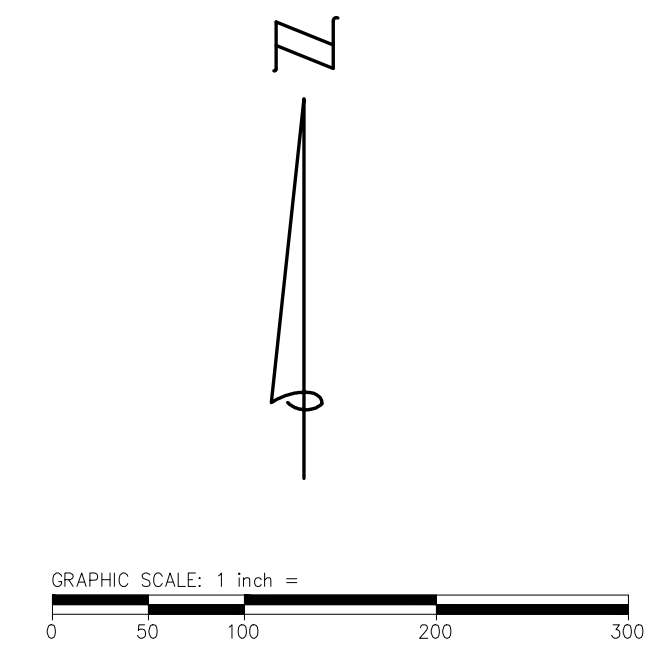
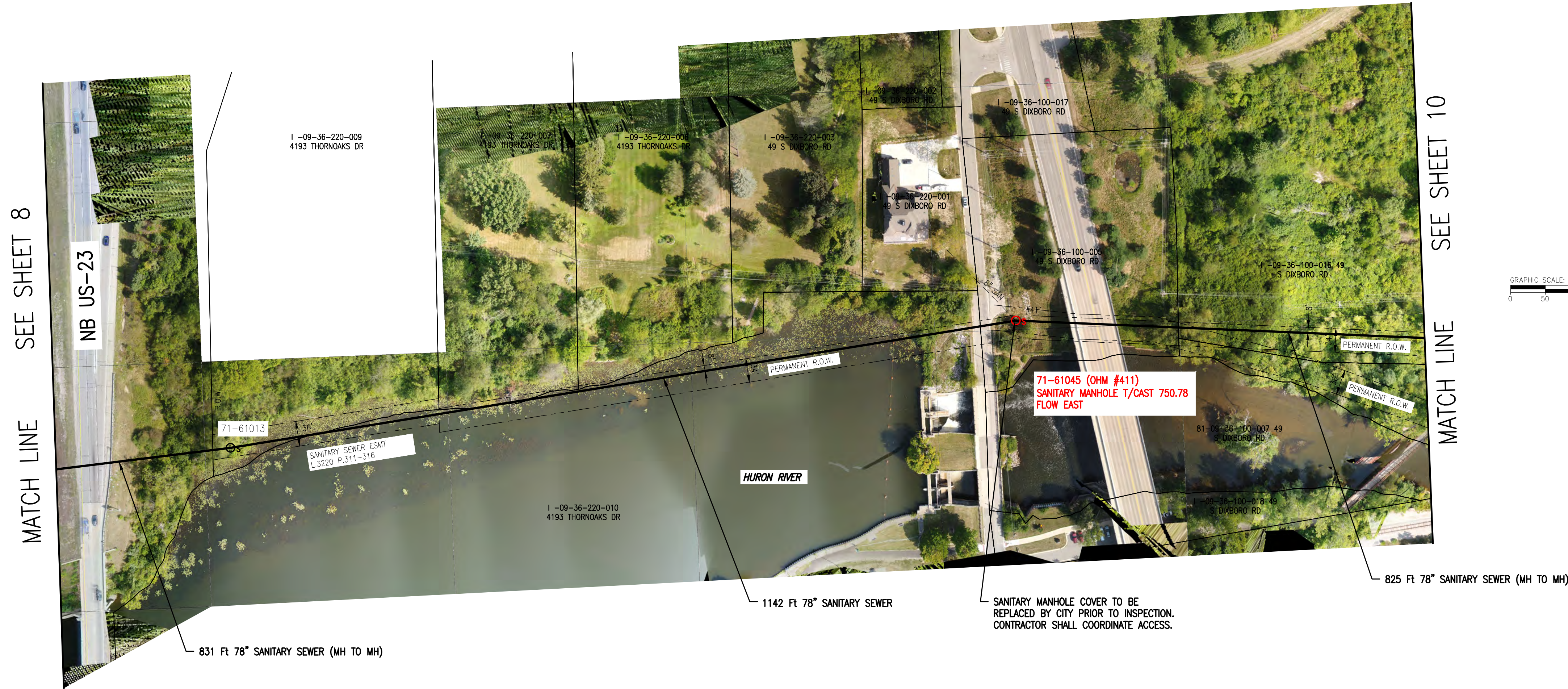
PIPE SUMMARY											
Segment	Upstream MH	Downstream MH	Sheet No.	Pipe Size (Inches)	Pipe Material	Slope (%)	Average Depth (feet)	Estimated Length (feet)	Sensors to Use*	Average flow Depth (Inches)	Estimated Sludge Depth (Inches)
23	71-61013	71-61045	9	78	RCP	0.06	17.2	1,142	TV, L, S, G	30.0	0.0
24	71-61045	71-61873	9	78	RCP	0.06	15.7	825	TV, L, S, G	36.0	0.0
Totals								1,967			

* Sensors - 'TV' = CCTV, 'L' = Laser, 'S' = Sonar, 'G' = Gas



KEY PLAN
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MATCH LINE SEE SHEET 8

SEE SHEET 10 MATCH LINE

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LEGEND

- Os 71-XXXXX SANITARY MH & STRUCTURE NUMBER
- Os 71-XXXXX SANITARY MH FOR ACCESS



Know what's below.
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REVISIONS:

HORIZ. DATUM: NAD83

SCALE: V: N/A

CITY/VILLAGE/TOWNSHIP: ANN ARBOR

COUNTY: WASHTENAW

PR: AN ARBOR

PROJ. INGR: GT

ENG: 0228-17-040

DATE: 02/28/2017

SHEET: 9

OF 10

CITY OF ANN ARBOR
NORTHSIDE INTERCEPTOR
INSPECTION PLAN

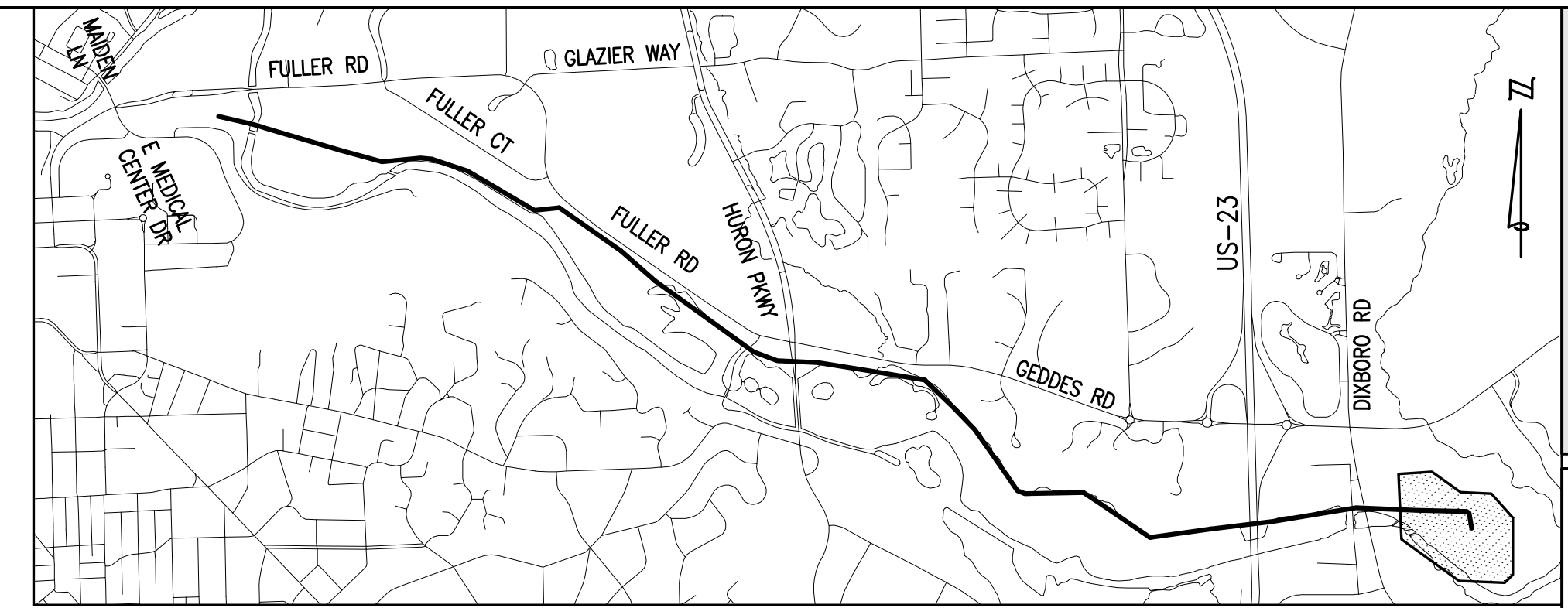
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STRUCTURE SUMMARY											
No.	Structure ID	Structure Type ¹	Location ²	Surface Type ³	Field Located (Y/N)	Available for TV Access (Y/N)	Accessible by Road/Trail (Y/N)	F&C Opening (inches)	Chimney/Cone Dia. (inches)	Wall Dia. / L-W-H (inches)	Estimated Depth (feet)
25	71-61873	J	Y	D	N	Y	N	30.0	24.0	117x78x78	17.1
26	71-61878	S	Y	D	N	Y	N	30.0	24.0	48	22.7
	***71-61017	Control			N	Y	Y	N/A	N/A	N/A	16.0
	71-61874	S			N	Y	Y	N/A	N/A	N/A	10.0
Totals											65.8

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PIPE SUMMARY											
Segment	Upstream MH	Downstream MH	Sheet No.	Pipe Size (inches)	Pipe Material	Slope (%)	Average Depth (feet)	Estimated Length (feet)	Sensors to Use*	Average flow Depth (inches)	Estimated Sludge Depth (inches)
25	71-61873	71-61878	10	78	RCP	0.06	19.9	657	TV, L, S, G	36.0	0.0
26	71-61878	WWTP	10	78	RCP	0.06	22.7	248	TV, L, S, G	36.0	0.0
	71-61017	71-61874	10	36	RCP	0.4	10.8	263	TV, L, S, G	N/A	N/A
	71-61874	71-61873	10	36	RCP	0.4	15.0	32	TV, L, S, G	N/A	N/A
Totals								1,200			

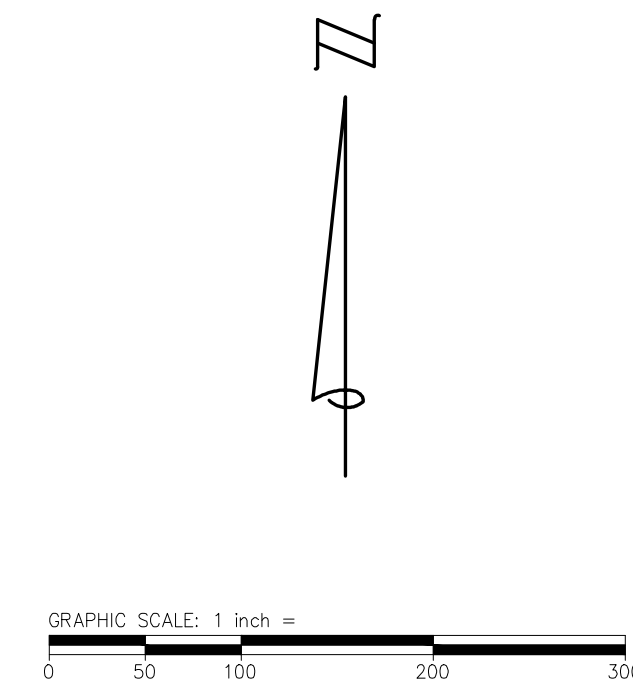
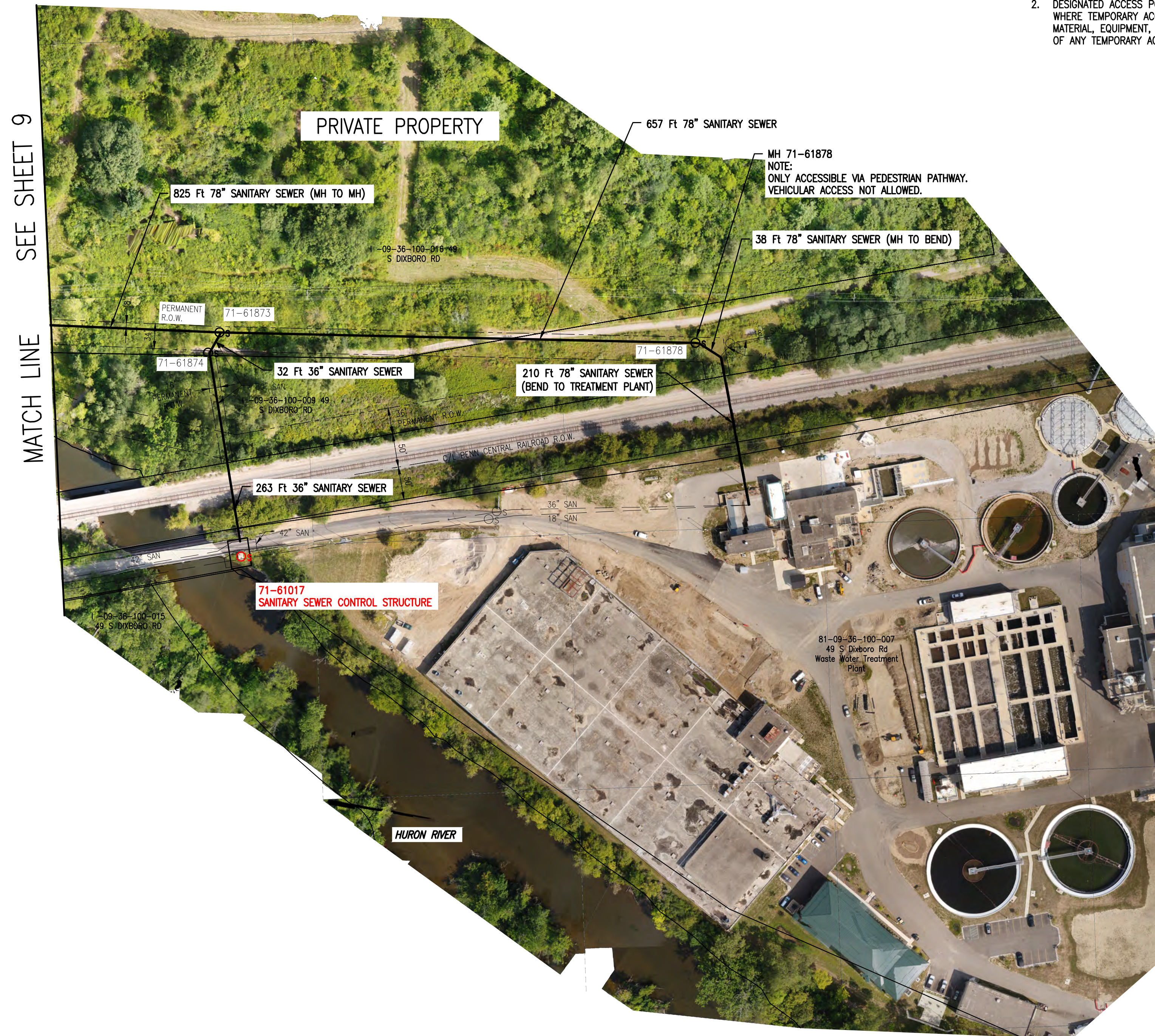
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KEY PLAN
NOT TO SCALE

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LEGEND

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- Os 71-XXXX SANITARY MH FOR ACCESS



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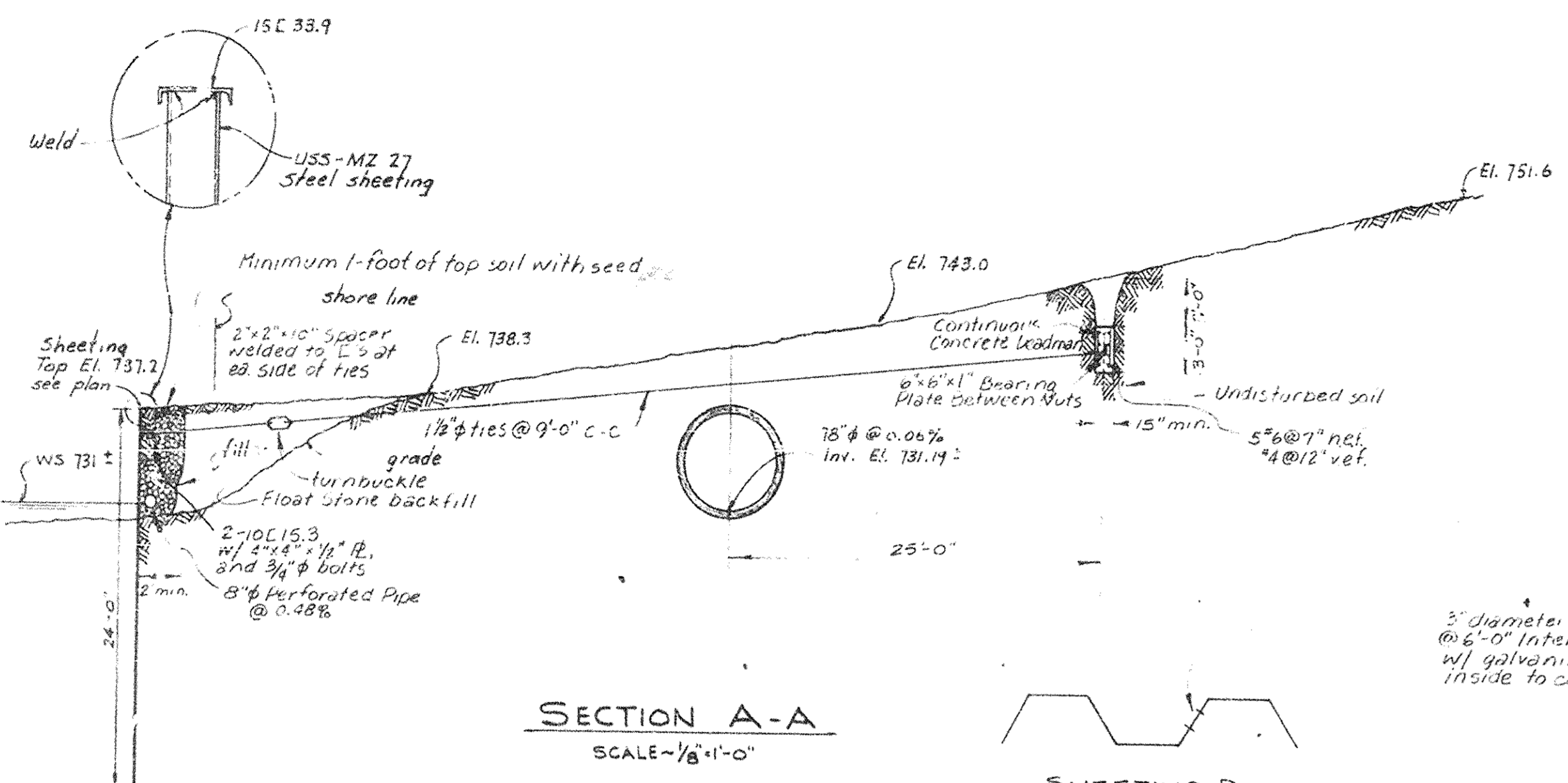
REVISIONS:
| | | | |

CITY OF ANN ARBOR
NORTHSIDE INTERCEPTOR
INSPECTION PLAN

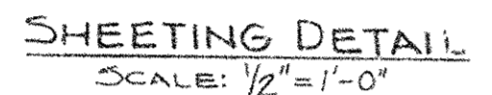
DATE: 02/27/2020
PROJ NUMBER: 022-17-2040
ENG: GT
CADD: PR
COUNTY: WASHTENAW
CITY/VILLAGE/TOWNSHIP: ANN ARBOR
SCALE: H: AS NOTED V: N/A
HORIZ DATUM: NAD83
VERT DATUM: NAVD83

DRAWING PATH: P:\0000_0100002817040_Northside_InterceptorDrawings\Civil\Plans_Const\17040CON.dwg Dec 19, 2017 - 6:37pm

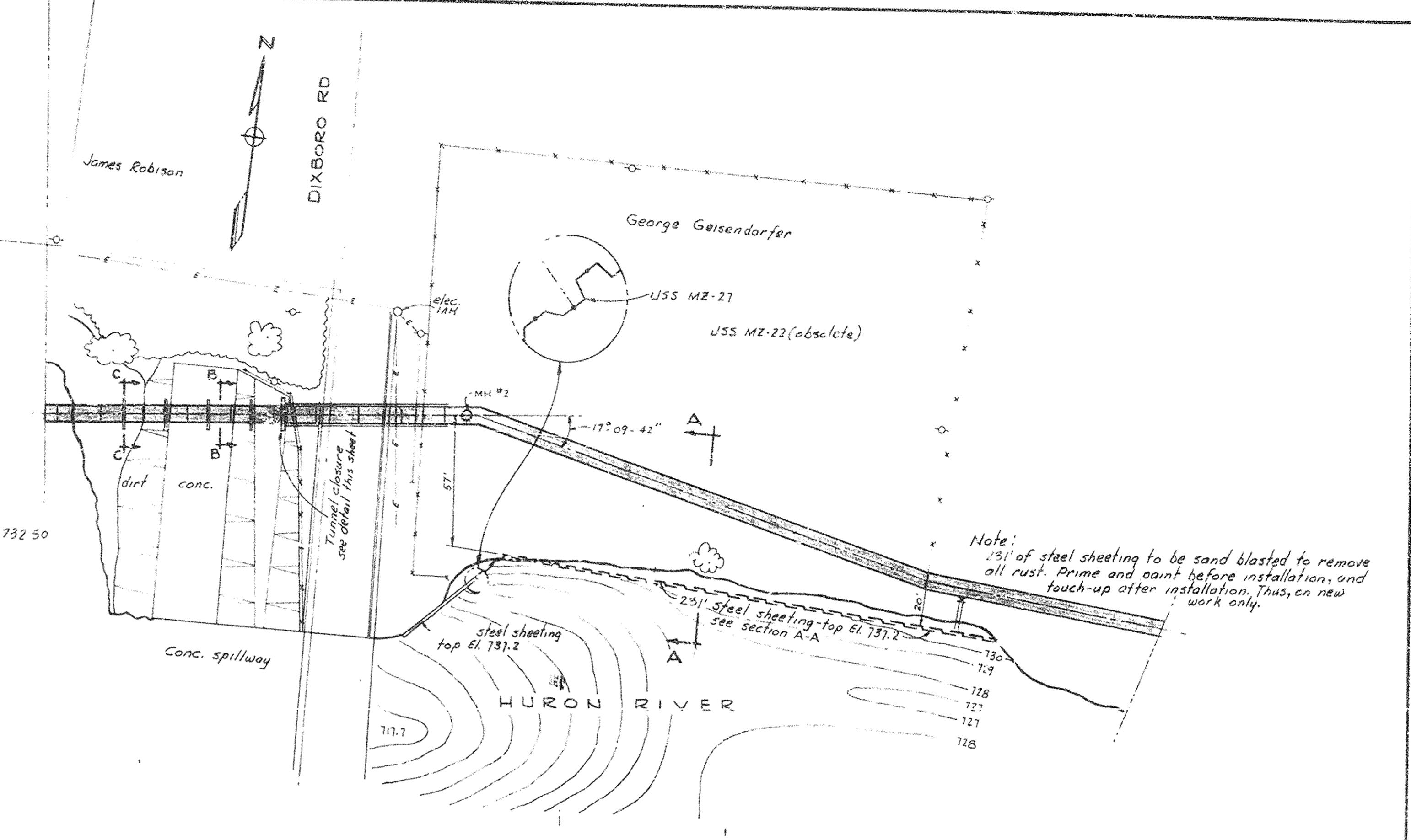
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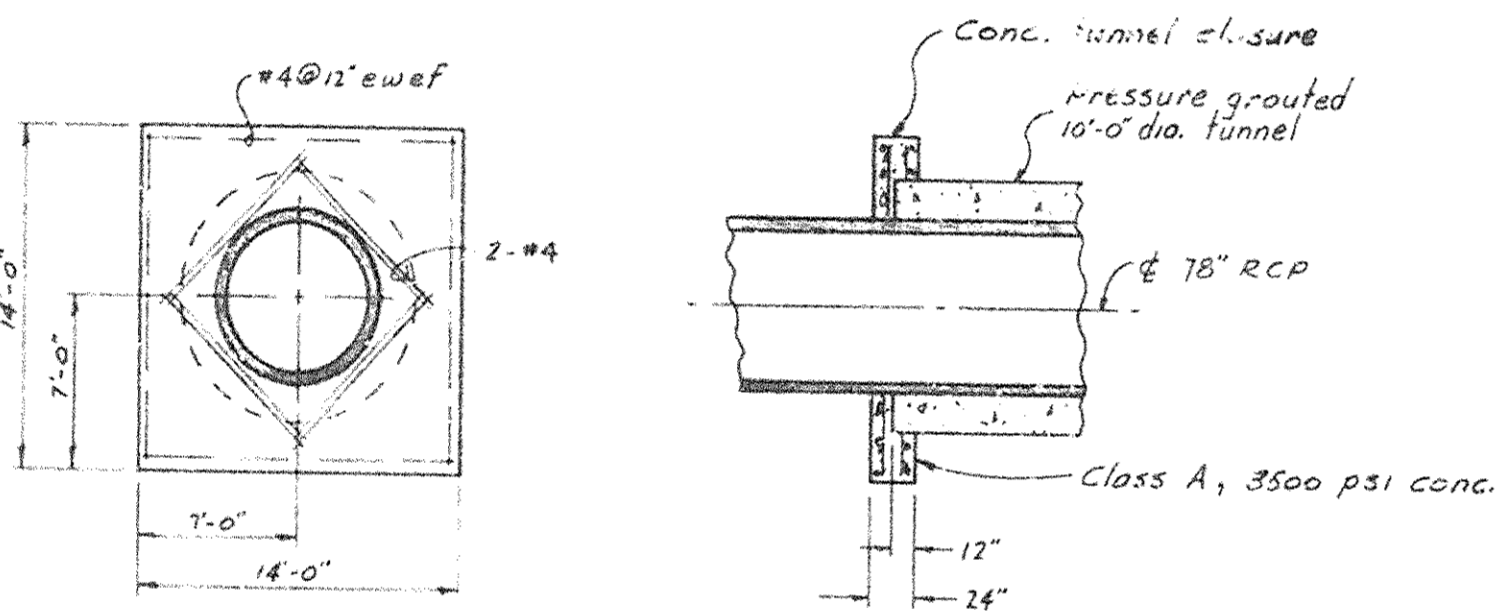
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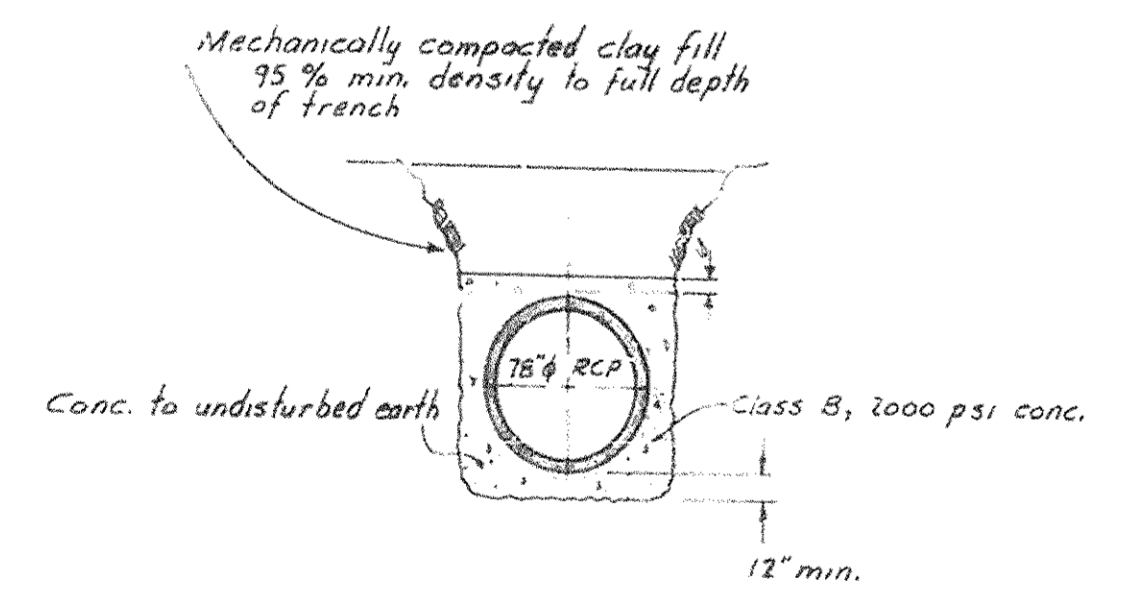
SHEETING DETAIL
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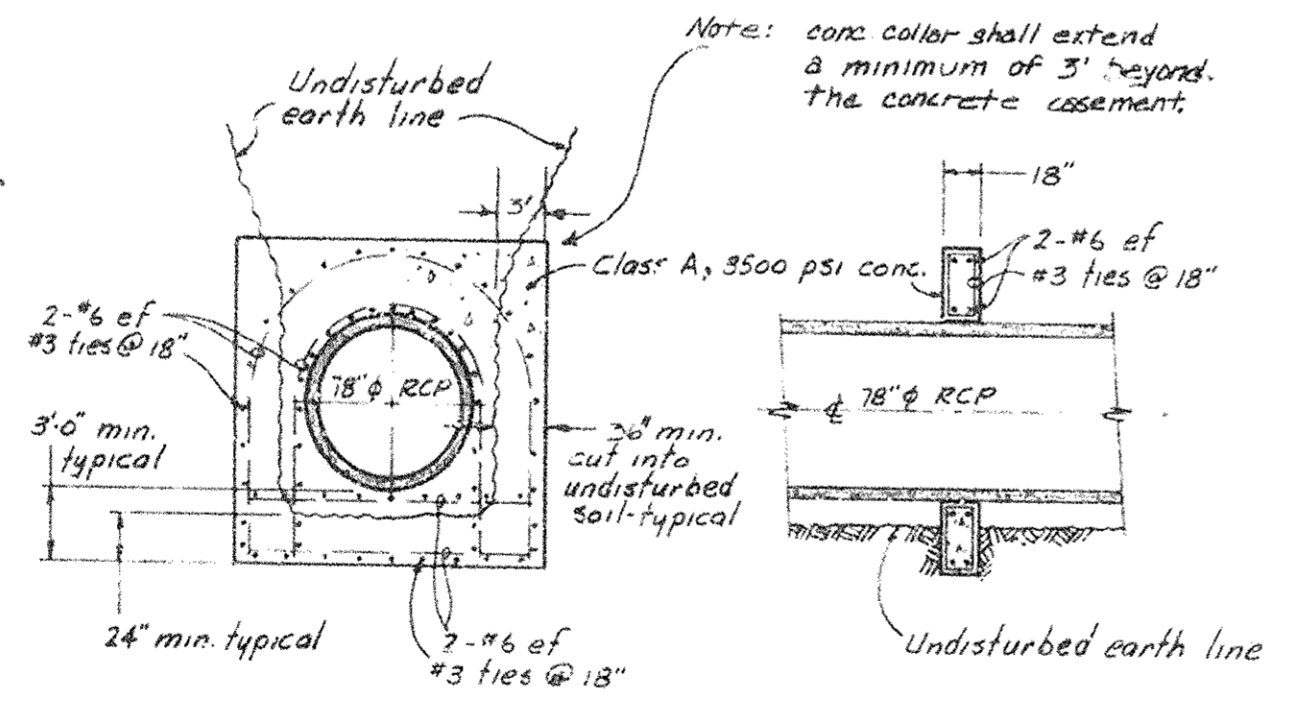
PLAN
SCALE: 1"=40'-0"



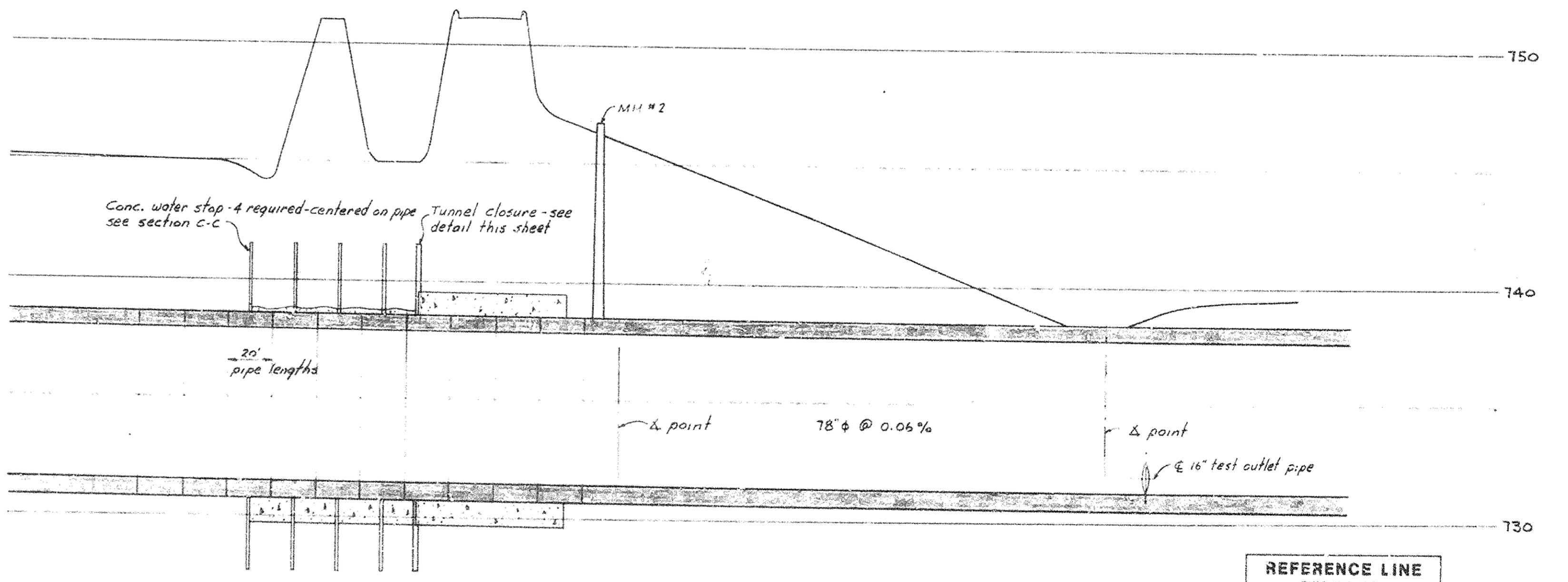
TUNNEL CLOSURE
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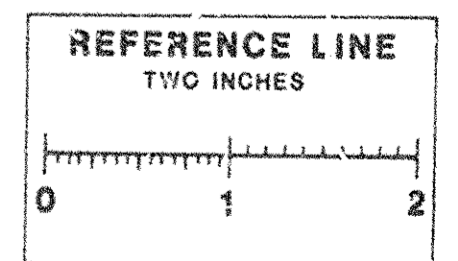
SECTION B-B
SCALE: 1/8"=1'-0"



SECTION C-C
SCALE: 1/8"=1'-0"

