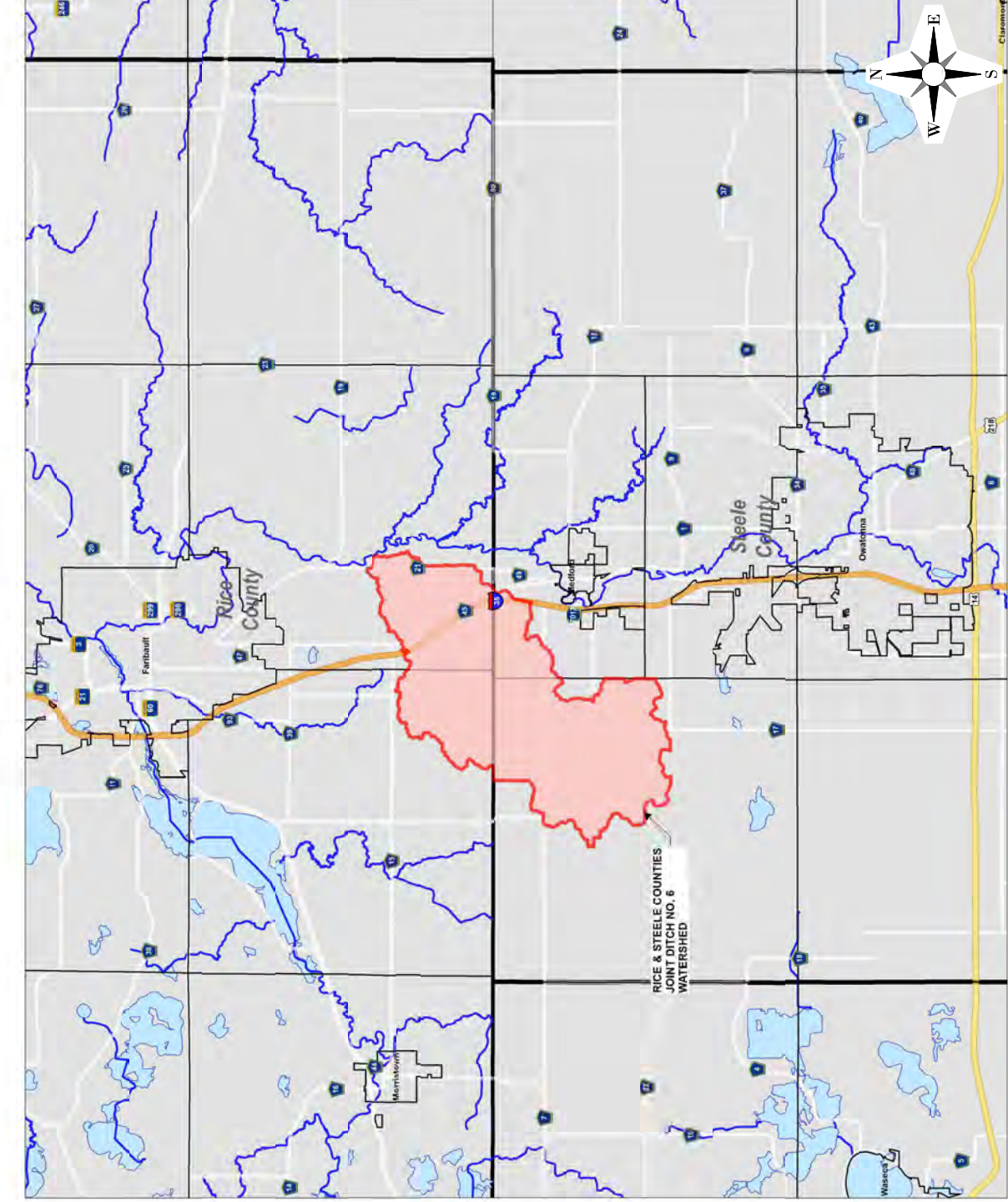


RICE & STEELE COUNTIES JUDICIAL DITCH NO. 6

RICE & STEELE COUNTIES, MINNESOTA CONSTRUCTION PLANS

ISG PROJECT # 22-25087



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- TITLE
- ESTIMATED QUANTITIES AND SCHEDULES
- CONSTRUCTION NOTES
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- STORMWATER POLLUTION PREVENTION PLAN NOTES
- STORMWATER POLLUTION PREVENTION DETAILS
- SEEDING MAP

LEGEND

EXISTING	PROPOSED
WATERSHED BOUNDARY	EASEMENT
CITY LIMITS	PROPOSED OPEN DITCH
SECTION LINE	OPEN DITCH REPAIR
QUARTER SECTION LINE	CULVERT (RCP)
RIGHT OF WAY LINE	CULVERT (CMP)
PROPERTY / LOT LINE	CULVERT (HDPE)
EASEMENT LINE	TILE
ACCESS CONTROL	TILE (PIPE WIDTH)
WATER EDGE	PRIVATE TILE
WETLAND BOUNDARY	WATER
FENCE LINE	GAS
EXISTING OPEN DITCH	OVERHEAD ELECTRIC
CULVERT	UNDERGROUND ELECTRIC
TILE	UNDERGROUND TELEPHONE
PRIVATE TILE	UNDERGROUND TV
WATER	OVERHEAD UTILITY
GAS	UNDERGROUND UTILITY
OVERHEAD ELECTRIC	UNDERGROUND FIBER OPTIC
UNDERGROUND ELECTRIC	CONTOUR (MAJOR)
UNDERGROUND TELEPHONE	CONTOUR (MINOR)
UNDERGROUND TV	DECIDUOUS TREE
OVERHEAD UTILITY	CONIFEROUS TREE
UNDERGROUND UTILITY	TREE LINE
UNDERGROUND FIBER OPTIC	DROP INTAKE
CONTOUR (MAJOR)	HYDRANT
CONTOUR (MINOR)	POWER POLE
DECIDUOUS TREE	
CONIFEROUS TREE	
TREE LINE	
DROP INTAKE	
HYDRANT	
POWER POLE	

PROJECT INDEX:

OWNER:
RICE - STEELE JOINT DRAINAGE AUTHORITY
STEVEN PAHS
RICE COUNTY DRAINAGE MANAGER
1810 30TH STREET NW
FARIBAULT, MN 55021
PH: 507.332.5408

PROJECT ADDRESS / LOCATION:
SECTIONS 31-32 WALLCOTT TWP.
RICE COUNTY, MINNESOTA

MANAGING OFFICE:
ST. LOUIS PARK OFFICE
6465 WAYZATA BOULEVARD
SUITE 970
ST. LOUIS PARK, MN 55426
PHONE: 952.426.0699

PROJECT MANAGER: BAILEY BOCCHINO
EMAIL: BAILEY.BOCCHINO@SGINC.COM

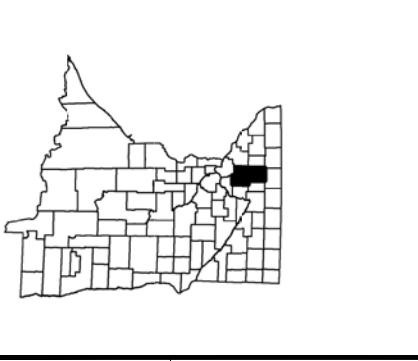


SPECIFICATIONS REFERENCE
ALL CONSTRUCTION SHALL COMPLY WITH RICE AND STEELE COUNTIES' REQUIREMENTS AND MDDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2020 EDITION, THE STANDARD SPECIFICATIONS FOR SANITARY SEWER, STORM DRAIN AND WATER MAIN AS PROPOSED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA, 2023 EDITION, AND THE CURRENT VERSION OF THE MINNESOTA STATE PLUMBING CODE UNLESS DIRECTED OTHERWISE.

PROJECT DATUM
HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), 1989 ADJUSTMENT (NAD83(1989)) ON THE RICE COUNTY COORDINATE SYSTEM, IN U.S. SURVEY FEET. ELEVATIONS HAVE BEEN REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). RTK GPS METHODS WERE USED TO ESTABLISH HORIZONTAL AND VERTICAL COORDINATES FOR THIS PROJECT.

B.M. ELEVATION = 1102.92
MDDOT GEODETIC STATION "MACKE"
AT INTERSTATE HIGHWAY 35 MILEPOST 50.45, 76.1 FEET NORTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35, 55.7 FEET SOUTHWEST OF A RIGHT-OF-WAY FENCE, 1.5 FEET SOUTHWEST OF A WITNESS POST.

TITLE
RICE & STEELE COUNTIES
JUDICIAL DITCH
No. 6



THESE CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BAILEY BOCCHINO
Bailey Bocchino

DATE: 11/14/24 LIC. NO.: 59968

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PROJECT
RICE & STEELE COUNTIES
JUDICIAL DITCH
No. 6

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO. 22-25087
FILE NAME 25087 TITLE
DRAWN BY KJH
DESIGNED BY BFB
REVIEWED BY BFB
ORIGINAL ISSUE DATE --/--
CLIENT PROJECT NO. --

TITLE
RICE & STEELE COUNTIES
JUDICIAL DITCH
No. 6

1 OF 27

GIS DISCLAIMER:
INFORMATION FOR THE BOUNDARY / LOT LINES, AND UNDERGROUND UTILITIES SHOWN WAS DERIVED FROM DIGITAL DATABASES AND IS FOR INFORMATIONAL PURPOSES ONLY. DATA MAY NOT HAVE BEEN PREPARED FOR, OR BE SUITABLE FOR, LEGAL ENGINEERING, OR SURVEYING PURPOSES.

PROJECT GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCREPANCIES BETWEEN DRAWINGS, CONTRACTS, AND CLARIFICATIONS ISSUED BY ARCHITECT/ENGINEER.
- CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN, WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED. NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED, AND CONDITIONED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURER'S INSTRUCTIONS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
- THE LOCATION AND TYPE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY AND ARE ACCURATE AND COMPLETE TO THE BEST OF THE KNOWLEDGE OF I & S GROUP, INC. (ISG). NO WARRANTY OR GUARANTEE IS IMPLIED. THE CONTRACTOR SHALL VERIFY THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM PLAN.
- THE CONTRACTOR IS TO CONTACT "GOPHER STATE ONE CALL" FOR UTILITY LOCATIONS A MINIMUM OF 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (1-800-252-1169).



TOTAL ESTIMATED QUANTITIES			
Item Code	Item	Unit	Estimated Quantity
01.7113.1000.01	MOBILIZATION	LS	1
31.2311.1000.03	CLEANING 13.5' X 12' RC BOX CULVERT	LF	395
31.2316.1000.07	COMMON EXCAVATION (P) (EV)	CY	8699
31.2316.1000.07	COMMON BORROW (P) (CV)	CY	257
31.2316.1000.07	TOP SOIL STRIP & PLACE SPOILS (EV)	CY	7425
31.2500.1000.03	INSTALL BIO-ROLL	LF	405
31.3700.1000.07	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	1453
32.9219.1000.04	SEED MIX 25-142 W/MNDOT CATEGORY 20 EROSION CONTROL BLANKET	SY	595
32.9219.1000.10	16.5' BUFFER STRIP SEEDING (SEED MIX: MNDOT SEED MIX 25-142 WITH TYPE 3 MULCH) SIDESLOPE SEEDING	AC	1.71
32.9219.1000.10	(SEED MIX: MNDOT SEED MIX 25-142 WITH TYPE 3 MULCH) SIDESLOPE SEEDING		
33.0513.1000.02	(SEED MIX: MNDOT SEED MIX 25-142 WITH CATEGORY 20 EROSION CONTROL BLANKET)	SY	12100
33.0513.1000.02	INSTALL 12-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	2
33.0513.1000.02	INSTALL 10-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1
33.0513.1000.02	INSTALL 12-INCH ASI OUTLET ASSEMBLY	EA	2
33.0513.1000.02	INSTALL 10-INCH ASI OUTLET ASSEMBLY	CY	1
33.4510.1000.02	24-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1
33.4510.1000.02	8-INCH TILE OUTLET	EA	2
33.4520.1000.02	(20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2
33.4520.1000.02	10-FOOT X 6-FOOT RC BOX CULVERT END SECTION REMOVE METAL CULVERTS	EA	6
33.4520.1000.02	REMOVE FIELD CROSSING	EA	2
33.4520.1000.03	10-FOOT X 6-FOOT RC BOX CULVERT	LF	42
33.4520.1000.03	96-INCH CLASS III RCP PIPE	LF	48
33.4520.1000.07	GRANULAR BEDDING MATERIAL	CY	55
34.0100.1000.02	OPEN CUT & RESTORE FIELD CROSSING	EA	1

TILE OUTLET REPAIR SCHEDULE			
LOCATION	STATION	SIDE OF DITCH	EXISTING OUTLET MATERIAL
Main	108+65	East	6" PVC
Main	124+90	North	8" HDPE
Main	158+53	North	24" CMP
Main	158+53	South	8" HDPE

RIPRAP SCHEDULE										
BRANCH (LOCATION)	LOCATION	CROSSING	STATION	Upstream			Downstream			
				MnDOT RIPRAP Size	Length (FT)	Width (FT)	MnDOT RIPRAP Size	Length (FT)	Volume (CY)	
MAIN	NEW FIELD CROSSING	115+75	Class III	15	37	60	Class III	40	37	110
MAIN	FIELD CROSSING	158+10	Class III	15	29	38	Class III	32	29	68

ALTERNATIVE SIDE INLET (ASI)								
ID	BRANCH (LOCATION)	STATION	Bid Item			Bid Item		
			INTAKE TYPE	RISER SIZE (in)	RISER DEPTH (LF)	OUTLET LENGTH (LF)	OUTLET GRADE (%)	
1	MAIN (SOUTH)	113+90	TRASH GRATE	12	8	12	65	2.0
2	MAIN (NORTH)	112+50	TRASH GRATE	12	10	12	100	2.0
3	MAIN (SOUTH)	125+00	TRASH GRATE	10	8	10	60	2.00

EARTHWORK NORTH SIDE OF DITCH STA. 113+00 TO 128+00			
SITE BALANCE:		Embankment	Topsoil
Common Excavation	+	3174 CY	1127 CY
Fill Material Needed	-	3435 CY	315 CY
Topsoil Strip (Fill Area)	+		3864 CY
Common Excavation for Topsoil Redress	+	643 CY	
Topsoil Redress(Fill Area)	-		3864 CY
Topsoil Redress(Side Slope Flattening)	-		643 CY
Common Excavation Shrink	-	382 CY	169 CY
Other	+/-		0 CY
TOTAL:		0 CY	0 CY

Note: A positive total indicates excess material is left after grading operations are complete. A negative total indicates a shortage of material exists. Additional calculations may be needed to determine if an adequate amount of suitable fill material is available to achieve desired grading.

EARTHWORK SUMMARY:
 COMMON EXCAVATION (P)(EV): 4944 CY
 TOPSOIL STRIP INPLACE OF SPOILS (EV): 3864 CY
 A SHRINKAGE FACTOR OF 10% (EMBANKMENT) & 15% (TOPSOIL) WERE APPLIED TO ALL EXCAVATED MATERIAL WHEN DETERMINING SITE BALANCE.
 NO WARRANTY IS MADE OR IMPLIED AS TO THE ACCURACY, SUFFICIENCY, OR RELIABILITY OF THE SHRINKAGE FACTORS.
 13" OF TOPSOIL WAS ASSUMED IN ALL AREAS. REDRESSING OF DITCH SIDE SLOPE AREAS SHALL HAVE MINIMUM OF 4" OF TOPSOIL. TOPSOIL REDRESS IN AREAS OF FILL SHALL HAVE MINIMUM OF 15", UNLESS APPROVED BY THE ENGINEER.
 THE SITE BALANCE PROVIDED ABOVE IS FOR INFORMATIONAL PURPOSES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES PRIOR TO SUBMITTING A BID FOR THE PROJECT.

EARTHWORK SOUTH SIDE OF DITCH STA. 107+00 TO 128+00			
SITE BALANCE:		Embankment	Topsoil
Common Excavation	+	2082 CY	987 CY
Fill Material Needed	-	2446 CY	203 CY
Topsoil Strip (Fill Area)	+		3561 CY
Common Excavation for Topsoil Redress	+	636 CY	
Topsoil Redress(Fill Area)	-		3561 CY
Topsoil Redress(Side Slope Flattening)	-		636 CY
Common Excavation Shrink	-	272 CY	148 CY
Other	+/-		0 CY
TOTAL:		0 CY	0 CY

Note: A positive total indicates excess material is left after grading operations are complete. A negative total indicates a shortage of material exists. Additional calculations may be needed to determine if an adequate amount of suitable fill material is available to achieve desired grading.

EARTHWORK SUMMARY:
 COMMON EXCAVATION (P)(EV): 3705 CY
 TOPSOIL STRIP INPLACE OF SPOILS (EV): 3561 CY
 A SHRINKAGE FACTOR OF 10% (EMBANKMENT) & 15% (TOPSOIL) WERE APPLIED TO ALL EXCAVATED MATERIAL WHEN DETERMINING SITE BALANCE.
 NO WARRANTY IS MADE OR IMPLIED AS TO THE ACCURACY, SUFFICIENCY, OR RELIABILITY OF THE SHRINKAGE FACTORS.
 18" OF TOPSOIL WAS ASSUMED IN ALL AREAS. REDRESSING OF DITCH SIDE SLOPE AREAS SHALL HAVE MINIMUM OF 4" OF TOPSOIL. TOPSOIL REDRESS IN AREAS OF FILL SHALL HAVE MINIMUM OF 18", UNLESS APPROVED BY THE ENGINEER.
 THE SITE BALANCE PROVIDED ABOVE IS FOR INFORMATIONAL PURPOSES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES PRIOR TO SUBMITTING A BID FOR THE PROJECT.

ESTIMATED QUANTITIES AND SCHEDULES

TITLE

RICE & STEELE COUNTIES JUDICIAL DITCH No. 6

RICE & STEELE COUNTIES MINNESOTA

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO. 22-25087

FILE NAME 26087 DETAILS

DRAWN BY KJH

DESIGNED BY BFB

REVIEWED BY BFB

ORIGINAL ISSUE DATE --/--

CLIENT PROJECT NO. -

SHEET **2** OF 27

DATE 11/14/24 LIC. NO. 59968

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DATE	DESCRIPTION	BY
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR SUPPLEMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BAILEY BOCCCHINO

Bailey Bocchino

DATE: 11/14/24 LIC. NO.: 59968

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PROJECT

RICE & STEELE COUNTIES JUDICIAL DITCH No. 6

RICE & STEELE COUNTIES MINNESOTA

DATE	REVISION SCHEDULE	DESCRIPTION	BY

PROJECT NO. 22-25087
FILE NAME 25087 WATERSHED
DRAWN BY KJH
DESIGNED BY BFB
REVIEWED BY BFB
ORIGINAL ISSUE DATE --/--
CLIENT PROJECT NO. --

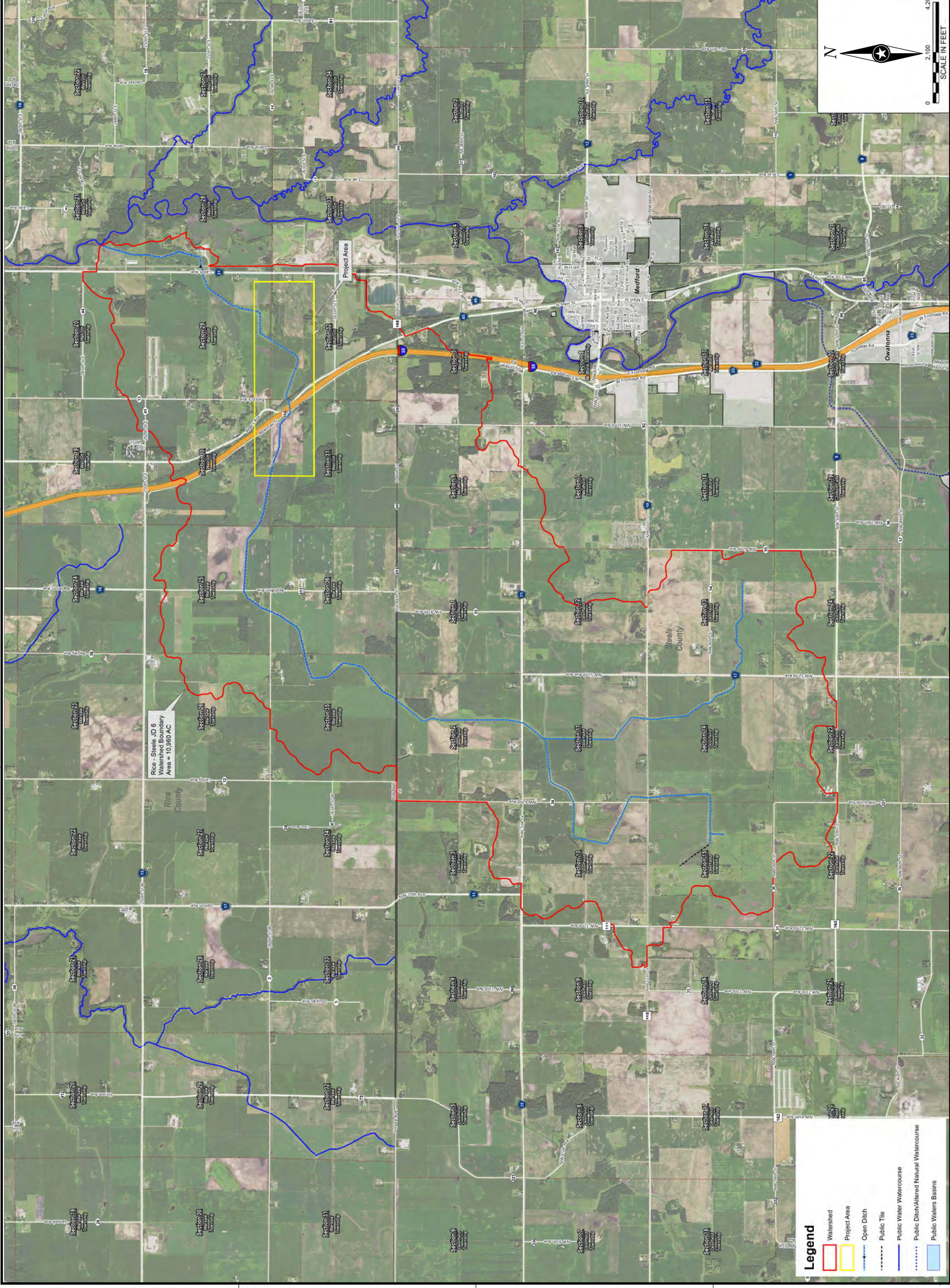
TITLE

WATERSHED MAP

SHEET

4

OF 27





THEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR SUPPLEMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BAILEY BOCCCHINO

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PROJECT

RICE & STEELE COUNTIES JUDICIAL DITCH No. 6

RICE & STEELE COUNTIES MINNESOTA

REVISION SCHEDULE	
DATE	DESCRIPTION

PROJECT NO.	22-25087
FILE NAME	25087 WATERSHED
DRAWN BY	KJH
DESIGNED BY	BFB
REVIEWED BY	BFB
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	

TITLE

ACCESS ROUTES

SHEET

5

OF 27



Note:
50-foot wide temporary construction access is allowed as note on map. Contractor will use best efforts to minimize crop damages. Access routes will be restored to condition prior to construction. Access route restoration is responsibility of contractor and incidental to the project.

