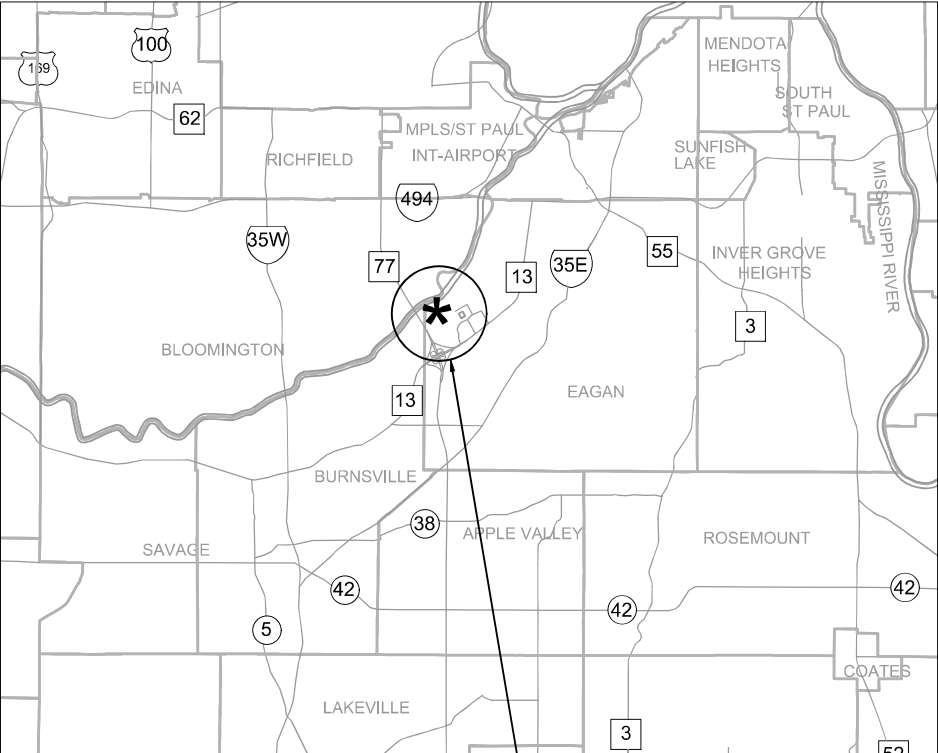


# **Appendix B**

## **Draft Construction Plans**

TEMPORARY CONVEYANCE PIPING  
SIPHON OUTLET IMPROVEMENTS  
MCES PROJECT 819026  
METROPOLITAN COUNCIL CONTRACT 18P187C



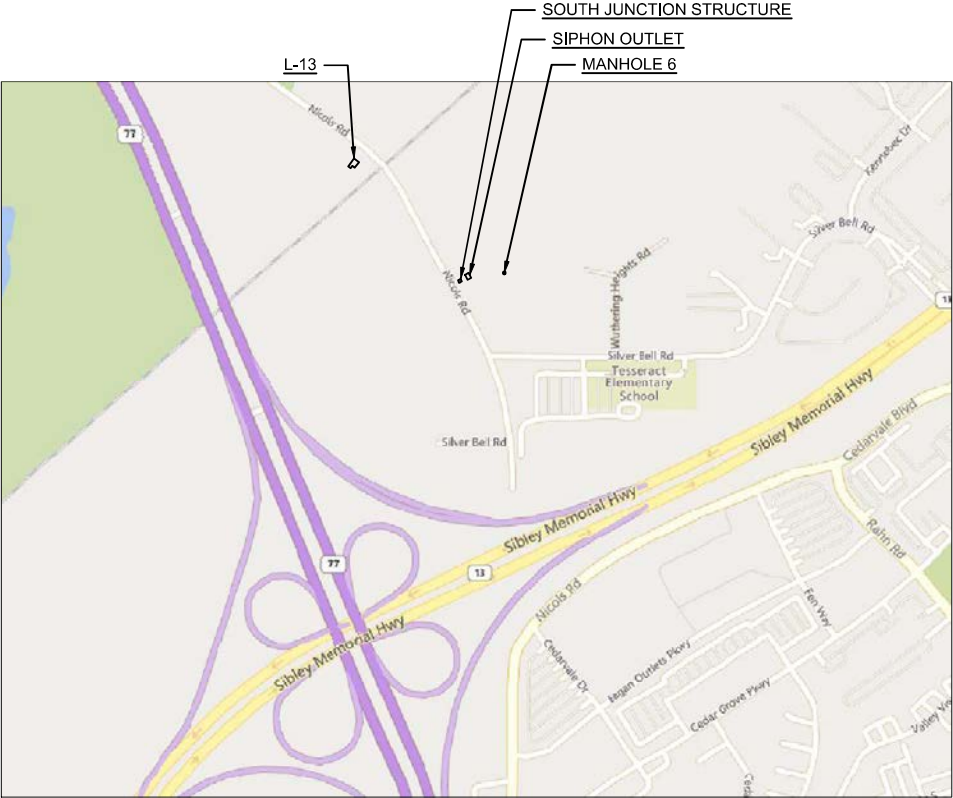
PROJECT LOCATION



VICINITY MAP  
NO SCALE

SHEET INDEX

DISCIPLINE	SHEET NUMBER	DRAWING NUMBER	SHEET TITLE DESCRIPTION
GENERAL	1	G1	TITLE SHEET
	2	G2	LEGEND
	3	G3	CIVIL LEGEND
CIVIL	4	C1	EXISTING CONDITIONS PLAN
	5	C2	REMOVAL PLAN
	6	C3	GRADING AND EROSION CONTROL PLAN
	7	C4	TRAFFIC CONTROL PLAN
	8	C5	TEMPORARY CONVEYANCE TO SIPHON OUTLET STRUCTURE
	9	C6	TEMPORARY CONVEYANCE TO MANHOLE 6
	10	C7	SOUTH JUNCTION STRUCTURE TEMPORARY CONVEYANCE PLAN
	11	C8	SOUTH JUNCTION STRUCTURE TEMPORARY CONVEYANCE SECTION
	12	C9	SOUTH JUNCTION STRUCTURE
	13	C10	RESTORATION PLAN
	14	C11	DETAILS
CIVIL REFERENCE	15	CR1	C10.1 SITE PLAN
	16	CR2	S4.1 SOUTH JUNCTION STRUCTURE
	17	CR3	S4.2 SOUTH JUNCTION STRUCTURE
	18	CR4	S4.3 SOUTH JUNCTION STRUCTURE TO MH6
	19	CR5	MH1 DETAIL
	20	CR6	C1 7033 INTERCEPTOR
	21	CR7	C3 7033 MH NO. 6
	22	CR8	MH NO. 6 ORIGINAL SHOP DRAWING



LOCATION MAP  
NO SCALE

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MODIFIED: 11/27/2023 11:25:00 AM

MM/DD/YY				ISSUED FOR BIDDING			
NO	DATE	BY	REMARKS	NO	DATE	BY	REMARKS
REVISIONS				REVISIONS			

DESIGNED	DLK
DRAWN	ENW
CHECKED	---
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	
SIGNATURE:	
TYPED OR PRINTED NAME:	DARYL L. KIRSCHENMAN
DATE:	---
REG NO.	24744

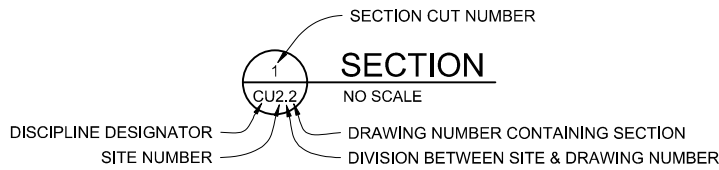
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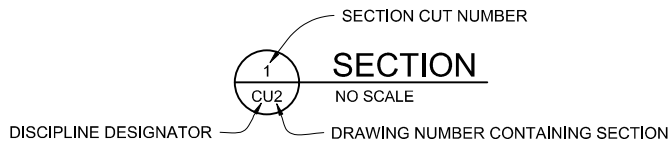
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FILE NAME	G001		

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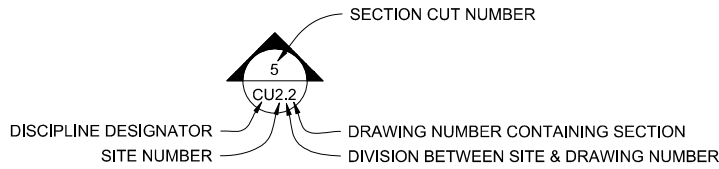


MULTIPLE SITE INTERCEPTOR PROJECTS

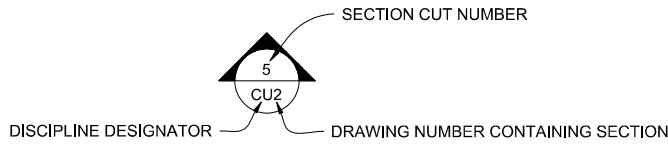


INTERCEPTOR PROJECTS

### SECTION TITLE

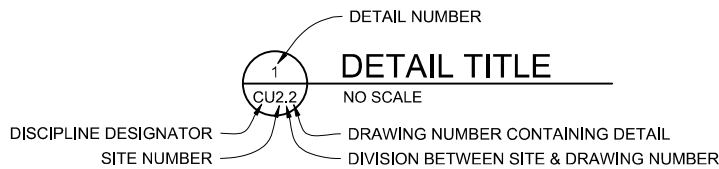


MULTIPLE SITE INTERCEPTOR PROJECTS

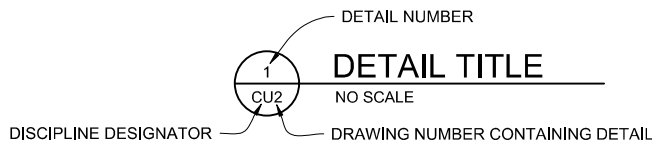


INTERCEPTOR PROJECTS

### SECTION "CUT" SYMBOL



MULTIPLE SITE INTERCEPTOR PROJECTS



INTERCEPTOR PROJECTS

### DETAIL TITLE

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	03/12/04	MCN	CONFORMED DRAWING				
	01/17/04	MCN	ADDENDUM NO 1				
	09/10/03	MCN	ISSUED FOR BIDDING		12/25/05	MCN	RECORD DRAWING
NO	DATE	BY	REMARKS	NO	DATE	BY	REMARKS
REVISIONS				REVISIONS			

### REVISION TITLE BLOCK

PROJECT	805632	METER STATION IMPROVEMENTS - PHASE 3	CU1
FILE NAME	CU0001		
		GENERAL UTILITY DETAILS 1	8 of 23

CU - DISCIPLINE DESIGNATOR  
0001 - FILENAME SEQUENCE NUMBER

### TITLE BLOCK FOR INTERCEPTOR PROJECTS

PROJECT	805632	METER STATION IMPROVEMENTS - PHASE 3	CS2.1
FILE NAME	CS020001		
		EXISTING CONDITIONS & EASEMENTS - M010A	8 of 23

CS - DISCIPLINE DESIGNATOR  
02 - SITE NUMBER  
0001 - FILENAME SEQUENCE NUMBER

### TITLE BLOCK FOR MULTIPLE SITE INTERCEPTOR PROJECTS



### KEYNOTE DESIGNATOR



### REVISION DESIGNATOR

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REVISIONS				REVISIONS					


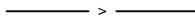

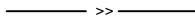



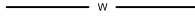



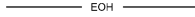



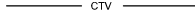



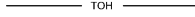

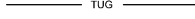

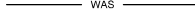

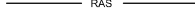

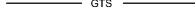
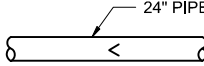
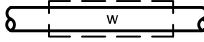

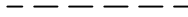



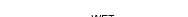

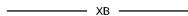





DESIGNED	DLK
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SIGNATURE:	
TYPED OR PRINTED NAME:	DARYL L. KIRSCHENMAN
DATE	---
REG NO	24744



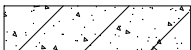
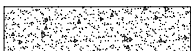

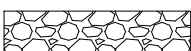




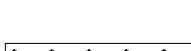
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PROJECT	819026	TEMPORARY CONVEYANCE PIPING SIPHON OUTLET IMPROVEMENTS LEGEND	G2
FILE NAME	G002		

EXISTING SYMBOL

STANDARD SYMBOLS		STANDARD SYMBOLS	
	BRIDGE		BENCHMARK
	RAILROAD		SOIL BORING INDICATOR
	BUILDING STRUCTURE		BUILDING STRUCTURE
	EXISTING ROADS		CURB & GUTTER
	TREES		TREES
	TREES		TREES
	BUSH LINE		BUSH LINE
	TREE STUMP		SIGN
	SIGN		BOLLARD
	POST		CONTOUR MAJOR
	CONTOUR MAJOR (5')		CONTOUR MINOR
	CONTOUR MINOR (1')		CONTOUR DEPRESSION
	CONTOUR DEPRESSION		SPOT ELEVATION
	SPOT ELEVATION		SANITARY MAINTENANCE HOLE
	SANITARY MAINTENANCE HOLE		STORM MAINTENANCE HOLE
	STORM MAINTENANCE HOLE		CATCH BASIN (PAVEMENT AREA)
	CATCH BASIN (PAVEMENT AREA)		CATCH BASIN (GRASSY AREA)
	CATCH BASIN (GRASSY AREA)		CATCH BASIN (CURB AREA)
	CATCH BASIN (CURB AREA)		CULVERT
	CULVERT		WATER GATE VALVE
	WATER GATE VALVE		WATER HYDRANT
	WATER HYDRANT		WATER MAINTENANCE HOLE
	WATER MAINTENANCE HOLE		GAS VALVE
	GAS VALVE		POWER POLE
	POWER POLE		GUY WIRE
	GUY WIRE		UTILITY POLE
	UTILITY POLE		CABLE TV PEDESTAL
	TELEPHONE PEDESTAL		REMOVAL OF EXISTING TREES
	ELECTRIC TRANSMISSION TOWER		

EXISTING UTILITIES LINE TYPES	PROPOSED UTILITIES LINE TYPES	LINE TYPE NAME & DESCRIPTION
		SAN (SANITARY SEWER)
		STRM (STORM SEWER)
		FM (FORCEMAIN)
		WATR (WATERMAIN)
		GAS (GAS)
		EOH (ELECTRICAL OVERHEAD)
		EUG (ELECTRICAL UNDERGROUND)
		CTV (CABLE TV)
		FOT (TELEPHONE FIBER OPTIC)
		TOH (TELEPHONE OVERHEAD)
		TUG (TELEPHONE UNDERGROUND)
		WAS (WASTE ACTIVATED SLUDGE)
		RAS (RETURN ACTIVATED SLUDGE)
		GTS (GRAVITY THICKENED SLUDGE)
		DOUBLE LINE - UTILITIES 18" & OVER (DRAWN TO OUTSIDE DIAMETER)
		ENCASED PIPE 18" & OVER (DRAWN TO OUTSIDE DIAMETER)
		JACKED/TUNNELED PIPE 18" & OVER (DRAWN TO OUTSIDE DIAMETER)
EXISTING UTILITIES LINE TYPES	PROPOSED UTILITIES LINE TYPES	LINE TYPE NAME & DESCRIPTION
		DASHED2 (PERMANENT EASEMENT)
		DASH4 (TEMPORARY EASEMENT)
		PHANTOM2 (ASSUMED RIGHT OF WAY)
		DASHED (CONSTRUCTION LIMITS & DISTURBANCE LIMITS)
		WET (WETLAND)
		SPRT (SPECIAL STRUCTURAL SUPPORT)
		XB (FENCE-BARBED)
		XC (FENCE-CHAIN LINK)
		XE (FENCE-ELECTRIC)
		XS (FENCE-SILTATION)
		XWD (FENCE-WOOD)
		PROPERTY LINE

