

CITY OF RAMSEY

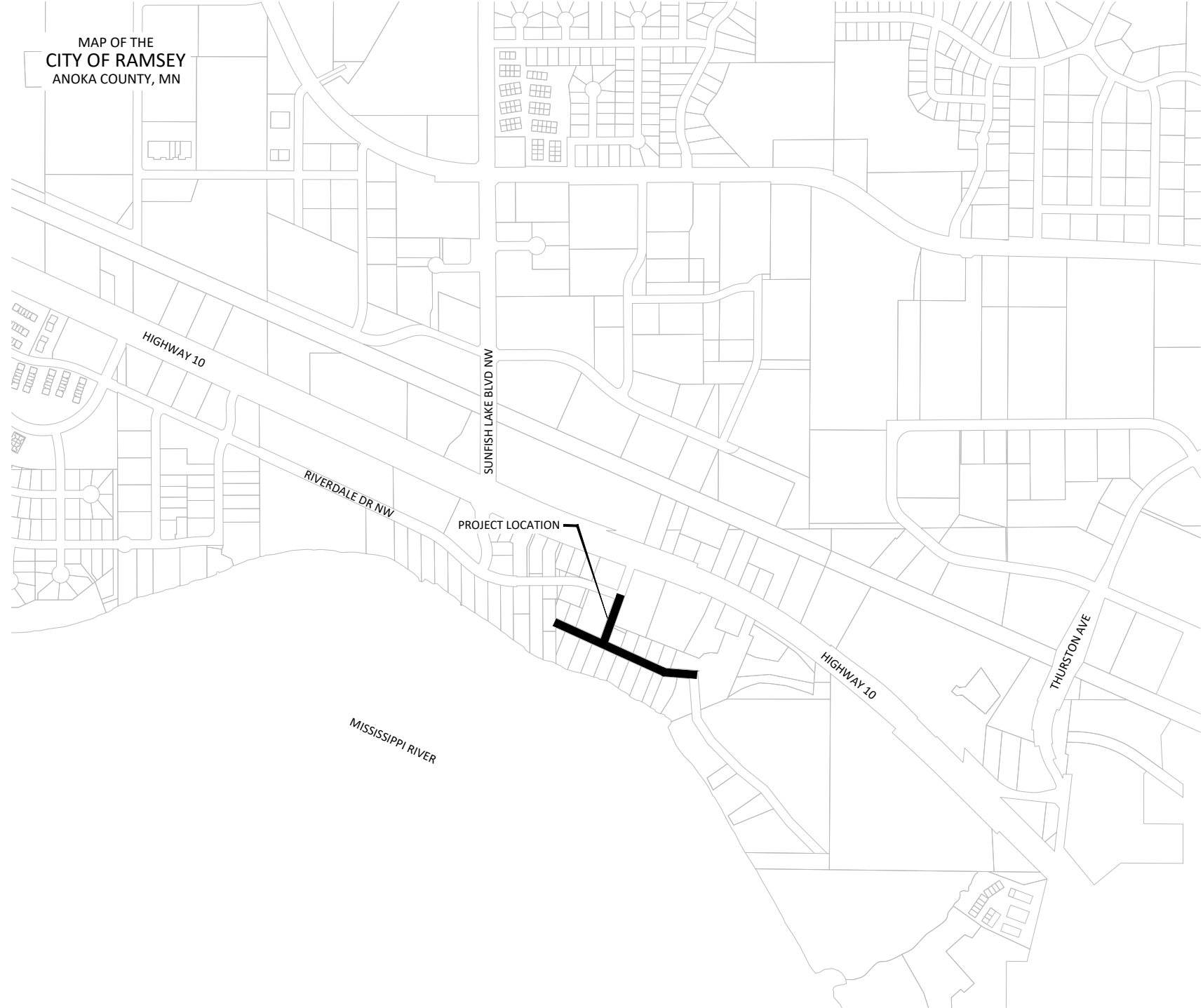
CONSTRUCTION PLANS FOR

DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION

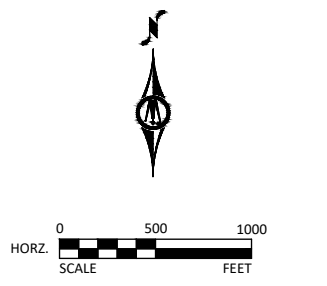
GRADING, AGGREGATE BASE, PLANT MIXED BITUMINOUS PAVEMENT, CONCRETE CURB & GUTTER, STORM SEWER, WATERMAIN, EROSION AND
SEDIMENT CONTROL
CITY IMPROVEMENT PROJECT 25-04
MARCH 2025

RESOURCE LIST
CITY OF RAMSEY
City Hall
7550 Sunwood Drive NW
Ramsey, MN 55303

AGGREGATE STOCKPILE SITE:
RAMSEY PUBLIC WORKS, 14199 JASPER STREET NE

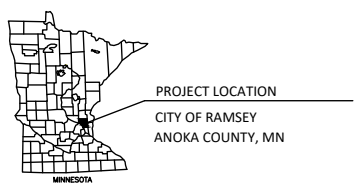


SHEET NUMBER	SHEET TITLE
1 - 2	TITLE SHEET, LEGEND
3	STATEMENT OF ESTIMATED QUANTITIES
4	LOCATION PLAN
5 - 7	EXISTING CONDITIONS & REMOVALS
8	TYPICAL SECTIONS
9 - 12	STANDARD DETAILS
13	PROJECT SPECIFIC DETAIL - HYDRODYNAMIC SEPARATOR STRUCTURE
14 - 16	STORMWATER POLLUTION PREVENTION PLAN
17 - 19	EROSION CONTROL & TURF RESTORATION
20 - 22	WATERMAIN & SANITARY SEWER - PLAN & PROFILE
23	WATERMAIN - PLAN & PROFILE ALTERNATE 1
24	TEMPORARY WATER PLAN
25	STORM SEWER - PLAN & PROFILE
26 - 29	STREET IMPROVEMENTS - PLAN & PROFILE
30	INTERSECTION DETAILS
31 - 39	CROSS SECTIONS
40 - 41	LANDSCAPE PLAN



SCALES

PLAN	0'	50'
PROFILE	0'	50'
	HORIZ.	5'
	VERT.	600'
INDEX MAP	0'	600'



THIS PLAN SET CONTAINS 41 SHEETS.

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.

Zachary F. Lingl
ZACHARY F. LINGL, P.E. REG. NO. 56344 DATE: 03/27/2025

REVIEWED & APPROVED _____ DATE: _____
CITY ENGINEER | DIRECTOR OF PUBLIC WORKS

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR 651-454-0002.

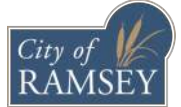
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

⚡ BM=870.29 TNH STATION 702+96 - 872' LT FERRET STREET & BUNKER LAKE BLVD, SE DITCH	PROJECT DATUM: HORIZONTAL: ANOKA COUNTY COORDINATES (1996 ADJUSTMENT) VERTICAL: NGVD 88	RECORD DRAWING INFORMATION
		OBSERVER: _____ CONTRACTOR: _____ DATE: _____
CITY OF RAMSEY, MINNESOTA DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION		SHEET 1 OF 41
TITLE SHEET		

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DESIGNED	NO.	ISSUED FOR	DATE
TJP			
DRAWN	ZDB		
CHECKED	ZFL		
CLIENT PROJ. NO.	25-04		

EXISTING TOPOGRAPHIC SYMBOLS

	ACCESS GRATE		REGULATION STATION GAS
	AIR CONDITION UNIT		SATELLITE DISH
	ANTENNA		SIGN TRAFFIC
	AUTO SPRINKLER CONNECTION		SIGNAL CONTROL CABINET
	BARRICADE PERMANENT		SOIL BORING
	BASKETBALL POST		SIREN
	BENCH		TELEPHONE BOOTH
	BIRD FEEDER		TILE INLET
	BOLLARD		TILE OUTLET
	BUSH		TILE RISER
	CATCH BASIN RECTANGULAR CASTING		TRANSFORMER-ELECTRIC
	CATCH BASIN CIRCULAR CASTING		TREE-CONIFEROUS
	CURB STOP		TREE-DEAD
	CLEAN OUT		TREE-DECIDUOUS
	CULVERT END		TREE STUMP
	DRINKING FOUNTAIN		TRAFFIC ARM BARRIER
	DOWN SPOUT		TRAFFIC SIGNAL
	ELECTRIC CAR CHARGE STATION		TRASH CAN
	FILL PIPE		UTILITY MARKER
	FIRE HYDRANT		VALVE
	FLAG POLE		VALVE POST INDICATOR
	FLARED END / APRON		VALVE VAULT
	FUEL PUMP		VAULT
	GRILL		VENT PIPE
	GUY WIRE ANCHOR		WATER SPIGOT
	HANDHOLE		WELL
	HANDICAP SPACE		WETLAND DELINEATED MARKER
	IRRIGATION SPRINKLER HEAD		WETLAND
	IRRIGATION VALVE BOX		WET WELL
	LIFT STATION CONTROL PANEL		YARD HYDRANT
	LIFT STATION		
	LIGHT POLE		
	MAILBOX		
	MANHOLE-COMMUNICATION		
	MANHOLE-ELECTRIC		
	MANHOLE-GAS		
	MANHOLE-HEAT		
	MANHOLE-RECLAIMED WATER		
	MANHOLE-SANITARY SEWER		
	MANHOLE-STORM SEWER		
	MANHOLE-UTILITY		
	MANHOLE-WATER		
	METER		
	DRIVE-THRU MICROPHONE		
	PARKING METER		
	PAVEMENT MARKING		
	PEDESTAL-COMMUNICATION		
	PEDESTAL-ELECTRIC		
	PEDESTRIAN PUSH BUTTON		
	PICNIC TABLE		
	POLE-UTILITY		
	POST		
	RAILROAD SIGNAL POLE		

PROPOSED TOPOGRAPHIC SYMBOLS

	CLEANOUT
	MANHOLE
	LIFT STATION
	STORM SEWER CIRCULAR CASTING
	STORM SEWER RECTANGULAR CASTING
	STORM SEWER FLARED END / APRON
	STORM SEWER OUTLET STRUCTURE
	STORM SEWER OVERFLOW STRUCTURE
	CURB BOX
	FIRE HYDRANT
	WATER VALVE
	WATER REDUCER
	WATER BEND
	WATER TEE
	WATER CROSS
	WATER SLEEVE
	WATER CAP / PLUG
	RIP RAP
	DRAINAGE FLOW
	TRAFFIC SIGNS

SURVEY SYMBOLS

	BENCHMARK LOCATION		CAST IRON MONUMENT
	CONTROL POINT		STONE MONUMENT
	MONUMENT FOUND		

EXISTING TOPOGRAPHIC LINES

	RETAINING WALL
	FENCE
	FENCE-DECORATIVE
	GUARD RAIL
	TREE LINE
	BUSH LINE

SURVEY LINES

	CONTROLLED ACCESS
	BOUNDARY
	CENTERLINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING LOT LINE
	PROPOSED LOT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	SETBACK LINE
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	TEMPORARY EASEMENT

EXISTING UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE
	RECLAIMED WATER

PROPOSED UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE
	PIPE CASING
	TRENCHLESS PIPE (PLAN VIEW)
	TRENCHLESS PIPE (PROFILE VIEW)

GRADING INFORMATION

	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	PROPOSED GRADING LIMITS / SLOPE LIMITS
	PROJECT LIMITS
	PROPOSED SPOT ELEVATION
	RISE:RUN (SLOPE)

HATCH PATTERNS

	BITUMINOUS		GRAVEL
	CONCRETE		

EXISTING PRIVATE UTILITY LINES

NOTE:
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	UNDERGROUND FIBER OPTIC
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND COMMUNICATION
	OVERHEAD ELECTRIC
	OVERHEAD COMMUNICATION
	OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL :

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE: UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-22.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT
ADJ	ADJUST	GU	GUTTER	RT	RIGHT
ALT	ALTERNATE	GV	GATE VALVE	SAN	SANITARY SEWER
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
BIT	BITUMINOUS	HH	HANDHOLE	SERV	SERVICE
BLDG	BUILDING	HP	HIGH POINT	SHLD	SHOULDER
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STA	STATION
BR	BEGIN RADIUS	HYD	HYDRANT	STD	STANDARD
BV	BUTTERFLY VALVE	I	INVERT	STM	STORM SEWER
CB	CATCH BASIN	K	CURVE COEFFICIENT	TC	TOP OF CURB
C&G	CURB AND GUTTER	L	LENGTH	TE	TEMPORARY EASEMENT
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TEMP	TEMPORARY
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TNH	TOP NUT HYDRANT
CL	CENTER LINE	LT	LEFT	TP	TOP OF PIPE
CL	CLASS	MAX	MAXIMUM	TYP	TYPICAL
CLVT	CULVERT	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CON	CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN
DIA	DIAMETER	NWL	NORMAL WATER LEVEL		
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY	DRIVEWAY	PC	POINT OF CURVE	AC	ACRES
E	EXTERNAL CURVE DISTANCE	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET
ELEC	ELECTRIC	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEV	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
EOF	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	EA	EACH
ER	END RADIUS	PERM	PERMANENT	EV	EXCAVATED VOLUME
ESMT	EASEMENT	PI	POINT OF INTERSECTION	LB	POUND
EX	EXISTING	PL	PROPERTY LINE	LF	LINEAR FEET
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
F-F	FACE TO FACE	PT	POINT OF TANGENT	LV	LOOSE VOLUME
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
FM	FORCEMAIN	R	RADIUS	SY	SQUARE YARD
FO	FIBER OPTIC	R/W	RIGHT-OF-WAY		
F.O.	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE		
GRAN	GRANULAR	RET	RETAINING		

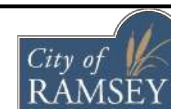
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ZACHARY F. TINGL, P.E.
LIC. NO. 56344 DATE 03/27/2025



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DESIGNED	NO.	ISSUED FOR	DATE
TJP			
ZDB			
ZFL			
CLIENT PROJ. NO.			
25-04			

CITY OF RAMSEY, MINNESOTA		SHEET
DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION		2
LEGEND		OF
		41

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	MnDOT SPEC NO.	ITEM DESCRIPTION	NOTES	UNIT	TOTAL	CITY PROJECT 25-04		
						ROADWAY	STORM SEWER	WATERMAIN
BASE BID								
1	2021.501	MOBILIZATION		LUMP SUM	1	0.60	0.13	0.27
2	2101.502	CLEARING	A	EACH	13		3	10
3	2101.502	GRUBBING	A	EACH	13		3	10
4	2104.502	SALVAGE MAIL BOX & SUPPORT		EACH	19	19		
5	2104.502	REMOVE CASTING		EACH	5	4	1	
6	2104.502	REMOVE WATERMAIN PIPE		LIN FT	1399			1399
7	2104.502	REMOVE GATE VALVE & BOX		EACH	3			3
8	2104.502	REMOVE HYDRANT WITH GATE VALVE		EACH	4			4
9	2104.502	REMOVE WATER SERVICE		LIN FT	641			641
10	2104.503	REMOVE STORM SEWER PIPE		LIN FT	124		124	
11	2104.503	REMOVE STORM SEWER STRUCTURE		EACH	3		3	
12	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)		LIN FT	595	595		
13	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)		LIN FT	95	95		
14	2104.503	REMOVE CURB AND GUTTER		LIN FT	2290	2290		
15	2104.504	REMOVE BITUMINOUS PAVEMENT		SQ YD	5000	5000		
16	2104.504	REMOVE CONCRETE PAVEMENT		SQ YD	130	130		
17	2106.507	EXCAVATION - COMMON (EV)	(P)	CU YD	1552	1552		
18	2106.507	EXCAVATION - SUBGRADE (EV)		CU YD	100	100		
19	2106.507	COMMON EMBANKMENT (CV)	(P)	CU YD	11	11		
20	2123.610	STREET SWEEPER (WITH PICKUP BROOM)		HOOR	50	50		
21	2211.507	AGGREGATE BASE (CV) CLASS 5, MODIFIED		CU YD	1060	1060		
22	2231.604	BITUMINOUS PATCH SPECIAL (DRIVEWAY)		SQ YD	385	385		
23	2357.502	BITUMINOUS TACK COAT		GAL	290	290		
24	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,C)		TON	460	460		
25	2360.509	TYPE SP 12.5 NON WEARING COURSE MIX (3,C)		TON	575	575		
26	2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V		LIN FT	42		42	
27	2503.503	27" RC PIPE SEWER DESIGN 3006 CLASS III		LIN FT	124		124	
28	2506.503	STORM SEWER HYDRAULIC STRUCTURE		LUMP SUM	1		1	
29	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPEC 1 (2'X3)		EACH	1		1	
30	2506.503	CONSTRUCT DRAINAGE STRUCTURE DES 48-4020		EACH	2		2	
31	2506.503	CONSTRUCT DRAINAGE STRUCTURE DES 60-4020		EACH	1		1	
32	2504.602	CLEAN & TELEWISE STORM SEWER		LIN FT	166		166	
33	2504.602	CLEAN & TELEWISE EXISTING SANITARY SEWER		LIN FT	1060	1060		
34	2504.602	4" INSULATION		SQ YD	40			40
35	2504.602	CONNECT TO EXISTING WATERMAIN		EACH	2			2
36	2504.602	6" GATE VALVE & BOX		EACH	4			4
37	2504.602	8" GATE VALVE & BOX		EACH	3			3
38	2504.602	HYDRANT		EACH	4			4
39	2504.602	1" CORPORATION STOP		EACH	18			18
40	2504.602	1" CURB STOP AND BOX		EACH	18			18
41	2504.603	1" TYPE K COPPER WATER SERVICE		LIN FT	670			670
42	2504.603	6" WATERMAIN DUCTILE IRON CL 53		LIN FT	70			70
43	2504.603	8" C900 PVC WATERMAIN		LIN FT	1340			1340
44	2504.608	WATERMAIN FITTINGS		POUND	590			590
45	2504.601	TEMPORARY WATER SERVICE		LUMP SUM	1			1
46	2504.602	ADJUST VALVE BOX		EACH	2	2		
47	2506.502	CASTING ASSEMBLY (SANITARY SEWER)		EACH	4	4		
48	2506.502	CASTING ASSEMBLY (STORM SEWER)		EACH	5		5	
49	2506.502	ADJUST FRAME & RING CASTING		EACH	6	4	2	
50	2532.503	CONCRETE CURB AND GUTTER DESIGN SURMOUNTABLE		LIN FT	2230	2230		
51	2532.503	CONCRETE CURB AND GUTTER DESIGN B618		LIN FT	100	100		
52	2533.604	CONCRETE VALLEY GUTTER		SQ YD	130	130		
53	2531.504	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	130	130		
54	2540.602	INSTALL MAIL BOX & SUPPORT		EACH	19	19		
55	2563.601	TRAFFIC CONTROL		LUMP SUM	1	0.60	0.13	0.27
56	2571.502	CONIFEROUS TREE 6' HT B&B		EACH	12		3	9
57	2571.502	DECIDUOUS TREE 6' HT B&B		EACH	1			1
58	2572.503	TEMPORARY FENCE		LIN FT	300	300		
59	2573.501	STABILIZED CONSTRUCTION EXIT		LUMP SUM	1	1		
60	2573.502	STORM DRAIN INLET PROTECTION		EACH	14	14		
61	2573.503	SILT FENCE - MACHINE SLICED		LIN FT	250	250		
62	2573.503	OUTLET PROTECTION		EACH	3	3		
63	2574.505	FERTILIZER TYPE 3		POUND	300	300		
64	2574.507	COMMON TOPSOIL BORROW		CU YD	1210	1210		
65	2575.505	SEEDING		ACRE	1	1		

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	MnDOT SPEC NO.	ITEM DESCRIPTION	NOTES	UNIT	TOTAL	CITY PROJECT 25-04		
						ROADWAY	STORM SEWER	WATERMAIN
66	2575.508	SEED MIXTURE 25-151		POUND	300		300	
67	2575.508	HYDRAULIC BONDED FIBER MATRIX		POUND	3500		3500	
68	2130.523	WATER FOR DUST CONTROL	A	MGAL	60		60	
69	2575.523	WATER FOR TURF ESTABLISHMENT	A	MGAL	210		210	
70		LANDSCAPE ALLOWANCE	B	UNITS	4500		4500	

ALTERNATE 1

71	2021.501	MOBILIZATION		LUMP SUM	1			1
72	2101.502	CLEARING	A	EACH	5			5
73	2101.502	GRUBBING	A	EACH	6			6
74	2102.502	TREE TRIMMING	A	HOOR	4			4
75	2104.502	REMOVE WATERMAIN PIPE		LIN FT	377			377
76	2104.502	REMOVE WATER SERVICE		LIN FT	103			103
77	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)		LIN FT	65			65
78	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)		LIN FT	15			15
79	2104.503	REMOVE CURB AND GUTTER		LIN FT	40			40
80	2104.503	REMOVE FENCE		LIN FT	38			38
81	2104.504	REMOVE BITUMINOUS PAVEMENT		SQ YD	130			130
82	2104.504	REMOVE CONCRETE PAVEMENT		SQ YD	30			30
83	2106.507	EXCAVATION - COMMON (EV)	(P)	CU YD	332			332
84	2211.507	AGGREGATE BASE (CV) CLASS 5		CU YD	332			332
85	2231.604	BITUMINOUS PATCH SPECIAL (DRIVEWAY)		SQ YD	140			140
86	2504.602	CLEAN & TELEWISE EXISTING SANITARY SEWER		LIN FT	395			395
87	2504.602	CONNECT TO EXISTING WATERMAIN		EACH	1			1
88	2504.602	1" CORPORATION STOP		EACH	4			4
89	2504.602	1" CURB STOP AND BOX		EACH	4			4
90	2504.603	1" TYPE K COPPER WATER SERVICE		LIN FT	120			120
91	2504.603	8" C900 PVC WATERMAIN		LIN FT	385			385
92	2504.608	WATERMAIN FITTINGS		POUND	100			100
93	2504.601	TEMPORARY WATER SERVICE		LUMP SUM	1			1
94	2532.503	CONCRETE CURB AND GUTTER DESIGN B618		LIN FT	40			40
95	2563.601	TRAFFIC CONTROL		LUMP SUM	1			1
96	2571.502	CONIFEROUS TREE 6' HT B&B		EACH	1			1
97	2571.502	DECIDUOUS TREE 6' HT B&B		EACH	4			4
98	2572.503	TEMPORARY FENCE		LIN FT	155			155
99	2573.502	STORM DRAIN INLET PROTECTION		EACH	8			8
100	2573.503	SILT FENCE - MACHINE SLICED		LIN FT	200			200
101	2574.505	FERTILIZER TYPE 3		POUND	80			80
102	2574.507	COMMON TOPSOIL BORROW		CU YD	280			280
103	2575.505	SEEDING		ACRE	0.25			0.25
104	2575.508	SEED MIXTURE 25-151		POUND	80			80
105	2575.508	HYDRAULIC BONDED FIBER MATRIX		POUND	880			880
106	2130.523	WATER FOR DUST CONTROL	A	MGAL	10			10
107	2575.523	WATER FOR TURF ESTABLISHMENT	A	MGAL	50			50
108		TEMPORARY GRAVEL ROAD		LUMP SUM	1			1
109		LANDSCAPE ALLOWANCE	B	UNITS	1500			1500

NOTES:

- A. BID ITEM AS DIRECTED BY THE ENGINEER IN THE FIELD.
- B. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL LANDSCAPING TO AS GOOD OR BETTER CONDITION. SEE SPECIFICATIONS

NOTES:

- (P) - PLAN QUANTITY
- (EV) - EXCAVATED VOLUME
- (CV) - COMPACTED VOLUME
- (LV) - LOOSE VOLUME

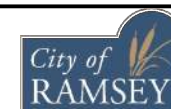
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ZACHARY F. TINGL, P.E.
LIC. NO. 56344 DATE 03/27/2025

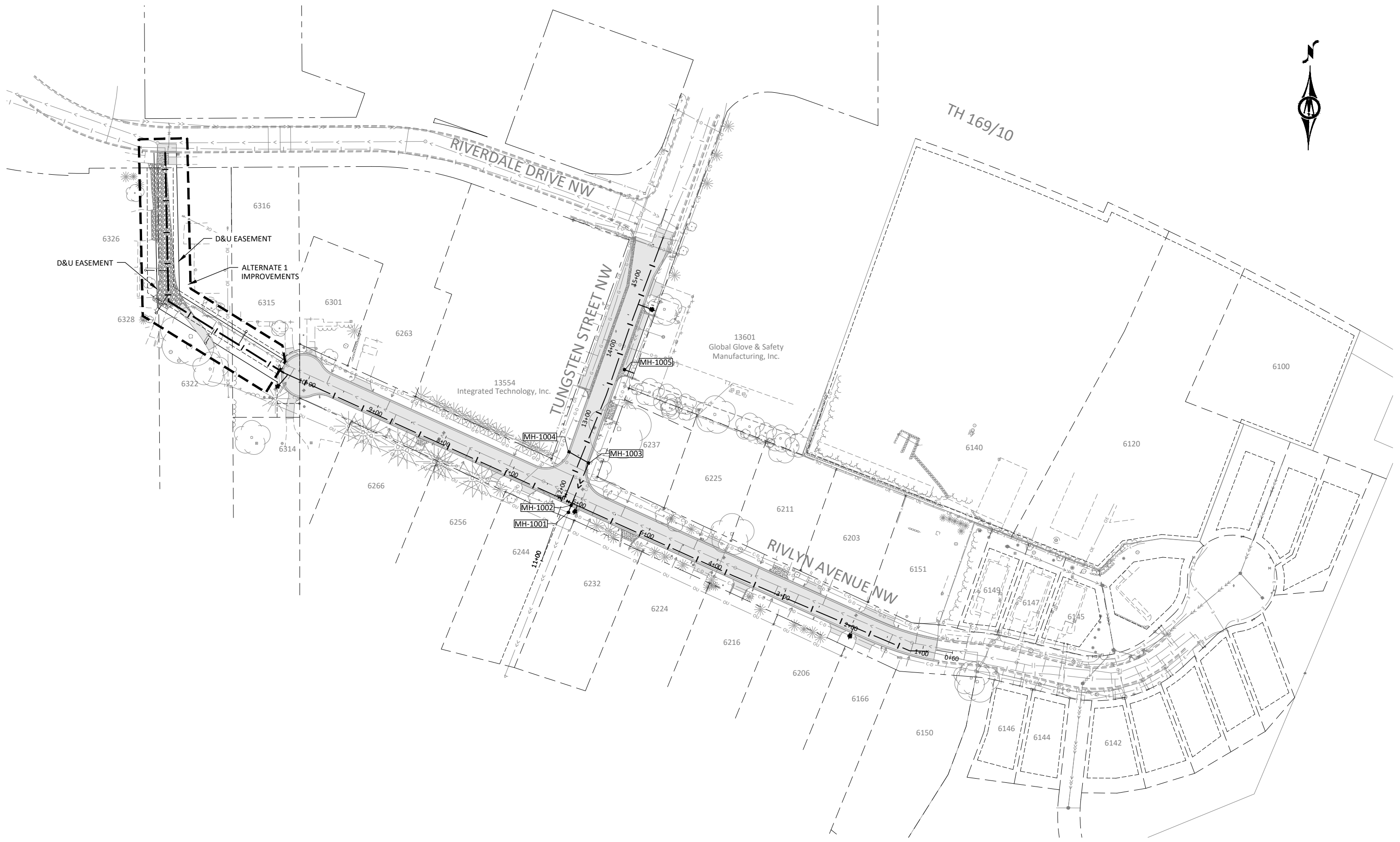


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RAMSEY, MN 55303
Phone: (763) 433-2851
Email: Ramsey@bolton-menk.com
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ZFL			
CLIENT PROJ. NO.	25-04		

CITY OF RAMSEY, MINNESOTA
DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
STATEMENT OF ESTIMATED QUANTITIES



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Zachary F. Tinkl
ZACHARY F. TINGL, P.E.
LIC. NO. 56344 DATE 03/27/2025



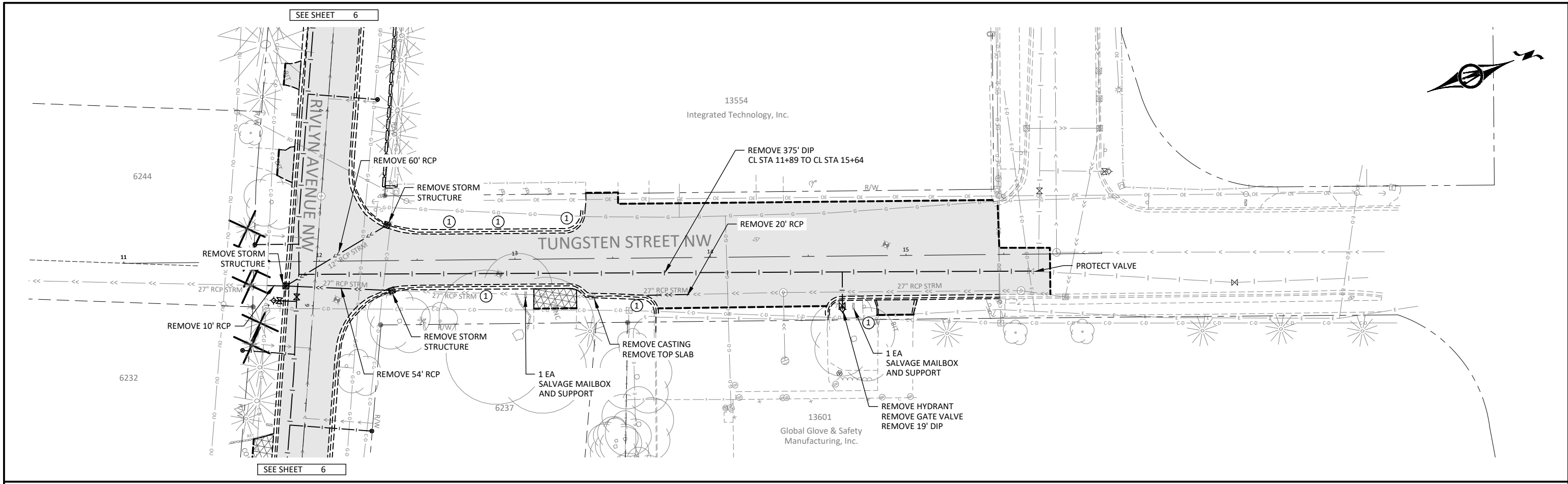
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CITY OF RAMSEY, MINNESOTA
DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
LOCATION PLAN

SHEET 4 OF 41

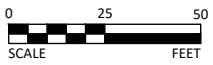


- REMOVAL NOTES**
1. CONTRACTOR SHALL CALL GOPHER STATE ONE CALL. ALL UTILITIES MUST BE LOCATED PRIOR TO THE START OF CONSTRUCTION.
 2. CONTRACTOR SHALL PROTECT ALL EXISTING VEGETATION AND INFRASTRUCTURE THAT ARE NOT BEING REMOVED OR RELOCATED.
 3. CONTRACTOR TO VERIFY REMOVAL LIMITS WITH ENGINEER PRIOR TO SAWCUTTING, INCLUDING TREE REMOVALS.

- TRAFFIC CONTROL/SIGN NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING TRAFFIC CONTROL SIGNS AND DEVICES COMPLY WITH THE REQUIREMENTS OF THE MN MUTCD AT ALL TIMES DURING CONSTRUCTION.
 2. PERMANENT SIGN REMOVAL AND INSTALLATION IS PERFORMED BY THE CITY OF RAMSEY PUBLIC WORKS DEPARTMENT.
 3. THE CONTRACTOR SHALL CONTACT THE CITY 48 HOURS IN ADVANCE OF WHEN SIGNS NEED TO BE SALVAGED.
 4. THE CITY OF RAMSEY SHALL FURNISH & INSTALL ALL NEW SIGNS.
 5. THE CONTRACTOR SHALL PROVIDE 2 WEEKS NOTICE TO THE CITY OF RAMSEY PRIOR TO THE PERMANENT SIGNS BEING REQUIRED TO BE INSTALLED/REINSTALLED.