Legend

- Haul Route
- Watershed
- Parcels
- Open Ditch
- Public Tile
- Public Water Watercourse
- Public Ditch/Altered Natural Watercourse
- Public Waters Basins

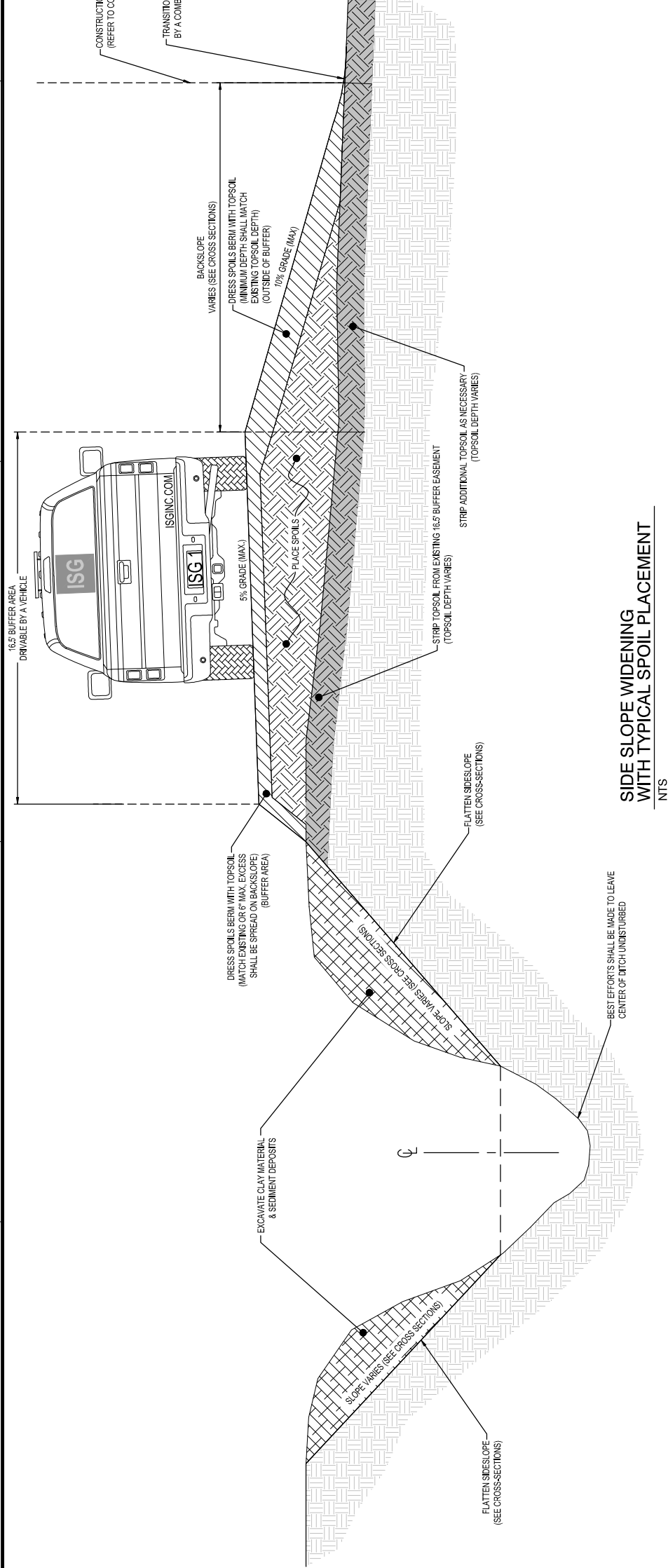


CONSTRUCTION EASEMENT BOUNDARY
(REFER TO CONSTRUCTION PLANS)

TRANSITION SHALL BE TRAVERSABLE
BY A COMBINE WITH ATTACHMENT

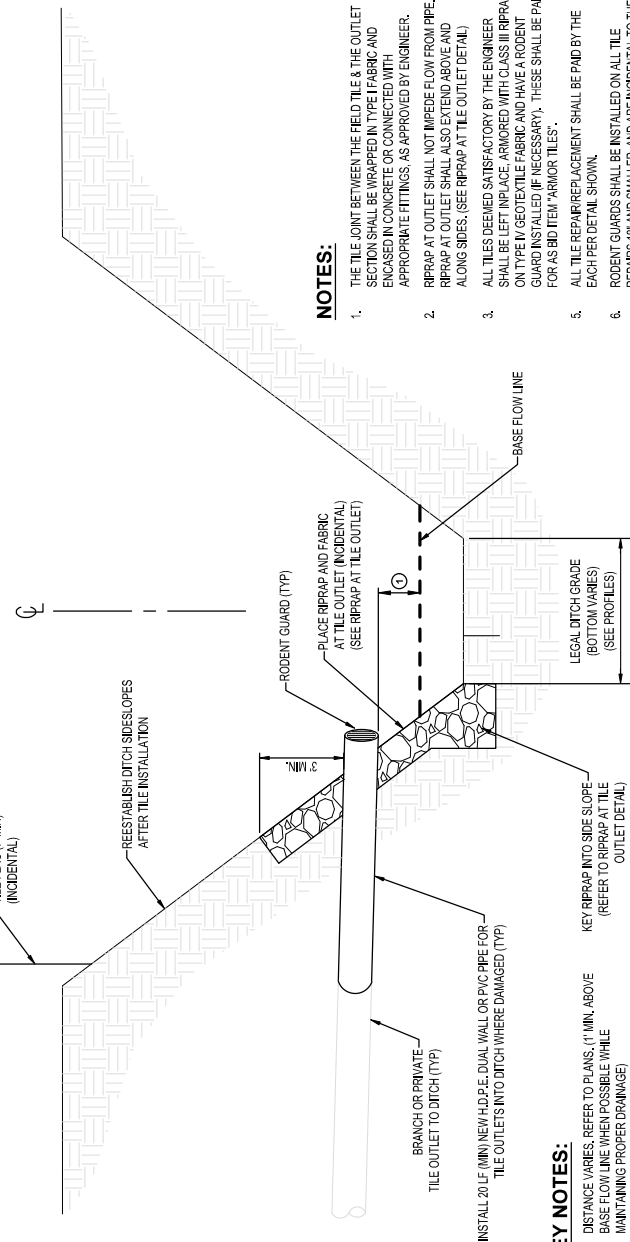
NOTES:

- REFER TO PLANS AND DETAILS FOR CLEANING, DEEPENING, WIDENING, AND NEW CONSTRUCTION.
- SPOIL PLACEMENT AND LEVELING SHALL BE INCIDENTAL TO APPROPRIATE DITCH EXCAVATION BID ITEM.
- TOPSOIL STRIPPING SHALL BE PAID FOR BY THE CY. REDRESSING SHALL BE INCIDENTAL TO THE STRIPPING. REFER TO PLAN FOR TOPSOIL STRIP AND DEPTHS.
- DO NOT OVER EXCAVATE DITCH BOTTOM OR SIDE SLOPES WHEN CLEANING SEDIMENT.
- TYPICAL DETAIL - REFER TO CROSS-SECTIONS FOR DIMENSIONS.
- BACKSLOPE SHALL BE DRIVABLE BY A COMBINE WITH AN ATTACHMENT.
- EXISTING AREAS WITH TOPSOIL ON BANKS SHALL BE REUSED TO DRESS SIDE SLOPES AS APPROVED BY ENGINEER IN FIELD. IF NO TOPSOIL EXISTS WITHIN 16.5' BUFFER EASEMENT, TOPSOIL SHALL BE STRIPPED OUTSIDE OF EASEMENT TO FULL DEPTH OF TOPSOIL.
- TYPICAL DITCH WIDENING INCLUDES EXCAVATION OF SEDIMENT DEPOSITS AND CLAY MATERIAL, WHICH INCLUDES RESLOPING OF THE DITCH BANK IF NECESSARY. THE WORK WILL BE PAID FOR BY THE CUBIC YARD.
- DITCH SPOILS SHALL BE PLACED IN THE DESIGNATED FILL AREAS UNLESS OTHERWISE APPROVED BY THE ENGINEER. DIMENSIONS.
- TYPICAL DETAIL - REFER TO CROSS-SECTIONS FOR DIMENSIONS.
- DITCH BANK SEEDING MUST OCCUR WITHIN 2 DAYS OF CONSTRUCTION.
- BEST EFFORTS SHALL BE MADE TO LEAVE CENTER OF DITCH UNDISTURBED.



SIDE SLOPE WIDENING WITH TYPICAL SPOIL PLACEMENT
NTS

NOTE: ONLY LABELED TILE OUTLETS AND FIELD INTAKES SHALL BE REPAIRED OR ARMORED



NOTES:

- THE TILE JOINT BETWEEN THE TILE & THE OUTLET SECTION SHALL BE WRAPPED IN TYPE I FABRIC AND ENCASED IN CONCRETE OR CONNECTED WITH APPROPRIATE FITTINGS, AS APPROVED BY ENGINEER.
- RIPRAP AT OUTLET SHALL NOT IMPED FLOW FROM PIPE. RIPRAP AT OUTLET SHALL ALSO EXTEND ABOVE AND ALONG SIDES. (SEE RIPRAP AT TILE OUTLET DETAIL).
- ALL TILES DEEMED SATISFACTORY BY THE ENGINEER SHALL BE LEFT IN PLACE. ARMORED WITH CLASS III RIPRAP ON TYPE IV GEOTEXTILE FABRIC AND HAVE A RODENT GUARD INSTALLED (IF NECESSARY). THESE SHALL BE PAID FOR AS BID ITEM "ARMOR TILES".
- ALL TILE REPAIR REPLACEMENT SHALL BE PAID BY THE EACH PER DETAIL SHOWN.
- RODENT GUARDS SHALL BE INSTALLED ON ALL TILE REPAIRS: 18" AND SMALLER, AND ARE INCIDENTAL TO THE PAY ITEM.
- ALL FITTINGS TO CONNECT EXISTING TILE SHALL BE INCIDENTAL TO TILE OUTLET REPAIR.
- FENCE POST WITH 8" LONG PIECE OF PVC SUPPLIED OVER IT MAY BE SUBSTITUTED FOR THE TILE FLAG.
- REFER TO OPEN DITCH NOTES FOR ACCEPTABLE OUTLET MATERIAL TYPES.
- SEEDING MUST OCCUR WITHIN 2 DAYS OF CONSTRUCTION. PAID BY SEEDING QUANTITY.

TYPICAL TILE OUTLET REPAIR
NTS

KEY NOTES:

- DISTANCE VARIES. REFER TO PLANS. (1" MIN. ABOVE BASE FLOW LINE WHEN POSSIBLE WHILE MAINTAINING PROPER DRAINAGE)
- 1" MIN. ABOVE

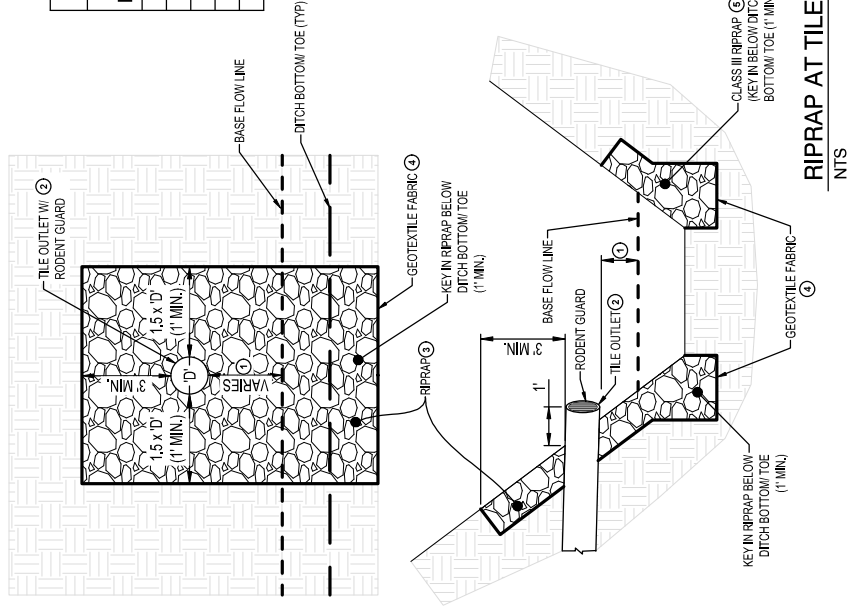
DIMENSIONS	
NOMINAL PIPE DIA ('D')	RIPRAP ③
UNDER 12"	4 CY
12-15"	6 CY
18" TO 36"	9 CY
42" TO 60"	10 CY
ABOVE 60"	12 CY

KEY NOTES:

- DISTANCE VARIES. REFER TO PLANS AND DETAILS. (1" MIN. ABOVE BASE FLOW LINE)
- SIZE AND TYPE VARIES. REFER TO PLANS AND SCHEDULES.
- RIPRAP SHALL BE MIDDOT CLASS III UNLESS OTHERWISE SPECIFIED. THE CUBIC YARD LISTED IN THE TABLE SHALL BE INCIDENTAL TO THE RESPECTIVE BID ITEM. ADDITIONAL RIPRAP SHALL BE PAID FOR BY THE CUBIC YARD AS DETERMINED BY ENGINEER.
- GEOTEXTILE FABRIC SHALL BE MIDDOT TYPE IV. (INCIDENTAL TO RESPECTIVE BID ITEM)
- RIPRAP SHALL BE REQUIRED ON THE OPPOSITE BANK FOR TILE OUTLET'S 24-INCHES AND LARGER OR AS APPROVED BY THE ENGINEER. ADDITIONAL RIPRAP SHALL BE PAID FOR BY THE CUBIC YARD.

NOTES:

- RIPRAP SHALL NOT IMPED FLOW FROM THE TILE OUTLET OR THE RECEIVING BODY.
- 'D' REFERS TO PIPE INSIDE DIAMETER



DETAILS

SHEET

6

OF 27

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DATE: 11/14/24 I.C. NO.: 59988
Paul J. Bocchino
 BAILEY BOCCCHINO

PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PROJECT

**RICE & STEELE
COUNTIES
JUDICIAL DITCH
No. 6**

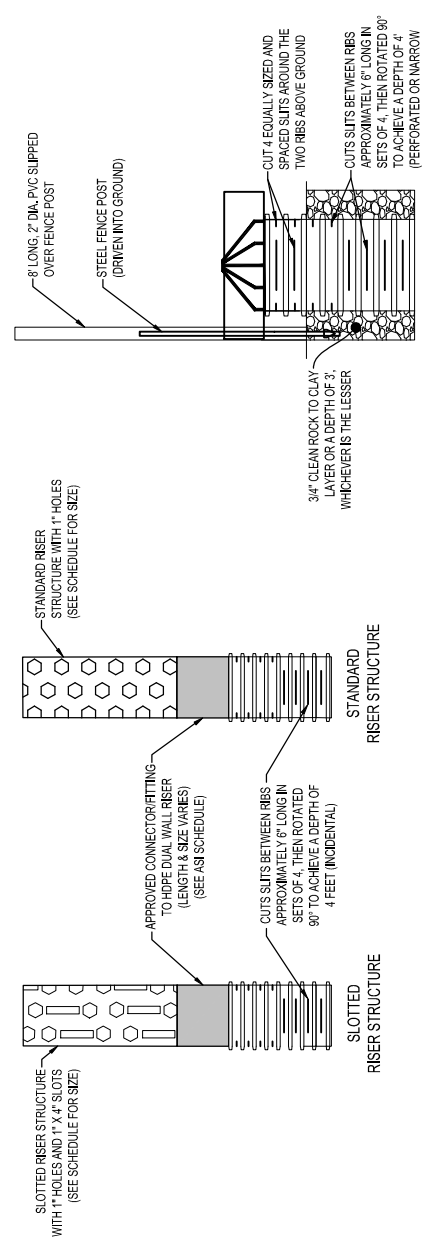
RICE & STEELE COUNTIES MINNESOTA

DATE	REVISION	SCHEDULE	DESCRIPTION	BY

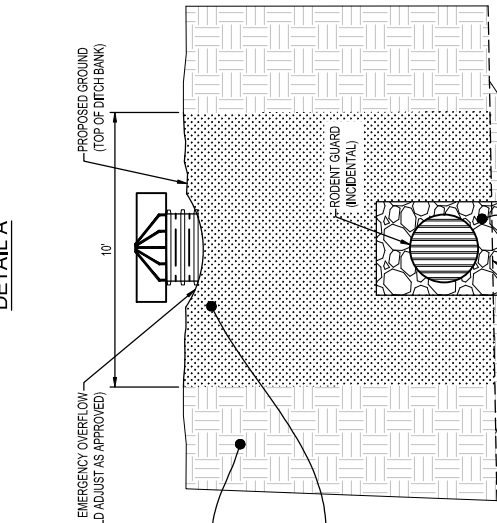
PROJECT NO.	22-25087
FILE NAME	25087 DETAILS
DRAWN BY	KJH
DESIGNED BY	BPB
REVIEWED BY	BPB
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	--

TITLE

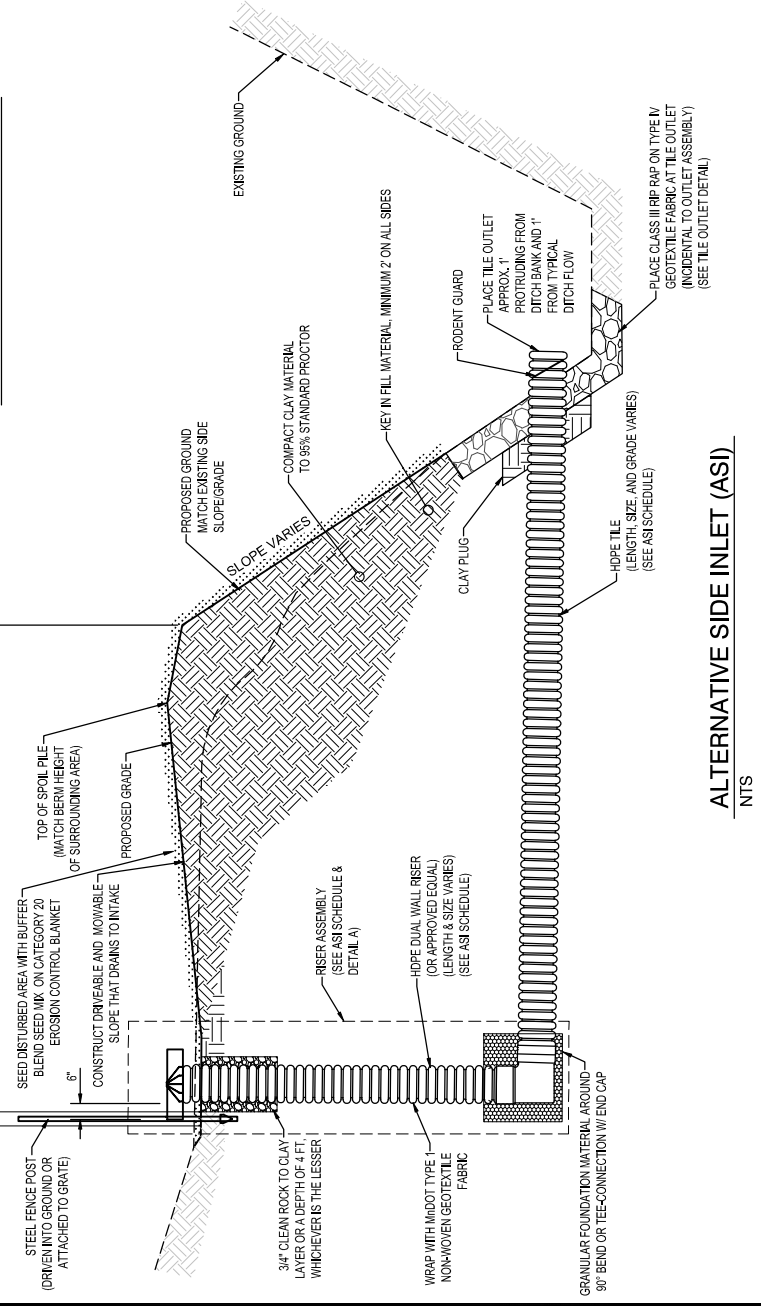
SHEET



DETAIL A

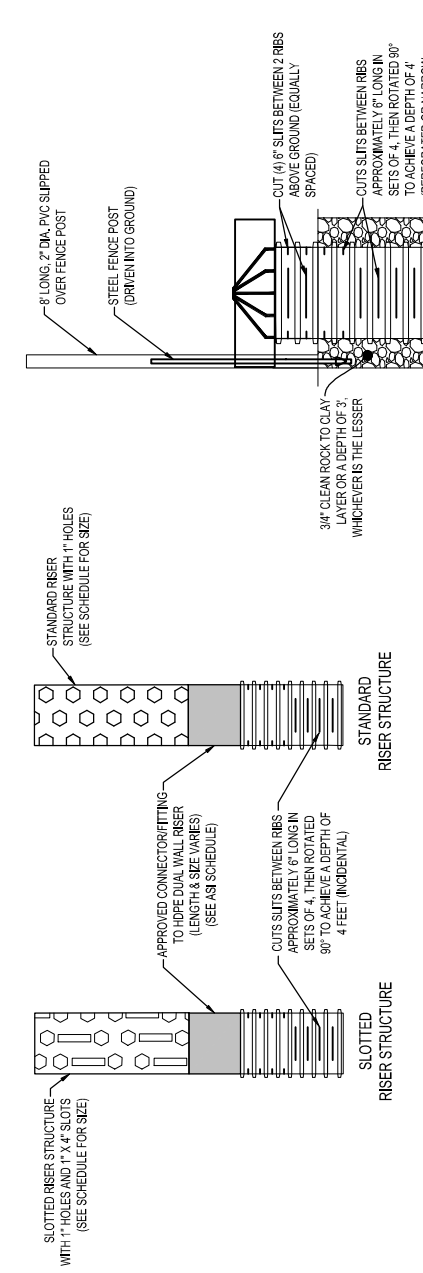


ELEVATION FROM OPEN DITCH

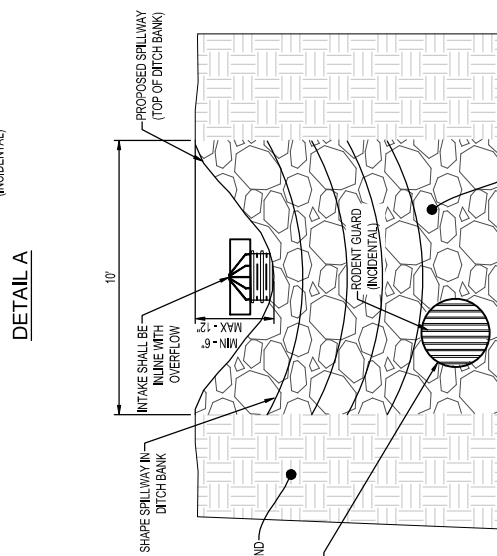


ALTERNATIVE SIDE INLET (ASI)