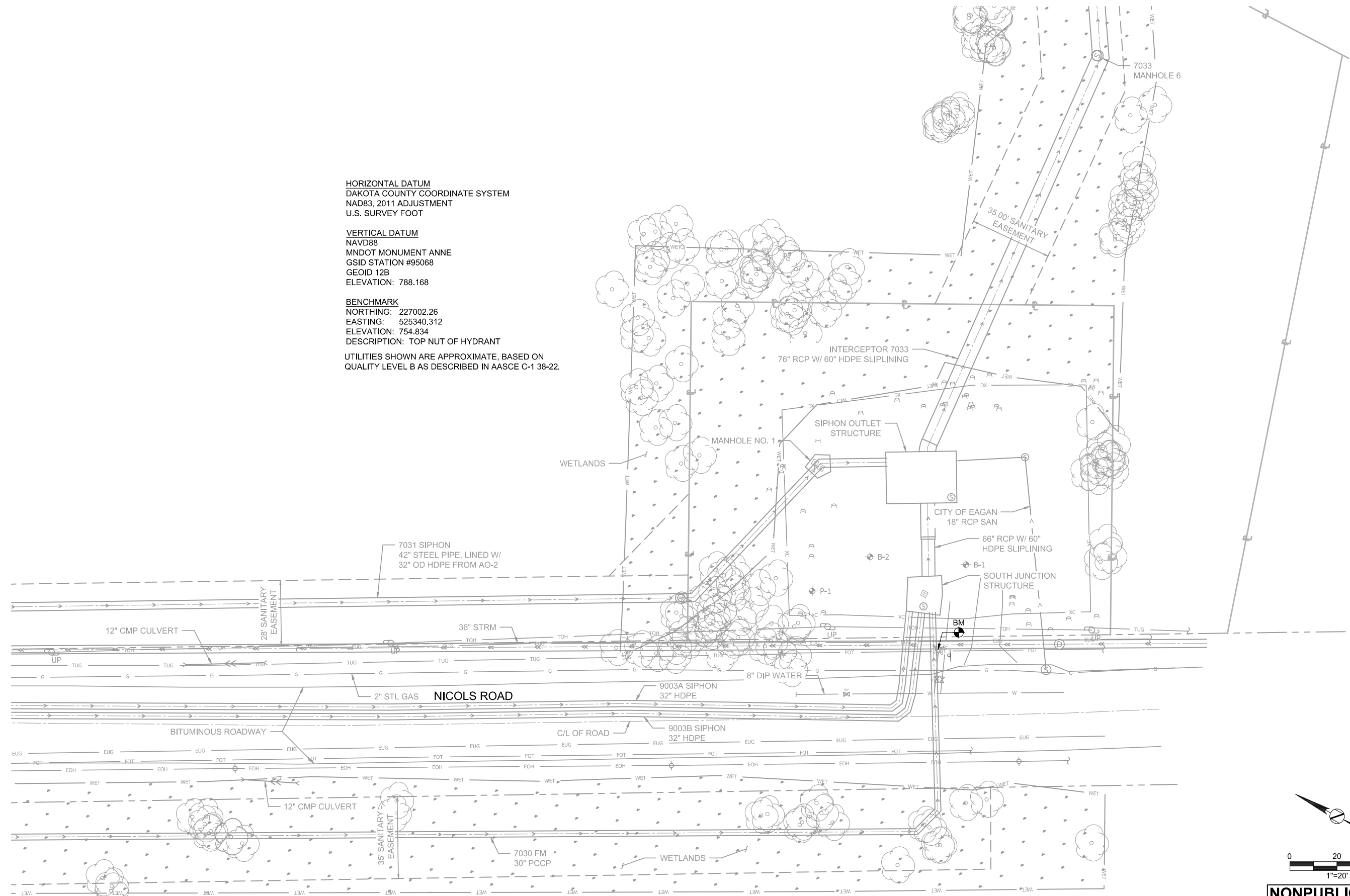
	BITUMINOUS PAVEMENT
	CONCRETE PAVEMENT
	CONCRETE GROUT
	AGGREGATE PAVEMENT
	GRADE
	AGGREGATE FILL
	COMPACTED FILL
	SAND
	REMOVAL
	OBJECT HATCH
	WETLAND

<u>GENERAL LINE TYPES</u>	<u>LINE TYPE NAME</u>	<u>COMMON USAGE</u>
	CENTER	BUILDING GRID LINE
	CENTER2	CENTER LINE
	HIDDEN2	FUTURE WORK
<u>MATCH LINE</u> 		MATCH LINE

--	--



\\US0291-PPFSS01\SHARED\_PROJECTS\7342009106\_DESIGN\8\_CADD\DWGS\SHEET\TEMPORARY CONVEYANCE PIPING\C001.DWG  
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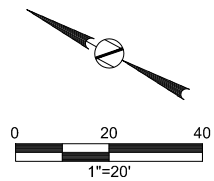


HORIZONTAL DATUM  
DAKOTA COUNTY COORDINATE SYSTEM  
NAD83, 2011 ADJUSTMENT  
U.S. SURVEY FOOT

VERTICAL DATUM  
NAVD88  
MNDOT MONUMENT ANNE  
GSID STATION #95068  
GEOID 12B  
ELEVATION: 788.168

BENCHMARK  
NORTHING: 227002.26  
EASTING: 525340.312  
ELEVATION: 754.834  
DESCRIPTION: TOP NUT OF HYDRANT

UTILITIES SHOWN ARE APPROXIMATE, BASED ON  
QUALITY LEVEL B AS DESCRIBED IN AASCE C-1 38-22.



NONPUBLIC DATA

MM/DD/YY				ISSUED FOR BIDDING			
NO	DATE	BY	REMARKS	NO	DATE	BY	REMARKS
REVISIONS				REVISIONS			

DESIGNED	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
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DRAWN	
ENW	
CHECKED	
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DATE	---
---	REG NO. 24744

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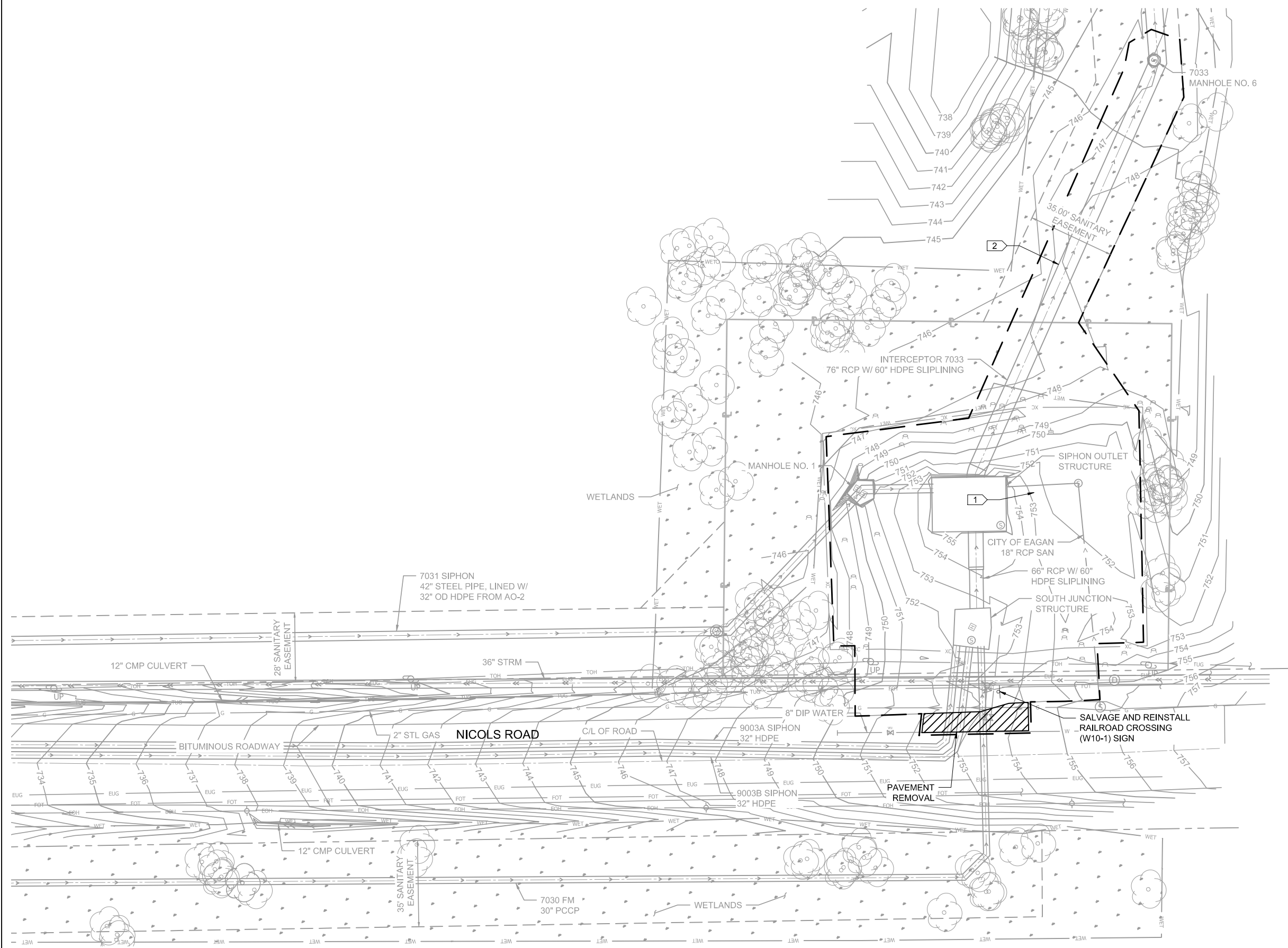
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Minneapolis, MN 55402  
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PROJECT 819026
FILE NAME C001

TEMPORARY CONVEYANCE PIPING  
SIPHON OUTLET IMPROVEMENTS  
EXISTING CONDITIONS PLAN

C1

\\US0291-PPFSS01\SHARED\_PROJECTS\7342009106\_DESIGN\8\_CADD\DWGS\SHEETS\TEMPORARY CONVEYANCE PIPING\C002.DWG  
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KEYNOTES: ☒ X

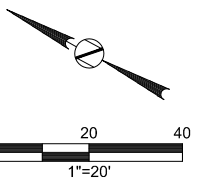
1. SUBCUT SITE TO ALLOW INSTALLATION OF TEMPORARY CONVEYANCE PIPING AS SHOWN ON C6.
2. AVOID DRIVING HEAVY EQUIPMENT ON TOP OF 60" INTERCEPTOR. SUPPORT VEHICLE CROSSING LOCATION WITH STEEL PLATES OR CONSTRUCTION MATS AS NECESSARY

GENERAL NOTES:

1. MAINTAIN ALL WORK WITHIN MCES PROPERTY AND EASEMENTS AND CITY RIGHT-OF-WAY.
2. REMOVE STUMPS IN THE WAY OF THE WORK. GRIND REMAINING X MARKED STUMPS SHOWN ON THIS SHEET BELOW THE GROUND SURFACE. IMMEDIATELY AFTER GRINDING APPLY GLYPHOSATE-BASED HERBICIDE TO REMAINING STUMP.
3. CLEAR AND GRUB SHRUBS WITHIN CHAIN LINK FENCED AREA.
4. SALVAGE AND REINSTALL EXISTING 6 FOOT HIGH CHAIN LINK FENCE AS REQUIRED TO PERFORM THE WORK.
5. SALVAGE AND REINSTALL CHAIN LINK DOUBLE SWING GATE ACROSS NEW ENTRANCE DRIVEWAY.
6. WARNING, CONCRETE FORMING SOUTH JUNCTION STRUCTURE IS EXPERIENCING MICROBIAL INDUCED CORROSION. NO VEHICULAR LOADING ON OR NEAR STRUCTURE. PROTECT STRUCTURE.
7. ALL SOIL DISTURBING ACTIVITIES REQUIRE TRIBAL MONITORING PER THE ARCHAEOLOGICAL MONITORING PLAN.

LEGEND:

-  TREE CUT DOWN BY OTHERS
-  LIMITS OF DISTURBANCE



NONPUBLIC DATA

MM/DD/YY				ISSUED FOR BIDDING			
NO	DATE	BY	REMARKS	NO	DATE	BY	REMARKS
REVISIONS				REVISIONS			

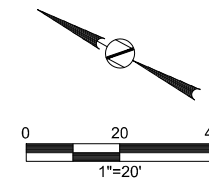
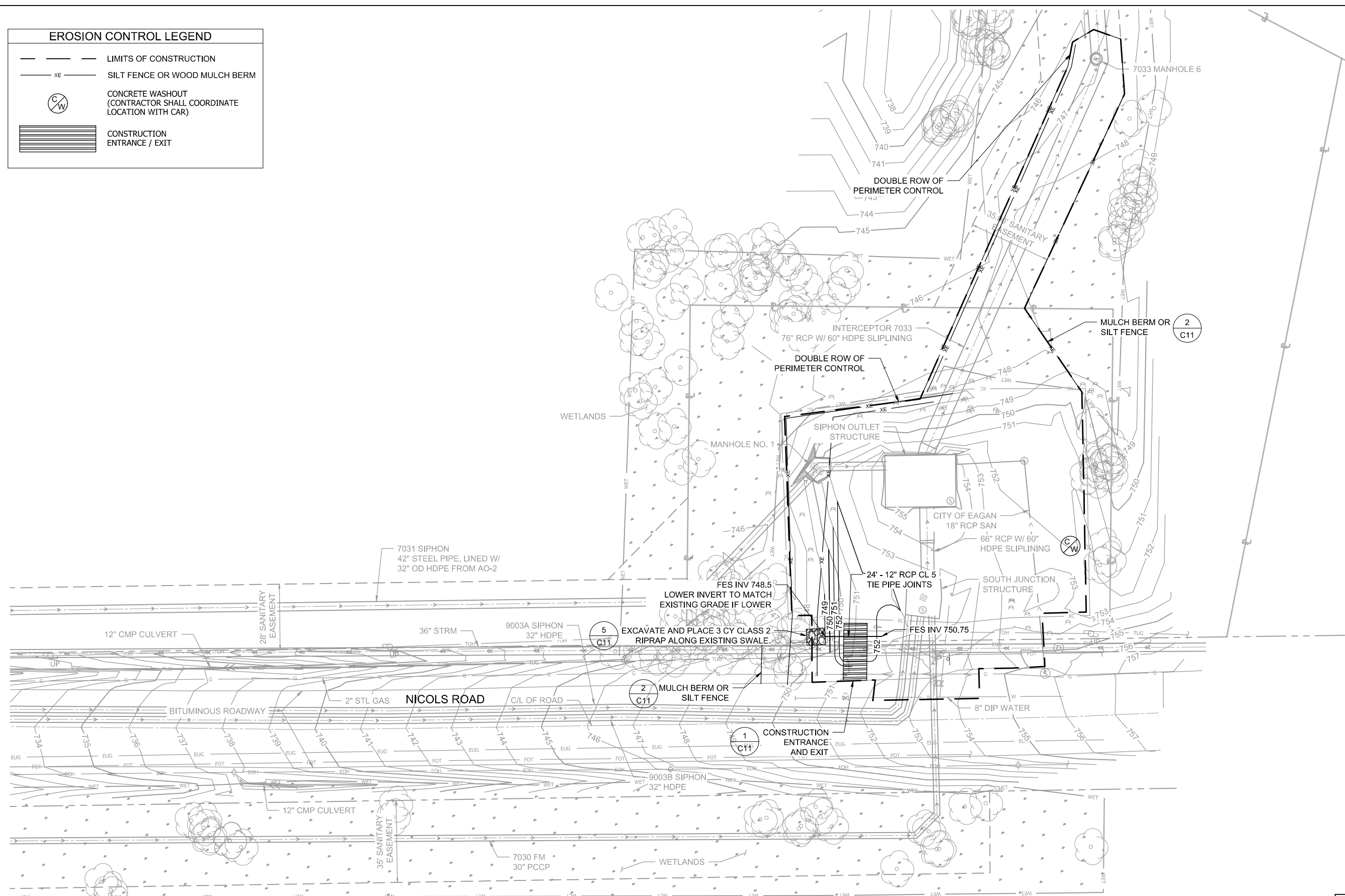
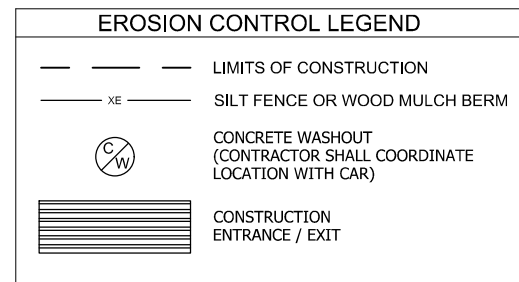
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DLK	
DRAWN	
ENW	
CHECKED	
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SIGNATURE: _____	
TYPED OR PRINTED NAME: DARYL L. KIRSCHENMAN	
DATE	REG NO 24744

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Minneapolis, MN 55402  
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PROJECT 819026	TEMPORARY CONVEYANCE PIPING SIPHON OUTLET IMPROVEMENTS REMOVAL PLAN	C2
FILE NAME C002		



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DLK	
DRAWN	
ENW	
CHECKED	
—	SIGNATURE: _____ TYPED OR PRINTED NAME: <u>DARYL L. KIRSCHENMAN</u> DATE: _____ REG NO. <u>24744</u>



PROJECT	819026
FILE NAME	C003

TEMPORARY CONVEYANCE PIPING  
SIPHON OUTLET IMPROVEMENTS  
**GRADING AND EROSION CONTROL PLAN**


C3




\\US0291-PPF5501\SHARED\_PROJECTS\173-20091\06\_DESIGN\8\_CADD\DWG\SHEETS\TEMPORARY CONVEYANCE PIPING\C004.DWG  
PLOT: 1/17/2023 6:08:34 PM  
MODIFIED: 1/17/2023 10:25:28 AM



SIGN LEGEND



W20-1  
(36X36)



G20-X1  
54X48

BLACK ON  
ORANGE

BLACK ON  
ORANGE

LEGEND



WORK AREA



TRAFFIC SIGN

GENERAL NOTES:

1. FURNISH, INSTALL AND MAINTAIN THE DEVICES IN THIS TRAFFIC CONTROL PLAN UNLESS OTHERWISE NOTED.
2. FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF THIS LAYOUT AS DEEMED NECESSARY BY THE CAR.
3. ALL DISTANCES ARE APPROXIMATE.
4. PROTECT WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH THE MN MUTCD.
5. PROVIDE A DETAILED TRAFFIC CONTROL PLAN TO THE CAR FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION. INCLUDE REQUIREMENTS FOR TRAFFIC CONTROL, SIGNAGE, TEMPORARY SURFACING, PAVEMENT MARKINGS AND BARRICADES AS PART OF THE PLAN.
6. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

SIGNING NOTES:

1. ALL TRAFFIC CONTROL DEVICES, INCLUDING OVERHEAD SIGNS ON ROADS OPEN TO TRAFFIC THAT ARE NOT CONSISTENT WITH TRAFFIC OPERATION SHALL BE COVERED, REMOVED OR REVISED AS DIRECTED BY THE CAR.
2. MOUNT SIGNS ON POSTS DRIVEN INTO THE GROUND AT THE PROPER HEIGHT AND LATERAL OFFSET AS DETAILED IN THE MN MUTCD. IF THIS IS NOT POSSIBLE, MOUNT ON PORTABLE SUPPORTS AS APPROVED BY THE CAR. WHEN THE SIGNS ARE REMOVED, REMOVE THE SIGN POSTS AS SOON AS POSSIBLE.
3. ALL SIGNS SHALL MEET MINIMUM RETRO-REFLECTVITY REQUIREMENTS AS OUTLINED IN THE MN MUTCD.