LEGEND		REMOVE BITUMINOUS PAVEMENT		CURB & GUTTER		BOLLARD POST	
	SAWCUT PAVEMENT (FULL DEPTH)		REMOVE CONCRETE PAVEMENT		EXISTING EASEMENT LINE		UTILITY MARKER - GAS
	CONSTRUCTION FENCE (ORANGE)		REMOVE AGGREGATE		EXISTING RIGHT-OF-WAY		TRANSFORMER-ELECTRIC
	REMOVE CURB & GUTTER		CLEAR & GRUB BRUSH		FENCE		PEDESTAL-COMMUNICATION
	REMOVE WATER MAIN		TREE-CONIFEROUS		UNDERGROUND GAS		PEDESTAL-ELECTRIC
	REMOVE STORM SEWER		TREE-DECIDUOUS		UNDERGROUND COMM		HANDHOLE
	REMOVE MAILBOX & SUPPORT		CLEANOUT		OVERHEAD UTILITY		POLE-UTILITY
	REMOVE DRAINAGE STRUCTURE		STORM MANHOLE		FIBER OPTIC LINE		GUY WIRE ANCHOR
	SALVAGE EXISTING SIGN		SANITARY MANHOLE		WATERMAIN		EXISTING TRAFFIC SIGN
	REMOVE TREE		SANITARY MANHOLE		SANITARY SEWER		FIRE HYDRANT VALVE
	REMOVE HYDRANT		STORM CATCH BASIN		STORM SEWER		
			FLARED END SECTION				

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ZACHARY F. TINGL, P.E.
 LIC. NO. 56344 DATE 03/27/2025



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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 EXISTING CONDITIONS & REMOVALS
 TUNGSTEN ST NW

LEGEND

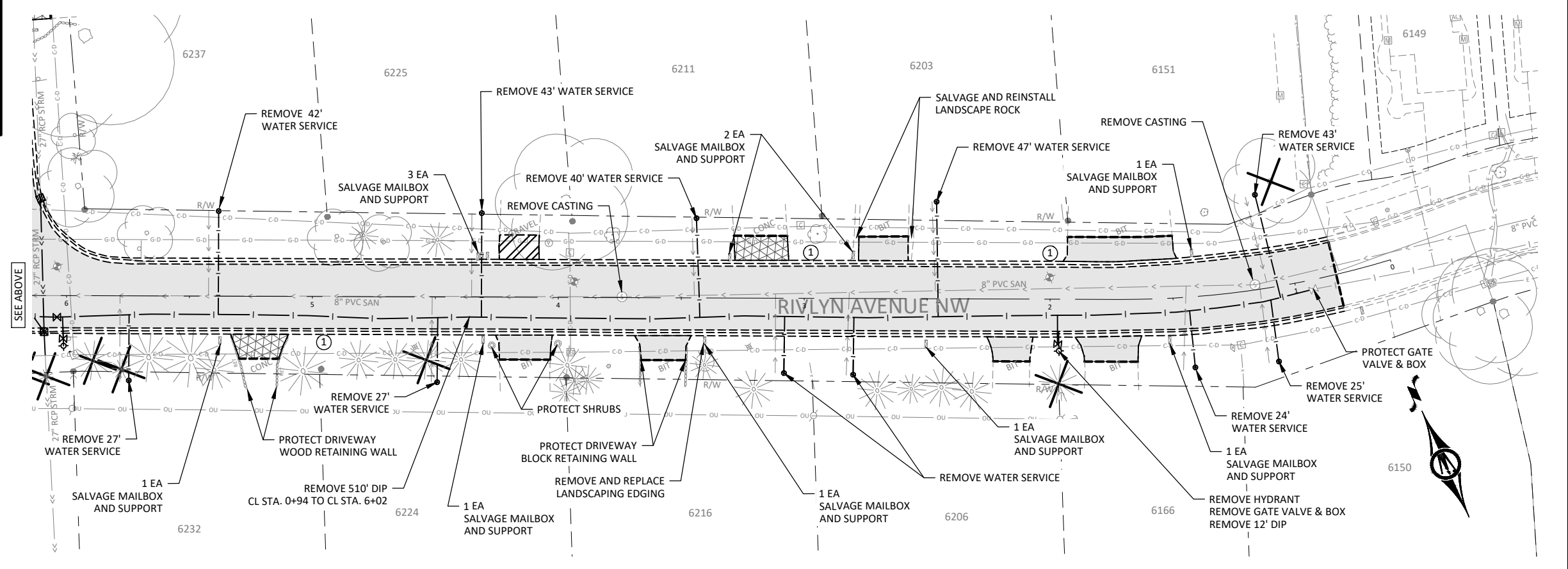
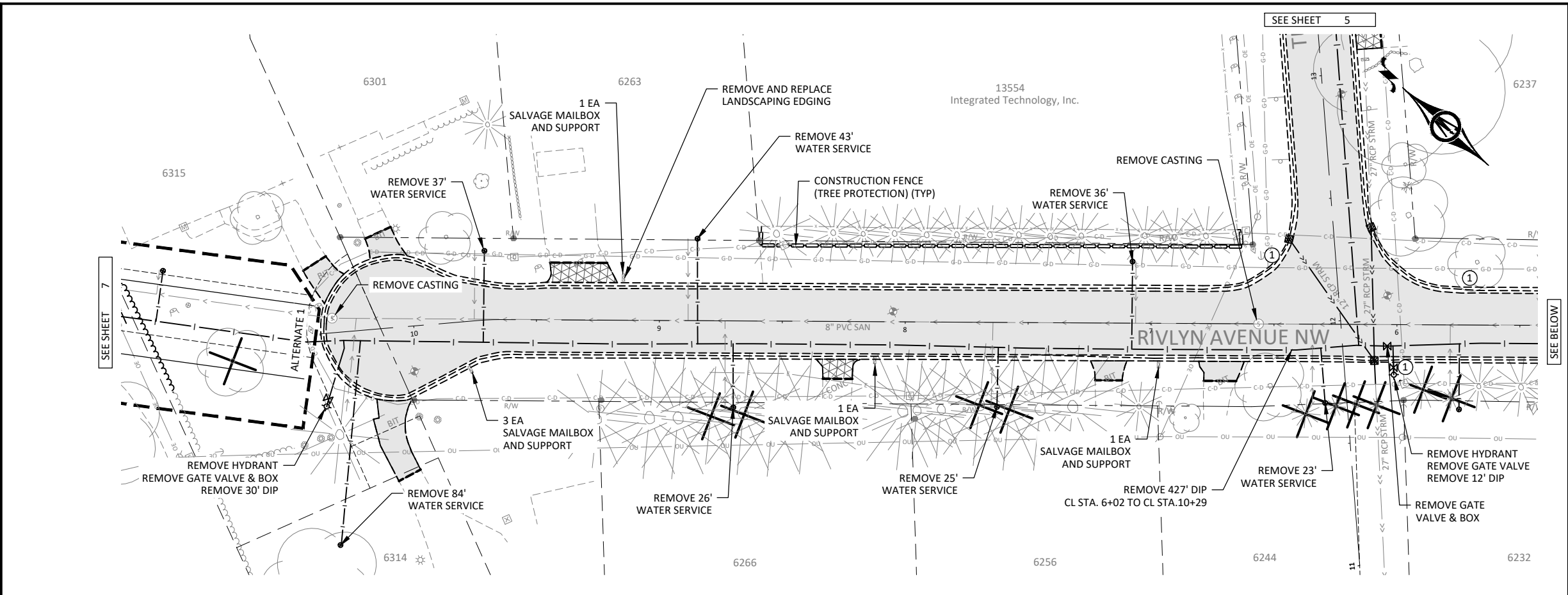
- SAWCUT PAVEMENT (FULL DEPTH)
- CONSTRUCTION FENCE (ORANGE)
- REMOVE CURB & GUTTER
- REMOVE WATER MAIN
- REMOVE STORM SEWER
- REMOVE MAILBOX & SUPPORT
- REMOVE DRAINAGE STRUCTURE
- SALVAGE EXISTING SIGN
- REMOVE TREE
- REMOVE HYDRANT
- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE AGGREGATE
- CLEAR & GRUB BRUSH
- TREE-CONIFEROUS
- TREE-DECIDUOUS
- CLEANOUT
- STORM MANHOLE
- SANITARY MANHOLE
- STORM CATCH BASIN
- FLARED END SECTION
- CURB & GUTTER
- EXISTING EASEMENT LINE
- EXISTING RIGHT-OF-WAY
- FENCE
- UNDERGROUND GAS
- UNDERGROUND COMM
- OVERHEAD UTILITY
- FIBER OPTIC LINE
- WATERMAIN
- SANITARY SEWER
- STORM SEWER
- BOLLARD
- POST
- UTILITY MARKER - GAS
- TRANSFORMER-ELECTRIC
- PEDESTAL-COMMUNICATION
- PEDESTAL-ELECTRIC
- HANDHOLE
- POLE-UTILITY
- GUY WIRE ANCHOR
- EXISTING TRAFFIC SIGN
- FIRE HYDRANT
- VALVE

REMOVAL NOTES

1. CONTRACTOR SHALL CALL GOPHER STATE ONE CALL. ALL UTILITIES MUST BE LOCATED PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR SHALL PROTECT ALL EXISTING VEGETATION AND INFRASTRUCTURE THAT ARE NOT BEING REMOVED OR RELOCATED.
3. CONTRACTOR TO VERIFY REMOVAL LIMITS WITH ENGINEER PRIOR TO SAWCUTTING, INCLUDING TREE REMOVALS.

TRAFFIC CONTROL/SIGN NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING TRAFFIC CONTROL SIGNS AND DEVICES COMPLY WITH THE REQUIREMENTS OF THE MNMUTCD AT ALL TIMES DURING CONSTRUCTION.
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3. THE CONTRACTOR SHALL CONTACT THE CITY 48 HOURS IN ADVANCE OF WHEN SIGNS NEED TO BE SALVAGED.
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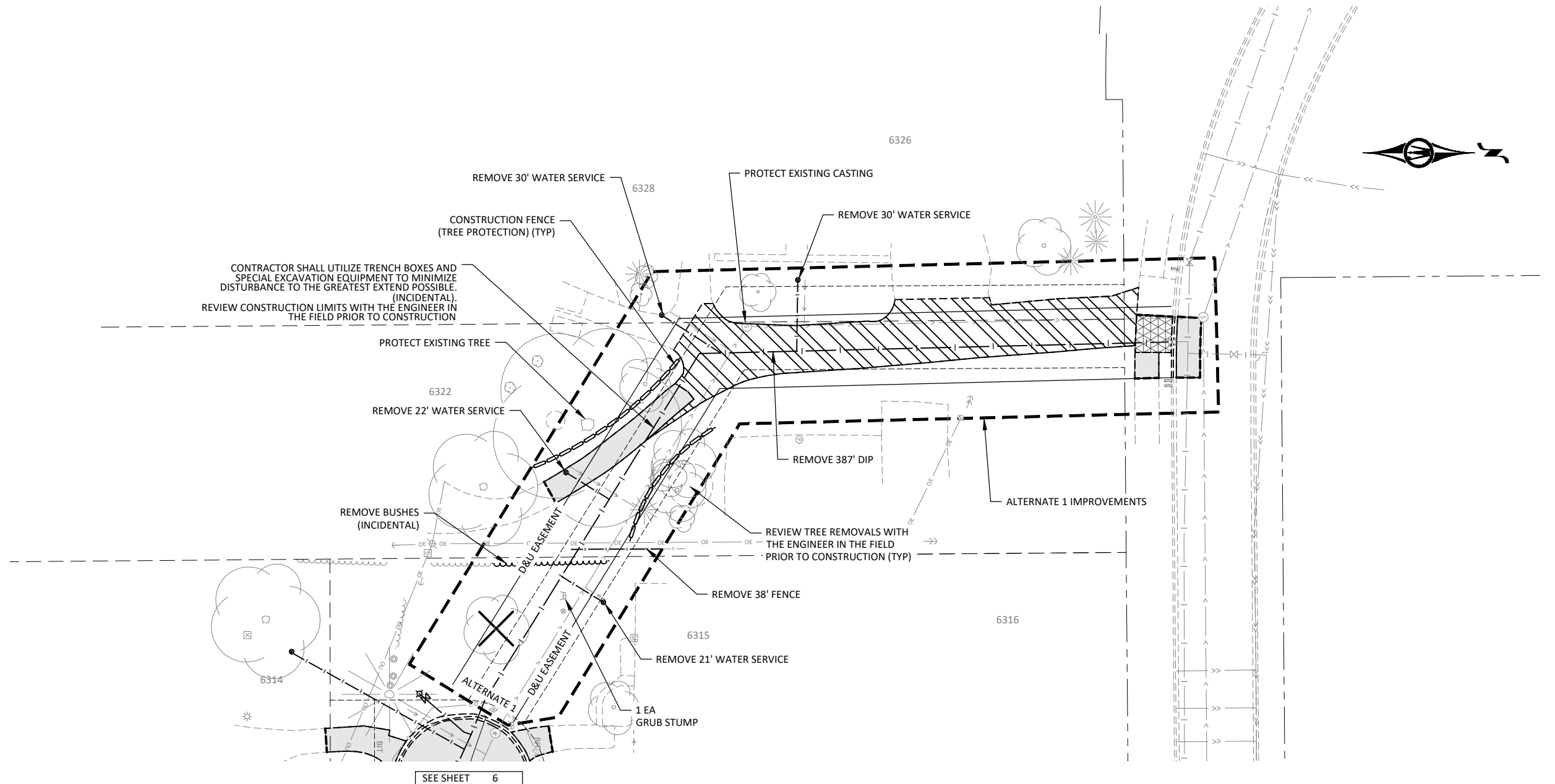
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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 EXISTING CONDITIONS & REMOVALS
 RIVLYN AVE NW

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CONTRACTOR SHALL UTILIZE TRENCH BOXES AND SPECIAL EXCAVATION EQUIPMENT TO MINIMIZE DISTURBANCE TO THE GREATEST EXTEND POSSIBLE. (INCIDENTAL). REVIEW CONSTRUCTION LIMITS WITH THE ENGINEER IN THE FIELD PRIOR TO CONSTRUCTION

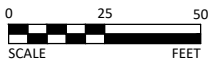
SEE SHEET 6

LEGEND	
	SAWCUT PAVEMENT (FULL DEPTH)
	CONSTRUCTION FENCE (ORANGE)
	REMOVE CURB & GUTTER
	REMOVE WATER MAIN
	REMOVE STORM SEWER
	REMOVE MAILBOX & SUPPORT
	REMOVE DRAINAGE STRUCTURE
	SALVAGE EXISTING SIGN
	REMOVE TREE
	REMOVE HYDRANT
	REMOVE BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE AGGREGATE
	CLEAR & GRUB BRUSH
	TREE-CONIFEROUS
	TREE-DECIDUOUS
	CLEANOUT
	STORM MANHOLE
	SANITARY MANHOLE
	STORM CATCH BASIN
	FLARED END SECTION
	CURB & GUTTER
	EXISTING EASEMENT LINE
	EXISTING RIGHT-OF-WAY
	FENCE
	UNDERGROUND GAS
	UNDERGROUND COMM
	OVERHEAD UTILITY
	FIBER OPTIC LINE
	WATERMAIN
	SANITARY SEWER
	STORM SEWER
	BOLLARD POST
	UTILITY MARKER - GAS
	TRANSFORMER-ELECTRIC
	PEDESTAL-COMMUNICATION
	PEDESTAL-ELECTRIC
	HANDHOLE
	POLE-UTILITY
	GUY WIRE ANCHOR
	EXISTING TRAFFIC SIGN
	FIRE HYDRANT VALVE

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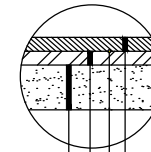
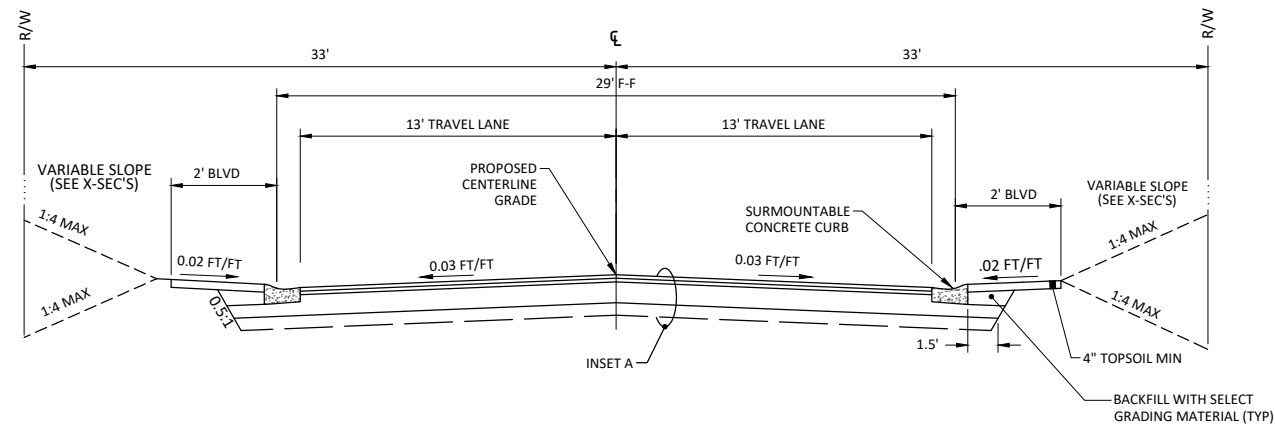


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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 EXISTING CONDITIONS & REMOVALS
 ALTERNATE 1

TYPICAL SECTION

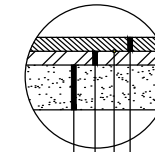
NOT TO SCALE
RIVLYN AVENUE NW
STA: 0+82.94 TO STA: 9+64.66



1.5" TYPE SP 9.5 WEARING COURSE (SPWEA340C) (2360)
BITUMINOUS TACK COAT (2357) (INCIDENTAL)
2" TYPE SP 12.5 NON WEARING COURSE (SPNWB330C) (2360)
6" AGGREGATE BASE CL 5, MOD (2211) (SEE STR-26)
SUBGRADE PREPARATION (2112) (INCIDENTAL)

INSET A - BITUMINOUS ROADWAY

NOT TO SCALE



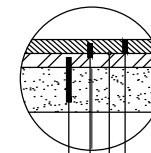
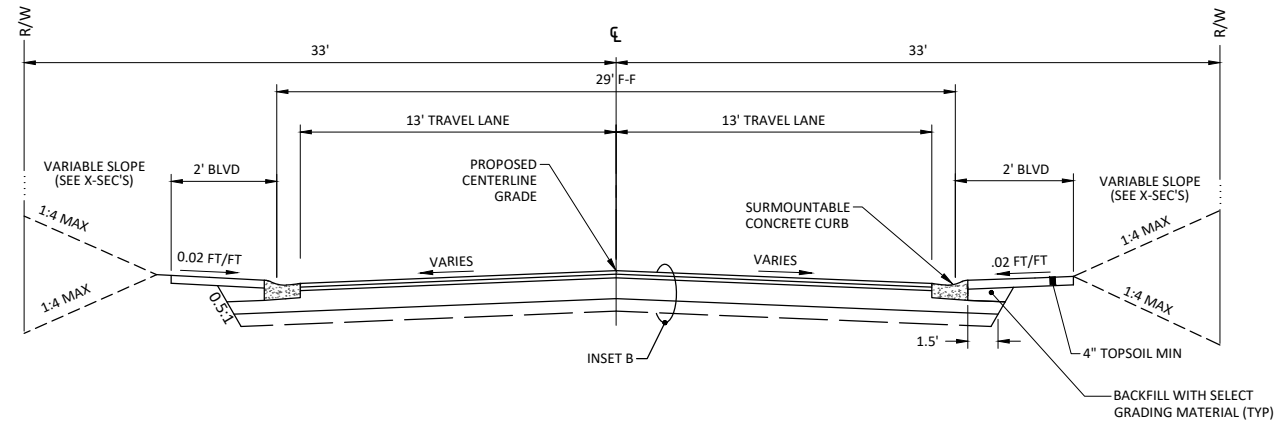
2" TYPE SP 9.5 WEARING COURSE (SPWEA340C) (2360)
BITUMINOUS TACK COAT (2357) (INCIDENTAL)
2" TYPE SP 12.5 NON WEARING COURSE (SPNWB330C) (2360)
6" AGGREGATE BASE CL 5, MOD (2211) (SEE STR-26)
SUBGRADE PREPARATION (2112) (INCIDENTAL)

INSET C - COMMERCIAL BITUMINOUS DRIVEWAY

NOT TO SCALE

TYPICAL SECTION

NOT TO SCALE
TUNGSTEN STREET NW
STA: 12+51.45 TO STA: 13+50



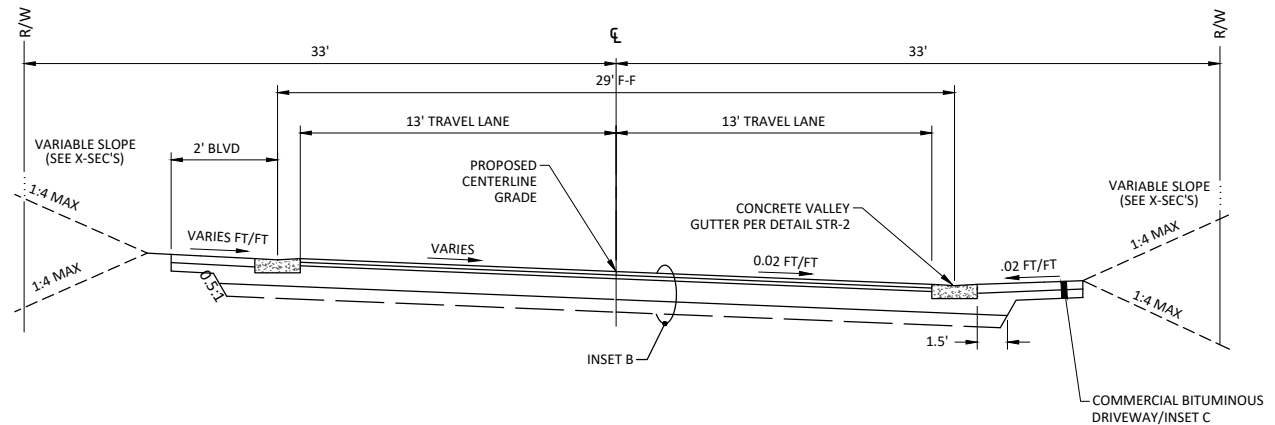
2" TYPE SP 9.5 WEARING COURSE (SPWEA340C) (2360)
BITUMINOUS TACK COAT (2357) (INCIDENTAL)
2" TYPE SP 12.5 NON WEARING COURSE (SPNWB330C) (2360)
6" AGGREGATE BASE CL 5, MOD (2211) (SEE STR-26)
SUBGRADE PREPARATION (2112) (INCIDENTAL)

INSET B - BITUMINOUS ROADWAY

NOT TO SCALE

TYPICAL SECTION

NOT TO SCALE
TUNGSTEN STREET NW
STA: 13+50 TO STA: 14+90



NOTES:

- CONTRACTOR SHALL VERIFY EXISTING PAVEMENT SECTION PRIOR TO RECLAMATION. RECLAMATION PROCEDURES SHALL NOT START WITHOUT PRIOR APPROVAL FROM ENGINEER.
- TYPICAL SECTION DOES NOT REPRESENT DIMENSIONS AT INTERSECTIONS. SEE PLAN SHEETS FOR INTERSECTION LAYOUT.

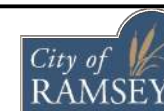
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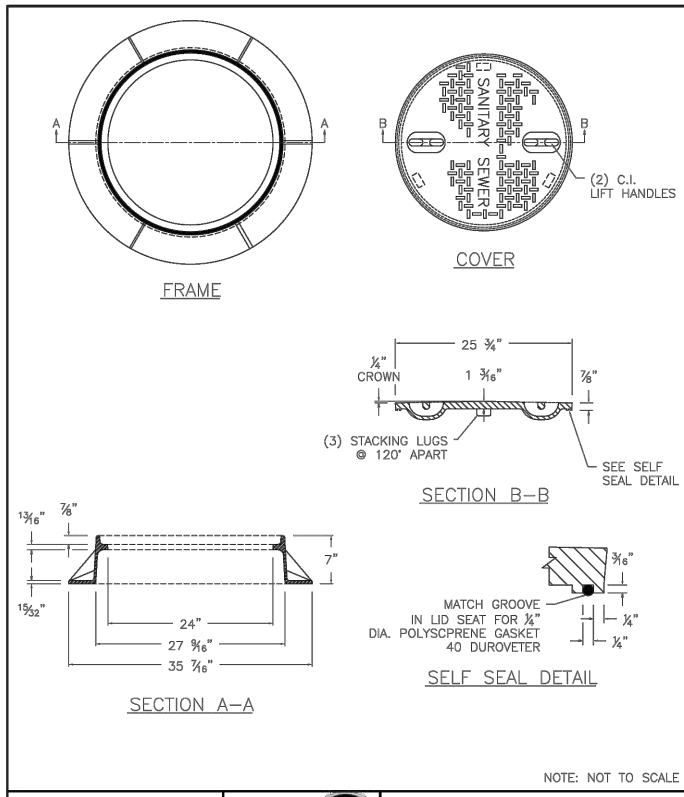


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CITY OF RAMSEY, MINNESOTA
DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION

TYPICAL SECTIONS

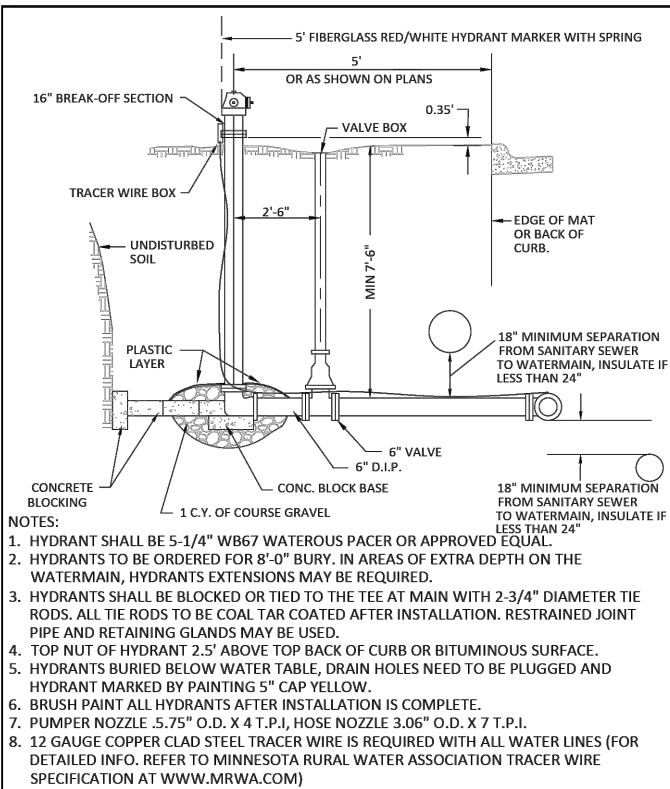
SHEET
8
OF
41



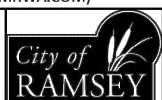
APPROVED:
11 - 2015



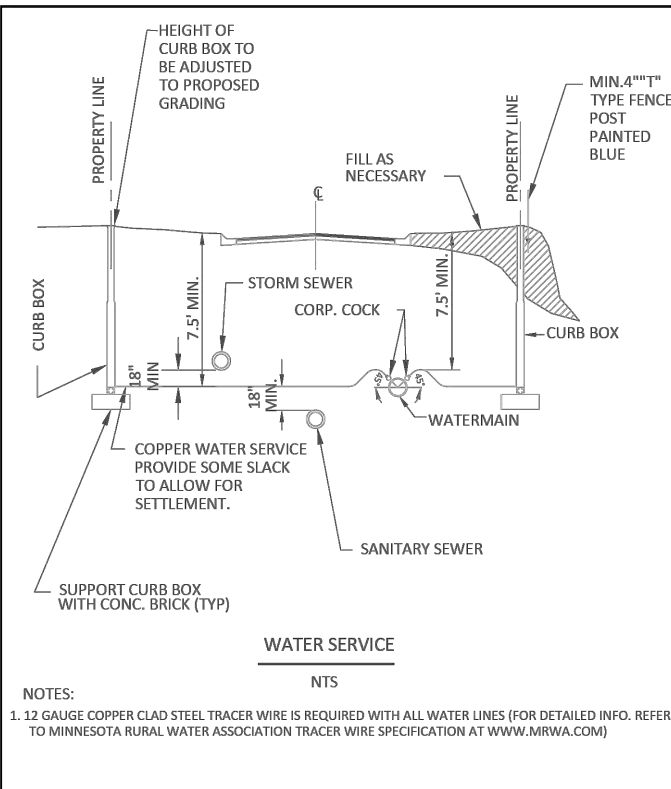
STANDARD DETAILS:
WATER TIGHT CASTING
CITY PLATE No. SEW-2



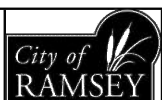
APPROVED:
1 - 2024



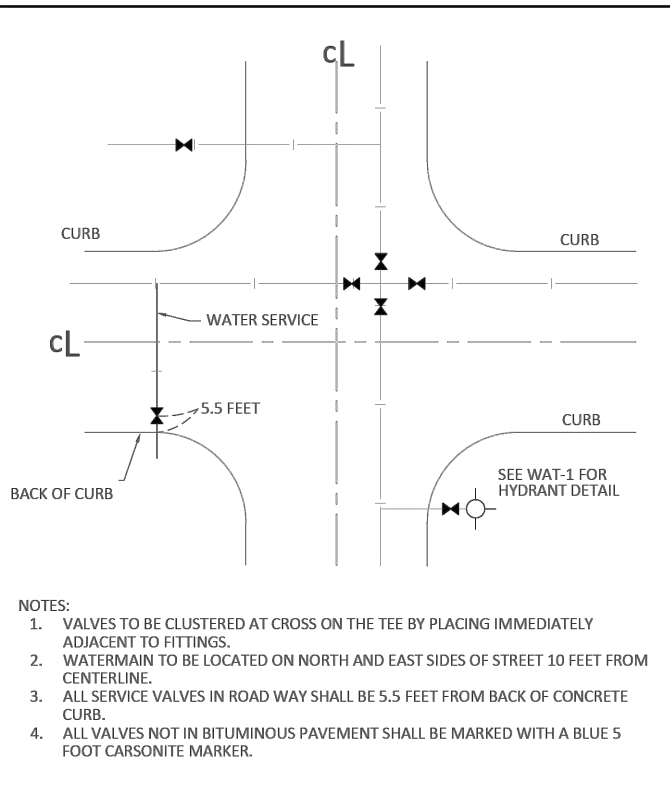
STANDARD DETAILS:
HYDRANT
CITY PLATE No. WAT-1



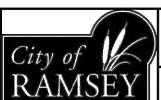
APPROVED:
1 - 2024



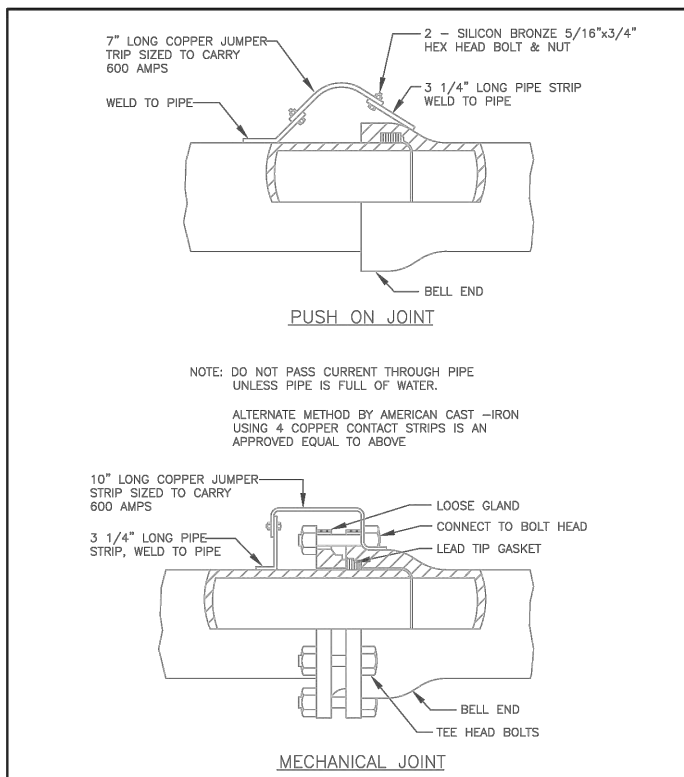
STANDARD DETAILS:
WATER SERVICE
CITY PLATE No. WAT-2



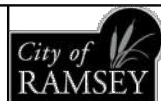
APPROVED:
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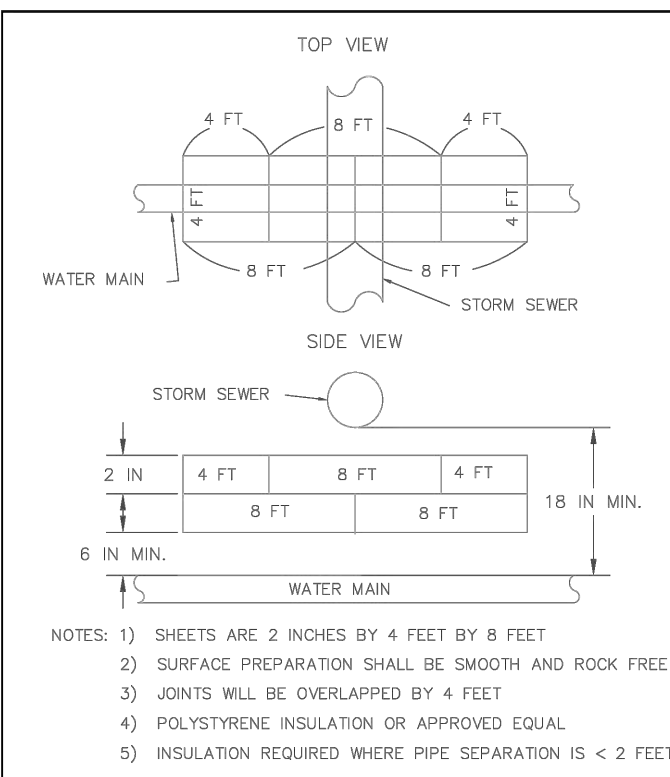
STANDARD DETAILS:
WATERMAIN VALVE LOCATION
CITY PLATE No. WAT-3