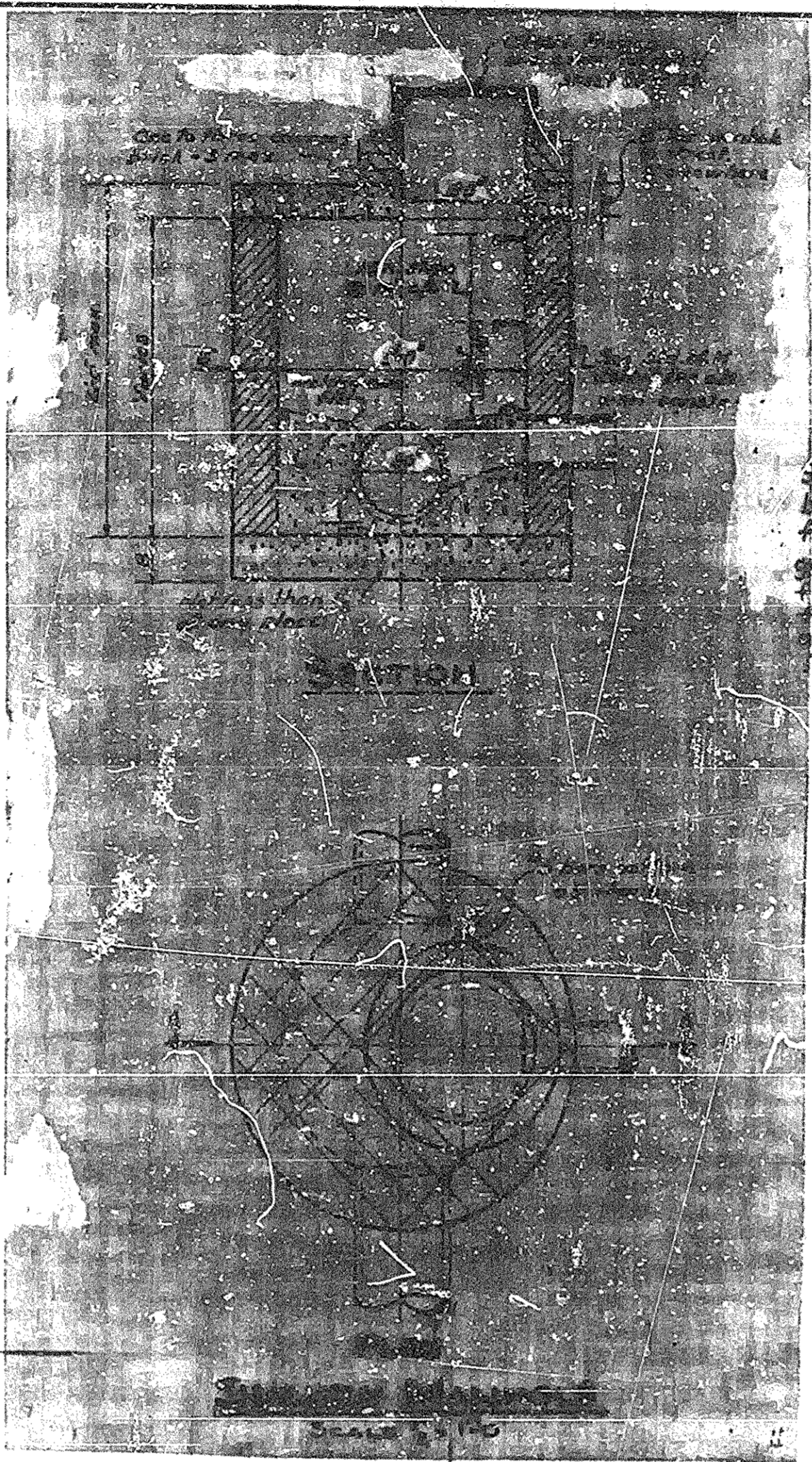
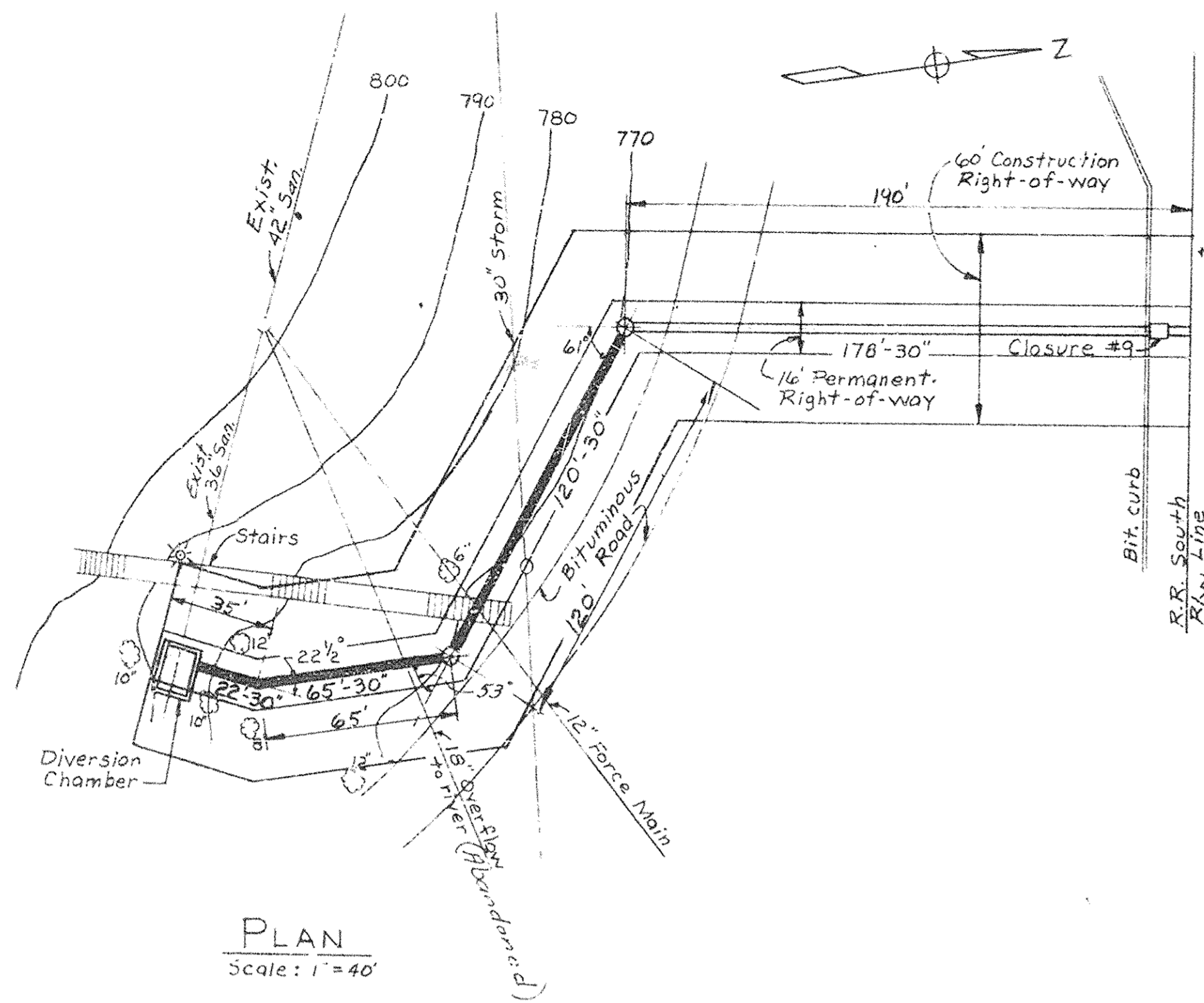


PROFILE
HORIZONTAL SCALE: 1"=4'-0"
VERTICAL SCALE: 1"=4'-0"

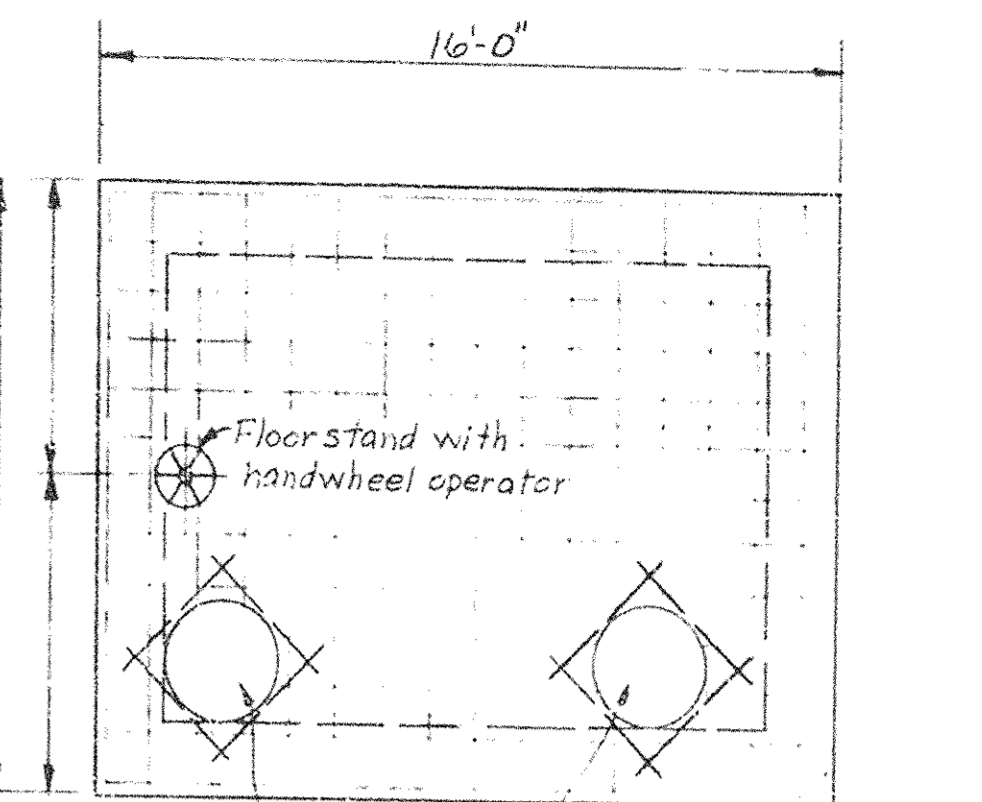
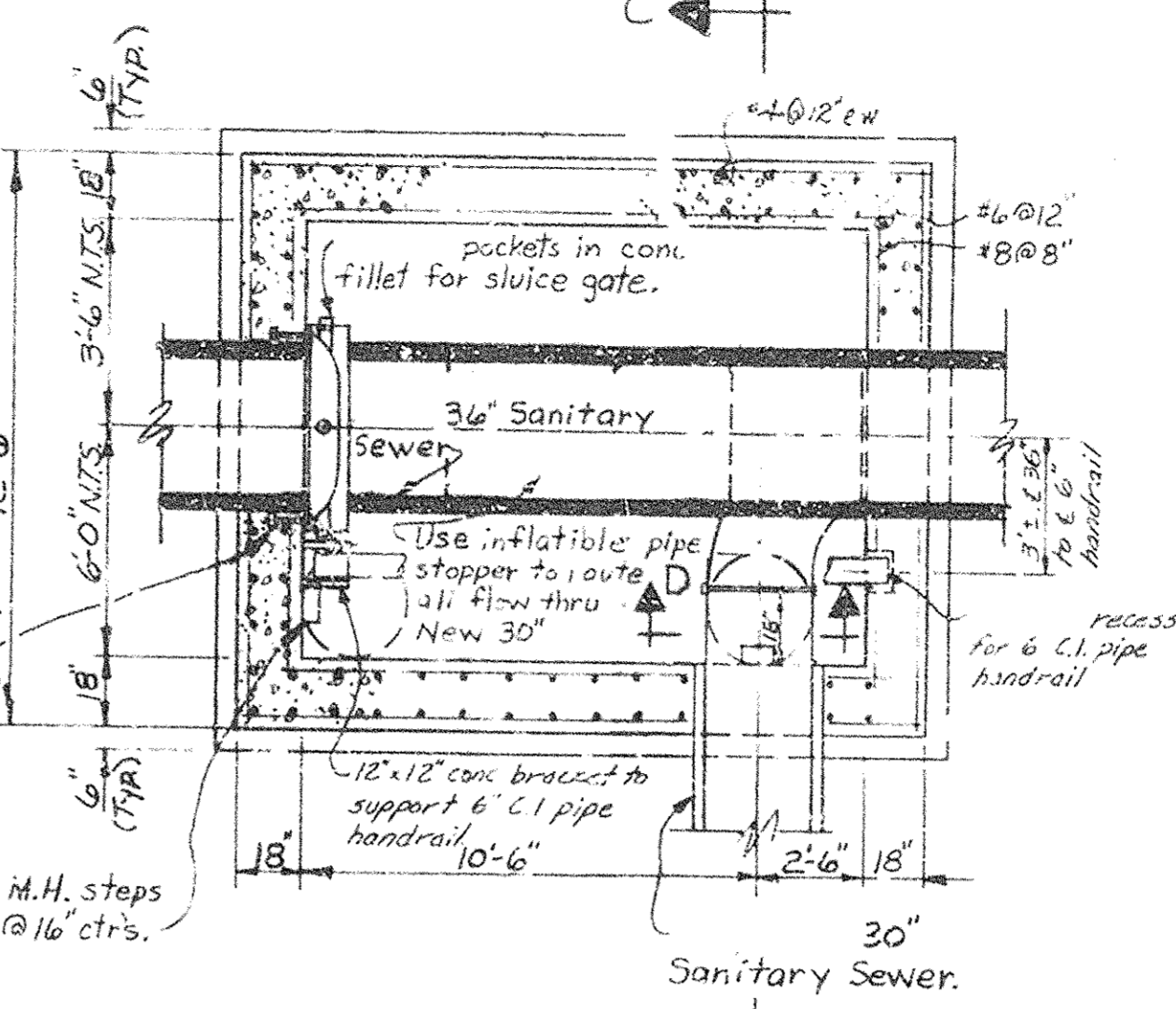


Note: Refer to Contract Sheet #3

MCNAMEE, PORTER AND SEELEY CONSULTING ENGINEERS ANN ARBOR, MICHIGAN			WASHTENAW COUNTY, MICHIGAN BOARD OF PUBLIC WORKS		
SANITARY SEWER SYSTEM No. 1					
NORTHSIDE INTERCEPTOR SEWER WPS-MICH-1611					
SCALE AS NOTED	ISSUED JUNE, 1971				
DRAWN PCY	TRACED JMB	CHECKED PCY			
ISSUE	NATURE OF REVISION	DATE			
A	CHANGED SECT. B-B AND SECT. C-C	7/13/71			
CONTRACT		SHEET			
70-S-1		5-3		OF	



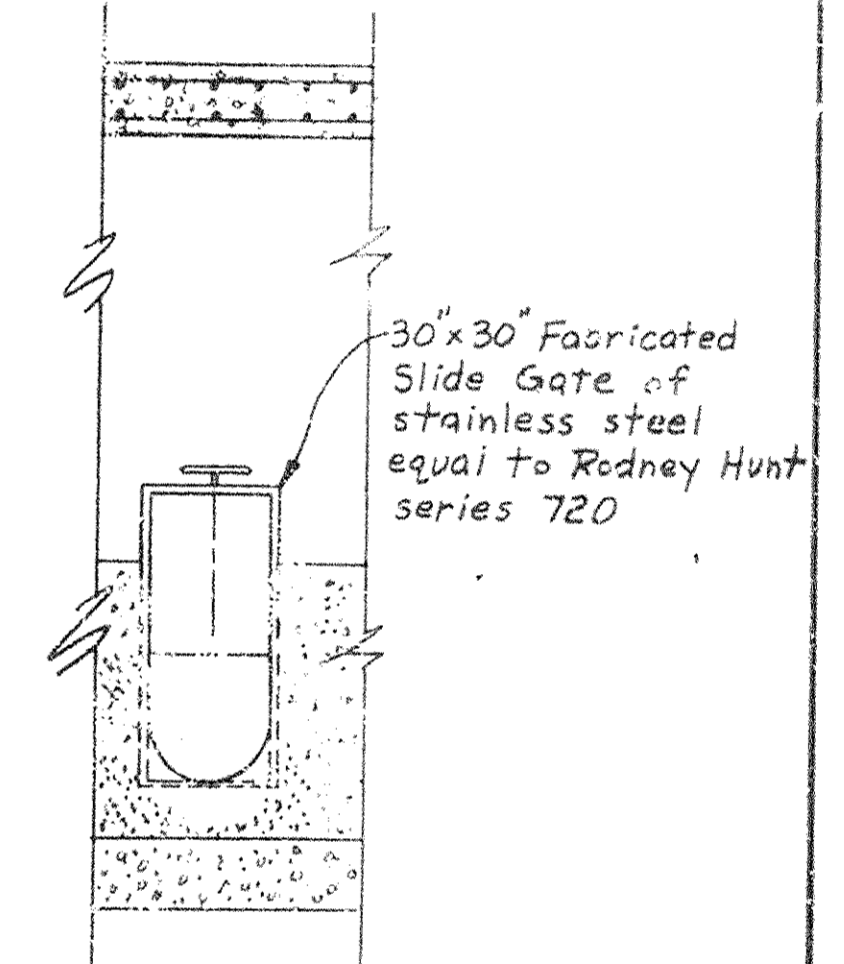
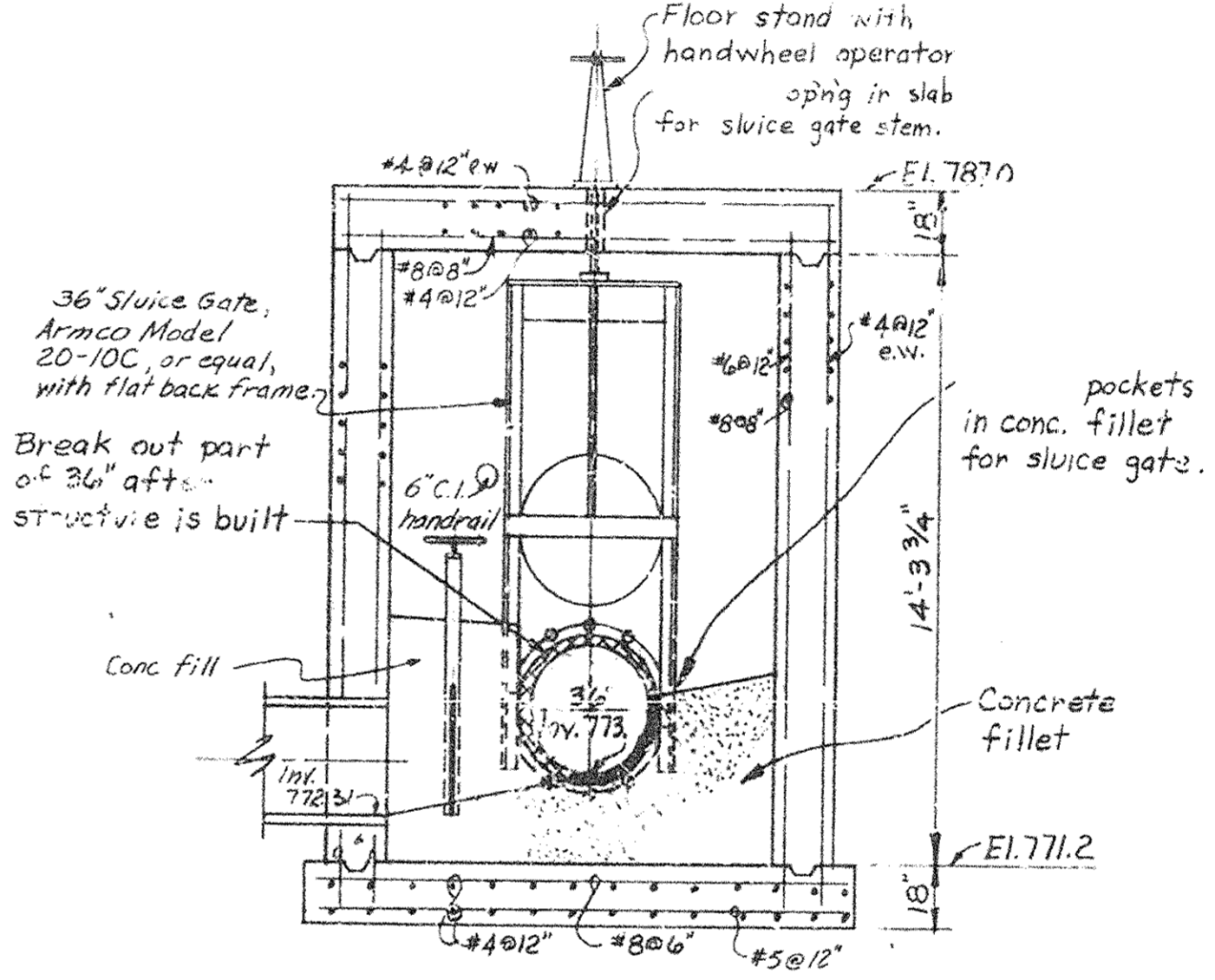
Get anchor bolts as req'd for sluice gate. Mount frame 2" from wall and grout in place.



Neenah 2-19.5-142 manhole frame and cover.

SECTIONAL PLAN

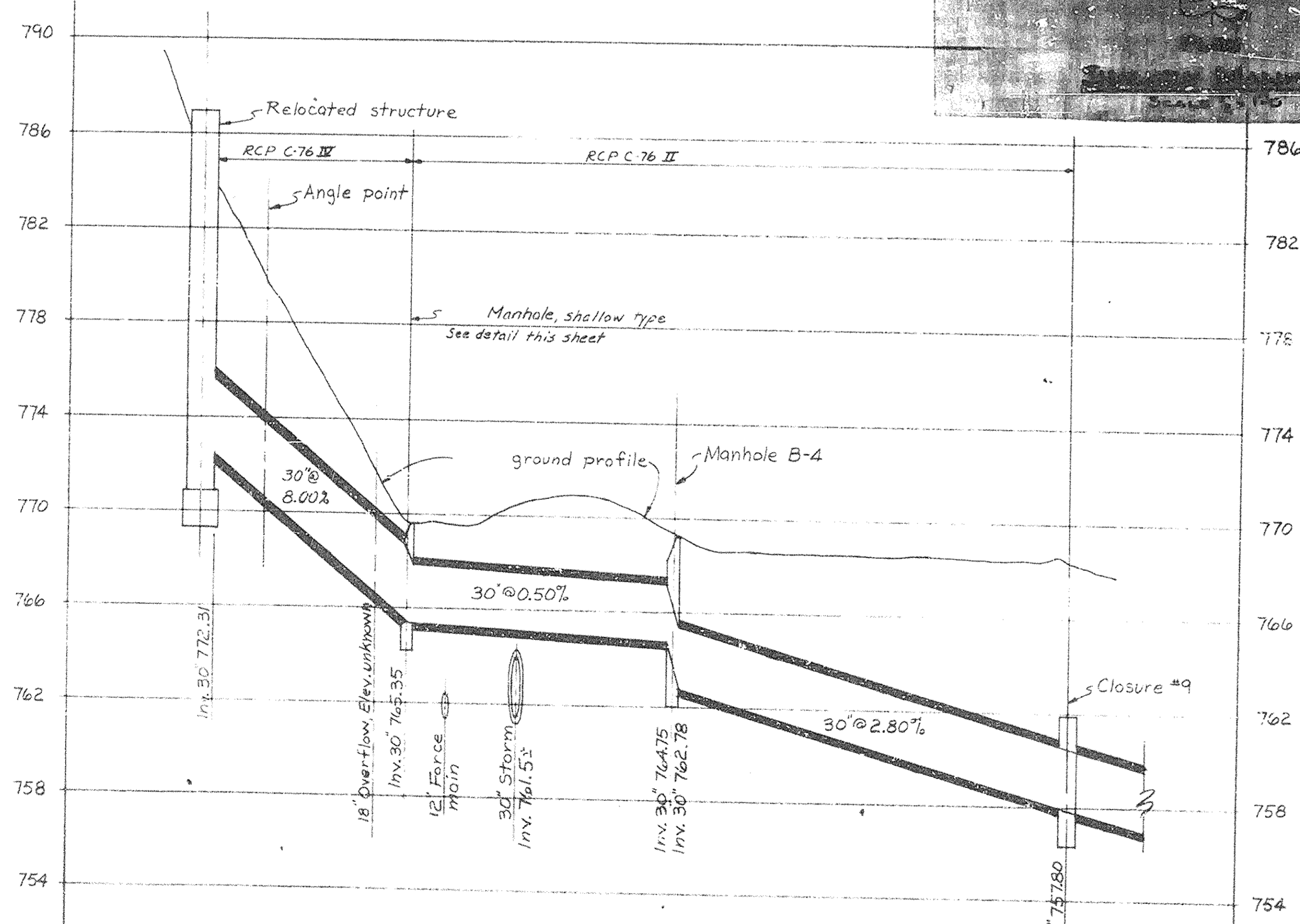
ROOF PLAN



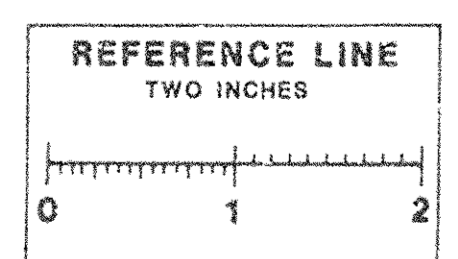
SECTION C-C

SECTION D-D

DIVERSION CHAMBER
Scale: 1/4"=1'-0"



PROFILE
Scale: Hor. 1"=40'
Vert. 1"=4'

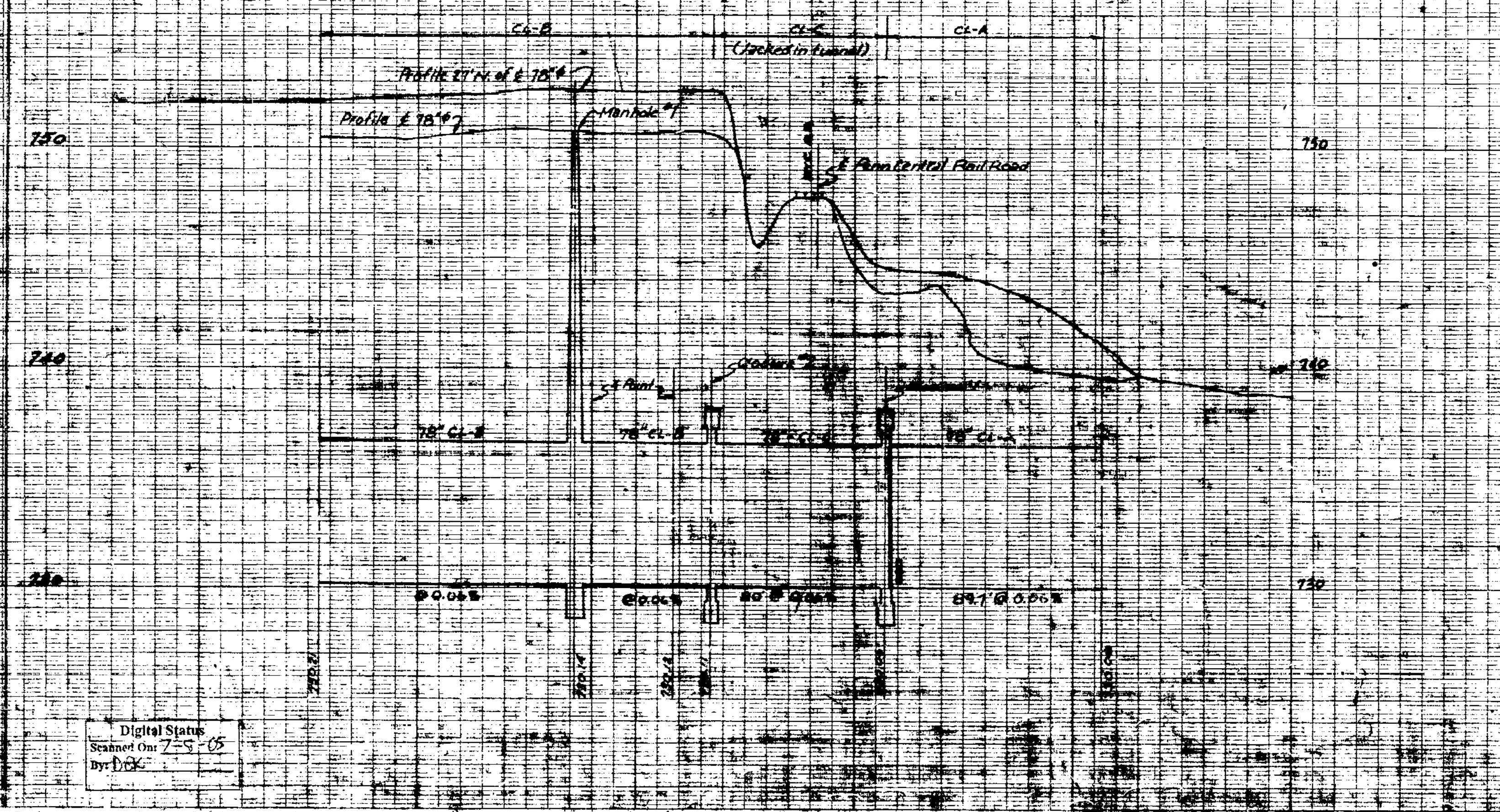
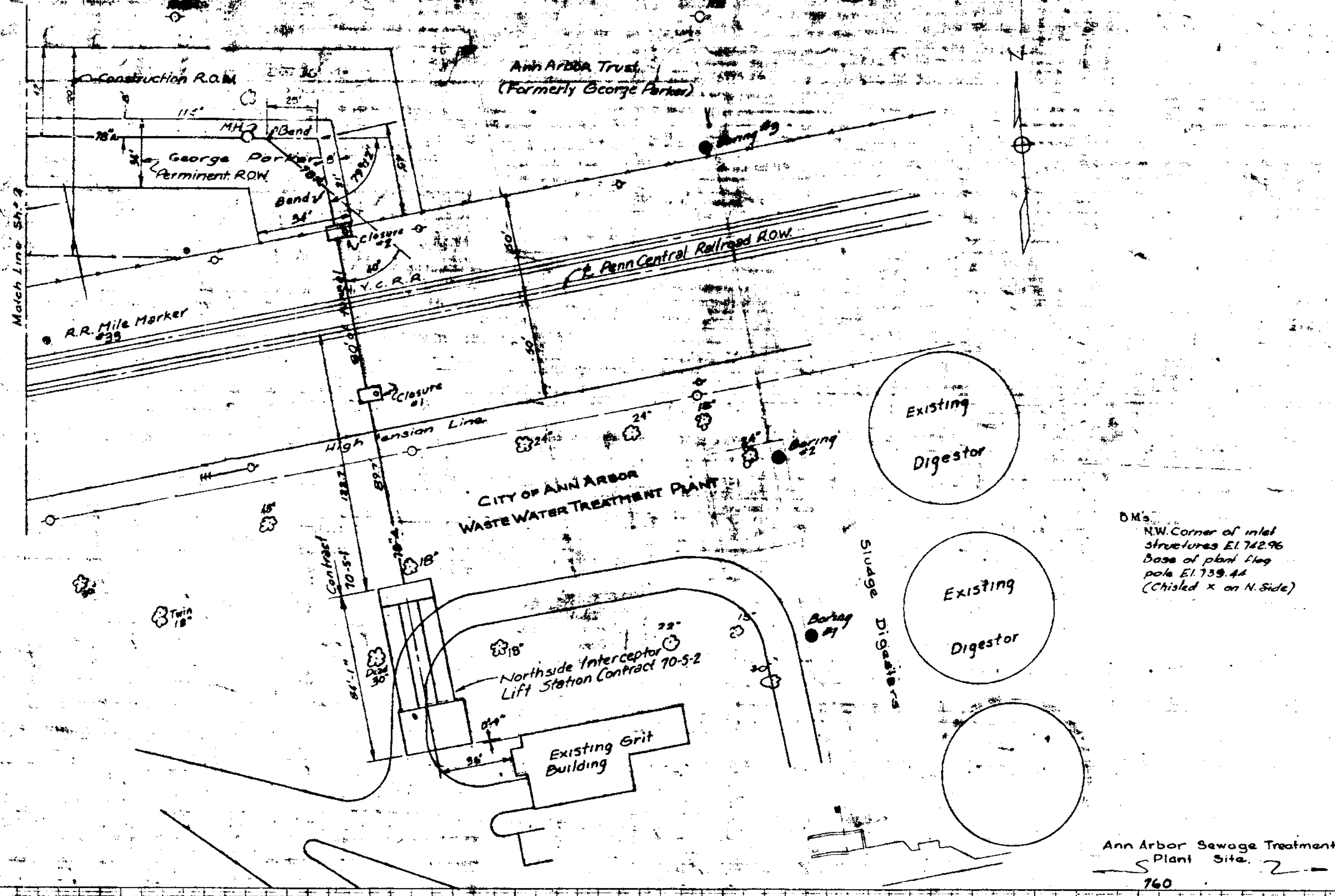
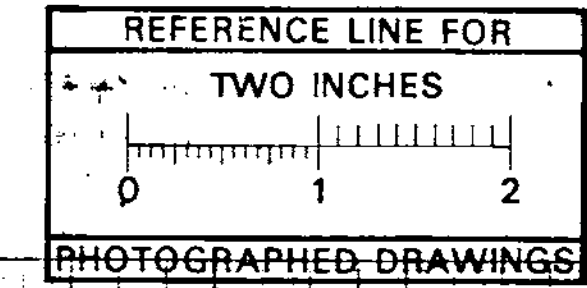


MCMANIS, PORTER AND SEELEY CONSULTING ENGINEERS ANN ARBOR, MICHIGAN				WASHTENAW COUNTY, MICHIGAN BOARD OF PUBLIC WORKS FOR THE CITY OF ANN ARBOR NORTHSIDE INTERCEPTOR REVISIONS TO 30-INCH SANITARY SEWER AND DIVERSION CHAMBER	
SCALE AS NOTED	ISSUED APRIL 1972			CONTRACT 70-5-1 WPC-Mich 1611 5-4 OF	
DRAWN RWE	TRACED MJE	CHECKED RFB			
ISSUE	NATURE OF REVISION	DATE			
Plan and profile re-located at 30' Sanitary and revisions to Diversion Chamber.			Diversion Chamber Revisions 5/17/72		

LEGEND

<p>ST. 1015 DRY 4</p> <p>INLET EX. 15" A.G.</p> <p>PIPE TYPE & SIZE</p> <p>— CENTER LINE MATCH LINE</p> <p>— 4" GAS MAIN</p> <p>— 8" WATER MAIN</p> <p>— UNDERGROUND TELEPHONE</p> <p>— UNDERGROUND ELECTRIC</p> <p>— OIL MAIN</p> <p>— DITCH & CULVERT; HEADWALL</p>	<p>— SURVEY LINE</p> <p>— EXISTING SEWER 30" & SMALLER IN PLAN (SAN., STORM COMBINED)</p> <p>— EXISTING SEWER 36" & LARGER IN PLAN (SAN., STORM COMBINED)</p> <p>— EXISTING MANHOLE</p> <p>— VALVE BOX - WATER, GAS</p> <p>— VALVE MANHOLE WATER, GAS</p> <p>— POWER &/OR TEL. POLE</p> <p>— UNDERGROUND STRUCTURE TELEPHONE, ELECTRIC, GAS, H₂O, OIL</p> <p>— BORING LOCATION & NUMBER</p> <p>— SIGN</p> <p>— WOOD STAKE</p> <p>— PROPOSED INLET OR CATCH BASIN & LEAD</p>	<p>— MONUMENT</p> <p>— PROPERTY IRON</p> <p>— BENCH MARK</p> <p>— RIGHT-OF-WAY MARKER</p> <p>— SECTION CORNER</p> <p>— FENCE</p> <p>— BURIED PIPE & SIZE</p> <p>— BUSH - HEIGHT</p> <p>— TREE STUMP & SIZE</p> <p>— GUARD POSTS</p> <p>— BUILDING</p>
---	--	---