CONSTRUCTION PHASING NOTES:

1. STAGE THE PROJECT TO MINIMIZE DISRUPTION TO NICOLS ROAD TRAFFIC.
2. PROVIDE WRITTEN NOTICE TO THE CITY AT LEAST ONE WEEK PRIOR TO WORK IMPACTING NICOLS ROAD.
3. ADDRESS LONGITUDINAL DROP-OFFS PER THE GUIDELINES CONTAINED WITHIN THE MN TEMPORARY TRAFFIC CONTROL FIELD MANUAL. IN ALL INSTANCES WHERE DROP-OFFS ARE GREATER THAN 12-INCHES PLACE TEMPORARY BARRIERS ADJACENT TO TRAFFIC .
4. SHOULDER CLOSURE: MEET REQUIREMENTS OF MN TEMPORARY TRAFFIC CONTROL FIELD MANUAL, LAYOUT 8 - SHOULDER AND PARKING LANE CLOSURE - WORK ON OR NEAR SHOULDER.
5. LANE CLOSURE: MEET REQUIREMENTS OF MN TEMPORARY TRAFFIC CONTROL FIELD MANUAL, LAYOUT 14 - LANE CLOSURE WITH STOP SIGNS OR LAYOUT 15 - LANE CLOSURE, ONE FLAGGER.

NONPUBLIC DATA

	MM/DD/YY			ISSUED FOR BIDDING					
NO	DATE	BY		REMARKS	NO	DATE	BY		REMARKS
REVISIONS					REVISIONS				

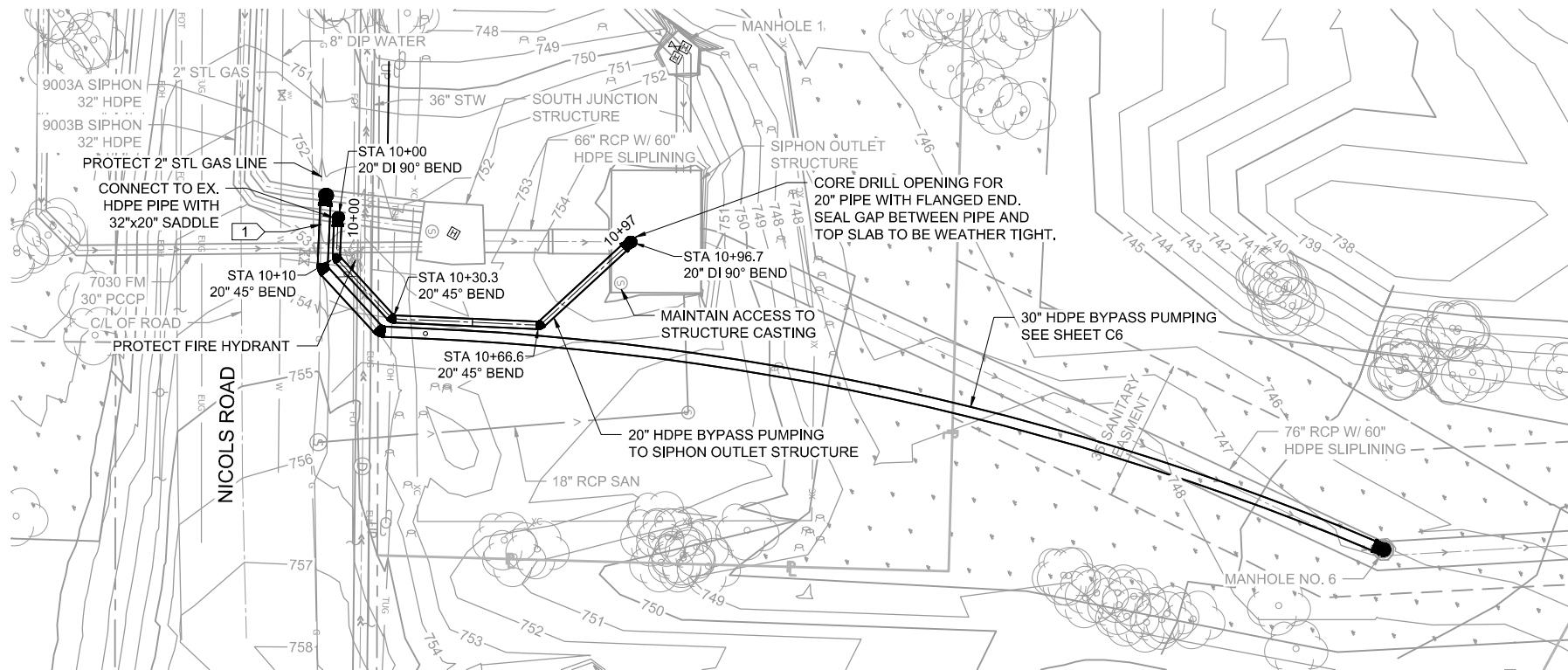
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TYPED OR PRINTED NAME: DARYL L. KIRSCHENMAN	
DATE	24744



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PROJECT	819026	TEMPORARY CONVEYANCE PIPING SIPHON OUTLET IMPROVEMENTS TRAFFIC CONTROL PLAN	C4
FILE NAME	C004		

\\US0291-PPFSS01\SHARED\_PROJECTS\7242009106\_DESIGN\8\_CADD\DWGS\TEMPORARY CONVEYANCE PIPING\C005.DWG  
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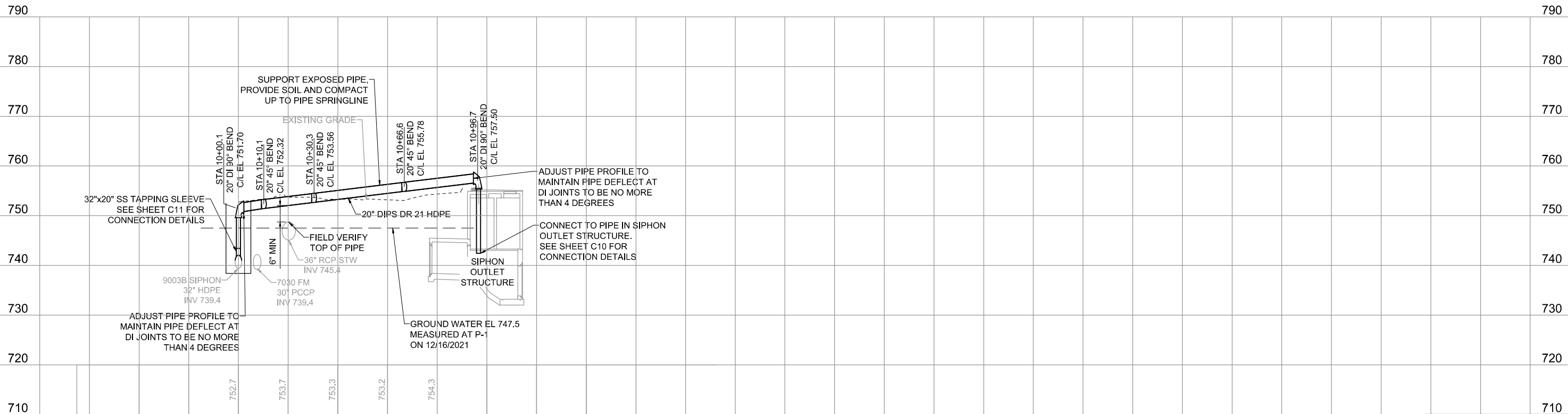
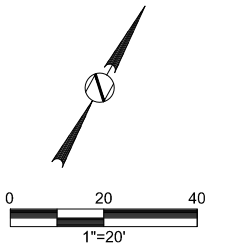


## KEYNOTES:

1. PRIOR TO EXCAVATION OF GAS LINE, SUBMIT AND OBTAIN APPROVAL OF GAS LINE EXCAVATION AND SUPPORT PLAN FROM THE MINNESOTA ENERGY RESOURCES.

## GENERAL NOTES:

1. 20" DIPS HDPE PIPE MAY BE SUBSTITUTED FOR 20" DIPS DR 21 PROVIDED NECESSARY ACCOMMODATIONS AT DI FITTINGS ARE MADE.
2. FITTINGS: FABRICATED HDPE OR DUCTILE IRON (DI) FITTINGS MAY BE USED EXCEPT WHERE DI FITTINGS ARE SPECIFICALLY CALLED OUT IN DRAWINGS.
3. SEE ENLARGED VIEW OF CONNECTION TO EXISTING 32" SIPHON AND LAYOUT NEAR SOUTH JUNCTION STRUCTURE ON SHEETS C7 AND C8.
4. DUCTILE IRON (DI) MAY BE SUBSTITUTED FOR HDPE PIPE.



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REVISIONS				REVISIONS			
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SIGNATURE:	
TYPED OR PRINTED NAME:	DARYL L. KIRSCHENMAN
DATE:	—
REG NO	24744



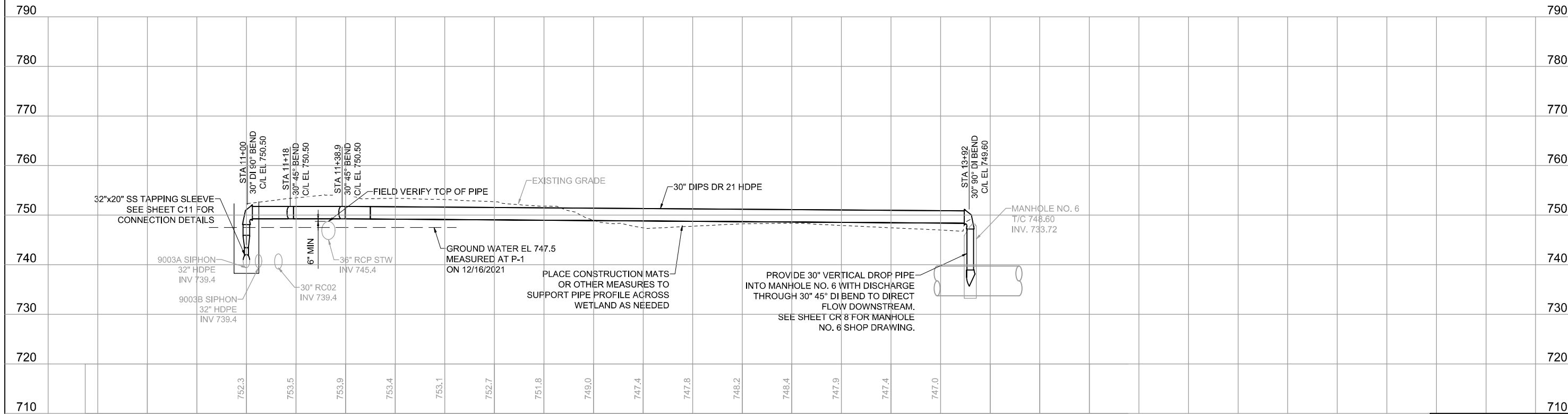
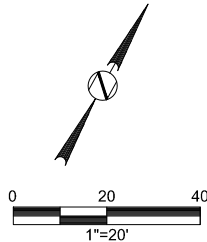
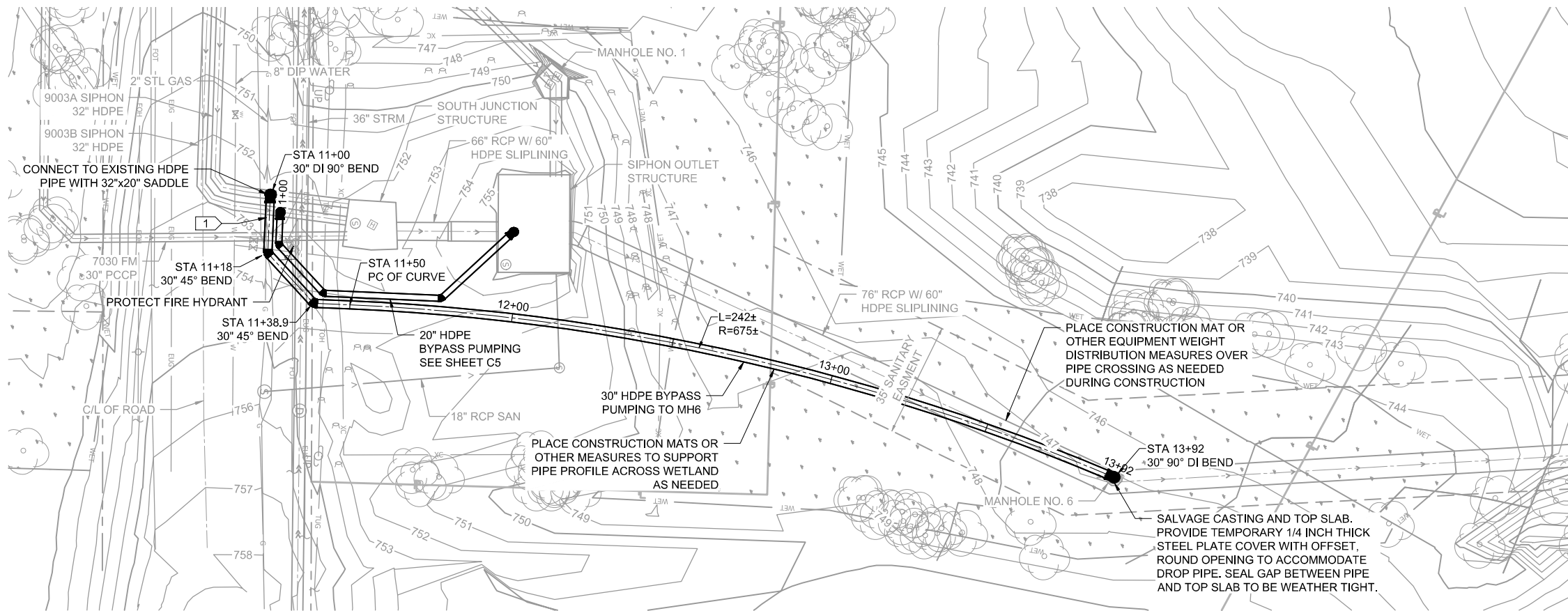
PROJECT	819026
FILE NAME	C005