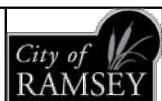
APPROVED:
1 - 2016



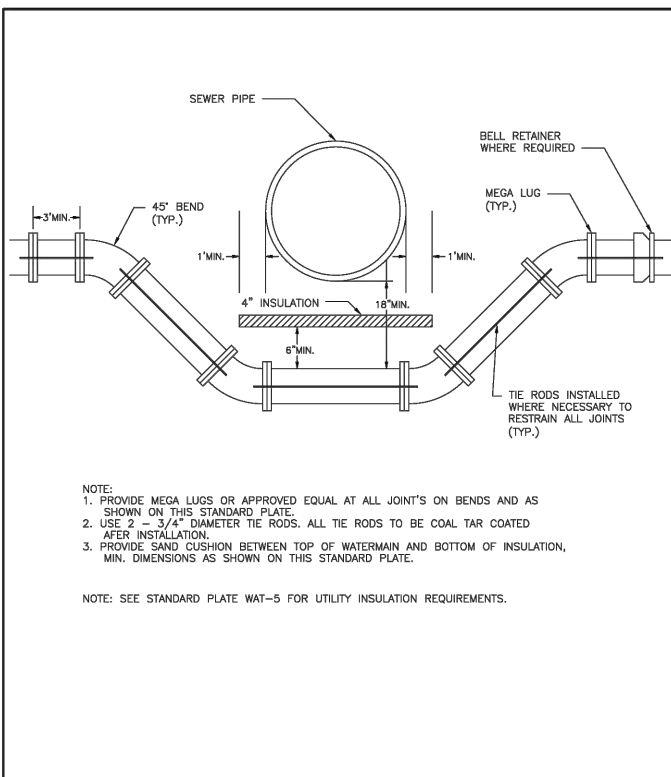
STANDARD DETAILS:
JOINT CONNECTION
CITY PLATE No. WAT-4



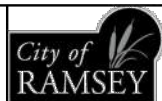
APPROVED:
3 - 2022



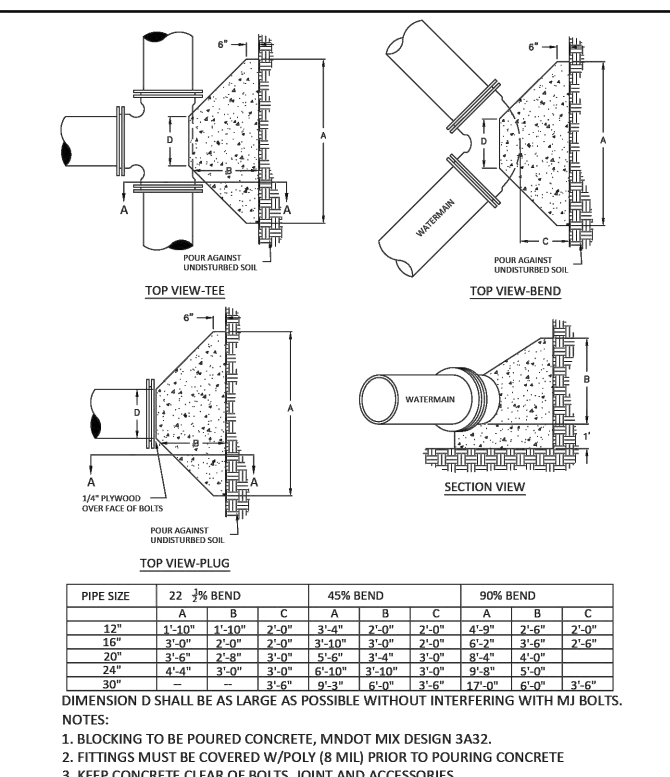
STANDARD DETAILS:
WATER MAIN INSULATION
CITY PLATE No. WAT-6



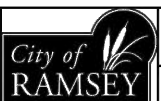
APPROVED:
6 - 2015



STANDARD DETAILS:
WATERMAIN LOWERING
CITY PLATE No. WAT-7



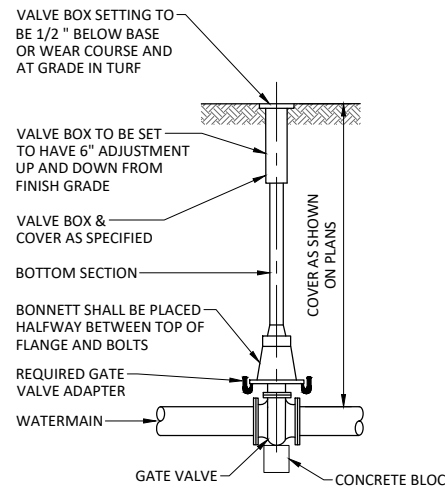
APPROVED:
1 - 2024



STANDARD DETAILS:
THRUST BLOCKS
CITY PLATE No. WAT-8

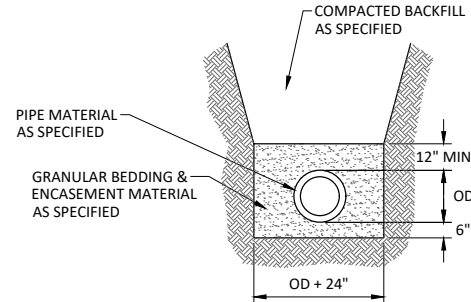
NOTES:

1. VALVE BOX SHALL BE CENTERED ON OPERATING NUTS, STRAIGHT, FREE FROM DEBRIS, AND ALL SECTIONS UNBROKEN
2. VALVES IN EASEMENTS SHALL HAVE CHANNEL POST WITNESS MARKERS WITH REFLECTIVE "GV" SIGN
3. DEEP VALVES SHALL HAVE NUT EXTENSIONS INSTALLED TO ELEVATION TO ACCOMMODATE STANDARD 10' KEY; BOTTOM NUT SHALL BE BOLTED TO VALVE NUT AND ONLY ONE SECTION
4. COMPACTION WITH MECHANICAL TAMPER AROUND VALVE BOX SHALL BE PLACED AND COMPACTED WITH 2' LIFTS TO ACHIEVE 95% COMPACTION
5. GATE VALVES LOCATED WITHIN THE CONCRETE SIDEWALK SHALL INCLUDE A METAL SEPARATOR BETWEEN THE VALVE BOX AND THE CONCRETE



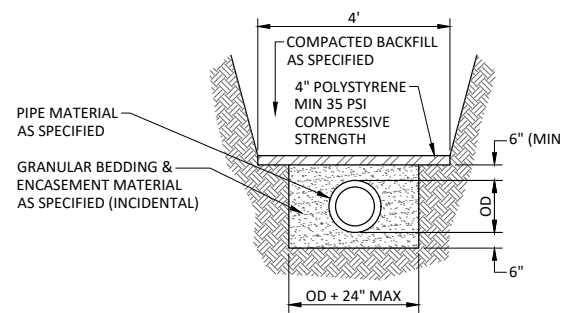
GATE VALVE BOX INSTALLATION
NOT TO SCALE

LAST REVISION:
04-2021
PLATE NO.
6-402



PVC WATERMAIN TRENCH
NOT TO SCALE

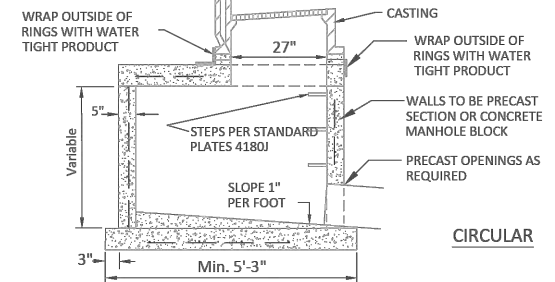
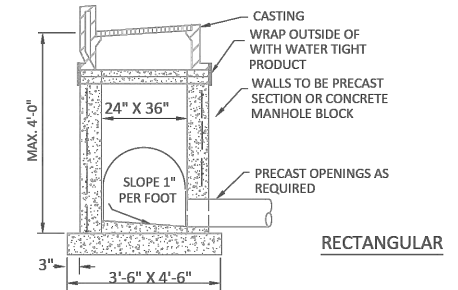
LAST REVISION:
04-2021
PLATE NO.
6-200



WATERMAIN INSULATION
NOT TO SCALE

LAST REVISION:
04-2021
PLATE NO.
6-202

A 5 FT. GREEN CARSONITE MARKER SHALL BE INSTALLED NEXT TO ALL STRUCTURES NOT IN A PAVED OR HARD SURFACE



NOTES:

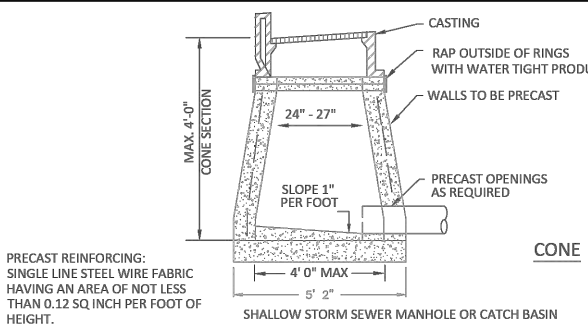
1. MANHOLE INVERT SHALL SLOPED TO PROVIDE A SMOOTH FLOW FROM INLET TO OUTLET
2. CONCRETE BASE SHALL BE 6" Poured IN PLACE OR 5" PRECAST SLAB
3. CONCRETE ADJUSTING RINGS TO BE INSTALLED MAX 7-2" RINGS, MIN 2-2" RINGS
4. GROUT BETWEEN RINGS, SHIMS SHALL BE METAL, CONCRETE OR PLASTIC
5. INSPECTION OF MANHOLE REQUIRED BEFORE BACKFILLING
6. A 12 GAUGE COPPER CLAD STEEL TRACER WIRE IS REQUIRED WITH ALL STORM LINES
7. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE
8. TRACER WIRES ARE TO END IN STRUCTURES, AT FINISHED GRADE ON ALL SERVICES AND STUBS
9. STEPS ARE REQUIRED IF STRUCTURE FROM THE CASTING TO THE INVERT IS GREATER THAN 4 FEET

APPROVED:
1 - 2024

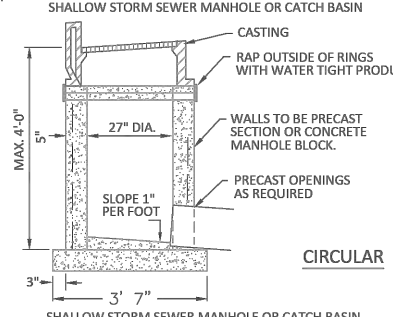


STANDARD DETAILS:
CATCH BASIN

CITY PLATE No. STO-1



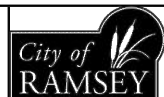
PRECAST REINFORCING:
SINGLE LINE STEEL WIRE FABRIC HAVING AN AREA OF NOT LESS THAN 0.12 SQ INCH PER FOOT OF HEIGHT.



NOTES:

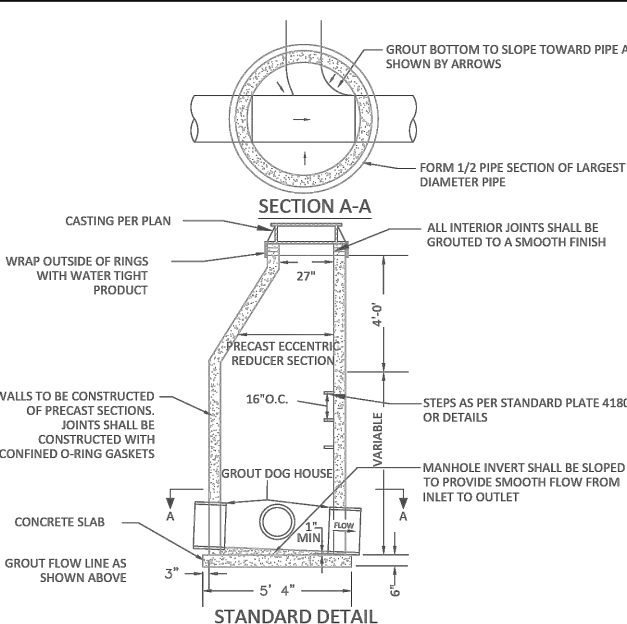
1. MANHOLE INVERT SHALL BE SLOPED TO PROVIDE A SMOOTH FLOW FROM INLET TO OUTLET
2. CONCRETE BASE SHALL BE 6" Poured IN PLACE OR 5" PRECAST SLAB
3. CONCRETE ADJUSTING RINGS TO BE INSTALLED MAX 7-2" RINGS, MIN 2-2" RINGS
4. GROUT BETWEEN RINGS, SHIMS SHALL BE METAL, CONCRETE OR PLASTIC
5. SHIMS USED FOR LEVELING SHALL BE METAL OR CONCRETE
6. A 12 GAUGE COPPER CLAD STEEL TRACER WIRE IS REQUIRED WITH ALL STORM LINES
7. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE
8. TRACER WIRES ARE TO END IN STRUCTURES, AT FINISHED GRADE ON ALL SERVICES AND STUBS

APPROVED:
1 - 2024



STANDARD DETAILS:
STORM AREA INLET

CITY PLATE No. STO-2



NOTES:

1. MANHOLE INVERT SHALL SLOPED TO PROVIDE A SMOOTH FLOW FROM INLET TO OUTLET
2. INSPECTION OF MANHOLE REQUIRED BEFORE BACKFILLING
3. ALL INLET INVERTS TO BE 0.10 ABOVE OUTLET INVERTS UNLESS OTHERWISE NOTED
4. CONCRETE ADJUSTING RINGS TO BE INSTALLED MAX 7-2" RINGS, MIN 2-2" RINGS
5. GROUT BETWEEN RINGS, SHIMS SHALL BE METAL, CONCRETE OR PLASTIC
6. A 12 GAUGE COPPER CLAD STEEL TRACER WIRE IS REQUIRED WITH ALL STORM LINES
7. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE
8. STEPS ARE REQUIRED IF STRUCTURE FROM THE CASTING TO THE INVERT IS GREATER THAN 4 FEET
9. TRACER WIRES ARE TO END IN STRUCTURES, AT FINISHED GRADE ON ALL SERVICES AND STUBS

APPROVED:
1 - 2024

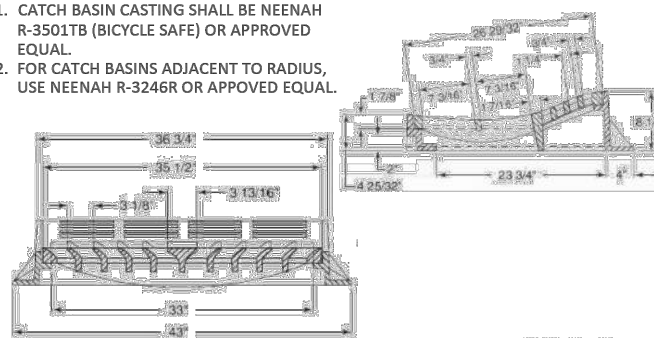


STANDARD DETAILS:
STORM MANHOLE

CITY PLATE No. STO-3

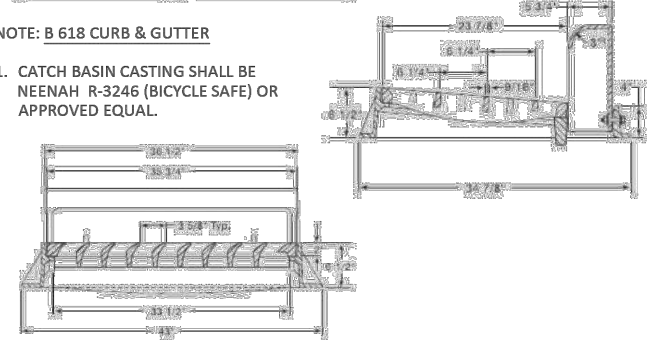
NOTE: SURMOUNTABLE CURB & GUTTER

1. CATCH BASIN CASTING SHALL BE NEENAH R-3501TB (BICYCLE SAFE) OR APPROVED EQUAL.
2. FOR CATCH BASINS ADJACENT TO RADIUS, USE NEENAH R-3246R OR APPROVED EQUAL.



NOTE: B 618 CURB & GUTTER

1. CATCH BASIN CASTING SHALL BE NEENAH R-3246 (BICYCLE SAFE) OR APPROVED EQUAL.

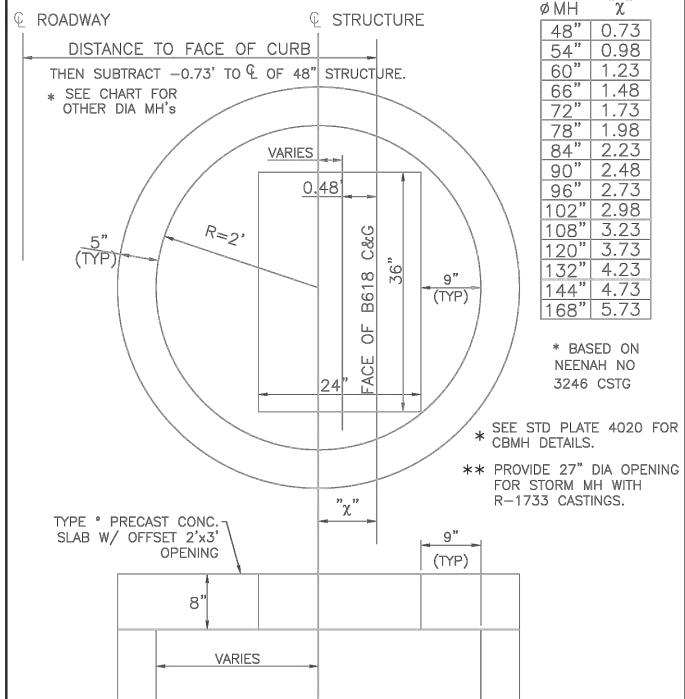


APPROVED:
1 - 2024



STANDARD DETAILS:
STORMWATER CASTING

CITY PLATE No. STO-4



Ø MH	"X"
48"	0.73
54"	0.98
60"	1.23
66"	1.48
72"	1.73
78"	1.98
84"	2.23
90"	2.48
96"	2.73
102"	2.98
108"	3.23
120"	3.73
132"	4.23
144"	4.73
168"	5.73

* BASED ON NEENAH NO 3246 CSTG
SEE STD PLATE 4020 FOR CBMH DETAILS.
** PROVIDE 27" DIA OPENING FOR STORM MH WITH R-1733 CASTINGS.

APPROVED:
4 - 2005

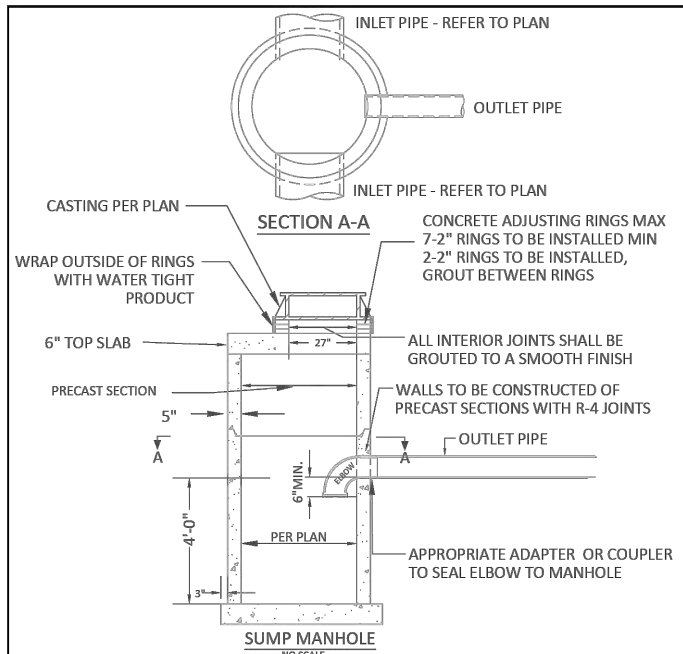


STANDARD DETAILS:
SLAB TOP MANHOLE COVER

CITY PLATE No. STO-5



DESIGNED	TJP	NO.	ISSUED FOR	DATE
DRAWN	ZDB			
CHECKED	ZFL			
CLIENT PROJ. NO.	25-04			

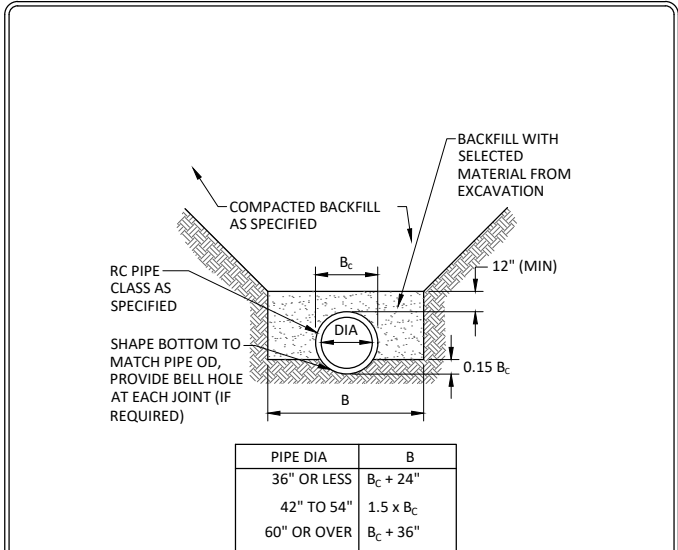


NOTES:
 1. A 12 GAUGE COPPER CLAD STEEL TRACER WIRE IS REQUIRED WITH ALL STORM LINES
 2. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE
 3. TRACER WIRES ARE TO END IN STRUCTURES, AT FINISHED GRADE ON ALL SERVICES AND STUBS
 4. STEPS WILL BE REQUIRED AT A MAXIMUM OF 3' FROM THE RIM AND 16" ON CENTER THERE AFTER
 5. 8" BASE FOR ALL MANHOLES LESS THEN 14" DEEP, INCREASE BASE THICKNESS BY 2" PER 6' OF DEPTH BEYOND 14' & REINFORCE WITH 6" X 6" & 10" X 10" MESH

APPROVED: 1 - 2024

City of RAMSEY
CITY PLATE No. STO-9

STANDARD DETAILS:
SUMP MANHOLE

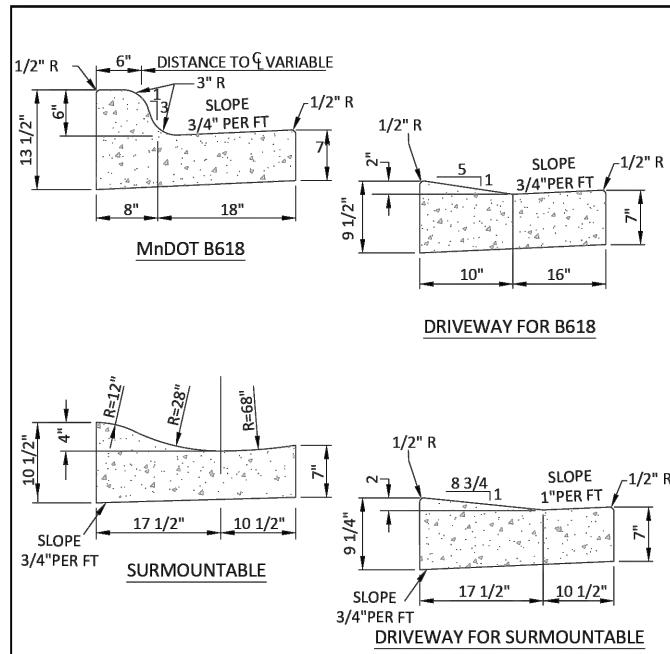


PIPE DIA	B
36" OR LESS	B _c + 24"
42" TO 54"	1.5 x B _c
60" OR OVER	B _c + 36"

BOLTON & MENK

RC PIPE
CLASS "C" BEDDING
NOT TO SCALE

LAST REVISION: 04-2021
PLATE NO. 4-000

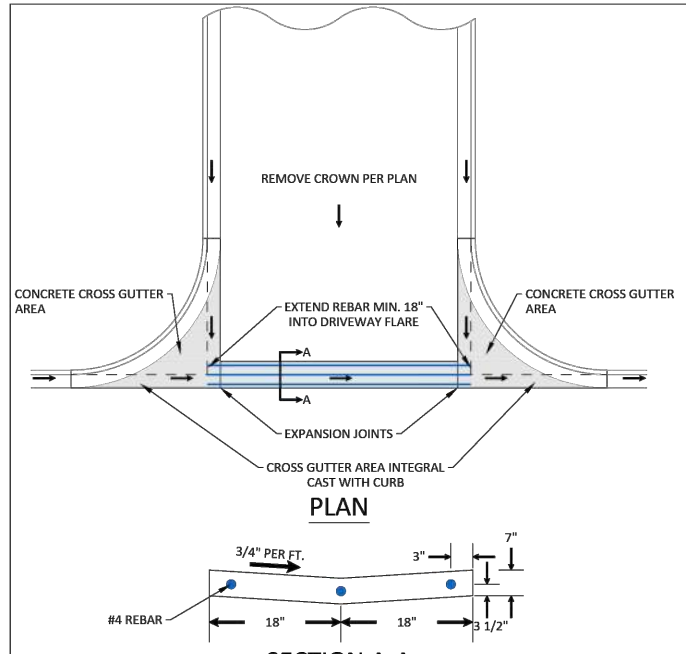


NOTES:
 1. ON WEAR COURSE MILL THE EXISTING BITUMINOUS 1.5" BY 24" IN FRONT OF THE REPLACEMENT CURB. (INCIDENTAL TO CURB REPLACEMENT)
 2. ON BASE COURSE SAW CUT AND REMOVE EXISTING BITUMINOUS 18" IN FRONT OF THE REPLACEMENT CURB. (INCIDENTAL TO CURB REPLACEMENT)

APPROVED: 10 - 2024

City of RAMSEY
CITY PLATE No. STR-1

STANDARD DETAILS:
CURB AND GUTTER

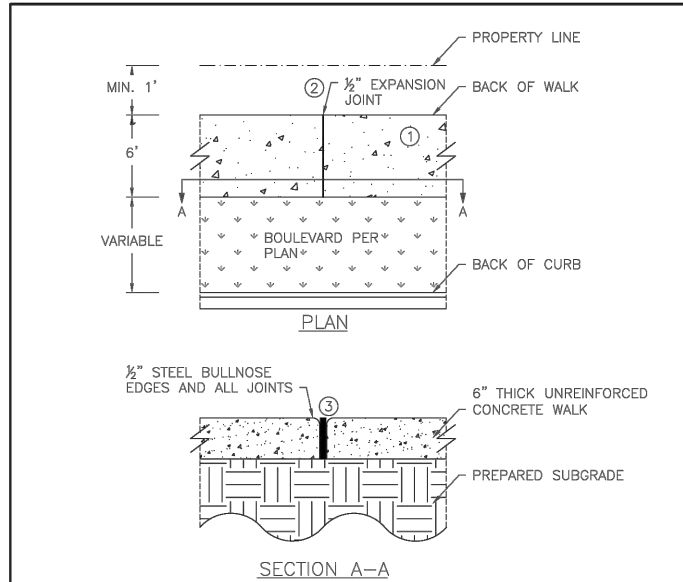


NOTES:
 1. WITH REMOVAL OF EXISTING CURB AT A STREET, MILL BITUMINOUS TO A DEPTH OF 1.5" AND A WIDTH OF 18" IN EXISTING STREET.
 2. TO BE USED WHENEVER CROSS DRAINAGE IS < 2%
 3. CONCRETE CURB AND GUTTER SHALL BE CAST INTEGRAL WITH CONCRETE CROSS GUTTER AREA.
 4. CONCRETE CURB AND GUTTER SHALL BE PAID SEPARATELY FROM CONCRETE CROSS GUTTER AREA.

APPROVED: 3 - 2017

City of RAMSEY
CITY PLATE No. STR-2

STANDARD DETAILS:
CROSS GUTTER



NOTE:
 ① BROOM FINISH CONCRETE WALK SURFACE
 ② MAXIMUM 100 FOOT SPACING BETWEEN EXPANSION JOINTS
 ③ 1/2" EXPANSION JOINT MEETING MNDOT SPEC 3702. PROVIDE ONE PIECE OF FILLER FOR THE ENTIRE DEPTH AND WIDTH OF THE JOINT

APPROVED: 10 - 2015

City of RAMSEY
CITY PLATE No. STR-3

STANDARD DETAILS:
CONCRETE SIDEWALK

TABLE A MODIFIED CLASS 5 SPECIFICATIONS

% PASSING

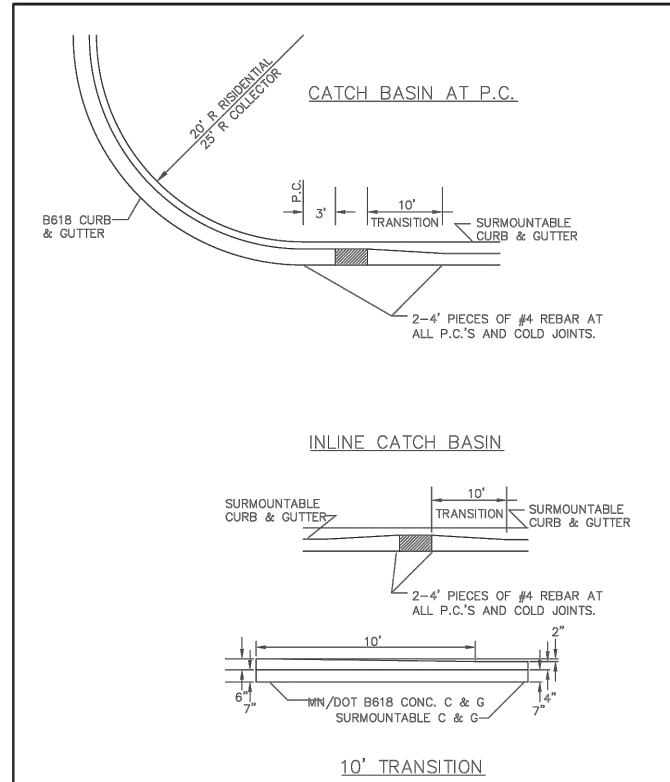
1"	100
3/4"	90 - 100
3/8"	50 - 80
No. 4	35 - 70
No. 10	20 - 60
No. 40	10 - 35
No. 200	5 - 10

NOTES:
 1. THE AGGREGATE BASE CONSTRUCTION WILL BE ACCEPTED FOR PAYMENT IN ACCORDANCE WITH THE PROVISIONS IN TABLE A.
 2. IF THE AGGREGATE BASE FAILS TO MEET THE REQUIREMENTS OF TABLE A THE MATERIAL CAN BE CORRECTED IN PLACE OR REMOVED AND REPLACED WITH MATERIAL THAT MEET THE REQUIREMENTS OF TABLE A.
 3. IN THE EVENT THAT RECYCLED MATERIAL IS USE IT MUST MEET MNDOT REQUIREMENTS FOR RECYCLED BASE.

APPROVED: 2 - 2003

City of RAMSEY
CITY PLATE No. STR-26

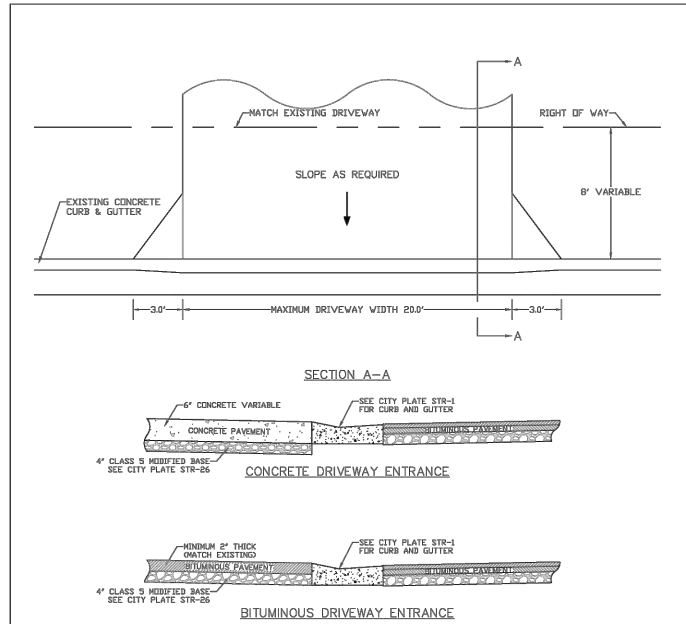
STANDARD DETAILS:
MODIFIED CLASS 5
SPECIFICATIONS



APPROVED: 4 - 2016

City of RAMSEY
CITY PLATE No. STR-27

STANDARD DETAILS:
CATCHBASIN PLACEMENT -
SURMOUNTABLE CURB



NOTES:
 1. PANEL WIDTH SHALL NOT EXCEED 10 FT. WITHOUT A CENTERLINE CONSTRUCTION JOINT.
 2. CONCRETE DRIVEWAY TO BE ONE COURSE CONCRETE PAVEMENT. (SEE SPECIAL PROVISIONS FOR CLASS OF CONCRETE.)
 3. CONCRETE DRIVEWAYS TO BE 6" THICK.
 4. 1/2" EXPANSION JOINT, 1/2" PREFORMED JOINT FILLER MATERIAL, AASHTO M 213 (REQUIRED WHEN 2 CONCRETE AREAS ARE POURED SEPERATELY.)
 5. BITUMINOUS DRIVEWAYS MINIMUM 2" THICK, MATCH EXISTING BITUMINOUS PAVEMENT THICKNESS.

APPROVED: 1 - 2016

City of RAMSEY
CITY PLATE No. STR-30

STANDARD DETAILS:
RESIDENTIAL DRIVEWAY -
NO SIDEWALK

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ZACHARY F. TINGL, P.E.
LIC. NO. 56344 DATE 03/27/2025

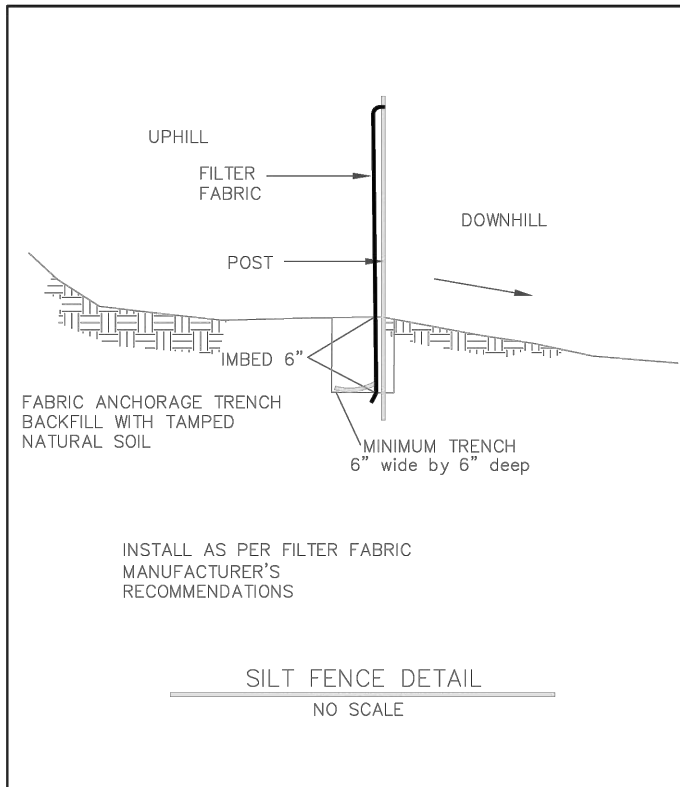


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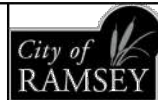


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DRAWN	ZDB		
CHECKED	ZFL		
CLIENT PROJ. NO.	25-04		

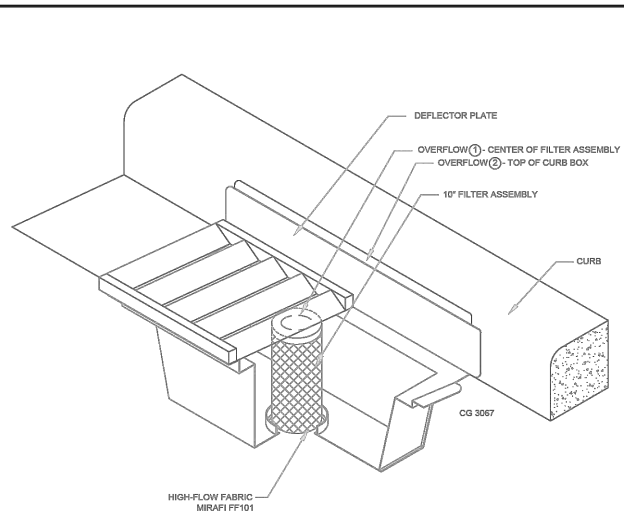
CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 STANDARD DETAILS



APPROVED:
1 - 2016



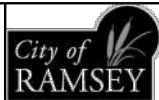
STANDARD DETAILS:
SILT FENCE
CITY PLATE No. ERO-1



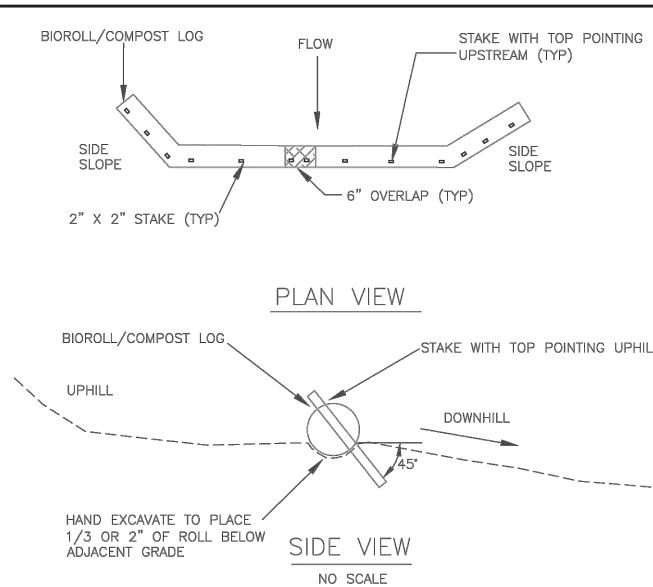
INLET PROTECTION - WIMCO OR EQUAL
N.T.S.