<p>PLAN</p> <p>— DISTANCE & SIZE</p> <p>— PIPE SIZE</p> <p>— PROPOSED SEWERS 30" & SMALLER (S=SANITARY, R=STORM)</p> <p>— PROPOSED SEWERS & DRAINS 36" & LARGER</p>	<p>PROFILE</p> <p>— EXISTING UTILITIES (GAS, WATER, TELEPHONE, SEWERS, ETC.)</p> <p>— EXISTING MANHOLES OR STRUCTURES</p> <p>— PROPOSED MANHOLES OR STRUCTURES</p> <p>— PROPOSED SEWERS 30" & SMALLER</p> <p>— PROPOSED SEWERS & DRAINS 36" & LARGER</p> <p>— SIZE & TYPE</p> <p>— LENGTH & GRADE</p>
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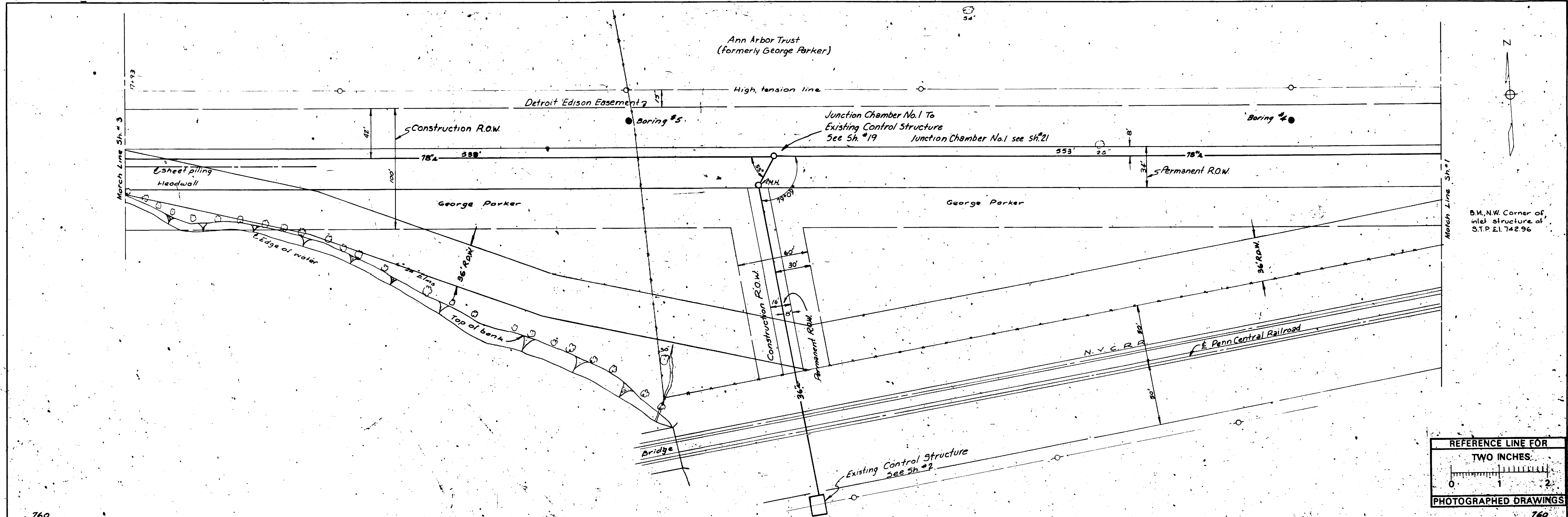
Digital Status
Scanned On 7-5-05
By: DCK

Prepared by McNamee, Porter and Sealey
Consulting Engineers

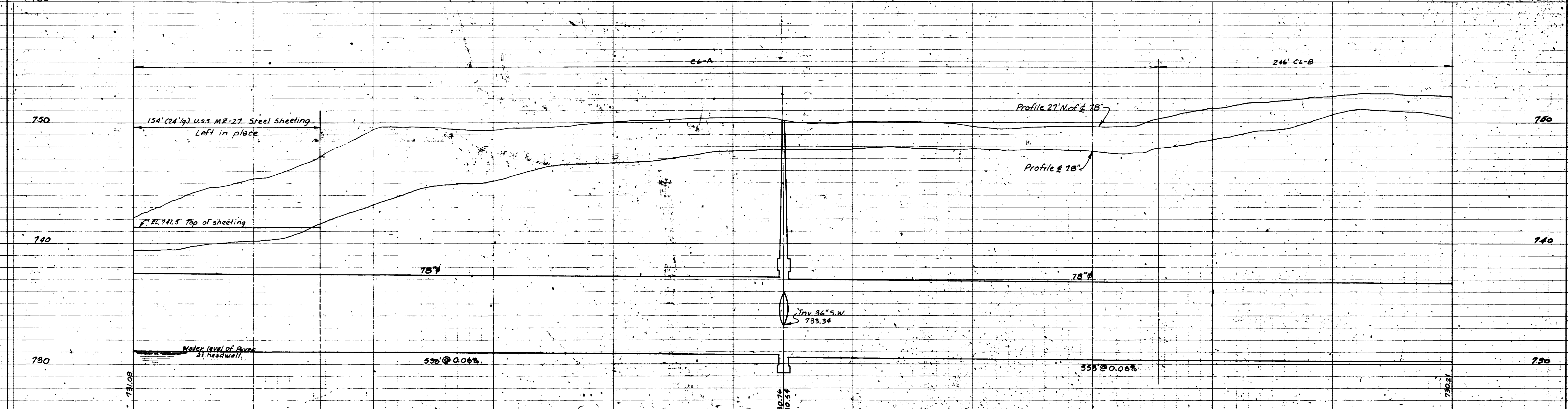
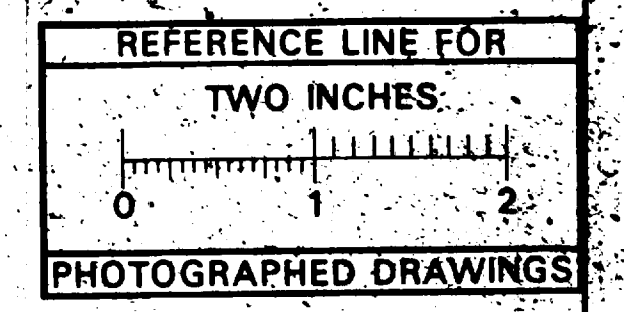
OCT., 1970	DATE	SHEET NO. 11
DR BY TWD	INDEX NO. 7723	SHELF NO.
TR BY A.H.		
CH BY F.R.		
REVISIONS		
BY		
DATE		
6-C-5117		
SCALE: HORIZONTAL 1"=40'		
VERTICAL 1"=4'		

SANITARY SEWERS
NORTH SIDE INTERCEPTOR

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN



B.M. N.W. Corner of
inlet structure of
S.T.P. E.I. 742.96

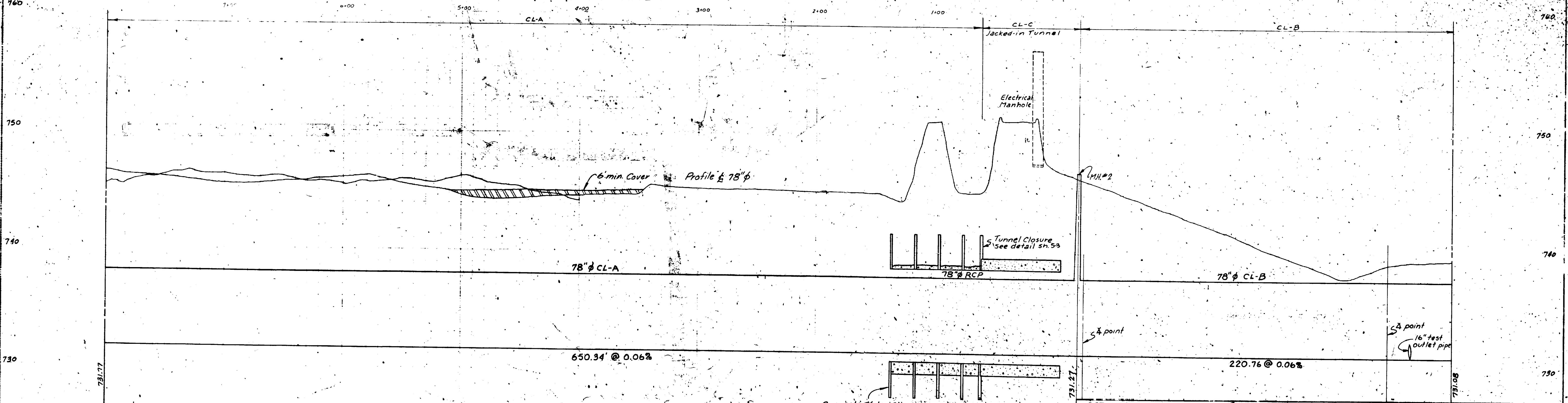
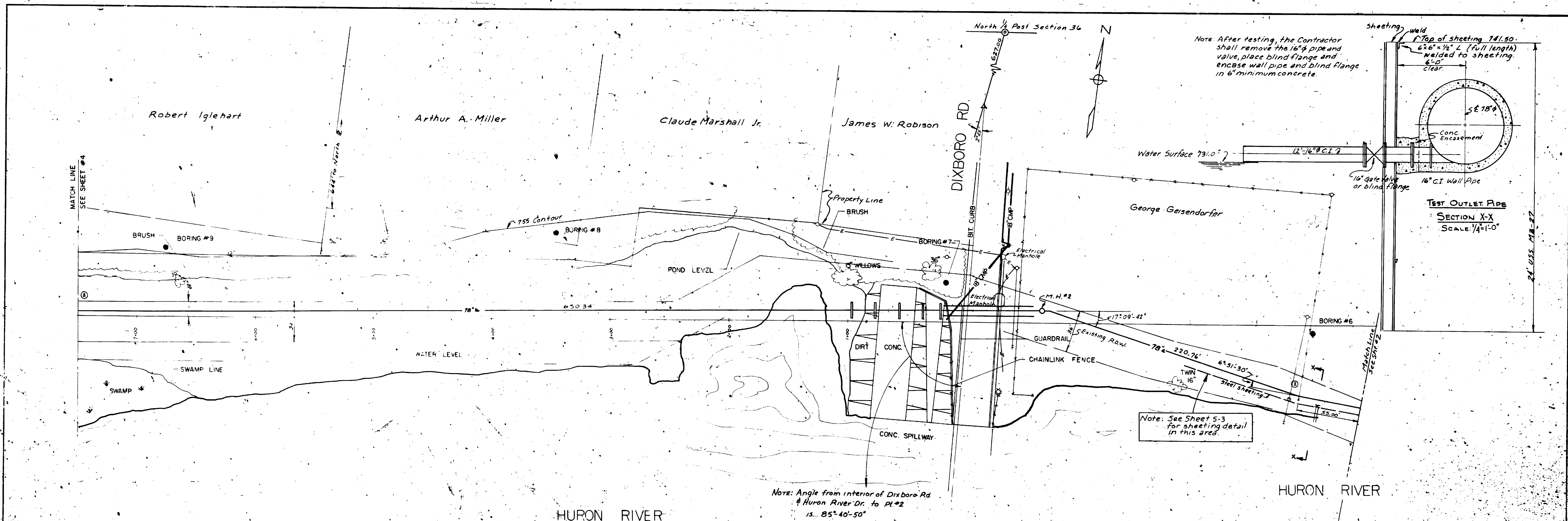


Digital Status
Scanned On: 7-5-03
By: PSL

PREPARED BY McNAMEE, PORTER AND SEELEY
CONSULTING ENGINEERS

CHARLES BRUNING COMPANY
A STATE PLATE A
ANN ARBOR

DATE	OCT, 1910	SHEET NO.	2	SANITARY SEWER	
DR. BY	T.W.D.	INDEX NO.	7724	NORTHSIDE INTERCEPTOR	
TR. BY	A.H.	SHELF NO.			
CH. BY	F.H.	6-C-5118		FREDRICK A. MAMMEL-SUPERINTENDENT OF PUBLIC WORKS	
REVISIONS		SCALE: HORIZONTAL 1"=40' VERTICAL 1"=4'		PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN	
CONFORMING TO CONSTRUCTION RECORDS					

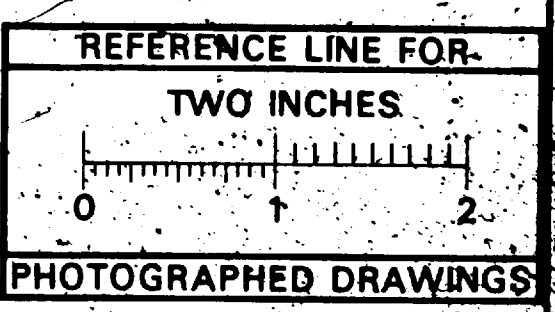
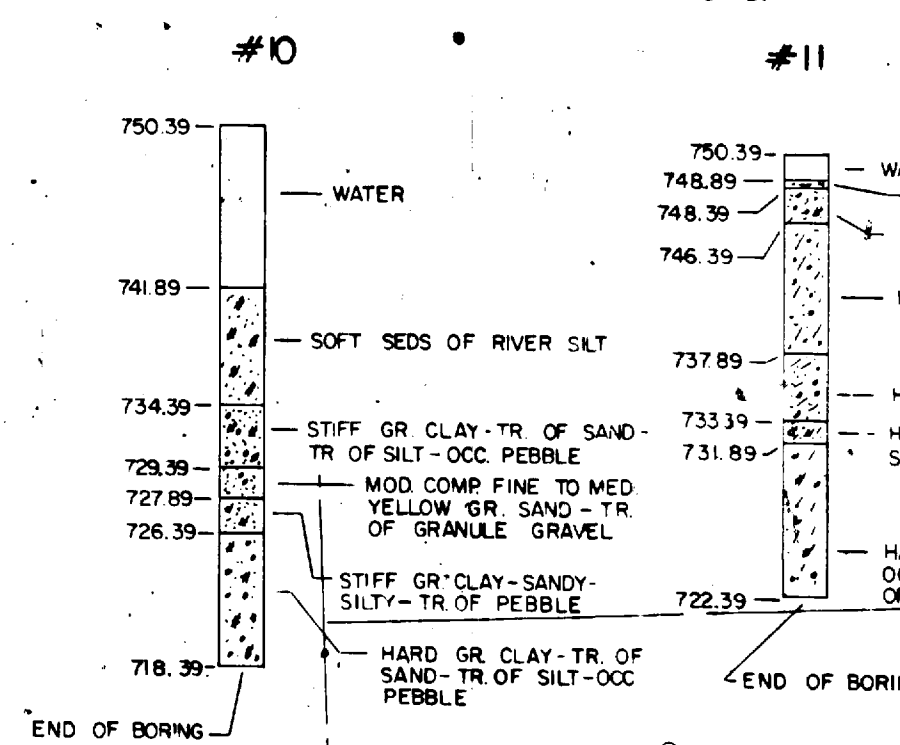
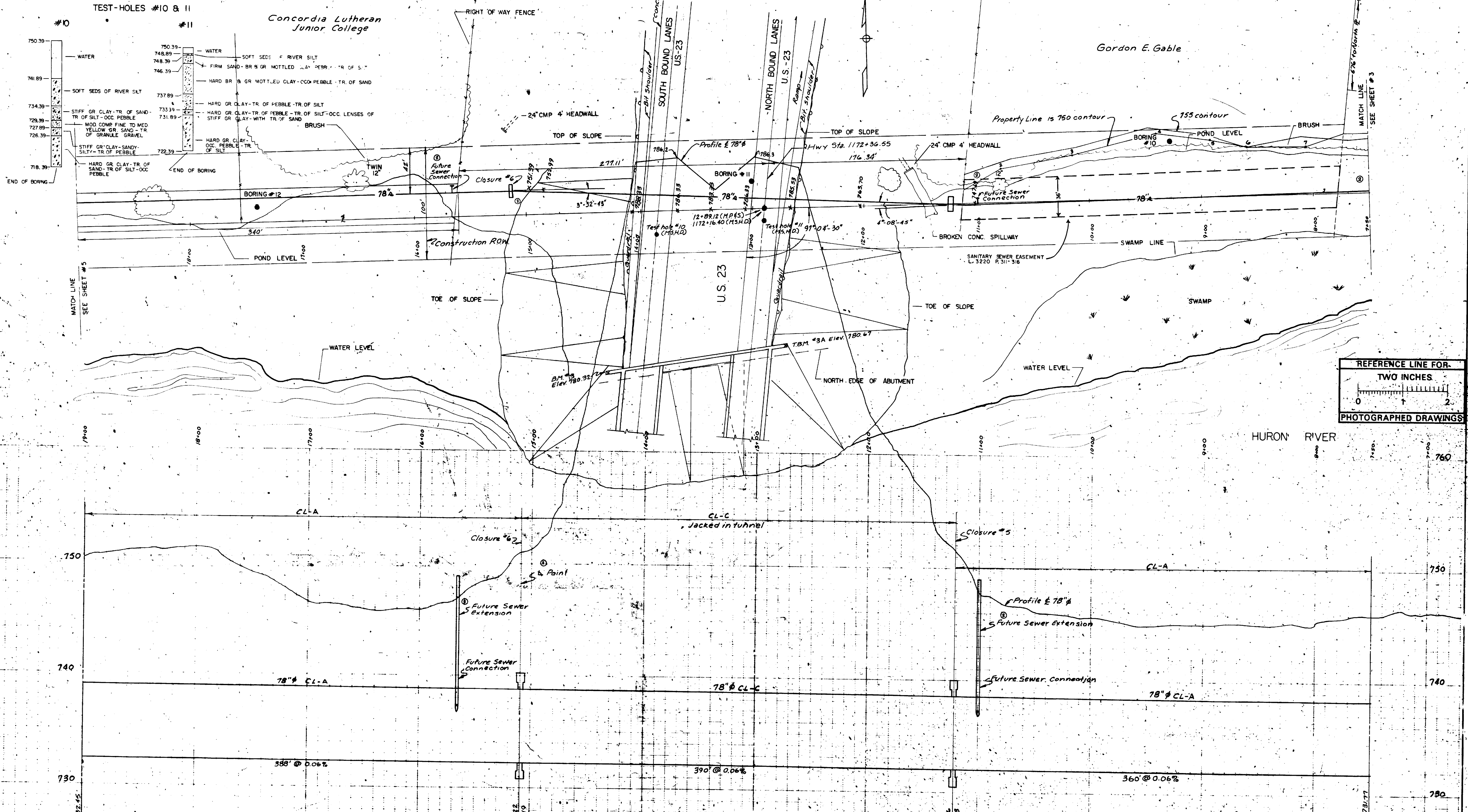


Digital Status Scanned On: 7-5-03 By: D.G.K.	OCT 1970 A.N.B. J.R.C. P.C.Y.		SHEET NO. 3 7725	SANITARY SEWER
	No. 1 Relocate Sewer add future sewer connection 2/8/71 R.A.B.		6-C-5119	NORTHSIDE INTERCEPTOR
REFERENCE LINE FOR TWO INCHES PHOTOGRAPHED DRAWINGS		SCALE: HORIZONTAL 1"=40' VERTICAL 1"=4'		PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN CONFORMING TO CONSTRUCTION RECORDS
PROFILES CENTER LINE LEFT PROPERTY LINE RIGHT PROPERTY LINE	DRAWINGS FIELD BOOKS	JOB JOB	DIST DIST	APPROVED BY

NOTE: TEST HOLE INFORMATION OBTAINED FROM M.D.S.H. PLANS FOR RELOC. U.S. 23 OVER THE NEW YORK CENTRAL R.R. AND HURON RIVER. XI OF 81-1-17

Concordia Lutheran Junior College

Gordon E. Gable

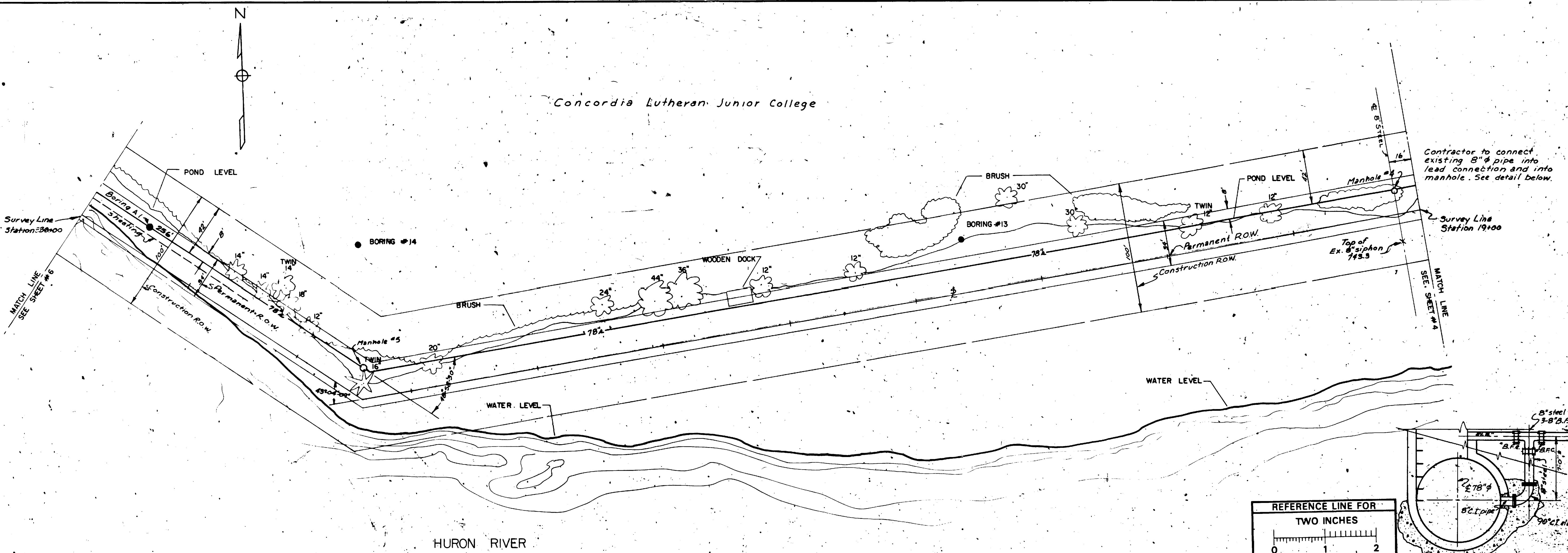


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By: D.G.L.

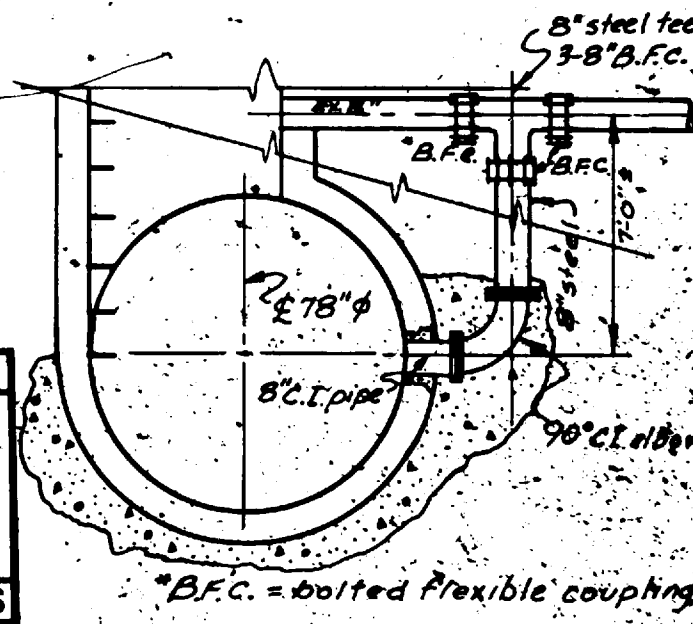
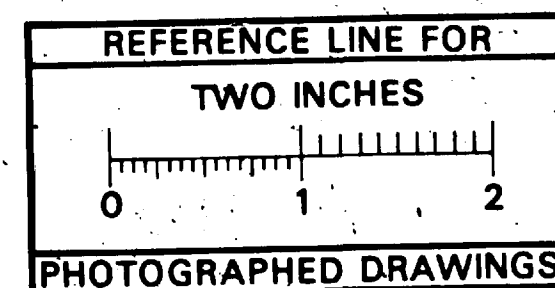
OCT. 1970 DESIGNED BY A.N.B. DRAWN BY J.R.C. CHECKED BY P.C.Y. REVISIONS: (1) (C) Separate Sewer Remains M.H. #3 add two Future Sewer Conn. 2/8/71 K.R.D.	SHEET NO. 4 INDEX NO. 7726 SHELF NO.	SANITARY SEWER 6-C-5120 NORTHSIDE INTERCEPTOR FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN CONFORMING TO CONSTRUCTION RECORDS		

PROFILES: CENTER LINE, LEFT PROPERTY LINE, RIGHT PROPERTY LINE
 DRAWINGS: FIELD BOOK
 JOB: DIST. APPROVED BY

Concordia Lutheran Junior College

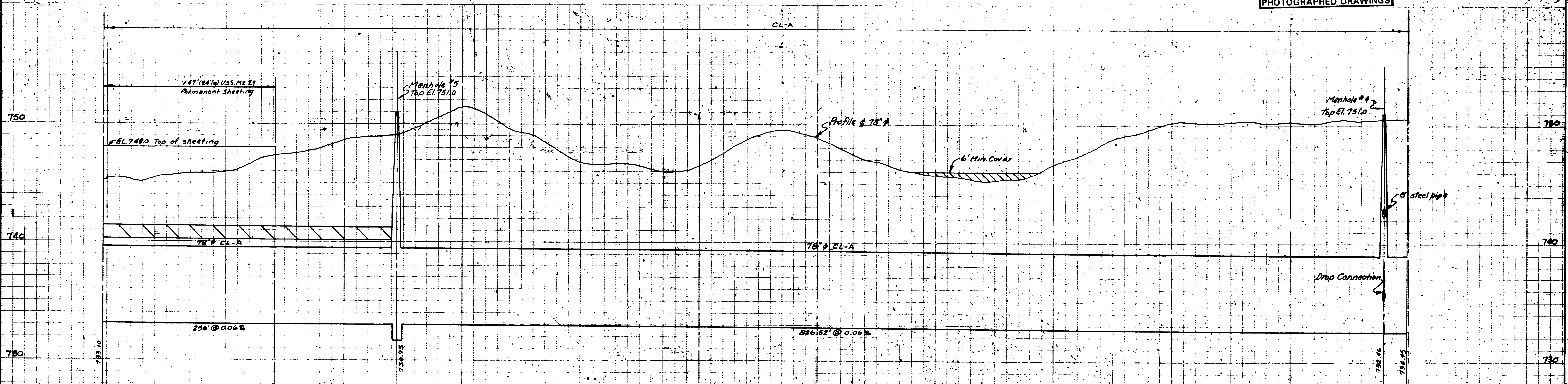


Contractor to connect existing 8" pipe into lead connection and into manhole. See detail below.



*B.F.C. = bolted flexible coupling.

HURON RIVER



Digital Status
Scanned On: 7-5-08
By: DKK

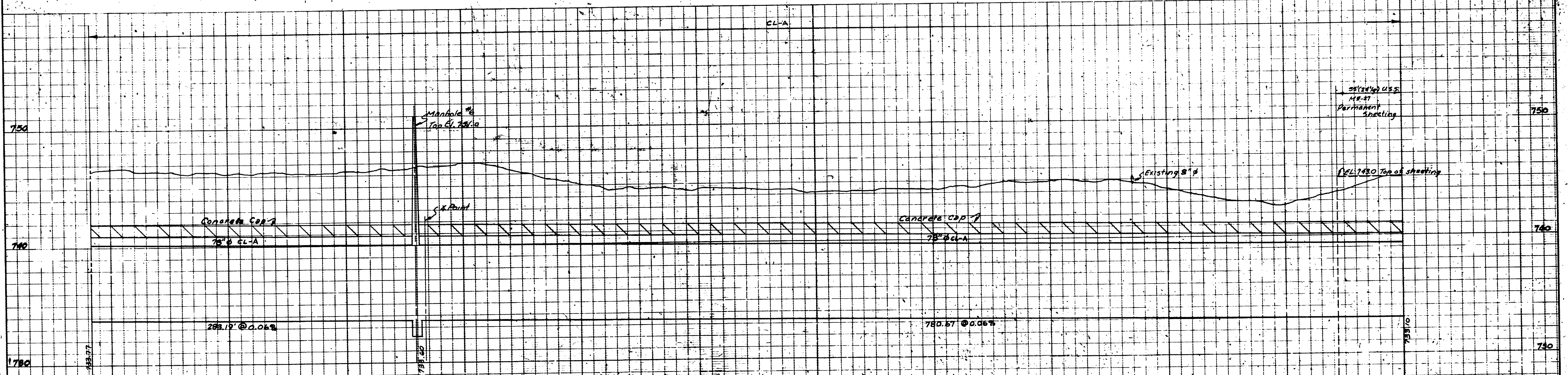
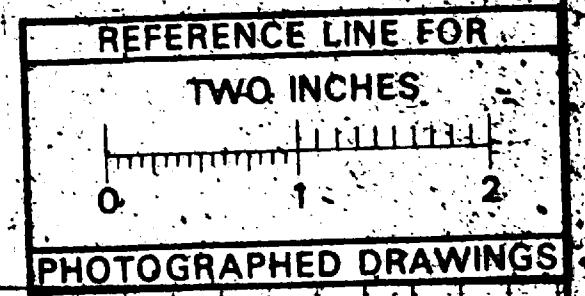
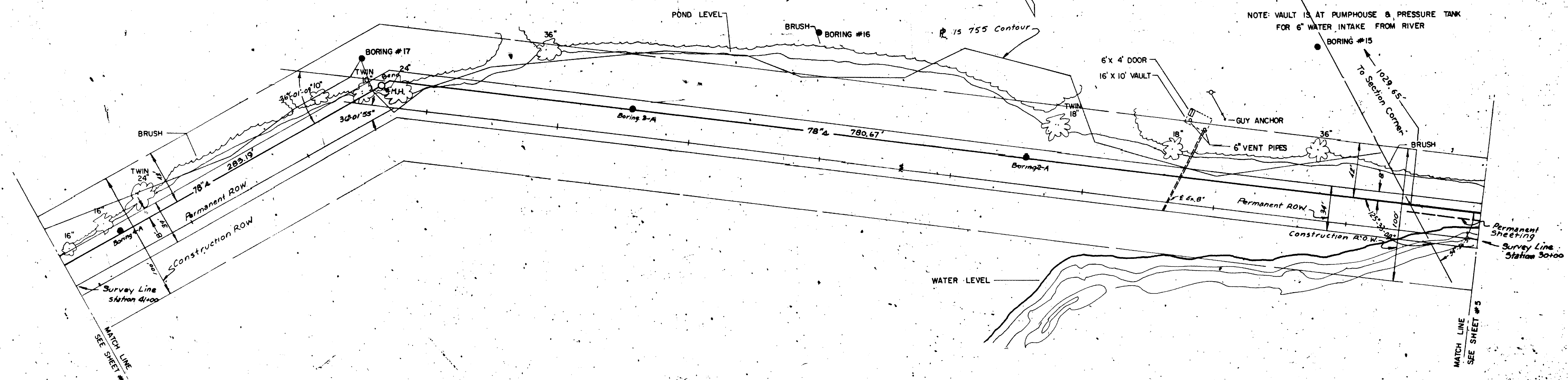
OCT. 1970	DATE	SHEET NO. 5	SANITARY SEWER	
DR BY A.N.B.	INDEX NO. 7727	SHELF NO.	NORTHSIDE INTERCEPTOR	
TR BY J.R.C.	REVISIONS		FREBRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS	
CH BY P.C.Y.	6-C-5121		PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN	
SCALE: HORIZONTAL = 40'		CONFORMING TO CONSTRUCTION RECORDS		
VERTICAL = 4'		APPROVED BY		

PROFILES CENTER LINE RIGHT PROPERTY LINE DRAWINGS FIELD BOOKS JOB DIST. APPROVED BY

----- LEFT PROPERTY LINE -----

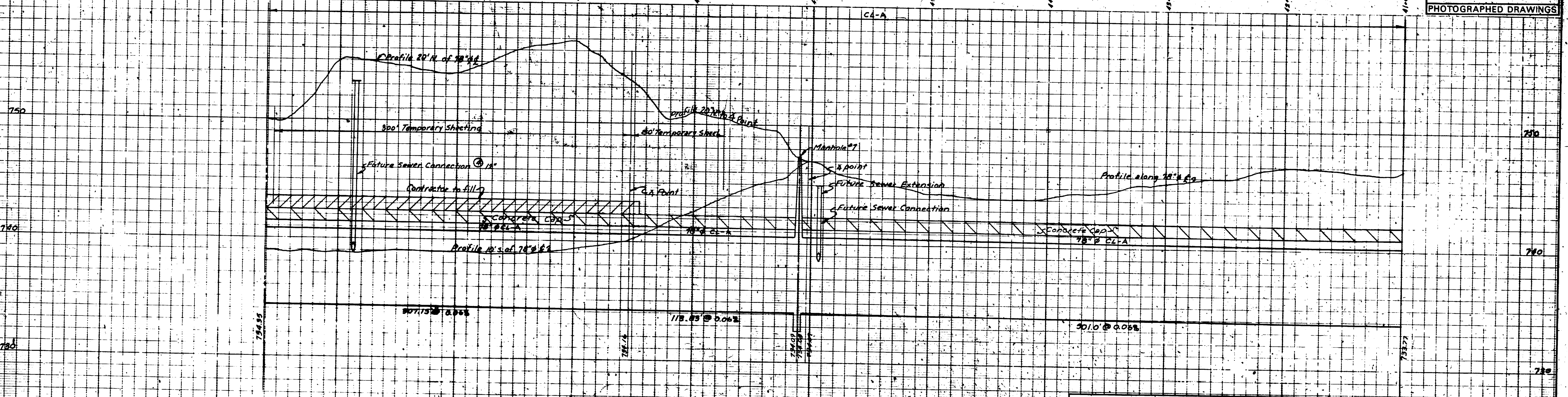
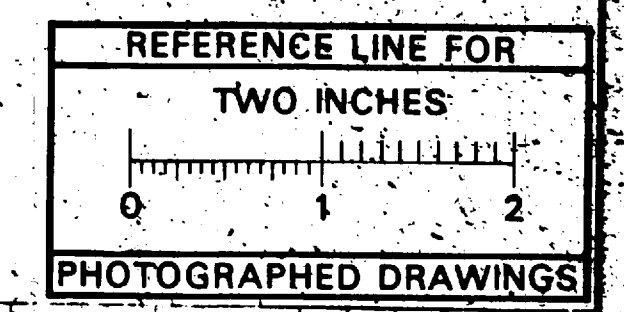
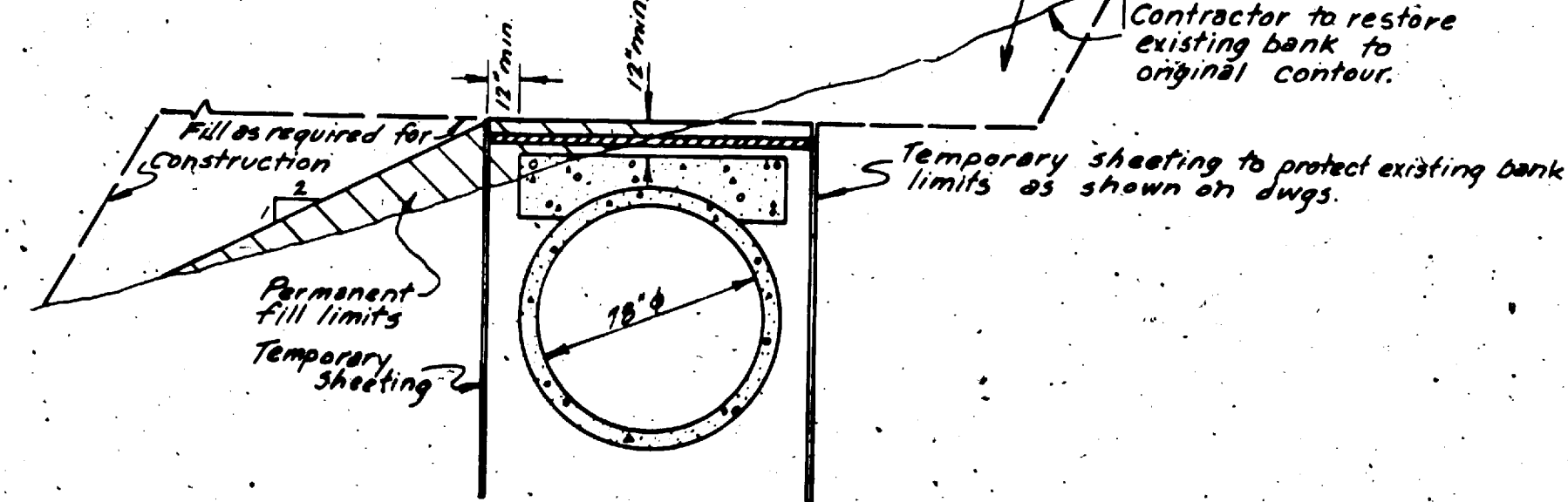
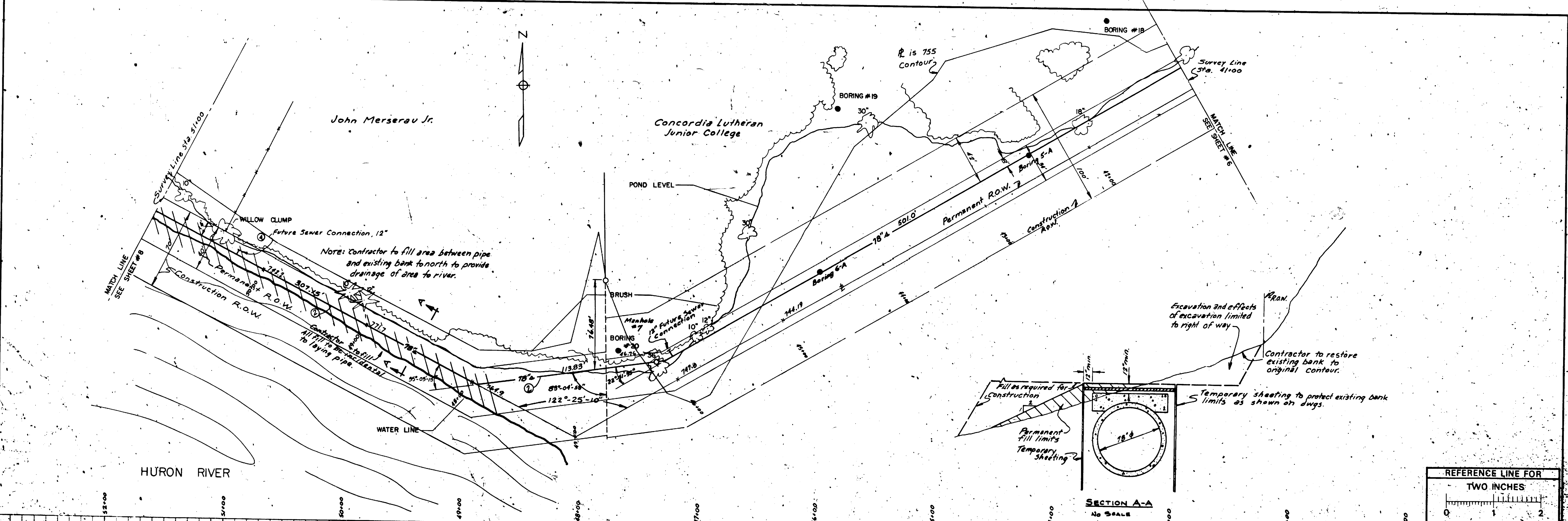
Concordia Lutheran Junior College