TEMPORARY CONVEYANCE PIPING  
SIPHON OUTLET IMPROVEMENTS  
TEMPORARY CONVEYANCE TO SIPHON OUTLET STRUCTURE

C5



\\US0291-PPFSS01\SHARED\_PROJECTS\17424091\06\_DESIGN\8\_CADD\DWGS\TEMPORARY CONVEYANCE PIPING\C006.DWG  
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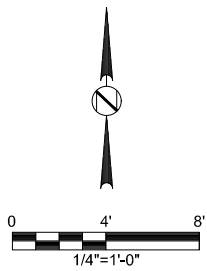
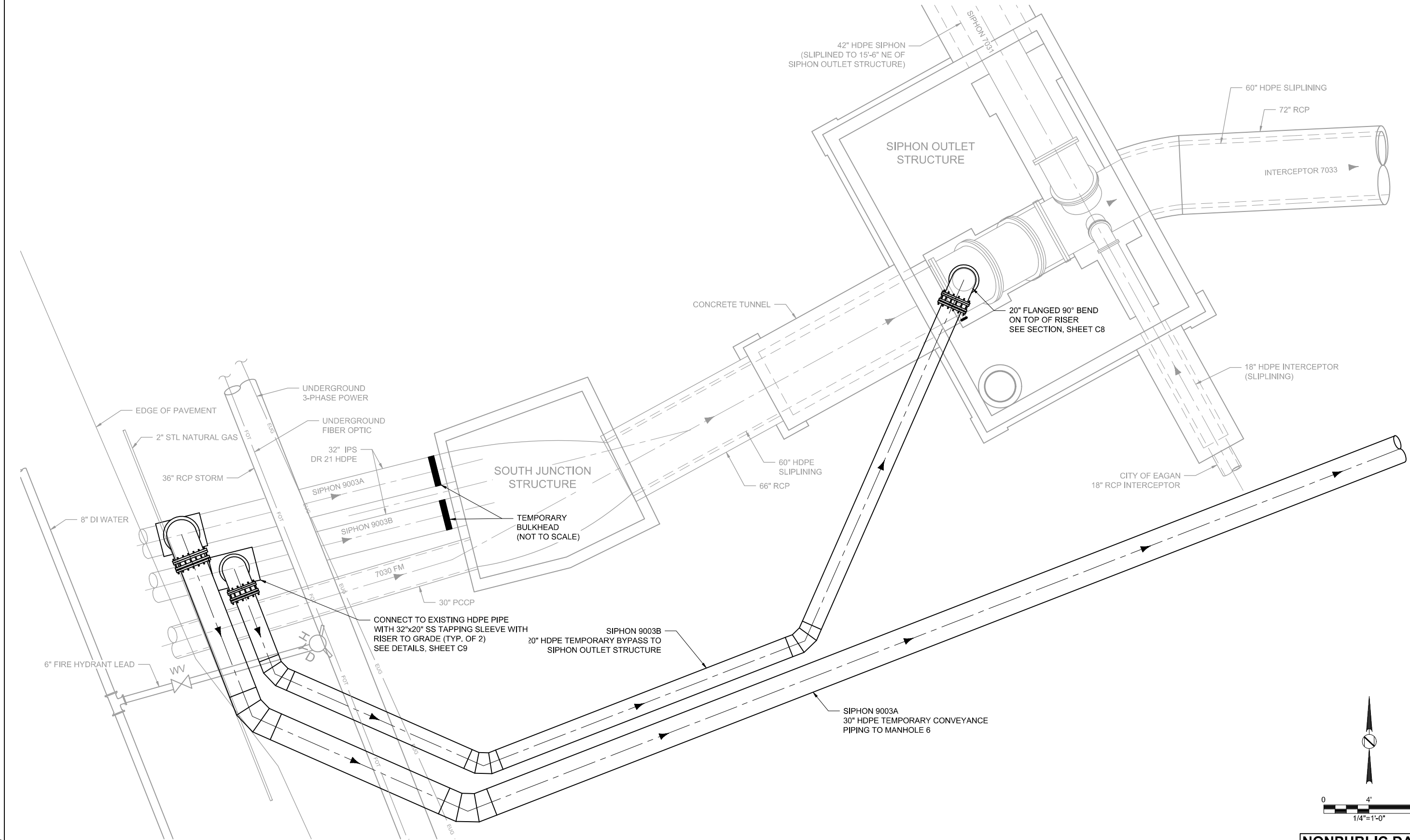
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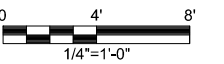
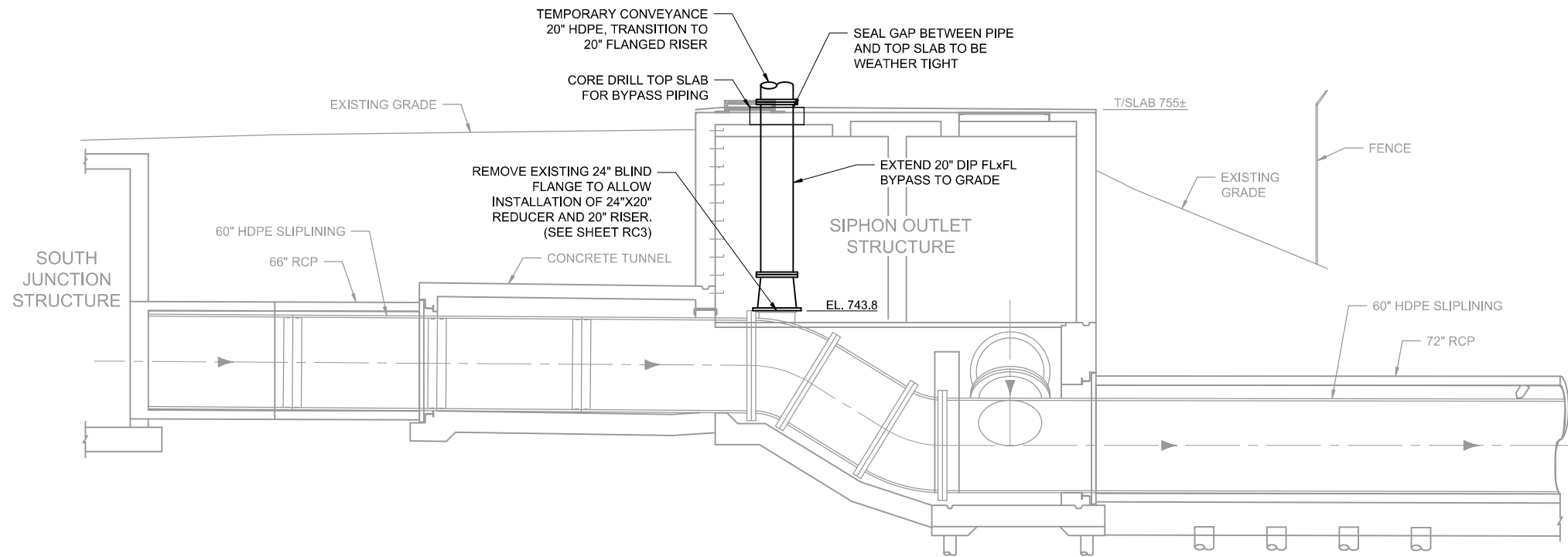
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PROJECT	819026	TEMPORARY CONVEYANCE PIPING SIPHON OUTLET IMPROVEMENTS SOUTH JUNCTION STRUCTURE TEMPORARY CONVEYANCE PLAN	C7
FILE NAME	C007		

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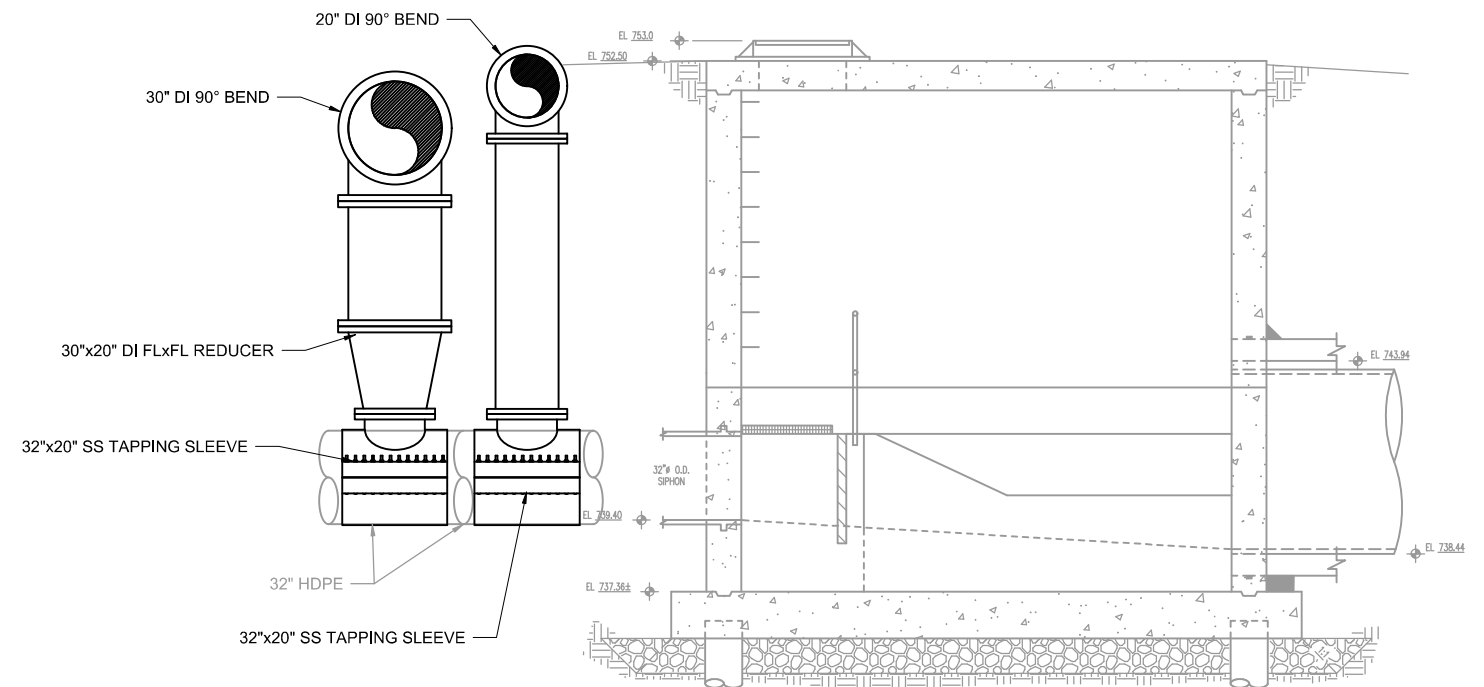
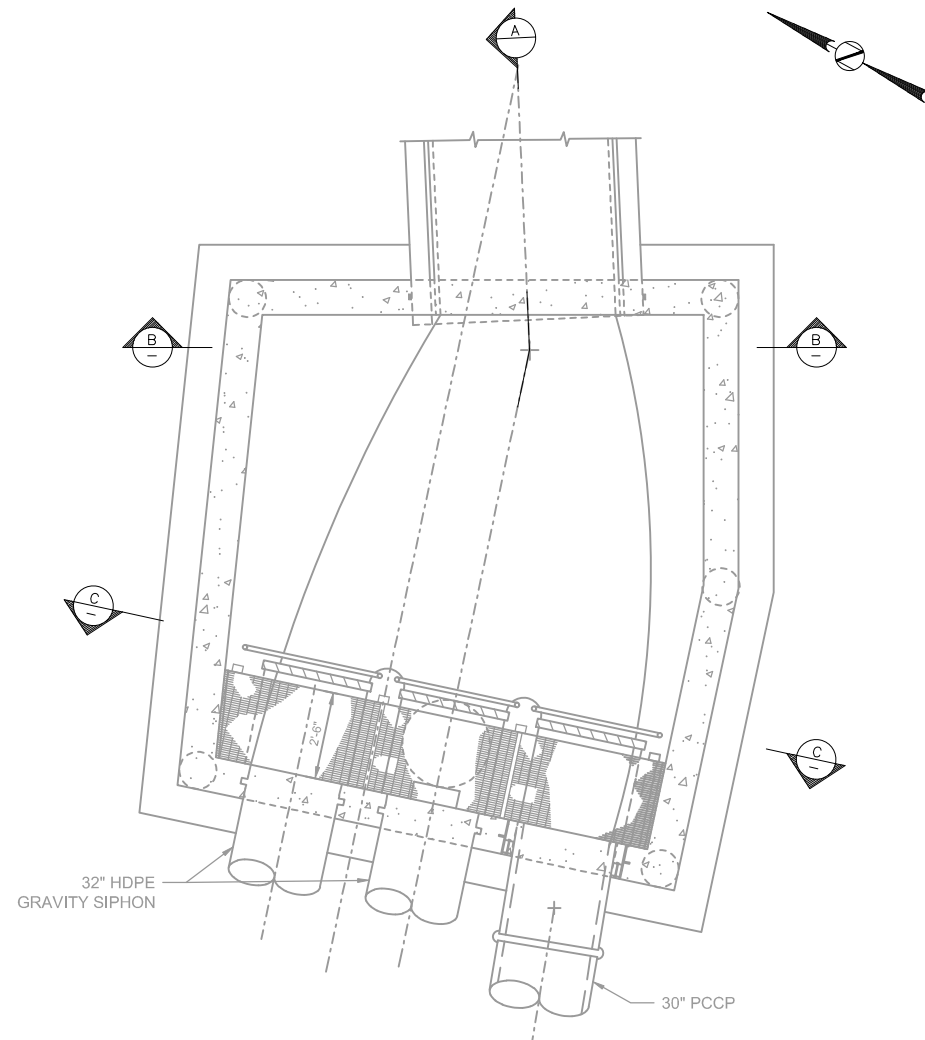
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PROJECT	819026
FILE NAME	C008
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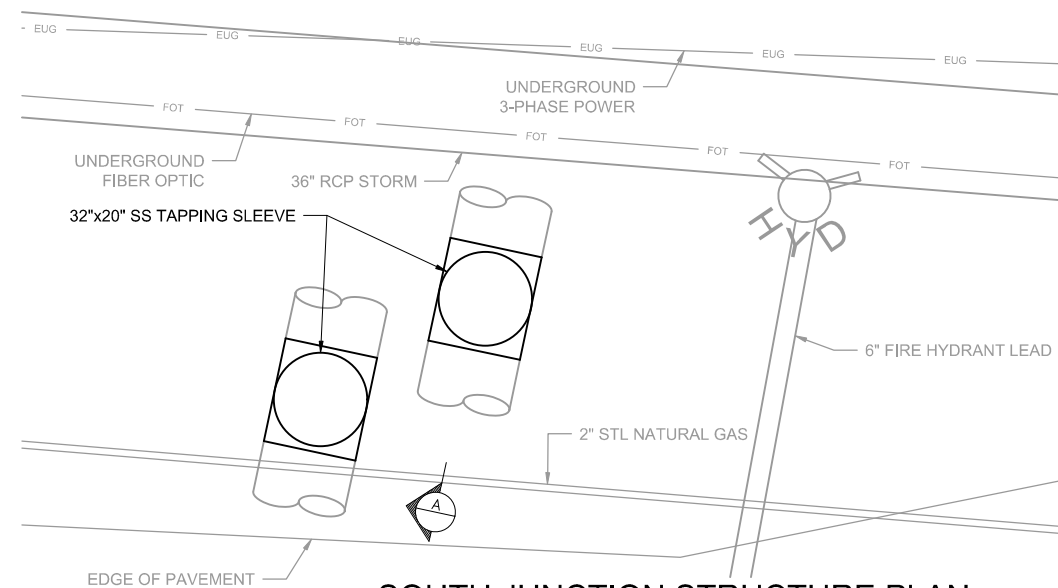
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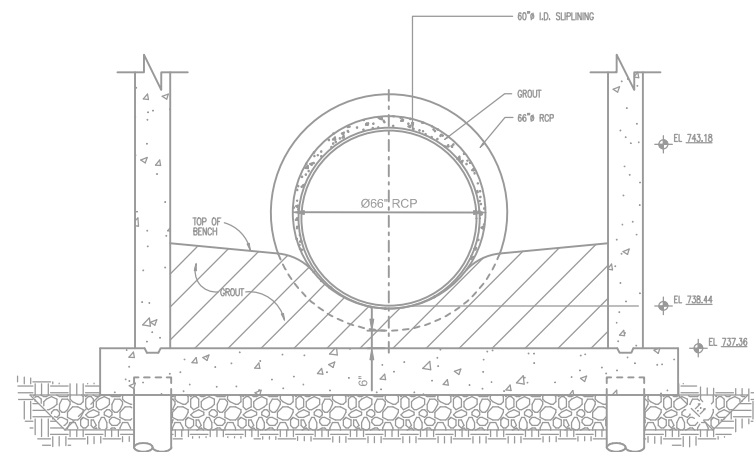
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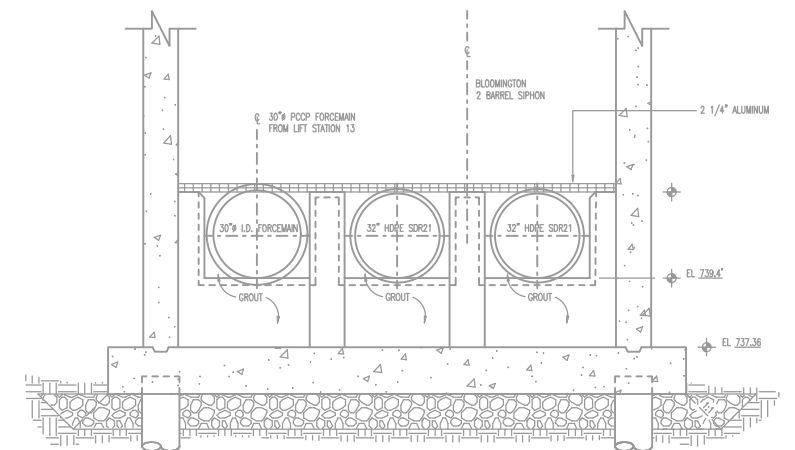
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**SOUTH JUNCTION STRUCTURE PLAN**  
3/8" = 1'-0"