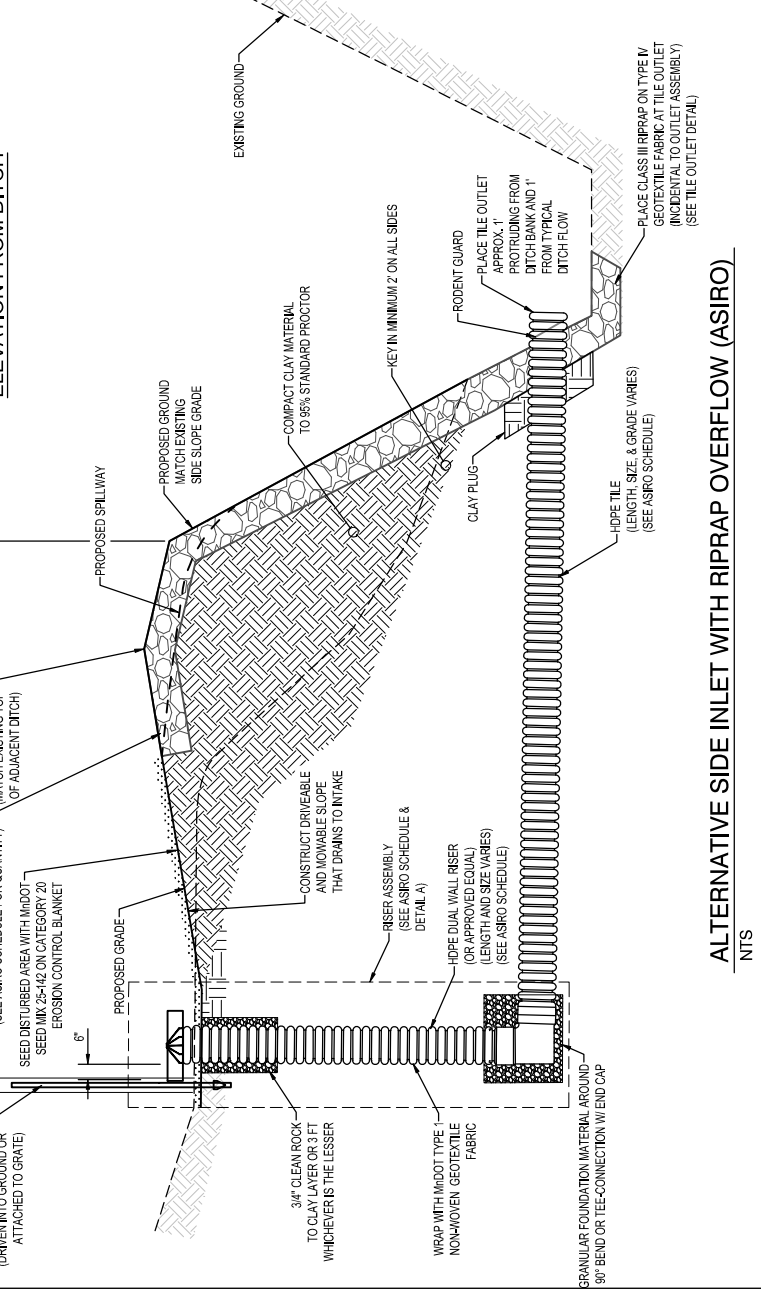
NTS



DETAIL A



ELEVATION FROM DITCH



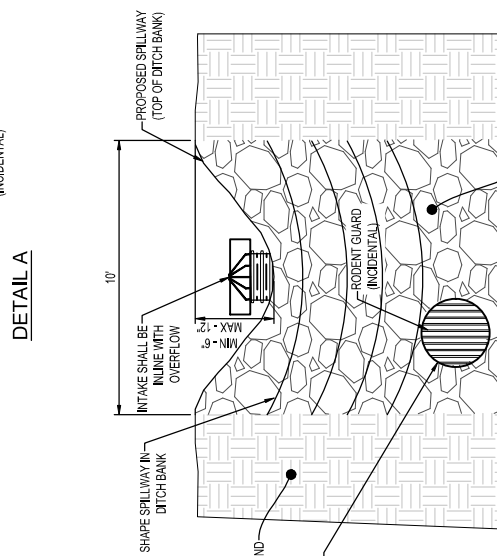
ALTERNATIVE SIDE INLET WITH RIPRAP OVERFLOW (ASIRO)

NTS

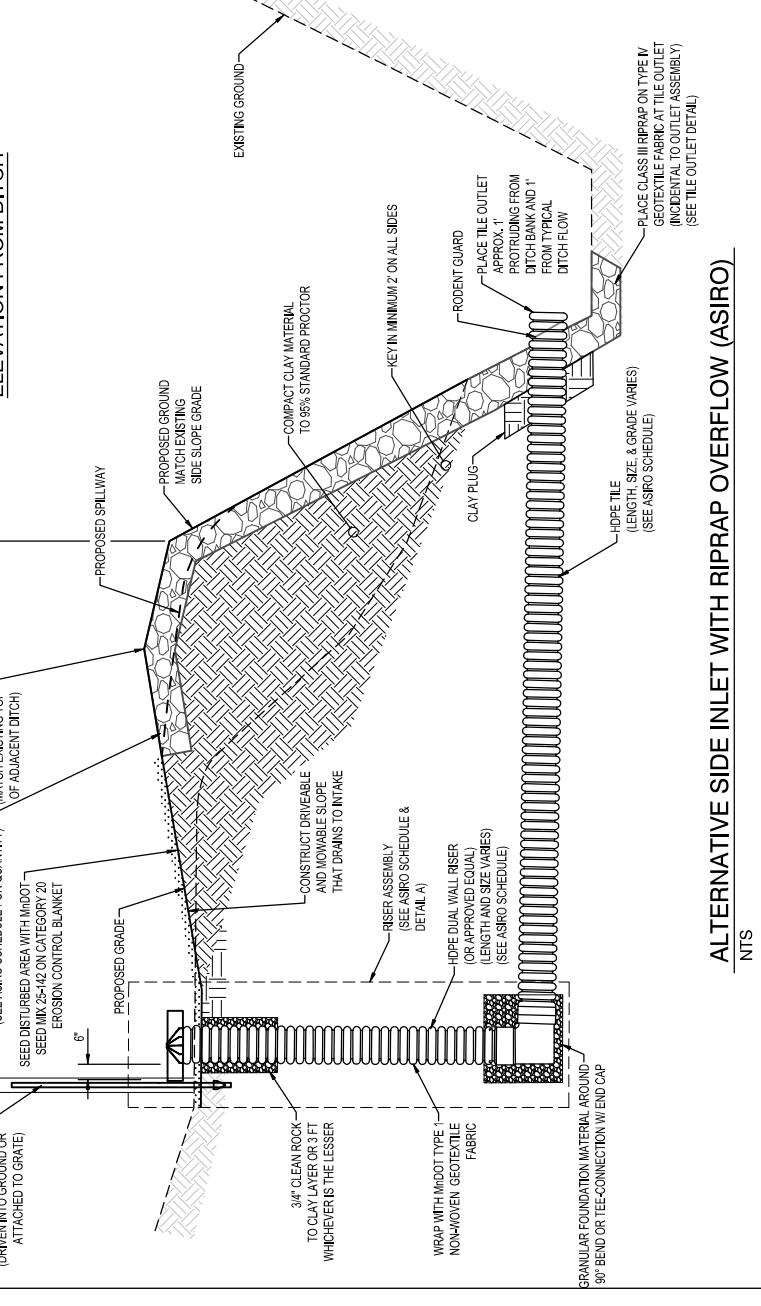
NOTES:

1. INTAKE TYPE AND TILE SIZE VARIES PER ASIRO, (SEE SCHEDULE)
2. RISER ASSEMBLY SHALL BE A SEPARATE PAY ITEM THAN THE OUTLET ASSEMBLY.
3. ALL DISTURBED AREAS WITHIN BUFFER EASEMENT SHALL BE SEED WITH M/DOT SEED MIX 25-42 ON CATEGORY 20 EROSION CONTROL BLANKET, (INCIDENTAL)
4. ALL EFFORTS SHALL BE MADE TO SEPARATE SOIL TYPES. BACKFILL SHALL BE COMPACTED PRIOR TO PLACEMENT OF TOPSOIL. EXCEPT THE TOP TWO (2) FEET, FOR WHICH COMPACTION SHALL BE MINIMIZED TO THE EXTENT POSSIBLE. TOPSOIL SHALL BE PLACED TO A MINIMUM DEPTH OF 6\"/>

DETAIL A



ELEVATION FROM DITCH



ALTERNATIVE SIDE INLET WITH RIPRAP OVERFLOW (ASIRO)

NTS

NOTES:

1. INTAKE TYPE AND TILE SIZE VARIES PER ASIRO, (SEE SCHEDULE)
2. RISER ASSEMBLY SHALL BE A SEPARATE PAY ITEM THAN THE OUTLET ASSEMBLY.
3. ALL DISTURBED AREAS WITHIN BUFFER EASEMENT SHALL BE SEED WITH M/DOT SEED MIX 25-42 ON CATEGORY 20 EROSION CONTROL BLANKET, (INCIDENTAL)
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THEY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BAILEY BOCCCHINO

Bailey Bocchino

DATE: 11/14/24 I.E. NO.: 59968

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PROJECT

RICE & STEELE COUNTIES JUDICIAL DITCH No. 6

RICE & STEELE COUNTIES MINNESOTA

REVISION SCHEDULE	
DATE	DESCRIPTION

PROJECT NO.	22-25087
FILE NAME	25087 DETAILS
DRAWN BY	KJH
DESIGNED BY	BFB
REVIEWED BY	BFB
ORIGINAL ISSUE DATE	-/-/-
CLIENT PROJECT NO.	-

TITLE

DETAILS

SHEET



THEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR SUPPLEMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BAILEY BOCCCHINO

Bailey Bocchino

DATE: 11/14/24 LIC. NO. 59968

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PROJECT

**RICE & STEELE
COUNTIES
JUDICIAL DITCH
No. 6**

RICE & STEELE COUNTIES MINNESOTA

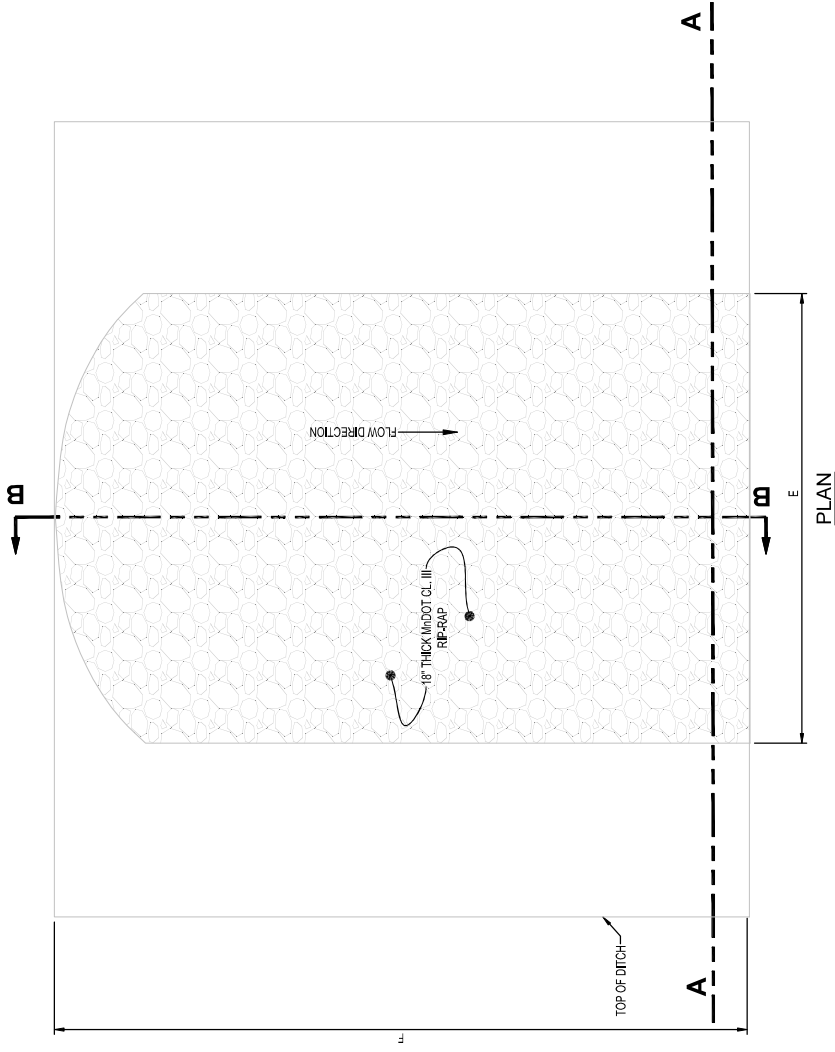
REVISION SCHEDULE	
DATE	DESCRIPTION

PROJECT NO. 22-25087
 FILE NAME 25087 DETAILS
 DRAWN BY KJH
 DESIGNED BY BFB
 REVIEWED BY BFB
 ORIGINAL ISSUE DATE --/--
 CLIENT PROJECT NO. .

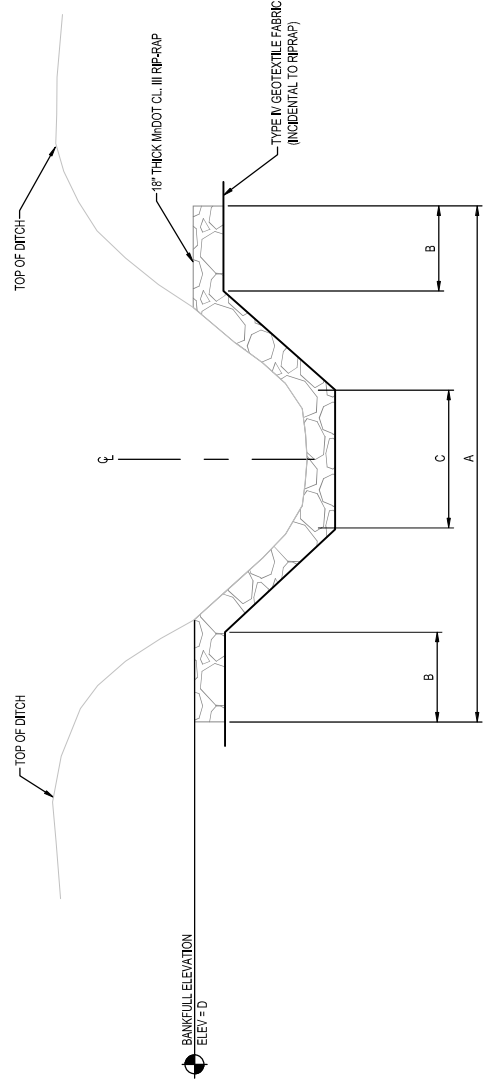
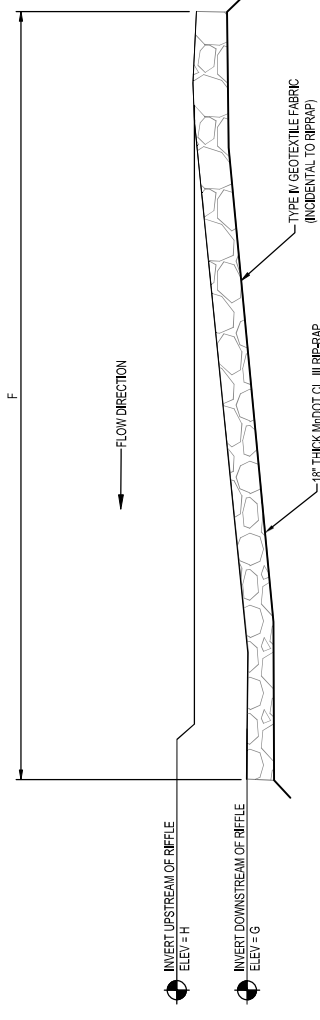
TITLE

DETAILS

SHEET



SECTION B-B



ID	BRANCH (LOCATION)	STATION	Upstream					Downstream			Riprap Class III Riprap (CY)
			A Riffle Width (ft)	B Key-in Width (ft)	C Channel Bottom Width (ft)	D Bankfull Elevation (MSL)	E Bankfull Width (ft)	F Riffle Length (ft)	G Downstream Elevation (MSL)	H Upstream Elevation (MSL)	
1	Main	86+20	40	5	12	1070.00	30	20	1063.50	1064.42	28
2	Main	106+90	40	5	12	1071.00	30	50	1065.10	1067.98	66
3	Main	119+40	40	5	12	1073.00	30	30	1067.70	1069.38	38

RIPRAP RIFFLE
NTS



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DATE: 11/14/24 I.C. NO.: 59968
 PROJECT: RICE & STEELE COUNTRIES MINNESOTA

DESIGNED BY: KJH
 DRAWN BY: BFB
 REVIEWED BY: BFB
 ORIGINAL ISSUE DATE: --/--
 CLIENT PROJECT NO.: --

DETAILED CULVERT CROSSING

RICE & STEELE COUNTRIES MINNESOTA

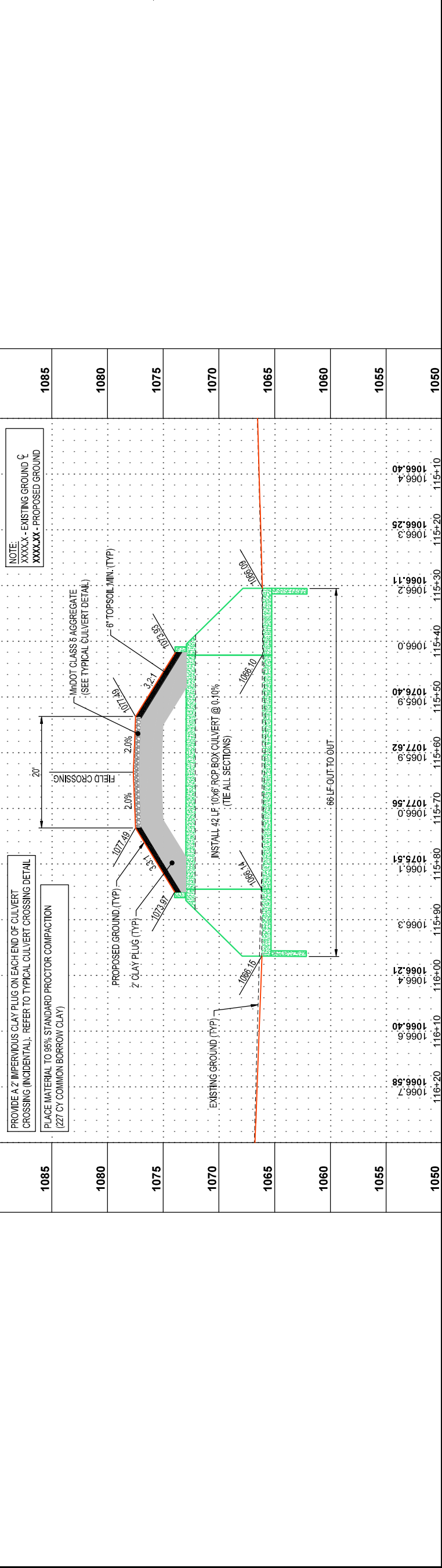
DATE	REVISION	DESCRIPTION	BY

PROJECT NO.: 22-25087
 FILE NAME: 25087 CROSSING DETAILS
 DRAWN BY: KJH
 DESIGNED BY: BFB
 REVIEWED BY: BFB
 ORIGINAL ISSUE DATE: --/--
 CLIENT PROJECT NO.: --

