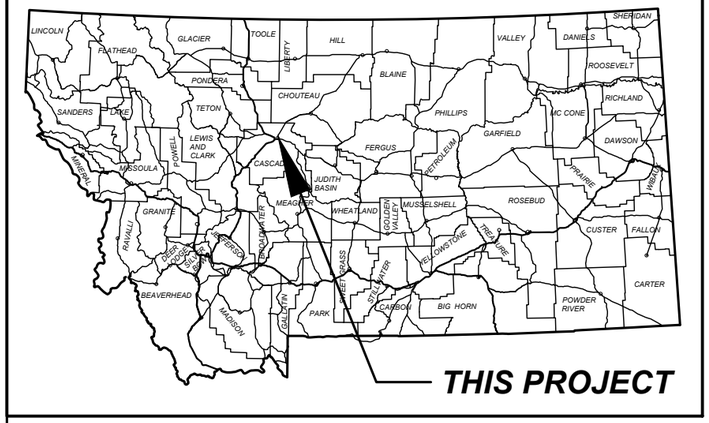
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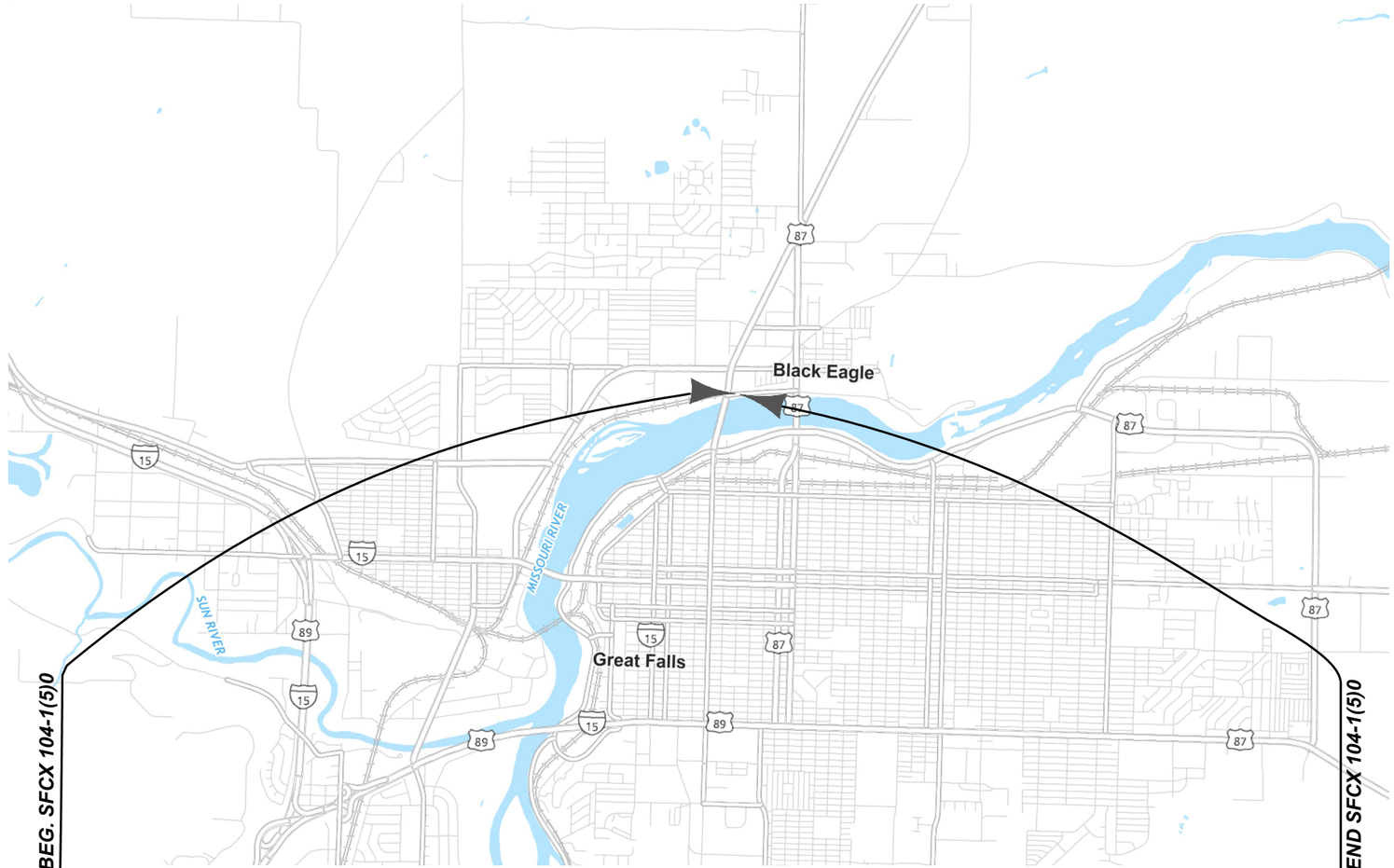
MONTANA DEPARTMENT OF TRANSPORTATION