NOTE: VAULT IS AT PUMPHOUSE & PRESSURE TANK FOR 6" WATER INTAKE FROM RIVER



Digital Status Scanned On 7-5-05 By: DGM

OCT 1970 DR BY A.N.B. TR BY J.R.C. CH BY P.C.Y. REVISIONS	DATE INDEX NO. 7728 SHEET NO. 6	SANITARY SEWER
6-C-5122		NORTHSIDE INTERCEPTOR
SCALE: HORIZONTAL 1"=40' VERTICAL 1"=4'		FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN		



Digital Station
Scanned On: 7-1-05
By: JLG

OCT 1970 DATE SHEET NO. 7
 DR. BY A.N.B. INDEX NO. 7729
 TR. BY J.R.C. SHELF NO.
 CH. BY P.C.Y.
 REVISIONS:
 (1) Relocated & Added Nov. 70
 (2) Add Future Sewer Connection 9/29/71

6-C-5123

SCALE: HORIZONTAL 1" = 40'
 VERTICAL 1" = 4'

SANITARY SEWER
NORTSIDE INTERCEPTOR
 FROM STA. 41+00 TO STA. 51+00
 FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS
 PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN
 CONFORMING TO CONSTRUCTION RECORDS

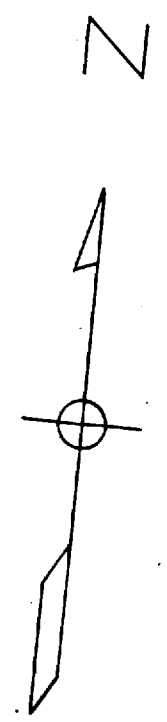
PROFILES
 ——— CENTER LINE
 - - - - - LEFT PROPERTY LINE
 - - - - - RIGHT PROPERTY LINE

DRAWINGS
 FIELD BOOK

JOB _____
 JOB _____

DIST. _____
 DIST. _____

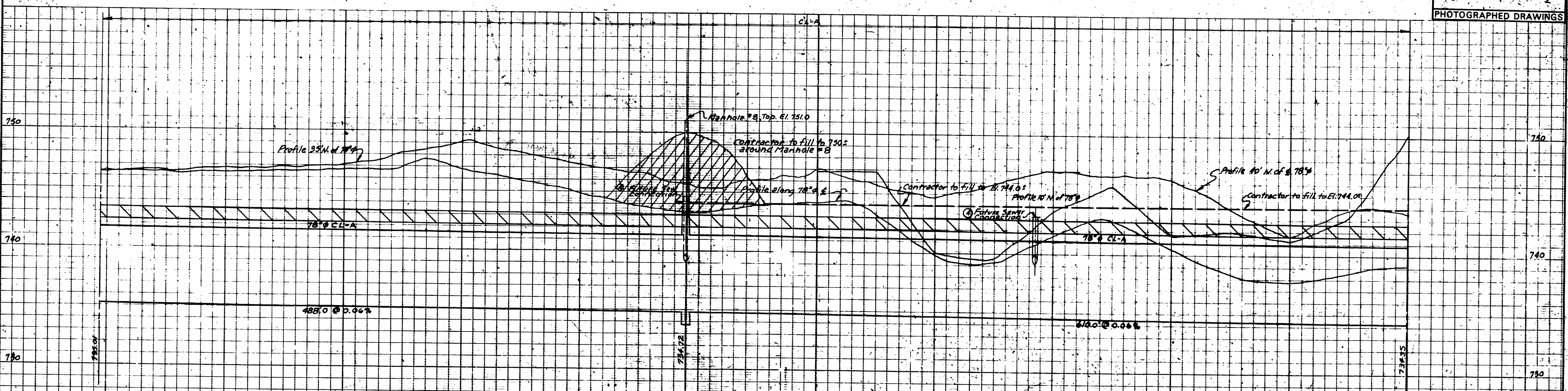
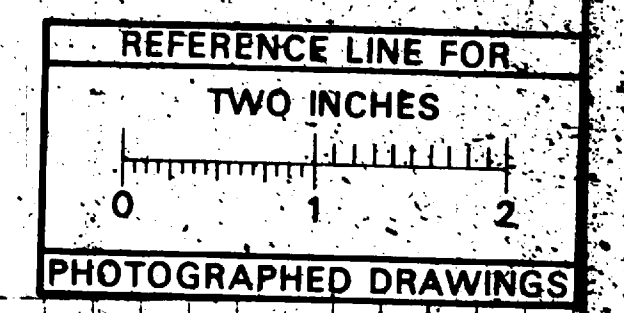
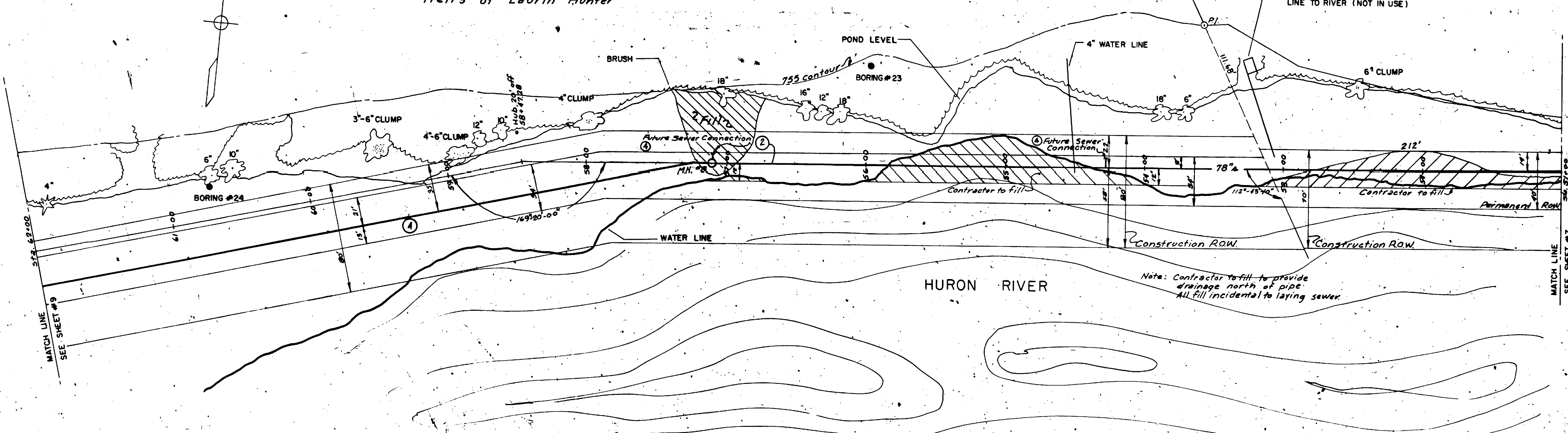
APPROVED BY _____



Heirs of Laurin Hunter

John Merserau Jr.

11'x7' PUMPHOUSE WITH 4" WATER LINE TO RIVER (NOT IN USE)



District Status
 Scaled On: 7-5-05
 By: D.B.K.

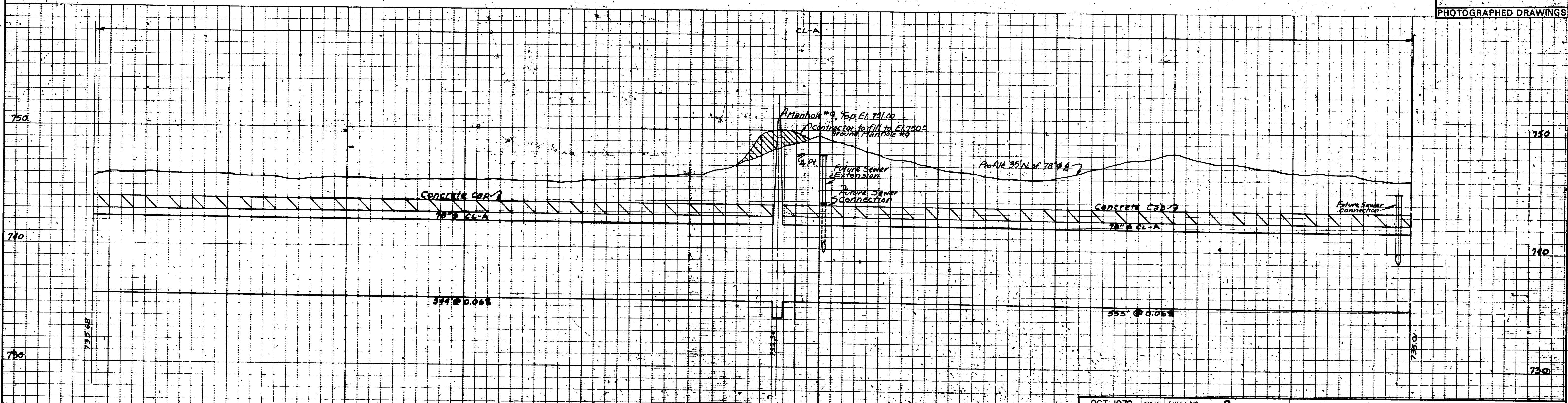
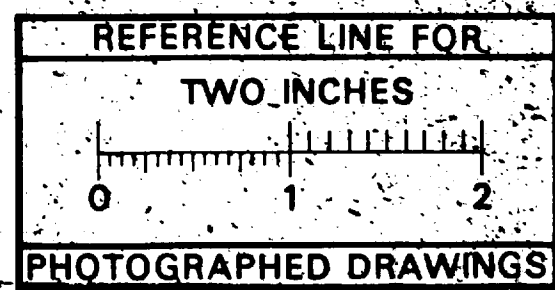
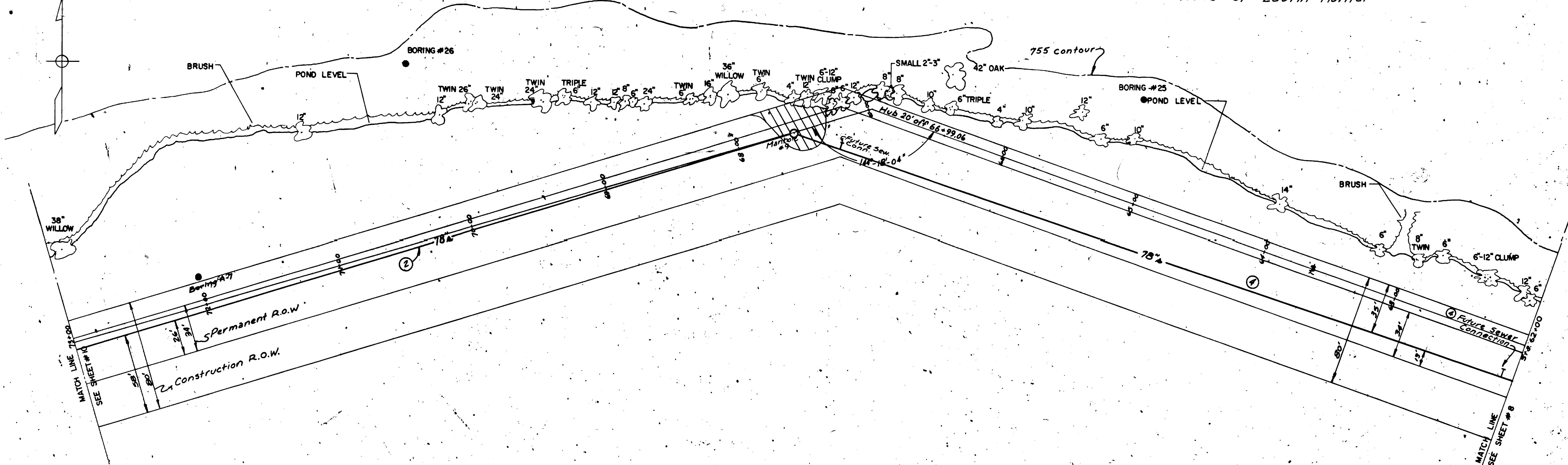
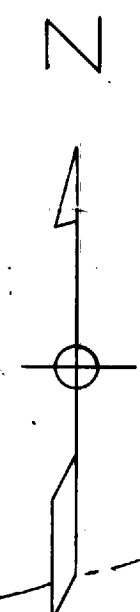
OCT 1970	DATE	SHEET NO. 3	SANITARY SEWER
DR BY: A.N.B.	INDEX NO. 7730		
TR BY: J.R.C.	SHELF NO.		
CH BY: P.C.Y.			
REVISIONS			
① Relocated & Awd. #2 Nov. 70.			
② Relocated & Awd. #11 Nov. 70.			
③ Future Sewer Conn.			

6-C-5124 **NORTHSIDE INTERCEPTOR**
 FROM: 51+00 TO 62+00
 FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS
 PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN
 CONFORMING TO CONSTRUCTION RECORDS

PROFILES CENTER LINE LEFT PROPERTY LINE RIGHT PROPERTY LINE
 DRAWINGS FIELD BOOK JOB DIST APPROVED BY

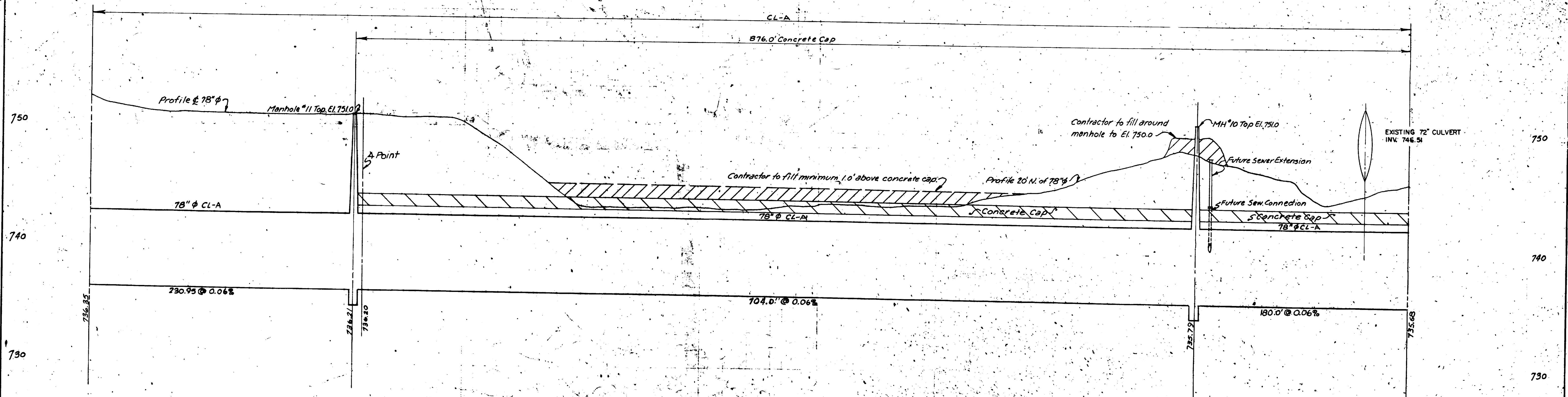
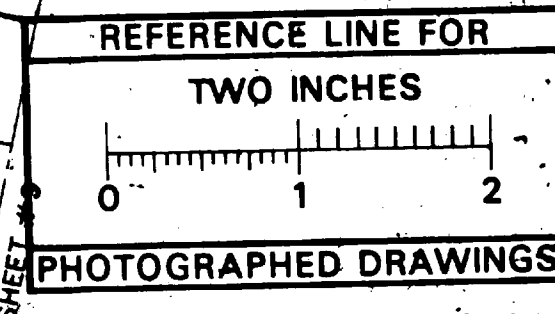
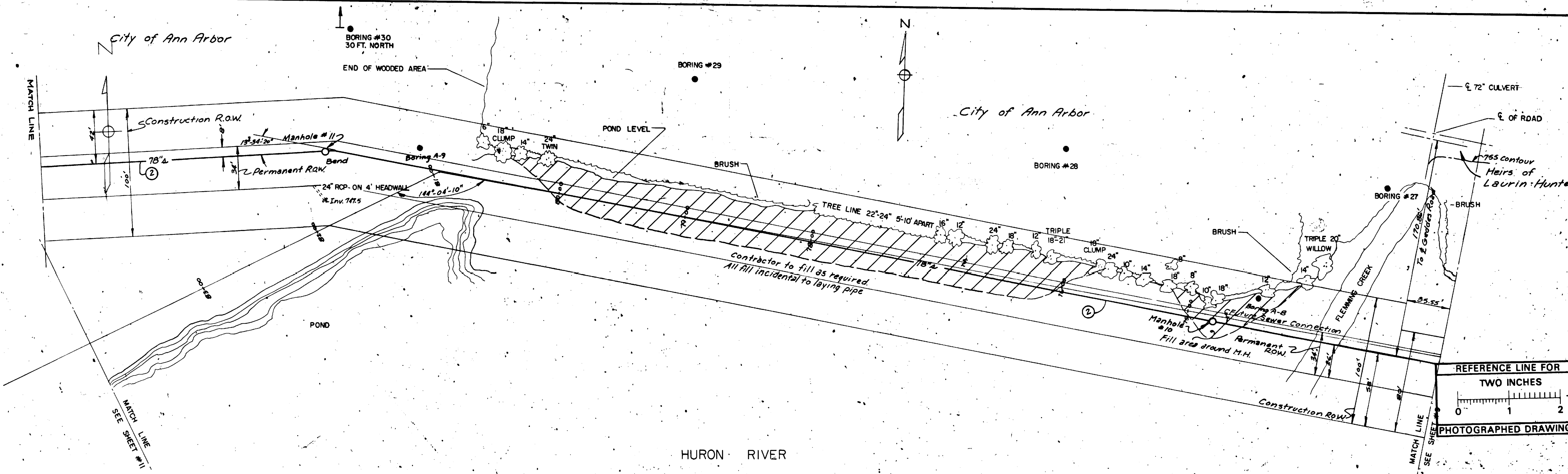
Heirs of Laurin Hunter

Heirs of Laurin Hunter



Digital Status
Scanned On: 7-9-05
By: DAK

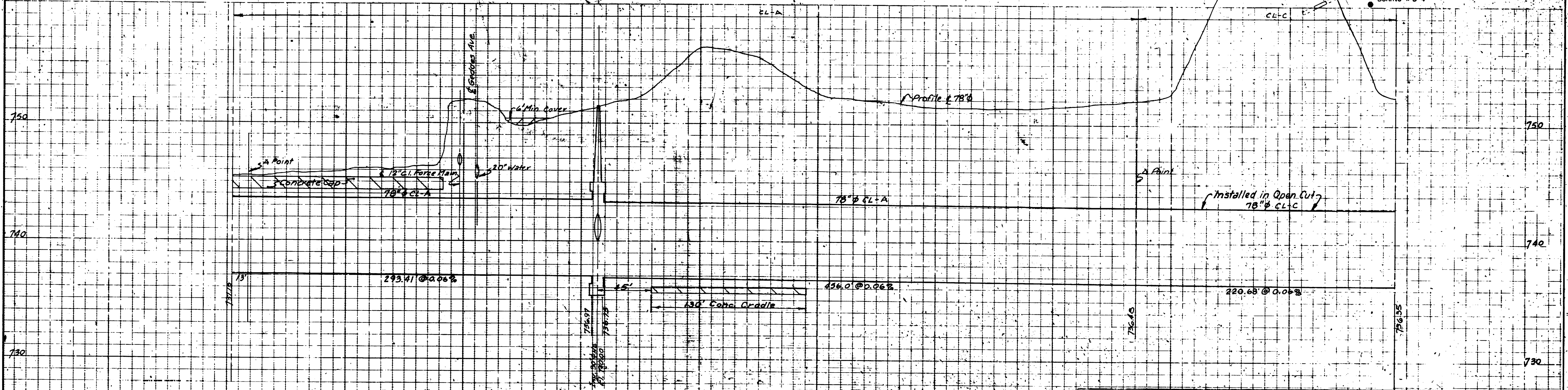
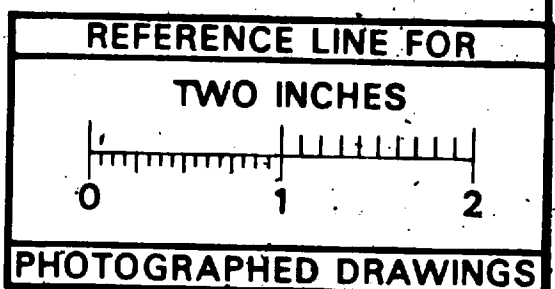
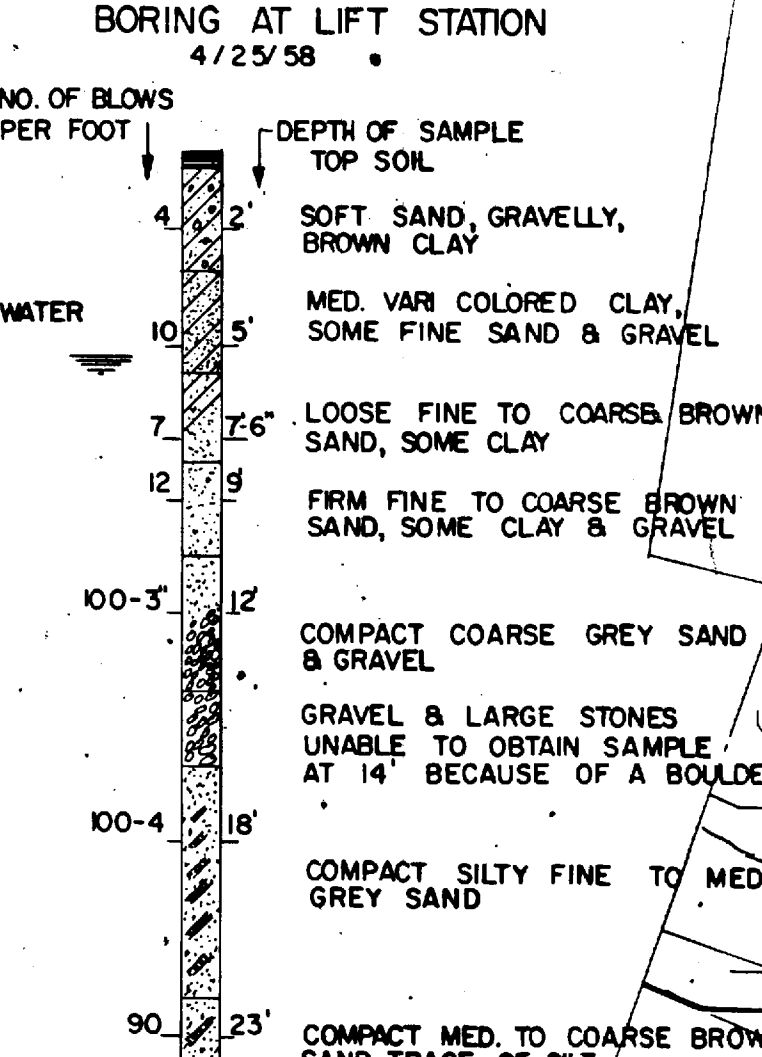
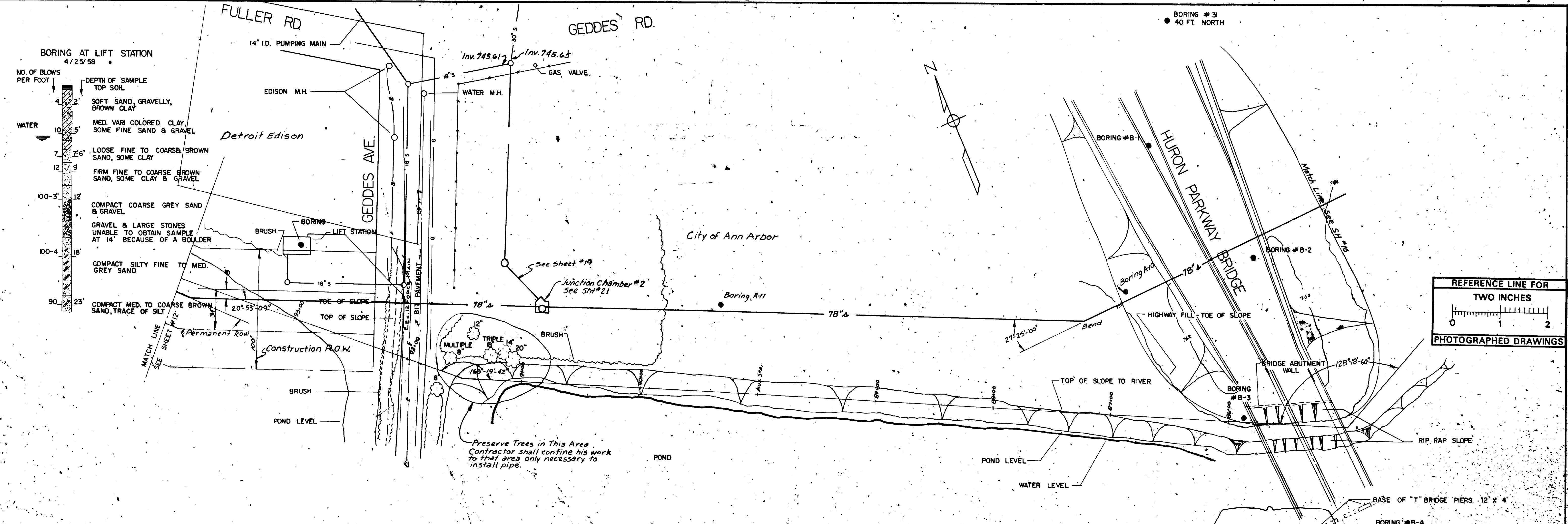
OCT. 1970	DATE	SHEET NO. 9	SANITARY SEWER
DR BY AN.B.	INDEX NO. 7731		
TR BY J.R.C.	SHELF NO.		
CH BY P.C.Y.			
REVISIONS		6-C-5125	NORTHSIDE INTERCEPTOR
① Relocated & 70' Add. 2' Nav.			
② Relocated & Add. Future Sew. Conn. 9/30/71			
SCALE: HORIZONTAL 1" = 40'		FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS	
VERTICAL 1" = 4'		PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN	
CONFORMING TO CONSTRUCTION RECORDS			



Digital Status
Scanned On: 7-5-05
By: D&K

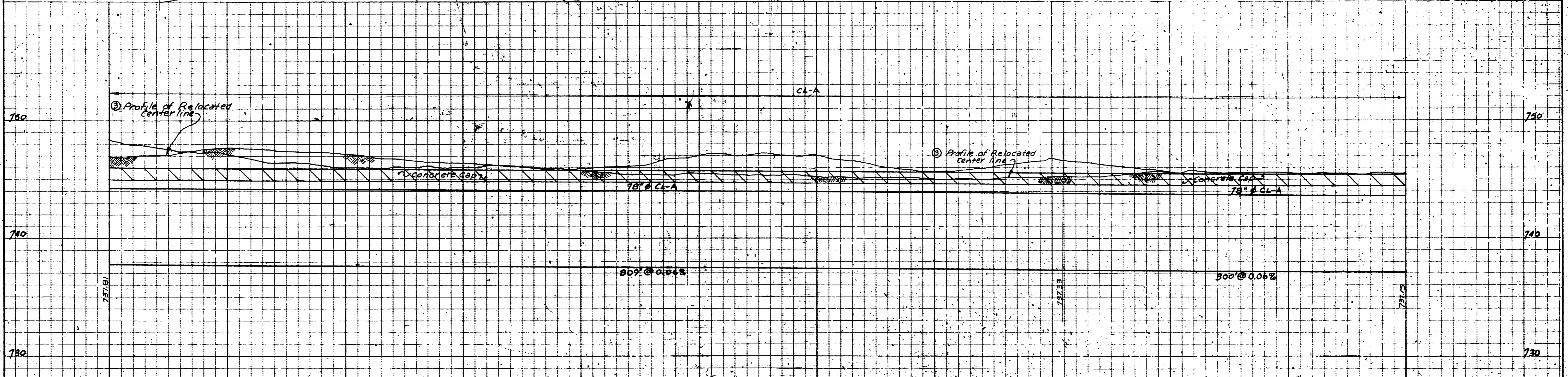
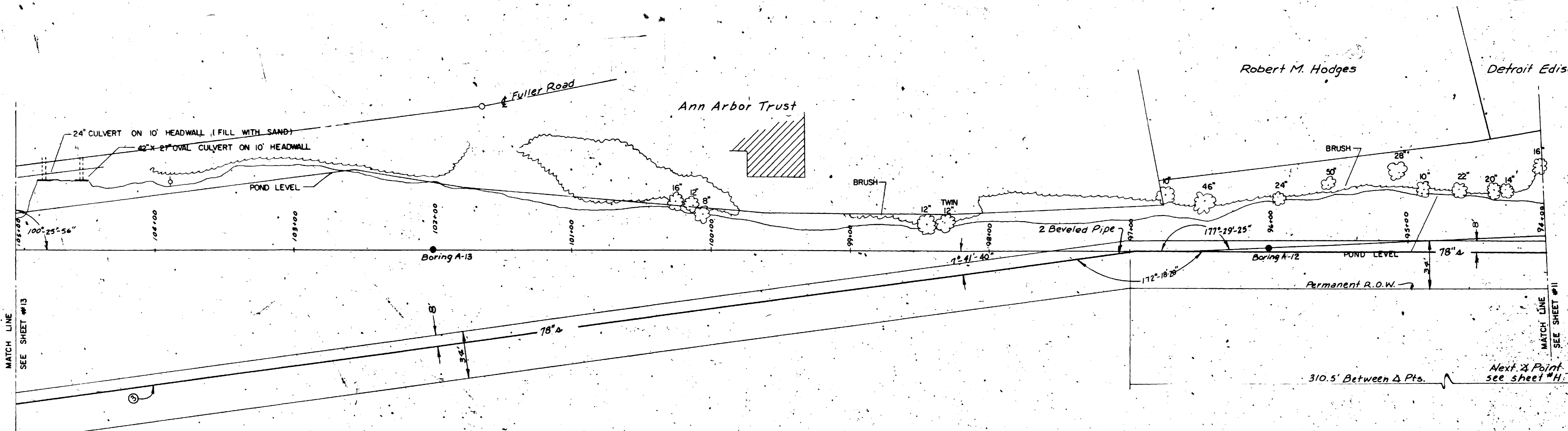
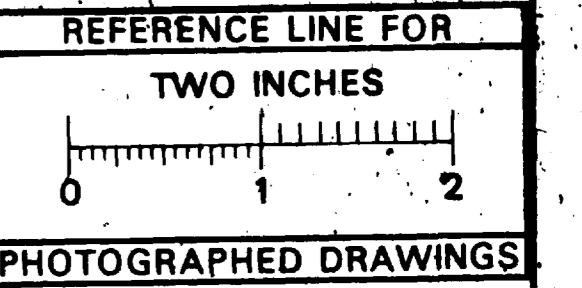
OCT 1970	DATE	SHEET NO. 10	INDEX NO. 7732	SANITARY SEWER
DR BY A.N.B.	TR BY J.R.C.	CH BY P.C.Y.	REVISIONS ① Relocated & Add. #2 Nov. '70	6-C-5126
SCALE: HORIZONTAL 1"=40'			FREDRICK A. MAMUEL SUPERINTENDENT OF PUBLIC WORKS	
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN			NORTHSIDE INTERCEPTOR	

CONFORMING TO CONSTRUCTION RECORDS
 JOB _____ DIST _____
 JOB _____ DIST _____
 APPROVED BY _____



OCT. 1970 DATE	SHEET NO. 11	SANITARY SEWER
DR. BY A.N.B.	NO. 7733	NORTHSIDE INTERCEPTOR
CH. BY J.R.C.		FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS
REV. BY P.C.Y.		6-C-5127
SCALE: HORIZONTAL 1" = 40'		PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN
VERTICAL 1" = 4'		CONFORMING TO CONSTRUCTION RECORDS

NOTE: BORINGS B-1 THRU B-4 TEST BORING REPORT MADE BY RAYMOND CONCRETE PILE DIVISION, RAYMOND INTERNATIONAL INC., DEC. 29, 1966



Digital Stamp
Scanned On: 7-5-05
By: D.K.C.