NOTE:
THIS INLET PROTECTION SHALL BE USED IMMEDIATELY FOLLOWING CURB & GUTTER CONSTRUCTION. INLET PROTECTION SHALL REMAIN INSTALLED AND MAINTAINED UNTIL ALL HOME CONSTRUCTION IS COMPLETE.

APPROVED:
1 - 2016

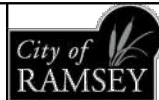


STANDARD DETAILS:
INLET PROTECTION
CITY PLATE No. ERO-2

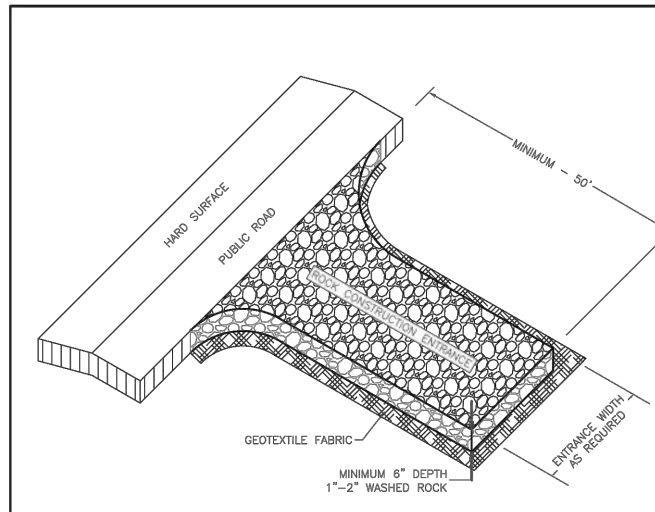


NOTE:
STAKE INTO GROUND WITH WOOD STAKES DRIVING STAKE 6" INTO GROUND AND PROTRUDING 2" ABOVE LOG
WOOD STAKES ARE A MINIMUM 0.5" X 2" X 16" AND PLACED EVERY 1' UNLESS PRECLUDED BY A ROCK
WHEN MORE THAN 1 BIOROLL/COMPOST LOG IS NEEDED, OVERLAP ENDS A MINIMUM OF 6" AND STAKE
WOOD STAKES ARE DRIVEN THROUGH BACK HALF OF BIOROLL OR COMPOST LOG AT 45° ANGLE WITH TOP OF STAKE POINTING UPHILL

APPROVED:
3 - 2016



STANDARD DETAILS:
BIO ROLL (COMPOST LOG)
CITY PLATE No. ERO-4



NOTE:
1. MINIMUM CONSTRUCTION ENTRANCE WIDTH EQUAL TO PROPOSED ROADWAY WIDTH.
2. WIDTH OF RADIUS AS REQUIRED TO ENSURE VEHICLES DO NOT TRACK ONTO PUBLIC ROAD.
3. MAINTENANCE AS REQUIRED TO PREVENT TRACKING ROCK ONTO PUBLIC ROADS. THIS MAY REQUIRE TOP DRESSING WITH ADDITIONAL ROCK OR REMOVAL AND REINSTALLATION OF THE ENTRANCE AS NEEDED.

NOT TO SCALE

APPROVED:
1 - 2016

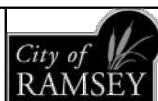


STANDARD DETAILS:
ROCK CONSTRUCTION ENTRANCE
CITY PLATE No. ERO-5

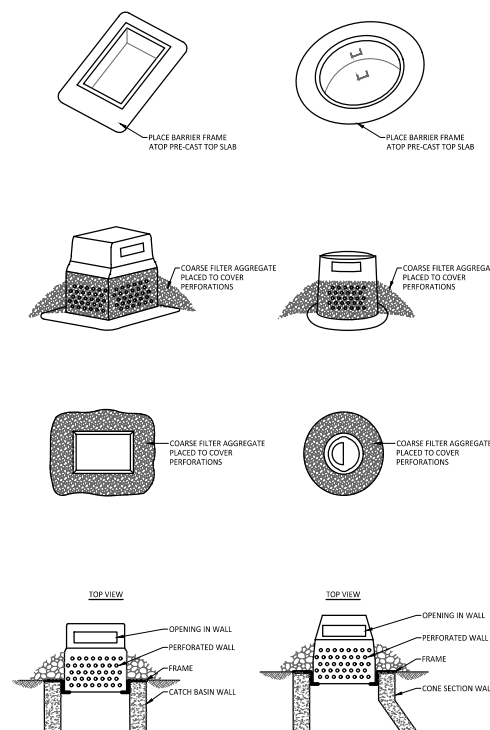
Notes:

1. INSTALLATION OF 4" OF TOPSOIL REQUIRED ACROSS ALL DISTURBED AREAS.
2. TOPSOIL IS DEFINED AS BLACK DIRT COMPOSED OF UNCONSOLIDATED MATERIAL, LARGELY UNDECOMPOSED ORGANIC MATTER WHICH IS SUITABLE FOUNDATION FOR VEGETATIVE GROWTH.
3. THE COMPOSITION OF TOPSOIL SHOULD CONTAIN NO MORE THAN THIRTY-FIVE PERCENT (35%) SAND CONTENT.

APPROVED:
7 - 2019



STANDARD DETAILS:
TOPSOIL REQUIREMENTS
CITY PLATE No. ERO-6



INLET PROTECTION PERFORATED WALL
NOT TO SCALE

LAST REVISION: 04-2023
PLATE NO. 3-107

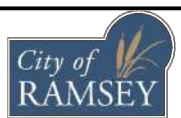
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ZACHARY F. TINGL, P.E.
LIC. NO. 56344 DATE 03/27/2025



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CITY OF RAMSEY, MINNESOTA
DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
STANDARD DETAILS

SEE SHEET 19

SEE SHEET 18

MISSISSIPPI RIVER

TUNGSTEN STREET NW

RIVERDALE DRIVE NW

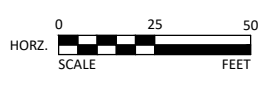
RIVLYN AVENUE NW

13601
Global Glove & Safety
Manufacturing, Inc.



LEGEND									
	INLET PROTECTION		MS SILT FENCE, TYPE MS		EXISTING CONTOUR MINOR		EXISTING TRAFFIC SIGN		CLEANOUT
	HYDRAULIC BONDED FIBER MATRIX, SEED MIX 25-151, FERTILIZER TYPE 3		EXISTING/PROPOSED DRAINAGE FLOW		EXISTING CONTOUR MAJOR		FIRE HYDRANT		STORM MANHOLE
	STABILIZED CONSTRUCTION EXIT		PROPOSED CURB & GUTTER		PROPOSED CONTOUR MINOR		VALVE		SANITARY MANHOLE
			EXISTING EASEMENT LINE		PROPOSED CONTOUR MAJOR		UTILITY MARKER - GAS		STORM CATCH BASIN
			EXISTING RIGHT-OF-WAY		UNDERGROUND GAS		TRANSFORMER-ELECTRIC		FLARED END SECTION
					UNDERGROUND COMM		PEDESTAL-COMMUNICATION		WATERMAIN
					OVERHEAD UTILITY		PEDESTAL-ELECTRIC		SANITARY SEWER
					FIBER OPTIC LINE		HANDHOLE		STORM SEWER
					TREE-CONIFEROUS		POLE-UTILITY		FENCE
					TREE-DECIDUOUS		GUY WIRE ANCHOR		BOLLARD
									POST

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LIC. NO. 56344 DATE 03/27/2025



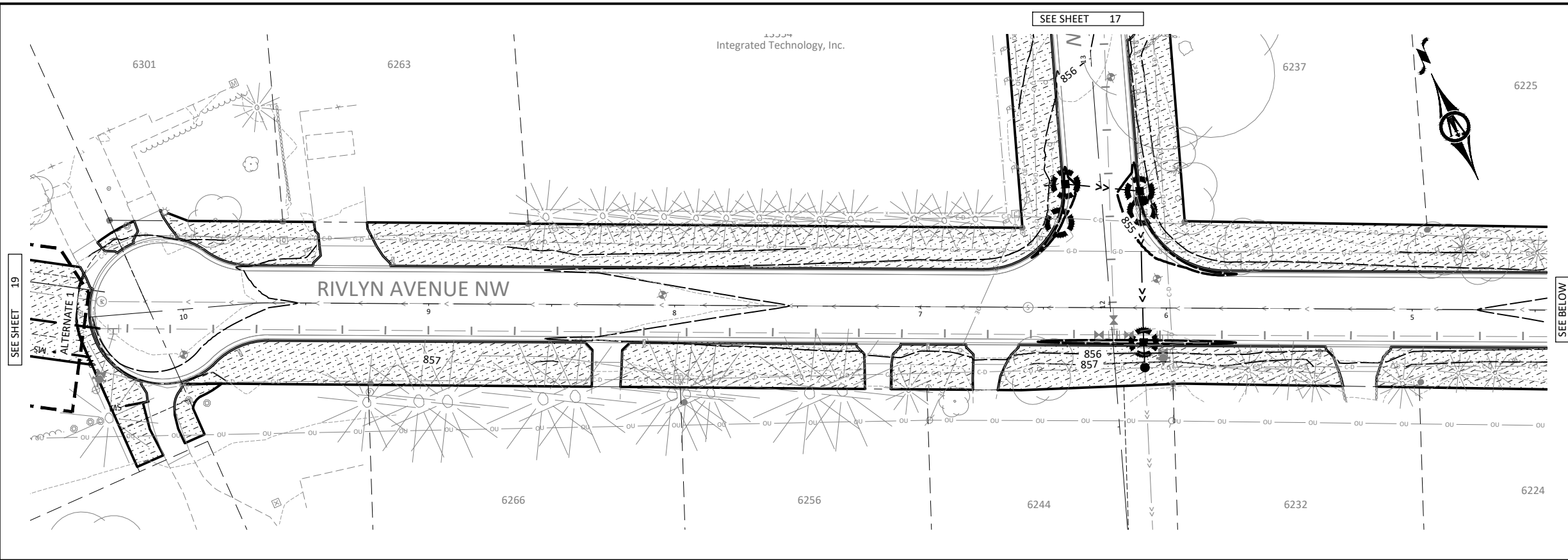
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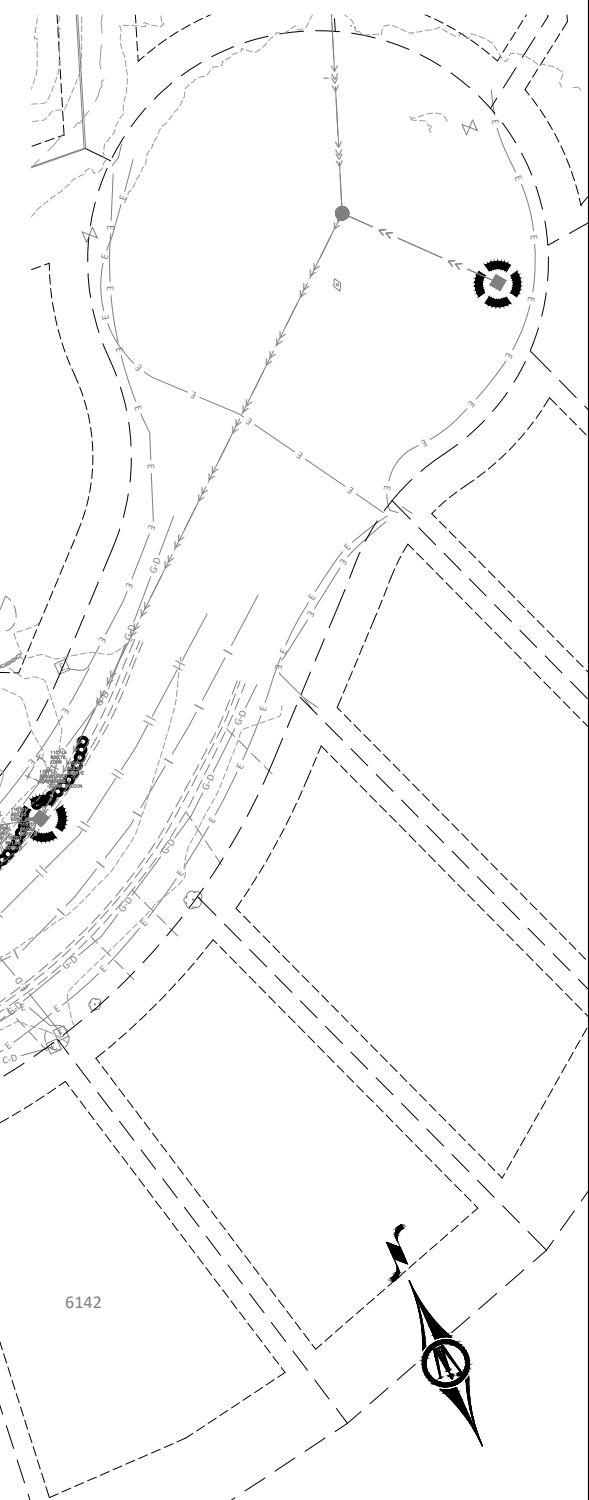
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CITY OF RAMSEY, MINNESOTA
DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
EROSION CONTROL & TURF RESTORATION
TUNGSTEN ST NW

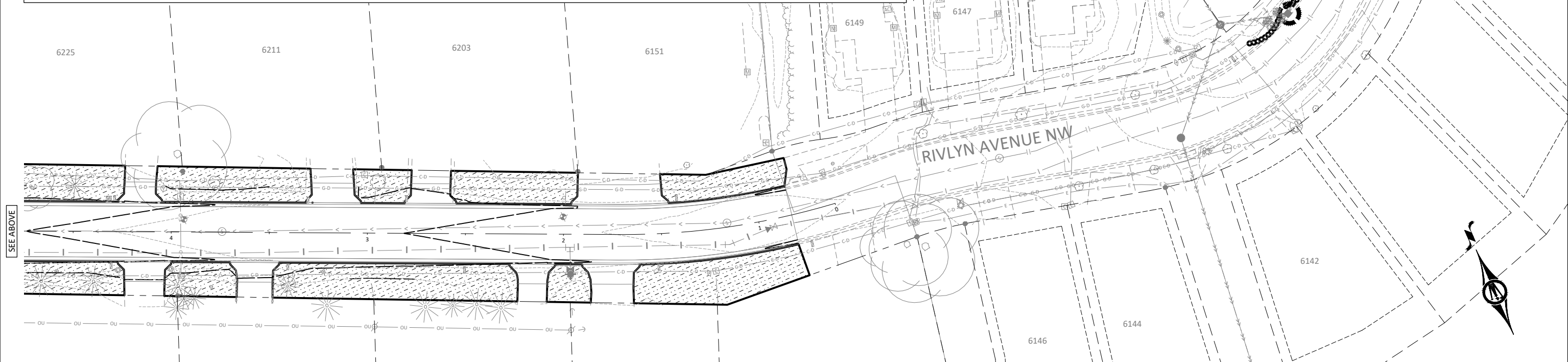
SHEET 17 OF 41



SEE BELOW



LEGEND	
	INLET PROTECTION
	HYDRAULIC BONDED FIBER MATRIX, SEED MIX 25-151, FERTILIZER TYPE 3
	STABILIZED CONSTRUCTION EXIT
	SEDIMENT CONTROL LOG
	MS SILT FENCE, TYPE MS
	EXISTING/PROPOSED DRAINAGE FLOW
	PROPOSED CURB & GUTTER
	EXISTING EASEMENT LINE
	EXISTING RIGHT-OF-WAY
	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	UNDERGROUND GAS
	UNDERGROUND COMM
	OVERHEAD UTILITY
	FIBER OPTIC LINE
	TREE-CONIFEROUS
	TREE-DECIDUOUS
	EXISTING TRAFFIC SIGN
	FIRE HYDRANT
	VALVE
	UTILITY MARKER - GAS
	TRANSFORMER-ELECTRIC
	PEDESTAL-COMMUNICATION
	PEDESTAL-ELECTRIC
	HANDHOLE
	POLE-UTILITY
	GUY WIRE ANCHOR
	CLEANOUT
	STORM MANHOLE
	SANITARY MANHOLE
	STORM CATCH BASIN
	FLARED END SECTION
	WATERMAIN
	SANITARY SEWER
	STORM SEWER
	FENCE
	BOLLARD
	POST



SEE ABOVE

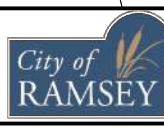


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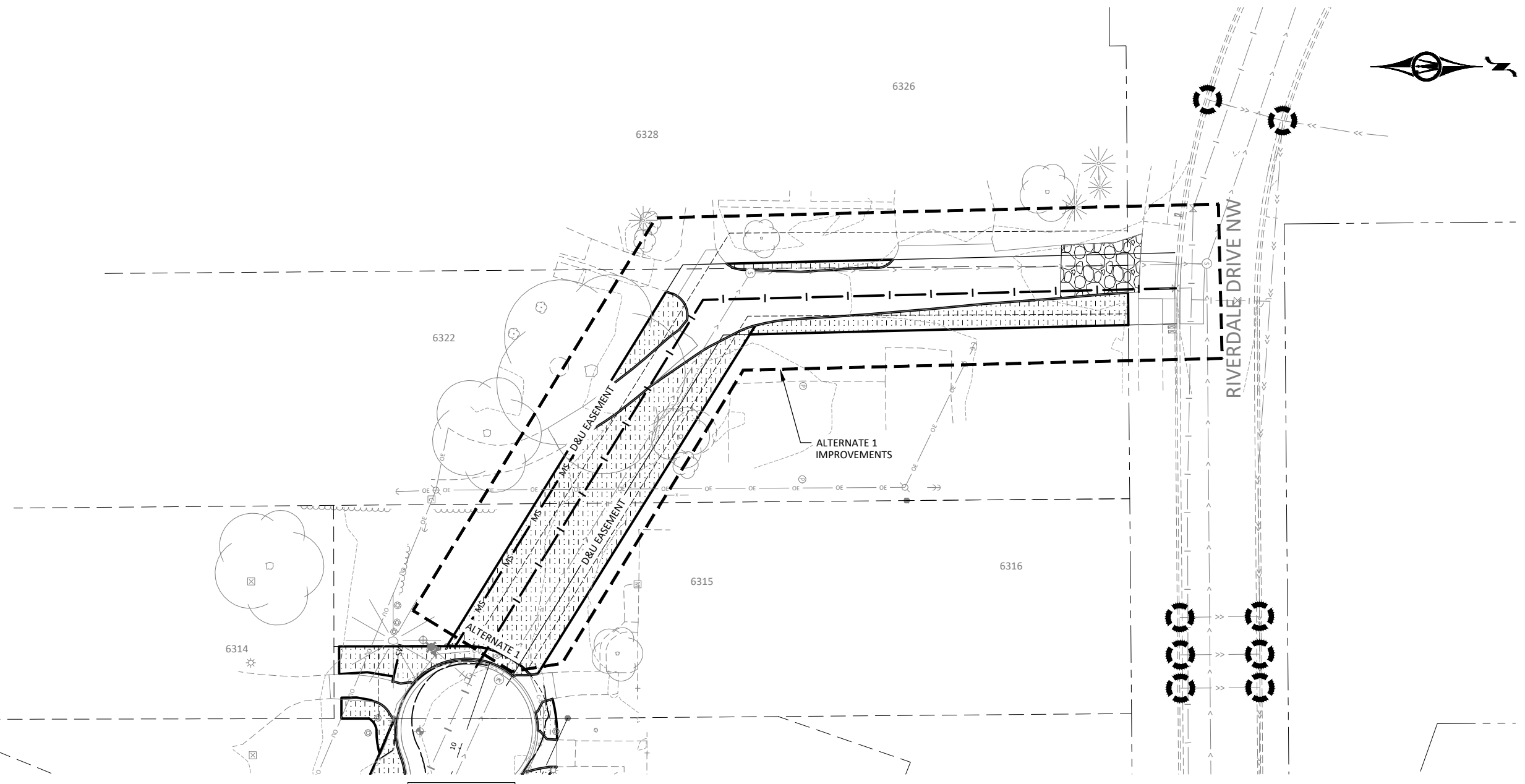


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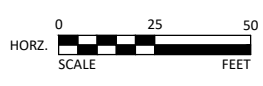
CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 EROSION CONTROL & TURF RESTORATION
 RIVLYN AVE NW



SEE SHEET 17

LEGEND		EXISTING CONTOUR MINOR		EXISTING TRAFFIC SIGN		CLEANOUT	
	INLET PROTECTION		MS		SEDIMENT CONTROL LOG		STORM MANHOLE
	HYDRAULIC BONDED FIBER MATRIX, SEED MIX 25-151, FERTILIZER TYPE 3		EXISTING/PROPOSED DRAINAGE FLOW		PROPOSED CONTOUR MAJOR		SANITARY MANHOLE
	STABILIZED CONSTRUCTION EXIT		PROPOSED CURB & GUTTER		PROPOSED CONTOUR MINOR		STORM CATCH BASIN
			EXISTING EASEMENT LINE		UNDERGROUND GAS		FLARED END SECTION
			EXISTING RIGHT-OF-WAY		UNDERGROUND COMM		WATERMAIN
					OVERHEAD UTILITY		SANITARY SEWER
					FIBER OPTIC LINE		STORM SEWER
					TREE-CONIFEROUS		FENCE
					TREE-DECIDUOUS		BOLLARD
					EXISTING TRAFFIC SIGN		POST
					FIRE HYDRANT		
					VALVE		
					UTILITY MARKER - GAS		
					TRANSFORMER-ELECTRIC		
					PEDESTAL-COMMUNICATION		
					PEDESTAL-ELECTRIC		
					HANDHOLE		
					POLE-UTILITY		
					GUY WIRE ANCHOR		

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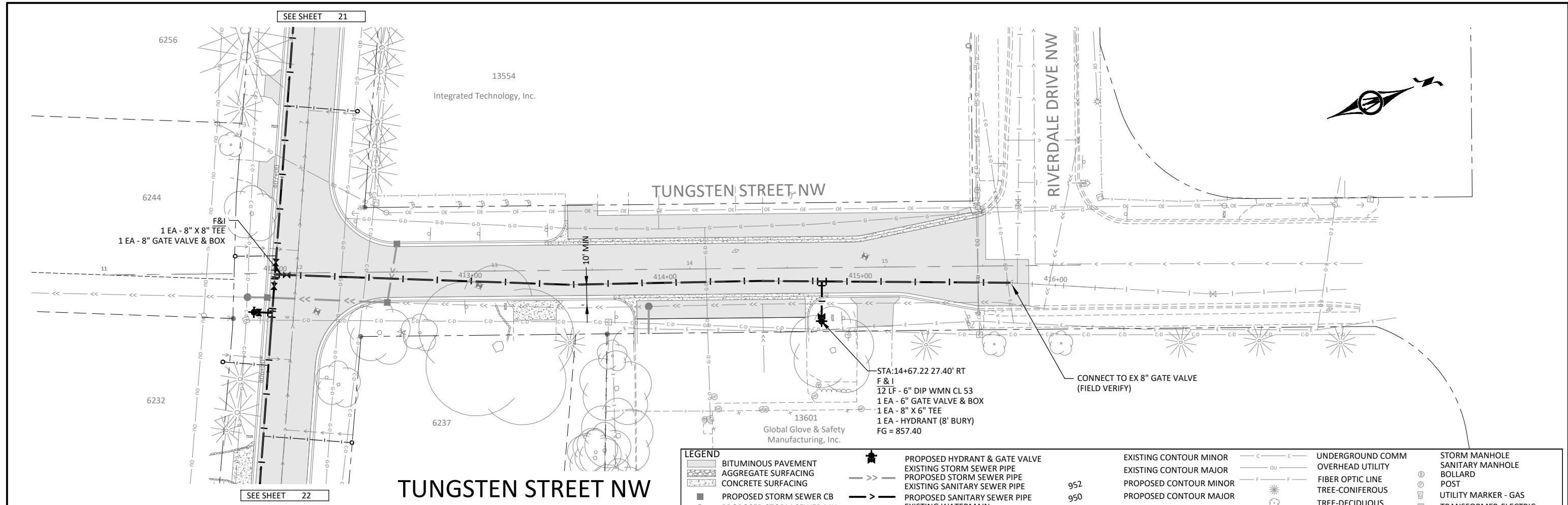
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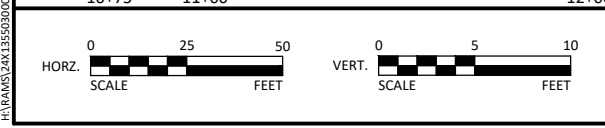
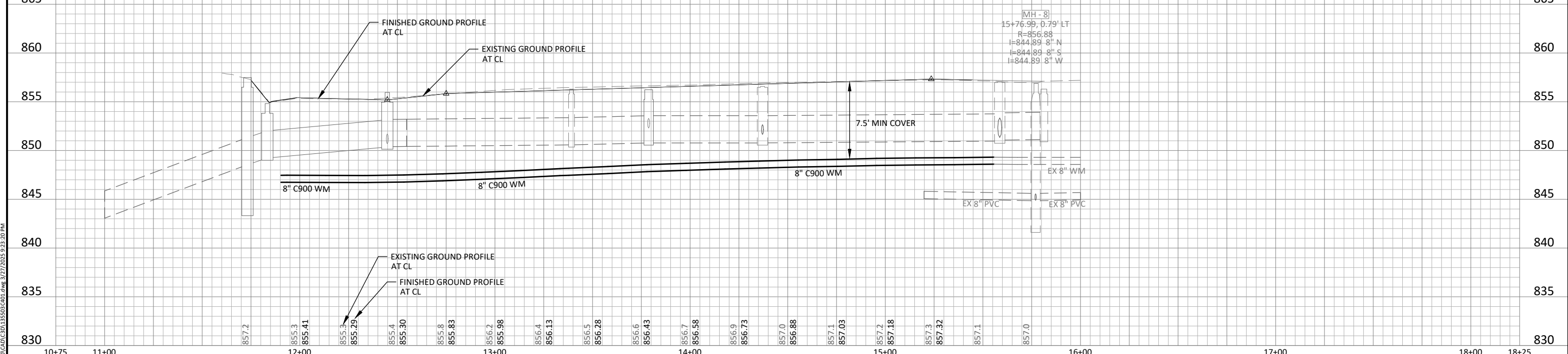
CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 EROSION CONTROL & TURF RESTORATION
 ALTERNATE 1

SHEET 19 OF 41



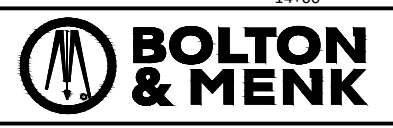
- NOTE:
- 1) SEE TITLE SHEET FOR HORIZONTAL & VERTICAL CONTROL INFORMATION.
 - 2) POLYSTYRENE ISOLATION REQUIRED BETWEEN STORM SEWER & WATERMAIN IF CLEARANCE IS LESS THAN 2 FEET. SEE CONSTRUCTION DETAILS.
 - 3) REMOVE AND REPLACE ALL EXISTING RINGS AND CASTINGS ON EXISTING SANITARY MANHOLES.
 - 4) FIELD VERIFY ALL CURB STOP LOCATIONS PRIOR TO CONSTRUCTION.

LEGEND					
	BITUMINOUS PAVEMENT		PROPOSED HYDRANT & GATE VALVE		EXISTING CONTOUR MINOR
	AGGREGATE SURFACING		EXISTING STORM SEWER PIPE		EXISTING CONTOUR MAJOR
	CONCRETE SURFACING		PROPOSED STORM SEWER PIPE		PROPOSED CONTOUR MINOR
	PROPOSED STORM SEWER CB		EXISTING SANITARY SEWER PIPE		PROPOSED CONTOUR MAJOR
	PROPOSED STORM SEWER MH		PROPOSED SANITARY SEWER PIPE		EXISTING EASEMENT LINE
	PROPOSED FLARED END SECTION		EXISTING WATERMAIN		PROPOSED EASEMENT LINE
	RANDOM RIP RAP CL III		PROPOSED WATERMAIN		EXISTING RIGHT-OF-WAY
	PROPOSED SANITARY SEWER MH		PAVEMENT MESSAGE MULTI-COMP		PROPOSED RIGHT-OF-WAY
	PROPOSED GATE VALVE		SIGN INSTALLATION (BY OTHERS)		FENCE
			CURB & GUTTER		UNDERGROUND GAS
			EXISTING CURB & GUTTER		UNDERGROUND COMM
					OVERHEAD UTILITY
					FIBER OPTIC LINE
					TREE-CONIFEROUS
					TREE-DECIDUOUS
					EXISTING TRAFFIC SIGN
					FIRE HYDRANT VALVE
					CLEANOUT
					STORM CATCH BASIN
					FLARED END SECTION
					STORM MANHOLE
					SANITARY MANHOLE
					BOLLARD
					POST
					UTILITY MARKER - GAS
					TRANSFORMER-ELECTRIC
					PEDESTAL-COMMUNICATION
					PEDESTAL-ELECTRIC
					HANDHOLE
					POLE-UTILITY
					GUY WIRE ANCHOR

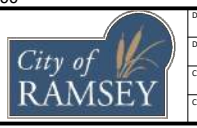


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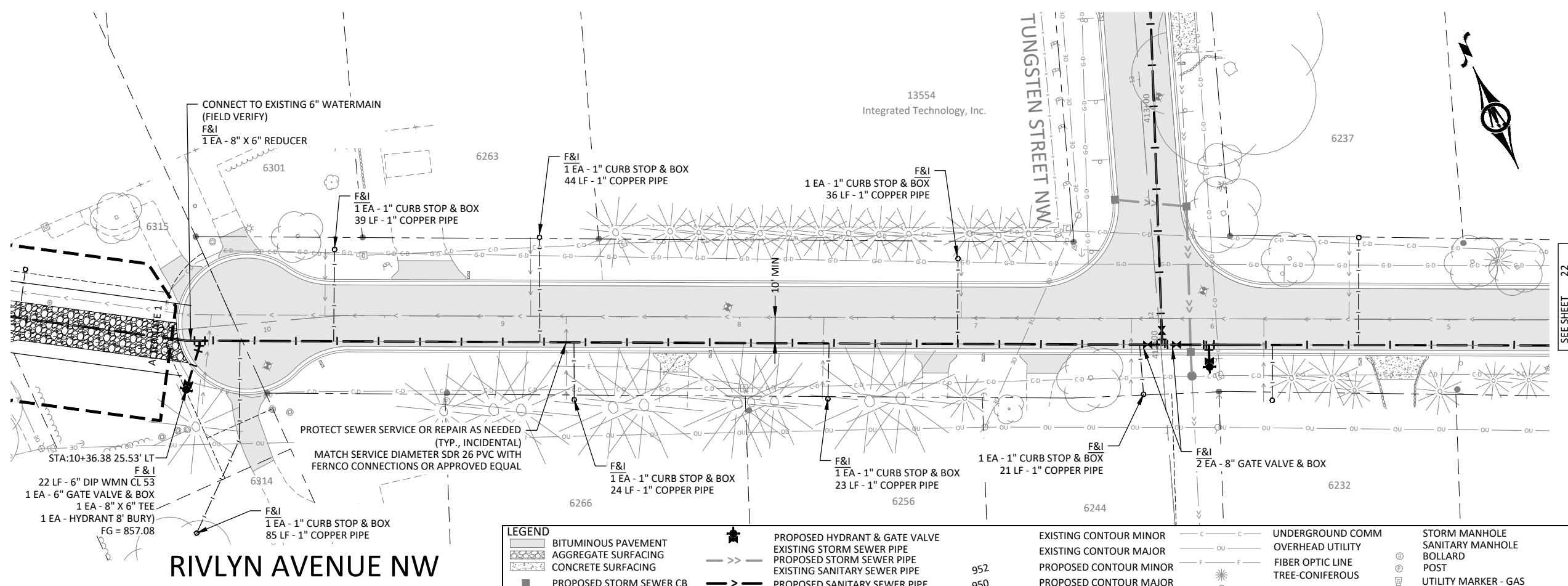


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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 WATERMAIN & SANITARY SEWER - PLAN & PROFILE
 TUNGSTEN ST NW

SHEET 20 OF 41

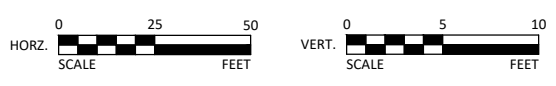
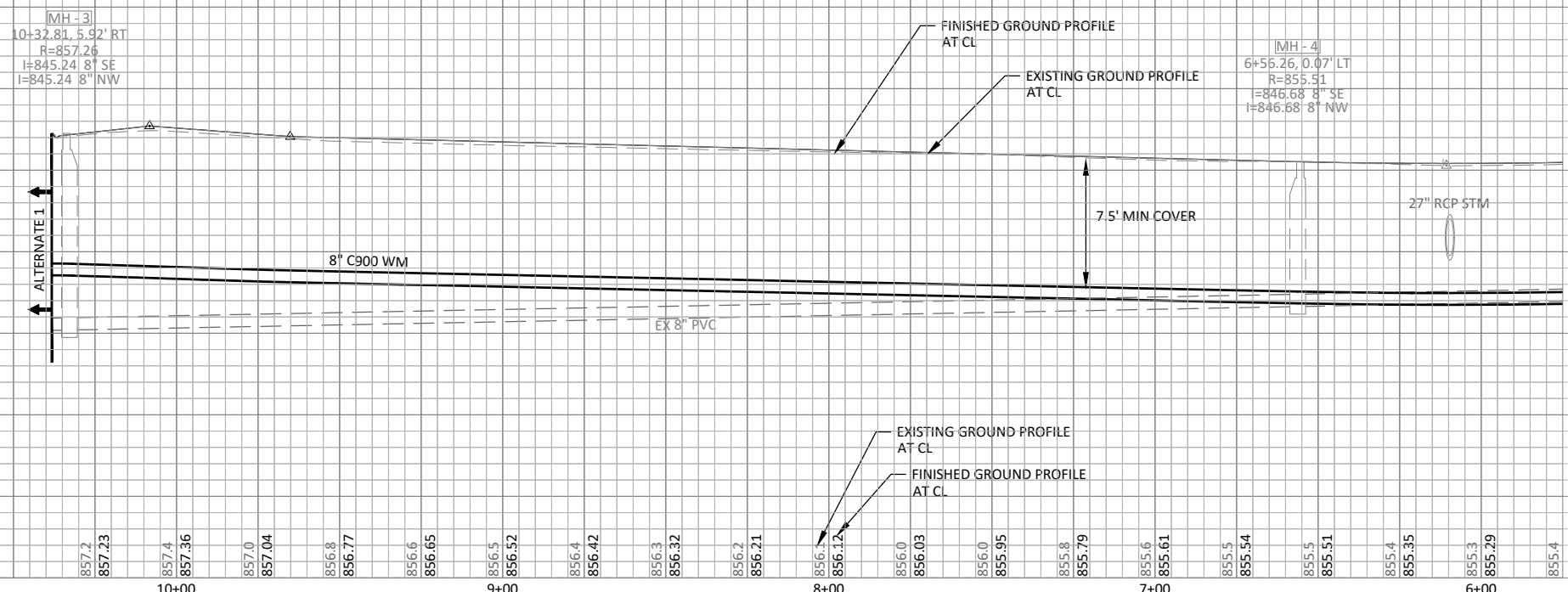
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RIVLYN AVENUE NW

- NOTE:
- 1) SEE TITLE SHEET FOR HORIZONTAL & VERTICAL CONTROL INFORMATION.
 - 2) POLYSTYRENE ISOLATION REQUIRED BETWEEN STORM SEWER & WATERMAIN IF CLEARANCE IS LESS THAN 2 FEET. SEE CONSTRUCTION DETAILS.
 - 3) REMOVE AND REPLACE ALL EXISTING RINGS AND CASTINGS ON EXISTING SANITARY MANHOLES.
 - 4) FIELD VERIFY ALL CURB STOP LOCATIONS PRIOR TO CONSTRUCTION.