**SECTION B-B**  
3/8" = 1'-0"



**SECTION C-C**  
3/8" = 1'-0"

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REVISIONS				REVISIONS					

PROJECT 819026	TEMPORARY CONVEYANCE PIPING SIPHON OUTLET IMPROVEMENTS SOUTH JUNCTION STRUCTURE	C9
FILE NAME C009		

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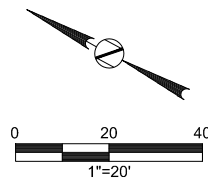
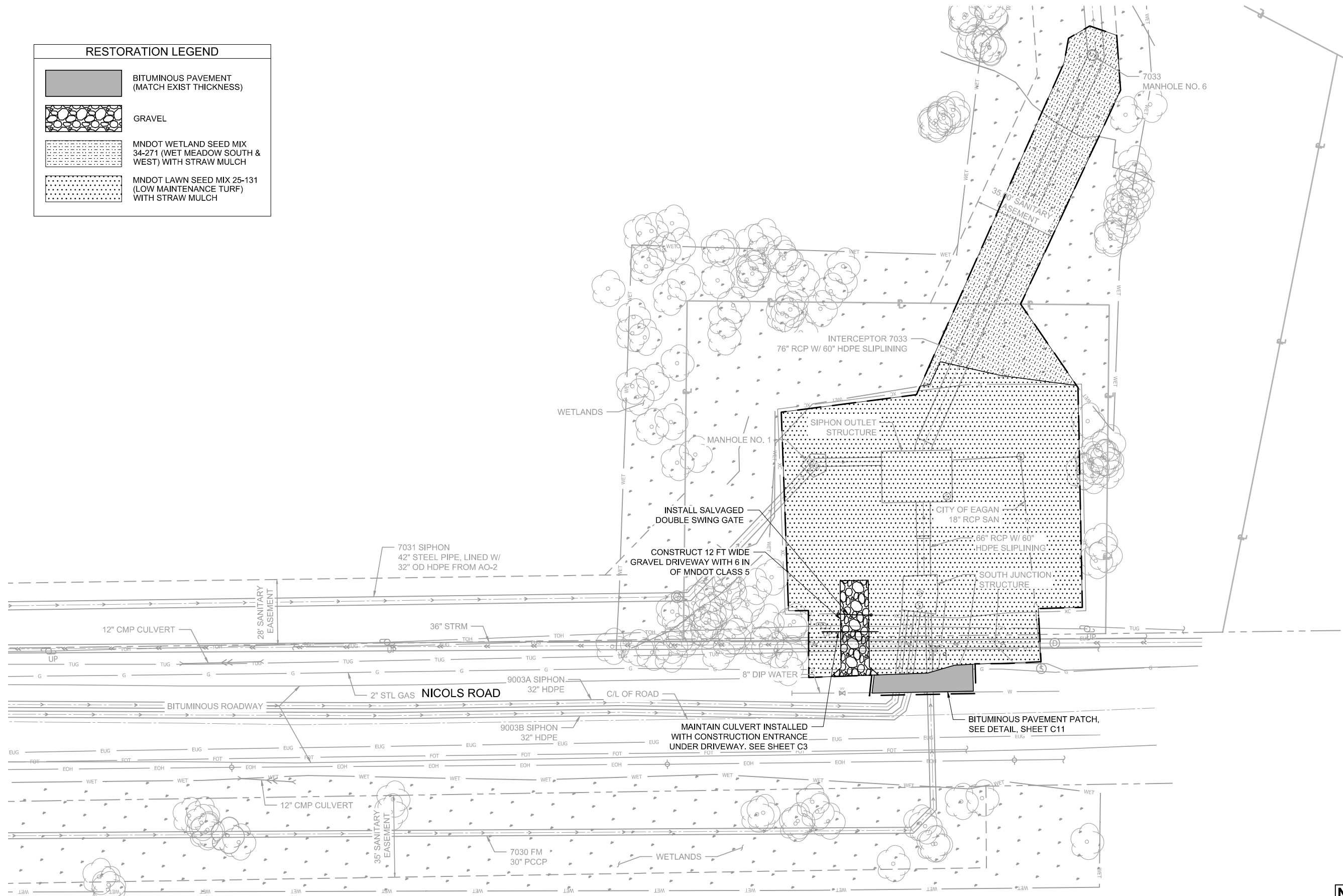
RESTORATION LEGEND

BITUMINOUS PAVEMENT  
(MATCH EXIST THICKNESS)

GRAVEL

MNDOT WETLAND SEED MIX  
34-271 (WET MEADOW SOUTH &  
WEST) WITH STRAW MULCH

MNDOT LAWN SEED MIX 25-131  
(LOW MAINTENANCE TURF)  
WITH STRAW MULCH



NONPUBLIC DATA

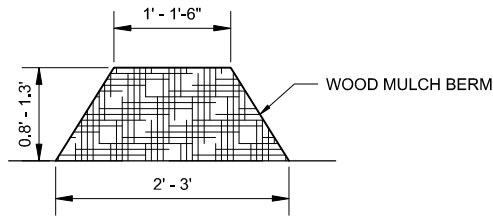
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NO	DATE	BY	REMARKS	NO	DATE	BY	REMARKS
REVISIONS				REVISIONS			

DESIGNED	DLK
DRAWN	ENW
CHECKED	---
SIGNATURE: _____	
TYPED OR PRINTED NAME: DARYL L. KIRSCHENMAN	
DATE: _____	REG NO: 24744

**Stantec**

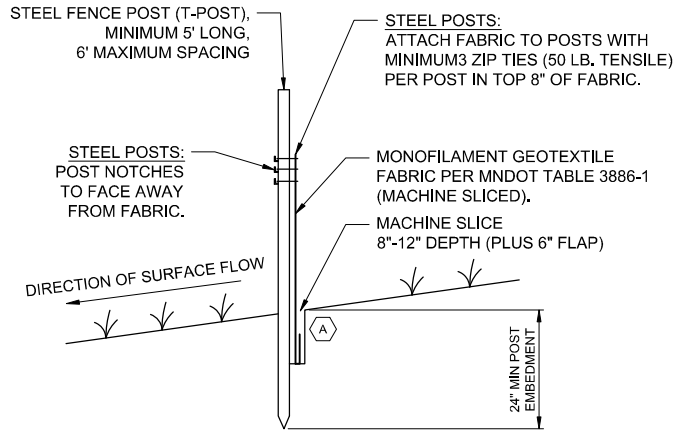
733 Marquette Avenue, Suite 1000  
Minneapolis, MN 55402  
www.stantec.com

PROJECT	819026	TEMPORARY CONVEYANCE PIPING SIPHON OUTLET IMPROVEMENTS RESTORATION PLAN	C10
FILE NAME	C0010		



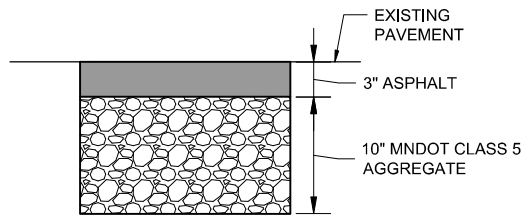
3  
C3  
**WOOD MULCH BERM**  
NO SCALE

- NOTES:
- MATERIAL USED SHALL MEET WOOD MULCH MATERIAL REQUIREMENTS IN SPECIFICATION SECTION 01563.
  - WHERE A DOUBLE ROW IS CALLED FOR IN THE DRAWINGS, ADDING 1.0 FT OF WIDTH TO THE TYPICAL HORIZONTAL DIMENSIONS MAY BE DONE IN PLACE OF A SECOND BERM.

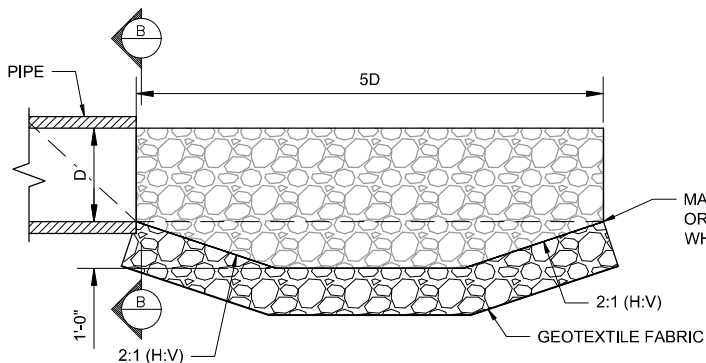


Ⓐ COMPACTION:  
AFTER "SLICING" IN THE FABRIC AND *BEFORE* INSTALLATION OF STEEL POSTS, DRIVE INSTALLATION EQUIPMENT OVER THE "SLICE" WHILE FABRIC IS LAYING ON THE GROUND. *THEN* INSTALL THE POSTS AND PULL UP FABRIC TO ATTACH AT A UNIFORM HEIGHT.

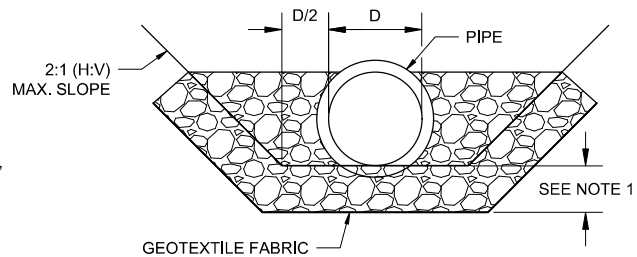
2  
C3  
**SILT FENCE**  
NO SCALE



4  
C10  
**BITUMINOUS PAVEMENT PATCH**  
NO SCALE

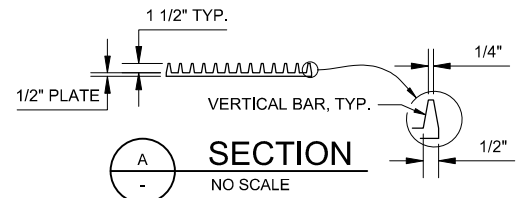


5  
C3  
**RIPRAP ENERGY DISSIPATION PROFILE**  
NO SCALE

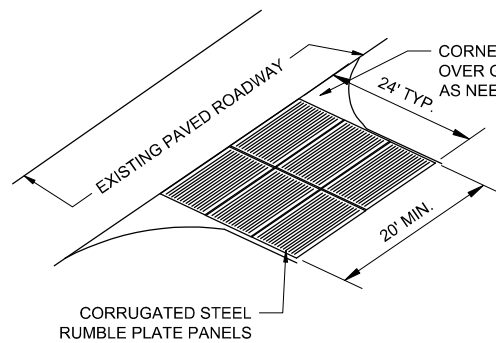


B  
C3  
**RIPRAP ENERGY DISSIPATION SECTION**  
NO SCALE

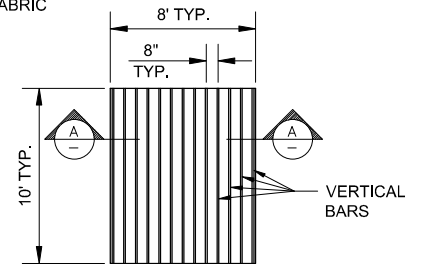
- NOTES:
- RIPRAP MINIMUM THICKNESS EQUAL TO MAXIMUM STONE SIZE (D100)



A  
-  
**SECTION**  
NO SCALE



**TEMPORARY CONSTRUCTION ENTRANCE**



**TYPICAL RUMBLE PLATE PANEL**

1  
C3  
**RUMBLE PLATE COSTRUCTION ENTRANCE**  
NO SCALE

- NOTES:
- ADJUST NUMBER OF PLATES AS NEEDED BASED ON TRAFFIC AND TRACKED DEBRIS GENERATION VOLUME.
  - CONSTRUCT CORNER RADII AT EXISTING ROADWAY IF VEHICLES CAN'T STAY ON PAVEMENT AND PANELS.
  - PLACE PANELS ON FIRM OR IMPROVED SOIL, ROCK OR EXISTING PAVEMENT.
  - GRADE AREA TO DRAIN AWAY FROM ENTRANCE AS FEASIBLE.
  - FREQUENTLY SWEEP PANELS CLEAR OF DEBRIS AS NEEDED TO MAINTAIN TRAPPING EFFECTIVENESS.

NONPUBLIC DATA

NO	DATE	BY	REVISIONS	NO	DATE	BY	REVISIONS
			ISSUED FOR BIDDING				

DESIGNED	DLK
DRAWN	ENW
CHECKED	---
TYPED OR PRINTED NAME:	DARYL L. KIRSCHENMAN
DATE	---
REG NO	24744

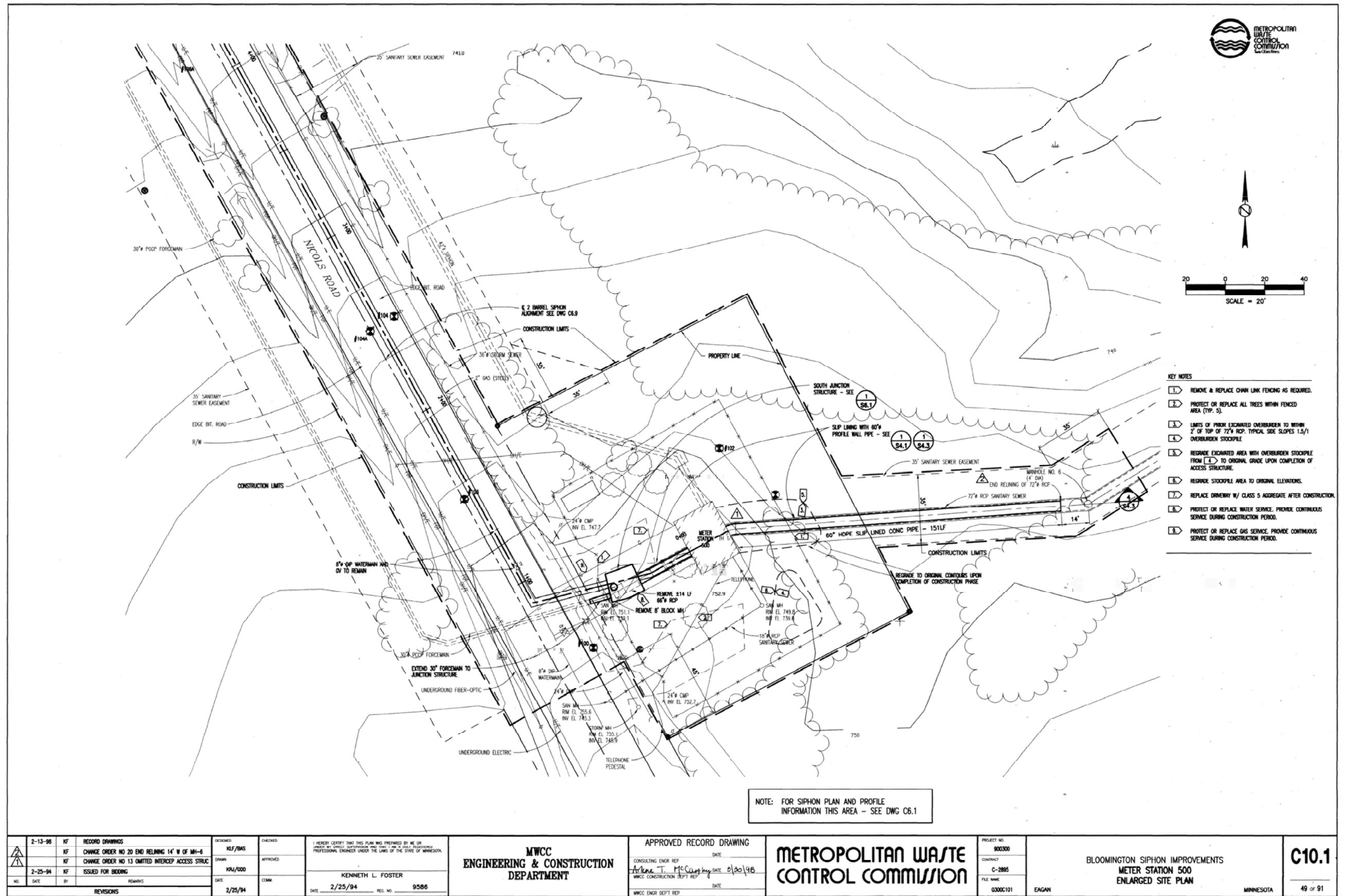
**Stantec**  
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Minneapolis, MN 55402  
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PROJECT	819026
FILE NAME	C0011