STATE FUNDED PROJECT SFCX 104-1(5)0
10TH STREET NORTH DRAINAGE - GF
CASCADE COUNTY

LENGTH 0.1 MILES

SURFACING SOURCES - CONTRACTOR FURNISHED

RELATED PROJECTS
10316000 NH 102-1(133) Black Eagle NHS Routes



T. 20N R. 3E
SEC.01

MONTANA
DEPARTMENT OF TRANSPORTATION

APPROVED BY:
HIGHWAYS
DESIGN ENGINEER

Signed by:
54B7CB8717154A3...

MONTANA
MEGAN CAIL
29099PE
LICENSED PROFESSIONAL ENGINEER

4/4/2025
DATE

SHEET NO.
01

TITLE SHEET

PROJECT NAME	10TH STREET NORTH DRAINAGE - GF	
COUNTY	CASCADE COUNTY	
PROJECT ID	SFCX 104-1(5)0	
UPN	10612000	
DESIGNED BY	C. MCGAUGH	02/2025
REVIEWED BY	J. COMBS	02/2025
CHECKED BY	J. SOLIDAY	02/2025

MONTANA
Department of Transportation

ROAD PLANS

2/26/2025 2:50 PM

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)
COMP. AGGREGATE WEIGHT = 3700 LBS. PER CUBIC YARD
PORTLAND CEMENT = 4% OF CTB DRY WT.

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

DO NOT DISTURB

MANHOLE COVERS (SEE DETAIL SHEET)

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS WITHOUT THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

SHEET NO.
02

TABLE OF CONTENTS & NOTES

MONTANA
Department of Transportation

ROAD PLANS

DESIGNED BY		
C. MCGAUGH	02/2025	
REVIEWED BY		
J. COMBS	02/2025	
CHECKED BY		
J. SOLIDAY	02/2025	

PROJECT NAME: 10TH STREET NORTH DRAINAGE - GF
COUNTY: CASCADE COUNTY
PROJECT ID: SFCX 104-1(5)0
UPN: 10612000

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CONTROL DIAGRAM

SCALE: N/A

NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-1999 NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET. DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING REQUIRE THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE / CSF = GROUND DISTANCE). THE CSF FOR THIS PROJECT IS 0.99927407

BEARING SOURCE
GRID -- MONTANA COORDINATE SYSTEM NAD 83-1999

LEVEL DATUM SOURCE
GRID -- MONTANA COORDINATE SYSTEM NAD 83-1999
NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID03 AND HOLDING BMS 2C)

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
B6589	1198645.747	1527604.992	3370.31
V6589	1198774.650	1530945.775	3414.65

NORTH RIVER DR.

STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
10+00.00	BOA	1,198,032.2640	1,526,437.1240	
11+33.33	PC	1,198,055.7230	1,526,568.3710	
11+91.36	PT	1,198,064.6970	1,526,625.7030	
12+34.51	EOA	1,198,070.4480	1,526,668.4700	

SHEET NO. 03

CONTROL DIAGRAM

PROJECT NAME 10TH STREET NORTH DRAINAGE - GF
COUNTY CASCADE COUNTY
PROJECT ID SFCX 104-1(5)0
UPN 10612000

DESIGNED BY	DATE
C. MCGAUGH	02/2025
REVIEWED BY	DATE
J. COMBS	02/2025
CHECKED BY	DATE
J. SOLIDAY	02/2025

MONTANA Department of Transportation

ROAD PLANS

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SUMMARY

P.C.C.P. SLAB

PANEL LOCATION #		REMOVE CONCRETE PAVEMENT	P.C.C.P. SLAB REPLACEMENT	AGGREGATE	REMARKS
		square yds.		cubic yds.	
FROM	TO	SLAB REMOVAL*	SLAB REPLACEMENT*	CRUSHED AGG. COURSE*	
10+48	11+03	256.0	256.0	43.0	9" P.C.C.P & 0.5' CAC
SUBTOTAL		256.0	256.0	43.0	
TOTAL		256.0	256.0	43.0	

#LOCATIONS ARE APPROXIMATE, VERIFY IN THE FIELD
* AREA MEASURED ON CAD.