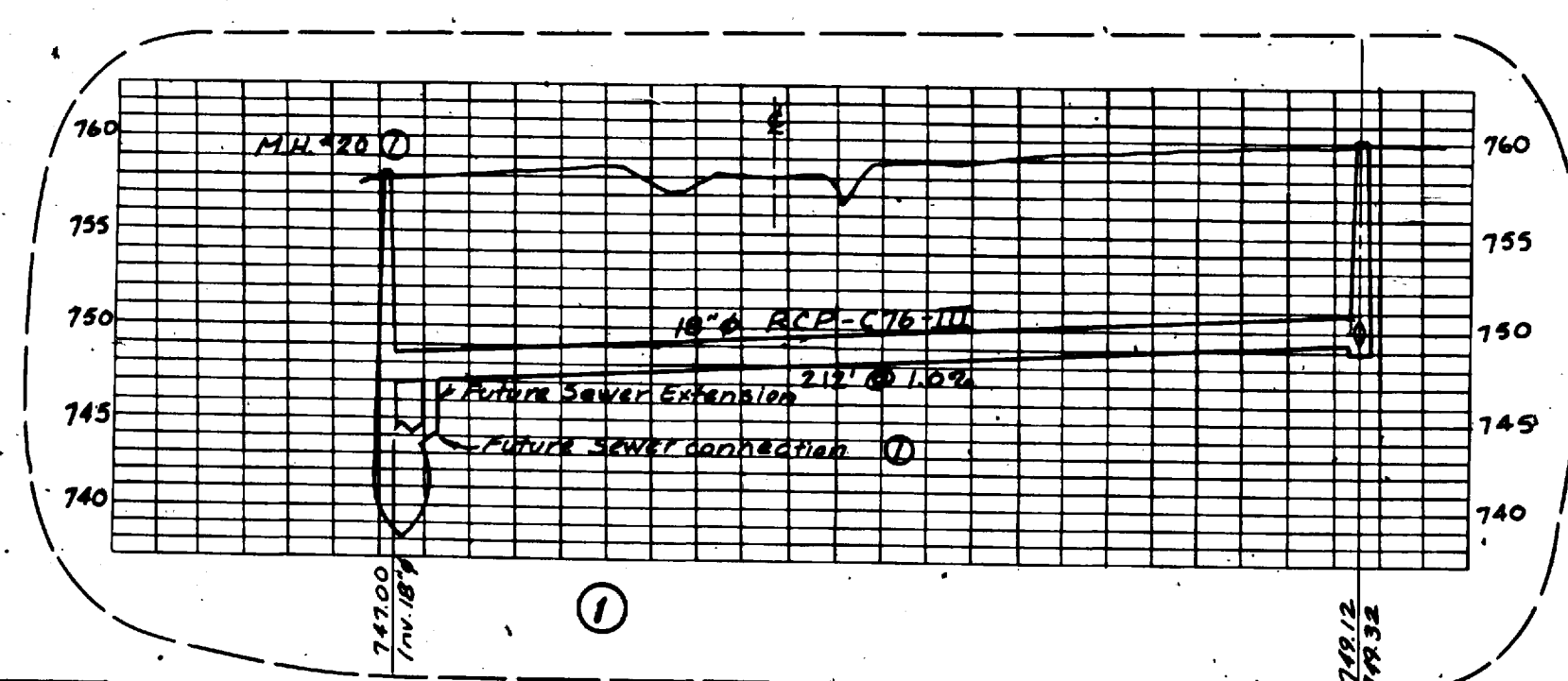
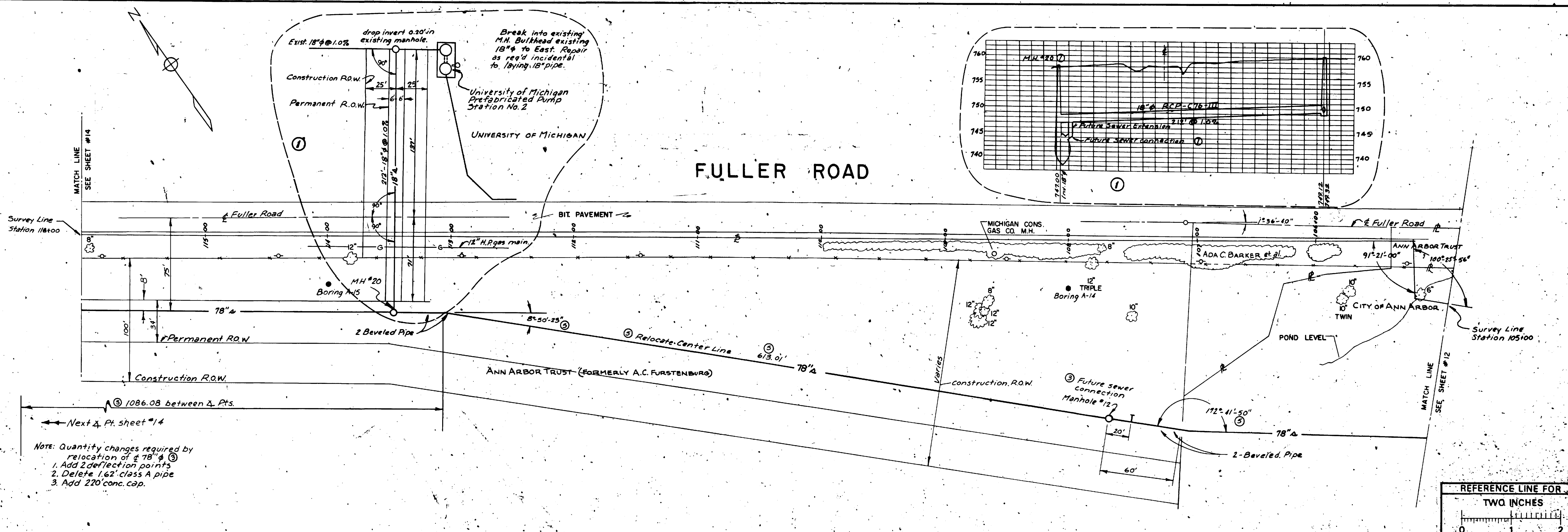
DATE: OCT 1970	SHEET NO.: 12	SANITARY SEWER	
DR BY: A.N.B.	INDEX NO.: 7734	6-C-5128 NORTHSIDE INTERCEPTOR	
TR BY: J.R.C.	SHELF NO.:		
CH BY: P.C.Y.	REVISIONS: ① Relocate center line 8-23-71		
SCALE: HORIZONTAL 1"=40'		FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS	
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN			
CONFORMING TO CONSTRUCTION RECORDS			

PROFILES CENTER LINE RIGHT PROPERTY LINE
 LEFT PROPERTY LINE

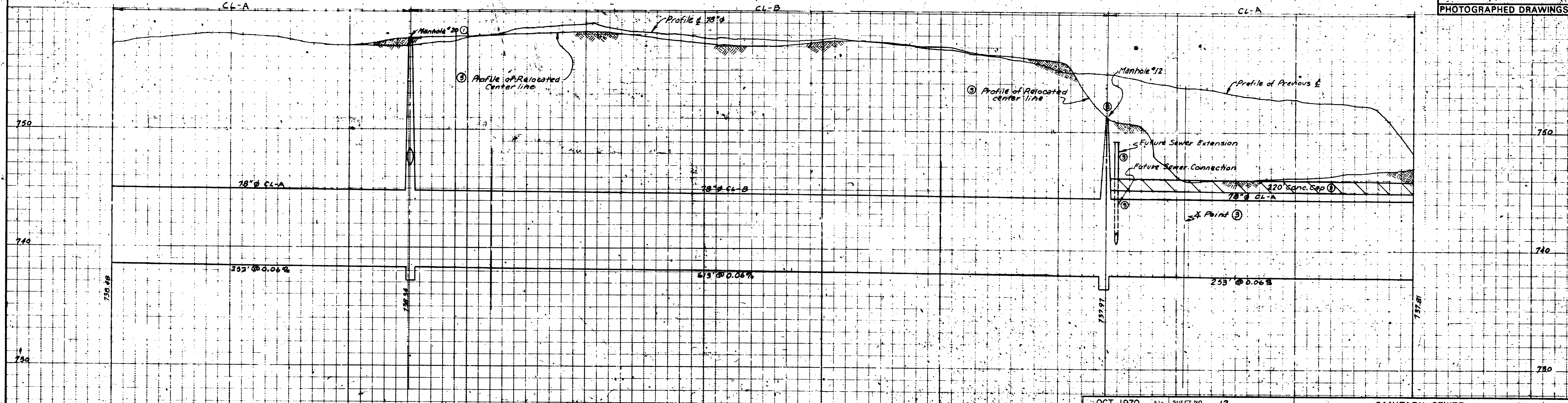
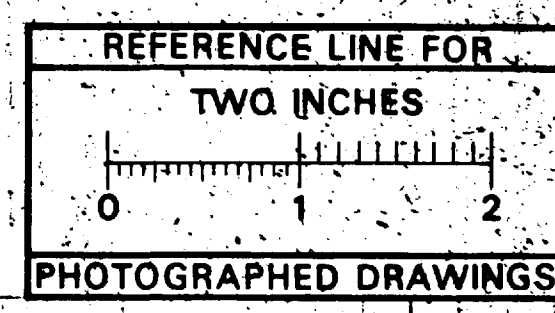
DRAWINGS FIELD BOOK

JOB DIST.
JOB DIST.

APPROVED BY



NOTE: Quantity changes required by relocation of 78" @ ③
 1. Add 2 deflection points
 2. Delete 1.62' class A pipe
 3. Add 220 conc. cap.

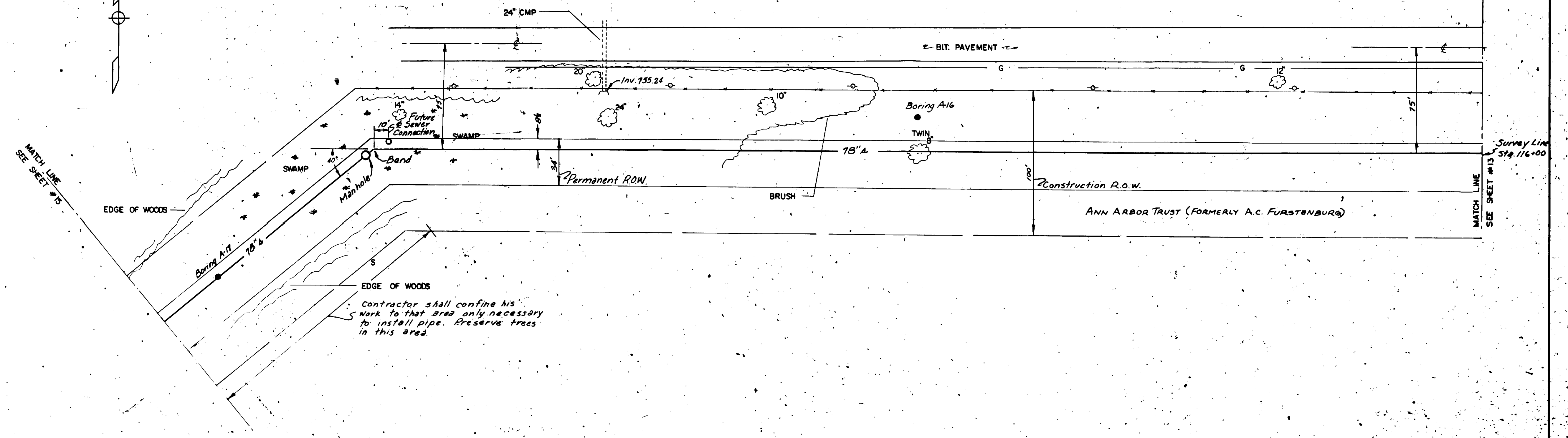


Digital Status
 Scanned On: 7-5-05
 By: JCK

DATE: OCT. 1970	SCALE: HORIZONTAL = 40' = 1" VERTICAL = 4' = 1"	SHEET NO: 1/3	INDEX NO: 7735	SHELF NO:
DR BY: A.N.B.	SANITARY SEWER			
TR BY: J.R.C.	6-C-5129 NORTHSIDE INTERCEPTOR			
CHECKED BY: P.C.Y.	FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS			
REVISIONS:	PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN			
① Add connection to 10" station by add 1/2"	CONFORMING TO CONSTRUCTION RECORDS			
② Relocate Center line 8-23-71	JOB _____ DIST. _____			
③ Relocate Center line 8-23-71	JOB _____ DIST. _____			
④ Relocate @ 10-6-71	APPROVED BY _____			



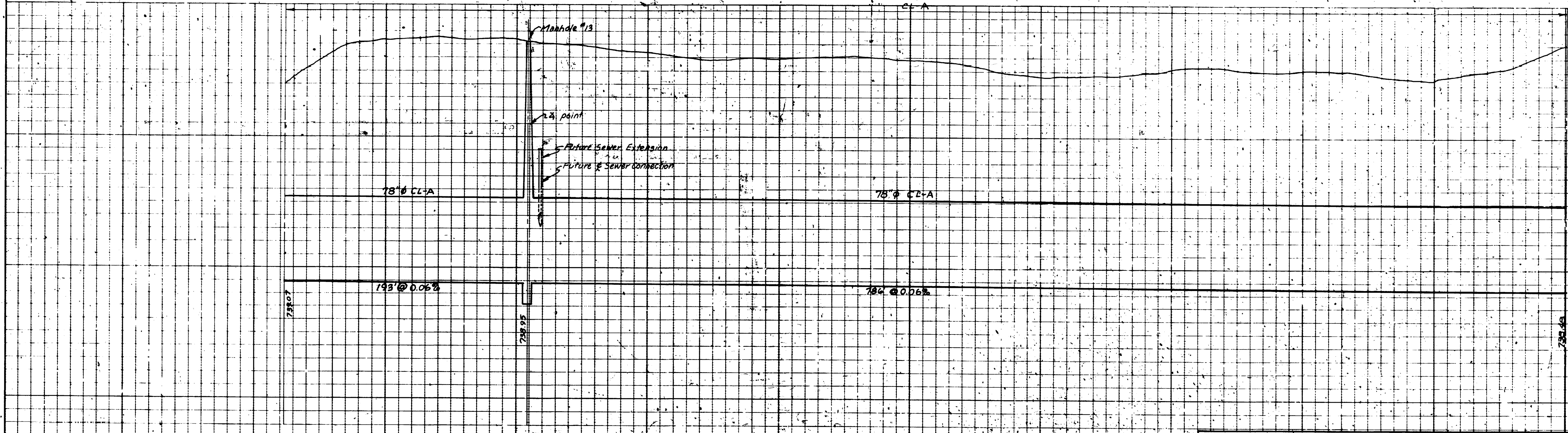
FULLER ROAD



Contractor shall confine his work to that area only necessary to install pipe. Preserve trees in this area.

REFERENCE LINE FOR TWO INCHES

PHOTOGRAPHED DRAWINGS



Digital Status
Scanned On: 7-5-10
By: NCV

OCT. 1970
DR BY A.N.B.
TR BY J.R.C.
CH BY P.C.Y.
REVISIONS

SHEET NO. 14
INDEX NO. 7736
SHELF NO.

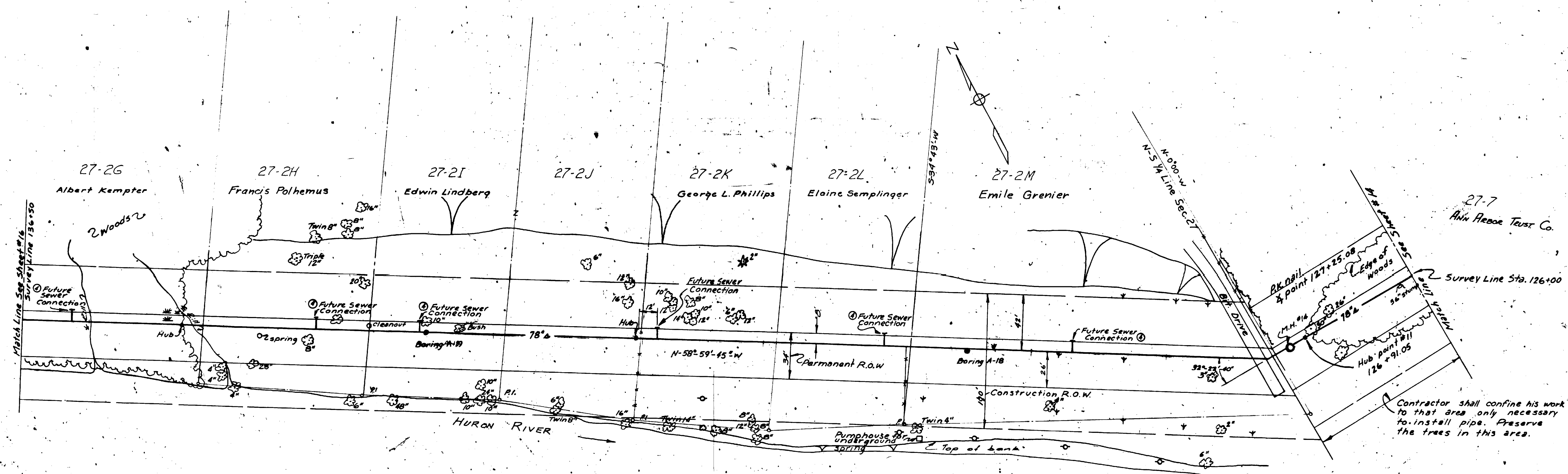
6-C-5130

SANITARY SEWER

NORTHSIDE INTERCEPTOR

FREDRICK A. MAMMEL
SUPERINTENDENT OF PUBLIC WORKS

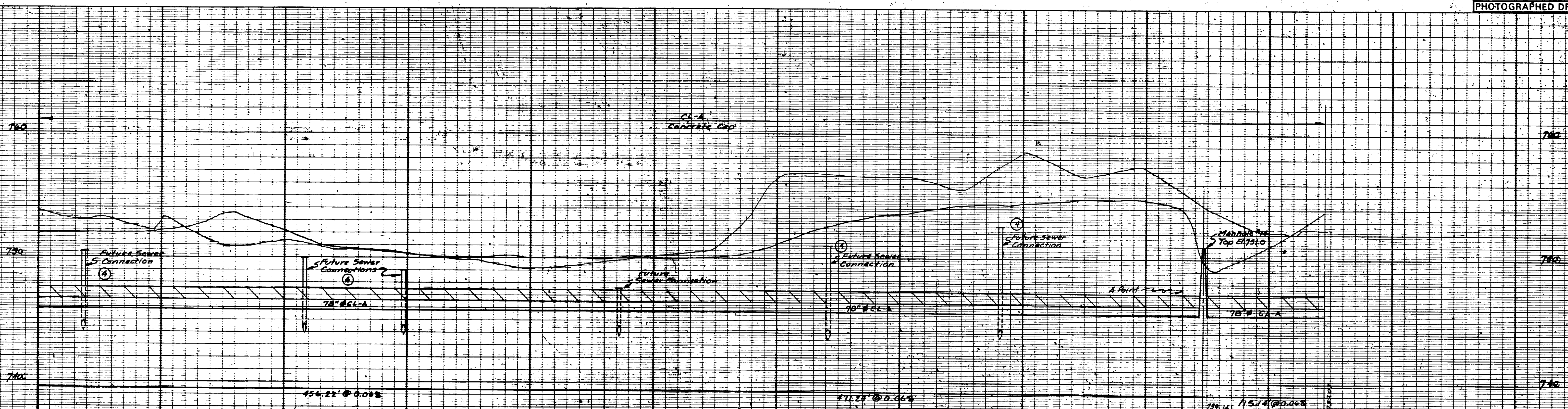
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN
CONFORMING TO CONSTRUCTION RECORDS



LEGEND
Sprinkler

REFERENCE LINE FOR
TWO INCHES

PHOTOGRAPHED DRAWINGS



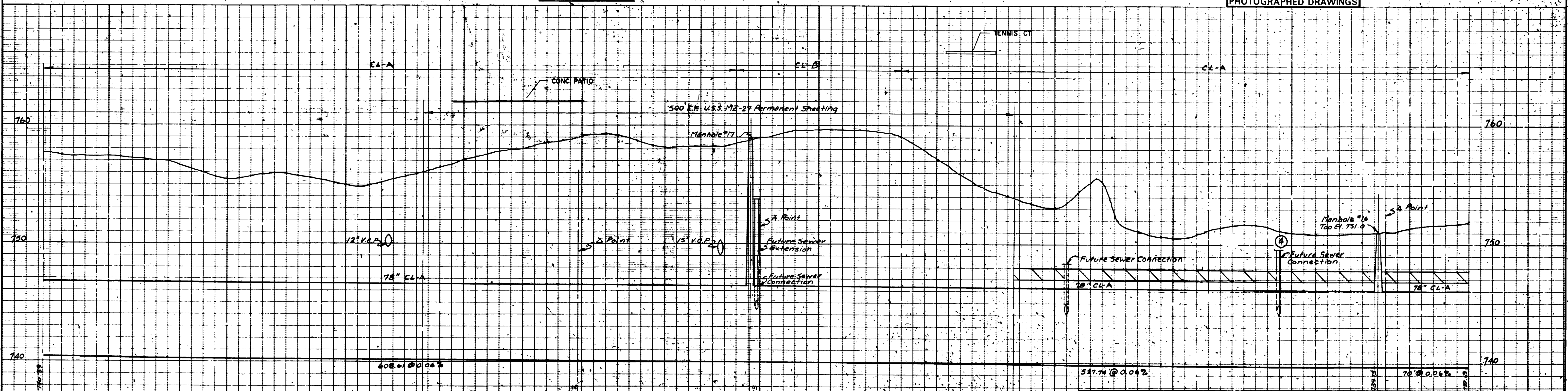
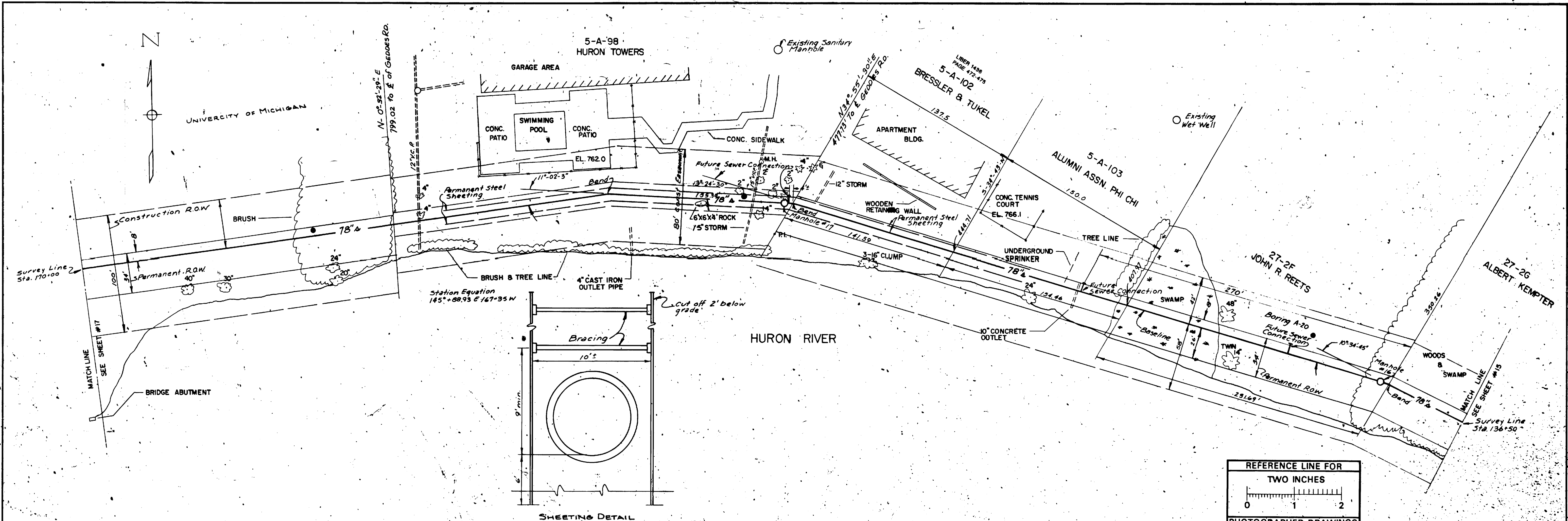
Digital Status
Scanned On: 7-3-05
By: BJK

OCT 1970	DATE	SHEET NO. 15
DR BY ANB	INDEX NO. 7727	
TR BY JAC	SHELF NO.	
CH BY RGY		
REVISIONS		
① Add Future Sewer Connections 9/24/71		
② Relocated M.H.#14 and omitted M.H.#15		
SCALE: HORIZONTAL 1" = 40' VERTICAL 1" = 4'		

SANITARY SEWER
NORTHSIDE INTERCEPTOR

FREDRICK A. MAMMEL
SUPERINTENDENT OF PUBLIC WORKS

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN
CONFORMING TO CONSTRUCTION RECORDS

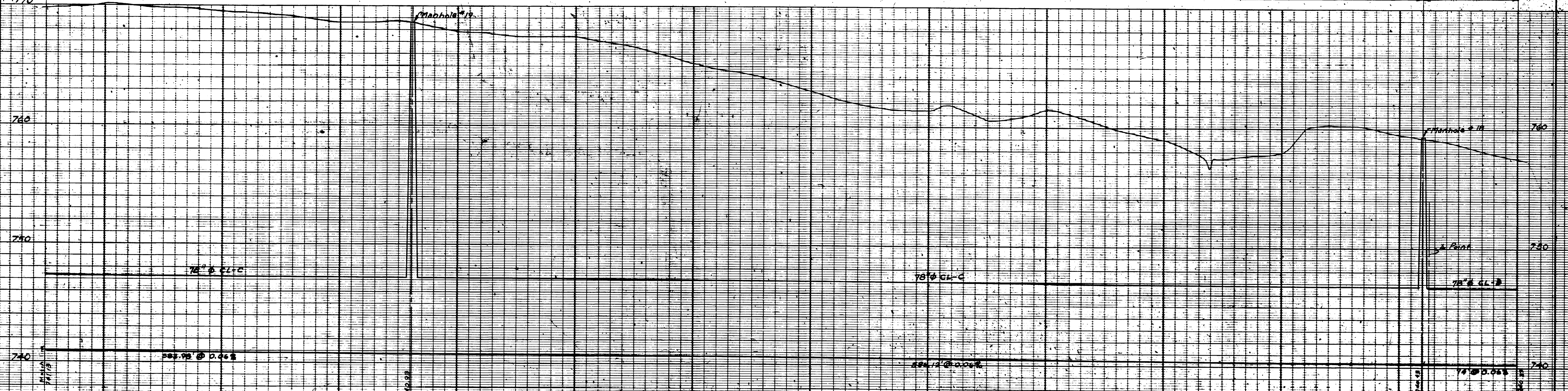
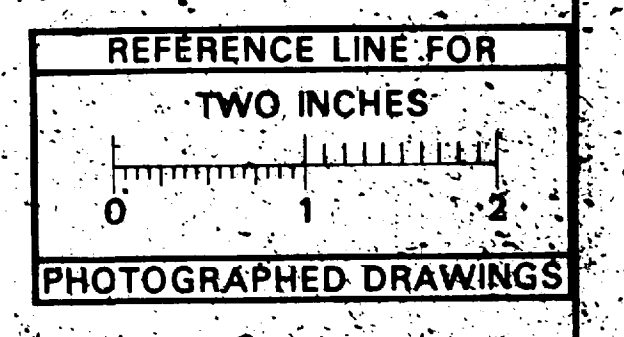
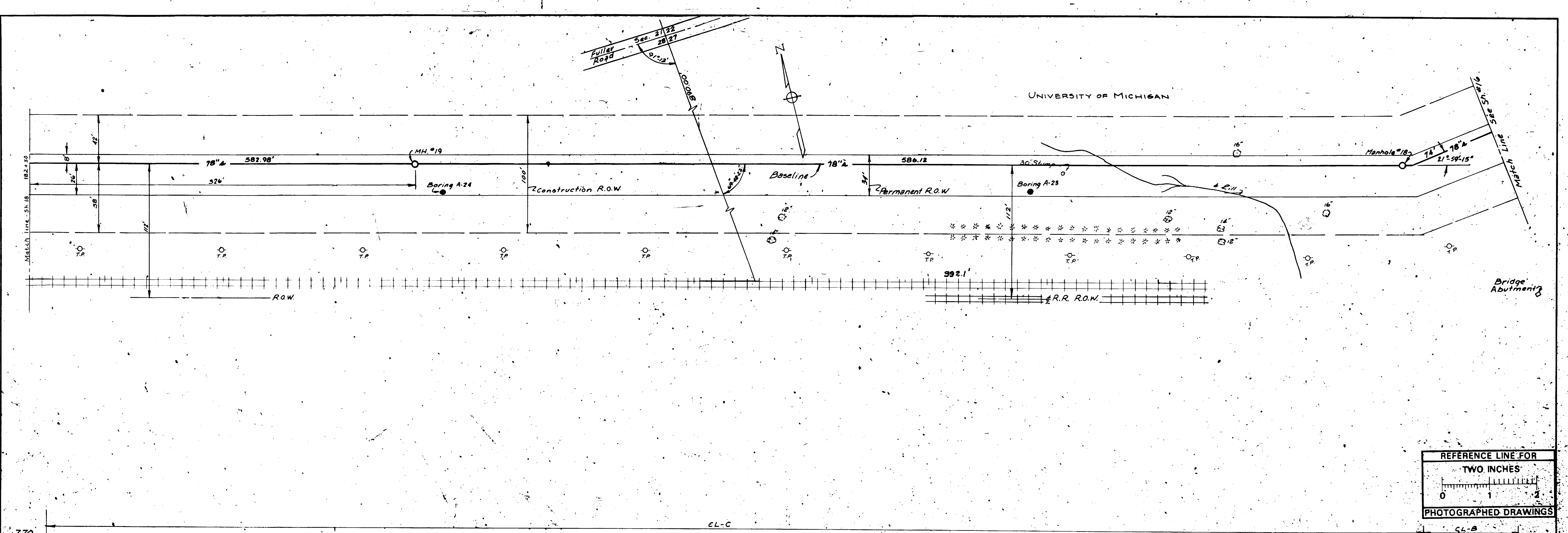


Digital Status
Scanned On 7-9-85
By DDK

OCT 1970 DATE SHEET NO. 16
 DR BY A.N.B. INDEX NO. 7738
 BY J.R.C. SHEET NO.
 P.C.Y.
 REVISIONS:
 ① Add Future Sewer Connection 9/30/71

SANITARY SEWER
6-C-5132
 NORTHSIDE INTERCEPTOR
 SCALE: HORIZONTAL 1"=40'
 VERTICAL 1"=4'
 FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN
 CONFORMING TO CONSTRUCTION RECORDS



Digital Status
Scanned On: 7-5-05
By: DCK

Oct. 1970	DATE	SHEET NO. 17
DR. BY AMB.	INDEX NO. 7739	
TR. BY J.R.C.	SHELF NO.	
CH. BY P.C.Y.		
REVISIONS		

6-C-5133

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 4'

SANITARY SEWER
NORTHSIDE INTERCEPTOR
FREDRICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS

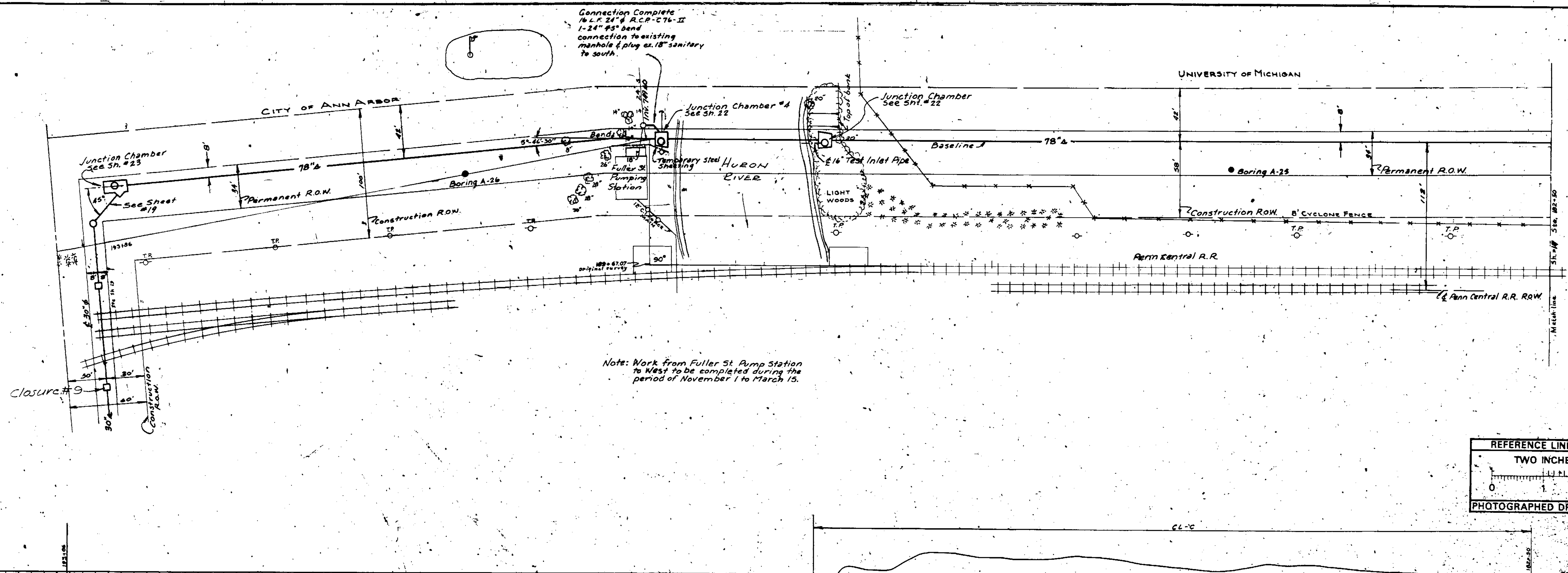
PREPARED BY McNAMEE, PORTER AND SEELEY CONSULTING ENGINEERS

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN
CONFORMING TO CONSTRUCTION RECORDS

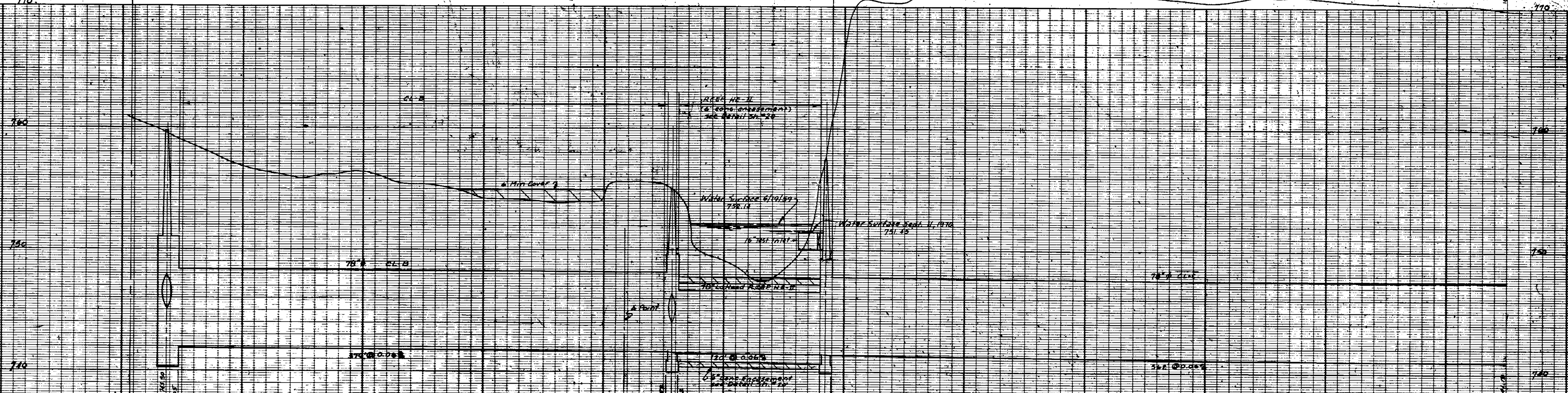
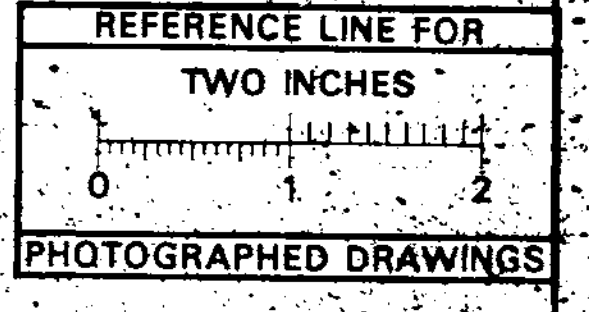
sp. ity class
here.