TEMPORARY CONVEYANCE PIPING  
SIPHON OUTLET IMPROVEMENTS  
DETAILS

C11

\\US0291-PPFSS01\SHARED\_PROJECTS\7342009106\_DESIGN\8\_CAD\DWG\SHEETS\TEMPORARY CONVEYANCE PIPING\RC001.DWG  
PLOT: 10/19/2023 5:11:13 PM  
MODIFIED: 8/26/2023 12:03:37 PM



NOTE: FOR SIPHON PLAN AND PROFILE  
INFORMATION THIS AREA - SEE DWG C6.1

2-13-98		KF	RECORD DRAWINGS	DESIGNED	KLF/BAS	CHECKED	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		APPROVED RECORD DRAWING		PROJECT NO. 900000		BLOOMINGTON SIPHON IMPROVEMENTS		C10.1	
2-25-94		KF	CHANGE ORDER NO 20 END RELINING 14' W OF MH-6	DRAWN	KRU/CDD	APPROVED	KENNETH L. FOSTER		CONSULTING ENGR REP. Arlene T. McCaughey DATE 8/30/98		CONTRACT C-2895		METER STATION 500		49 of 91	
2-25-94		KF	ISSUED FOR BIDDING	DATE	2/25/94	COMM	DATE 2/25/94 REG. NO. 9586		MWCC CONSTRUCTION DEPT REP.		FILE NAME 03000101		ENLARGED SITE PLAN		MINNESOTA	
REVISIONS																

								DESIGNED				I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			
								DLK							
								DRAWN				SIGNATURE: _____			
								ENW							
								CHECKED				TYPED OR PRINTED NAME: DARYL L. KIRSCHENMAN			
								---				DATE: _____ REG NO. 24744			
REVISIONS								REVISIONS							
NO	DATE	BY	REMARKS					NO	DATE	BY	REMARKS				
ISSUED FOR BIDDING															

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Minneapolis, MN 55402  
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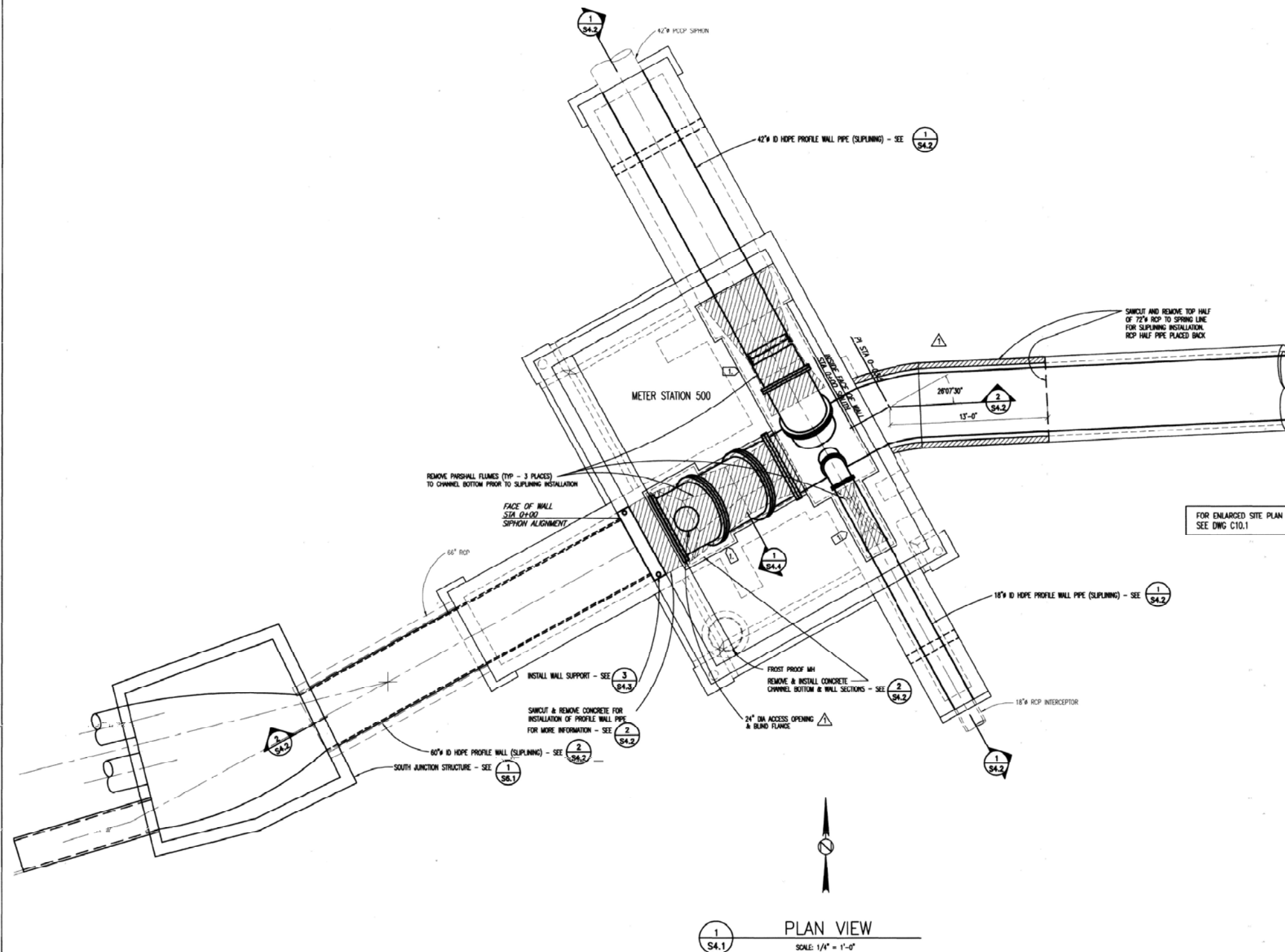
PROJECT	819026	TEMPORARY CONVEYANCE PIPING SIPHON OUTLET IMPROVEMENTS C10.1 SITE PLAN	RC1
FILE NAME	RC001		

NONPUBLIC DATA

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PLOTTER: 10/19/2023 3:11:41 PM  
MODIFIED: 5/26/2023 7:05:35 PM



KEY NOTE:  
1 REMOVE FLOOR GRATING FOR CONSTRUCTION PHASE  
REINSTALL FLOOR GRATING AT COMPLETION OF PROJECT



FOR ENLARGED SITE PLAN  
SEE DWG C10.1

1 S4.1  
PLAN VIEW  
SCALE: 1/4" = 1'-0"

2-13-98 KF RECORD DRAWINGS				DESIGNED KLF/BMS	CHECKED	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		APPROVED RECORD DRAWING		PROJECT NO. 900300	S4.1
2-25-94 KF CHANGE ORDER NO 13 DELETE ACCESS STRUCTURE				DRAWN MSU	APPROVED	KENNETH L. FOSTER		CONSULTING ENGR. REP. Arlene J. McCaughey DATE 5/30/98		CONTRACT C-2895	
NO DATE BY REMARKS				DATE 2/25/94	COMM.	DATE 2/25/94 REG. NO. 9586		MWCC CONSTRUCTION DEPT. REP.		FILE NAME 03005041	
REVISIONS				2/25/94		2/25/94		MWCC ENGR. DEPT. REP.		BLOOMINGTON	67 of 91

NO DATE BY REMARKS				NO DATE BY REMARKS			
REVISIONS				REVISIONS			

DESIGNED	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
DLK	
DRAWN	
ENW	
CHECKED	
---	
SIGNATURE: _____	
TYPED OR PRINTED NAME: _____ DARYL L. KIRSCHENMAN	
---	DATE: _____ REG. NO. 24744

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Minneapolis, MN 55402  
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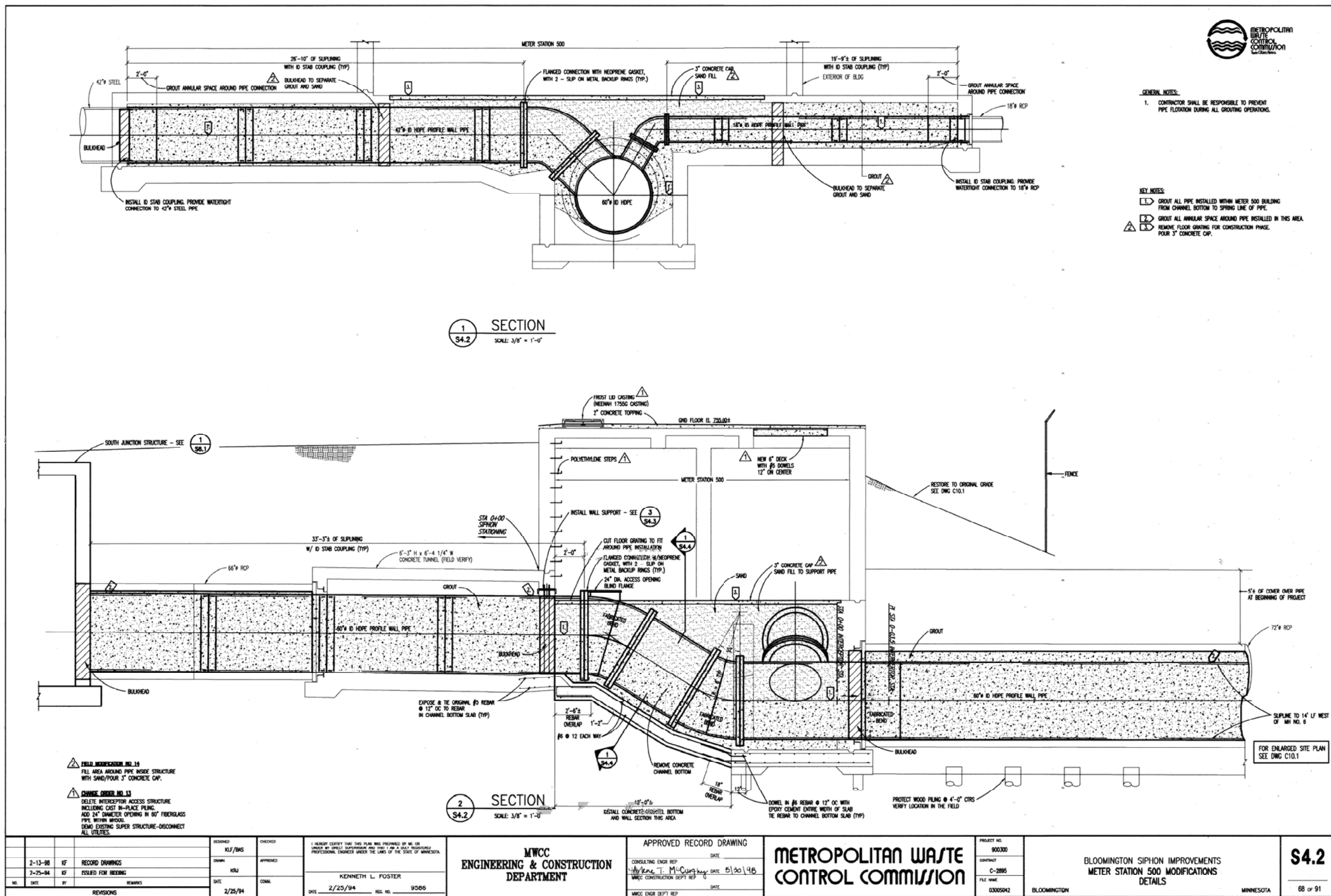
PROJECT 819026
FILE NAME RC002

TEMPORARY CONVEYANCE PIPING  
SIPHON OUTLET IMPROVEMENTS  
S4.1 SOUTH JUNCTION STRUCTURE

NONPUBLIC DATA

RC2

\\US0291-PFSS01\SHARED\_PROJECTS\7242009106\_DESIGN\8\_CADD\DWGS\SHEETS\TEMPORARY CONVEYANCE PIPING\RC003.DWG  
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MODIFIED: 5/28/2023 10:18 AM



NONPUBLIC DATA



PROJECT	819026	TEMPORARY CONVEYANCE PIPING SIPHON OUTLET IMPROVEMENTS S4.2 SOUTH JUNCTION STRUCTURE	RC3
FILE NAME	RC003		



\\US0291-PFSS01\SHARED\_PROJECTS\7342009106\_DESIGN\8\_CADD\DWGS\TEMPORARY CONVEYANCE PIPING\RC004.DWG  
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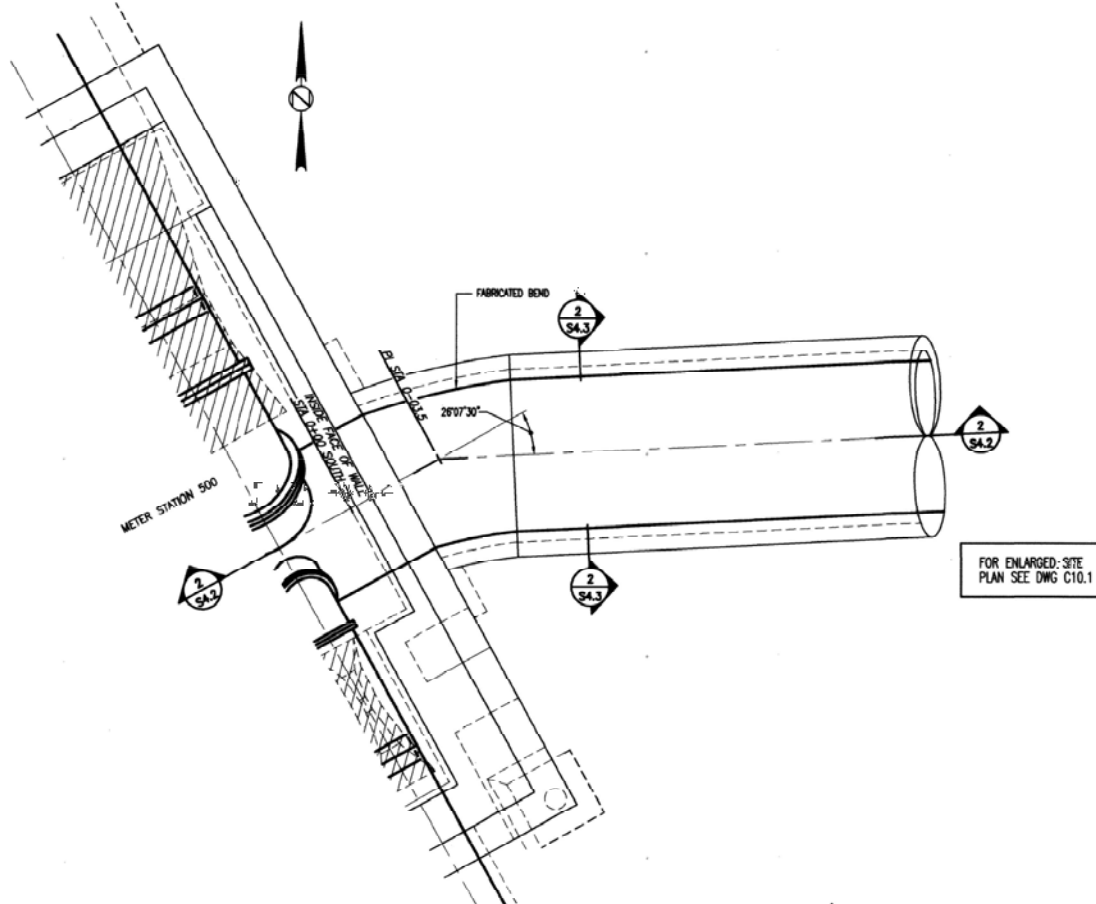


GENERAL NOTES:

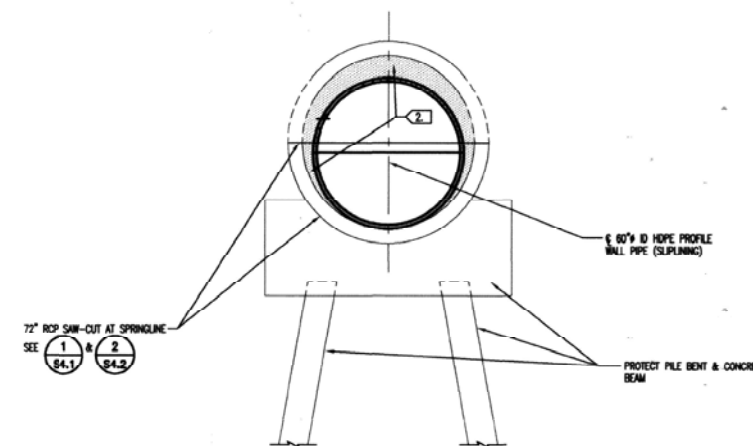
1. CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT PIPE FLUTATION DURING ALL GROUTING OPERATIONS.