LEGEND		PROPOSED HYDRANT & GATE VALVE		EXISTING CONTOUR MINOR		UNDERGROUND COMM		STORM MANHOLE	
	BITUMINOUS PAVEMENT		PROPOSED HYDRANT & GATE VALVE		EXISTING CONTOUR MINOR		UNDERGROUND COMM		STORM MANHOLE
	AGGREGATE SURFACING		EXISTING STORM SEWER PIPE		EXISTING CONTOUR MAJOR		OVERHEAD UTILITY		SANITARY MANHOLE
	CONCRETE SURFACING		PROPOSED STORM SEWER PIPE		PROPOSED CONTOUR MINOR		FIBER OPTIC LINE		BOLLARD
	PROPOSED STORM SEWER CB		EXISTING SANITARY SEWER PIPE		PROPOSED CONTOUR MAJOR		TREE-CONIFEROUS		POST
	PROPOSED STORM SEWER MH		EXISTING WATERMAIN		EXISTING EASEMENT LINE		TREE-DECIDUOUS		UTILITY MARKER - GAS
	PROPOSED FLARED END SECTION		PROPOSED WATERMAIN		PROPOSED EASEMENT LINE		EXISTING TRAFFIC SIGN		TRANSFORMER-ELECTRIC
	RANDOM RIP RAP CL III		PAVEMENT MESSAGE MULTI-COMP		EXISTING RIGHT-OF-WAY		FIRE HYDRANT VALVE		PEDESTAL-ELECTRIC
	PROPOSED SANITARY SEWER MH		SIGN INSTALLATION (BY OTHERS)		PROPOSED RIGHT-OF-WAY		CLEANOUT		HANDHOLE
	PROPOSED GATE VALVE		CURB & GUTTER		FENCE		STORM CATCH BASIN		POLE-UTILITY
			EXISTING CURB & GUTTER		UNDERGROUND GAS		FLARED END SECTION		GUY WIRE ANCHOR



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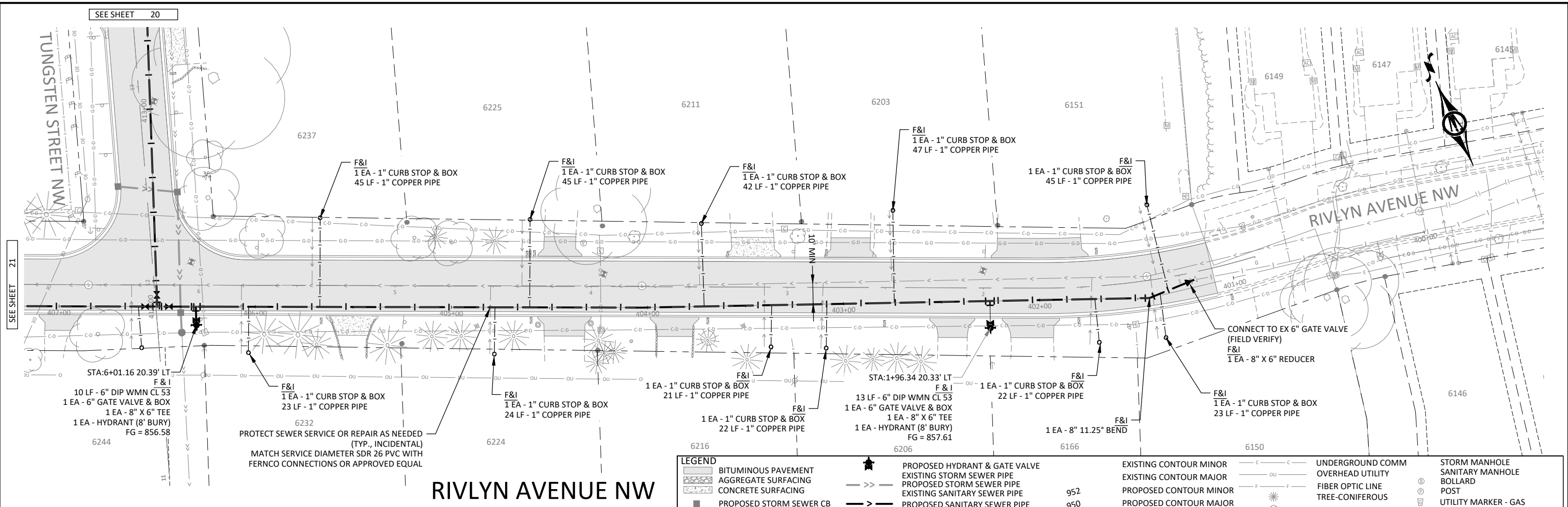
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CITY OF RAMSEY, MINNESOTA
DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
WATERMAIN & SANITARY SEWER - PLAN & PROFILE
RIVLYN AVE NW

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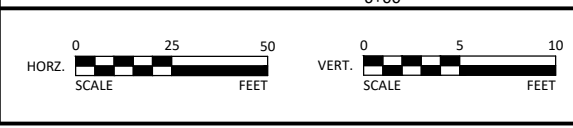
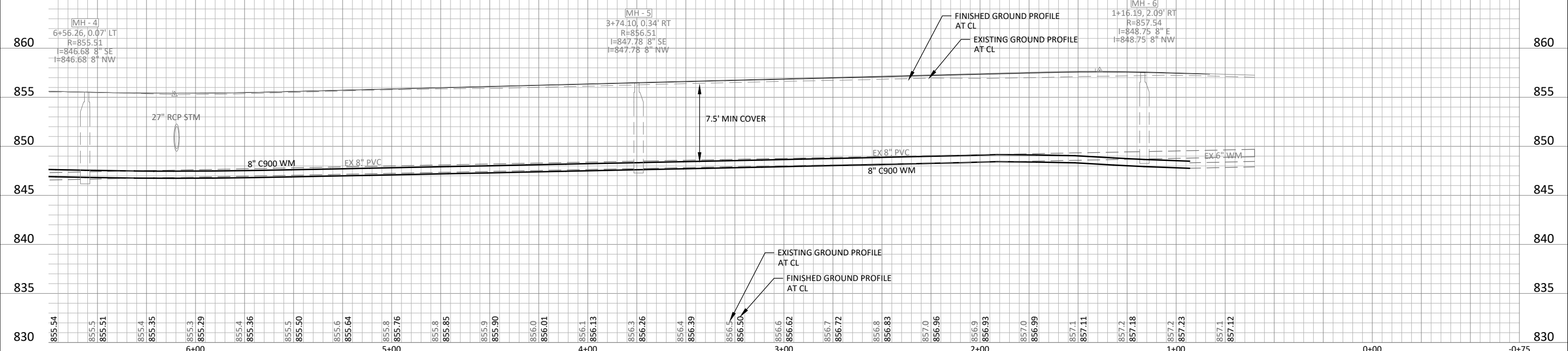


SEE SHEET 21

RIVLYN AVENUE NW

- NOTE:
- SEE TITLE SHEET FOR HORIZONTAL & VERTICAL CONTROL INFORMATION.
 - POLYSTYRENE ISOLATION REQUIRED BETWEEN STORM SEWER & WATERMAIN IF CLEARANCE IS LESS THAN 2 FEET. SEE CONSTRUCTION DETAILS.
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 - FIELD VERIFY ALL CURB STOP LOCATIONS PRIOR TO CONSTRUCTION.

LEGEND	
	BITUMINOUS PAVEMENT
	AGGREGATE SURFACING
	CONCRETE SURFACING
	PROPOSED STORM SEWER CB
	PROPOSED STORM SEWER MH
	PROPOSED FLARED END SECTION
	RANDOM RIP RAP CL III
	PROPOSED SANITARY SEWER MH
	PROPOSED GATE VALVE
	PROPOSED HYDRANT & GATE VALVE
	EXISTING STORM SEWER PIPE
	PROPOSED STORM SEWER PIPE
	EXISTING SANITARY SEWER PIPE
	PROPOSED SANITARY SEWER PIPE
	EXISTING WATERMAIN
	PROPOSED WATERMAIN
	PAVEMENT MESSAGE MULTI-COMP
	SIGN INSTALLATION (BY OTHERS)
	CURB & GUTTER
	EXISTING CURB & GUTTER
	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	FENCE
	UNDERGROUND GAS
	UNDERGROUND COMM
	OVERHEAD UTILITY
	FIBER OPTIC LINE
	TREE-CONIFEROUS
	TREE-DECIDUOUS
	EXISTING TRAFFIC SIGN
	FIRE HYDRANT
	CLEANOUT
	STORM CATCH BASIN
	FLARED END SECTION
	STORM MANHOLE
	SANITARY MANHOLE
	BOLLARD
	POST
	UTILITY MARKER - GAS
	TRANSFORMER-ELECTRIC
	PEDESTAL-ELECTRIC
	HANDHOLE
	POLE-UTILITY
	GUY WIRE ANCHOR

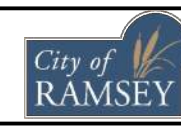


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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 WATERMAIN & SANITARY SEWER - PLAN & PROFILE
 RIVLYN AVE NW

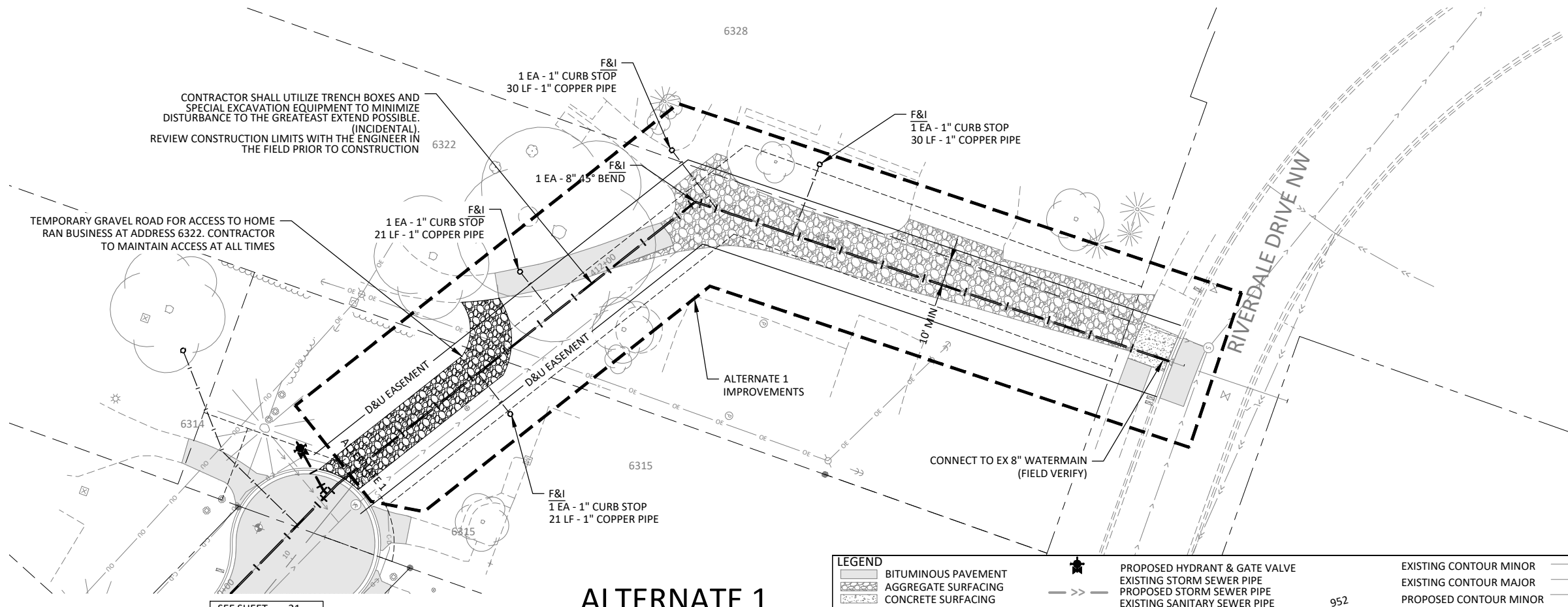
SHEET 22 OF 41

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CONTRACTOR SHALL UTILIZE TRENCH BOXES AND SPECIAL EXCAVATION EQUIPMENT TO MINIMIZE DISTURBANCE TO THE GREATEST EXTENT POSSIBLE. (INCIDENTAL). REVIEW CONSTRUCTION LIMITS WITH THE ENGINEER IN THE FIELD PRIOR TO CONSTRUCTION

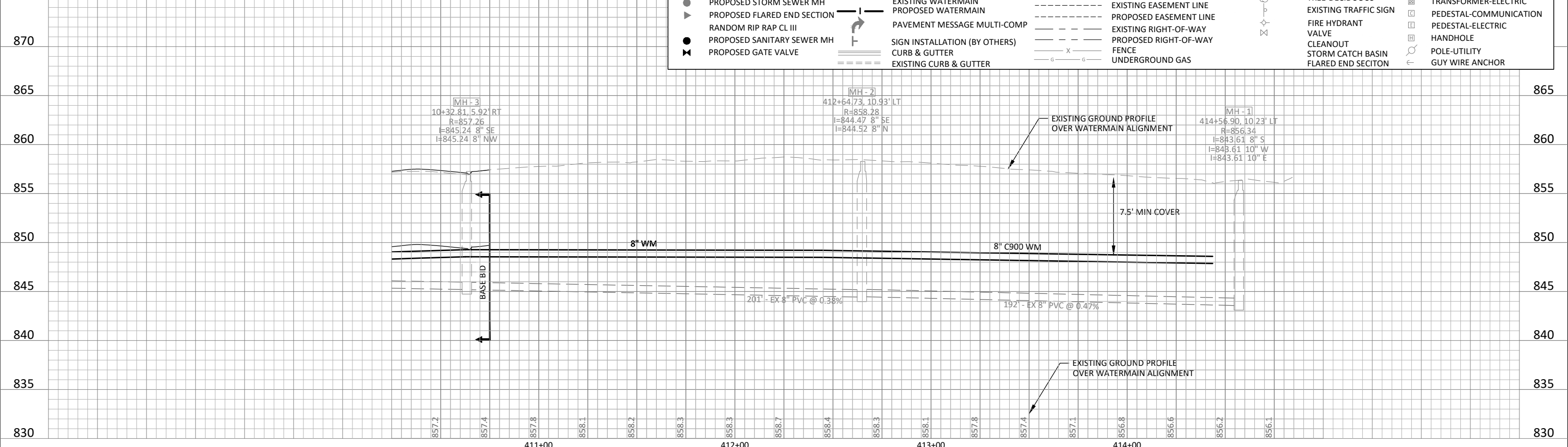
TEMPORARY GRAVEL ROAD FOR ACCESS TO HOME RAN BUSINESS AT ADDRESS 6322. CONTRACTOR TO MAINTAIN ACCESS AT ALL TIMES



- NOTE:
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 - 2) POLYSTYRENE ISOLATION REQUIRED BETWEEN STORM SEWER & WATERMAIN IF CLEARANCE IS LESS THAN 2 FEET. SEE CONSTRUCTION DETAILS.
 - 3) REMOVE AND REPLACE ALL EXISTING RINGS AND CASTINGS ON EXISTING SANITARY MANHOLES.
 - 4) FIELD VERIFY ALL CURB STOP LOCATIONS PRIOR TO CONSTRUCTION.

ALTERNATE 1

LEGEND	
	BITUMINOUS PAVEMENT
	AGGREGATE SURFACING
	CONCRETE SURFACING
	PROPOSED STORM SEWER CB
	PROPOSED STORM SEWER MH
	PROPOSED FLARED END SECTION
	RANDOM RIP RAP CL III
	PROPOSED SANITARY SEWER MH
	PROPOSED GATE VALVE
	PROPOSED HYDRANT & GATE VALVE
	EXISTING STORM SEWER PIPE
	EXISTING SANITARY SEWER PIPE
	EXISTING WATERMAIN
	PROPOSED SANITARY SEWER PIPE
	PROPOSED STORM SEWER PIPE
	PROPOSED WATERMAIN
	PAVEMENT MESSAGE MULTI-COMP
	SIGN INSTALLATION (BY OTHERS)
	CURB & GUTTER
	EXISTING CURB & GUTTER
	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	FENCE
	UNDERGROUND GAS
	UNDERGROUND COMM
	OVERHEAD UTILITY
	FIBER OPTIC LINE
	TREE-CONIFEROUS
	TREE-DECIDUOUS
	EXISTING TRAFFIC SIGN
	FIRE HYDRANT VALVE
	CLEANOUT
	STORM CATCH BASIN
	FLARED END SECTION
	STORM MANHOLE
	SANITARY MANHOLE
	BOLLARD
	POST
	UTILITY MARKER - GAS
	TRANSFORMER-ELECTRIC
	PEDESTAL-COMMUNICATION
	PEDESTAL-ELECTRIC
	HANDHOLE
	POLE-UTILITY
	GUY WIRE ANCHOR



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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 WATERMAIN & SANITARY SEWER - PLAN & PROFILE
 ALTERNATE 1

SHEET 23 OF 41

LEGEND

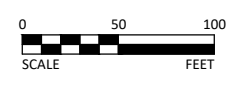
- |—|— EXISTING WATERMAIN
- ⊕ ⊗ EXISTING HYDRANTS & VALVES
- |—|— PROPOSED WATERMAIN
- ⊕ ⊗ PROPOSED HYDRANTS & VALVES
- |—|— 3" TEMPORARY WATERMAIN
- |—|— 1" FLEXIBLE TEMP WATER SERVICE

NOTES:

1. EXISTING WATERMAIN, VALVES, AND HYDRANTS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS, QUANTITY, AND SIZE PRIOR TO SUBMITTAL OF A TEMPORARY WATER PLAN.
2. TEMPORARY WATER WILL NOT BE REQUIRED FOR SHORT DURATION WATER OUTAGES BETWEEN 9AM AND 5 PM.
3. A MINIMUM OF 72 HOURS NOTICE IS REQUIRED PRIOR TO SHORT DURATION WATER OUTAGES. OWNER IS RESPONSIBLE FOR NOTIFYING IMPACTED PROPERTIES.
4. PROTECTION AND MAINTENANCE OF ALL TEMPORARY WATER LINES IS INCIDENTAL.



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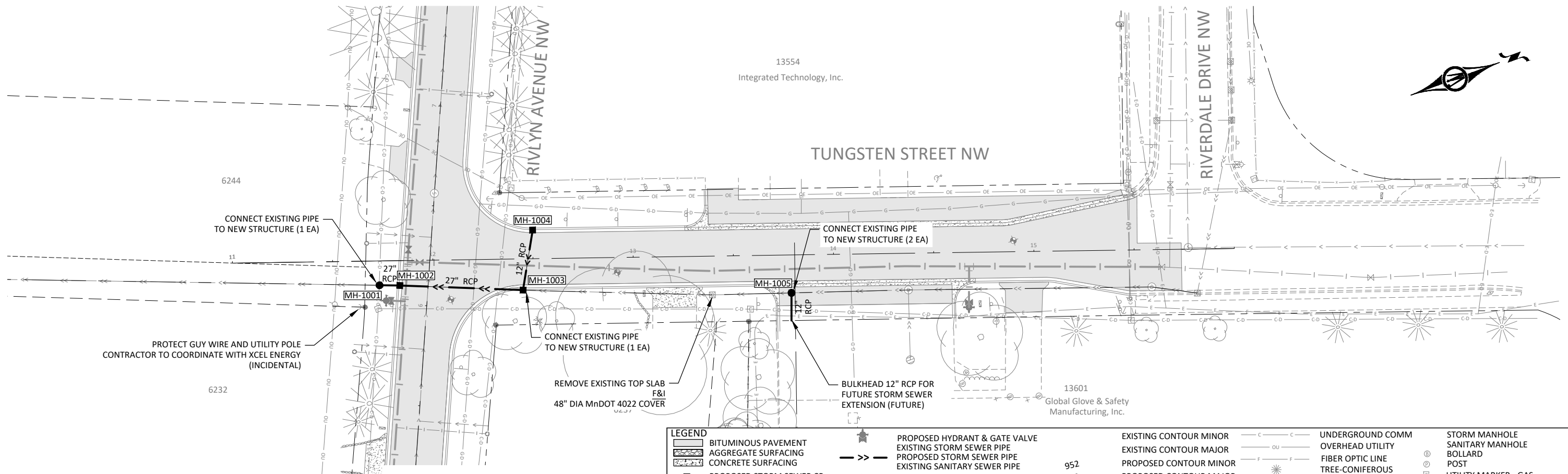


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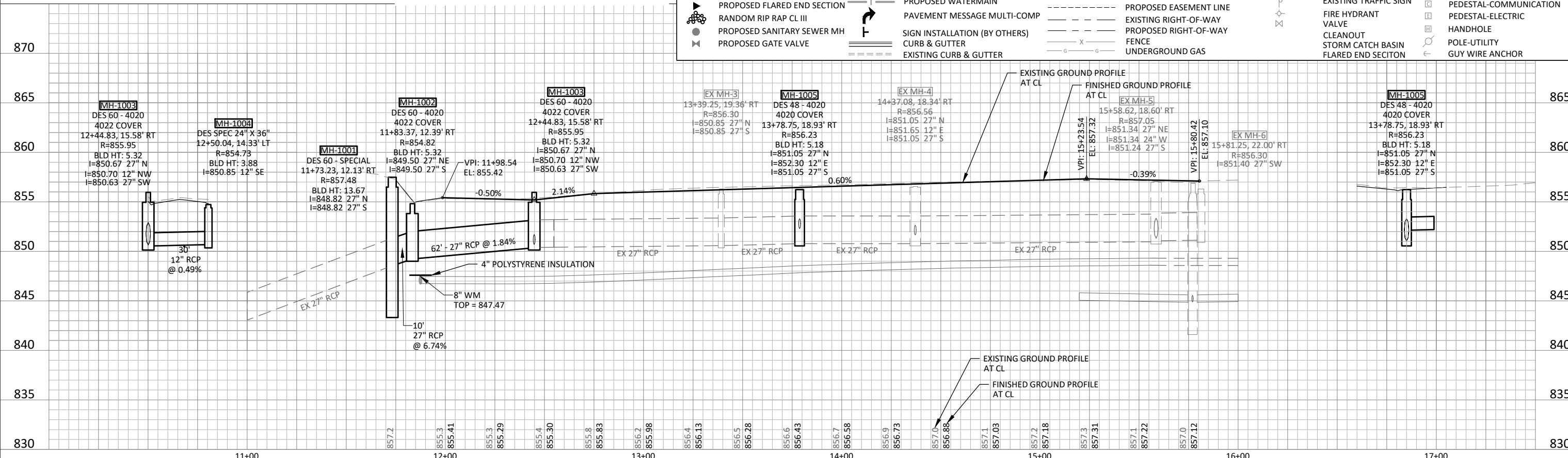
CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 TEMPORARY WATER PLAN

SHEET 24 OF 41

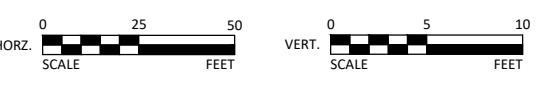
13554
Integrated Technology, Inc.



LEGEND		EXISTING CONTOUR MINOR		UNDERGROUND COMM		STORM MANHOLE	
	BITUMINOUS PAVEMENT		EXISTING CONTOUR MAJOR		OVERHEAD UTILITY		SANITARY MANHOLE
	AGGREGATE SURFACING		PROPOSED CONTOUR MINOR		FIBER OPTIC LINE		SANITARY MANHOLE BOLLARD
	CONCRETE SURFACING		PROPOSED CONTOUR MAJOR		TREE-CONIFEROUS		POST
	PROPOSED STORM SEWER CB		EXISTING EASEMENT LINE		TREE-DECIDUOUS		UTILITY MARKER - GAS
	PROPOSED STORM SEWER MH		PROPOSED EASEMENT LINE		EXISTING TRAFFIC SIGN		TRANSFORMER-ELECTRIC
	PROPOSED FLARED END SECTION		EXISTING RIGHT-OF-WAY		FIRE HYDRANT VALVE		PEDESTAL-ELECTRIC
	RANDOM RIP RAP CL III		PROPOSED RIGHT-OF-WAY		CLEANOUT		HANDHOLE
	PROPOSED SANITARY SEWER MH		FENCE		STORM CATCH BASIN		POLE-UTILITY
	PROPOSED GATE VALVE		UNDERGROUND GAS		FLARED END SECTION		GUY WIRE ANCHOR
	PROPOSED HYDRANT & GATE VALVE						
	EXISTING STORM SEWER PIPE						
	PROPOSED STORM SEWER PIPE						
	EXISTING SANITARY SEWER PIPE						
	PROPOSED SANITARY SEWER PIPE						
	EXISTING WATERMAIN						
	PROPOSED WATERMAIN						
	PAVEMENT MESSAGE MULTI-COMP						
	SIGN INSTALLATION (BY OTHERS)						
	CURB & GUTTER						
	EXISTING CURB & GUTTER						



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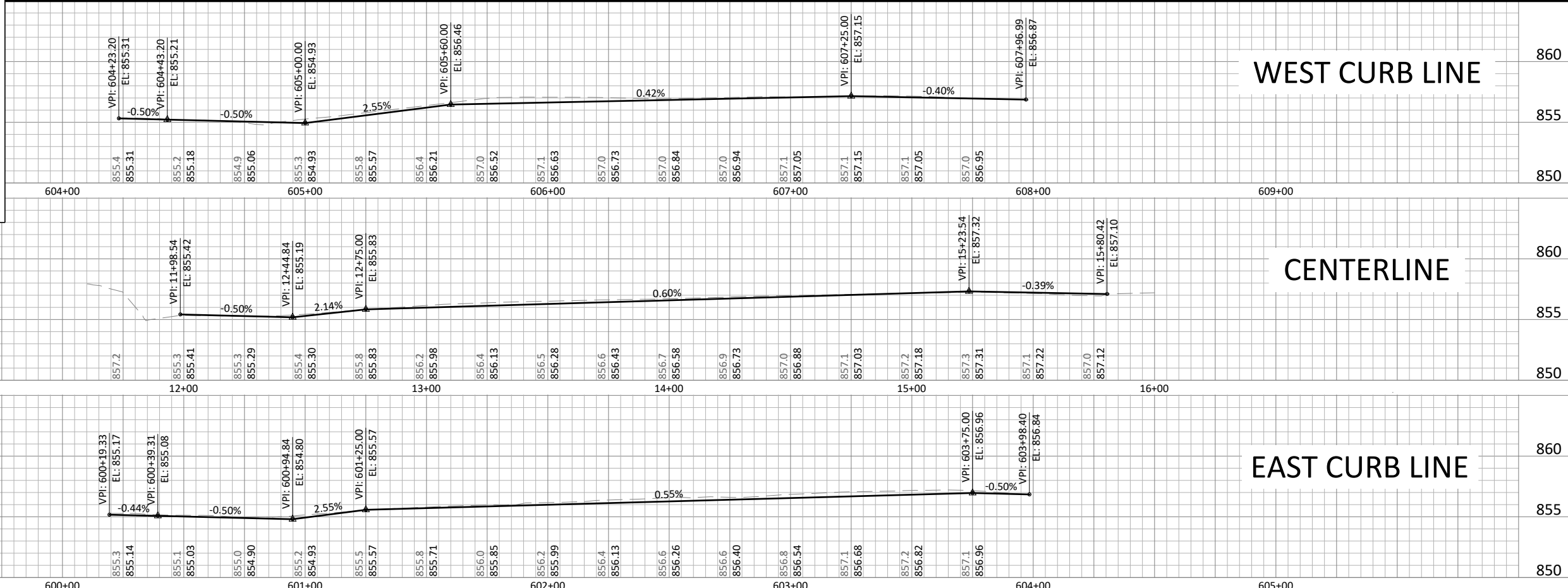
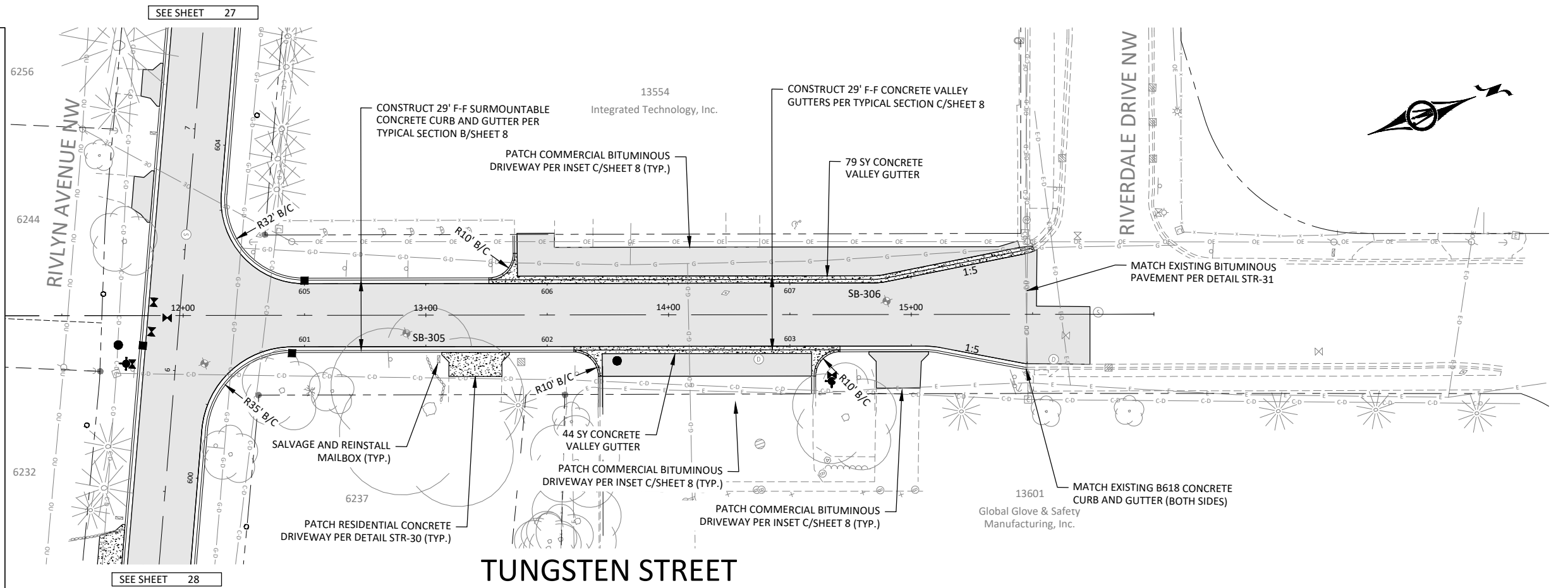
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CITY OF RAMSEY, MINNESOTA
DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
STORM SEWER - PLAN & PROFILE
TUNGSTEN ST NW

SHEET
25
OF
41

LEGEND

- BITUMINOUS PAVEMENT
- AGGREGATE SURFACING
- CONCRETE SURFACING
- PROPOSED STORM SEWER CB
- PROPOSED STORM SEWER MH
- PROPOSED FLARED END SECTION
- RANDOM RIP RAP CL III
- PROPOSED SANITARY SEWER MH
- PROPOSED GATE VALVE
- PROPOSED HYDRANT & GATE VALVE
- EXISTING STORM SEWER PIPE
- PROPOSED STORM SEWER PIPE
- EXISTING SANITARY SEWER PIPE
- PROPOSED SANITARY SEWER PIPE
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- PAVEMENT MESSAGE MULTI-COMP
- SIGN INSTALLATION (BY OTHERS)
- CURB & GUTTER
- EXISTING CURB & GUTTER
- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- FENCE
- UNDERGROUND GAS
- UNDERGROUND COMM
- OVERHEAD UTILITY
- FIBER OPTIC LINE
- TREE-CONIFEROUS
- TREE-DECIDUOUS
- EXISTING TRAFFIC SIGN
- FIRE HYDRANT
- VALVE
- CLEANOUT
- STORM CATCH BASIN
- FLARED END SECTION
- STORM MANHOLE
- SANITARY MANHOLE
- BOLLARD
- POST
- UTILITY MARKER - GAS
- TRANSFORMER-ELECTRIC
- PEDESTAL-COMMUNICATION
- PEDESTAL-ELECTRIC
- HANDHOLE
- POLE-UTILITY
- GUY WIRE ANCHOR



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ZACHARY F. TINGL, P.E.