Connection Complete
16" L.F. 24' R.C.P. C-76-II
1-24" 45° bend
connection to existing
manhole & plug on 18" sanitary
to south.



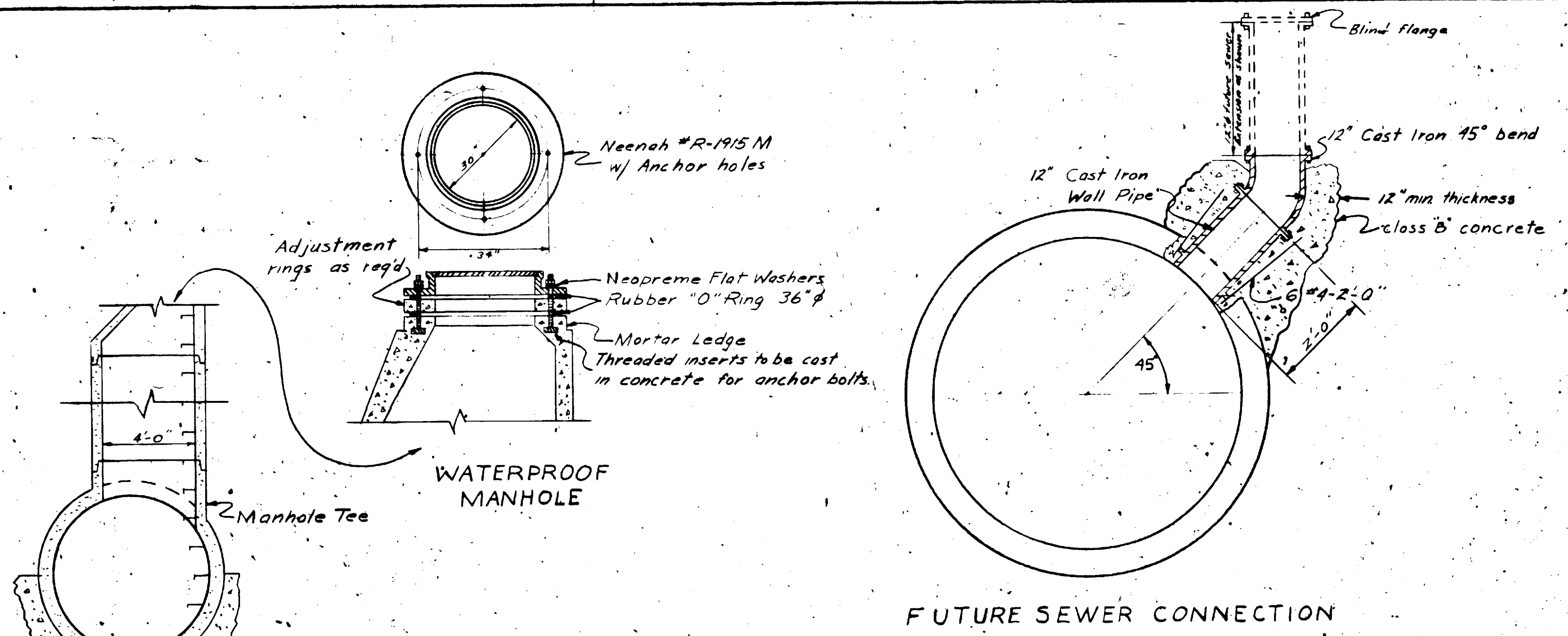
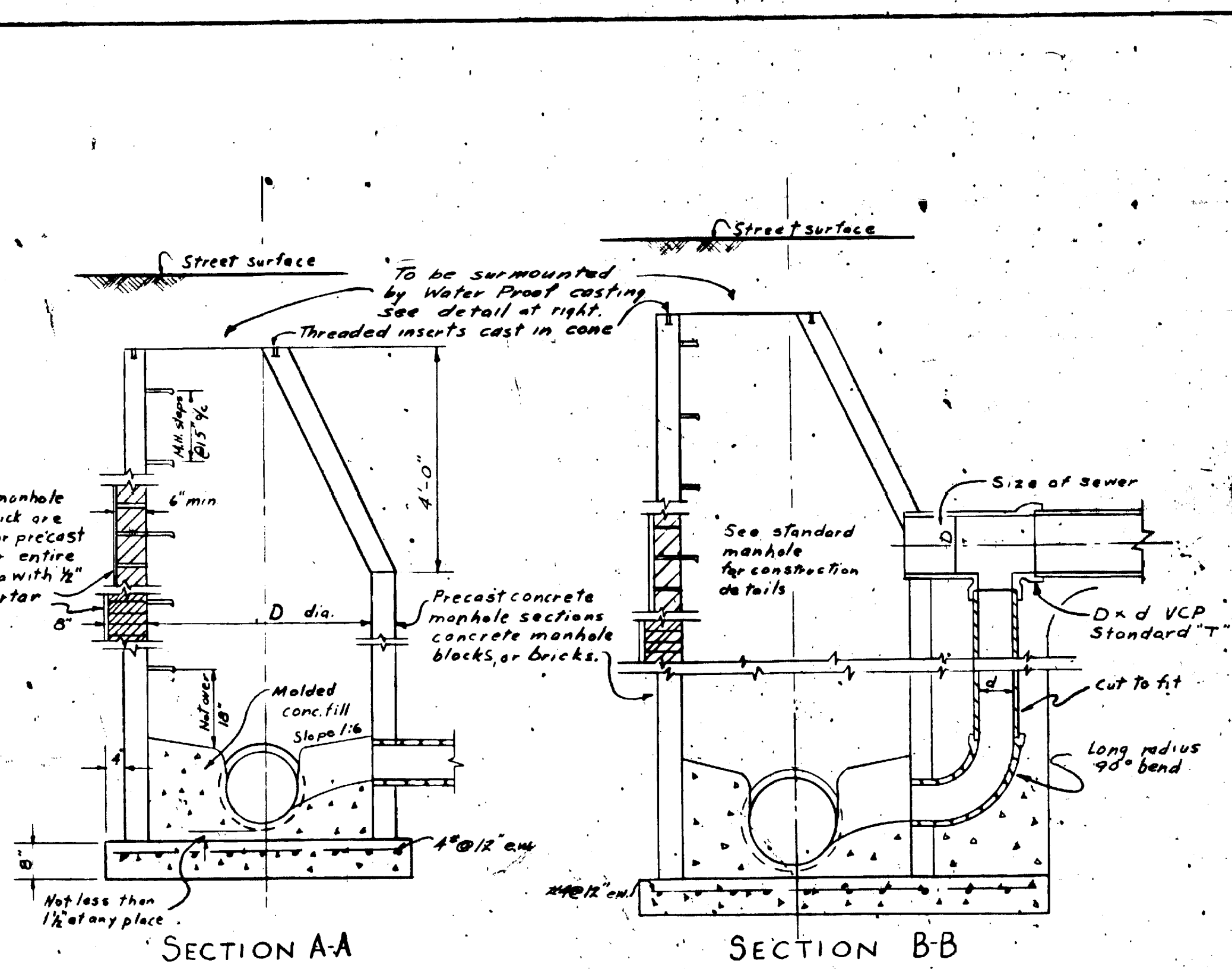
Note: Work from Fuller St Pump Station
to West to be completed during the
period of November 1 to March 15.



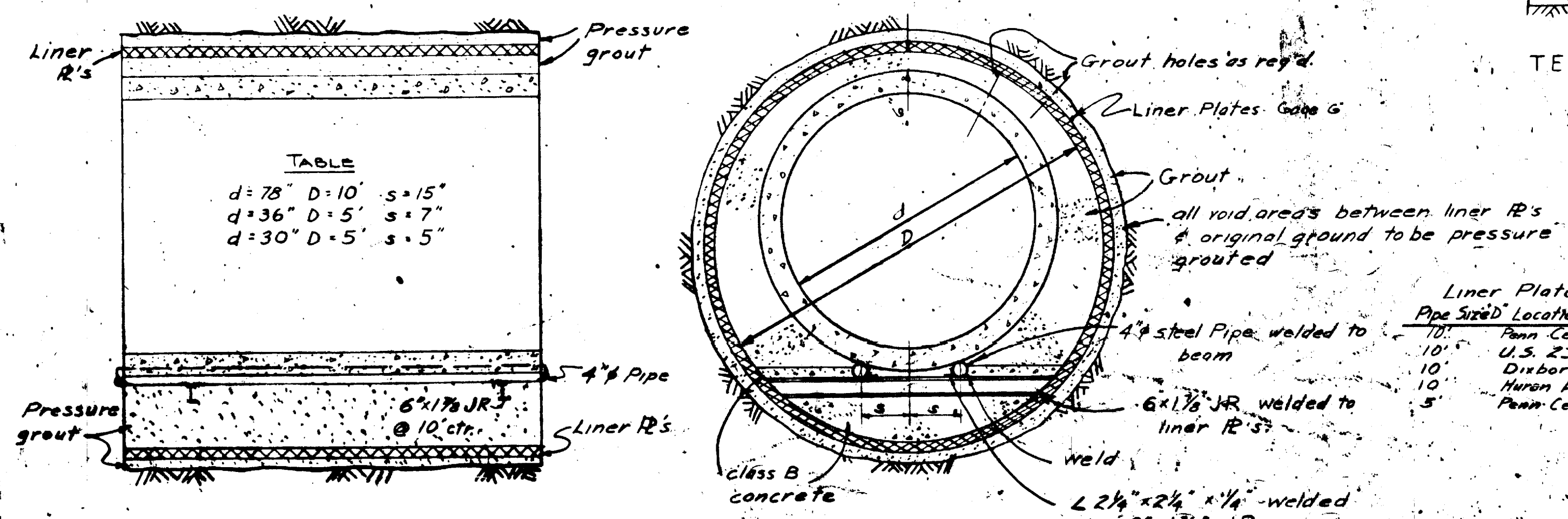
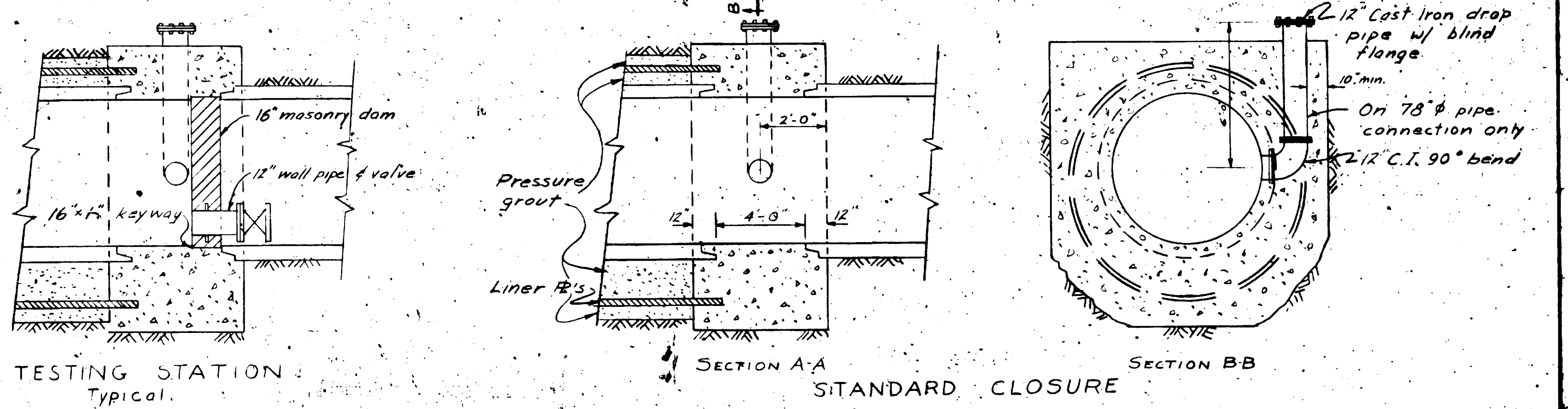
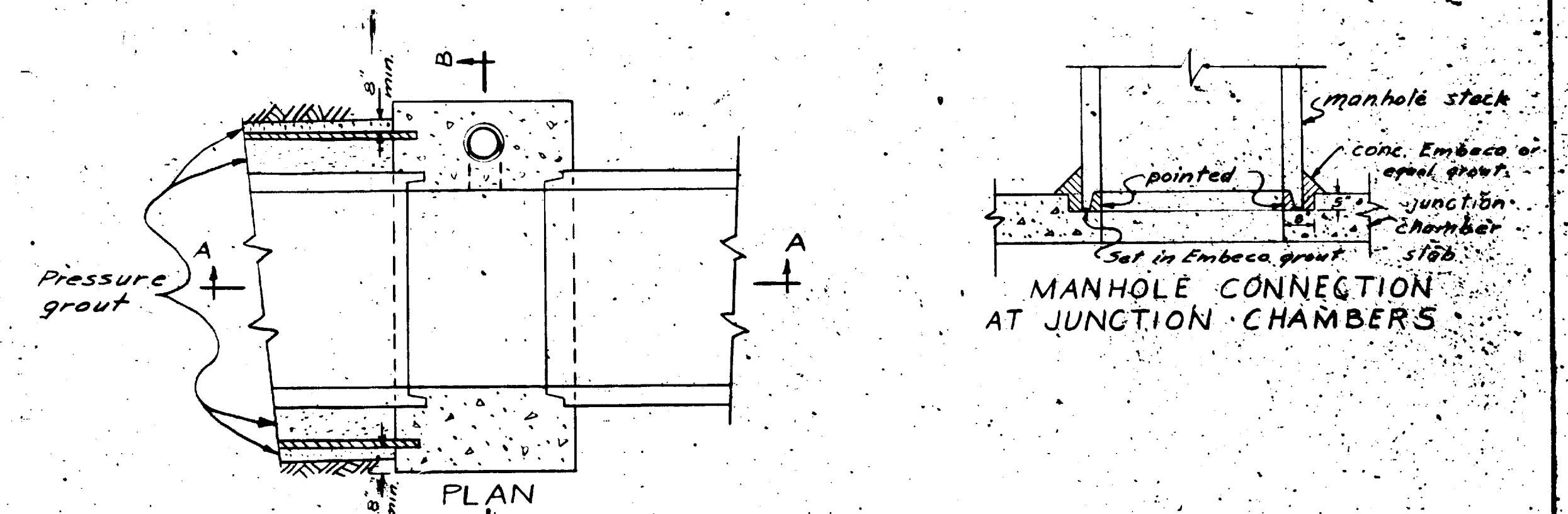
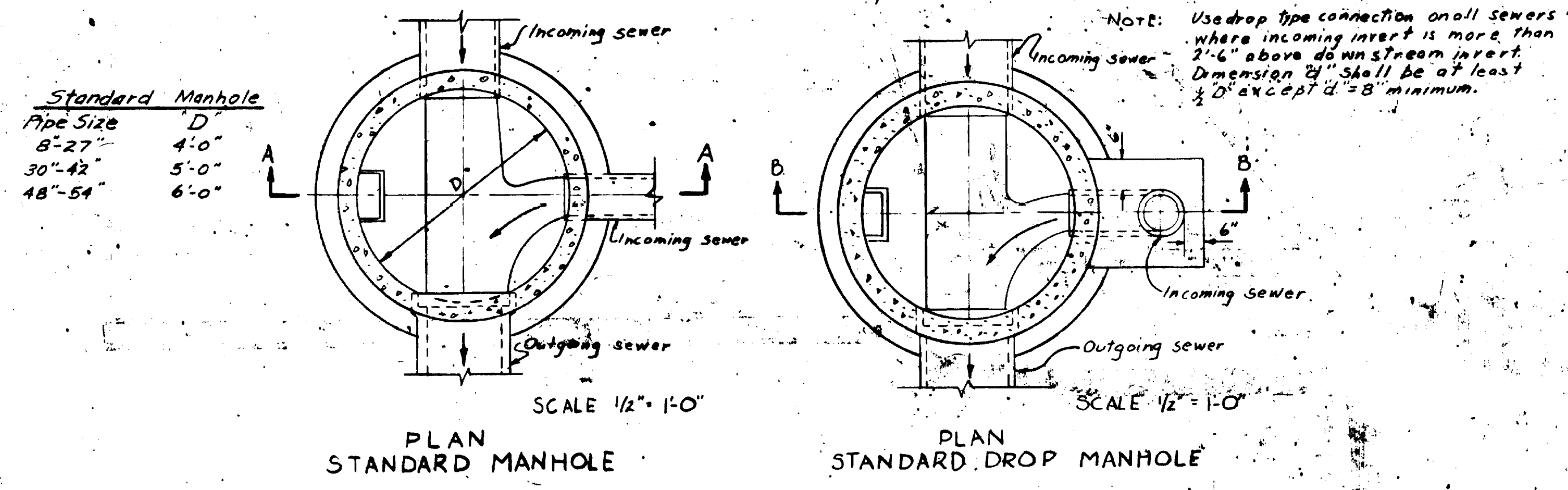
Digital Status
Scanned Oct 2-9-08
By ENK

DATE	OCT 1970	SHEET NO.	18	SANITARY SEWER	
DR BY	A.M.B.	INDEX NO.	7740	6-C-5134 NORTHSIDE INTERCEPTOR	
TR BY	J.R.C.	SWEEP NO.			
CH BY	P.C.V.	REVISIONS		FREDERICK A. MAMMEL SUPERINTENDENT OF PUBLIC WORKS	
SCALE: HORIZONTAL 1"=40'		VERTICAL 1"=4'		PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN	
CONFORMING TO CONSTRUCTION RECORDS					

Prepared by McNAMEE, PORTER AND SEELEY
CONSULTING ENGINEERS

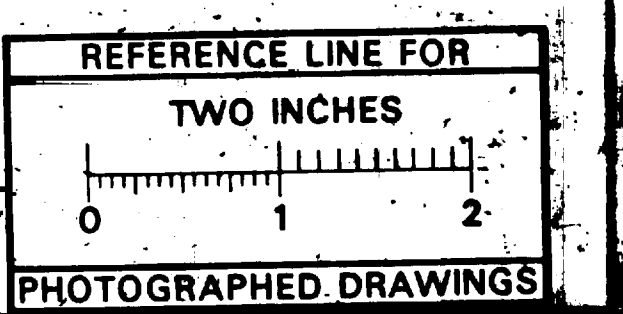
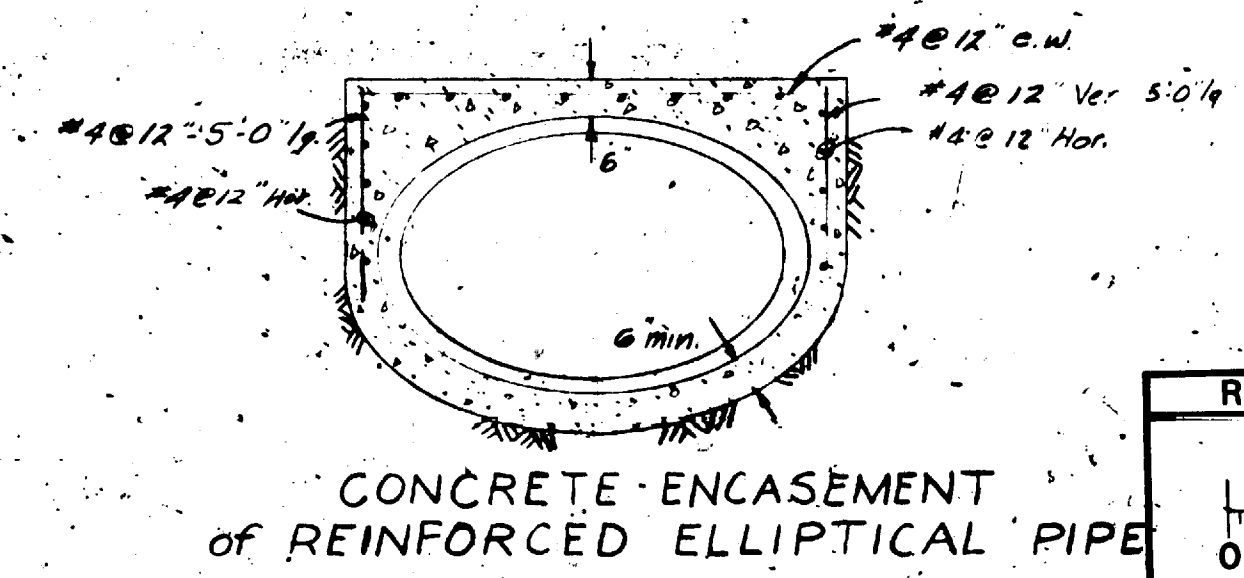
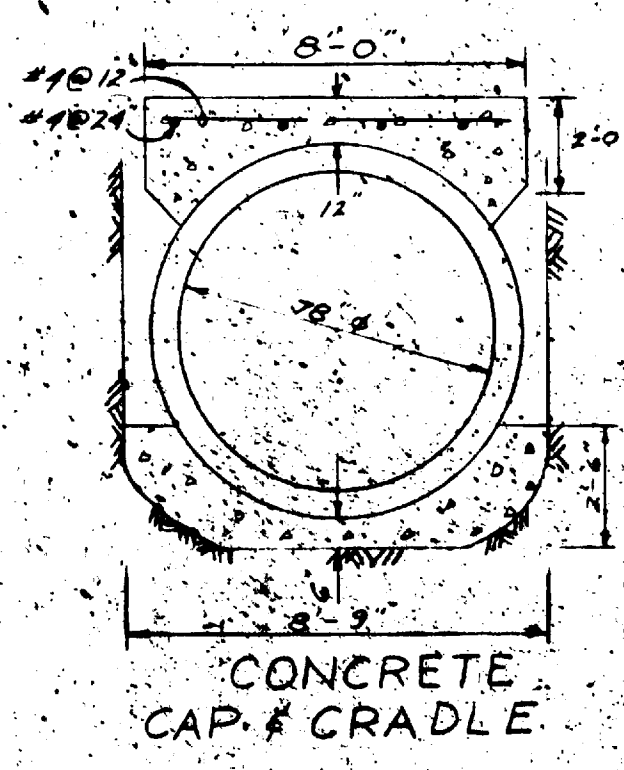


STANDARD MANHOLE FOR 78" SEWER



Liner Plate Gage

Pipe Size	D' Location	G'
10'	Penn Central RR	8
10'	U.S. 23	5
10'	Disboro	10
10'	Muron Parkway	10
5'	Penn Central RR	12



SEWER IN CASING PIPE HIGHWAY AND RAILWAY CROSSINGS.

NO SCALE

Note: See specifications for alternate methods of tunnel construction.

Digital Status

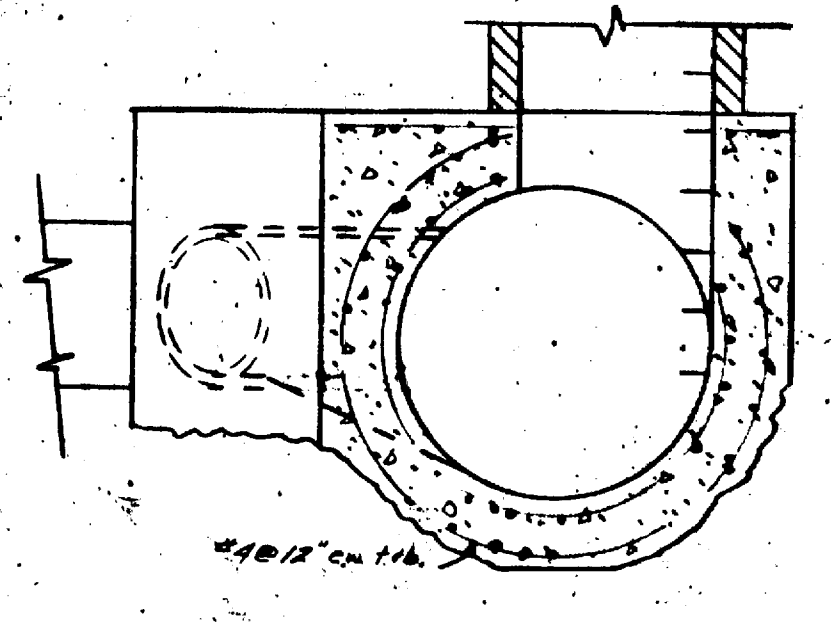
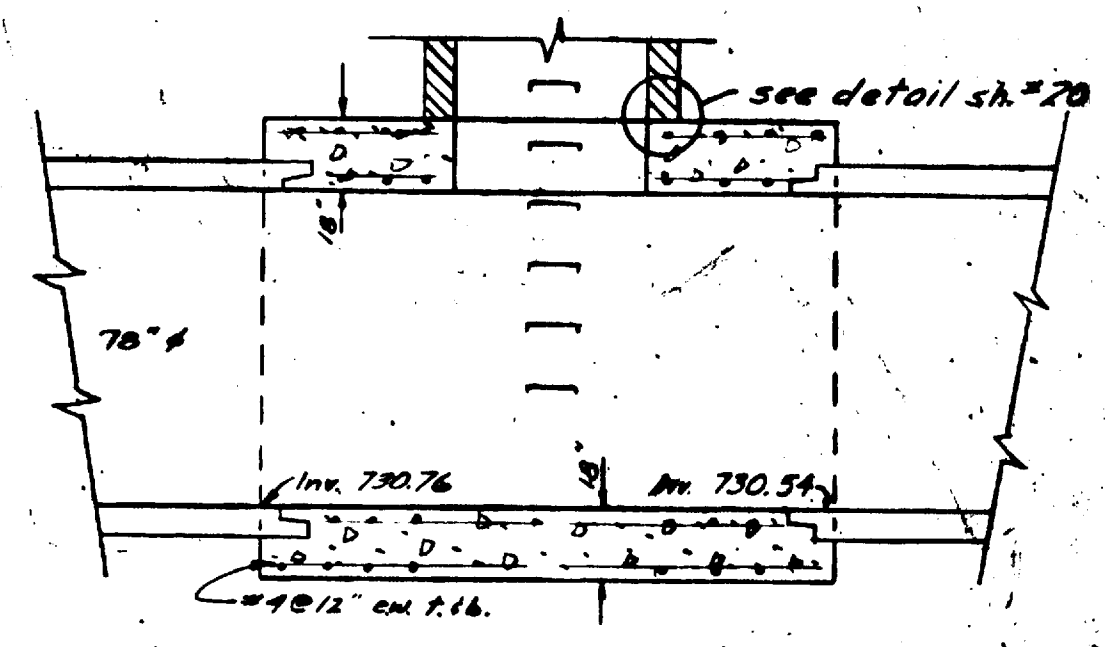
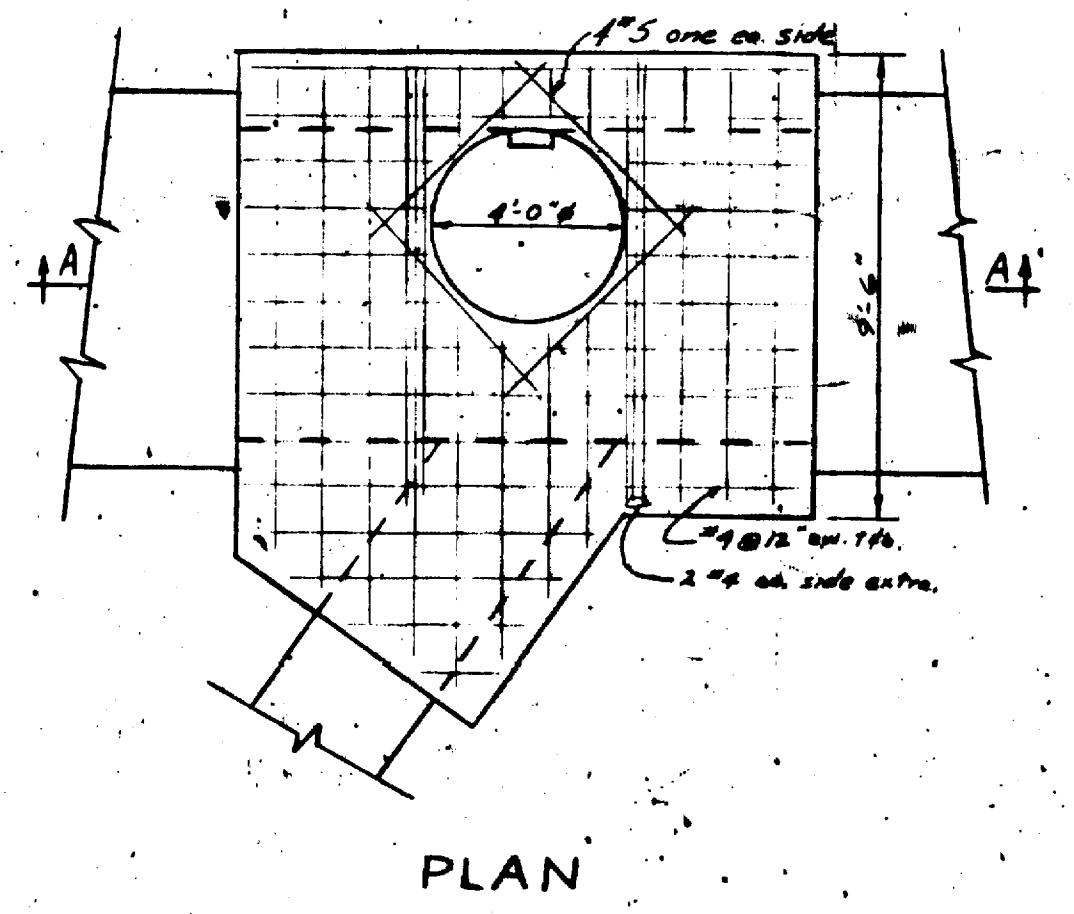
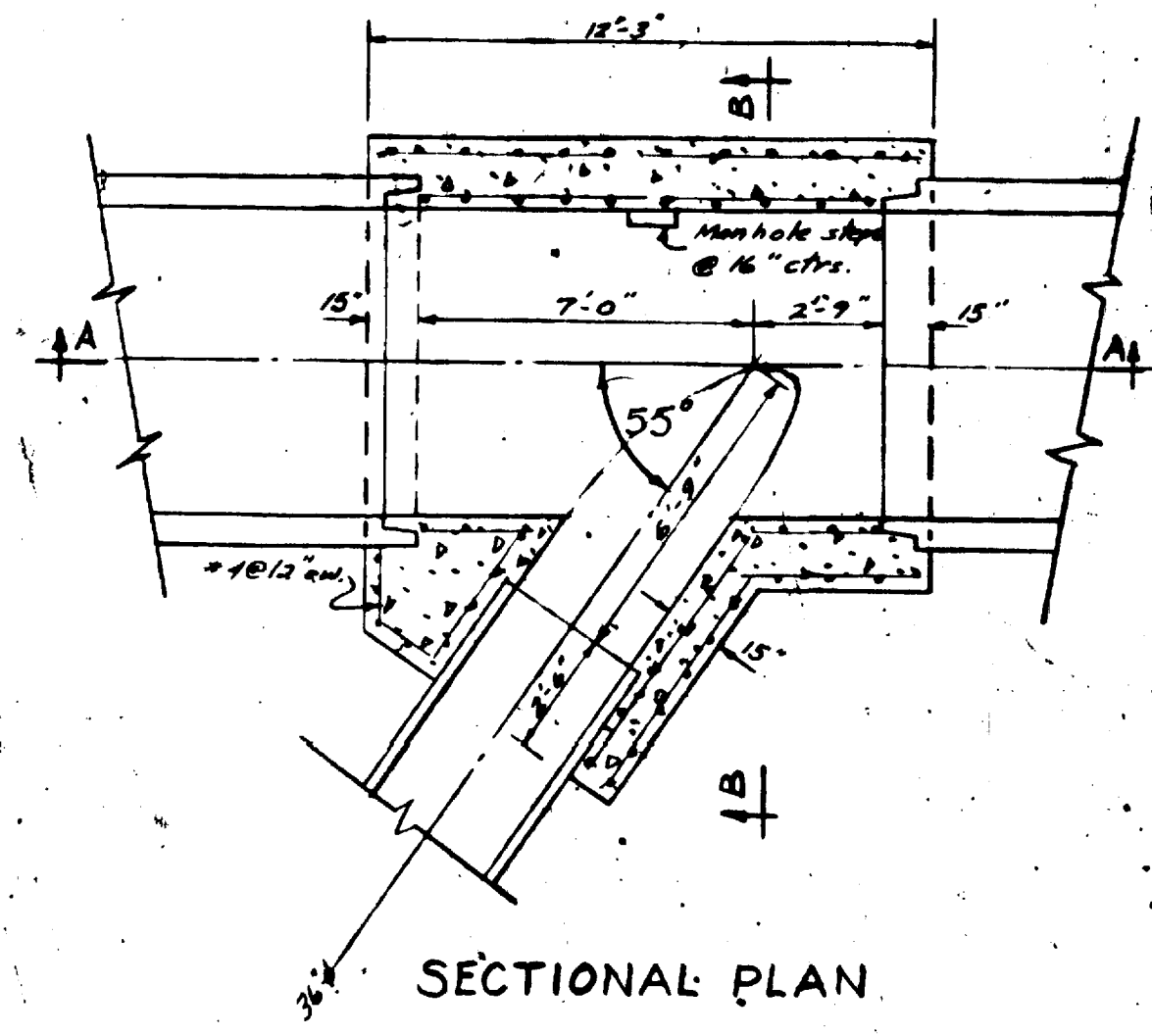
Stamped On: 7-5-05