MANHOLES IN PLACE

STATION	each		REMARKS
	ADJUST MANHOLE		
	LEFT	RIGHT	
10+84.74		1	SANITARY SEWER
10+92.21		1	SANITARY SEWER
SUBTOTAL	0	2	
TOTAL	2		

CURB

STATION		linear feet				REMARKS
		CONCRETE CURB AND GUTTER*		REMOVE CURB AND GUTTER*		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	
10+55.00	11+00.00	45.0		45.0		CORNER OF 10TH ST & NORTH RIVER RD
SUBTOTAL		45.0	0.0	45.0	0.0	
TOTAL		45		45		

*AREA MEASURED ON CAD.

CULVERTS

STATION	linear feet	CLASS OR THK.	END SECTIONS		linear feet	cu. yards			REMARKS
	RCP				REMOVE PIPE CULVERT	FILL & ABANDON PIPE	CONCRETE - CLASS GENERAL	CULVERT IN PL. in x ft	
	30"		LEFT	RIGHT					
10+61					42.0	14	1.2	30" X 133.9' CMP	
10+61	132.6	CL. 3		FETS					SEE HYDRAULICS DETAIL
TOTAL	134	~	~	~	42	14	1.2	~	

SHEET NO. 04

SUMMARY SHEET

PROJECT NAME: 10TH STREET NORTH DRAINAGE - GF
COUNTY: CASCADE COUNTY
PROJECT ID: SFCX 104-1(5)0
UPN: 10612000

DESIGNED BY	02/2025
C. MCGAUGH	
REVIEWED BY	02/2025
J. COMBS	
CHECKED BY	02/2025
J. SOLIDAY	

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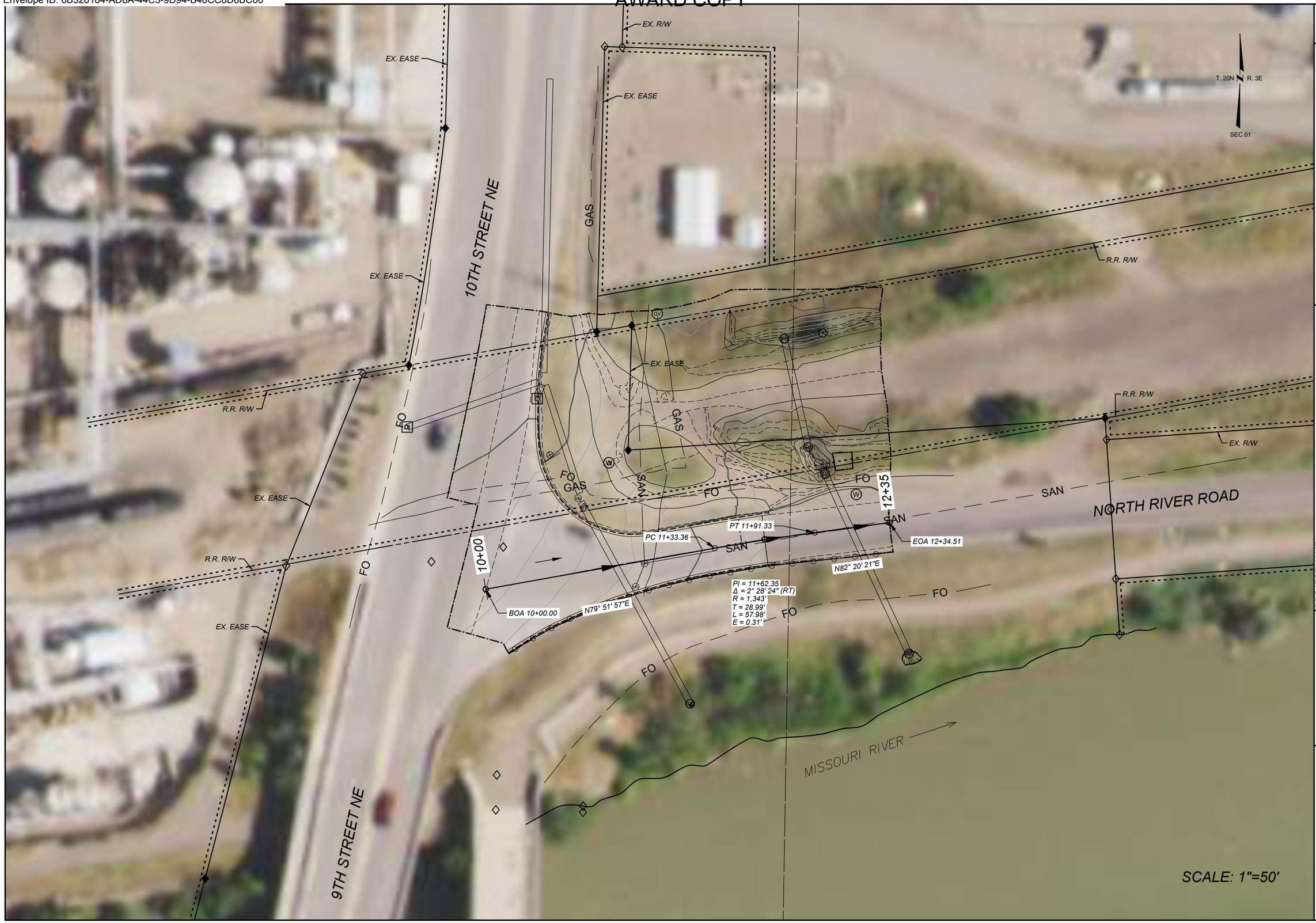
MONTANA Department of Transportation