KEY NOTES:

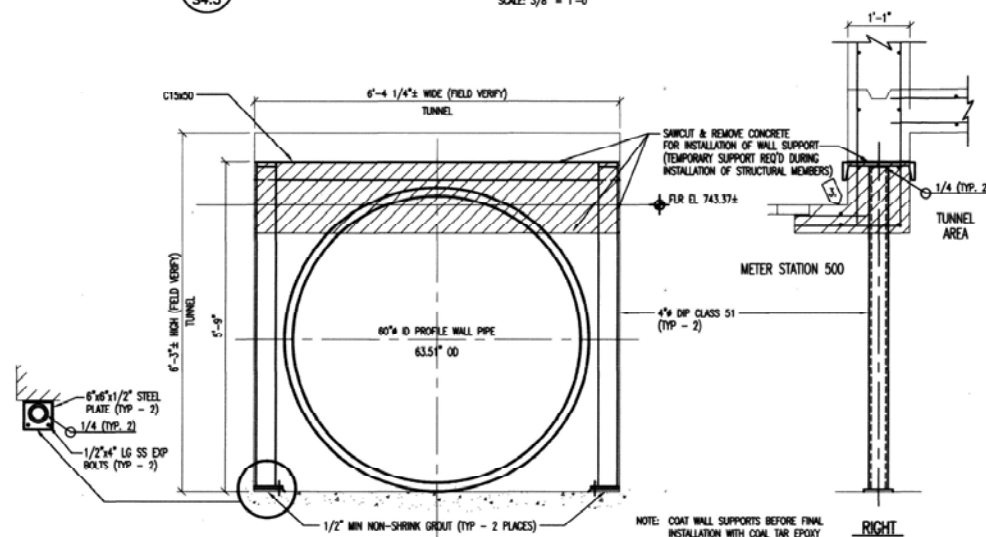
1. GROUT ALL PIPE INSTALLED WITHIN METER STATION 500 FROM CHANNEL BOTTOM TO SPRING LINE OF PIPE.
2. GROUT ALL ANNULAR SPACE AROUND PIPE INSTALLED IN THIS AREA.
3. REMOVE FLOOR GRATING FOR CONSTRUCTION PHASE. REINSTALL FLOOR GRATING AT COMPLETION OF PROJECT.
4. SEE SPECIFICATION SECTION 09800 FOR SPECIAL COATING.



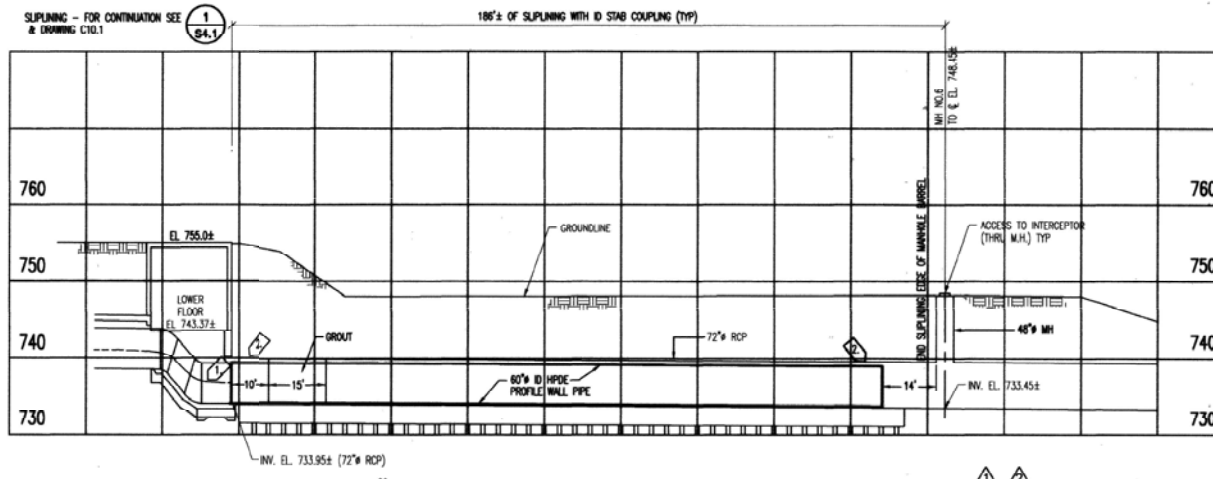
1 PLAN - INTERCEPTOR ACCESS STRUCTURE  
SCALE: 3/8" = 1'-0"



2 INTERCEPTOR ACCESS STRUCTURE  
SCALE: 3/8" = 1'-0"



3 WALL SUPPORT DETAIL  
SCALE: 3/4" = 1'-0"



4 72" RCP SANITARY SEWER SLIPLINING PROFILE  
SCALE: HORIZ 1" = 20'-0", VERT 1" = 10'-0"

2-13-98	KF	RECORD DRAWINGS	DESIGNED	KLJ/BAS	CHECKED	
	KF	CHANGE ORDER NO 13 DELETE ACCESS STRUCTURE	DRAWN	KRA	APPROVED	
2-25-94	KF	CHANGE ORDER NO 20 END HOPE 14" W OF MH 6	DATE	2/25/94	COML	
		ISSUED FOR BIDDING				
REVISIONS						

MWCC  
ENGINEERING & CONSTRUCTION  
DEPARTMENT

APPROVED RECORD DRAWING  
DATE  
CONSULTING ENGR REP  
Arlene T. McCarty  
DATE 5/30/98  
MWCC CONSTRUCTION DEPT REP  
DATE  
MWCC ENGR DEPT REP

METROPOLITAN WASTE  
CONTROL COMMISSION

PROJECT NO.  
900300  
C-2895  
FILE NAME  
00005043

BLOOMINGTON SIPHON IMPROVEMENTS  
METER STATION 500 MODIFICATIONS  
DETAILS & PROFILE

S4.3

MINNESOTA 09 of 91

NONPUBLIC DATA



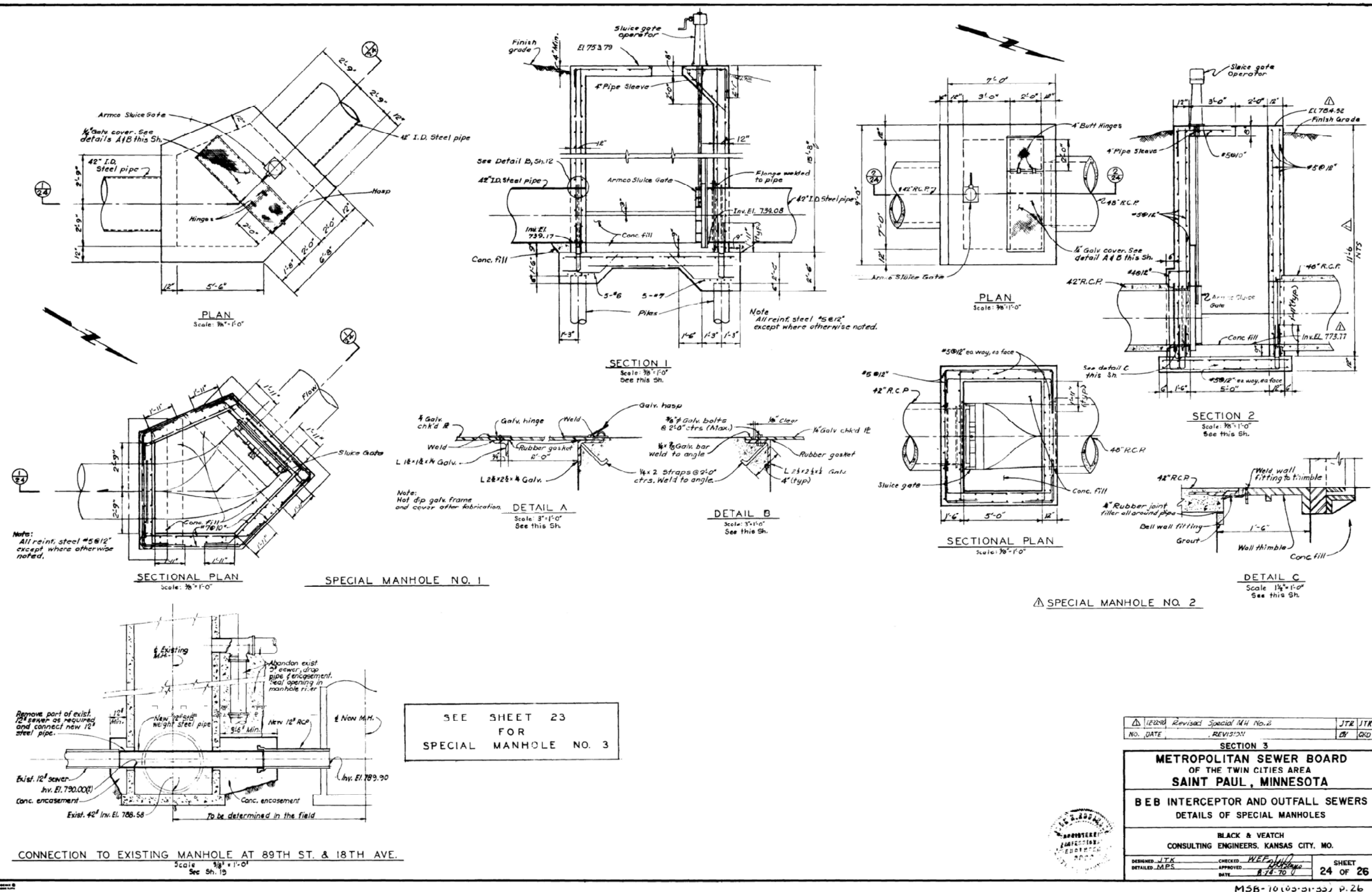
733 Marquette Avenue, Suite 1000  
Minneapolis, MN 55402  
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PROJECT  
819026

FILE NAME  
RC004

TEMPORARY CONVEYANCE PIPING  
SIPHON OUTLET IMPROVEMENTS  
S4.3 SOUTH JUNCTION STRUCTURE TO MH6

RC4

[illegible]

DESIGNED	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		
DLK			
DRAWN	SIGNATURE: _____		
ENW	DARYL L. KIRSCHENMAN		
CHECKED	TYPED OR PRINTED NAME: _____		
—	DATE: _____	REG NO	24744



PROJECT	819026
FILE NAME	RC005

TEMPORARY CONVEYANCE PIPING  
SIPHON OUTLET IMPROVEMENTS  
**MH1 DETAIL**

RC5



\\US0291-PFSS01\SHARED\_PROJECTS\7342009106\_DESIGN\8\_CADD\DWGS\TEMPORARY CONVEYANCE PIPING\RC006.DWG

US0291-PFSS01\SHARED\_PROJECTS\7342009106\_DESIGN\8\_CADD\DWGS\TEMPORARY CONVEYANCE PIPING\RC006.DWG  
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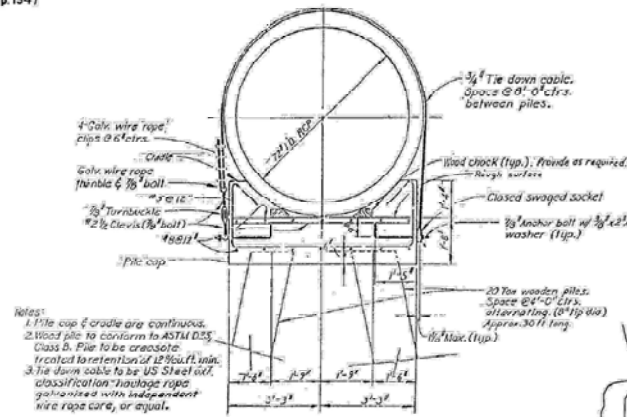
MAINTENANCE: 12-FEB-1986 13

- COMMUNICATION CABLE (BURIED IN CONC.)  
FINISH GRADE CONTOUR (U.S.G.S DATUM)  
EXIST. GROUND CONTOUR (U.S.G.S DATUM)  
PERMANENT EASEMENT  
SURVEY LINE, P.I. OR P.O.T.  
NEW SANITARY SEWERS AND MANHOLES  
EXIST. SANITARY SEWERS AND MANHOLES  
RELOCATED WATER LINES  
EXIST. WATER LINES  
WATER OR GAS VALVE  
FIRE HYDRANT  
EXIST. STORM SEWERS, MANHOLES, CATCH BASINS AND DROP INLETS  
GAS LINES  
TELEPHONE OR POWER POLE AND GUY ANCHOR  
FENCE  
EXISTING SLIP LINED GRAVITY SEWER  
GRAVITY SEWER TO BE REHABILITATED  
CONSTRUCTION LIMITS  
PROPERTY LINE  
SILTATION FENCE. SEE 1/C2  
SOIL BORING

# LEGEND

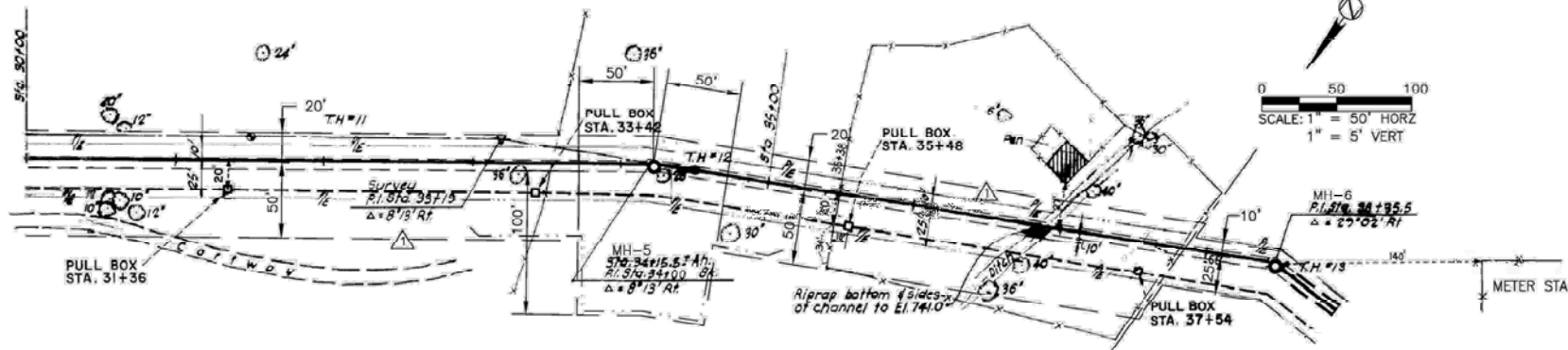
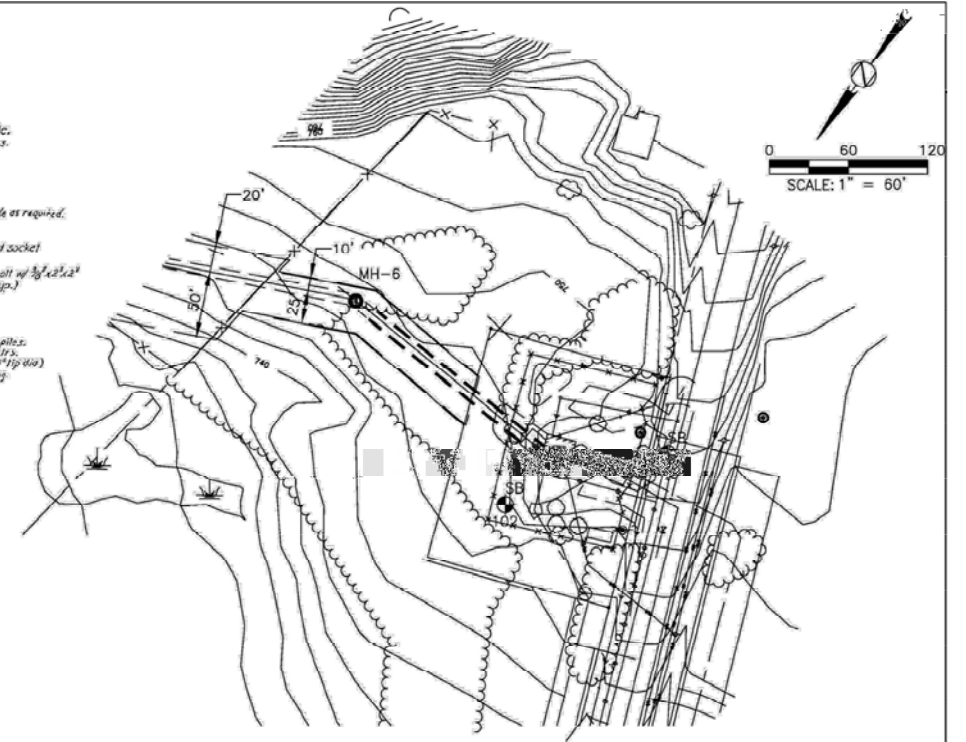
- CONC. PULL BOX (DETAILS SEE PROJ. 70-02 p.134)  
HEDGES, DENSE SHRUBS OR TREES  
TREES AND SIZE  
SURFACED ROADS AND DRIVES  
NON-SURFACED ROADS AND DRIVES  
BANK LINES  
DRAINS AND CULVERTS  
BUILDINGS  
CONCRETE WALKS  
TEST HOLES AND NUMBER  
BENCH MARK  
TEMPORARY BENCH MARK  
NAIL IN BOTTLE CAP  
HUB AND TACK  
RED HEAD NAIL  
REINFORCED CONCRETE PIPE  
PRESTRESSED CONCRETE CYLINDER PIPE  
VITRIFIED CLAY PIPE