By: PKK

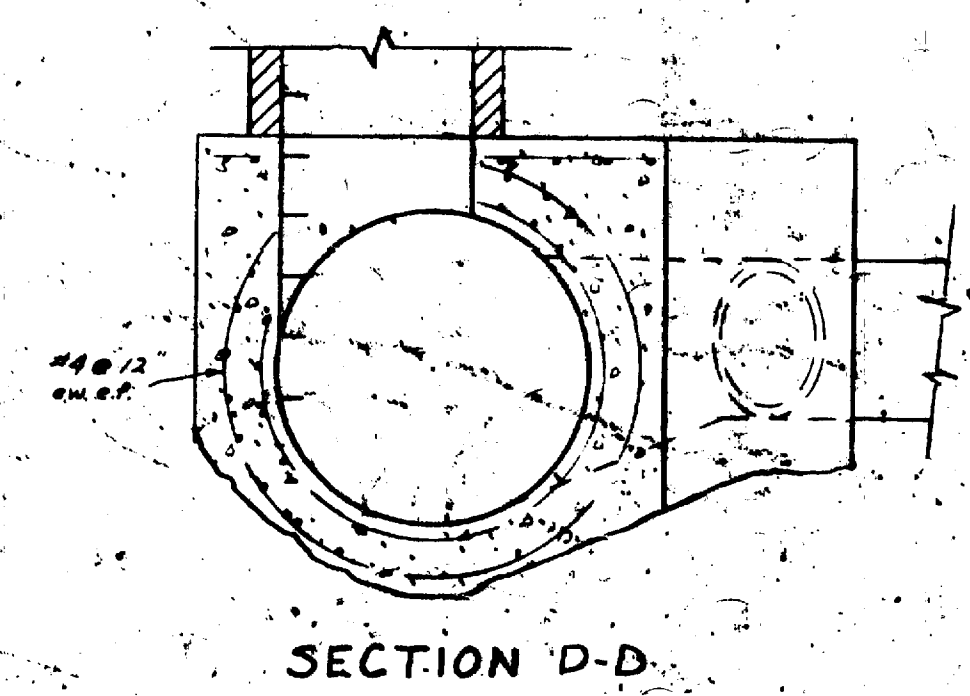
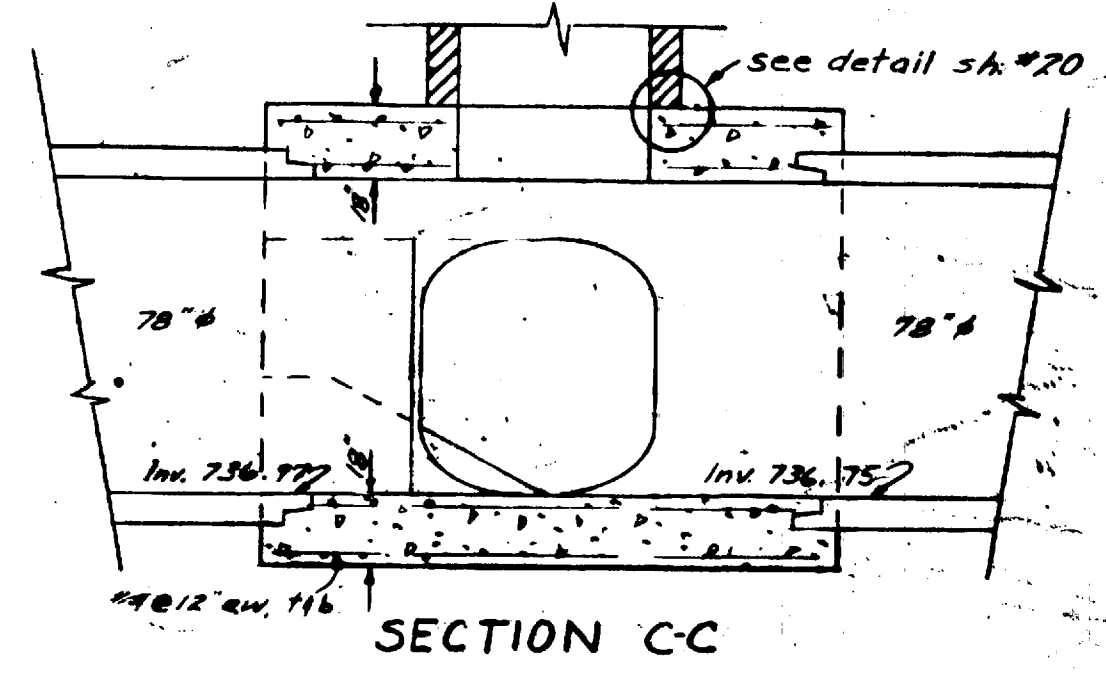
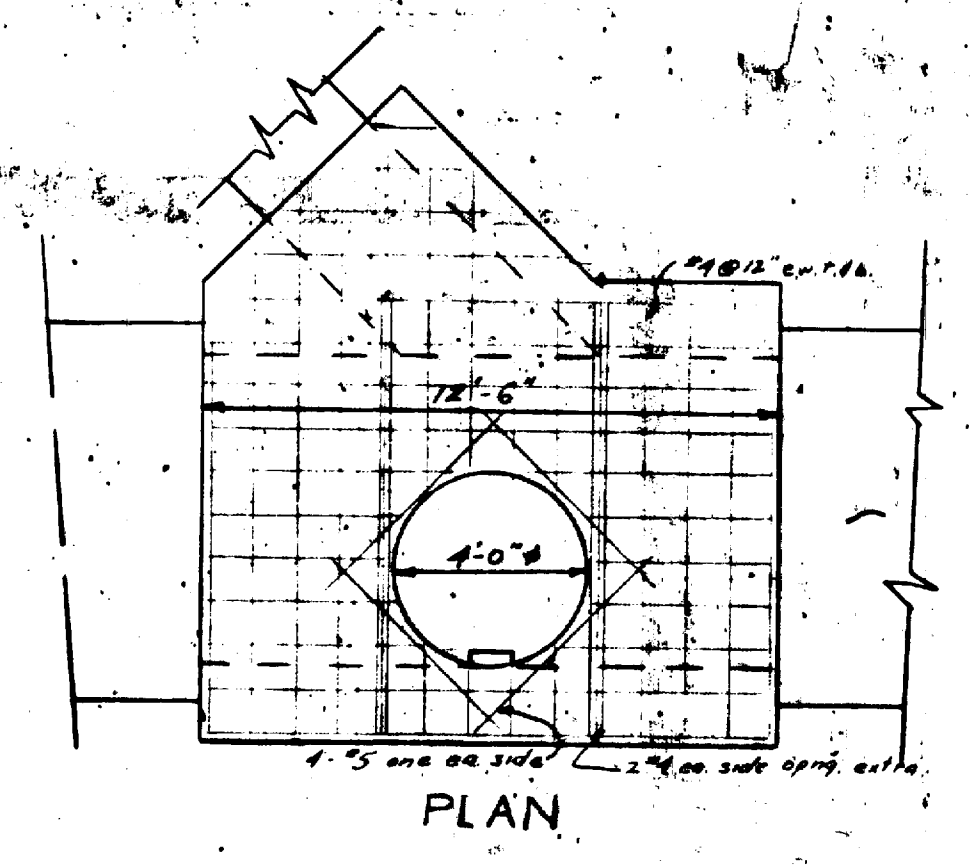
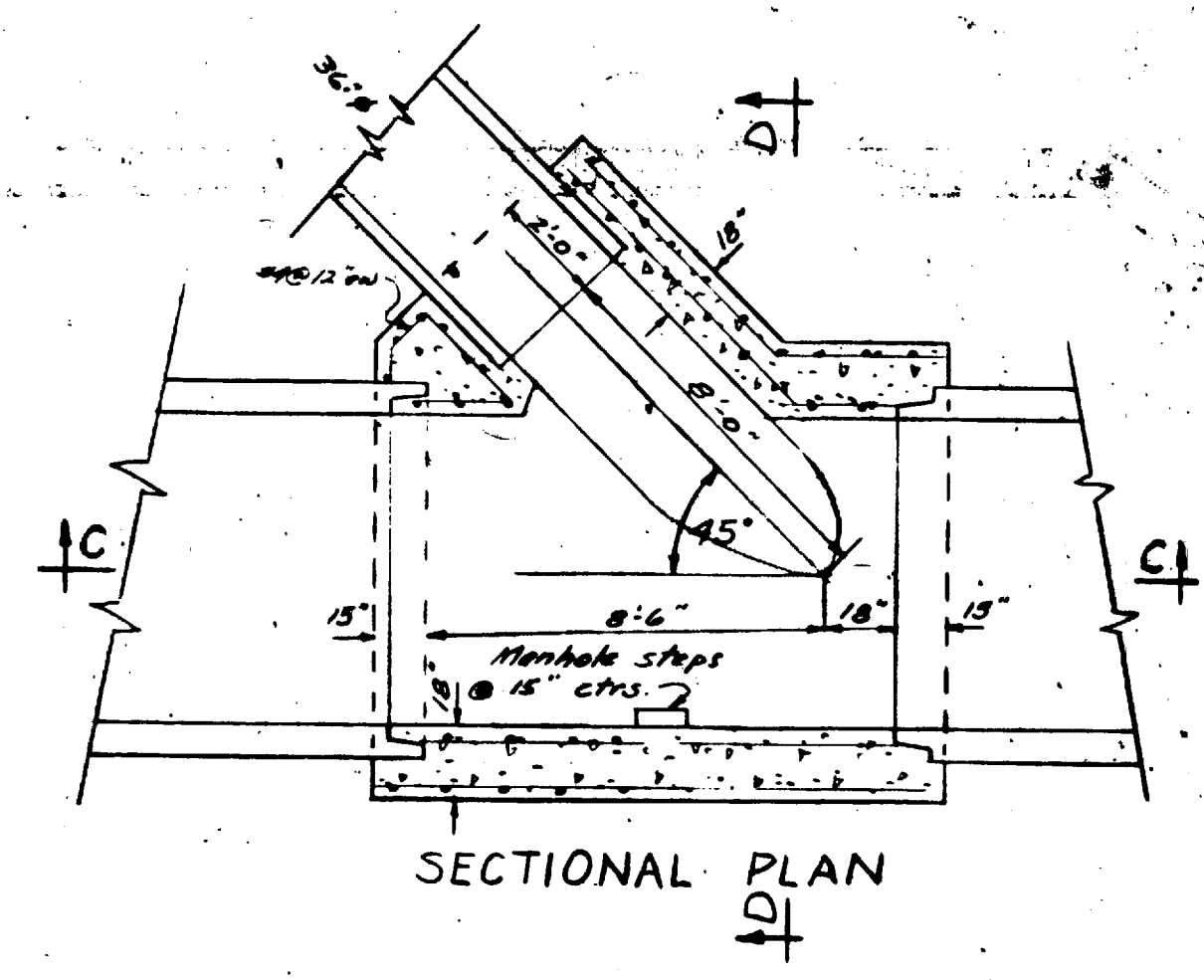
OCT 1971

6-G-5136

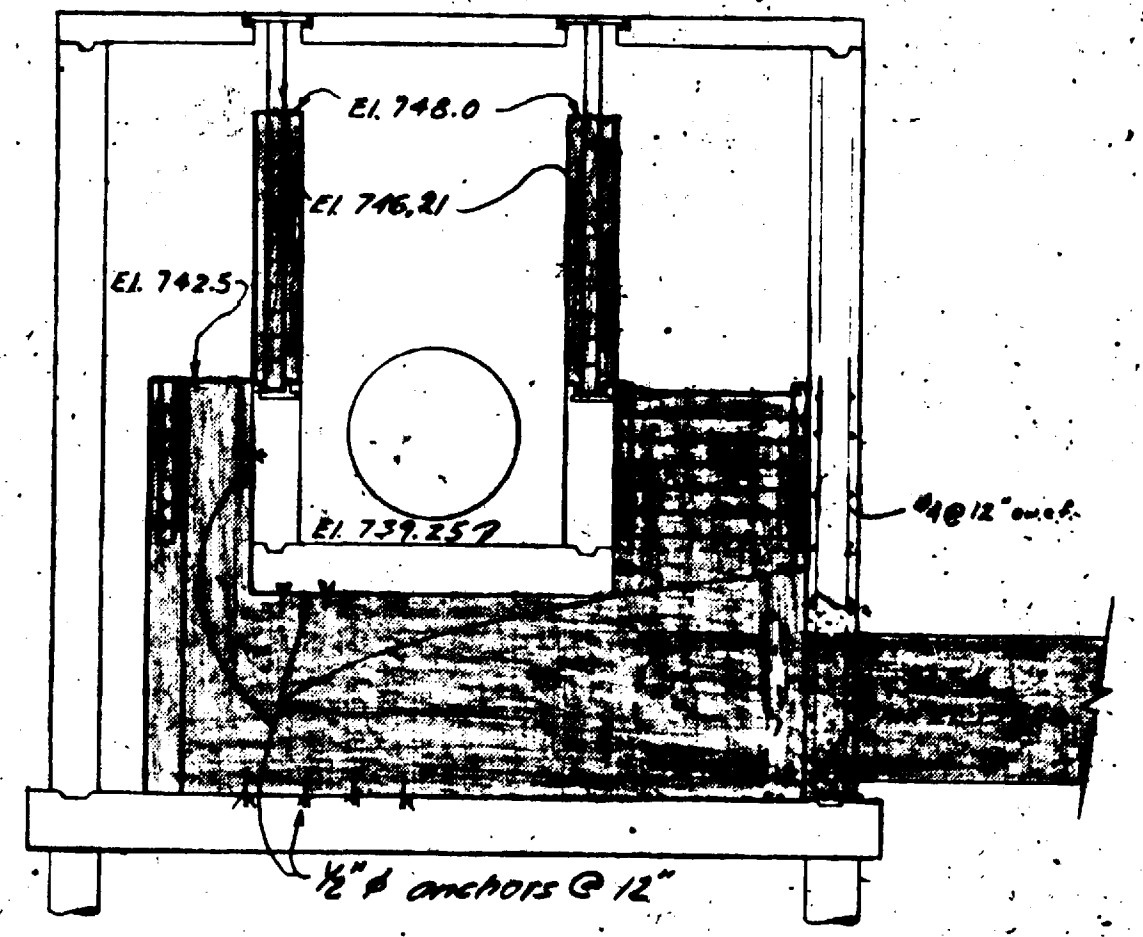
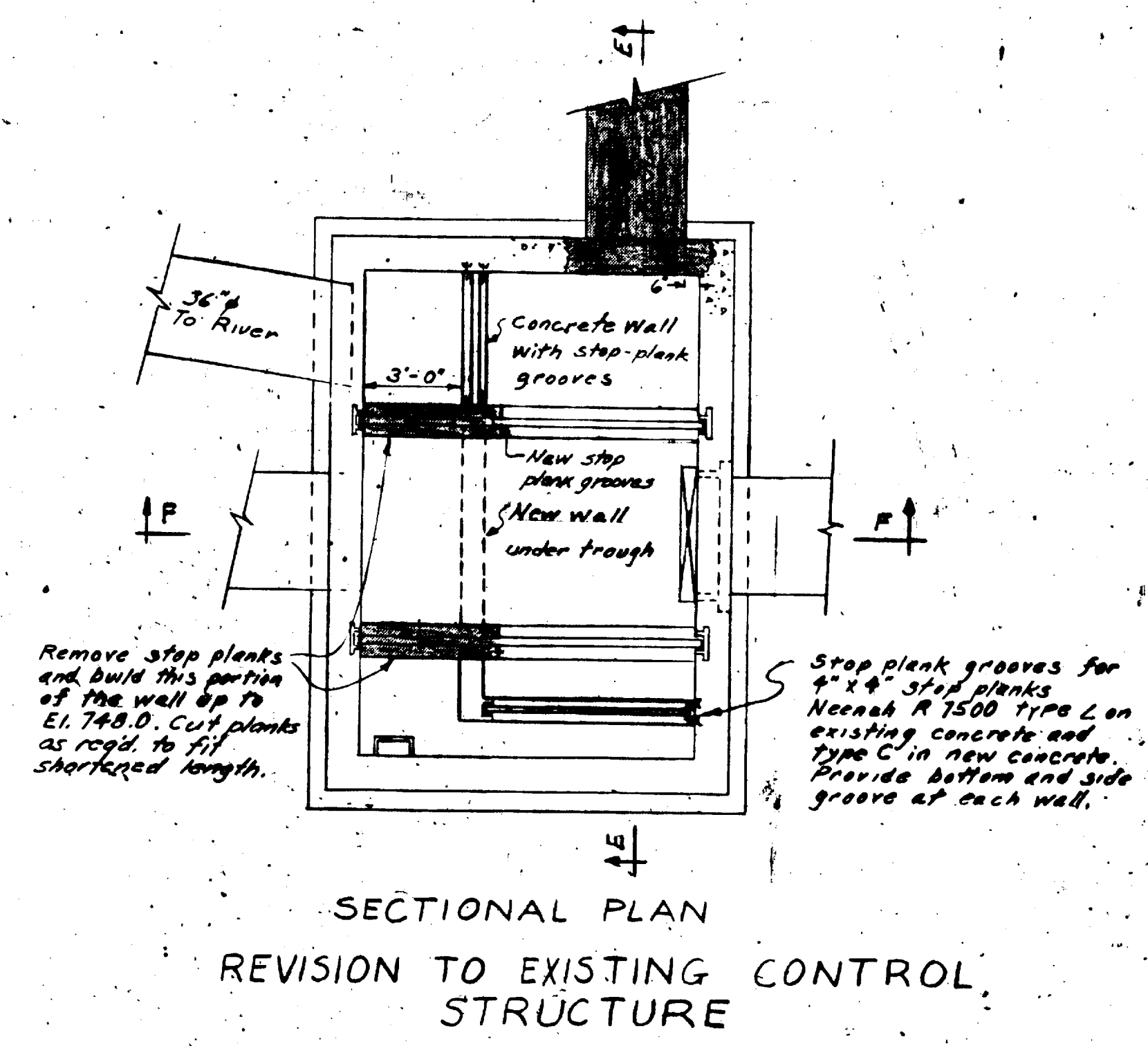
CONFORMING TO CONSTRUCTION RECORDS



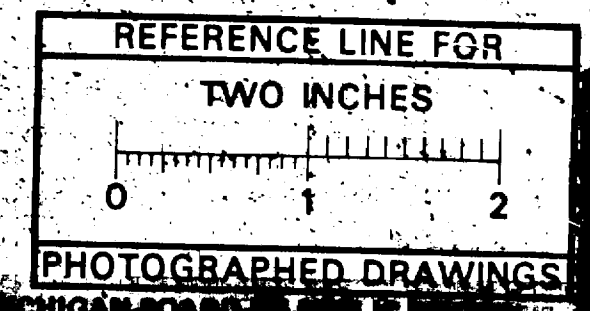
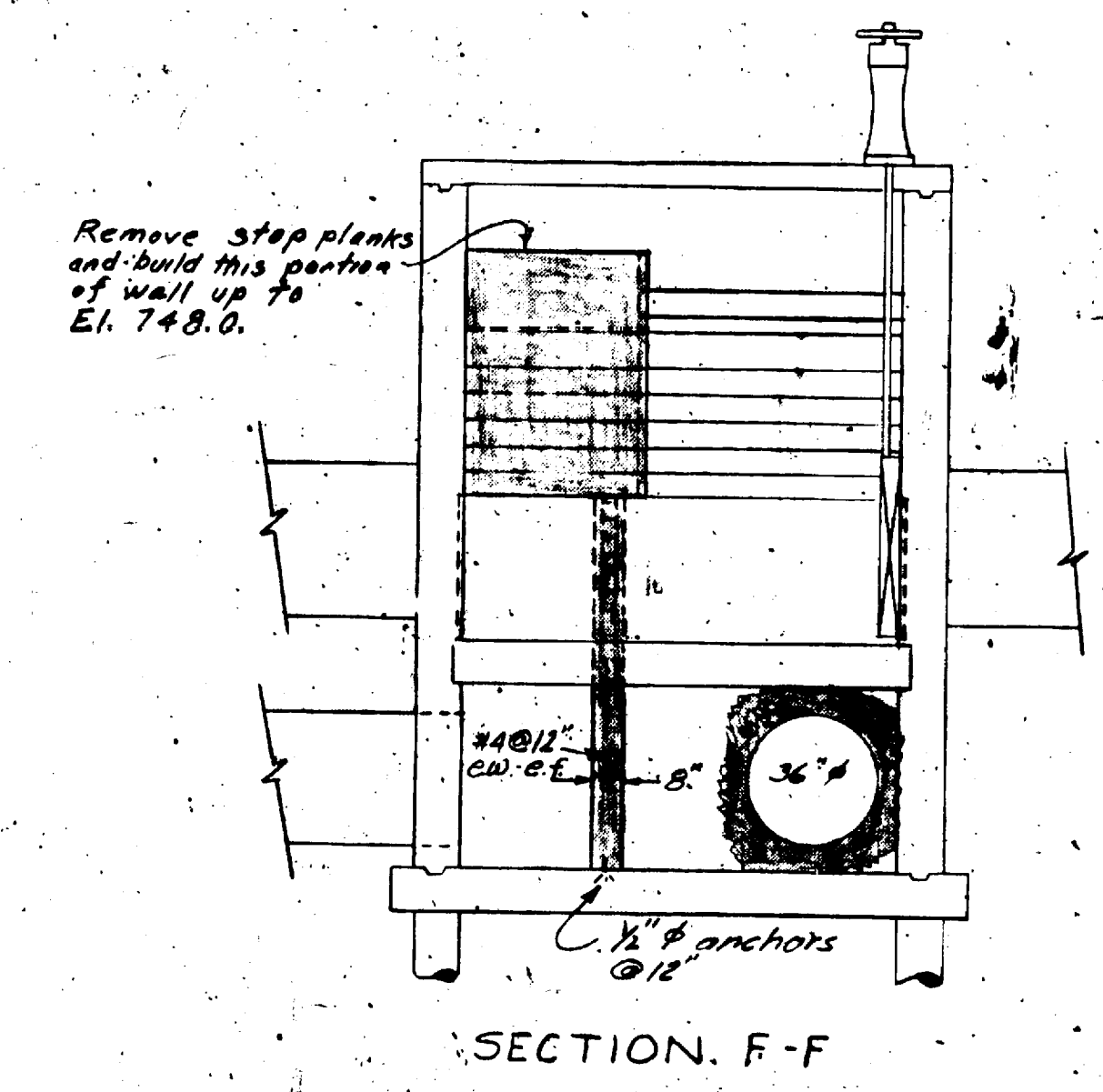
JUNCTION CHAMBER #1



JUNCTION CHAMBER #2
GEDDES ROAD



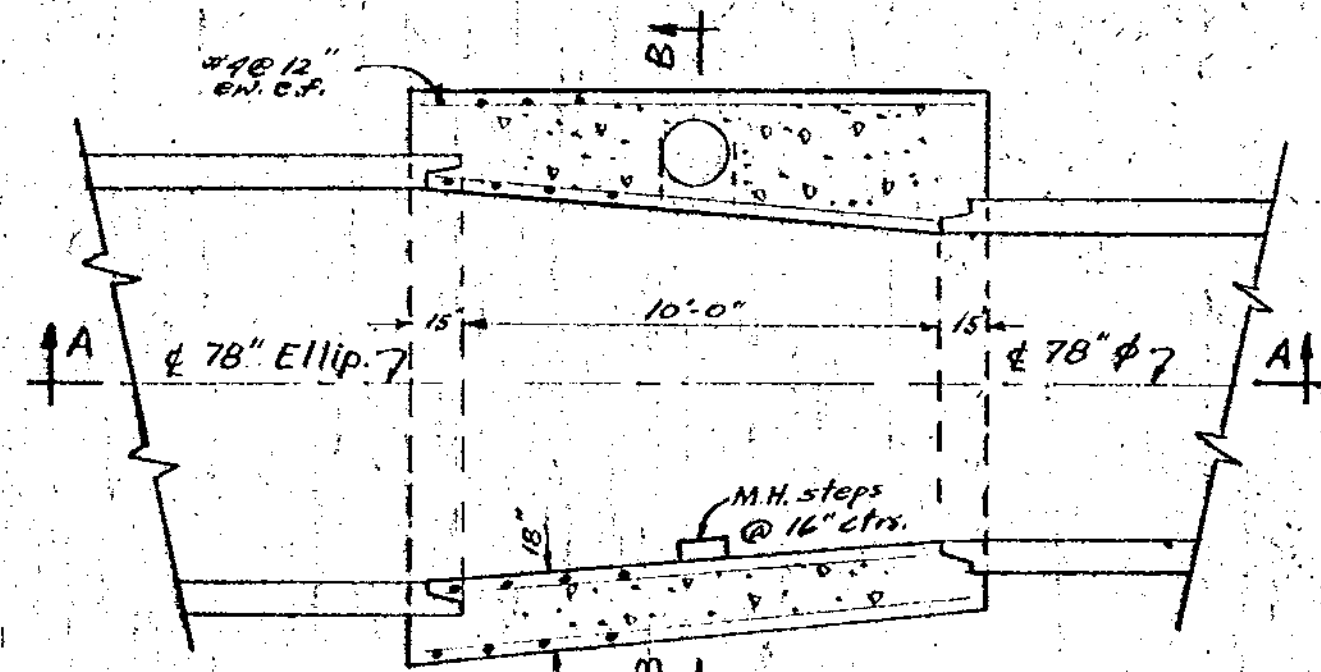
Note: New work shaded.



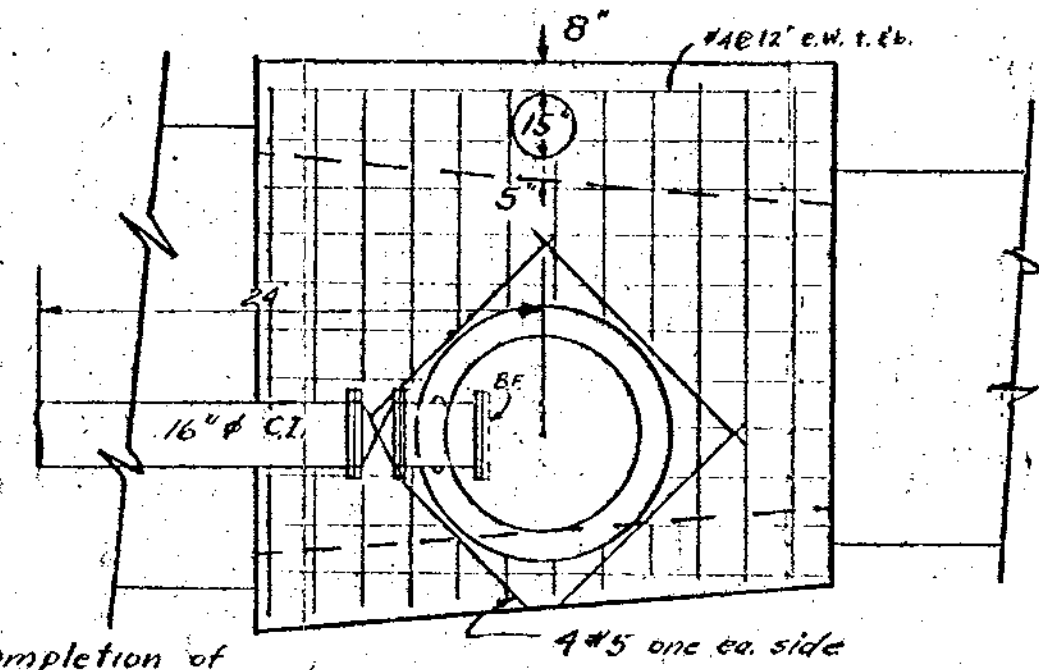
OCT 1970	DATE	SHEET NO.	OF TOTAL
DR BY E.N.B.	DESIGNED BY	CHECKED BY	APPROVED BY
BY E.N.B.	BY E.N.B.	BY E.N.B.	BY E.N.B.
BY E.N.B.	BY E.N.B.	BY E.N.B.	BY E.N.B.

Digital Status
Scanned On: 7-5-05
By: D.K.

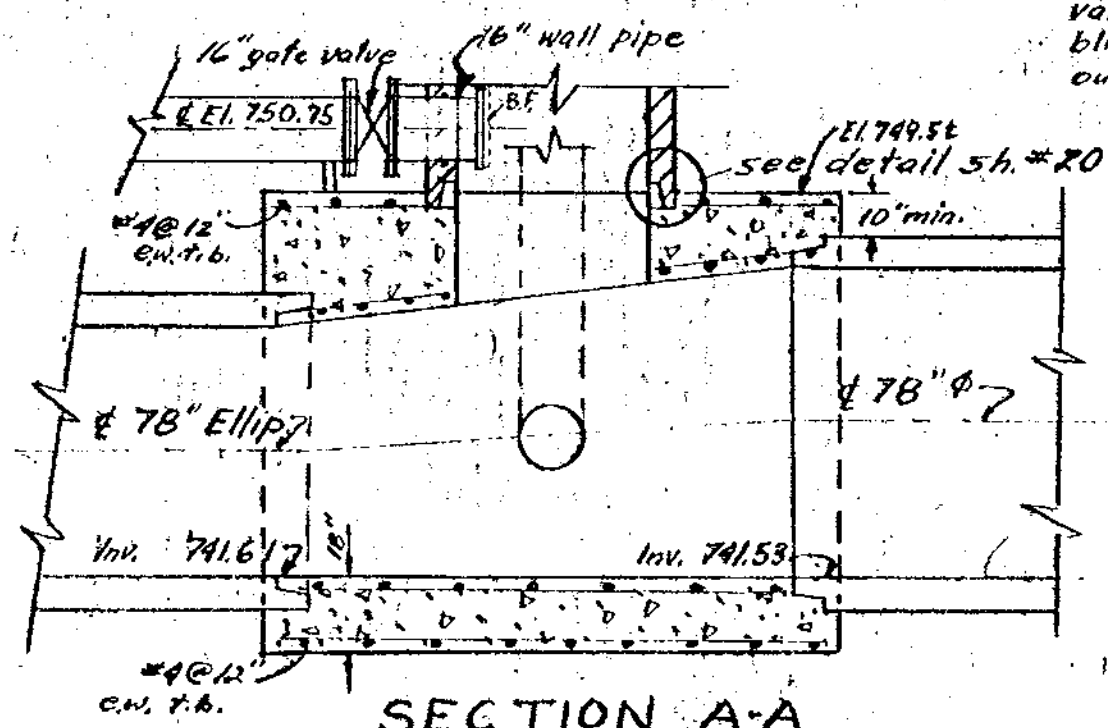
PHOTOGRAPHED DRAWINGS
MICHIGAN BOARD OF SURVEYORS
STATE OF MICHIGAN
COUNTY OF ...



SECTIONAL PLAN

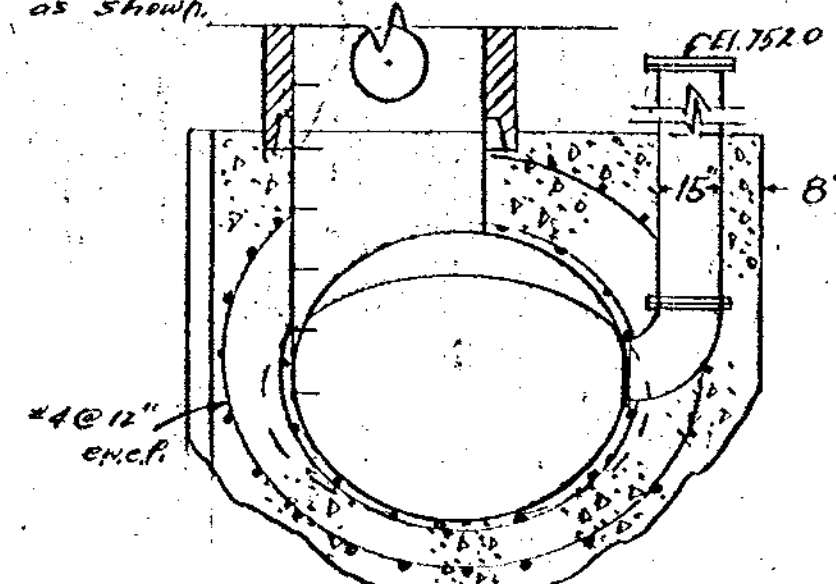


PLAN



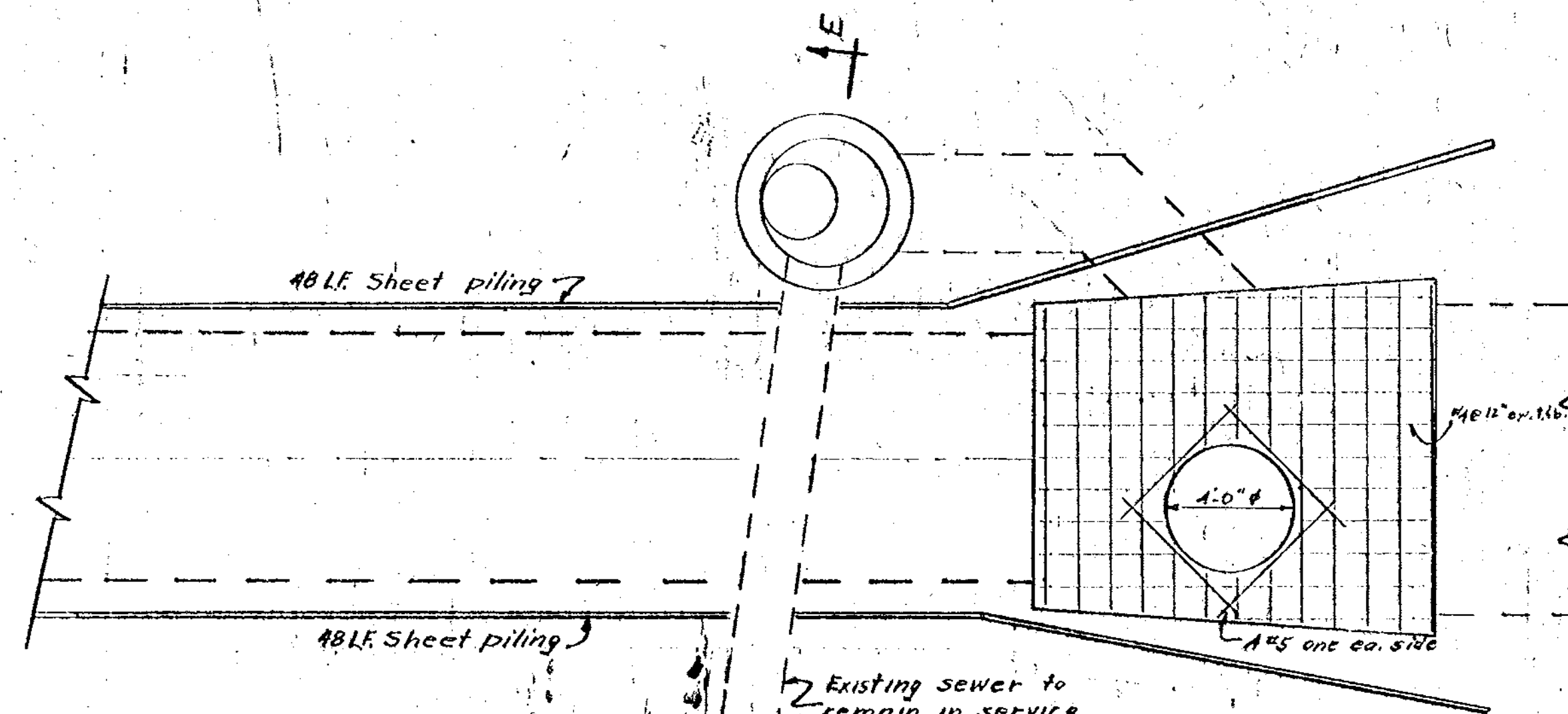
SECTION A-A

Note: Upon completion of testing, the Contractor shall remove the 16" gate valve & pipe in favor of place blind flanges on inside & outside of pipe as shown.