TITLE

DETAILED CULVERT CROSSING

SHEET



Station	Existing Ground (ft)	Proposed Ground (ft)
1085	1066.40	1066.40
1080	1066.25	1066.25
1075	1066.11	1066.11
1070	1066.00	1066.00
1065	1065.90	1065.90
1060	1065.82	1065.82
1055	1065.76	1065.76
1050	1065.62	1065.62
1045	1065.56	1065.56
1040	1065.51	1065.51
1035	1065.43	1065.43
1030	1065.33	1065.33
1025	1065.21	1065.21
1020	1065.14	1065.14
1015	1065.06	1065.06
1010	1065.00	1065.00
1005	1064.92	1064.92
1000	1064.88	1064.88
995	1064.82	1064.82
990	1064.78	1064.78
985	1064.74	1064.74
980	1064.70	1064.70
975	1064.66	1064.66
970	1064.62	1064.62
965	1064.58	1064.58
960	1064.54	1064.54
955	1064.50	1064.50
950	1064.46	1064.46
945	1064.42	1064.42
940	1064.38	1064.38
935	1064.34	1064.34
930	1064.30	1064.30
925	1064.26	1064.26
920	1064.22	1064.22
915	1064.18	1064.18
910	1064.14	1064.14
905	1064.10	1064.10
900	1064.06	1064.06
895	1064.02	1064.02
890	1063.98	1063.98
885	1063.94	1063.94
880	1063.90	1063.90
875	1063.86	1063.86
870	1063.82	1063.82
865	1063.78	1063.78
860	1063.74	1063.74
855	1063.70	1063.70
850	1063.66	1063.66
845	1063.62	1063.62
840	1063.58	1063.58
835	1063.54	1063.54
830	1063.50	1063.50
825	1063.46	1063.46
820	1063.42	1063.42
815	1063.38	1063.38
810	1063.34	1063.34
805	1063.30	1063.30
800	1063.26	1063.26
795	1063.22	1063.22
790	1063.18	1063.18
785	1063.14	1063.14
780	1063.10	1063.10
775	1063.06	1063.06
770	1063.02	1063.02
765	1062.98	1062.98
760	1062.94	1062.94
755	1062.90	1062.90
750	1062.86	1062.86
745	1062.82	1062.82
740	1062.78	1062.78
735	1062.74	1062.74
730	1062.70	1062.70
725	1062.66	1062.66
720	1062.62	1062.62
715	1062.58	1062.58
710	1062.54	1062.54
705	1062.50	1062.50
700	1062.46	1062.46
695	1062.42	1062.42
690	1062.38	1062.38
685	1062.34	1062.34
680	1062.30	1062.30
675	1062.26	1062.26
670	1062.22	1062.22
665	1062.18	1062.18
660	1062.14	1062.14
655	1062.10	1062.10
650	1062.06	1062.06
645	1062.02	1062.02
640	1061.98	1061.98
635	1061.94	1061.94
630	1061.90	1061.90
625	1061.86	1061.86
620	1061.82	1061.82
615	1061.78	1061.78
610	1061.74	1061.74
605	1061.70	1061.70
600	1061.66	1061.66
595	1061.62	1061.62
590	1061.58	1061.58
585	1061.54	1061.54
580	1061.50	1061.50
575	1061.46	1061.46
570	1061.42	1061.42
565	1061.38	1061.38
560	1061.34	1061.34
555	1061.30	1061.30
550	1061.26	1061.26
545	1061.22	1061.22
540	1061.18	1061.18
535	1061.14	1061.14
530	1061.10	1061.10
525	1061.06	1061.06
520	1061.02	1061.02
515	1060.98	1060.98
510	1060.94	1060.94
505	1060.90	1060.90
500	1060.86	1060.86
495	1060.82	1060.82
490	1060.78	1060.78
485	1060.74	1060.74
480	1060.70	1060.70
475	1060.66	1060.66
470	1060.62	1060.62
465	1060.58	1060.58
460	1060.54	1060.54
455	1060.50	1060.50
450	1060.46	1060.46
445	1060.42	1060.42
440	1060.38	1060.38
435	1060.34	1060.34
430	1060.30	1060.30
425	1060.26	1060.26
420	1060.22	1060.22
415	1060.18	1060.18
410	1060.14	1060.14
405	1060.10	1060.10
400	1060.06	1060.06
395	1060.02	1060.02
390	1060.00	1060.00
385	1060.00	1060.00
380	1060.00	1060.00
375	1060.00	1060.00
370	1060.00	1060.00
365	1060.00	1060.00
360	1060.00	1060.00
355	1060.00	1060.00
350	1060.00	1060.00
345	1060.00	1060.00
340	1060.00	1060.00
335	1060.00	1060.00
330	1060.00	1060.00
325	1060.00	1060.00
320	1060.00	1060.00
315	1060.00	1060.00
310	1060.00	1060.00
305	1060.00	1060.00
300	1060.00	1060.00
295	1060.00	1060.00
290	1060.00	1060.00
285	1060.00	1060.00
280	1060.00	1060.00
275	1060.00	1060.00
270	1060.00	1060.00
265	1060.00	1060.00
260	1060.00	1060.00
255	1060.00	1060.00
250	1060.00	1060.00
245	1060.00	1060.00
240	1060.00	1060.00
235	1060.00	1060.00
230	1060.00	1060.00
225	1060.00	1060.00
220	1060.00	1060.00
215	1060.00	1060.00
210	1060.00	1060.00
205	1060.00	1060.00
200	1060.00	1060.00
195	1060.00	1060.00
190	1060.00	1060.00
185	1060.00	1060.00
180	1060.00	1060.00
175	1060.00	1060.00
170	1060.00	1060.00
165	1060.00	1060.00
160	1060.00	1060.00
155	1060.00	1060.00
150	1060.00	1060.00
145	1060.00	1060.00
140	1060.00	1060.00
135	1060.00	1060.00
130	1060.00	1060.00
125	1060.00	1060.00
120	1060.00	1060.00
115	1060.00	1060.00
110	1060.00	1060.00
105	1060.00	1060.00
100	1060.00	1060.00
95	1060.00	1060.00
90	1060.00	1060.00
85	1060.00	1060.00
80	1060.00	1060.00
75	1060.00	1060.00
70	1060.00	1060.00
65	1060.00	1060.00
60	1060.00	1060.00
55	1060.00	1060.00
50	1060.00	1060.00
45	1060.00	1060.00
40	1060.00	1060.00
35	1060.00	1060.00
30	1060.00	1060.00
25	1060.00	1060.00
20	1060.00	1060.00
15	1060.00	1060.00
10	1060.00	1060.00
5	1060.00	1060.00
0	1060.00	1060.00

NOTE:
 XXXX.X - EXISTING GROUND Ç
 XXXX.XX - PROPOSED GROUND

PROVIDE 2 IMPERVIOUS CLAY PLUG ON EACH END OF CULVERT CROSSING (INCIDENTAL). REFER TO TYPICAL CULVERT CROSSING DETAIL

PLACE MATERIAL TO 98% STANDARD PROCTOR COMPACTION (227 CY COMMON BORROW CLAY)

MIDDOT CLASS 5 AGGREGATE (SEE TYPICAL CULVERT DETAIL)

6" TOPSOIL MIN. (TYP)

INSTALL 42 LF 10" RCP BOX CULVERT @ 0.10% (TYP ALL SECTIONS)

2" CLAY PLUG (TYP)

EXISTING GROUND (TYP)

PROPOSED GROUND (TYP)

FIELD CROSSING

20'

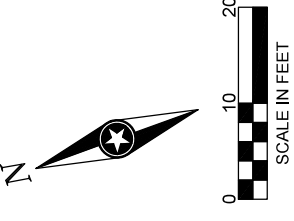
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2.0%

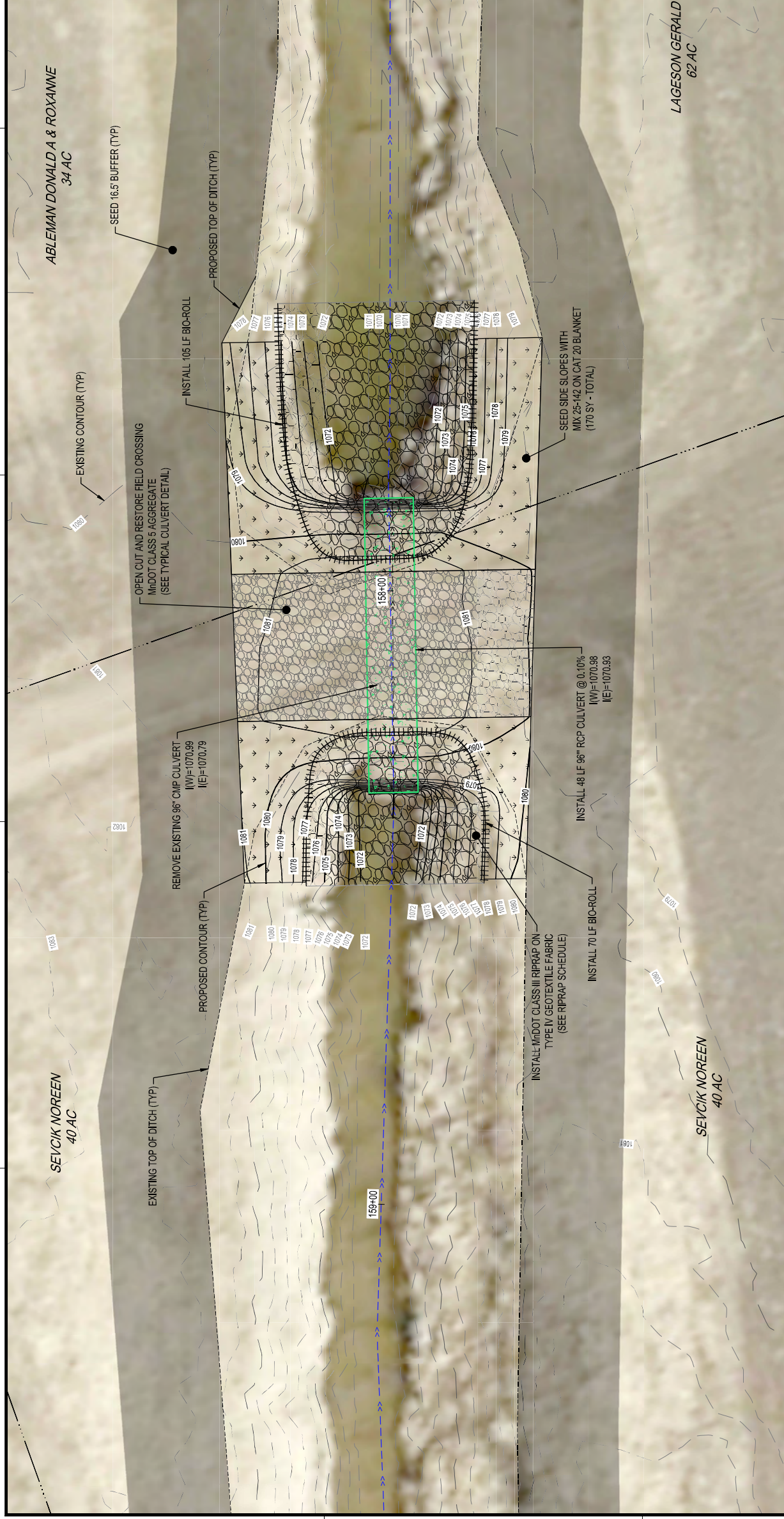
3:2:1

3:2:1

66 LF. QUIT TO QUIT



ABLEMAN DONALD A & ROXANNE
34 AC



EXISTING CONTOUR (TYP)

REMOVE EXISTING 96" CIP CULVERT
(W)=1070.99
(E)=1070.79

INSTALL 70 LF BIO-ROLL

INSTALL 105 LF BIO-ROLL

INSTALL MIDDOT CLASS III RIPRAP ON
TYPE IV GEOTEXTILE FABRIC
(SEE RIPRAP SCHEDULE)

SEED SIDE SLOPES WITH
MIX 25-142 ON CAT 20 BLANKET
(170 SY - TOTAL)

INSTALL 48 LF 96" RCP CULVERT @ 0.10%
(W)=1070.98
(E)=1070.93

SEED OUT AND RESTORE FIELD CROSSING
MIDDOT CLASS 5 AGGREGATE
(SEE TYPICAL CULVERT DETAIL)

OPEN OUT AND RESTORE FIELD CROSSING
MIDDOT CLASS 5 AGGREGATE
(SEE TYPICAL CULVERT DETAIL)

PROPOSED CONTOUR (TYP)

SEED 16.5 BUFFER (TYP)

EXISTING TOP OF DITCH (TYP)

PROPOSED TOP OF DITCH (TYP)

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BAILEY BOCCCHINO
Bailey Boccchino

DATE: 11/14/24 LIC. NO.: 59968

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PROJECT

RICE & STEELE COUNTIES JUDICIAL DITCH No. 6

RICE & STEELE COUNTIES MINNESOTA

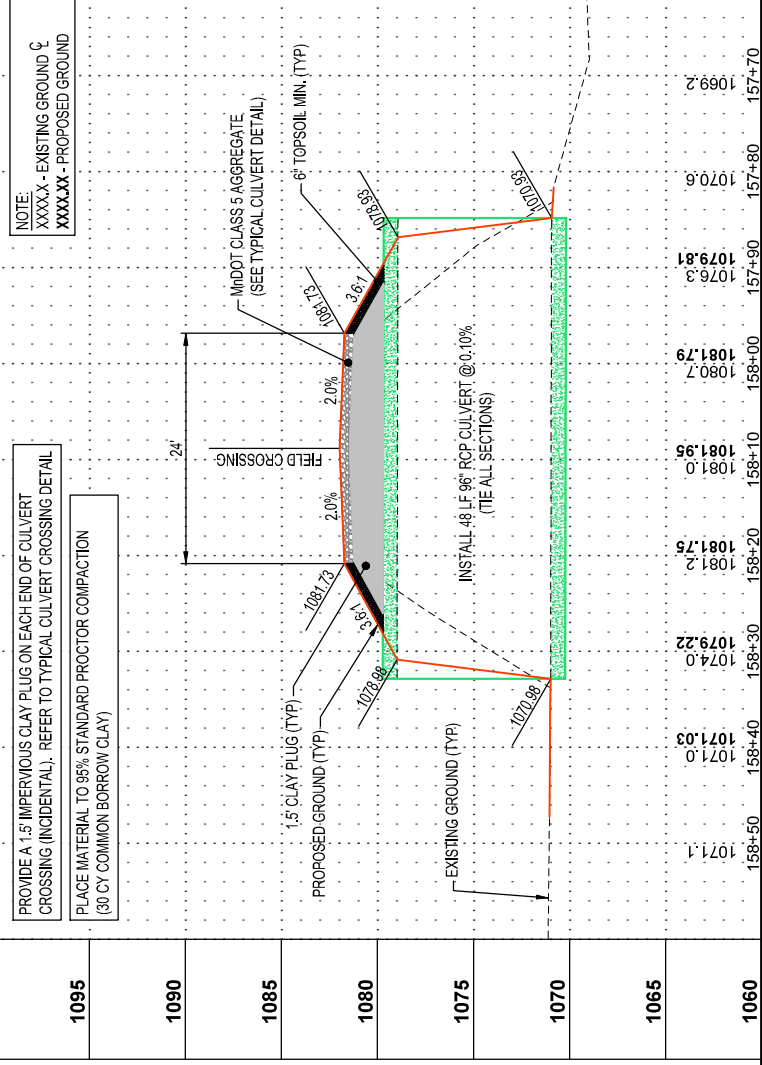
DATE	REVISION SCHEDULE DESCRIPTION	BY

PROJECT NO.	22-25087
FILE NAME	25087 CROSSING DETAILS
DRAWN BY	KJH
DESIGNED BY	BFB
REVIEWED BY	BFB
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

TITLE

DETAILED CULVERT CROSSING

SHEET





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PROJECT:

RICE & STEELE COUNTIES JUDICIAL DITCH No. 6

RICE & STEELE COUNTIES, MINNESOTA

DATE	BY	DESCRIPTION

PROJECT NO.	22-25087
FILE NAME	25087 MAINLINE PROFILES
DRAWN BY	KJH
DESIGNED BY	BFB
REVIEWED BY	BFB
ORIGINAL ISSUE DATE	—/—/—
CLIENT PROJECT NO.	

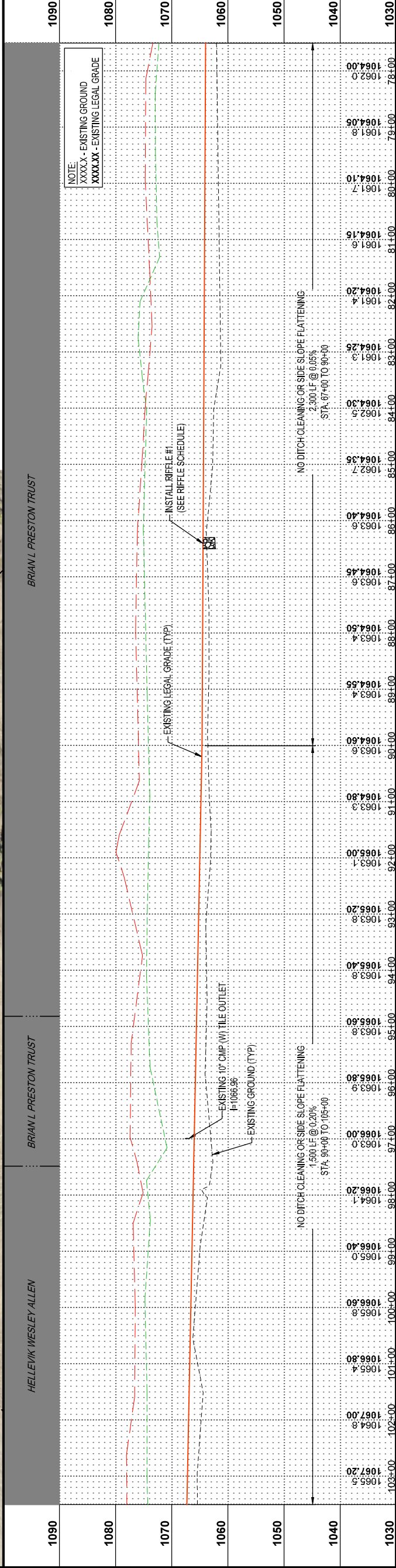
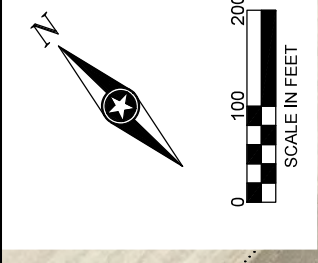
TITLE

PLAN - PROFILE MAILLINE

SHEET

13

OF 27



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**RICE & STEELE
 COUNTIES
 JUDICIAL DITCH
 No. 6**

RICE & STEELE COUNTIES MINNESOTA

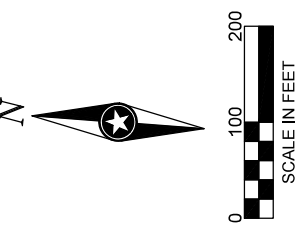
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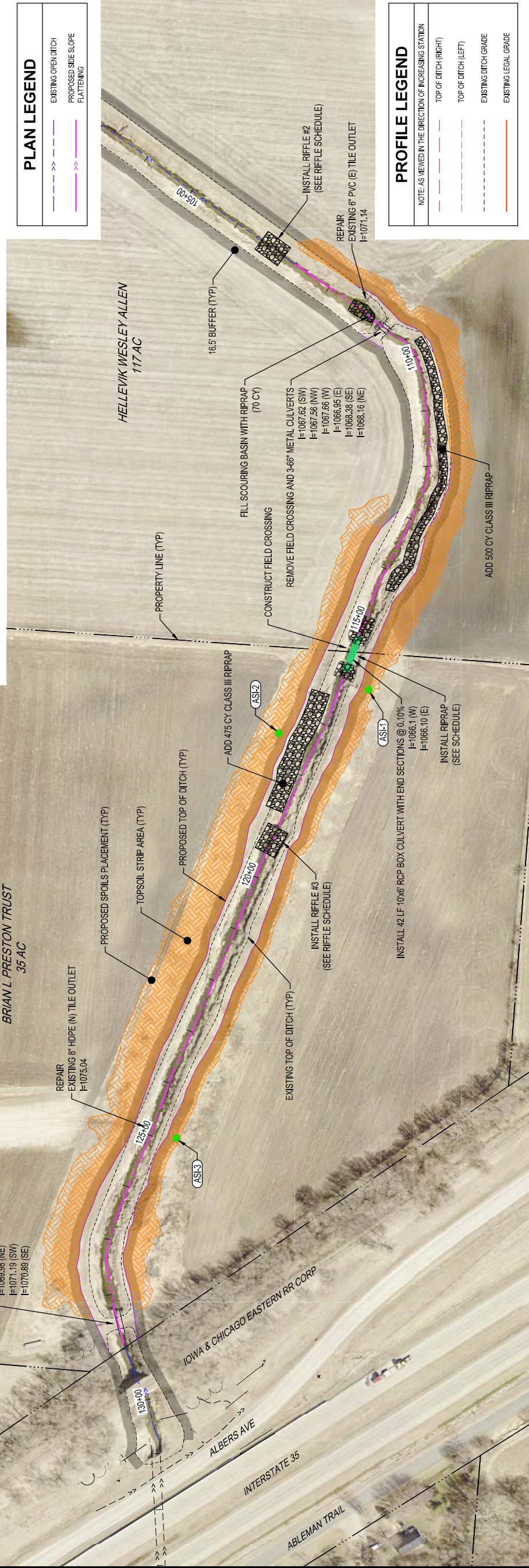
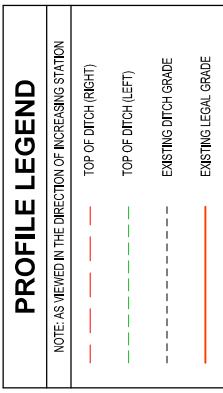
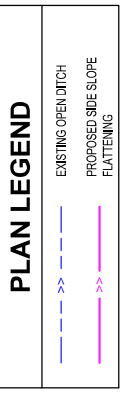
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**PLAN - PROFILE
 MAILINE**