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SHEET NO. 05

PLAN SHEET

PROJECT NAME **10TH STREET NORTH DRAINAGE - GF**

COUNTY **CASCADE COUNTY**

PROJECT ID **SFCX 104-1(5)0**

UPN **10612000**

DESIGNED BY		REVIEWED BY		CHECKED BY	
C. MCGAUGH	02/2025	J. COMBS	02/2025	J. SOLIDAY	02/2025

MONTANA Department of Transportation

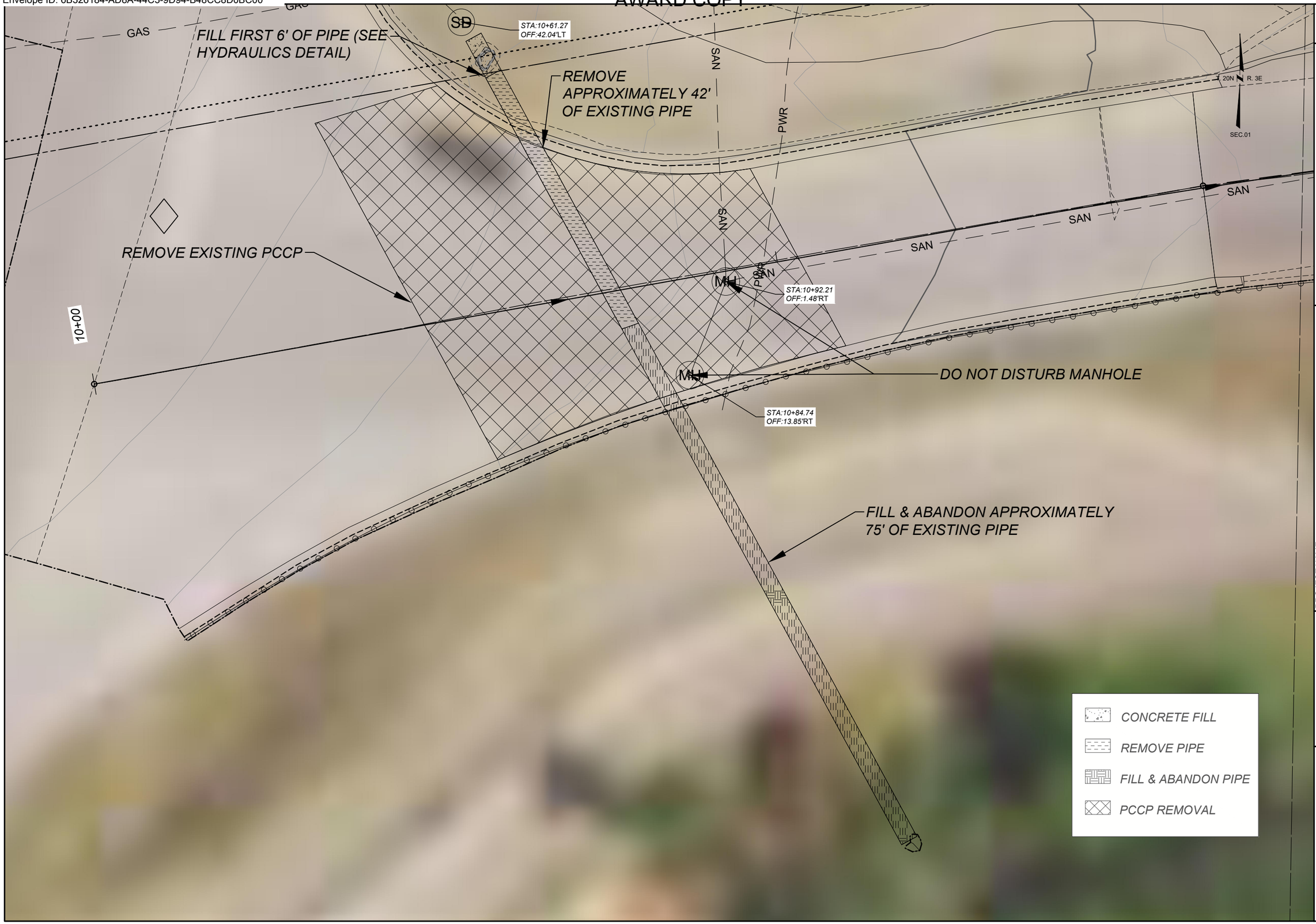
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SHEET NO.
06