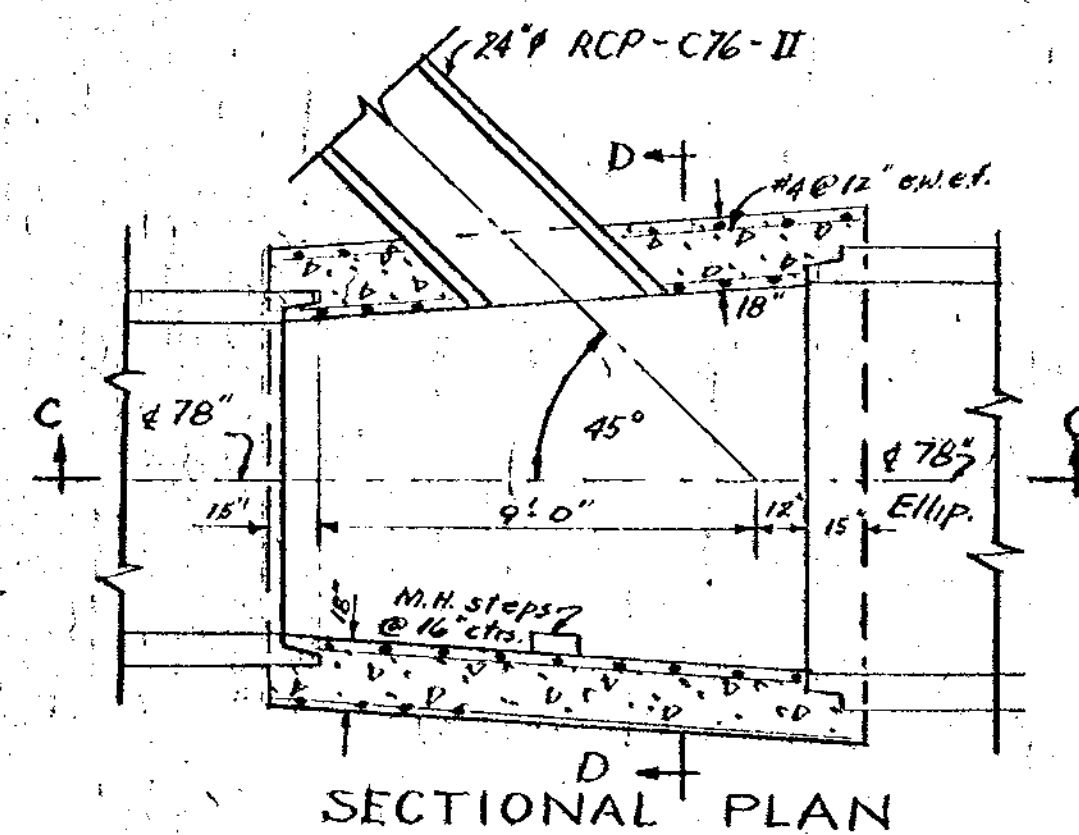


SECTION B-B

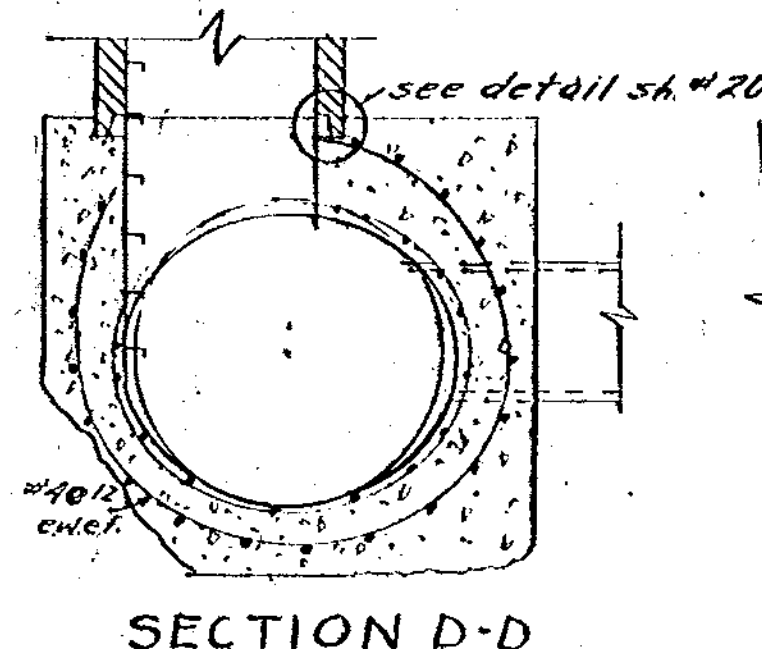
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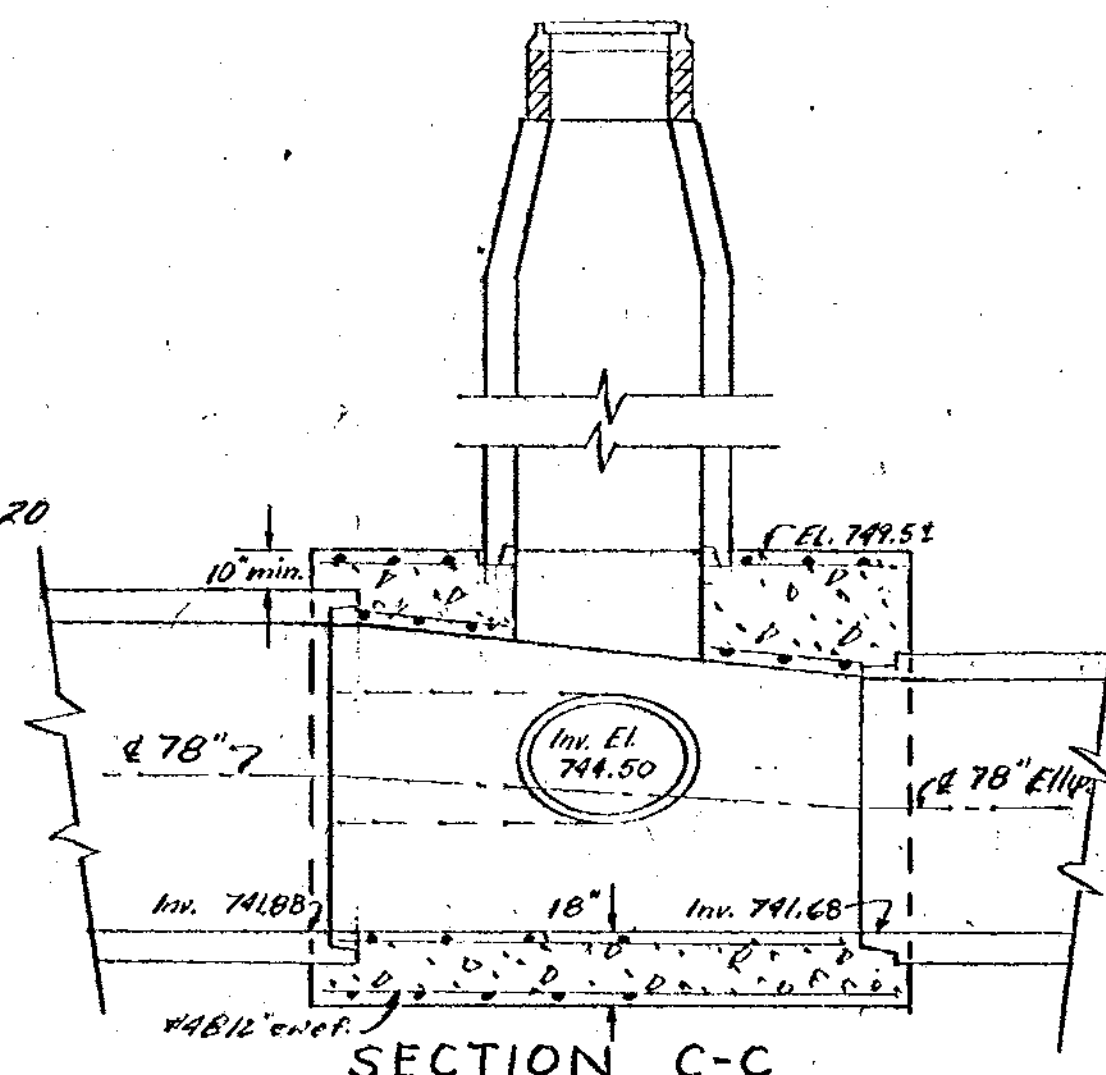
LOCATION PLAN WEST BANK JUNCTION CHAMBER #4



SECTIONAL PLAN

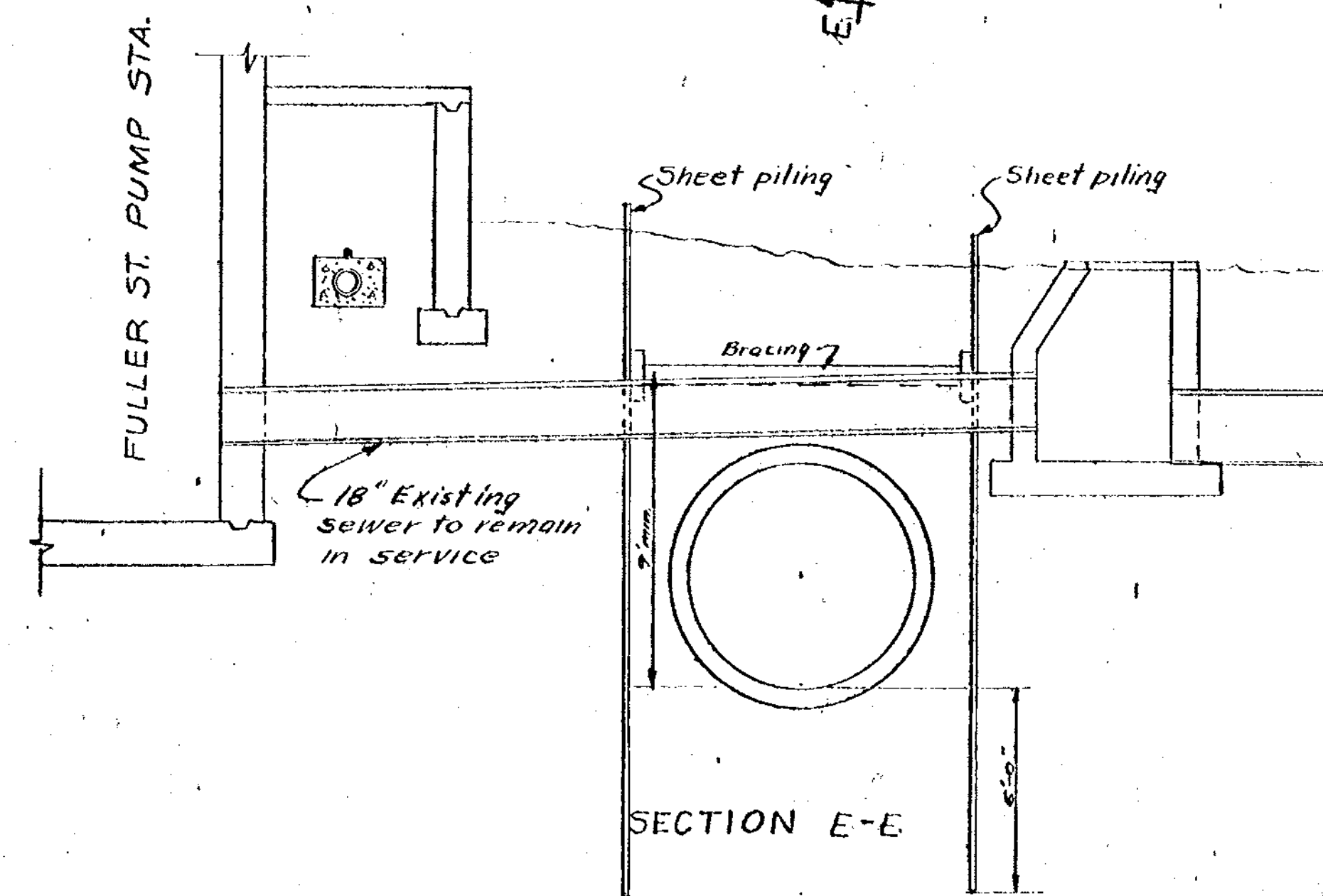


SECTION D-D



SECTION C-C

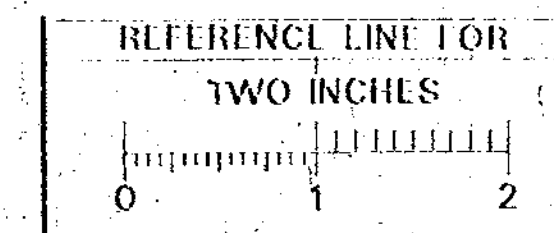
JUNCTION CHAMBER #4



SECTION E-E

Digital Status
Scanned On: 7-29-05
By: D. Galt

DIGITAL STATUS
SCANNED ON: 12/10/11
BY: [Signature]



OCT 1970	DATE	SHEET NO. 22
DR BY A.M.B.	INDEX NO. 7734	
TR BY J.R.C.	SHELF NO.	
CHK BY R.C.Y.		
REVISIONS		

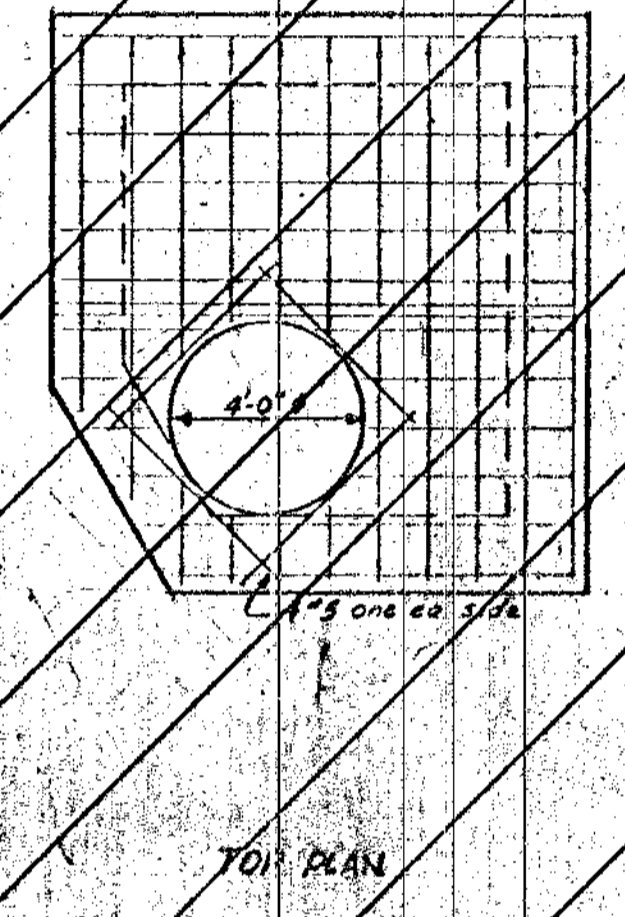
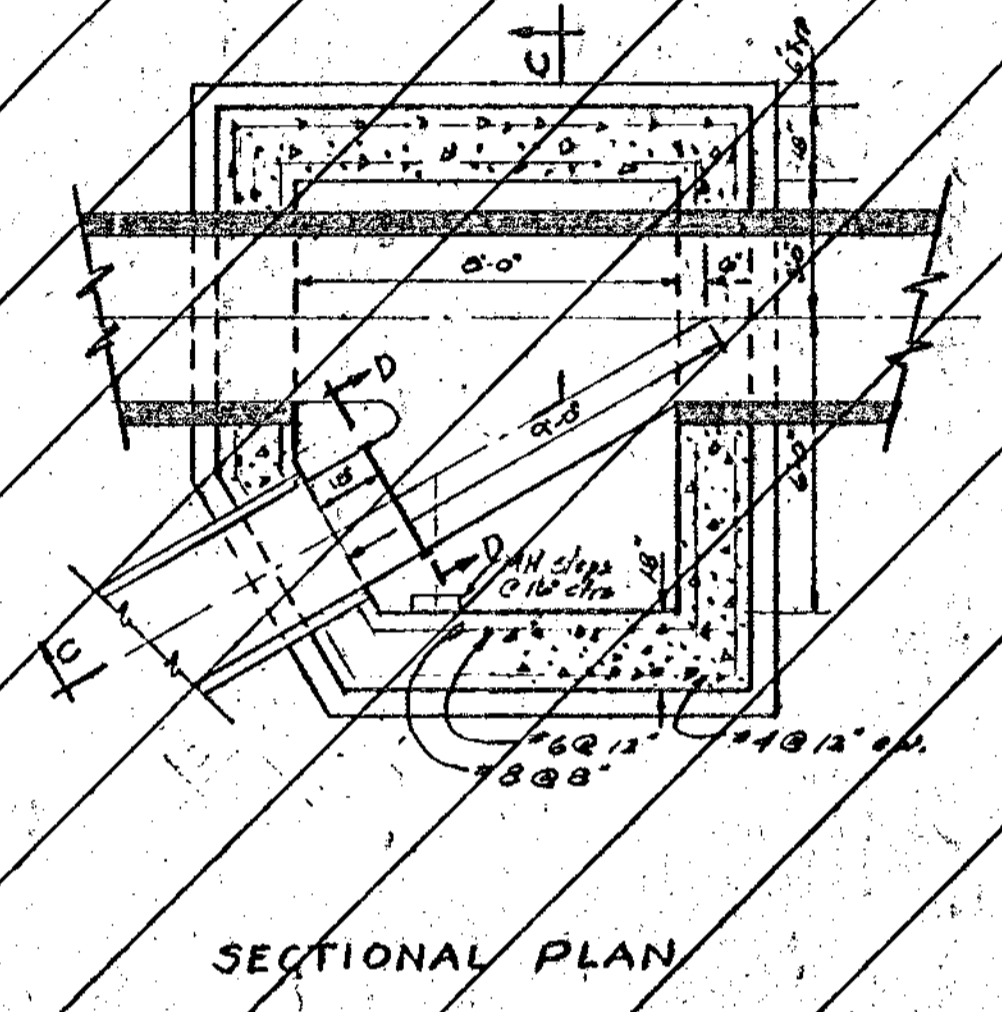
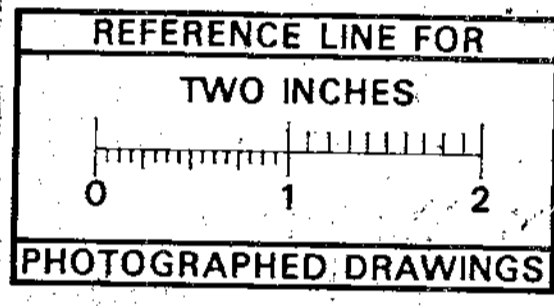
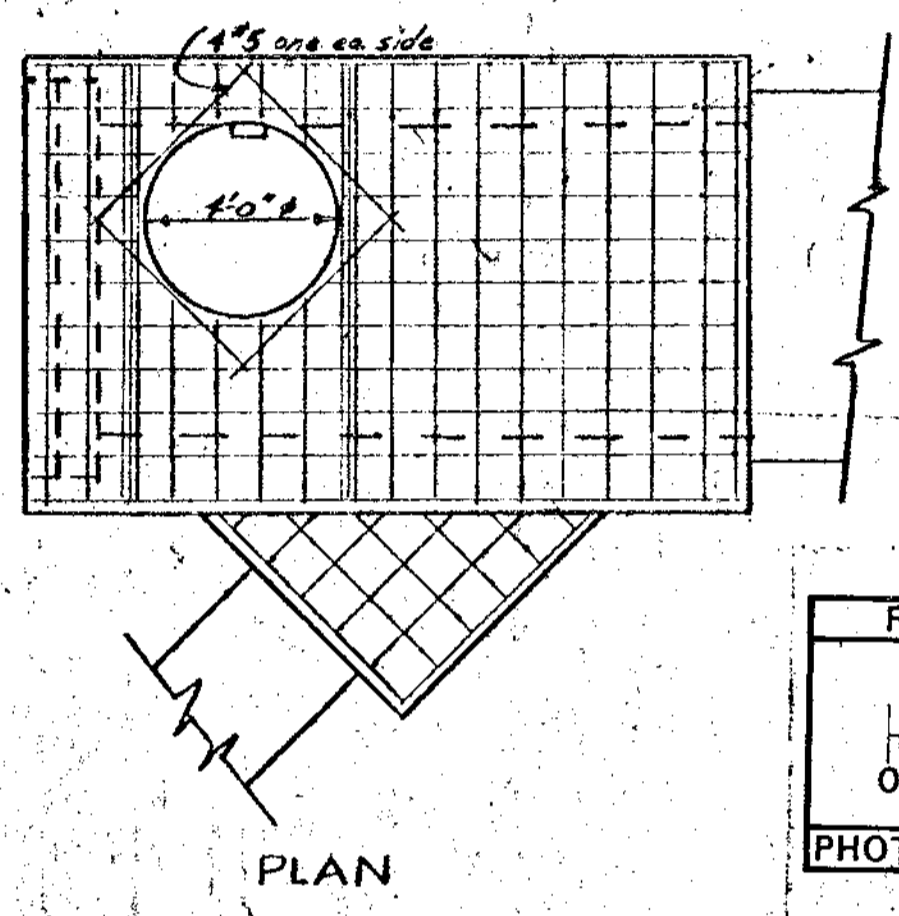
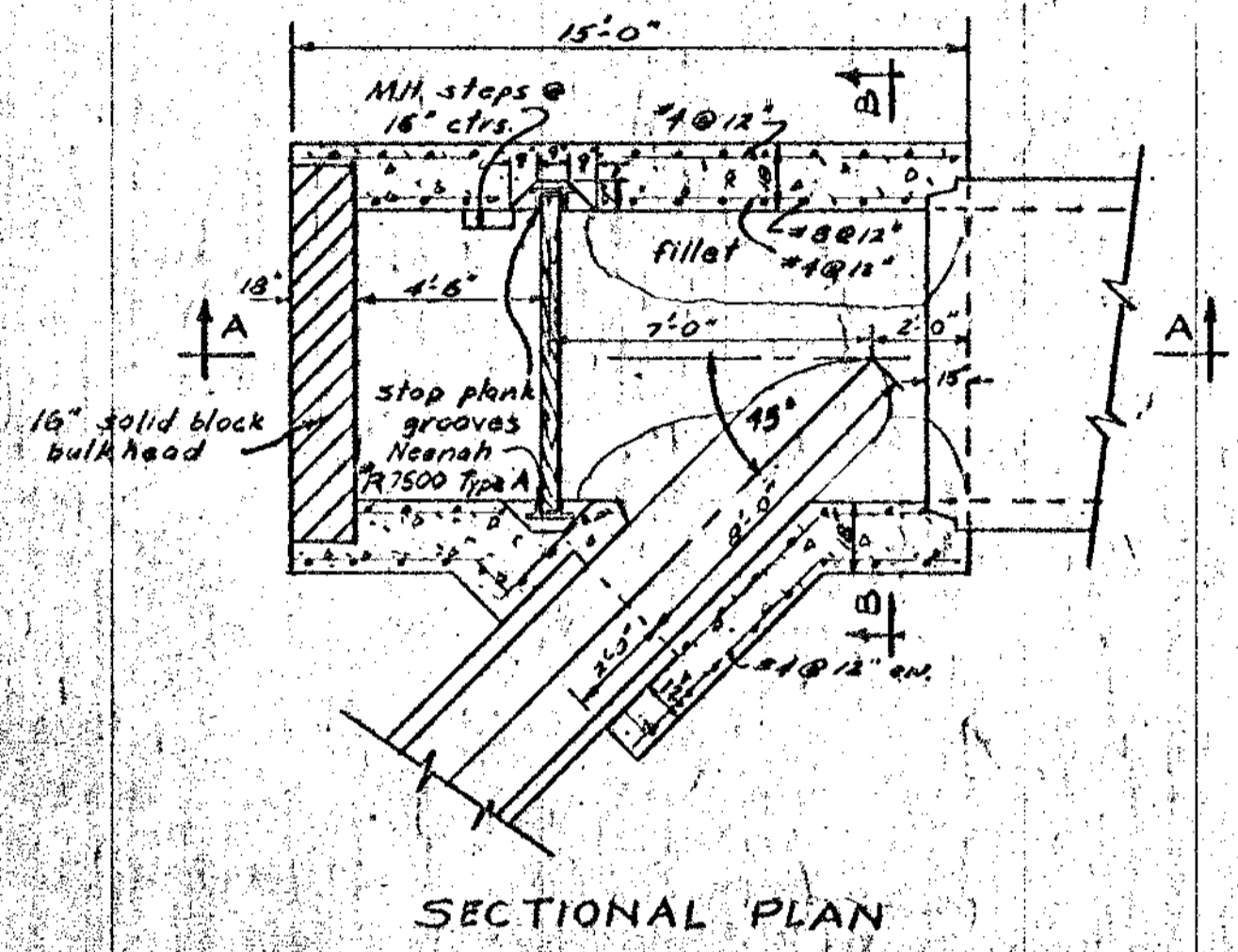
SANITARY SEWER
NORTHSIDE INTERCEPTOR
6-C-5138
SCALE: HORIZONTAL None VERTICAL None
FREDERICK A. MAMMEL
SUPERINTENDENT OF PUBLIC WORKS

WASHTENAW COUNTY, MICHIGAN BOARD OF PUBLIC WORKS
SANITARY SEWER SYSTEM NO. 1 (Northside Interceptor)
WPC-MICH 1611 Contract 70S-1 NORTHSIDE INTERCEPTOR SEWER

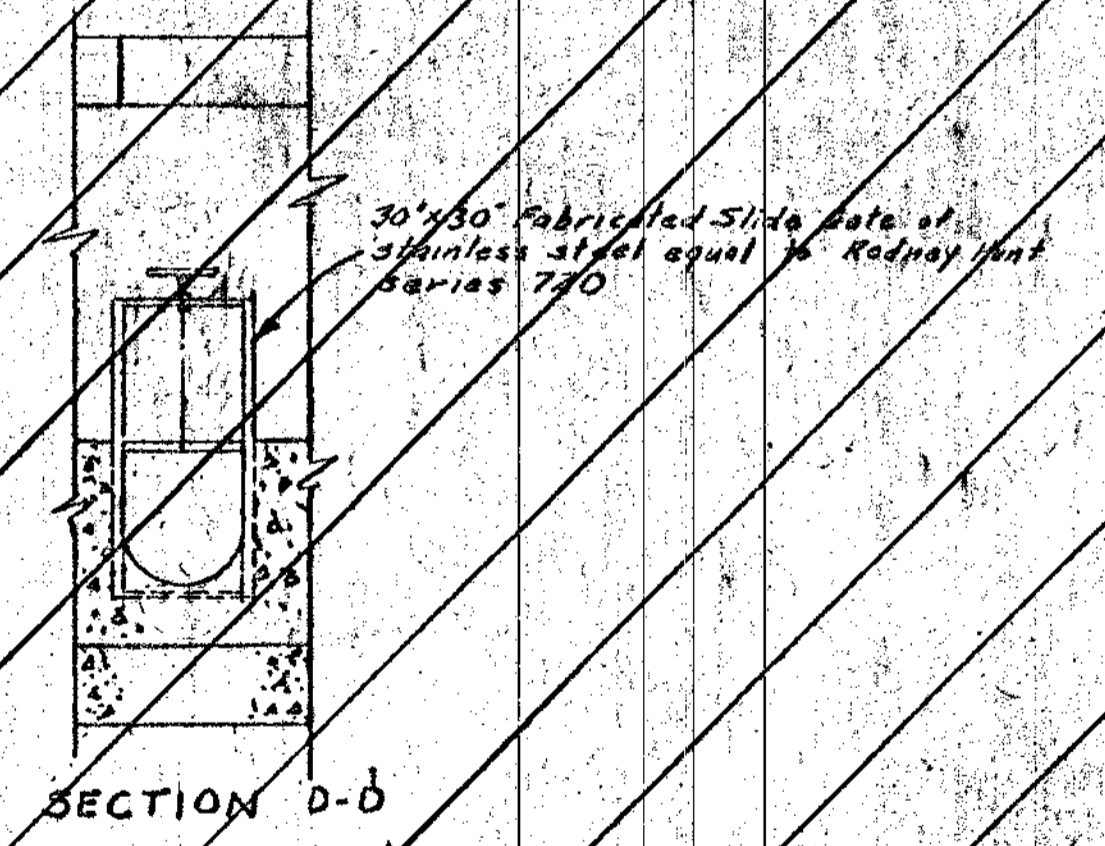
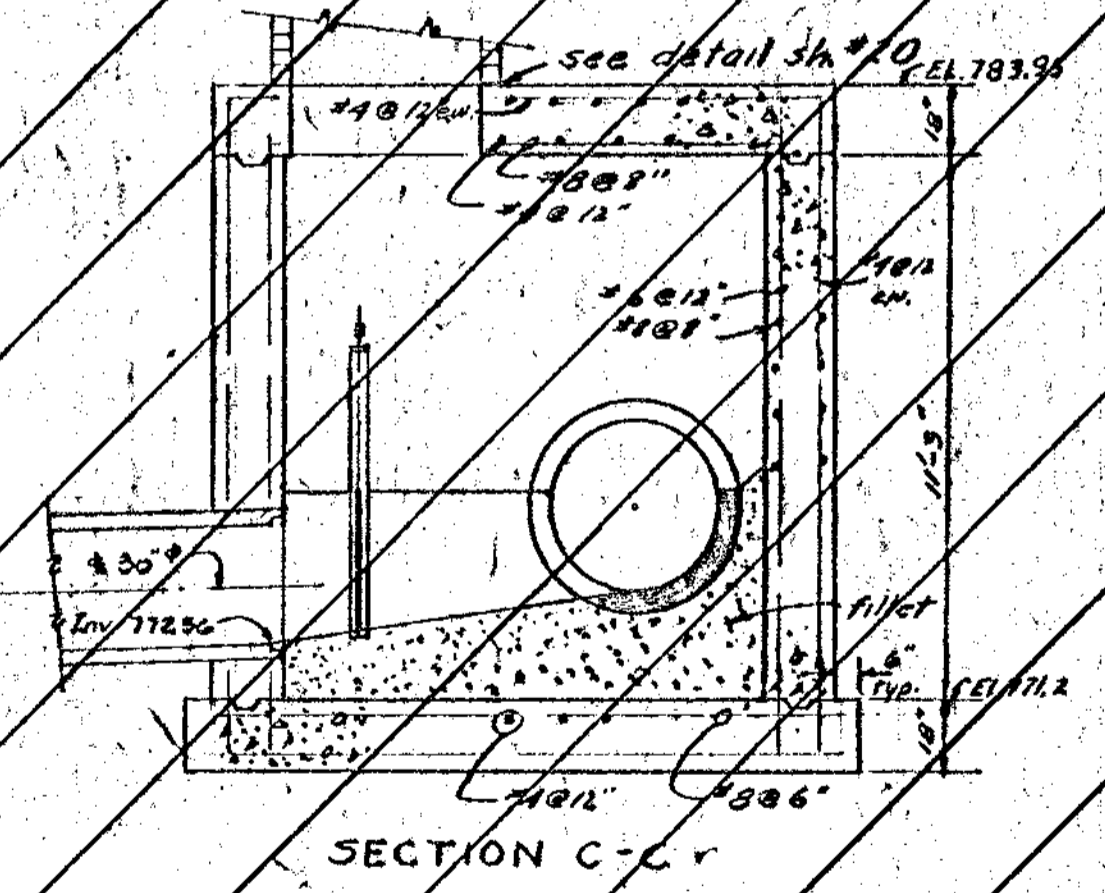
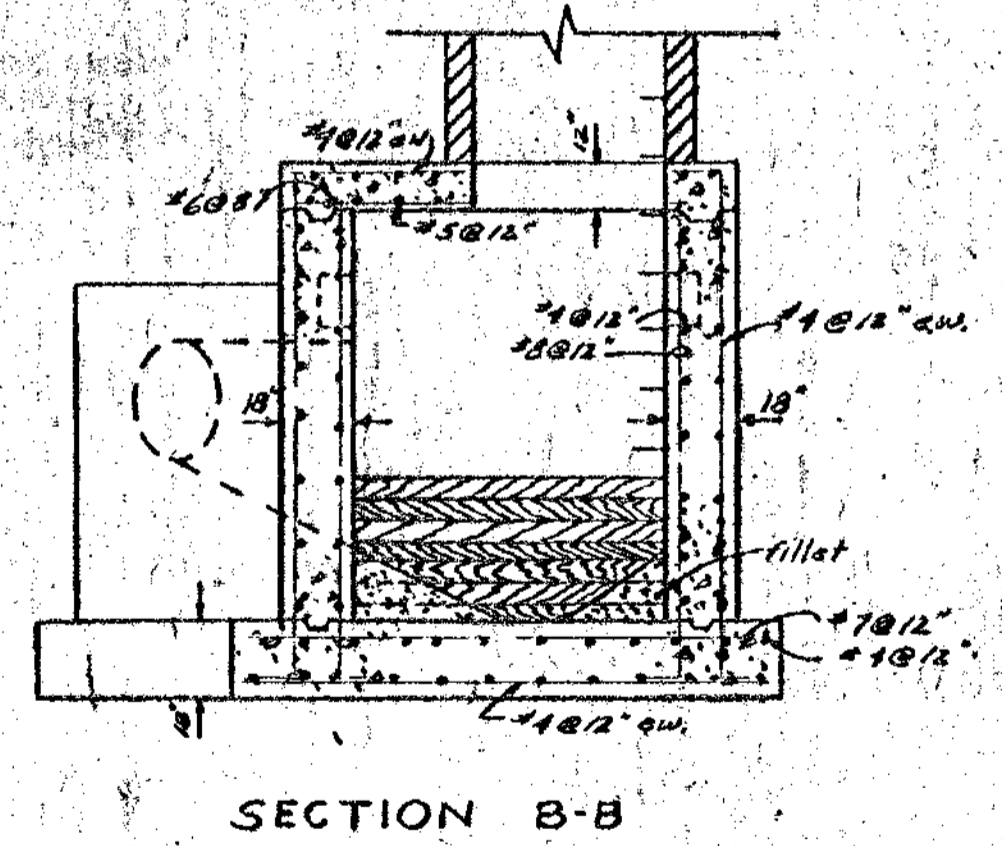
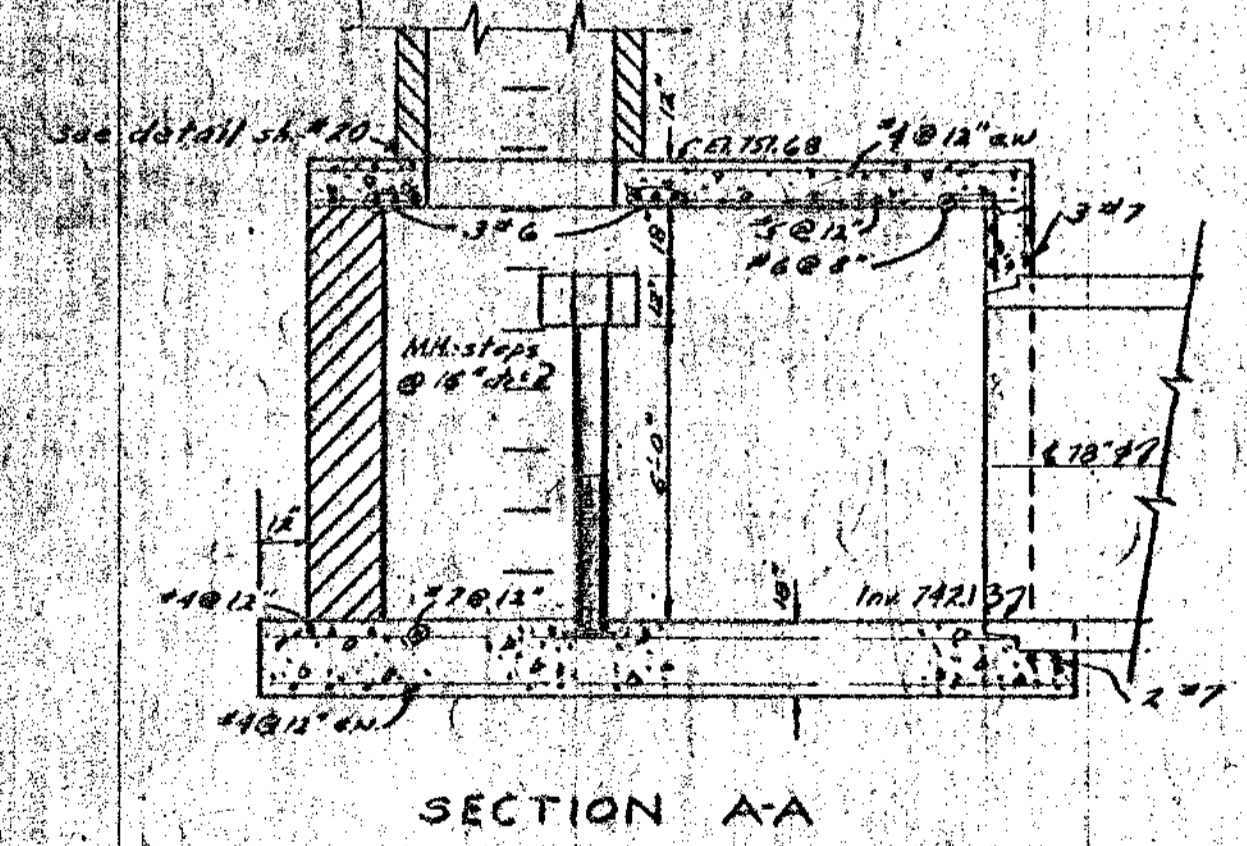
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN

McNAMEE, PORTER AND BEELEY
CONSULTING ENGINEERS
ANN ARBOR, MICHIGAN

CONFORMING TO CONSTRUCTION RECORDS



REVISED
SEE SHEET 3-4



JUNCTION CHAMBER #5

DIVERSION CHAMBER

DIGITAL STATUS
SCANNED ON 2/10
BY: ALG

OCT 1970	DATE	SHEET NO. 23
DR. BY A.N.B.	INDEX NO. 7745	
TR. BY J.R.C.	SHELF NO.	
CH. BY P.C.Y.		
REVISIONS		
6-C-5139		
SCALE: HORIZONTAL None		
VERTICAL None		

SANITARY SEWER
NORTHSIDE INTERCEPTOR
FREDRICK A. MAMMEL
SUPERINTENDENT OF PUBLIC WORKS
PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN

WASHTENAW COUNTY, MICHIGAN BOARD OF PUBLIC WORKS
SANITARY SEWER SYSTEM NO. 1 (Northside Interceptor)
WPC-MICH-1911 Contract 70-9-1 NORTHSIDE INTERCEPTOR SEWER

CONFORMING TO COLLAPSE RECORDS