- CONC. PULL BOX (DETAILS SEE PROJ. 70-02 p.134)  
HEDGES, DENSE SHRUBS OR TREES  
TREES AND SIZE  
SURFACED ROADS AND DRIVES  
NON-SURFACED ROADS AND DRIVES  
BANK LINES  
DRAINS AND CULVERTS  
BUILDINGS  
CONCRETE WALKS  
TEST HOLES AND NUMBER  
BENCH MARK  
TEMPORARY BENCH MARK  
NAIL IN BOTTLE CAP  
HUB AND TACK  
RED HEAD NAIL  
REINFORCED CONCRETE PIPE  
PRESTRESSED CONCRETE CYLINDER PIPE  
VITRIFIED CLAY PIPE



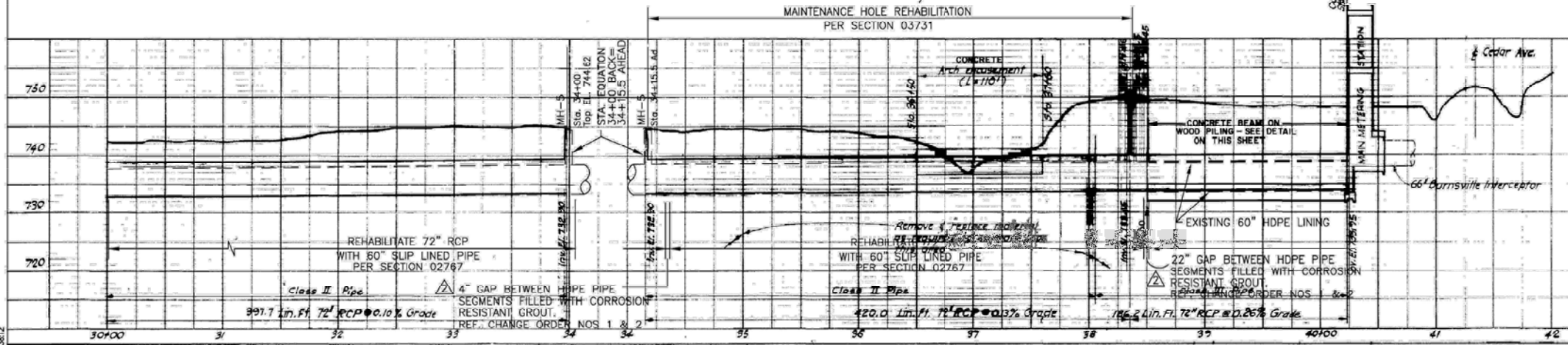
PILE BENT DETAIL

Scale: 1" = 5'-0"  
MSB, MINN. P.A. 5232  
7-7-71 WET JON



## NOTES:

1. THE EXISTING 72" RCP GRAVITY SEWER IS IN POOR STRUCTURAL CONDITION. THE CONTRACTOR SHALL NOT STOCKPILE SOIL AND MATERIALS OVER THE EXISTING INTERCEPTOR AND SHALL LIMIT CONSTRUCTION TRAFFIC OVER THE 72" RCP.
2. THE TOTAL LENGTH OF 60" HDPE SLIP LINING = 1448 LF



NO.	DATE	BY	REVISIONS	REMARKS	NO.	DATE	BY	REVISIONS	REMARKS
1	5-26-96	ESD	RECORD DRAWING						
2	5-21-96	ESD	CHANGE ORDER NO 1 AND 2						
3	2-12-96	ESD	ADDENDUM NO 1						
4	1-26-96	ESD	ISSUED FOR BIDDING						

DESIGNED	CSD	CHECKED	
DRAWN	JPC	APPROVED	
DATE	1-26-96	DATE	1-26-96

EDWARD S. DENTZ  
1-26-96  
19013

APPROVED RECORD DRAWING  
CONSULTING ENGR REP  
DATE  
METS CONSTRUCTION DEPT REP  
DATE  
METS ENGR DEPT REP  
DATE

PROJECT NO.  
900301  
CONTRACT  
C-3091  
FILE NAME  
0301001.DWG

BEB INTERCEPTOR (MSB-7033) REHABILITATION  
PLAN AND PROFILE  
MINNESOTA  
2 of 4

NONPUBLIC DATA



PROJECT  
819026  
FILE NAME  
RC006

TEMPORARY CONVEYANCE PIPING  
SIPHON OUTLET IMPROVEMENTS  
C1 7033 INTERCEPTOR

RC6

\\US0291-PPFSS01\SHARED\_PROJECTS\7242009\106\_DESIGN\8\_CAD\DWG\SHEETS\TEMPORARY CONVEYANCE PIPING\RC007.DWG

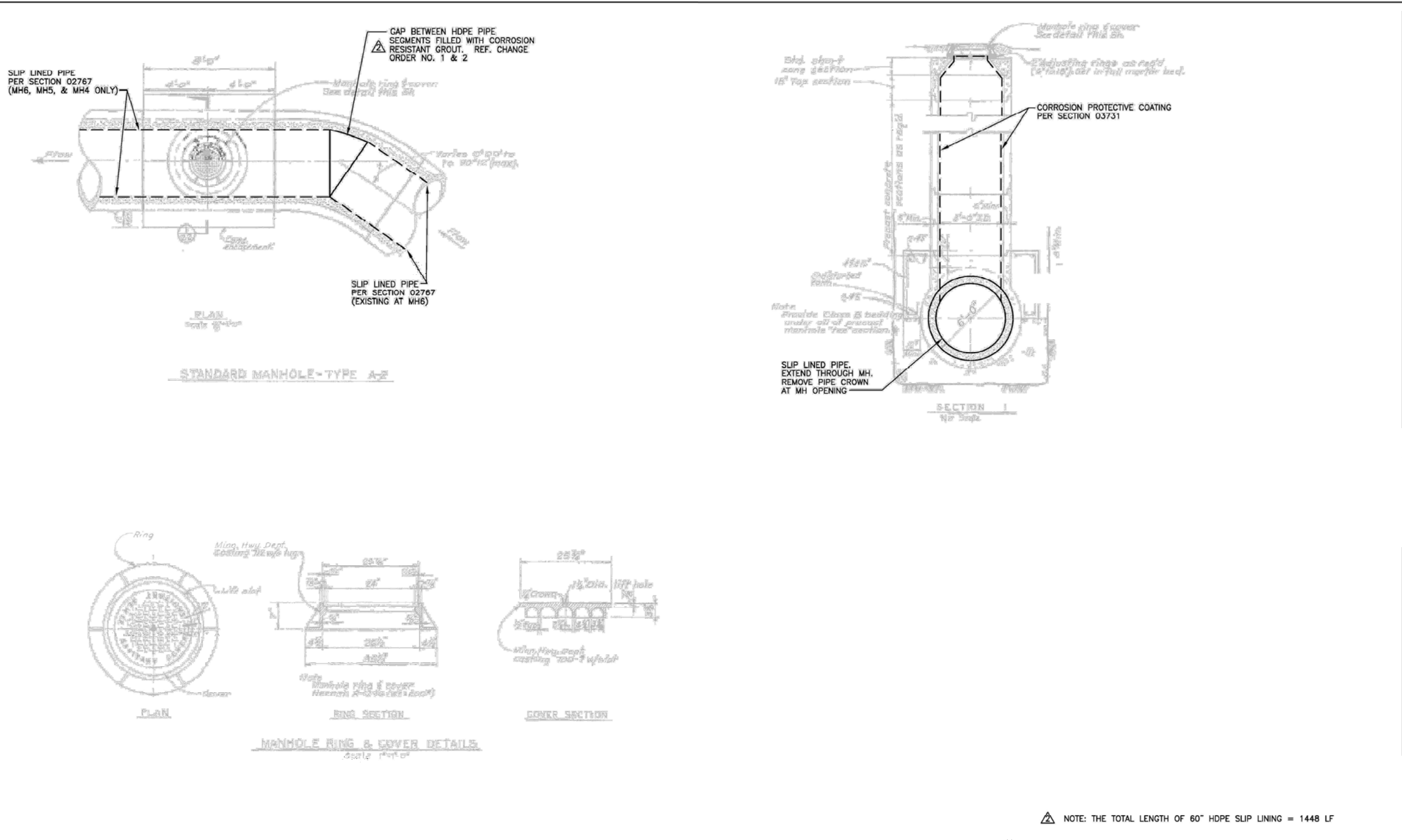
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MODIFIED: 24-Jun-1996 13:55:34

MODIFIED: 24-Jun-1996 13:55:34



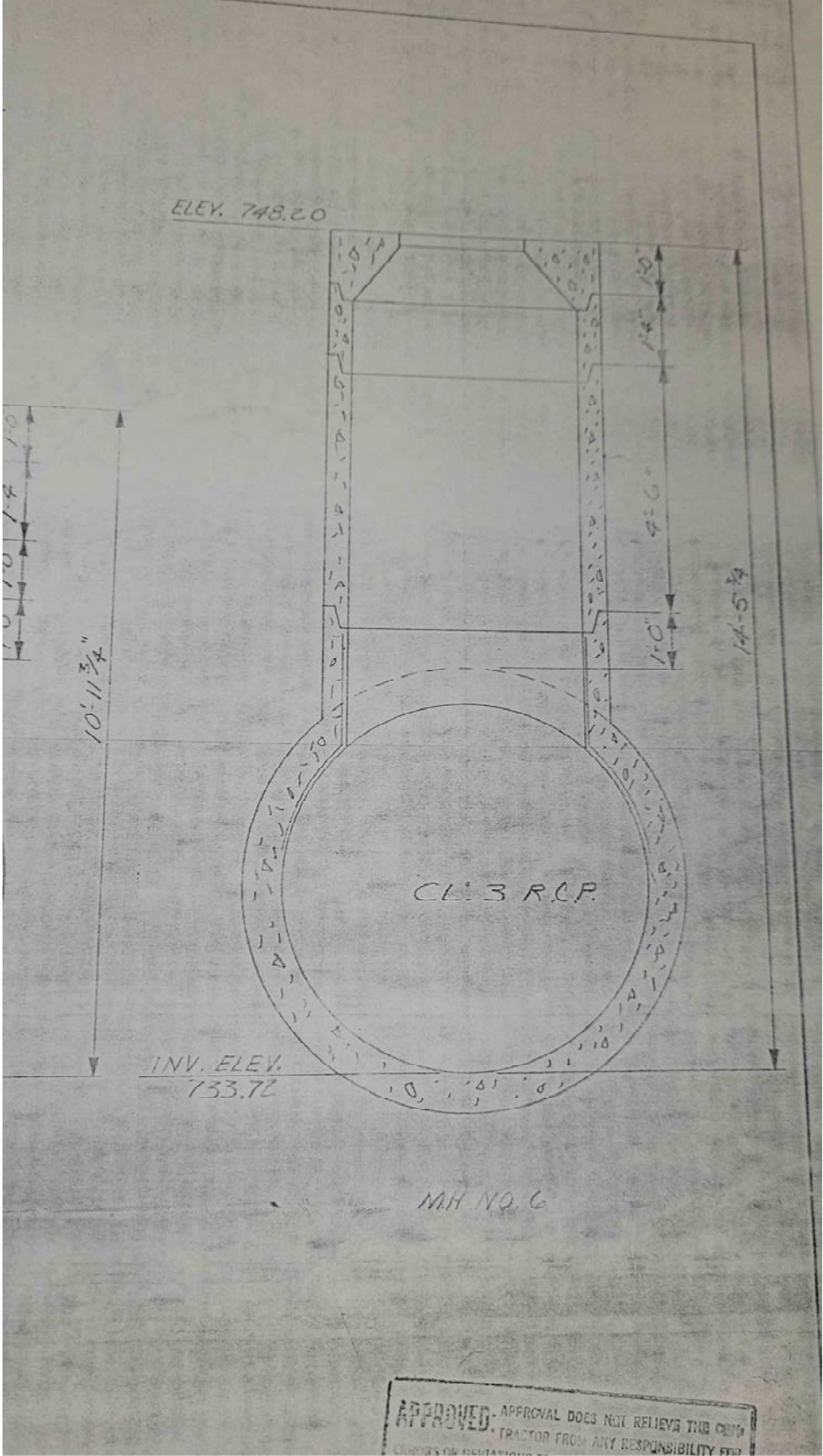
NOTE: THE TOTAL LENGTH OF 60" HDPE SLIP LINING = 1448 LF

DESIGNED ESD				CHECKED JPC				I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.				APPROVED RECORD DRAWING				PROJECT NO: 900301				BEB INTERCEPTOR (MSB-7033) REHABILITATION				C3			
DRAWN JPC				DATE 1-26-96				EDWARD S. DENTZ				CONSULTING ENR REP				CONTRACT C-3091				DETAILS				4 of 4			
REVISIONS				REVISIONS				MOES CONSTRUCTION DEPT REP				MOES ENR DEPT REP				FILE NAME 0301C03R.DWG				BURNSVILLE				MINNESOTA			
NO				NO				DATE				DATE				DATE				DATE				DATE			
BY				BY				BY				BY				BY				BY				BY			
REMARKS				REMARKS				REMARKS				REMARKS				REMARKS				REMARKS				REMARKS			
6-26-96				5-21-96				1-26-96																			
ESD				ESD				ESD																			
RECORD DRAWING				CHANGE ORDER NO 1 & 2				ISSUED FOR BIDDING																			

NONPUBLIC DATA

DESIGNED DLK				DRAWN ENW				CHECKED ---				I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.				SIGNATURE DARYL L. KIRSCHENMAN				TYPED OR PRINTED NAME DARYL L. KIRSCHENMAN				DATE 1-26-96				REG NO 24744			
NO				NO				NO				NO				NO				NO				NO				NO			
BY				BY				BY				BY				BY				BY				BY				BY			
REMARKS				REMARKS				REMARKS				REMARKS				REMARKS				REMARKS				REMARKS				REMARKS			
MM/DD/YY				ISSUED FOR BIDDING																											
REVISIONS				REVISIONS				REVISIONS				REVISIONS				REVISIONS				REVISIONS				REVISIONS				REVISIONS			
PROJECT 819026				FILE NAME RC007				TEMPORARY CONVEYANCE PIPING SIPHON OUTLET IMPROVEMENTS C3 7033 MH NO. 6				RC7																			

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PLOTTER: 10/19/2023 3:14:30 PM  
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MM/DD/YY				ISSUED FOR BIDDING			
NO	DATE	BY	REMARKS	NO	DATE	BY	REMARKS
REVISIONS				REVISIONS			

DESIGNED	DLK
DRAWN	ENW
CHECKED	---
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	
SIGNATURE: _____	
TYPED OR PRINTED NAME: DARYL L. KIRSCHENMAN	
DATE: _____	REG NO: 24744

**Stantec**

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Minneapolis, MN 55402  
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PROJECT	819026
FILE NAME	RC008

TEMPORARY CONVEYANCE PIPING SIPHON OUTLET IMPROVEMENTS MH NO. 6 ORIGINAL SHOP DRAWING
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NONPUBLIC DATA

RC8