DETAIL SHEET

PROJECT NAME
10TH STREET NORTH DRAINAGE - GF

COUNTY
CASCADE COUNTY

PROJECT ID
SFCX 104-1(5)0

UPN
10612000

DESIGNED BY		REVIEWED BY		CHECKED BY	
C. MCGAUGH	02/2025	J. COMBS	02/2025	J. SOLIDAY	02/2025

MONTANA
Department of Transportation

ROAD PLANS

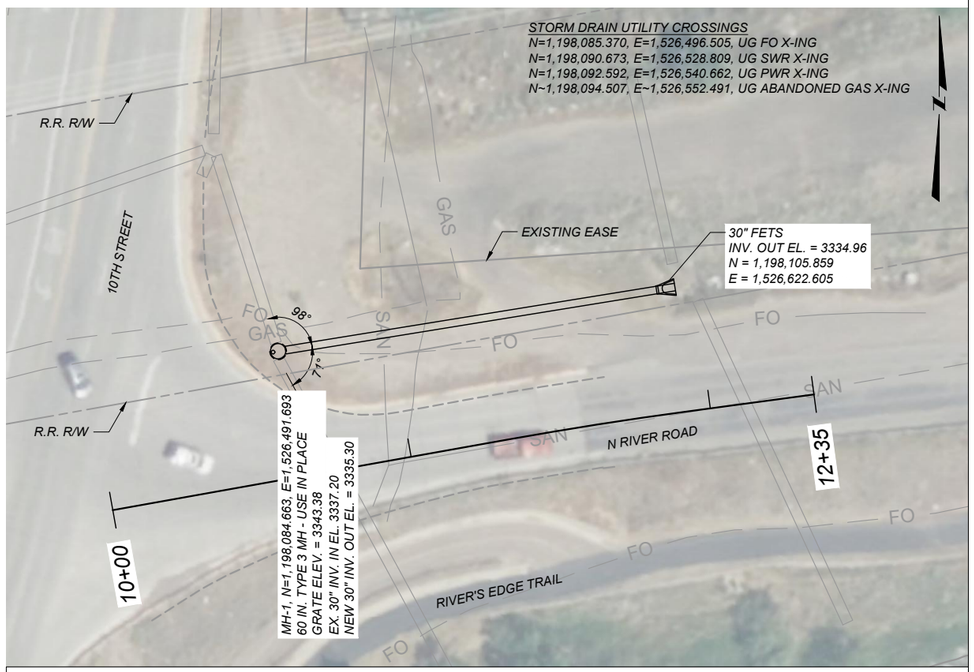
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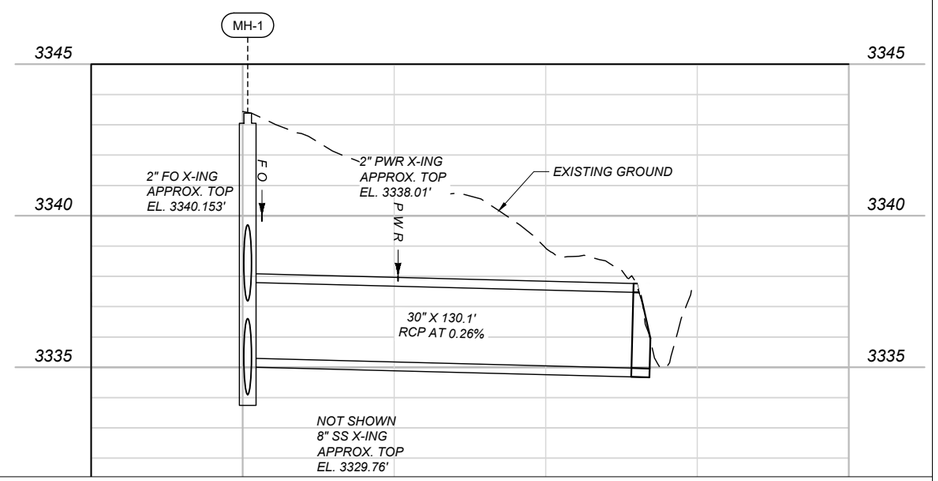
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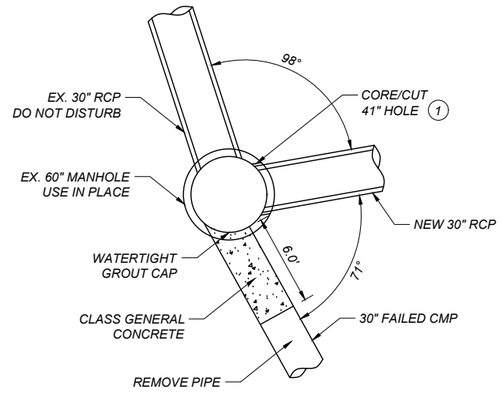
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DETAIL

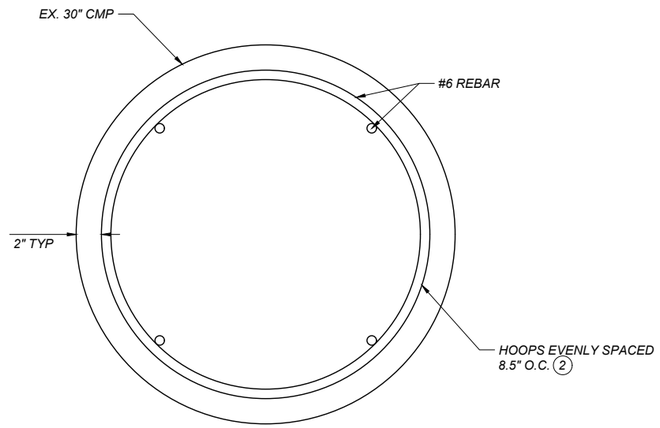


NOTE:
INSIDE EDGE OF STRUCTURE TO OUTFALL LENGTH USED FOR SLOPE CALCULATION ONLY
CENTER OF STRUCTURE TO OUTFALL USED FOR BID LENGTH





60" MANHOLE LAYOUT



30" FAILED CMP REBAR LAYOUT

NOTES:
(1) CORING/CUTTING THE MANHOLE AND FIELD COLLAR ARE INCIDENTAL TO THE COST OF THE PIPE.
(2) EMBED REBAR 2 INCHES ON EITHER END OF THE 6 FOOT CONCRETE PLUG.

SHEET NO. 07

DRAINAGE REPAIR DETAIL

PROJECT NAME: **10TH STREET NORTH DRAINAGE - GF**
COUNTY: **CASCADE COUNTY**
PROJECT ID: **SFCX 104-1(5)0**
UPN: **10612000**

DESIGNED BY	REVIEWED BY	CHECKED BY
L. DAVIES 12/11/24	C. KNUTH 12/11/24	J. SOLIDAY 02/2025

10612000HYMAP001.DWG

MONTANA Department of Transportation

ROAD PLANS

11/4/2024 12:11 PM