56344 03/27/2025



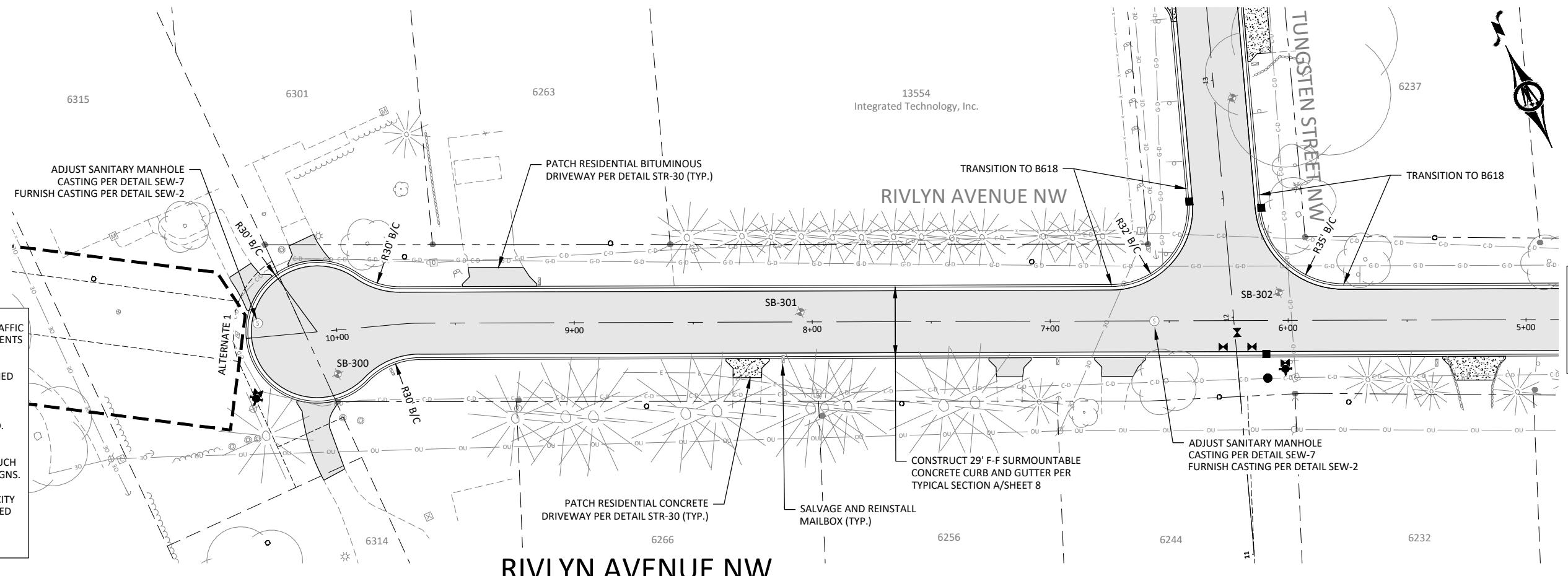
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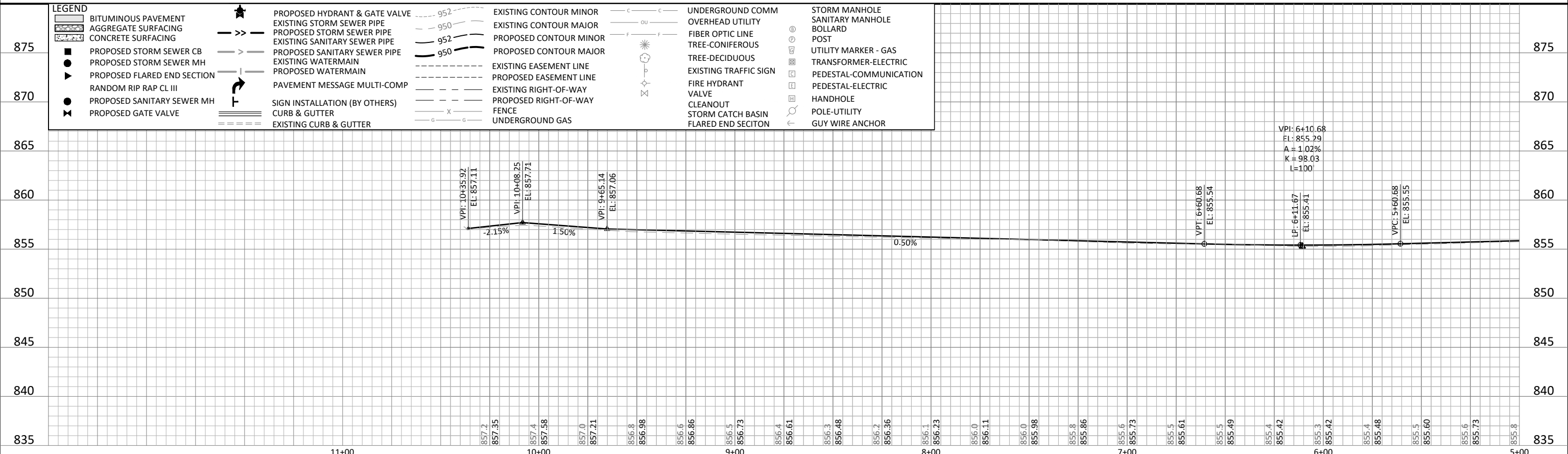
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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 STREET IMPROVEMENTS - PLAN & PROFILE
 TUNGSTEN ST NW

SHEET 26 OF 41

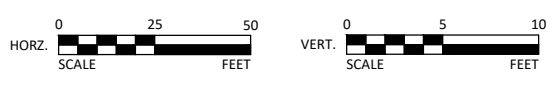


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LEGEND									
[Symbol]	BITUMINOUS PAVEMENT	[Symbol]	PROPOSED HYDRANT & GATE VALVE	[Symbol]	EXISTING CONTOUR MINOR	[Symbol]	UNDERGROUND COMM	[Symbol]	STORM MANHOLE
[Symbol]	AGGREGATE SURFACING	[Symbol]	EXISTING STORM SEWER PIPE	[Symbol]	EXISTING CONTOUR MAJOR	[Symbol]	OVERHEAD UTILITY	[Symbol]	SANITARY MANHOLE
[Symbol]	CONCRETE SURFACING	[Symbol]	PROPOSED STORM SEWER PIPE	[Symbol]	PROPOSED CONTOUR MINOR	[Symbol]	FIBER OPTIC LINE	[Symbol]	BOLLARD
[Symbol]	PROPOSED STORM SEWER CB	[Symbol]	EXISTING SANITARY SEWER PIPE	[Symbol]	PROPOSED CONTOUR MAJOR	[Symbol]	TREE-CONIFEROUS	[Symbol]	POST
[Symbol]	PROPOSED STORM SEWER MH	[Symbol]	PROPOSED SANITARY SEWER PIPE	[Symbol]	EXISTING EASEMENT LINE	[Symbol]	TREE-DECIDUOUS	[Symbol]	UTILITY MARKER - GAS
[Symbol]	PROPOSED FLARED END SECTION	[Symbol]	EXISTING WATERMAIN	[Symbol]	PROPOSED EASEMENT LINE	[Symbol]	EXISTING TRAFFIC SIGN	[Symbol]	TRANSFORMER-ELECTRIC
[Symbol]	RANDOM RIP RAP CL III	[Symbol]	PROPOSED WATERMAIN	[Symbol]	EXISTING RIGHT-OF-WAY	[Symbol]	FIRE HYDRANT	[Symbol]	PEDESTAL-COMMUNICATION
[Symbol]	PROPOSED SANITARY SEWER MH	[Symbol]	PAVEMENT MESSAGE MULTI-COMP	[Symbol]	PROPOSED RIGHT-OF-WAY	[Symbol]	VALVE	[Symbol]	PEDESTAL-ELECTRIC
[Symbol]	PROPOSED GATE VALVE	[Symbol]	SIGN INSTALLATION (BY OTHERS)	[Symbol]	FENCE	[Symbol]	CLEANOUT	[Symbol]	HANDHOLE
		[Symbol]	CURB & GUTTER	[Symbol]	UNDERGROUND GAS	[Symbol]	STORM CATCH BASIN	[Symbol]	POLE-UTILITY
		[Symbol]	EXISTING CURB & GUTTER	[Symbol]		[Symbol]	FLARED END SECTION	[Symbol]	GUY WIRE ANCHOR

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 ZACHARY F. INGL, P.E.
 LIC. NO. 56344 DATE 03/27/2025

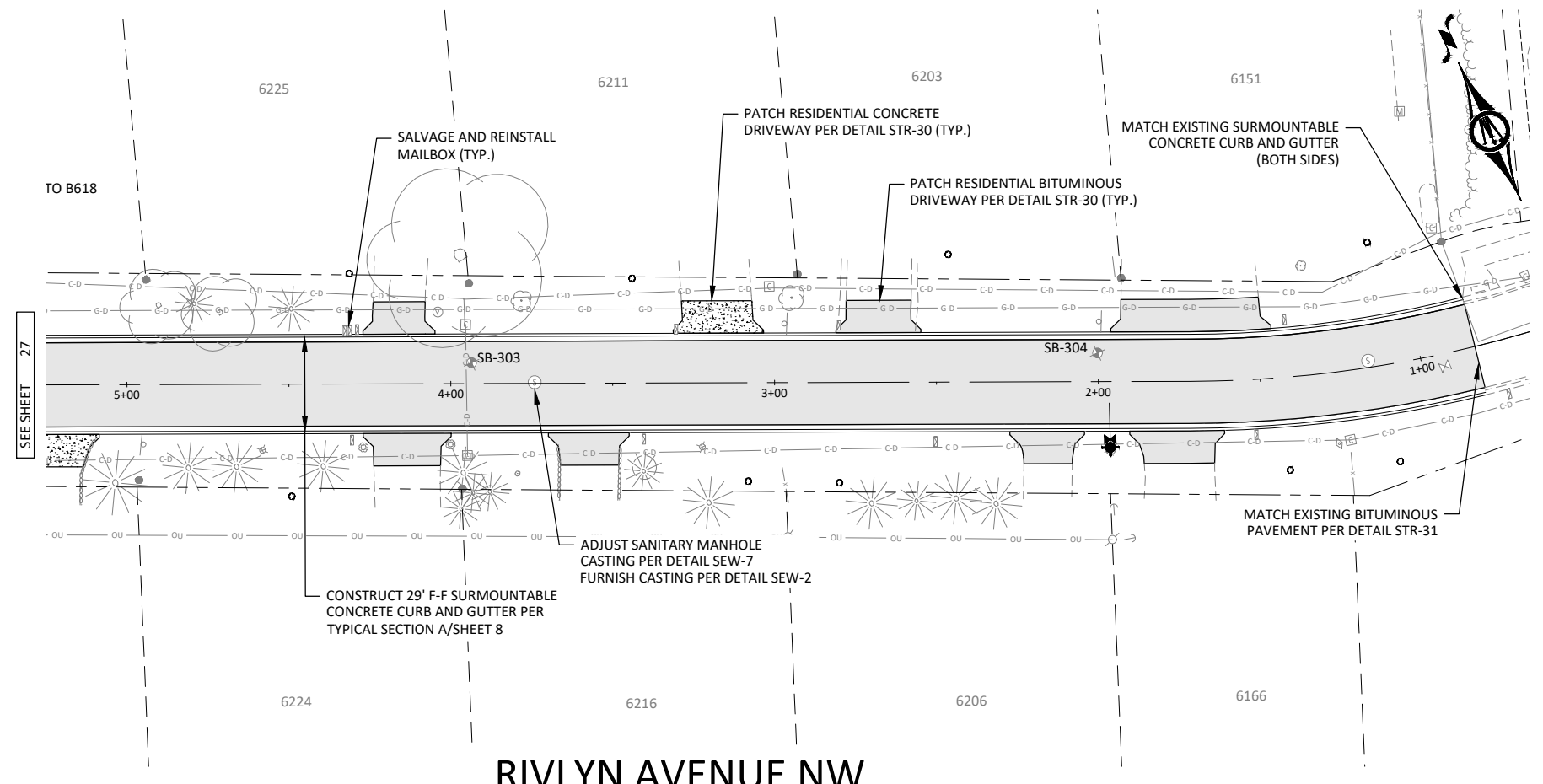


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CLIENT PROJ. NO.	25-04		

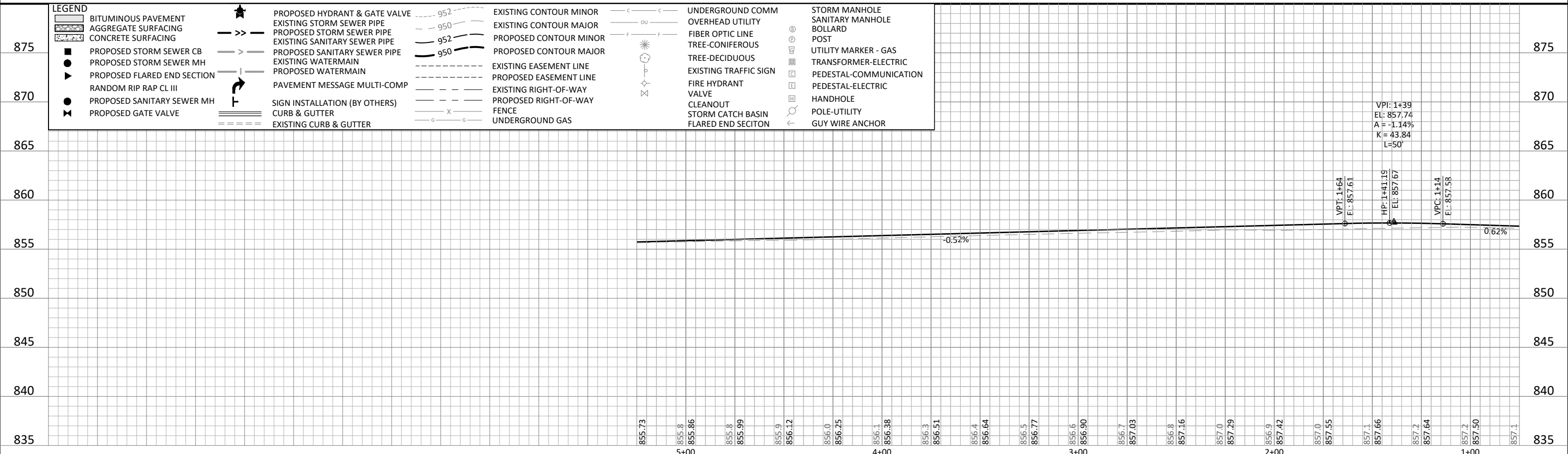
CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 STREET IMPROVEMENTS - PLAN & PROFILE
 RIVLYN AVE NW
 SHEET 27 OF 41



- NOTE:**
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RIVLYN AVENUE NW

LEGEND	
	BITUMINOUS PAVEMENT
	AGGREGATE SURFACING
	CONCRETE SURFACING
	PROPOSED STORM SEWER CB
	PROPOSED STORM SEWER MH
	PROPOSED FLARED END SECTION
	RANDOM RIP RAP CL III
	PROPOSED SANITARY SEWER MH
	PROPOSED GATE VALVE
	PROPOSED HYDRANT & GATE VALVE
	EXISTING STORM SEWER PIPE
	PROPOSED STORM SEWER PIPE
	EXISTING SANITARY SEWER PIPE
	PROPOSED SANITARY SEWER PIPE
	EXISTING WATERMAIN
	PROPOSED WATERMAIN
	PAVEMENT MESSAGE MULTI-COMP
	SIGN INSTALLATION (BY OTHERS)
	CURB & GUTTER
	EXISTING CURB & GUTTER
	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	FENCE
	UNDERGROUND GAS
	UNDERGROUND COMM
	OVERHEAD UTILITY
	FIBER OPTIC LINE
	TREE-CONIFEROUS
	TREE-DECIDUOUS
	EXISTING TRAFFIC SIGN
	FIRE HYDRANT
	VALVE
	CLEANOUT
	STORM CATCH BASIN
	FLARED END SECTION
	STORM MANHOLE
	SANITARY MANHOLE
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	POST
	UTILITY MARKER - GAS
	TRANSFORMER-ELECTRIC
	PEDESTAL-COMMUNICATION
	PEDESTAL-ELECTRIC
	HANDHOLE
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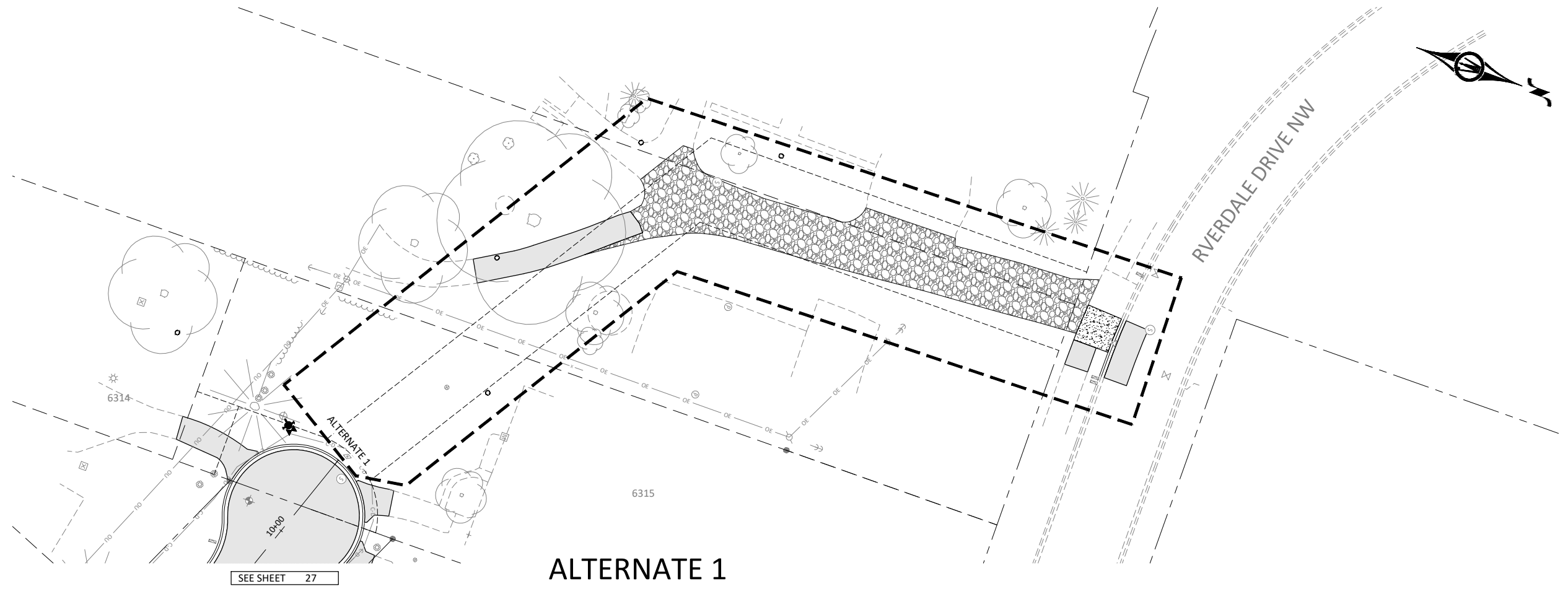
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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 STREET IMPROVEMENTS - PLAN & PROFILE
 RIVLYN AVE NW

SHEET 28 OF 41

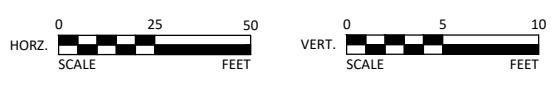


ALTERNATE 1

- NOTE:**
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LEGEND									
[Pattern]	BITUMINOUS PAVEMENT	[Symbol]	PROPOSED HYDRANT & GATE VALVE	[Line]	EXISTING CONTOUR MINOR	[Symbol]	UNDERGROUND COMM	[Symbol]	STORM MANHOLE
[Pattern]	AGGREGATE SURFACING	[Line]	EXISTING STORM SEWER PIPE	[Line]	EXISTING CONTOUR MAJOR	[Symbol]	OVERHEAD UTILITY	[Symbol]	SANITARY MANHOLE
[Pattern]	CONCRETE SURFACING	[Line]	PROPOSED STORM SEWER PIPE	[Line]	PROPOSED CONTOUR MINOR	[Symbol]	FIBER OPTIC LINE	[Symbol]	BOLLARD
[Symbol]	PROPOSED STORM SEWER CB	[Line]	EXISTING SANITARY SEWER PIPE	[Line]	PROPOSED CONTOUR MAJOR	[Symbol]	TREE-CONIFEROUS	[Symbol]	POST
[Symbol]	PROPOSED STORM SEWER MH	[Line]	EXISTING WATERMAIN	[Line]	EXISTING EASEMENT LINE	[Symbol]	TREE-DECIDUOUS	[Symbol]	UTILITY MARKER - GAS
[Symbol]	PROPOSED FLARED END SECTION	[Line]	PROPOSED WATERMAIN	[Line]	PROPOSED EASEMENT LINE	[Symbol]	EXISTING TRAFFIC SIGN	[Symbol]	TRANSFORMER-ELECTRIC
[Symbol]	RANDOM RIP RAP CL III	[Line]	PAVEMENT MESSAGE MULTI-COMP	[Line]	EXISTING RIGHT-OF-WAY	[Symbol]	FIRE HYDRANT VALVE	[Symbol]	PEDESTAL-COMMUNICATION
[Symbol]	PROPOSED SANITARY SEWER MH	[Line]	SIGN INSTALLATION (BY OTHERS)	[Line]	PROPOSED RIGHT-OF-WAY	[Symbol]	CLEANOUT	[Symbol]	PEDESTAL-ELECTRIC
[Symbol]	PROPOSED GATE VALVE	[Line]	CURB & GUTTER	[Line]	FENCE	[Symbol]	STORM CATCH BASIN	[Symbol]	HANDHOLE
		[Line]	EXISTING CURB & GUTTER	[Line]	UNDERGROUND GAS	[Symbol]	FLARED END SECTION	[Symbol]	POLE-UTILITY
				[Line]		[Symbol]		[Symbol]	GUY WIRE ANCHOR

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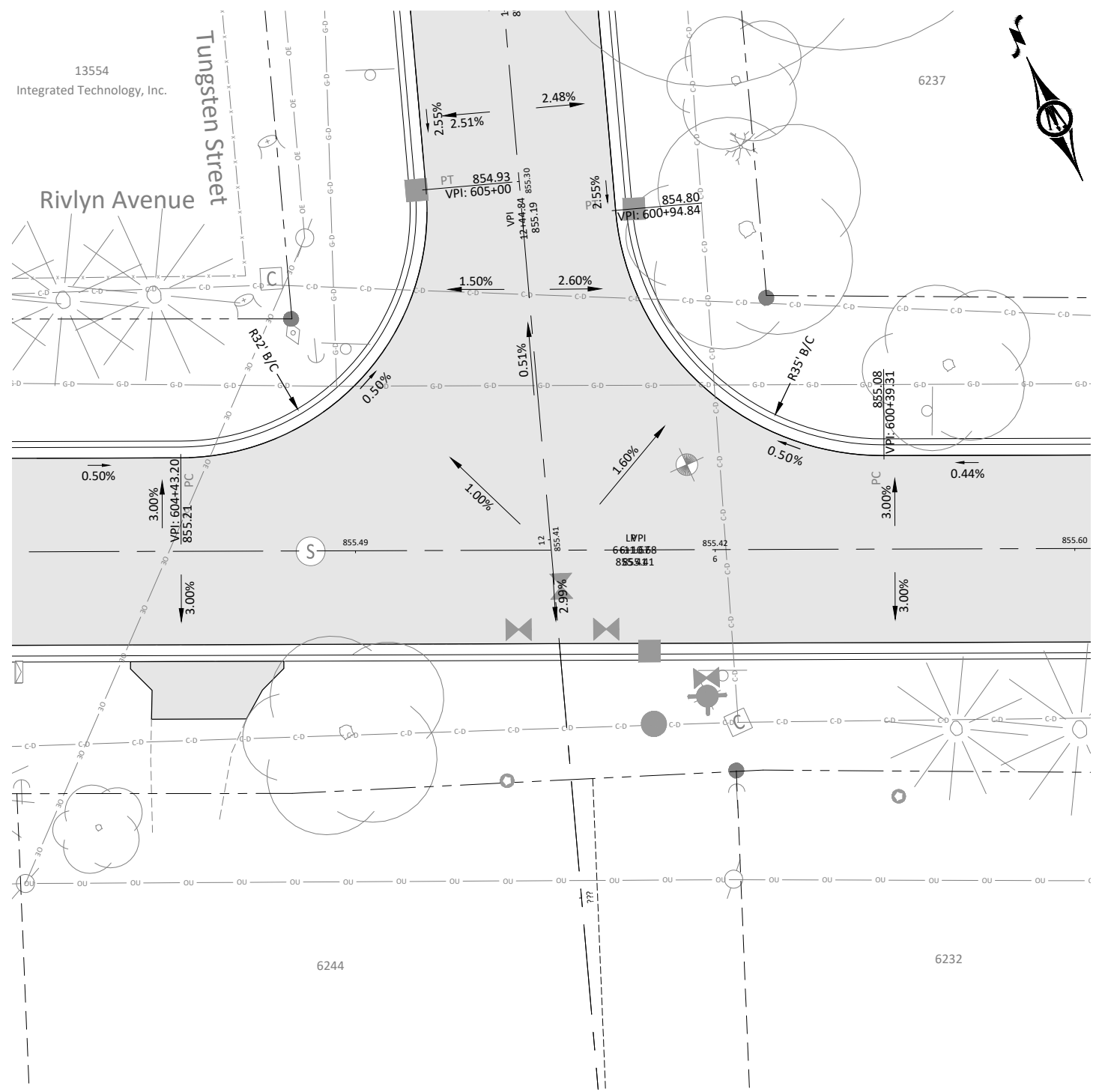
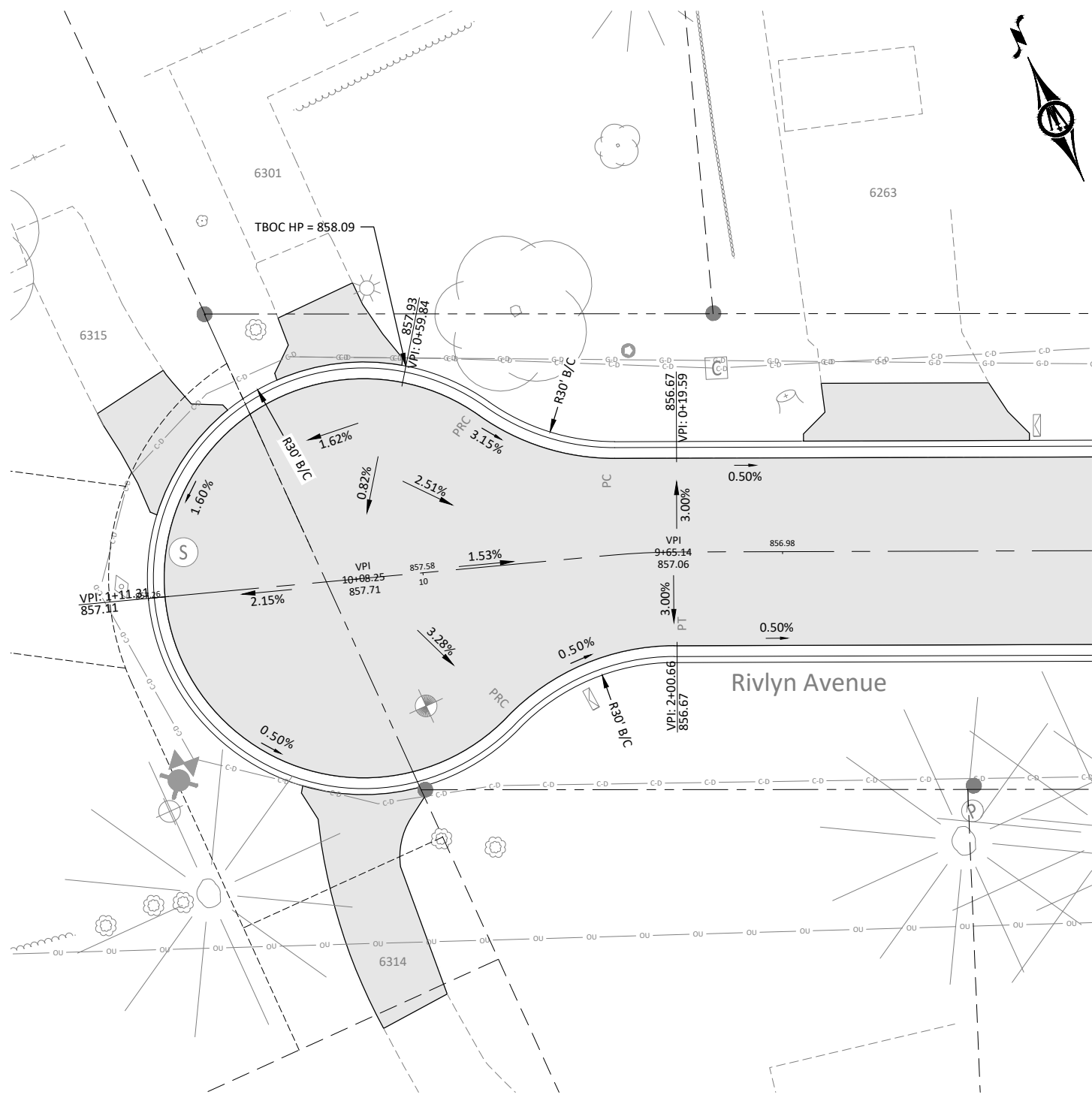
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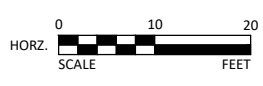
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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 STREET IMPROVEMENTS - PLAN & PROFILE
 RIVLYN AVE NW