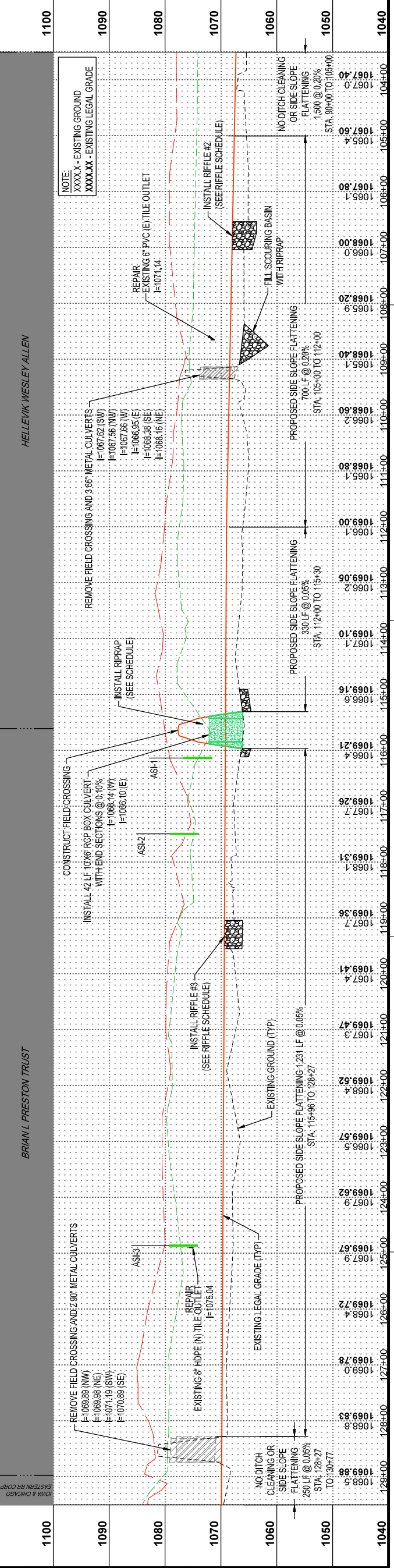
SHEET



Land Owner (AC)	Side of Ditch	Lost Damages		Permanent Damages		Temporary Damages	
		SF	AC	SF	AC	SF	AC
Hellevik, Wesley Allen (117 AC)	N	11681.89	0.27	3910.72	0.09	12518.06	0.29
Hellevik, Wesley Allen (117 AC)	S	19598.75	0.45	3113.81	0.07	37349.09	0.86
Brian L Preston Trust (35 AC)	N	17574.17	0.79	15850.69	0.36	83053.93	1.91
Brian L Preston Trust (35 AC)	S	5203.33	0.12	14529.38	0.33	35464.47	0.81
HELLEVIK TOTAL:		31280.64	0.72	7024.52	0.16	49867.16	1.14
PRESTON TRUST TOTAL:		17727.50	0.41	30380.07	0.70	118518.40	2.72
TOTAL:		49008.13	1.13	37404.60	0.86	168385.55	3.87



NOTES:
 PREFERENCE SHALL BE GIVEN TO LANDOWNERS TO HAUL BORROW OFFSITE. CONTRACTOR WOULD BE RESPONSIBLE FOR COORDINATING WITH LANDOWNER AND STOCKPILING ON-SITE. IT IS THE RESPONSIBILITY OF THE LANDOWNER TO HAUL MATERIALS OFF-SITE. CONTRACTOR WILL ONLY BE PAID FOR COMPLETED QUANTITIES FOR TOP SOIL STRIP AND PLACE SPOILS.
 PREFERENCE SHALL BE GIVEN TO LANDOWNER TO SALVAGE AND HAUL 6\"/>





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RICE & STEELE COUNTIES MINNESOTA

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REVIEWED BY	BFB
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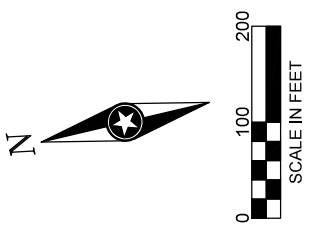
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**PLAN - PROFILE
 MAILINE**

SHEET

15

OF 27



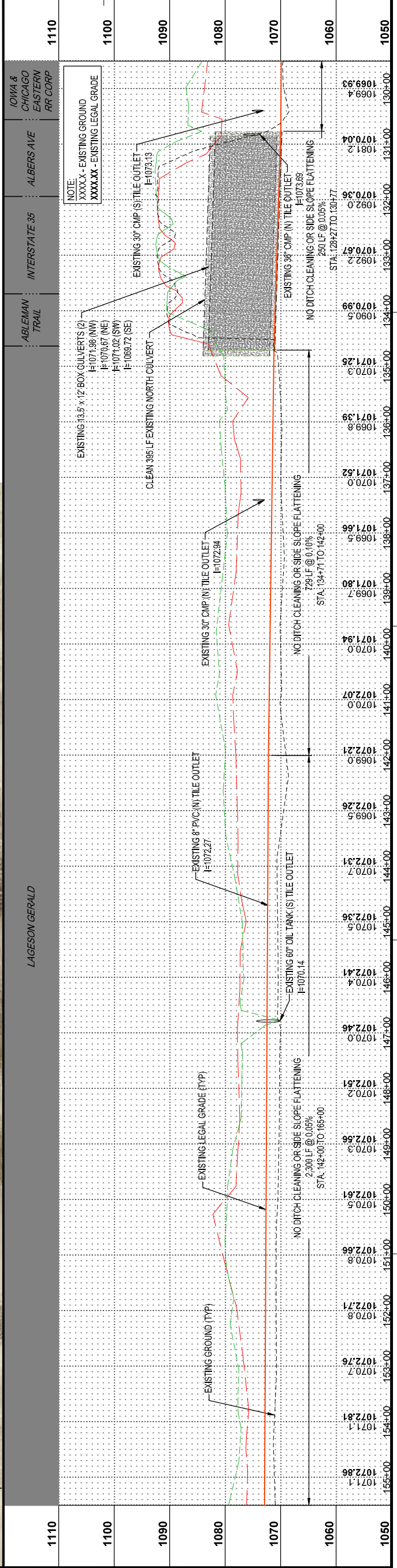
PROFILE LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

- TOP OF DITCH (RIGHT)
- TOP OF DITCH (LEFT)
- EXISTING DITCH GRADE
- EXISTING LEGAL GRADE

PLAN LEGEND

- EXISTING OPEN DITCH
- PROPOSED SIDE SLOPE FLATTENING





THESE PLANS AND SPECIFICATIONS OR
 SUPPLEMENTAL SPECIFICATIONS OR
 ANY PART THEREOF SHALL BE VOID
 UNLESS THEY ARE APPROVED AND
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RICE & STEELE COUNTIES JUDICIAL DITCH No. 6

RICE & STEELE COUNTIES MINNESOTA

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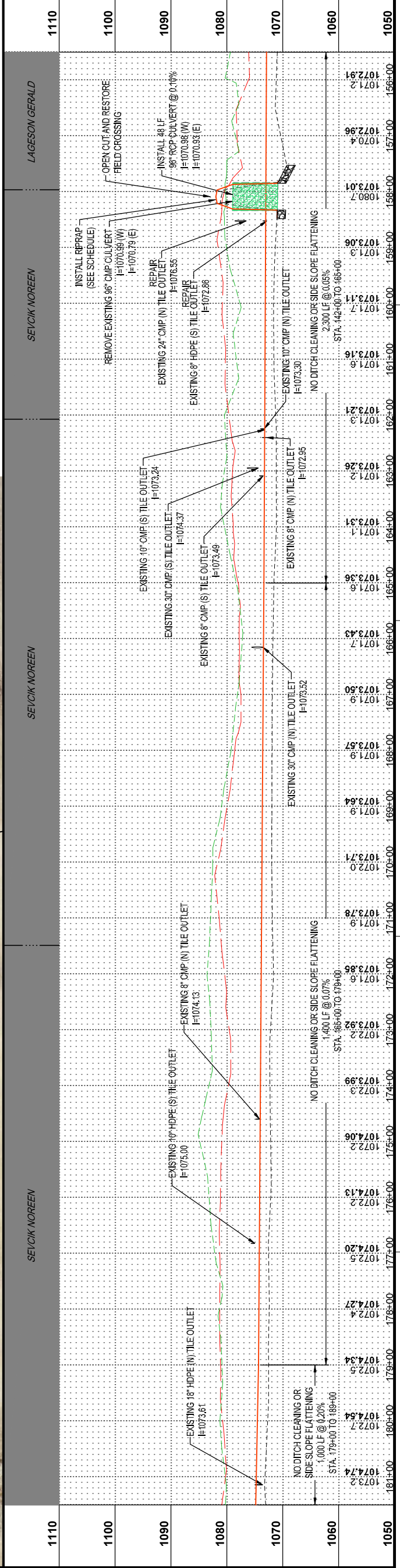
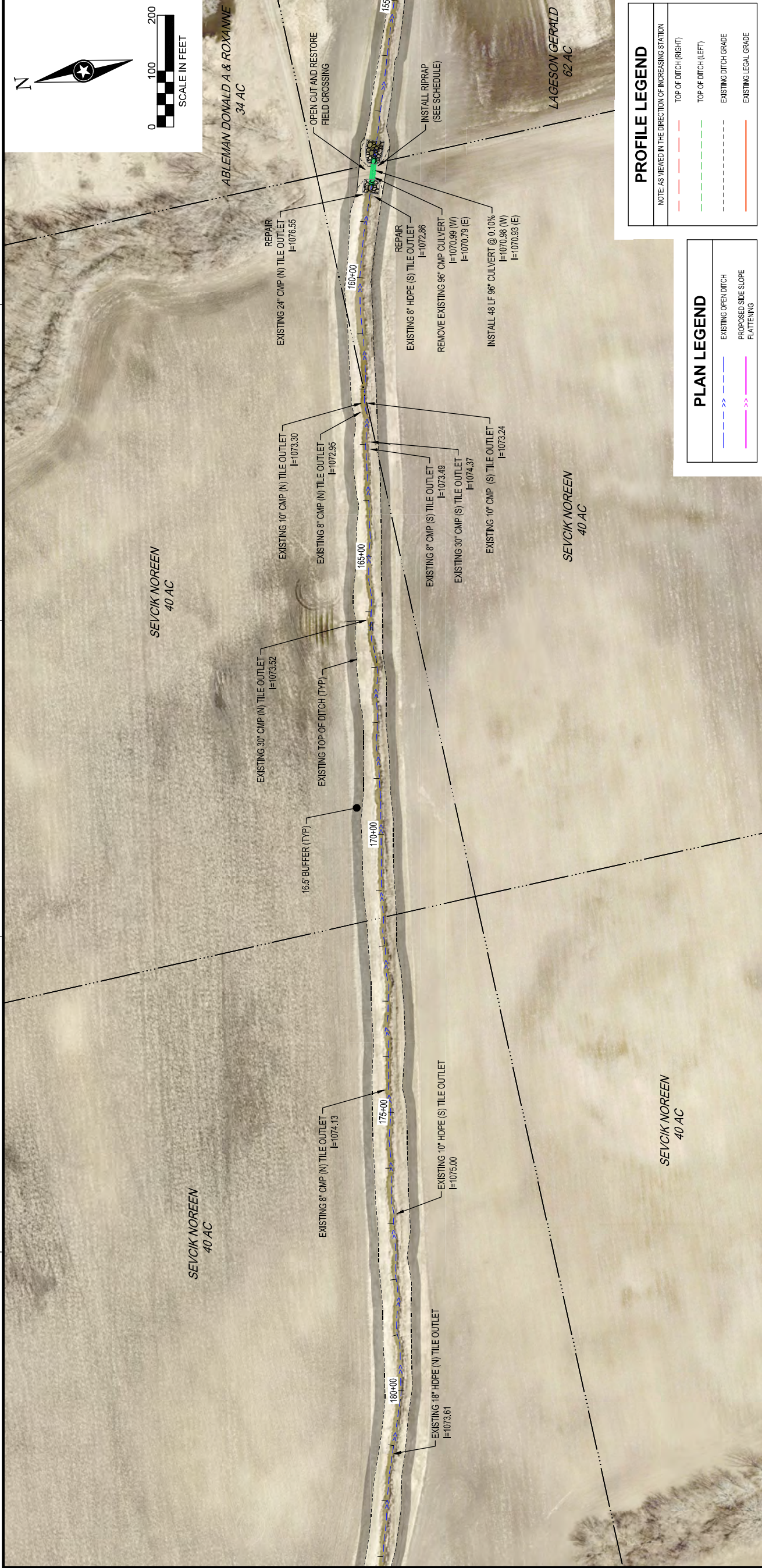
TITLE

PLAN - PROFILE MAILINE

SHEET

16

OF 27



PROFILE LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

- TOP OF DITCH (RIGHT)
- TOP OF DITCH (LEFT)
- EXISTING DITCH GRADE
- EXISTING LEGAL GRADE

PLAN LEGEND

- EXISTING OPEN DITCH
- PROPOSED SIDE SLOPE FLATTENING



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RICE & STEELE COUNTIES MINNESOTA

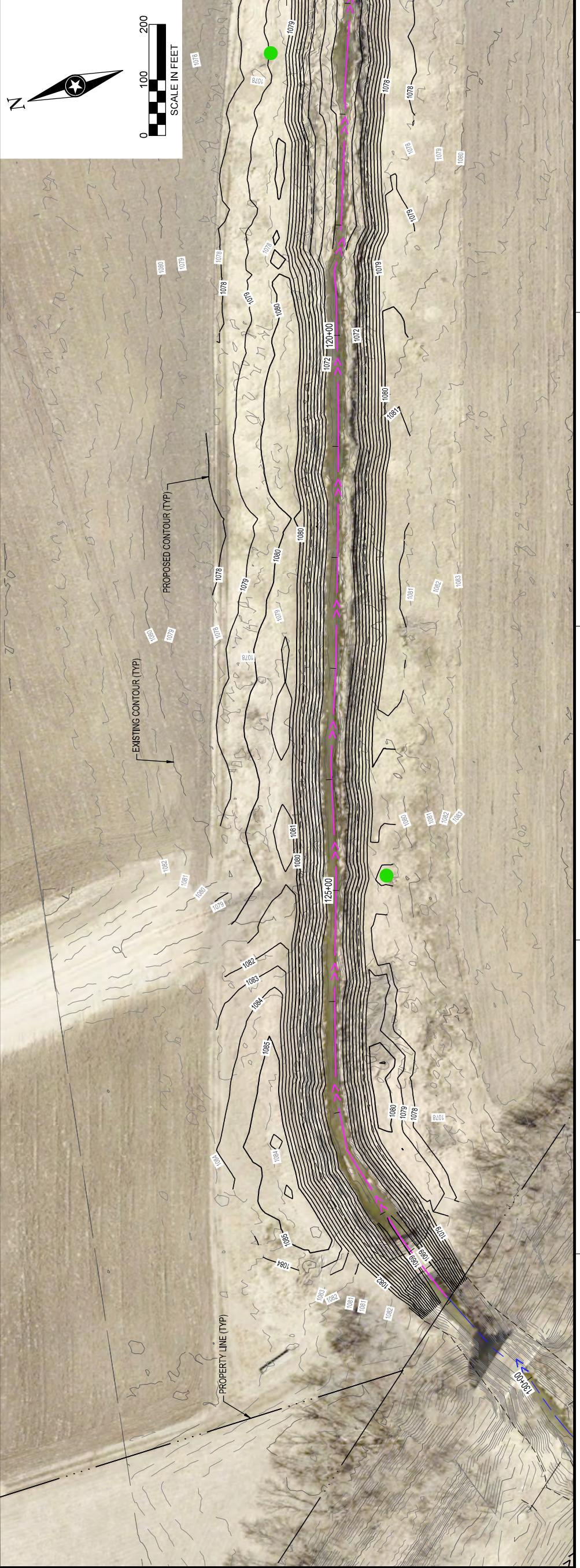
REVISION SCHEDULE	
DATE	DESCRIPTION

PROJECT NO.	22-25087
FILE NAME	25087 GRADING
DRAWN BY	KJH
DESIGNED BY	BFB
REVIEWED BY	BFB
ORIGINAL ISSUE DATE	11/14
CLIENT PROJECT NO.	

TITLE

**SIDE SLOPE
FLATTENING
GRADING PLAN**

SHEET





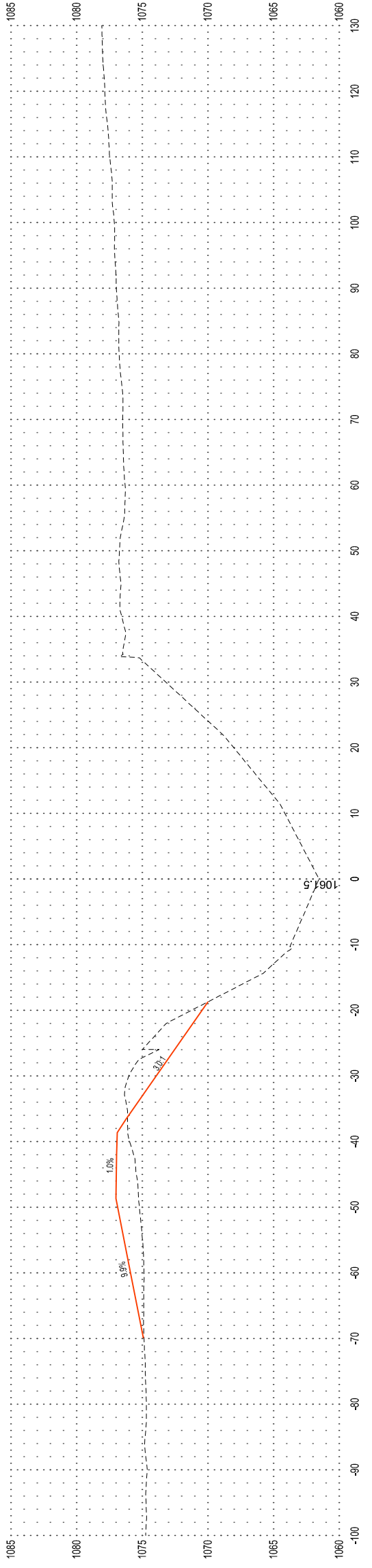
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NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

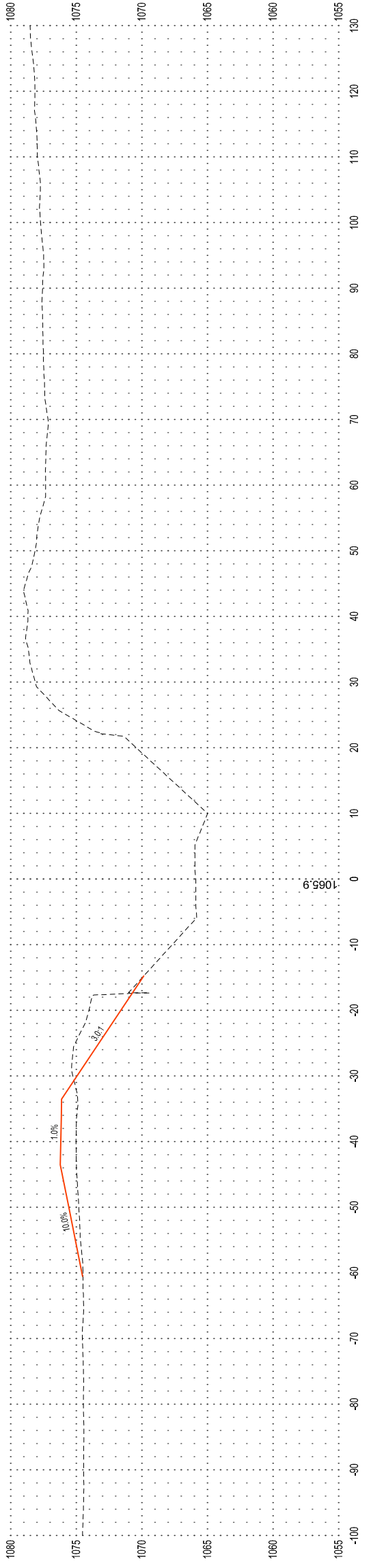
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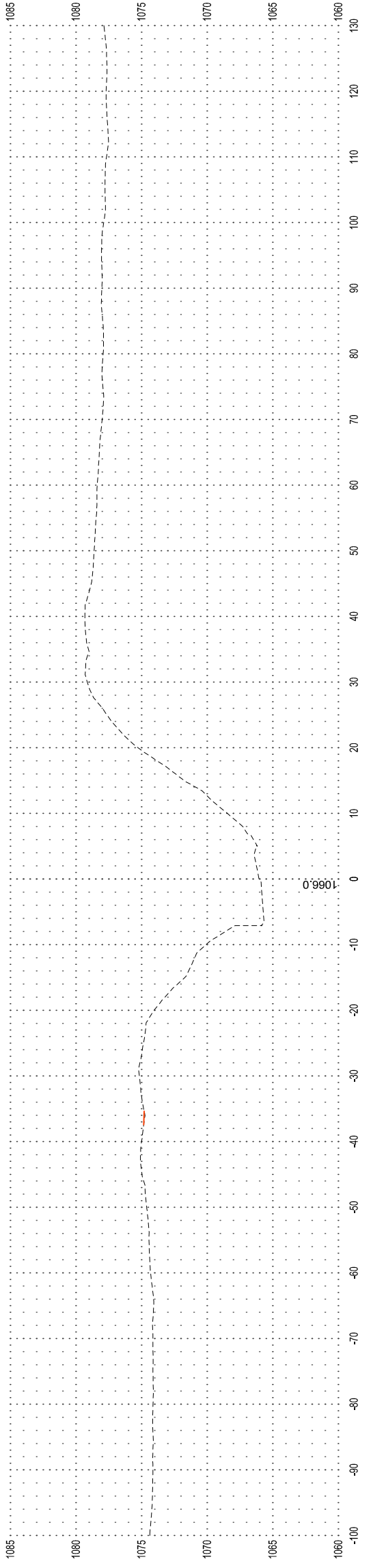
108+75



108+00



107+00



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TITLE

CROSS SECTIONS

SHEET

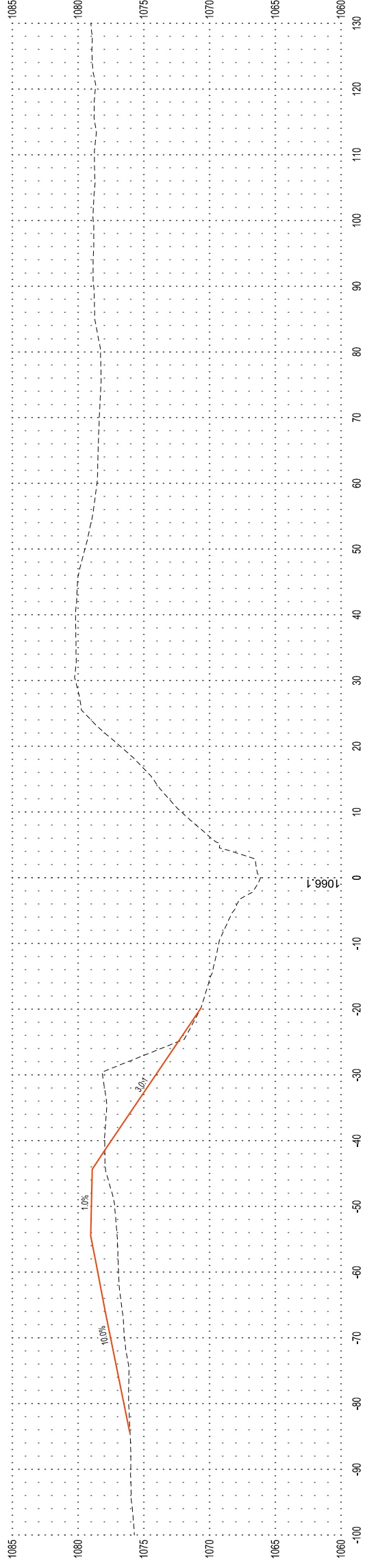


SECTION VIEW LEGEND
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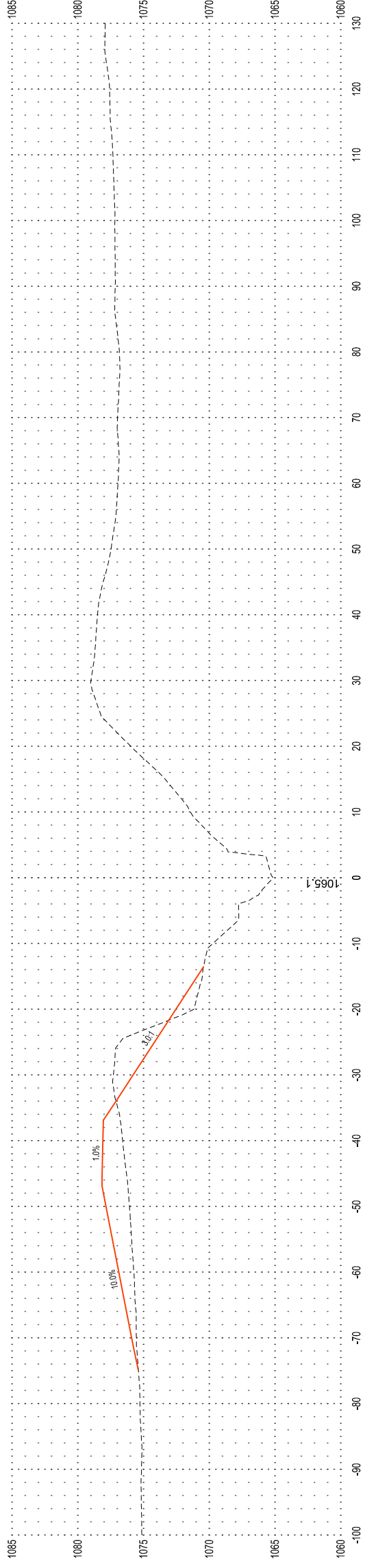
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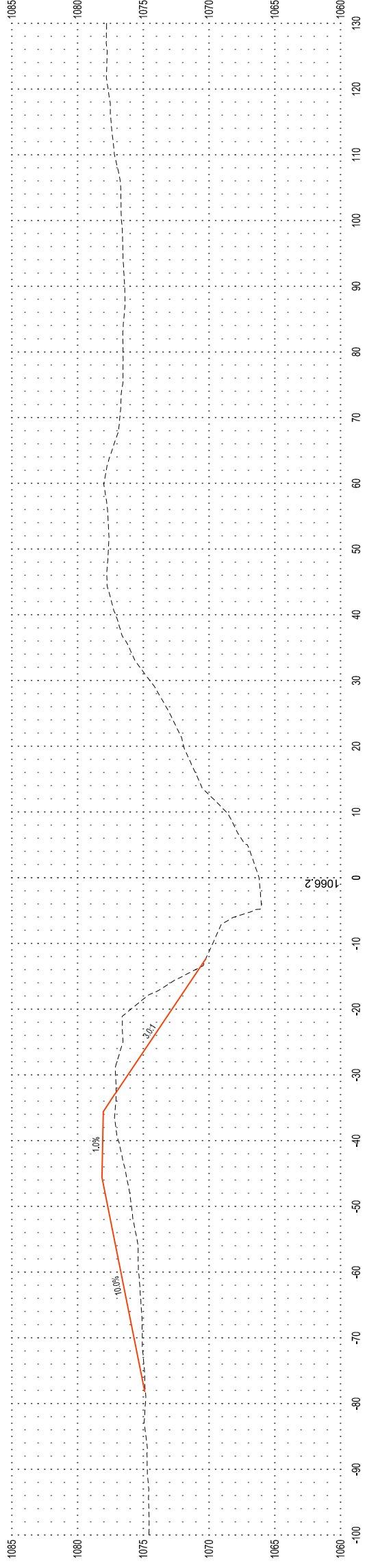
112+00



111+00



110+00



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SHEET



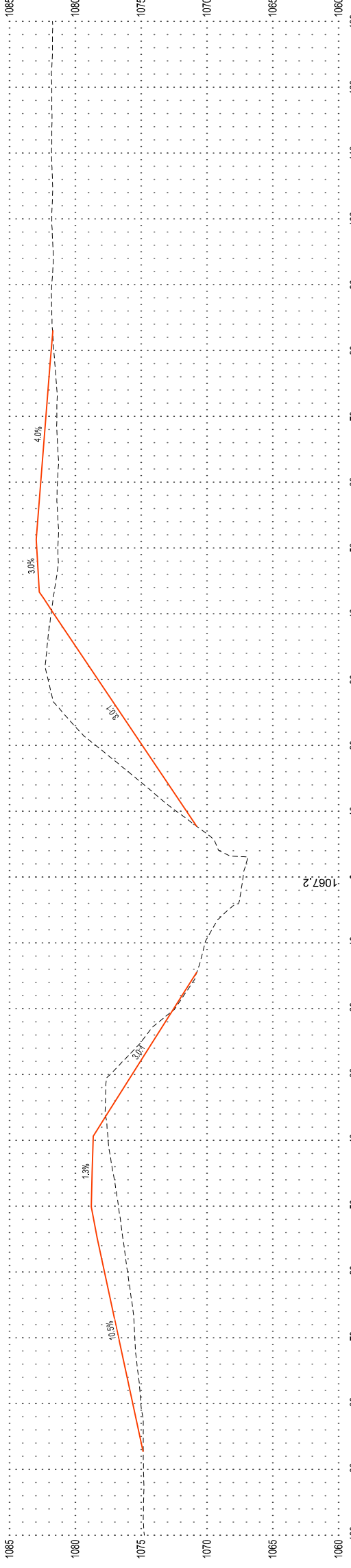
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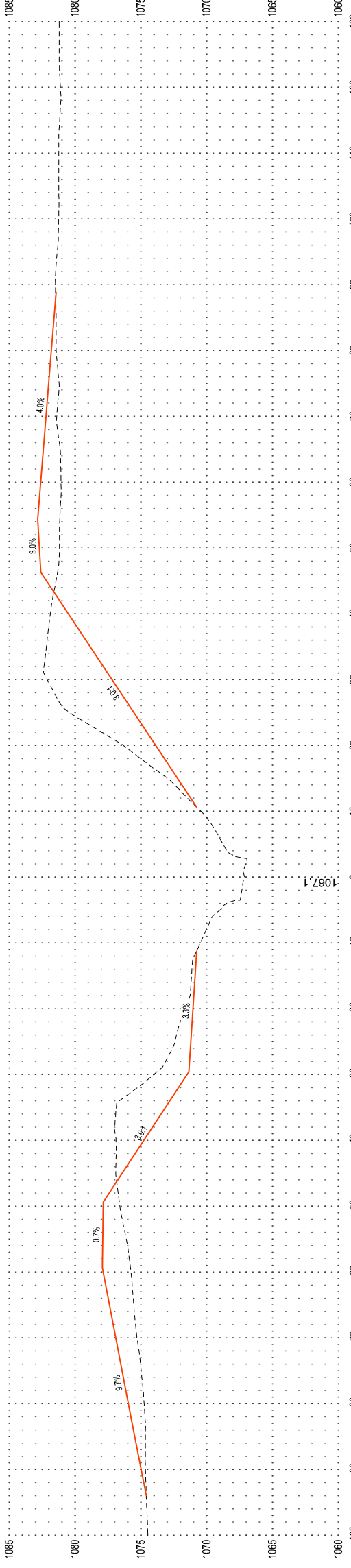
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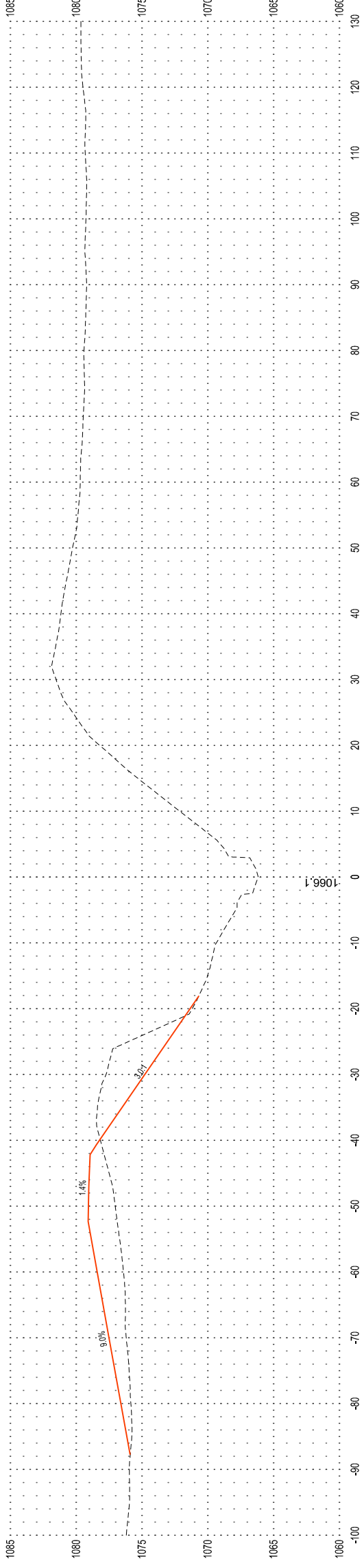
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CROSS SECTIONS



SECTION VIEW LEGEND

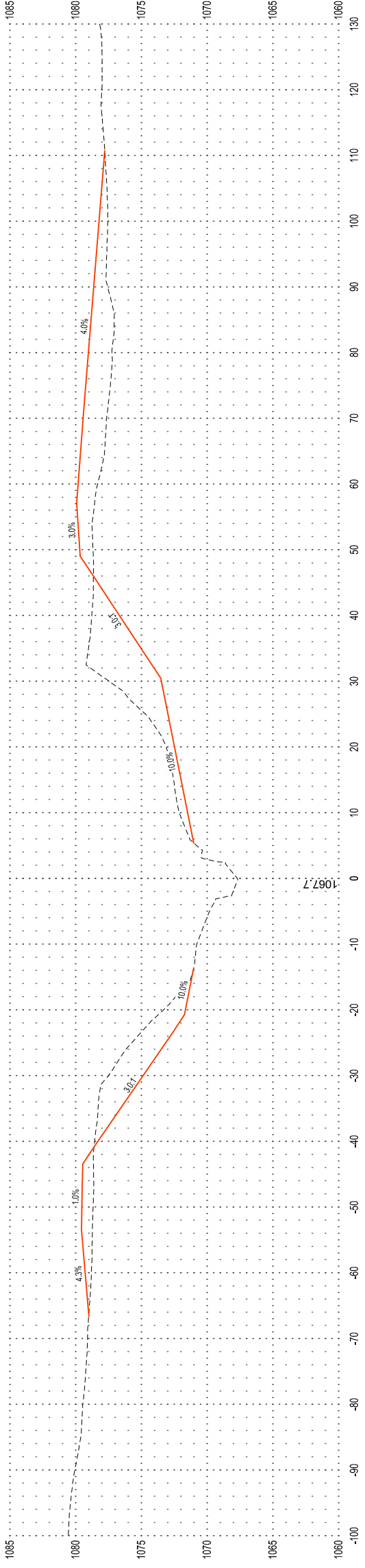
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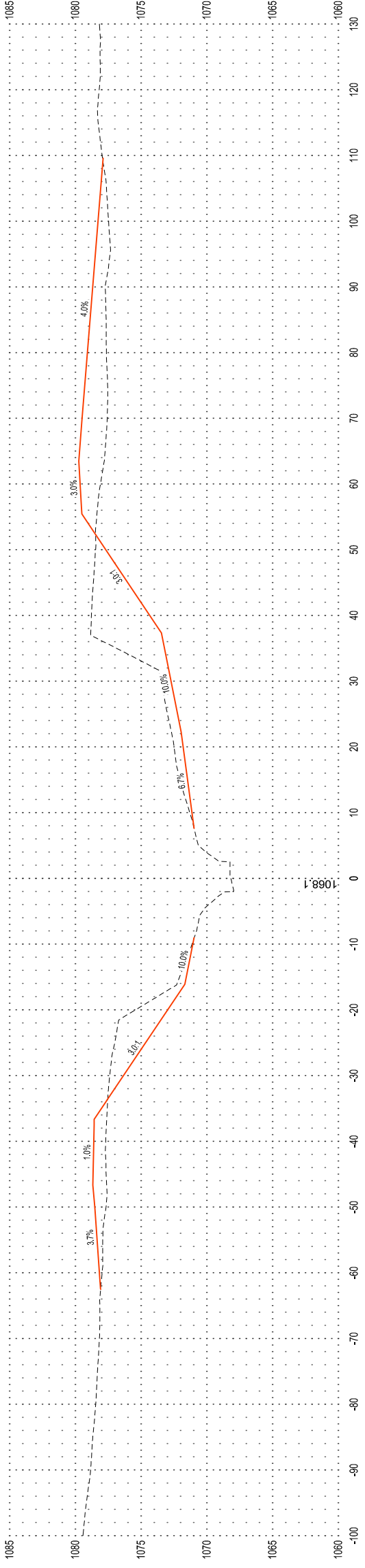
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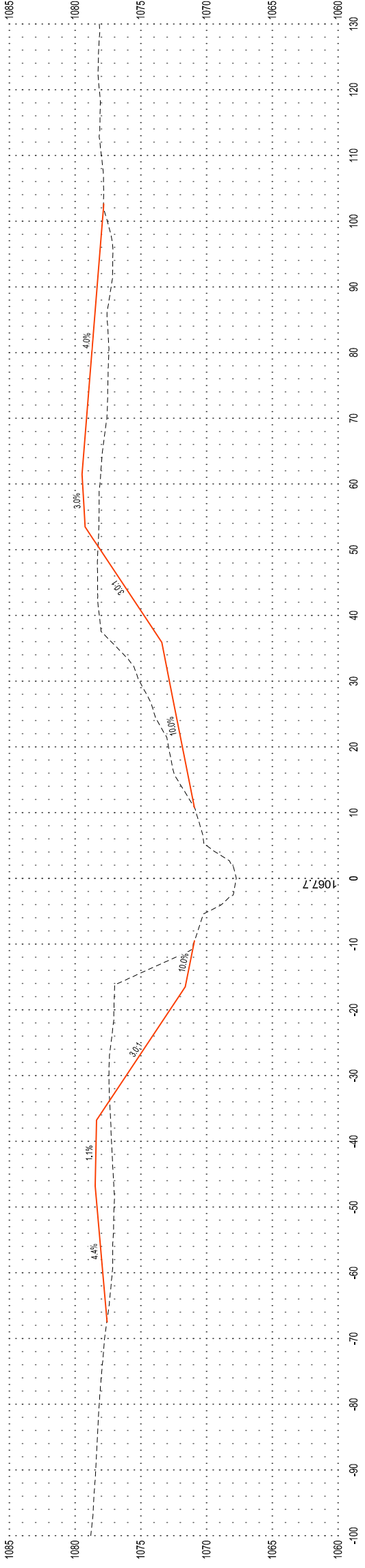
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117+00



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TITLE

CROSS SECTIONS

SHEET

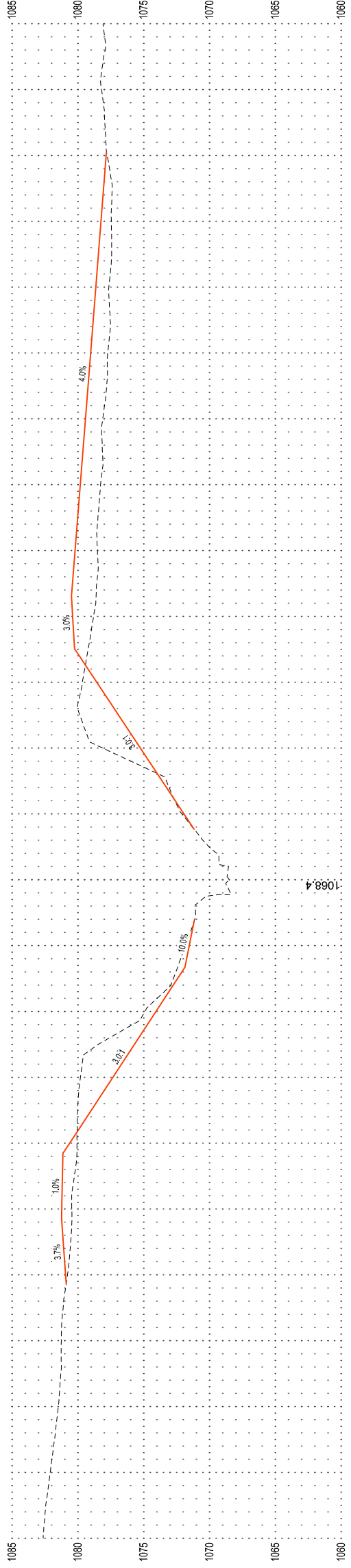


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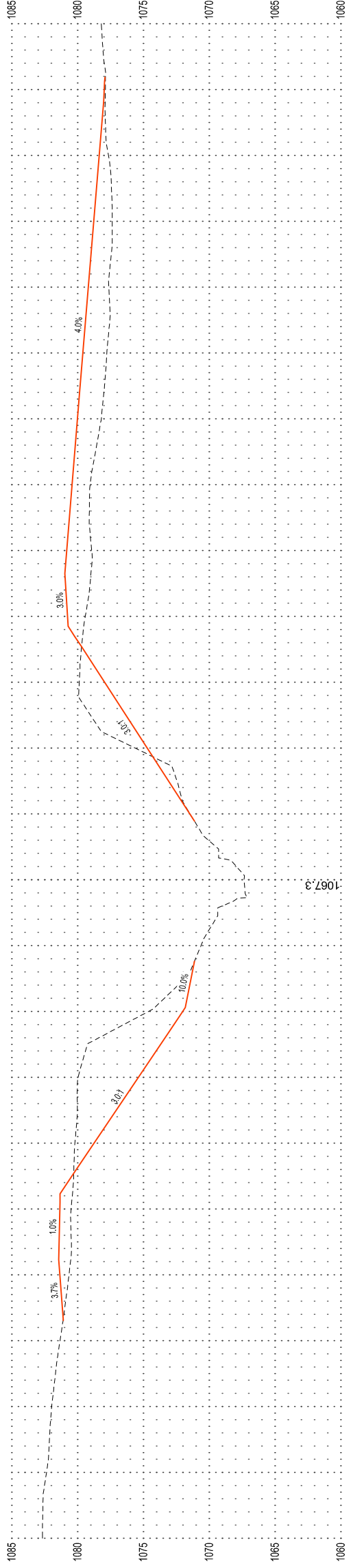
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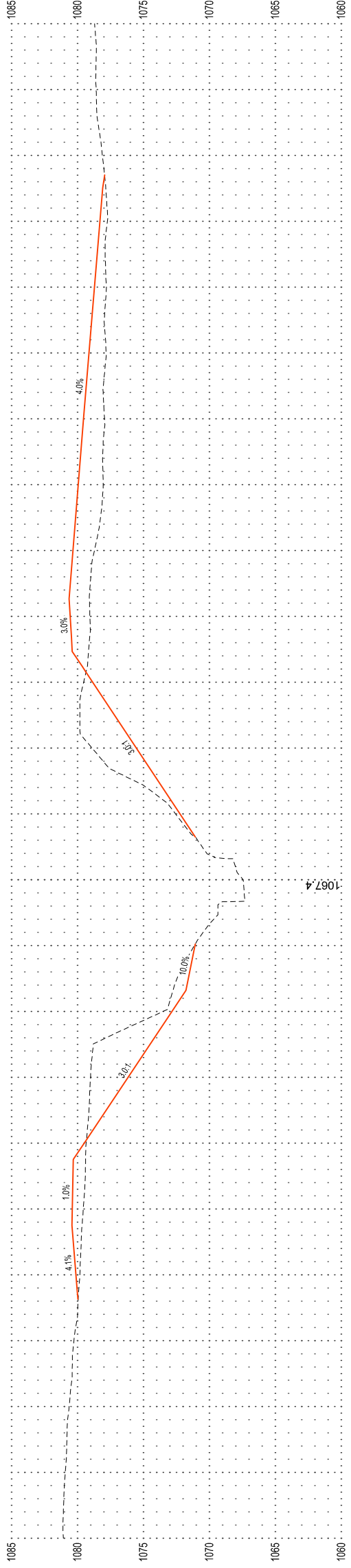
122+00



121+00



120+00



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RICE & STEELE COUNTIES MINNESOTA