SHEET 29 OF 41



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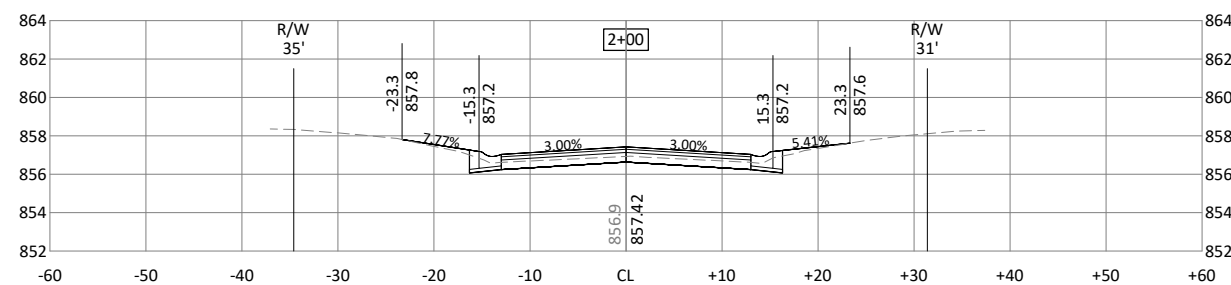
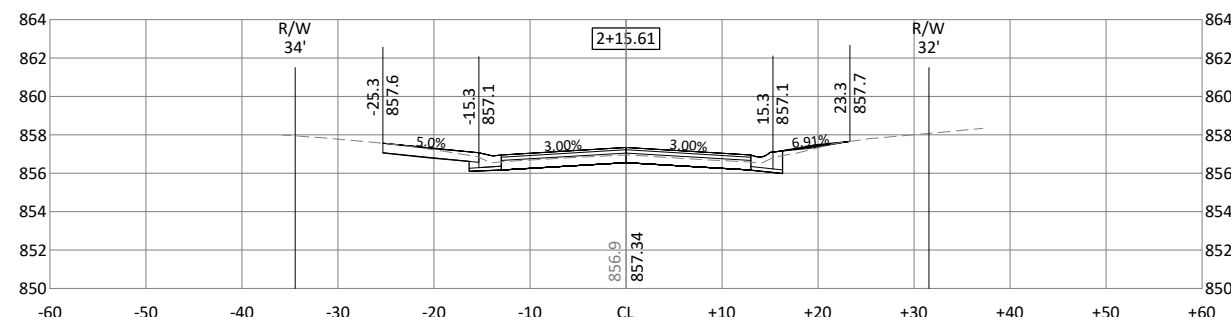
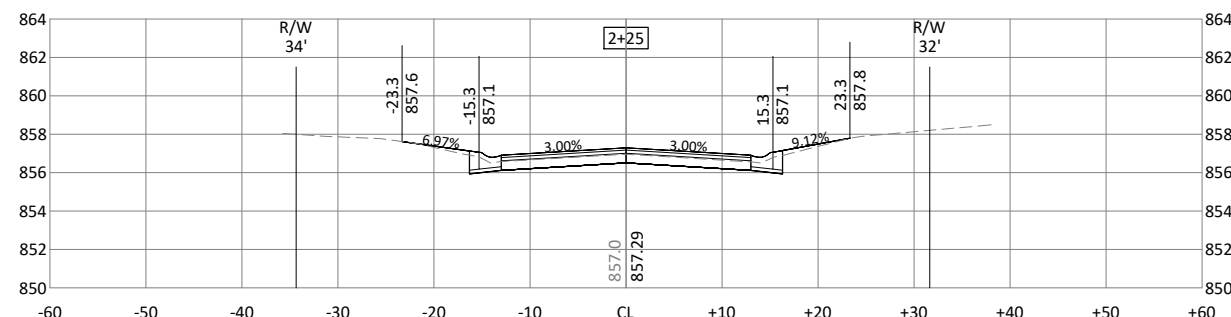
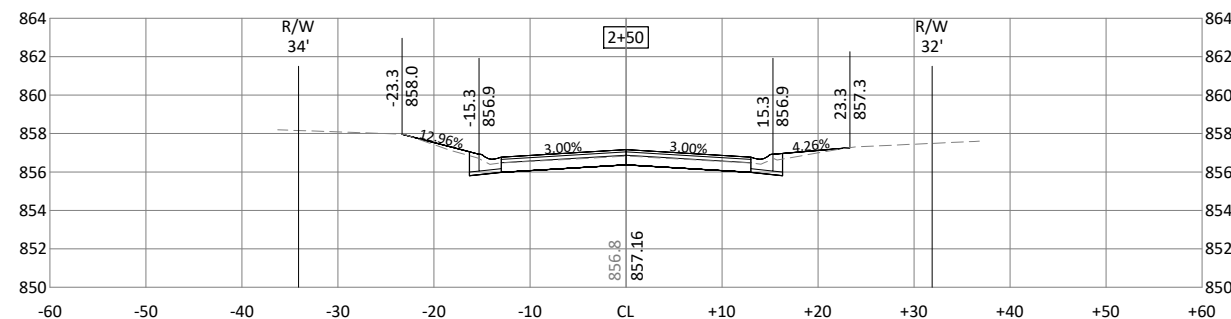
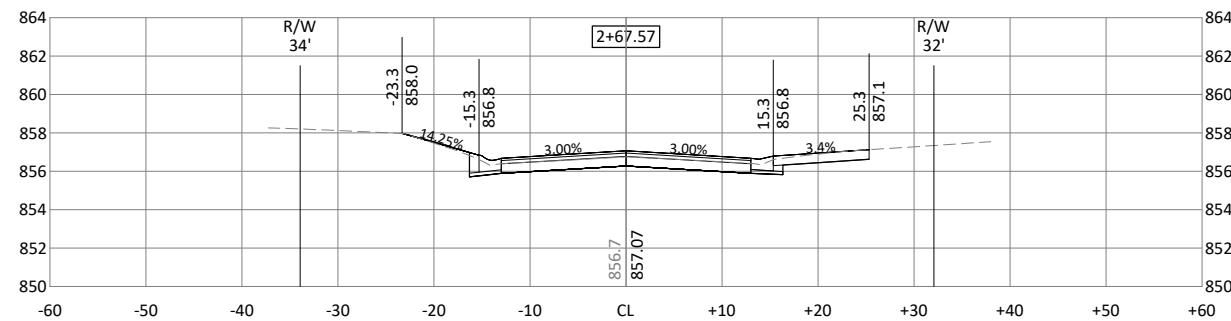
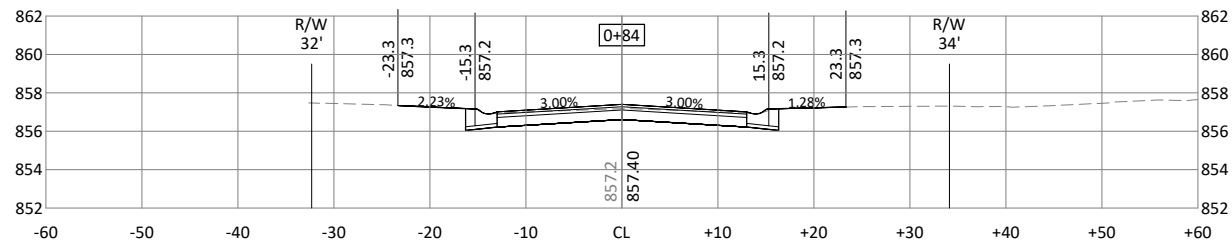
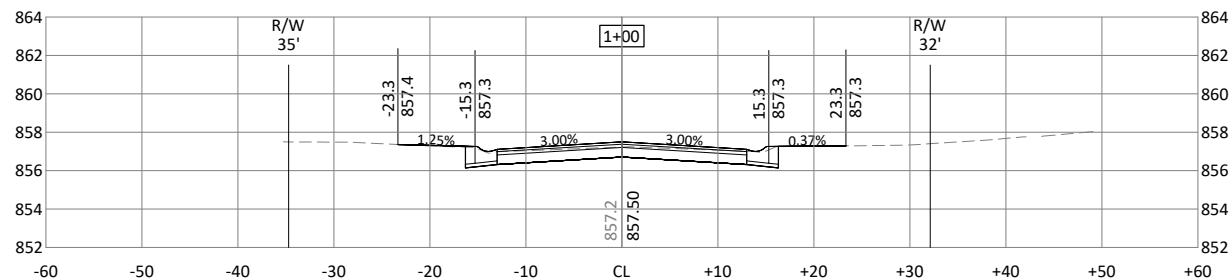
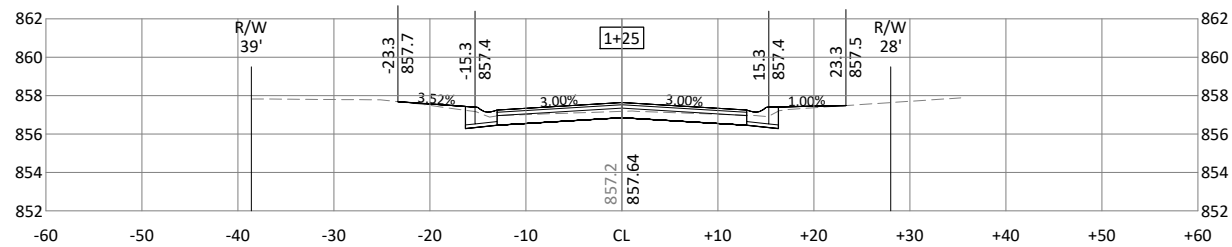
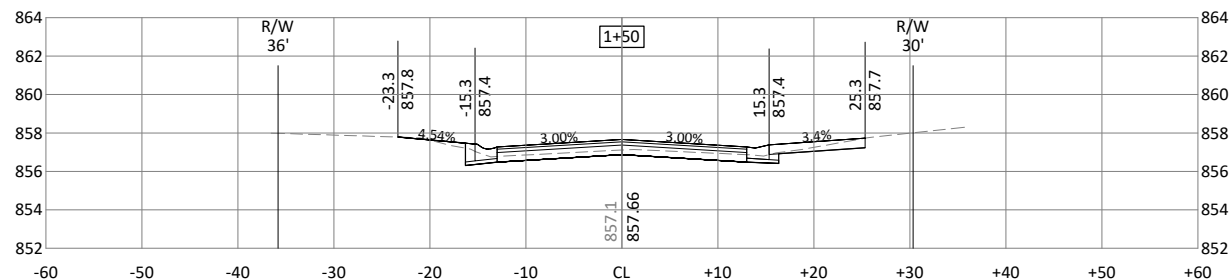
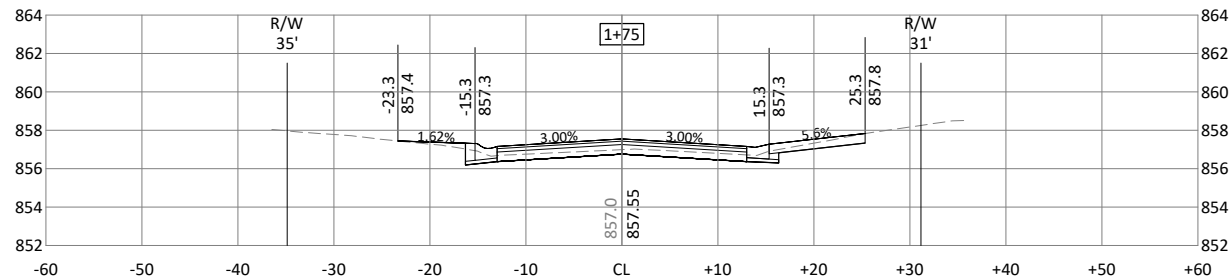
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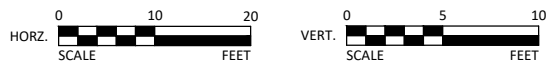
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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 INTERSECTION DETAILS

SHEET 30 OF 41



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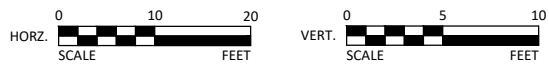
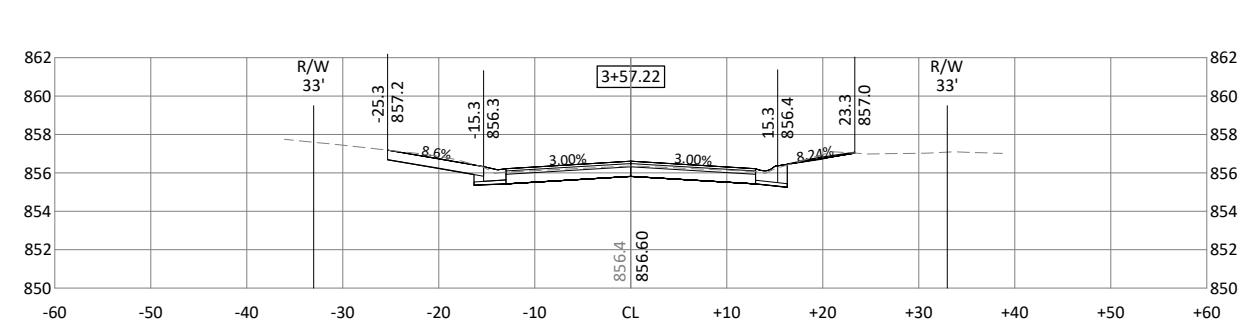
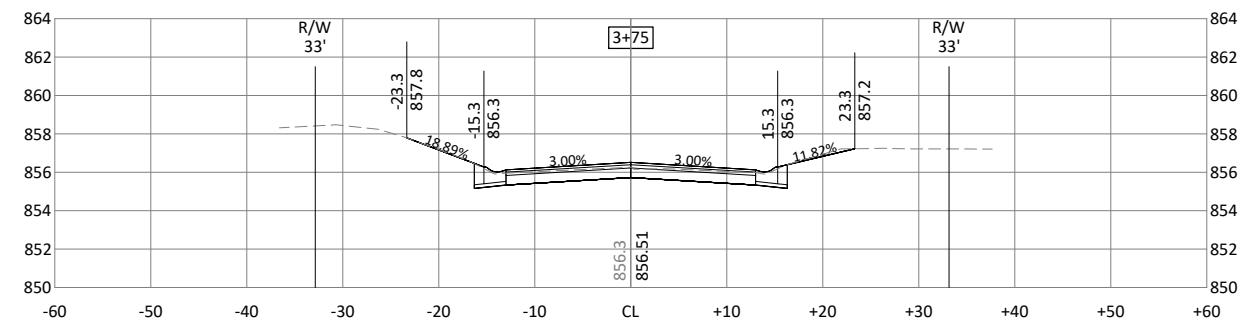
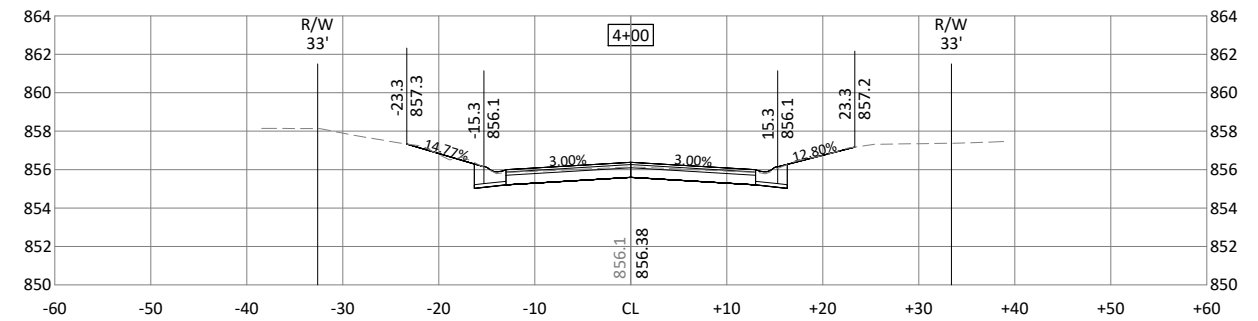
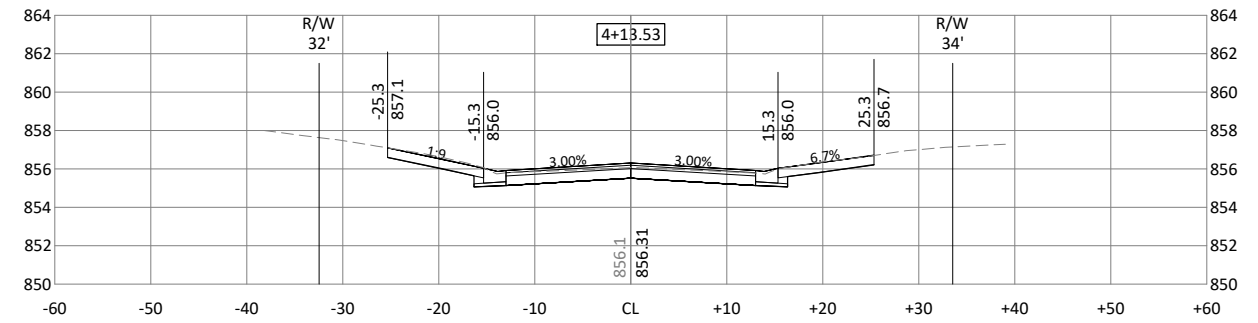
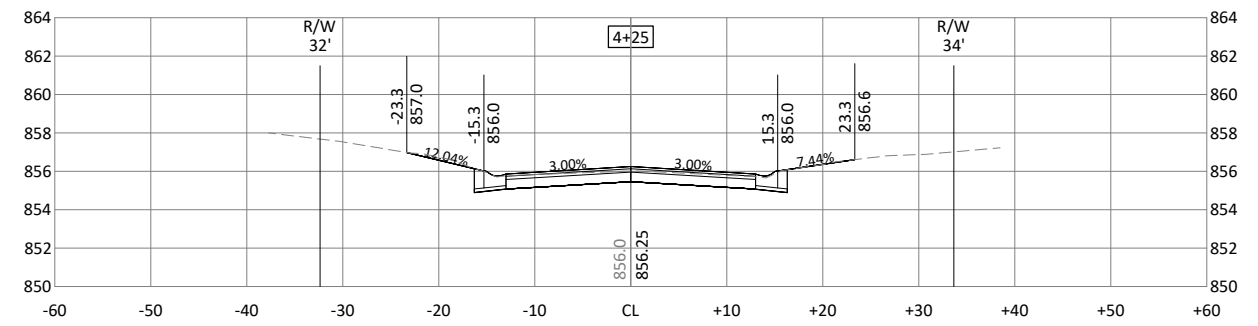
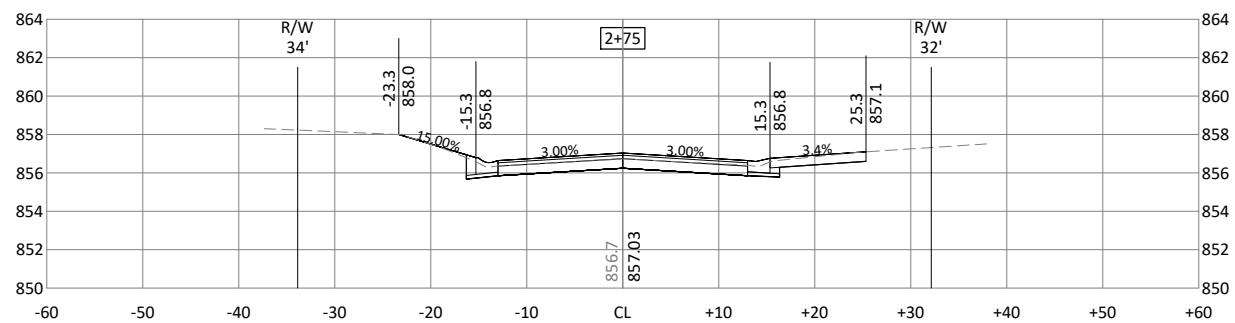
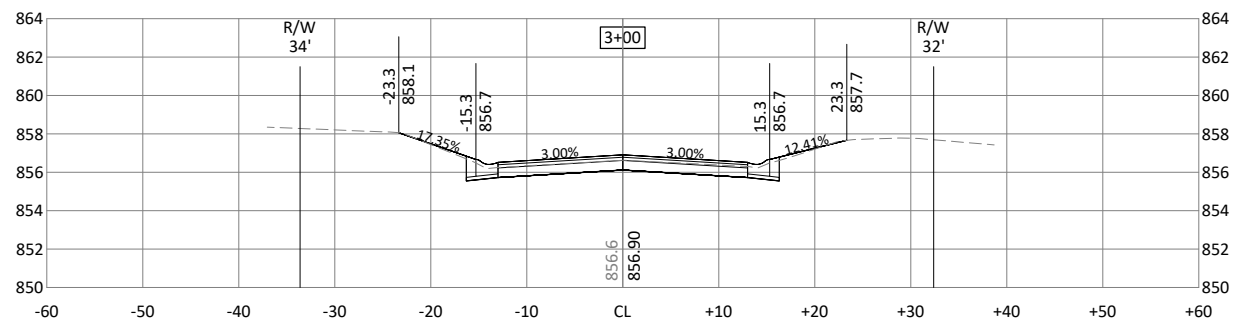
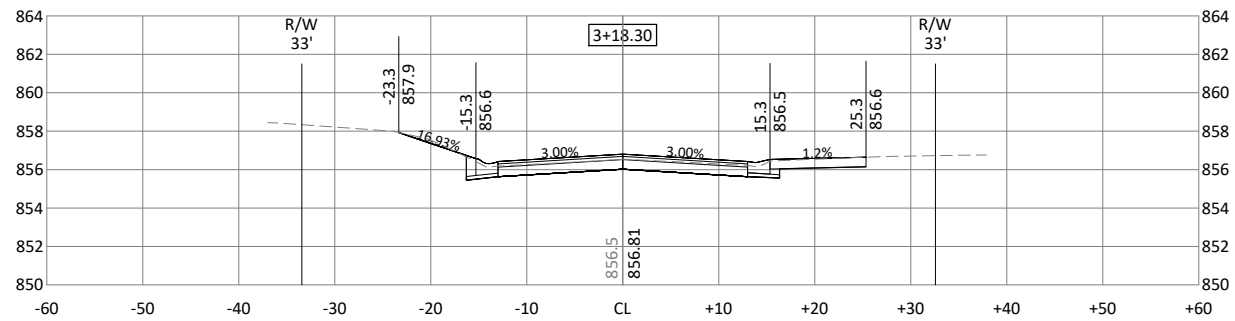
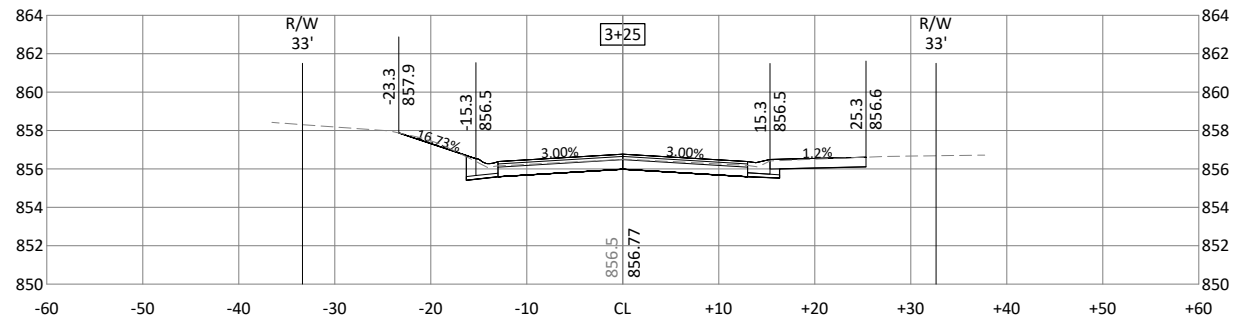
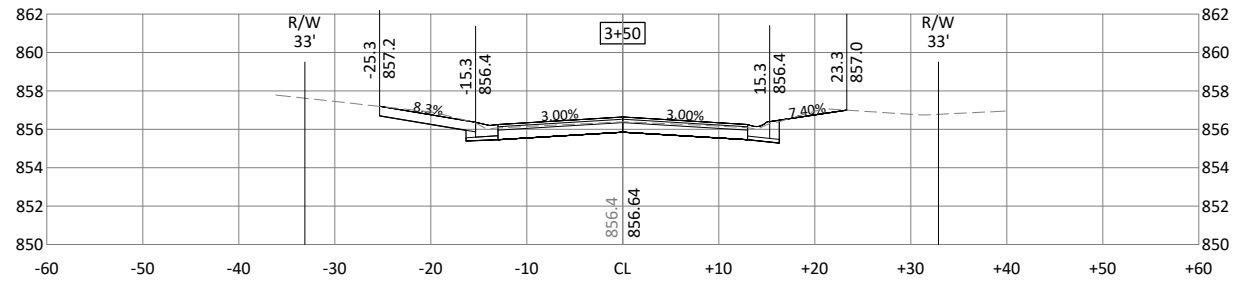


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CITY OF RAMSEY, MINNESOTA
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 CROSS SECTIONS
 RIVLYN AVE NW

SHEET
 31
 OF
 41

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ZACHARY F. CINGL, P.E.
 LIC. NO. 56344 DATE 03/27/2025



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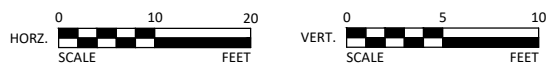
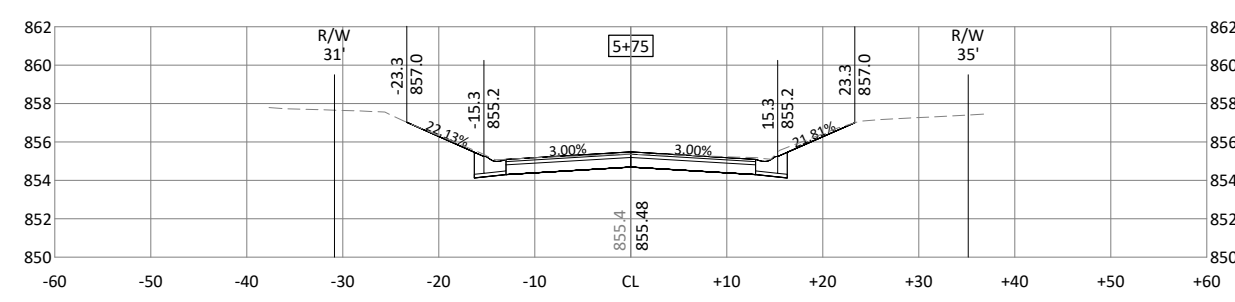
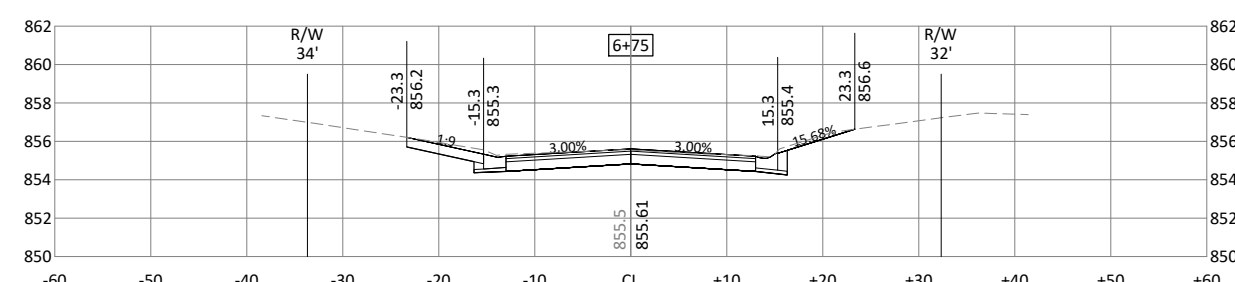
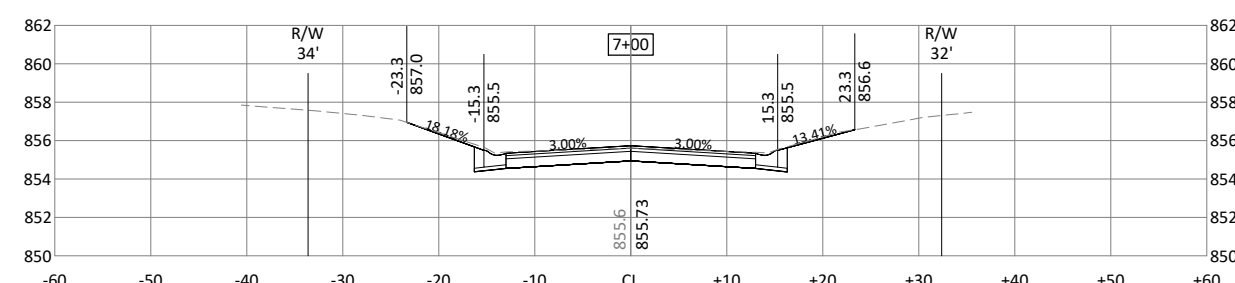
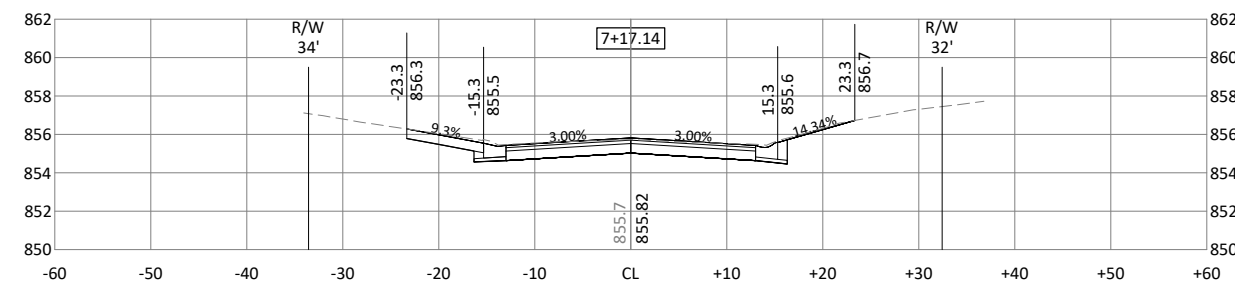
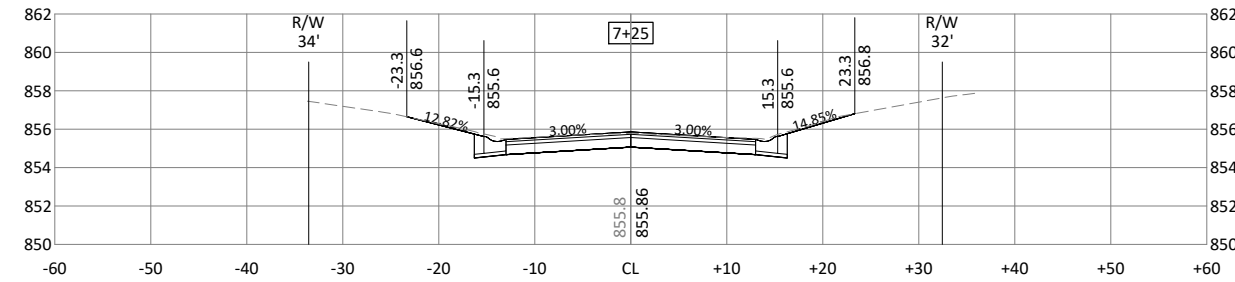
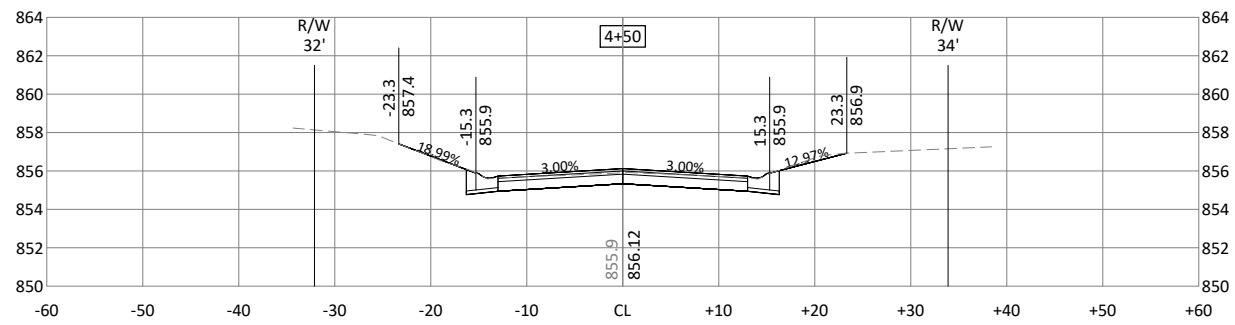
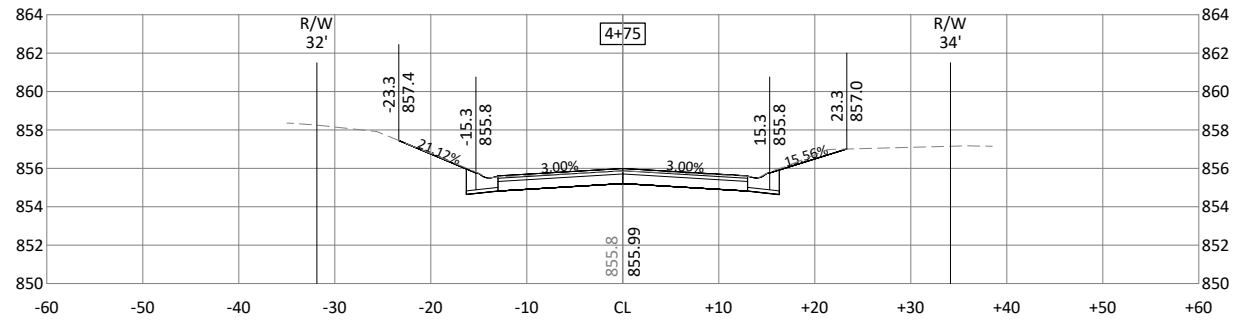
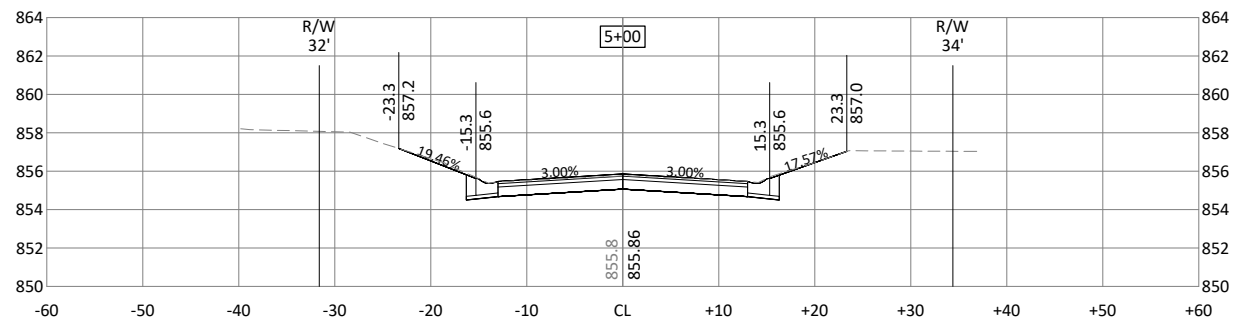
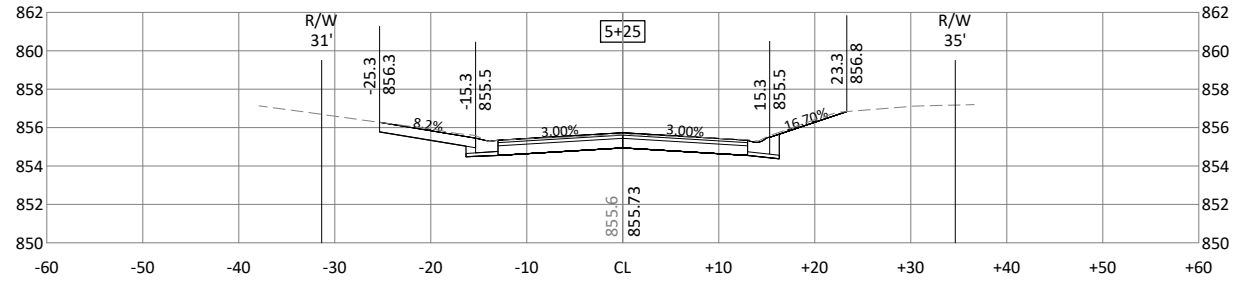
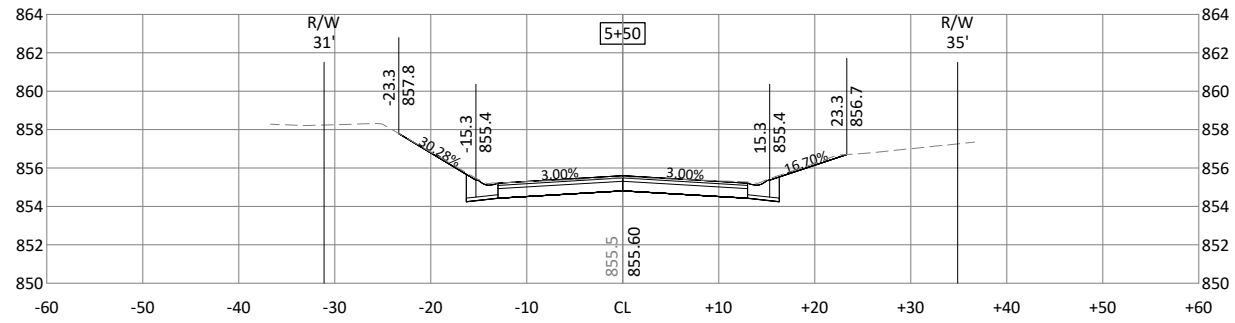


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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 CROSS SECTIONS
 RIVLYN AVE NW