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TITLE

CROSS SECTIONS

SHEET



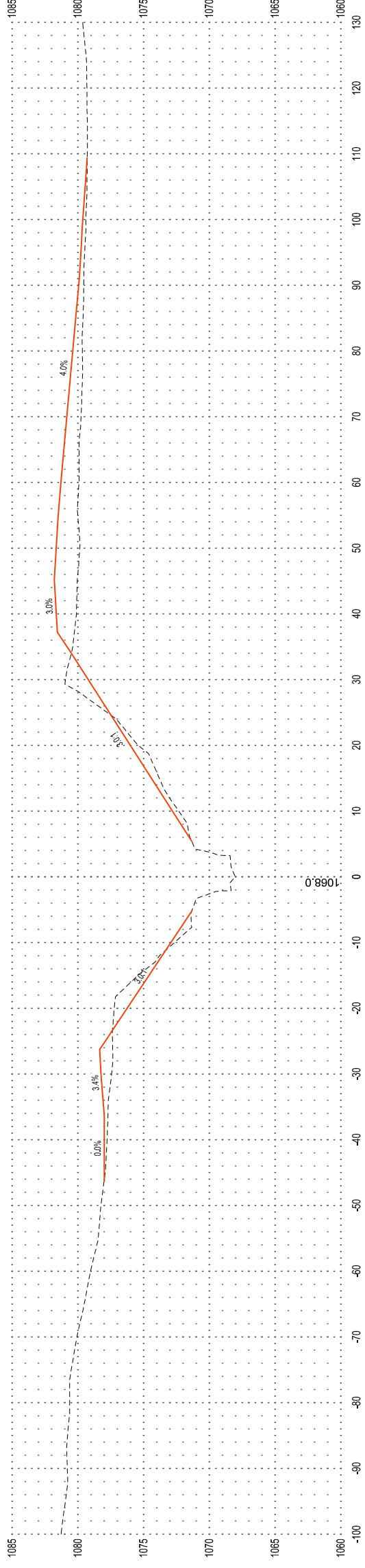
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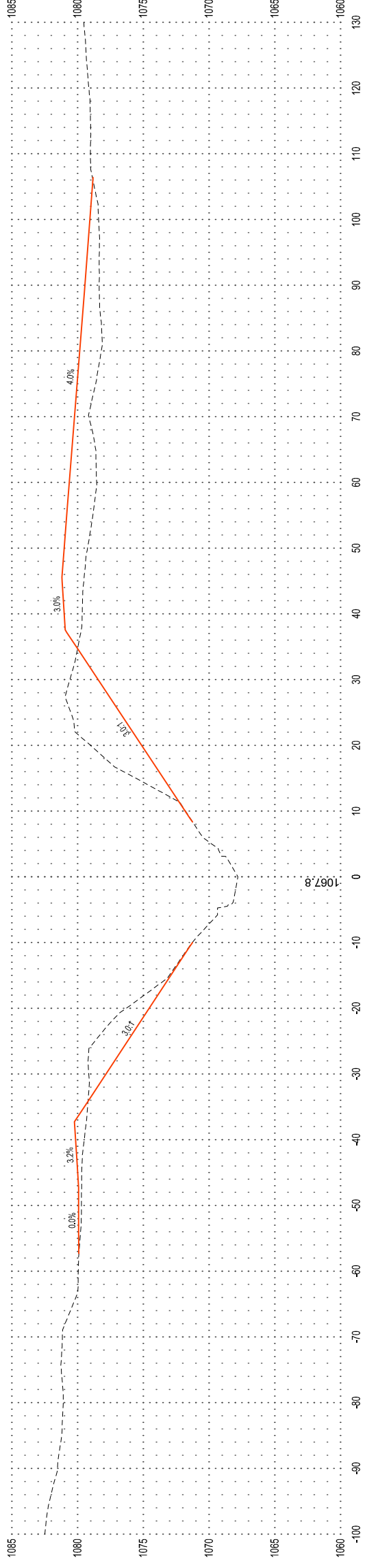
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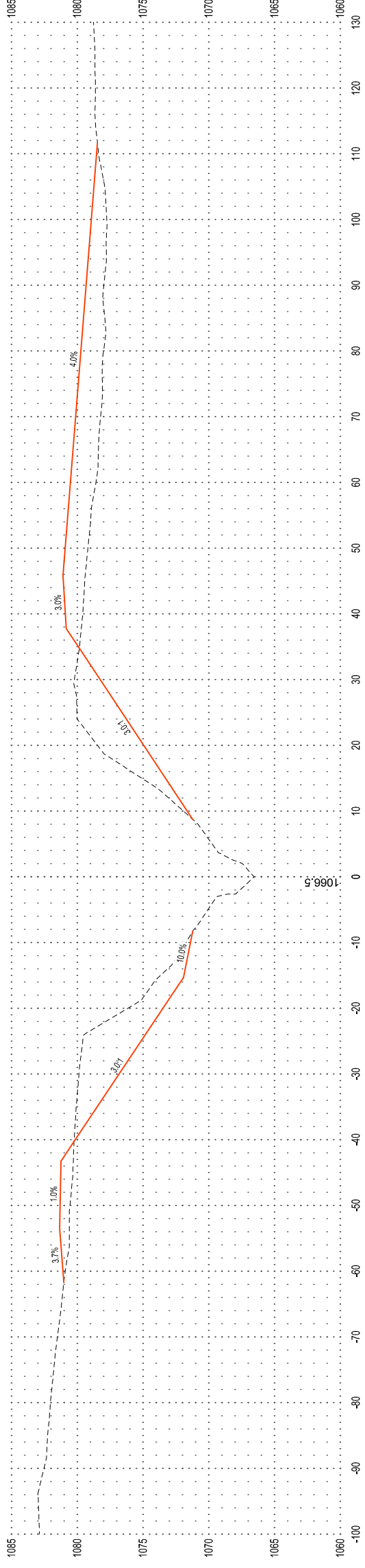
125+25



123+75



123+00



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RICE & STEELE COUNTIES, MINNESOTA

REVISION SCHEDULE	
DATE	DESCRIPTION

PROJECT NO. 22-25087

FILE NAME 25087 SECTIONS

DRAWN BY KJH

DESIGNED BY BFB

REVIEWED BY BFB

ORIGINAL ISSUE DATE -/-/

CLIENT PROJECT NO. -

TITLE

CROSS SECTIONS

SHEET

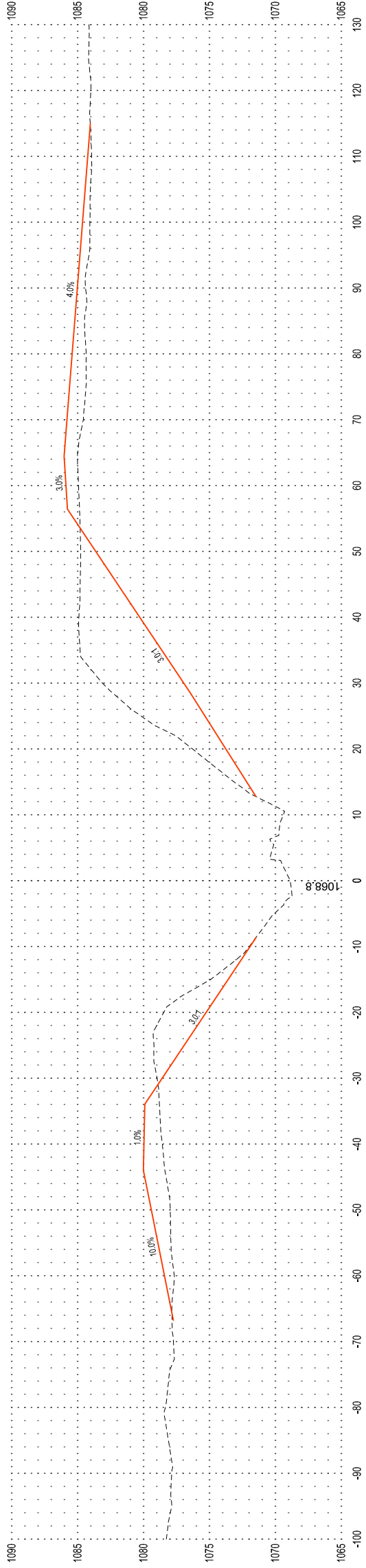


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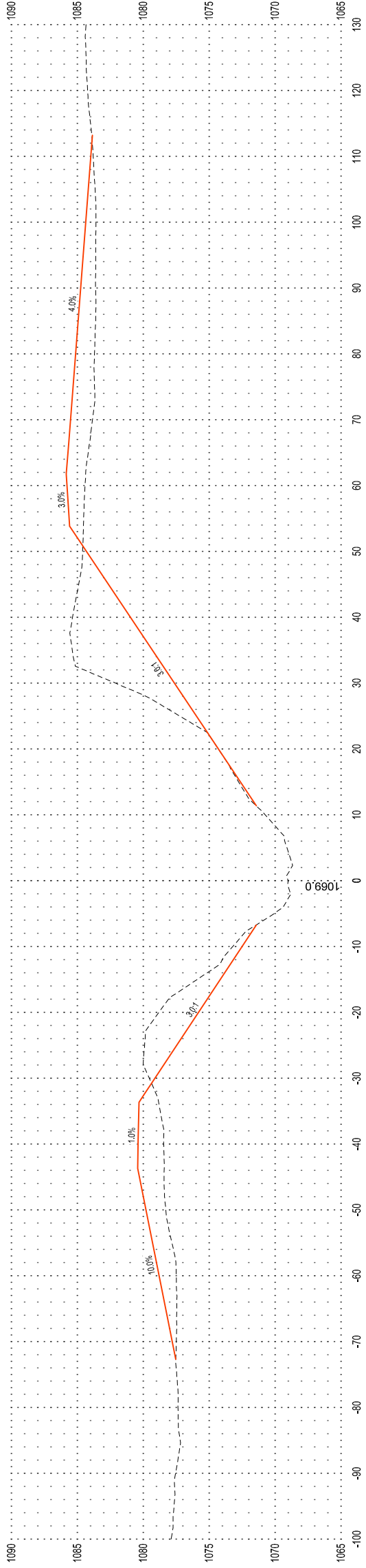
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00000.00	XXXX - EXISTING GROUND ζ
10000.00	XXXXX - PROPOSED GROUND ζ



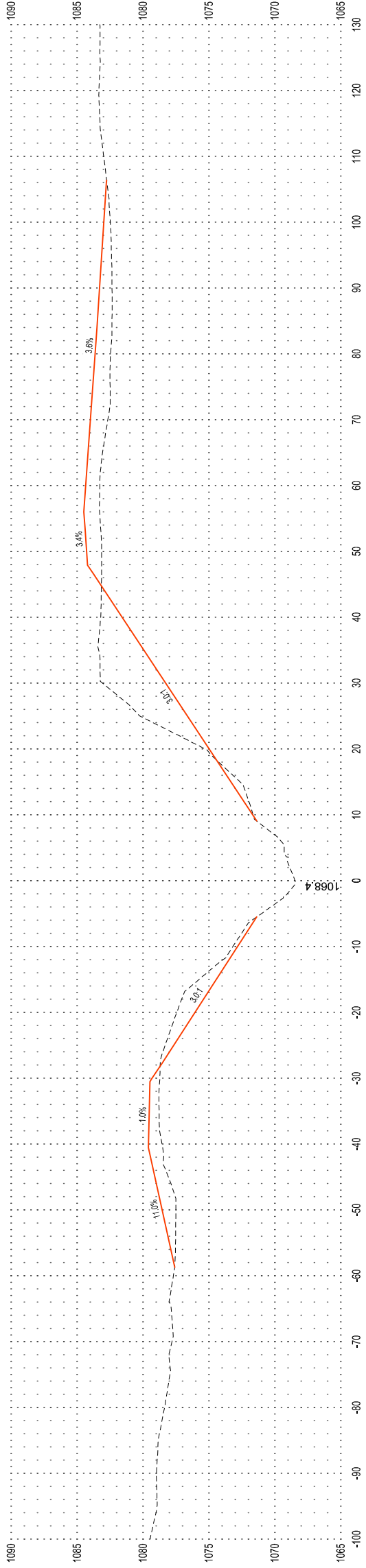
127+75



127+00



126+00



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BAILEY BOCCHINO

Bailey Bocchino

DATE: 11/14/24 LIC. NO.: 59968

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PROJECT

**RICE & STEELE
COUNTIES
JUDICIAL DITCH
No. 6**

RICE & STEELE COUNTIES MINNESOTA

REVISION SCHEDULE	
DATE	DESCRIPTION

PROJECT NO.	22-25087
FILE NAME	25087 SECTIONS
DRAWN BY	KJH
DESIGNED BY	BFB
REVIEWED BY	BFB
ORIGINAL ISSUE DATE	-/-
CLIENT PROJECT NO.	-

TITLE

CROSS SECTIONS

SHEET

STORM WATER POLLUTION PREVENTION PLAN NOTES:

GENERAL PROJECT INFORMATION:

PROJECT NARRATIVE:
This project consists of open ditch cleaning and side slope flattening, spots placement, culvert replacement, and trap placement.

RESPONSIBLE PARTIES:
Contractor and Owner are required to apply for and receive a National Pollution Discharge Elimination System (NPDES) Stormwater Construction Permit from the MPCA at least 7 days prior to beginning work.

Contractor and owner shall identify a person knowledgeable and experienced in the application of erosion prevention and sediment control BMP's who will oversee the implementation of the SWPPP.

Company:	Contact Person:
Phone:	
Company:	Contact Person:
Phone:	

Owner shall identify the entity responsible for the long term Operation and Maintenance of the storm water management system.

Company:	Contact Person:
Phone:	

PROJECT AREAS:
Total project size (disturbed area) = 6.52 acres
Minimum area requiring MPCA permit = 1.00 acres

****PROJECT DOES REQUIRE AN MPCA NPDES PERMIT****

Total new impervious surface area created = 0.00 acres

Minimum area of new impervious surface created requiring permanent storm water management = 1.00 acres

RECEIVING WATERS:

Surface waters which will receive storm water from the site within 1 mile (aerial radius measurement) of project boundary. Include waters shown on USGS 7.5 minute quad and all waters identified in Section 23 of the permit.

Name of Water Body	Type (ditch, pond, wetland, lake, etc.)	Special or Impaired Water?
STRAIGHT RIVER	RIVER	IMPAIRED

Additional BMPs, together with enhanced runoff controls are required for discharges to Special or Impaired waters within 1 mile of the site. (See Section 23)

CONSTRUCTION ACTIVITY NOTES:

EROSION PREVENTION:

Construction of silt fence and all other erosion control measures shall be complete before other construction activity occurs. Use phased construction wherever practical and establish turf as soon as possible to minimize sediment transport.

Turf establishment or temporary seeding or mulching of all exposed soil not being actively worked should be practiced following the table below:

Type of Slope or Disturbance Area	Time Area can Remain Open Without Being Actively Worked	
	Normal Water	Special/Impaired
Steeper than 3:1	14 days	7 days
10:1 to 3:1	14 days	7 days
Flatter 10:1	14 days	7 days
Ditch Buffers	14 days	7 days
Ditch Side Slopes	2 days	
Within 200 Feet of Surface Water	1 day	

Temporary cover during construction is incidental.

Pipe outlets must be provided with permanent energy dissipation within 24 hours after connection to a surface water.

All exposed non-fillable soils shall be seeded at the earliest possible time to prevent/reduce erosion.

Stabilize all areas of the site prior to the onset of winter. any work still being performed will be snow mulched, seeded, and blanketed within the time frames in the NPDES permit.

Provide perimeter control around all stock piles. Place BMP a minimum 5 feet from the toe of the slope where feasible. Do not place stockpiles on natural buffer areas, surface waters or stormwater conveyances.

Topsoil terms must be stabilized in order to be considered perimeter control BMPs. Use rapid stabilization method 2, 3, or 4. the seed mix used in rapid stabilization may be substituted as follows:

- A. Single year construction between May 1 - August 1, seed with 21-111
- B. Single year construction between August 1 and October 31, seed with 21-112
- C. Multi year construction seed with 22-111

A. Seed in disturbed areas within the right of way shall be MnDOT mixture 25-142 and shall be placed in accordance with MnDOT 2575 with MnDOT category 3 erosion control blanket. Seed shall meet MnDOT Specification 3876. Erosion control blanket shall be in accordance with MnDOT 3885.

B. Seed in 16.5 buffer areas shall be the Buffer Blend seed mix (or as specified on plans), and shall be placed in accordance with MnDOT 2575. Seed shall meet MnDOT Specification 3876. Mulch shall be MnDOT 3882 Type 3 (MCA certified weed free mulch) or Type 8 Mulch with bonded fiber matrix. Type 3 Mulch shall be applied at a rate of 2.0 tons/acre. Type 3 Mulch shall be disc anchored. Type 8 Mulch shall be applied at a rate of 4000 lbs/acre and spread evenly.

C. Seed within pond and two-stage ditch areas shall be Buffer Blend seed mix (or as specified on plans), shall be placed in accordance with MnDOT 2575. Seed shall meet MnDOT Specification 3876. Mulch shall be MnDOT 3882 Type 8 Mulch.

Additional erosion prevention measures may be found in the permit and MPCA's Best Management Practices.

SEDIMENT CONTROL PRACTICES:

Construction of silt fence and all other erosion control measures shall be complete prior to land disturbing activities occur.

Inlet protection shall be installed and maintained until turf or pavement has been established.

The contractor shall be responsible to control erosion from leaving the construction zone. All eroded material that leaves the construction zone shall be collected by the contractor and returned to the site at the contractor's expense.

Contractor shall not disturb the 16.5 buffer strip after permanent seeding has been completed. Any work needing to be done in or around the buffer shall be re-seeded within the timeframe specified above.

Contractor shall take the necessary steps to minimize soil compaction and preserve topsoil on site.

INSPECTION AND MAINTENANCE:

The operator must routinely inspect the construction site once every seven (7) days during active construction and within 24 hours of a rainfall event greater than 0.5 inches in a 24 hour period.

All inspections performed during construction must be recorded and records retained with the SWPPP in accordance with the Stormwater Permit. Contractor is responsible for keeping a record of all rainfall data & erosion control maintenance until final establishment of turf.

Perimeter & inlet controls must be repaired, replaced, or supplemented when they become nonfunctional or the sediment reaches 1/2 of the height of the fence. Erosion control and other BMP's must be replaced, repaired, or supplemented when they reach 50% design load.

See MPCA website for example of SWPPP inspection and maintenance forms.

DEWATERING AND BASIN DRAINING:

Dewater water directly into pipes or inlets where possible. Use appropriate energy dissipation measures when possible on all discharges.

Dewatering practices cannot cause nuisance conditions, erosion or in receiving channels or inundation of wetlands resulting in adverse impacts.

POLLUTION PREVENTION:

All solid waste collected from the construction site must be disposed in accordance with all applicable regulations.

All hazardous materials (oil, gasoline, fuel, paint, etc) must be properly stored to prevent spills, leaks or other discharge. Storage areas shall provide secondary containment and a hazardous materials spill kit. Equipment fueling and maintenance shall occur in a designated, contained area. Storage and disposal of hazardous waste must be in compliance with all applicable regulations. All runoff containing any hazardous material must be properly collected and disposed. No engine degreasing shall be allowed on site.

All sanitary wastes must be collected from portable units on site by a licensed sanitary waste management contractor. The units must be secured and shall be maintained on a regular basis as needed to prevent overflowing.

Emergency Spill Plan - The Contractor is responsible for all construction personnel to be informed of the manufacturer's recommended spill cleanup methods, and the location of that information and cleanup supplies. The Contractor shall modify the SWPPP as required within seven calendar days of knowledge of the release to: provide a description of the release, the circumstances leading to the release, and the date of the release. Plans must identify measures to prevent the recurrence of such releases. If a spill occurs, the following steps shall be followed:

1. Observe the safety precautions associated with the spilled material. Stop the source of the spill, if you can do so safely. Call 911 if fire or public safety hazards are created.
2. Contain the spilled material. Dirt, sand, or any semi-impermeable material may be used to create a containment structure to prevent the material from flowing.
3. Report the spill to the Minnesota Duty Officer at (651) 646-5451.
4. Clean up the spilled material and dispose of the wastes properly. With the exception of used oil, waste generated from petroleum spills that have been reported and cleaned up immediately are exempt from Minnesota's Hazardous Waste Rules. Waste generated from used oil spills must be sent to a facility for energy recovery.

The operator is responsible for monitoring air pollution and ensuring it does not exceed levels set by local, state, or federal regulations. This includes dust created by work being performed on the site. Air pollution and dust control connection is considered incidental to the unit bid prices for which work is being performed. Additional dust control measures may be required by the Engineer.

Concrete washout onsite: All liquid and solid wastes generated by concrete washout operations must be contained in a leak-proof containment facility or impermeable liner. A compacted clay liner that does not allow washout liquids to enter ground water is considered an impermeable liner. The liquid and solid wastes must not contact the ground, and there must not be runoff from the concrete washout operations or areas. Liquid and solid wastes must be disposed of properly and in compliance with MPCA regulations. A sign must be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities.

FINAL STABILIZATION:

The operator must ensure final stabilization of the site. The operator must submit a Notice of Termination within 30 days after final stabilization is complete or control has been passed to another owner. All temporary erosion control measures and BMP's must be removed as part of the final site stabilization.

The storm water permit further defines final stabilization and its requirements.



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BAILEY BOCCINO

DATE: 11/14/24 I.E. NO.: 59988

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PROJECT

RICE & STEELE COUNTIES JUDICIAL DITCH No. 6

RICE & STEELE COUNTIES MINNESOTA

DATE	REVISION SCHEDULE	DESCRIPTION	BY

PROJECT NO. 22-25087
FILE NAME 25087 SWPPP
DRAWN BY KJH
DESIGNED BY BFB
REVIEWED BY BFB
ORIGINAL ISSUE DATE --/--
CLIENT PROJECT NO. --

STORMWATER POLLUTION PREVENTION PLAN NOTES

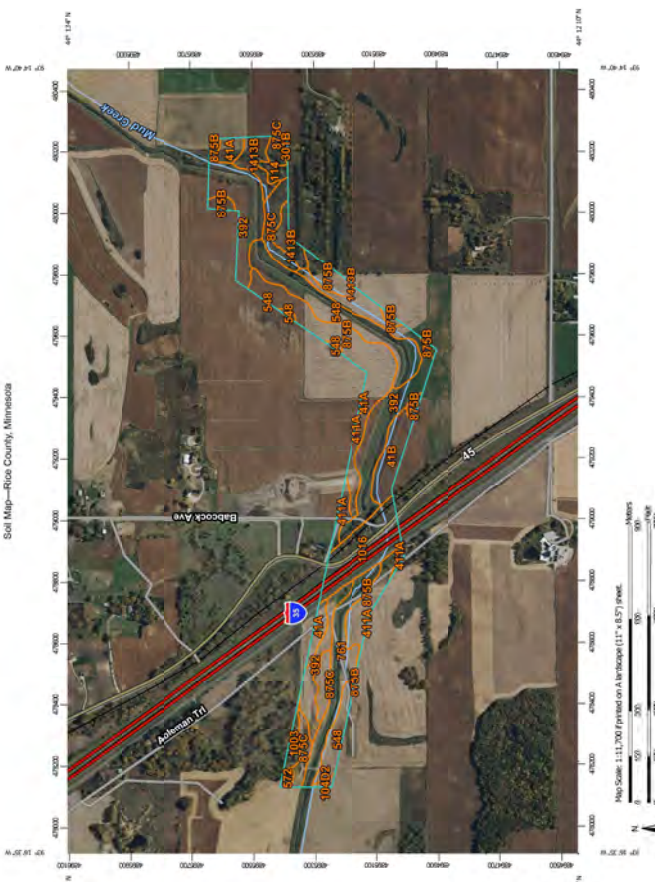
SHEET 25 OF 27

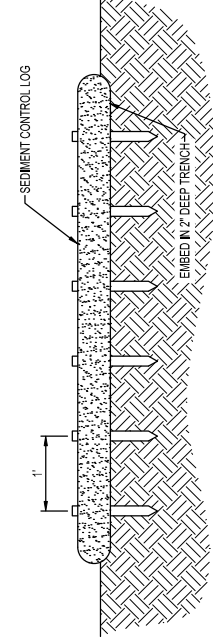
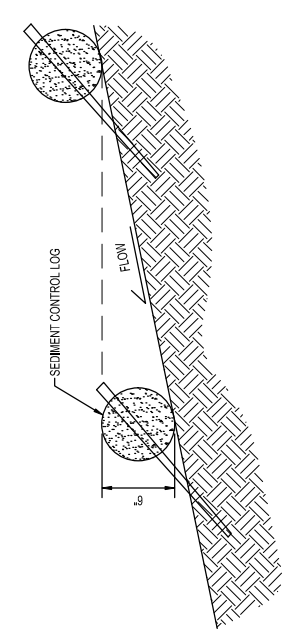
COMMON NAME	SCIENTIFIC NAME	RATE (LB/AC) (BY WT)	% OF MIX
Big Bluestem	Andropogon gerardii	0.30	7.49%
Steeple Day Grass	Bouteloua curtipendula	0.30	7.49%
Nodding Wild Rye	Elymus canadensis	0.30	7.49%
Slender Wheatgrass	Elymus trichocaulis	0.30	7.49%
Green Needlegrass	Nassella viridula	0.44	3.72%
Sweetgrass	Phacelia virgata	0.16	1.30%
Western Wheatgrass	Psycopyrum smithii	0.30	4.15%
Little Bluestem	Schizachyrium scoparium	1.50	12.50%
Indian Grass	Sorghastrum nutans	1.50	12.50%
	Total Grasses	7.70	64.69%
Canada Milk Vetch	Astragalus canadensis	0.08	0.35%
Partridge Pea	Chamaecrista fasciculata	0.10	0.48%
White Prairie Oyster	Dalis caradiba	0.03	0.24%
Purple Prairie Oyster	Dalis purpurea	0.07	0.21%
Canada Tick Trefoil	Dismodium canadense	0.05	0.45%
Narrow-leaved Purple Owl Clover	Echinacea angustifolia	0.08	0.65%
Field Clover	Helicross helanthoides	0.06	0.50%
Smooth Blazing Star	Liatris aspera	0.03	0.38%
Giant Blazing Star	Liatris pycnostachya	0.02	0.24%
Wild Bergamot	Moraea fistulosa	0.04	0.28%
Silk Tassel	Chimaphora rigida	0.03	0.28%
Gray-headed Coneflower	Ratibida pinnata	0.07	0.41%
Black-eyed Susan	Rudbeckia hirta	0.06	0.49%
Smooth Aster	Syrnoidochium laeve	0.03	0.25%
Blue Vervain	Verbena hastata	0.07	0.41%
Henry Vervain	Verbena stricta	0.05	0.41%
Golden Meadworts	Zizia aurea	0.25	2.08%
	Total Forbs	1.10	9.34%
Oats	Avena sativa	3.20	26.83%
	Total Cover Crop	3.20	26.83%
	Totals:	12.20	100.00%

COMMON NAME	SCIENTIFIC NAME	RATE (LB/AC) (BY WT)	% OF MIX
Fowl Bluegrass	Poa palustris	6.00	13.33%
Smooth Brome	Bromus inermis	7.25	17.23%
Slender Wheatgrass	Elymus trichocaulis	2.00	4.45%
Perennial Ryegrass	Lolium perenne	13.50	30.00%
Sweetgrass	Phacelia virgata	1.50	3.33%
Timothy	Phleum pratense	1.25	3.88%
	Grasses Subtotal	32.50	72.23%
Meadow Saffron	Moraea sativa	12.50	27.77%
	Forbs Subtotal	12.50	27.77%
	Total	45.00	100.00%

Map Unit Symbol	Map Unit Name	Acres in ACI	Percent of ACI
41A	Estherville sandy loam, 0 to 2 percent slopes	3.4	3.0%
41B	Estherville sandy loam, 2 to 6 percent slopes	4.8	4.2%
10A02	Hayden loam, 10 to 22 percent slopes	0.3	0.3%
114	Oberlin clay loam, 0 to 1 percent slopes	1.1	0.9%
301B	Ludstone silt loam, 0 to 2 percent slopes	0.3	0.3%
360	Biscay clay loam, 0 to 2 percent slopes	27.8	24.4%
411A	Waukegan silt loam, 0 to 2 percent slopes	2.0	1.7%
548	Mado musk, depressional, 0 to 1 percent slopes	15.6	13.7%
572	Lewiston sandy loam, 1 to 5 percent slopes	0.5	0.5%
761	Epston silt clay loam, 0 to 2 percent slopes, frequently flooded	9.2	8.1%
875B	Hensick-Esterville complex, 2 to 12 percent slopes	23.6	20.7%
875C	Hensick-Esterville complex, 6 to 12 percent slopes	9.0	7.9%
1003	Altonville-Urbana-Phillips complex, 2 to 45 percent slopes	1.3	1.2%
1016	Uppertown, heavy (not and fill land)	9.7	8.5%
1413B	Linton silt loam, 0 to 4 percent slopes, 1 to 4 percent slopes	5.4	4.7%
	Totals for Area of Interest	114.1	100.0%

Map Unit Legend





NOTES:

1. SEDIMENT CONTROL LOGS TO BE 6" DIAMETER UNLESS OTHERWISE NOTED.
2. STAKED INTO THE GROUND WITH WOOD STAKES.
3. WOOD STAKES ARE A MINIMUM OF 2x16x1/2" UNLESS PRECLUDED BY PAVED SURFACE OR ROCK.
4. WOOD STAKES DRIVEN THROUGH BACK HALF OF SEDIMENT CONTROL LOG AT AN APPROXIMATE ANGLE OF 45° WITH THE TOP OF STAKE POINTING UP STREAM.
5. WHEN MORE THAN ONE SEDIMENT CONTROL LOG IS NEEDED, OVERLAP ENDS A MINIMUM OF 6" AND STAKE.

SEDIMENT CONTROL LOG STAKING

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Bailey Bocchino

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PROJECT

RICE & STEELE COUNTIES JUDICIAL DITCH No. 6

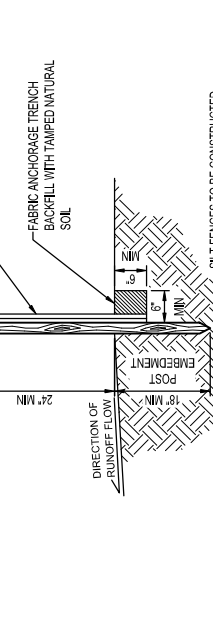
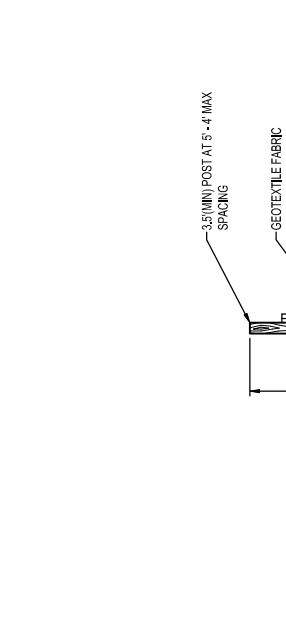
RICE & STEELE COUNTIES MINNESOTA

DATE	REVISION	SCHEDULE	DESCRIPTION	BY

PROJECT NO. 22-25087

FILE NAME	25087 SVRPPP
DRAWN BY	KJH
DESIGNED BY	BPB
REVIEWED BY	BPB
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

STORMWATER POLLUTION PREVENTION DETAILS



NOTES:

1. INSTALLATION, MAINTENANCE AND REMOVAL OF SILT FENCE IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE INCIDENTAL TO THE BID ITEM.
2. SILT FENCE SHALL BE PAD FOR BY THE I.F. REFER TO PAYMENT SCHEDULE IN CONTRACT DOCUMENTS.

SILT FENCE

NTS

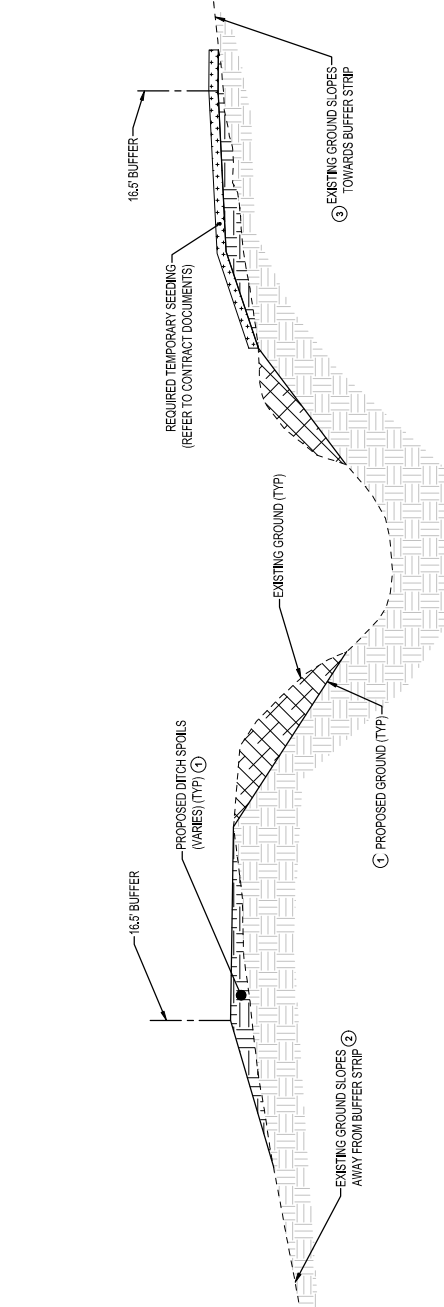
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KEY NOTES:

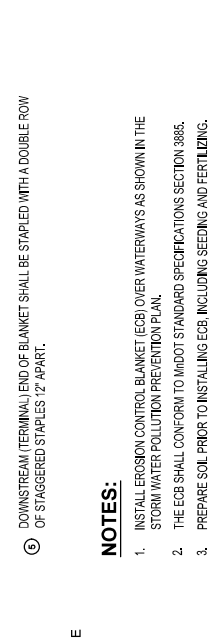
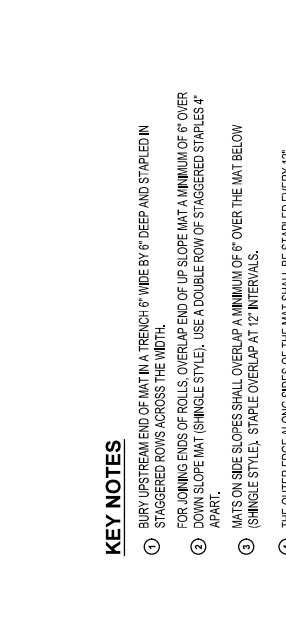
1. PROPOSED GROUND AND DITCH SPOILS SECTIONS VARY. REFER TO CROSS SECTIONS OR CONTRACT DOCUMENTS FOR FURTHER CLARIFICATION AND INSTRUCTION.
2. IF THE EXISTING GROUND SLOPES AWAY FROM THE DITCH AT THE BUFFER, TEMPORARY SEEDING MAY NOT BE NECESSARY. REFER TO THE ENGINEER FOR APPROVAL.
3. IF THE EXISTING GROUND SLOPES TOWARDS THE DITCH AT THE BUFFER, TEMPORARY SEEDING SHALL BE REQUIRED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

NOTES:

1. TEMPORARY SEEDING SHALL COMPLY WITH THE CONTRACT DOCUMENTS. ALL TEMPORARY SEEDING AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO CONSTRUCTION.
2. REFER TO THE CONTRACT DOCUMENTS FOR A FINAL SEEDING AND EROSION CONTROL PLAN.
3. DITCH BANK SEEDING MUST OCCUR WITHIN 2 DAYS.

OPEN DITCH SPOILS TEMPORARY SEEDING SECTION

NTS



KEY NOTES

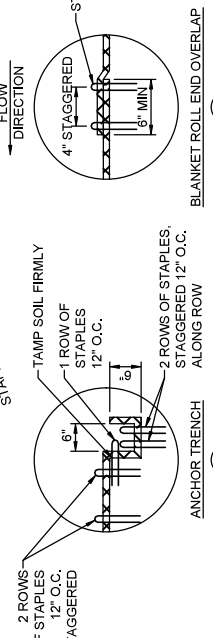
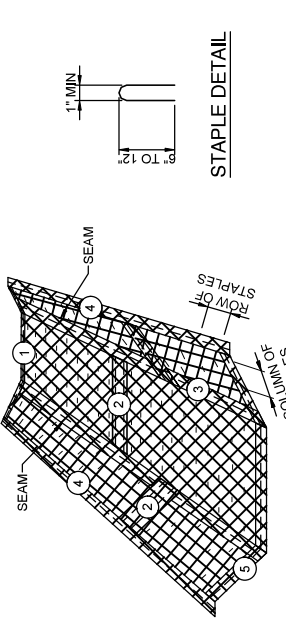
1. BURY UPSTREAM END OF MAT IN A TRENCH 6" WIDE BY 6" DEEP AND STAPLED IN STAGGERED ROWS ACROSS THE WIDTH.
2. FOR JOINING ENDS OF ROLLS, OVERLAP END OF UP-SLOPE MAT A MINIMUM OF 6" OVER DOWN-SLOPE MAT (SHINGLE STYLE). USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART.
3. MATS ON SIDE SLOPES SHALL OVERLAP A MINIMUM OF 6" OVER THE MAT BELOW (SHINGLE STYLE). STAPLE OVERLAP AT 12" INTERVALS.
4. THE OUTER EDGE ALONG SIDES OF THE MAT SHALL BE STAPLED EVERY 12".
5. DOWNSTREAM (TERMINAL) END OF BLANKET SHALL BE STAPLED WITH A DOUBLE ROW OF STAGGERED STAPLES 12" APART.

EROSION CONTROL BLANKET INSTALLATION

NTS

NOTES:

1. INSTALL EROSION CONTROL BLANKET (ECB) OVER WATERWAYS AS SHOWN IN THE STORM WATER POLLUTION PREVENTION PLAN.
2. THE ECB SHALL CONFORM TO MNDOT STANDARD SPECIFICATIONS SECTION 3865.
3. PREPARE SOIL PRIOR TO INSTALLING ECB, INCLUDING SEEDING AND FERTILIZING.
4. THE ECB SHALL BE PLACED IN FIRM CONTACT WITH THE SOIL AND NOT BE ALLOWED TO BRIDGE OVER SURFACE IRREGULARITIES. THE MAT SHALL NOT BE STRETCHED.
5. START LAYING THE MATS BY ROLLING CENTER MAT IN THE DIRECTION OF FLOW, CENTERED ON THE CENTERLINE OF WATERWAY. THERE SHALL NOT BE AN OVERLAP OF MATS AT THE CENTER OF THE WATERWAY.
6. THE ECB SHALL BE ANCHORED, OVERLAPPED, AND STAPLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. IF NO MANUFACTURER'S INSTRUCTIONS ARE AVAILABLE, INSTALL THE MAT PER DETAIL.
7. STAPLES SHALL BE "U" SHAPED, 0.12" DIAMETER WIRE OR GREATER (IFT GAUGE). (SEE STAPLE DETAIL FOR DIMENSIONS)
8. STAPLES ARE TO BE PLACED ALTERNATELY IN COLUMNS IN THE DIRECTION OF THE WATERWAY 7' APART AND IN ROWS (ACROSS THE WATERWAY) 3' APART THROUGHOUT THE AREA COVERED BY THE ECB.



NOTES:

1. DISTURBED DITCH SIDE SLOPES FROM WIDENING, DEEPENING AND NEW CONSTRUCTION SHALL BE REDRESSED WITH #2 OF TOPSOIL UNLESS APPROVED BY THE ENGINEER.
2. DITCH BANK SEEDING MUST OCCUR WITHIN 2 DAYS.

TYPICAL OPEN DITCH SEEDING SECTION

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PROJECT



SCALE IN FEET
0 150 300

UITTENBOGAARD DENNIS
40 AC

UITTENBOGAARD DENNIS & SUSAN
80 AC

BRIAN L PRESTON TRUST
35 AC

HEIMERMANN STEVEN & LAURIE
3 AC

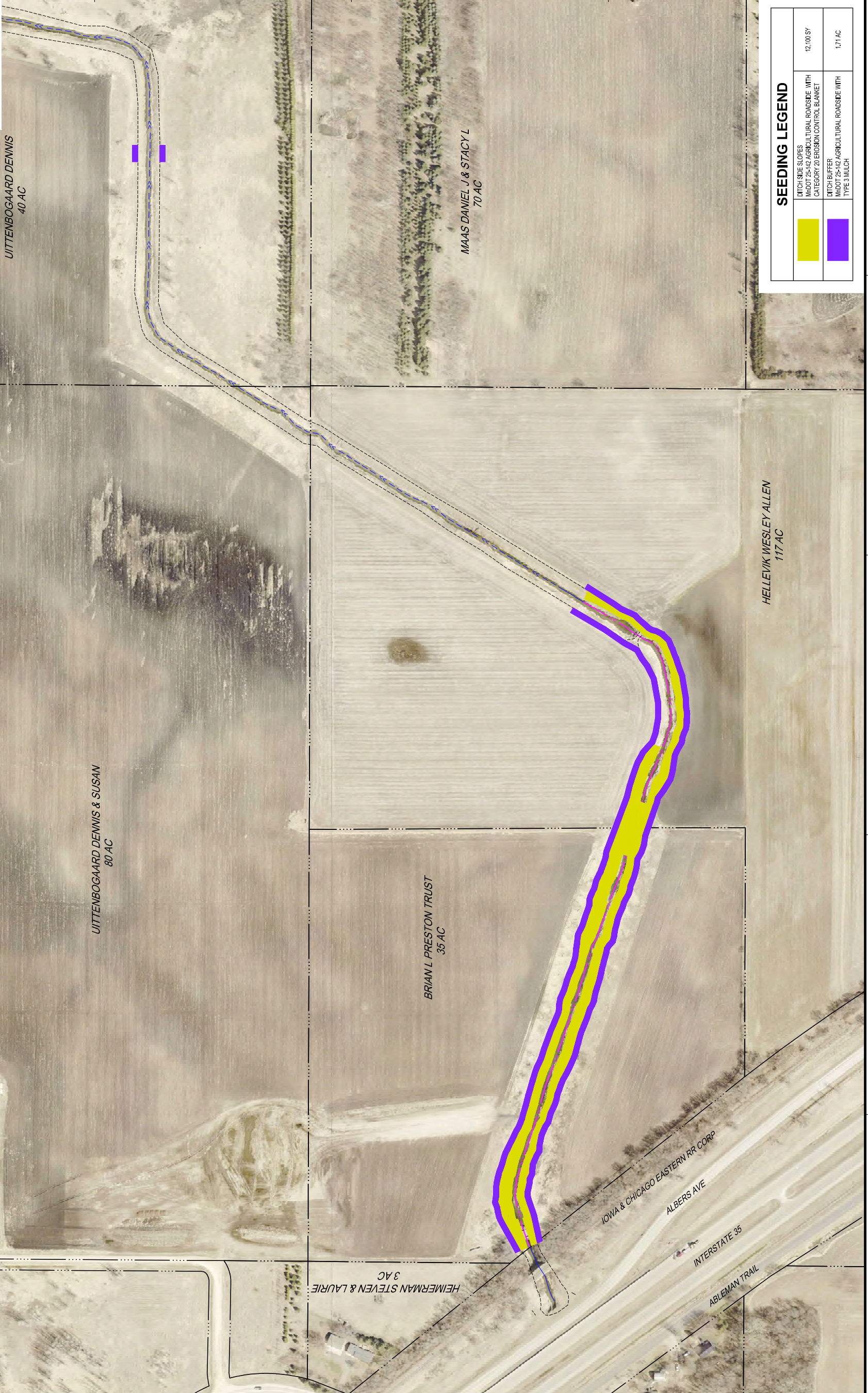
MAAS DANIEL J & STACY L
70 AC

HELLEVIK WESLEY ALLEN
117 AC

IOWA & CHICAGO EASTERN RR CORP
ALBERS AVE

INTERSTATE 35

ABLEMAN TRAIL



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PROJECT

RICE & STEELE COUNTIES JUDICIAL DITCH No. 6



RICE & STEELE COUNTIES MINNESOTA

REVISION SCHEDULE	
DATE	DESCRIPTION

PROJECT NO. 22-25087
FILE NAME 26087 SVPPP
DRAWN BY KJH
DESIGNED BY BFB
REVIEWED BY BFB
ORIGINAL ISSUE DATE --/--
CLIENT PROJECT NO. . .

TITLE

SEEDING MAP

SEEDING LEGEND	
	DITCH SIDE SLOPES IMDOT 25-142 AGRICULTURAL ROADSIDE WITH CATEGORY 20 EROSION CONTROL BLANKET 12,100 SY
	DITCH BUFFER IMDOT 25-142 AGRICULTURAL ROADSIDE WITH TYPE 3 MULCH 1,71 AC

SHEET