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 32
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 41

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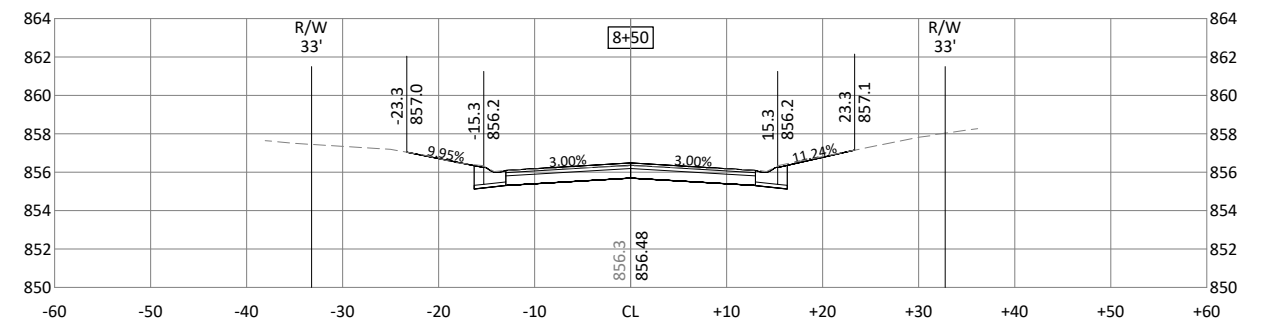
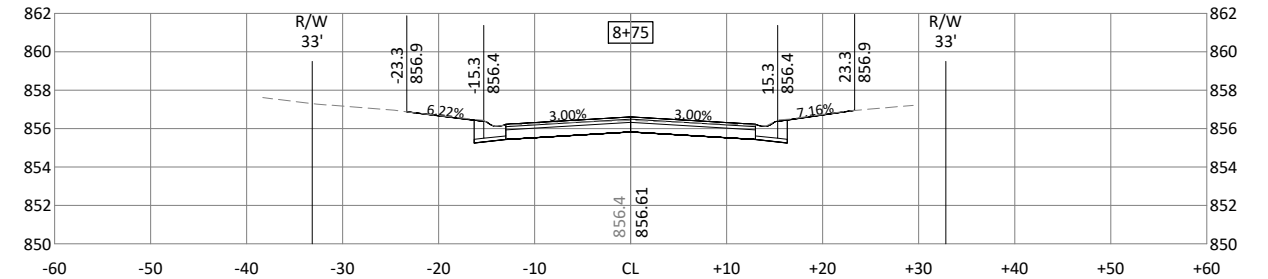
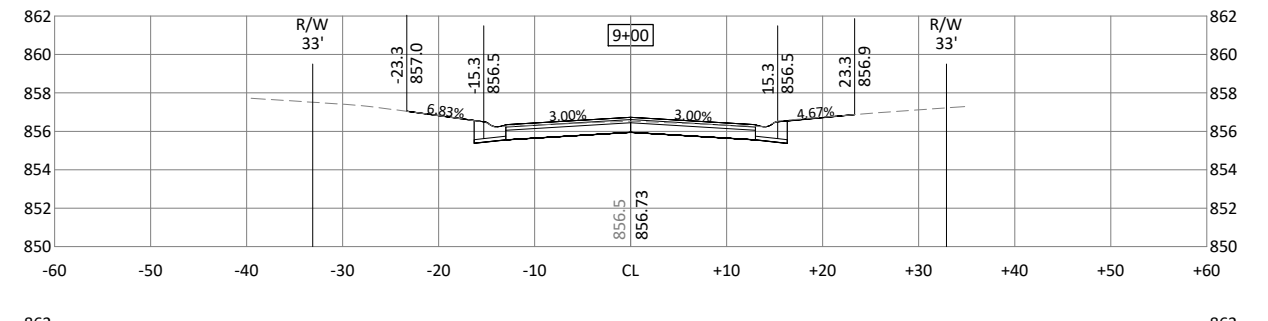
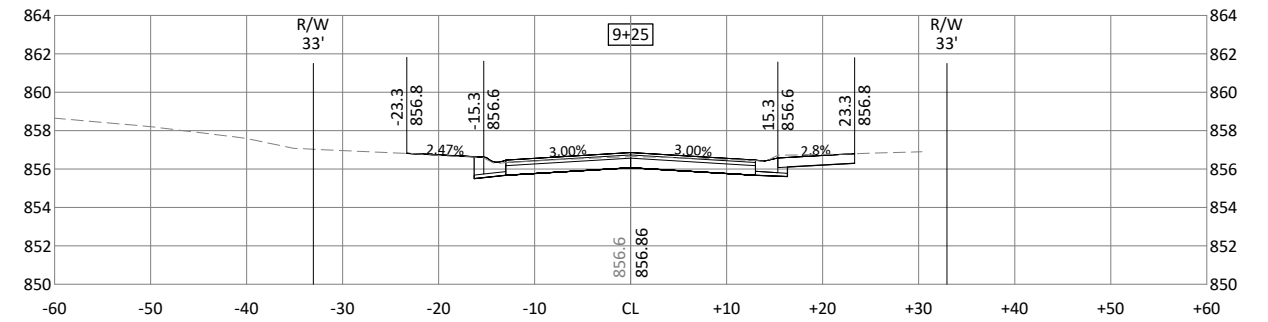
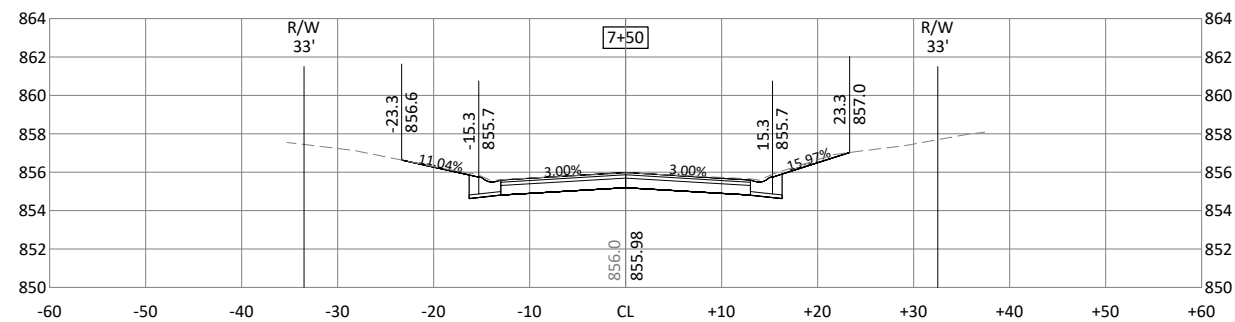
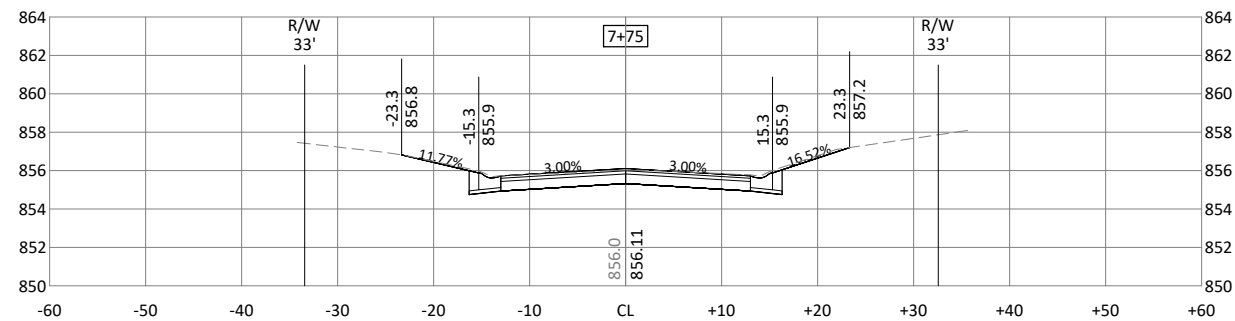
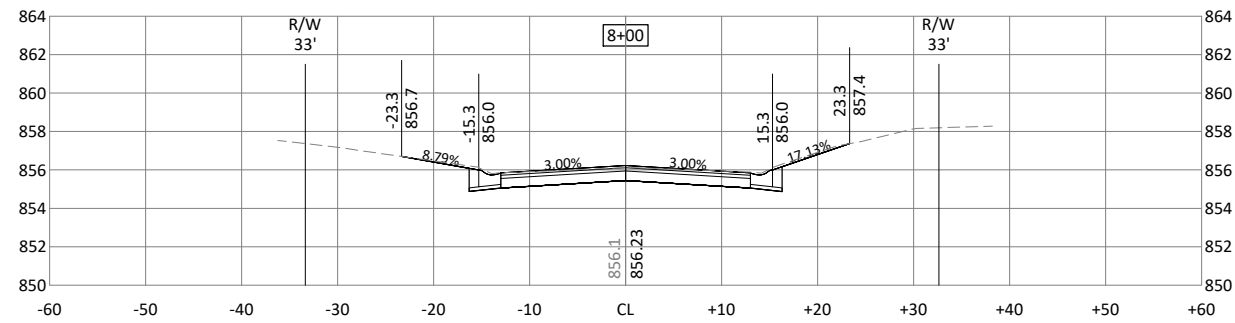
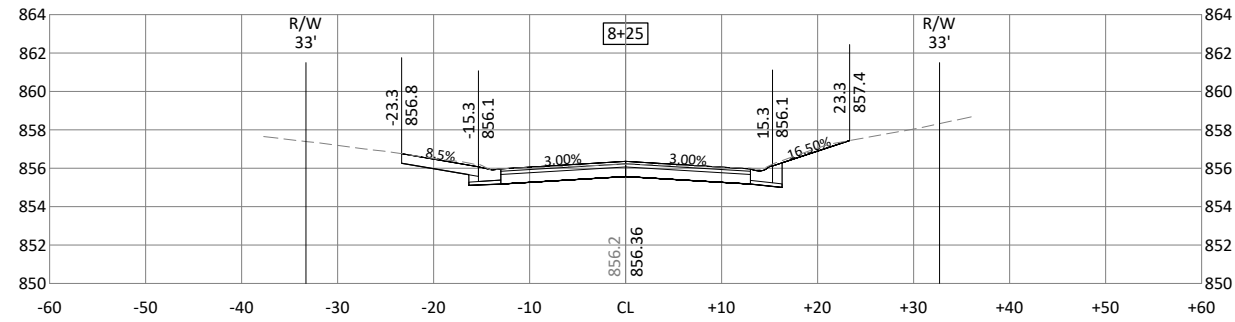
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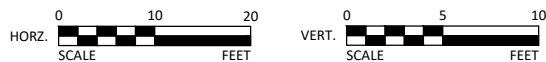
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CITY OF RAMSEY, MINNESOTA
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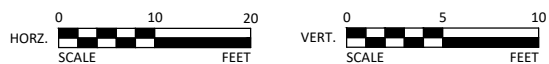
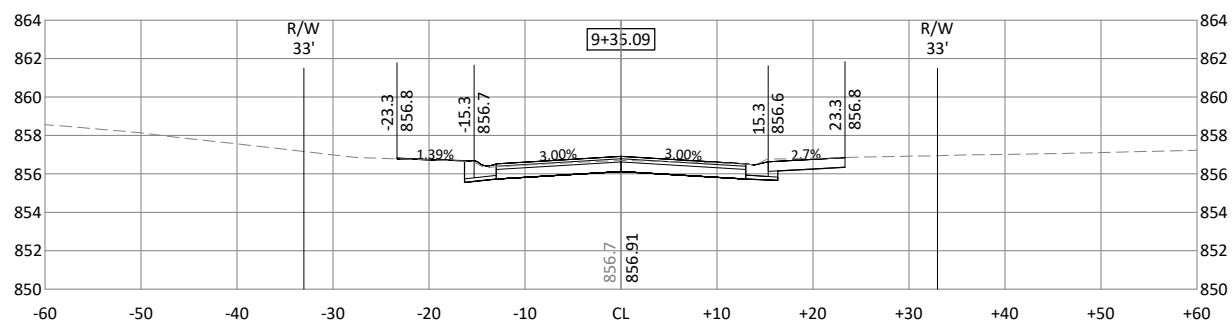
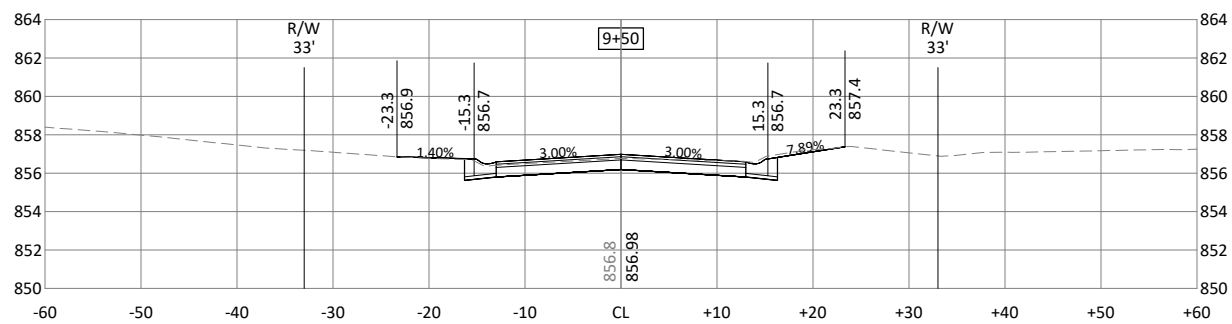
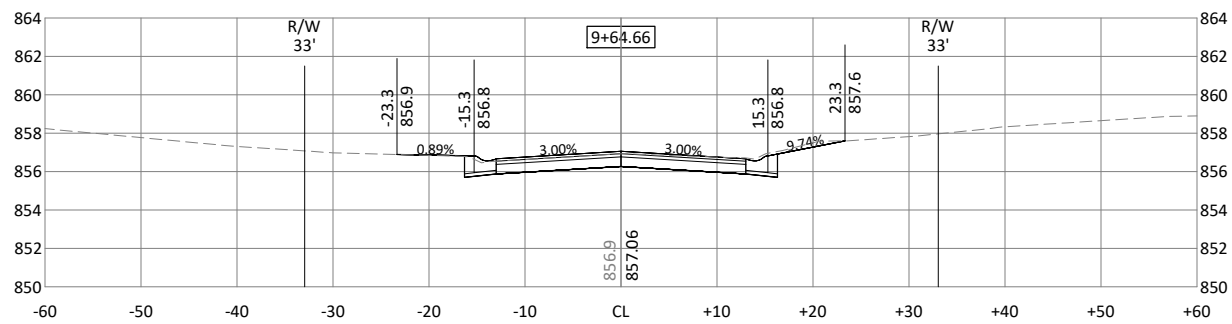


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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
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 RIVLYN AVE NW

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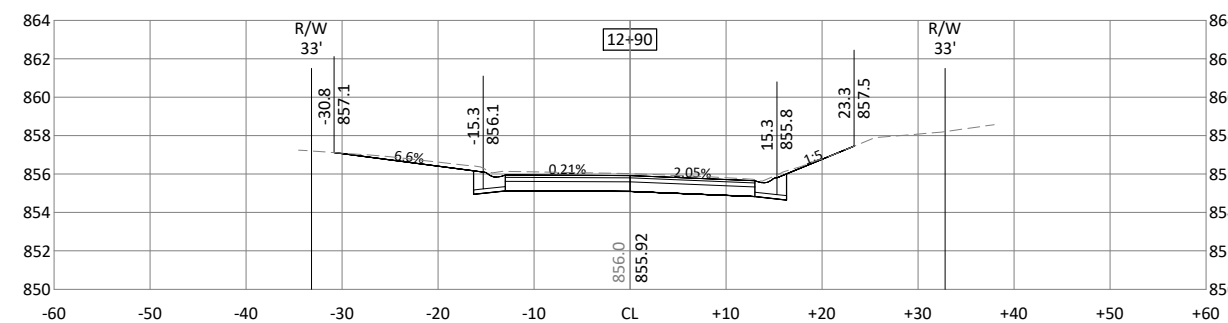
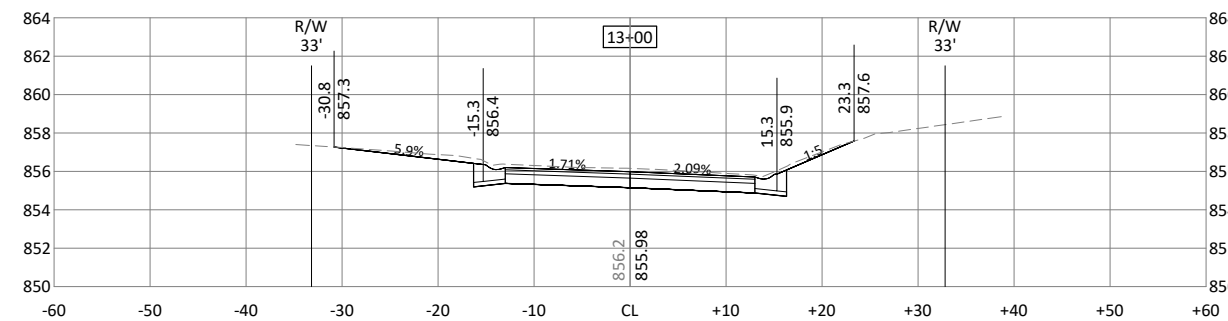
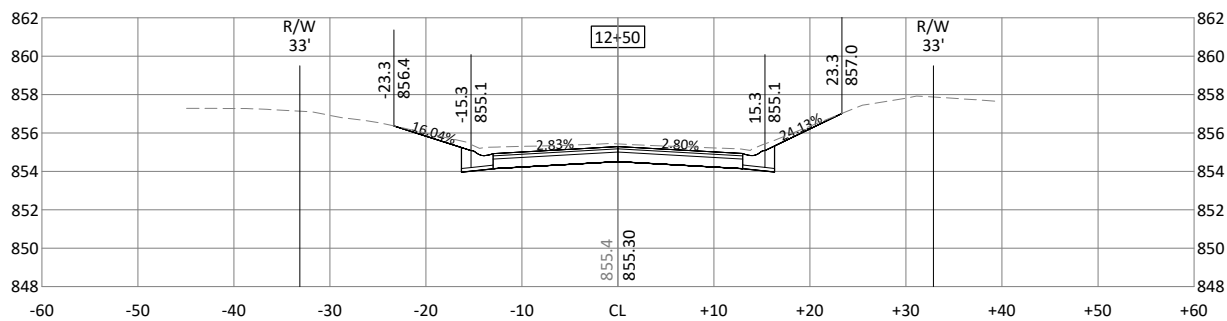
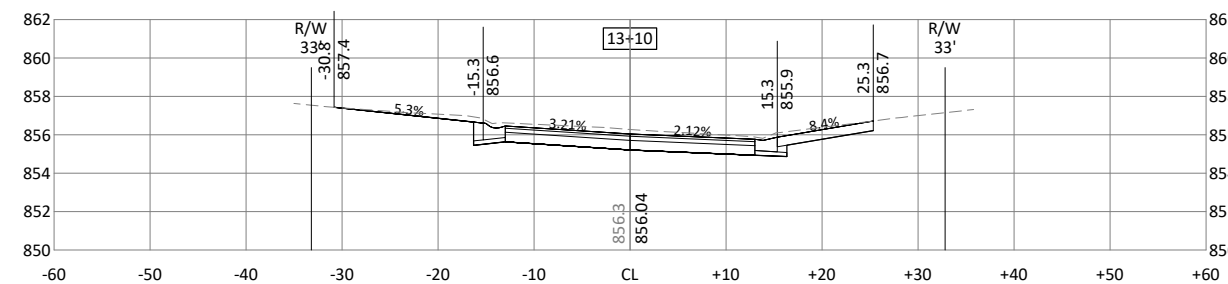
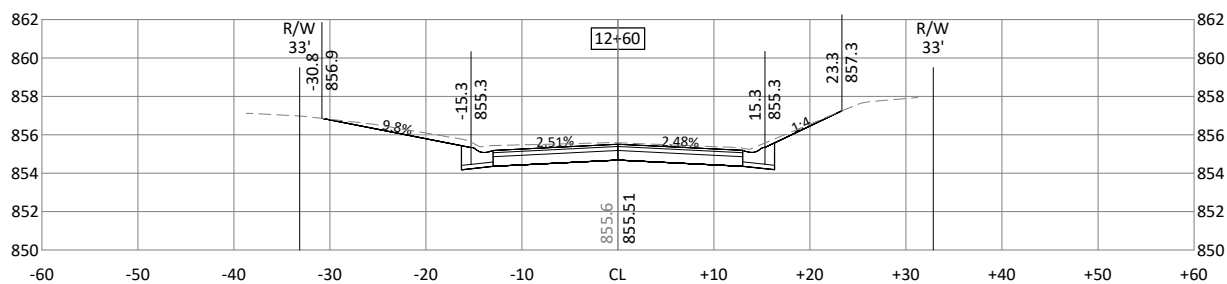
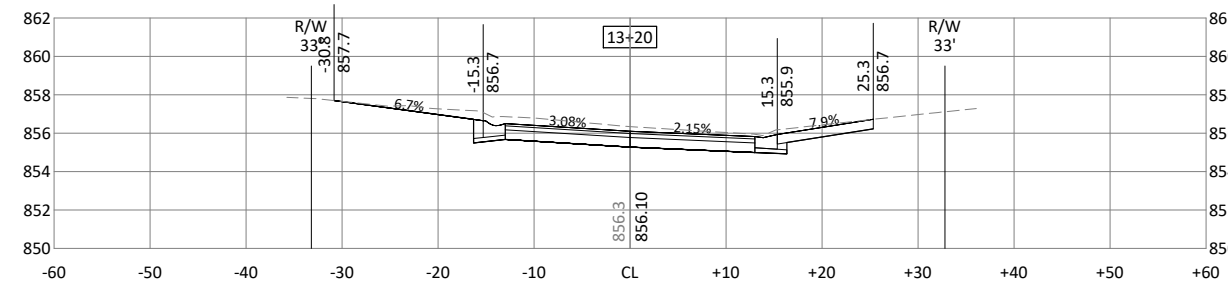
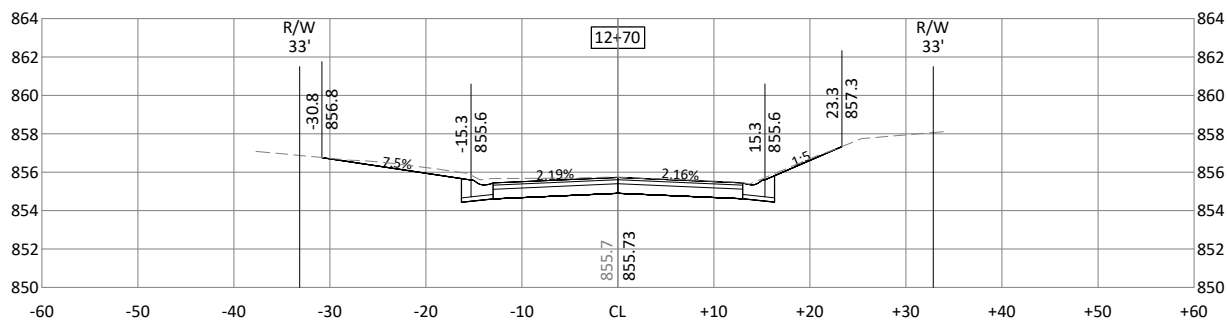
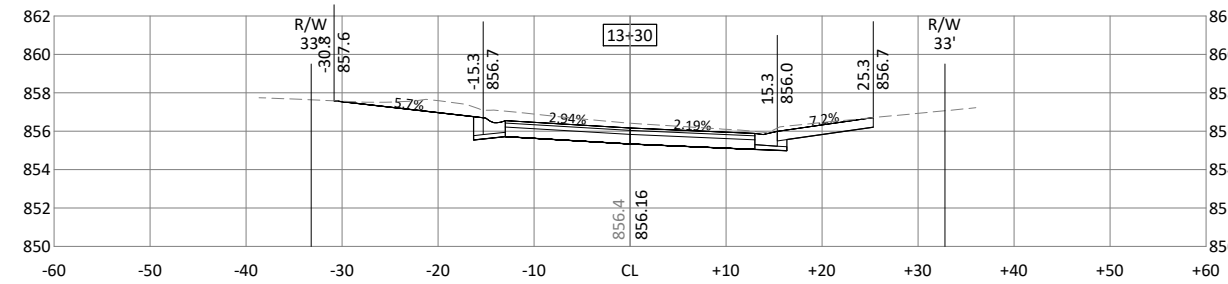
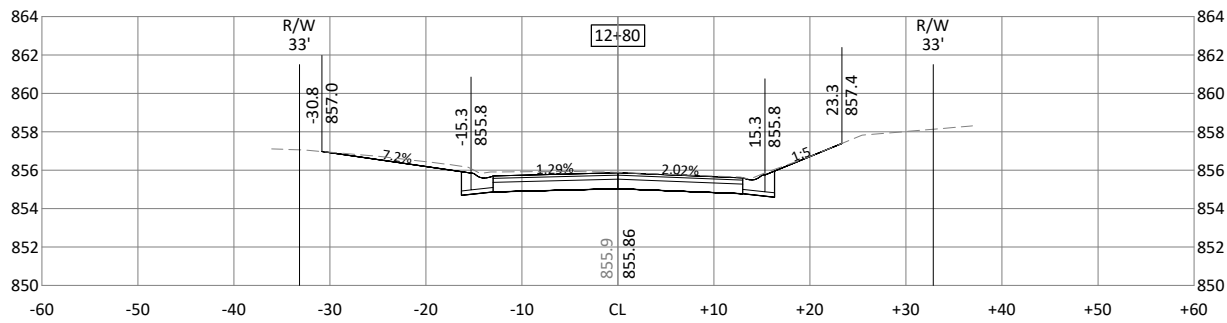
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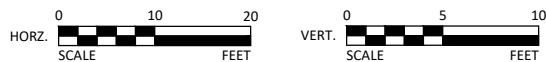
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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 CROSS SECTIONS
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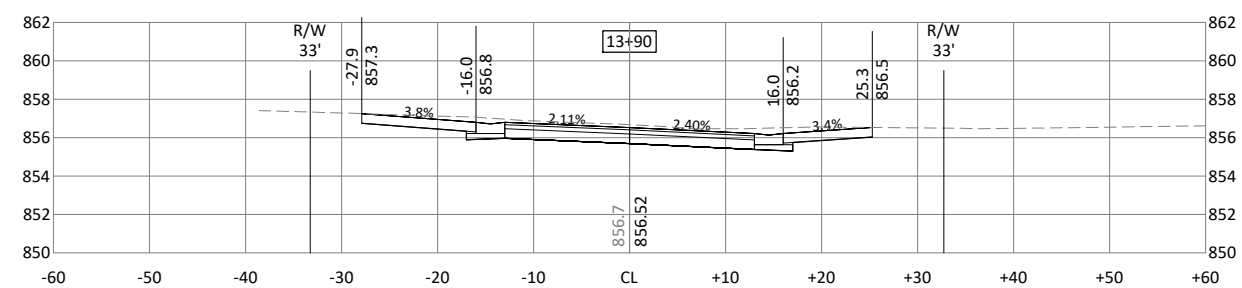
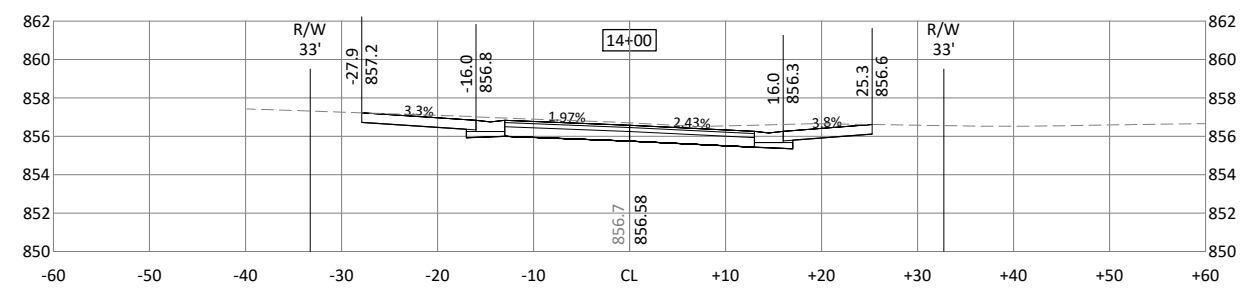
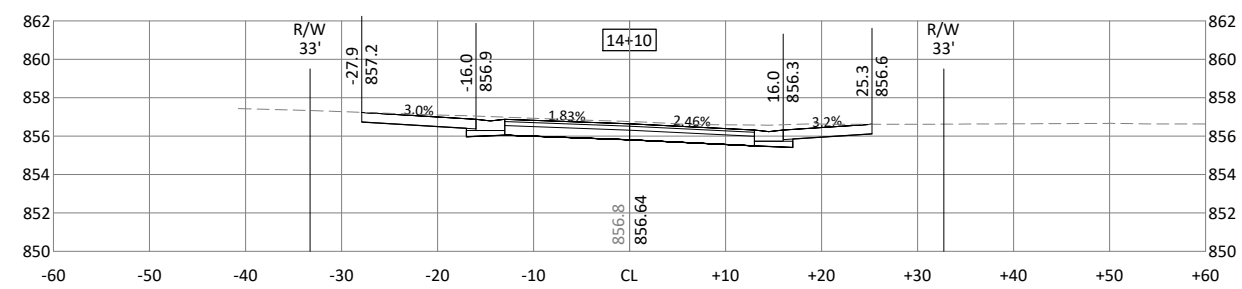
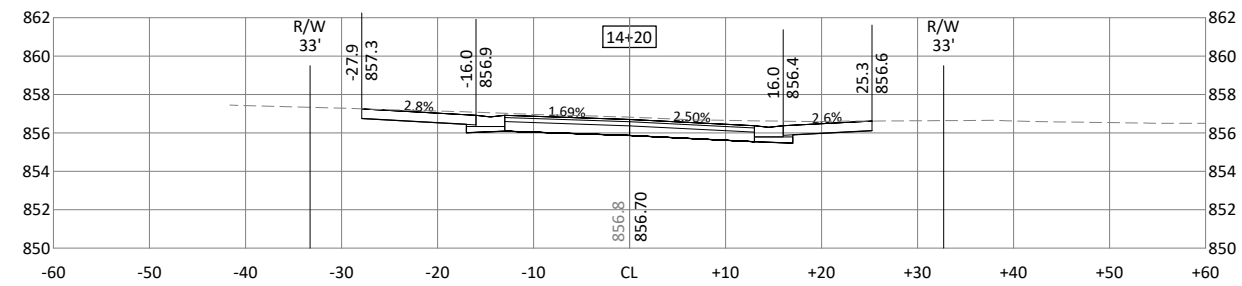
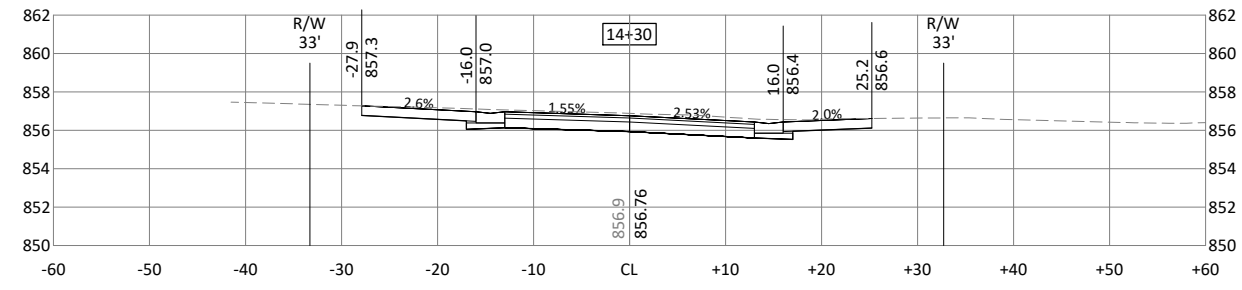
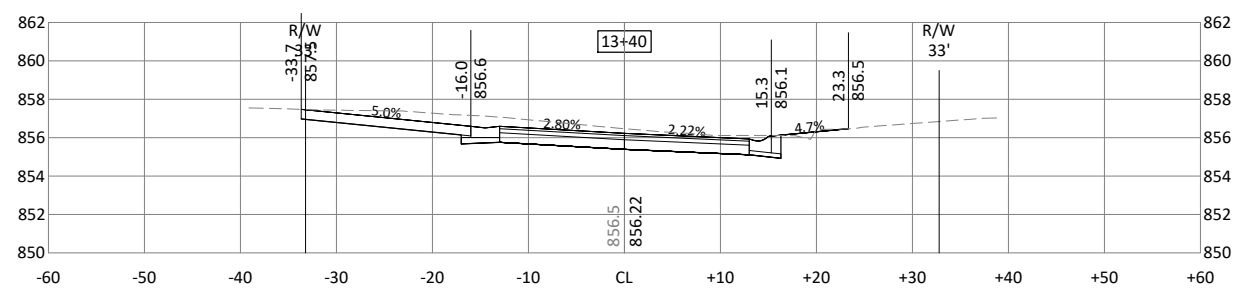
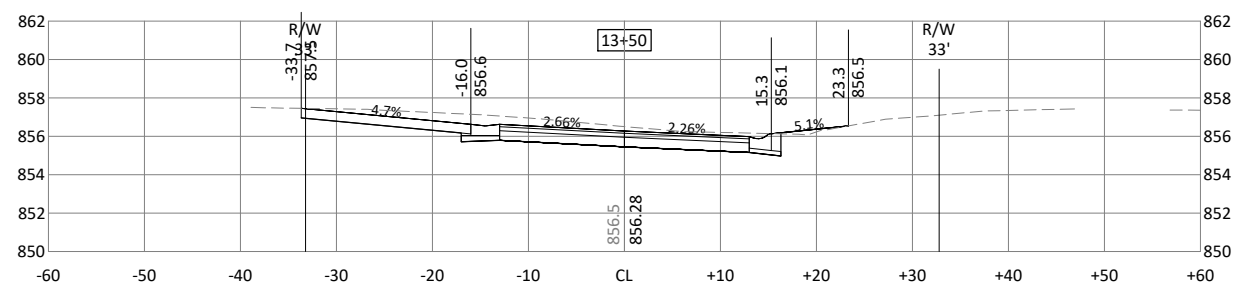
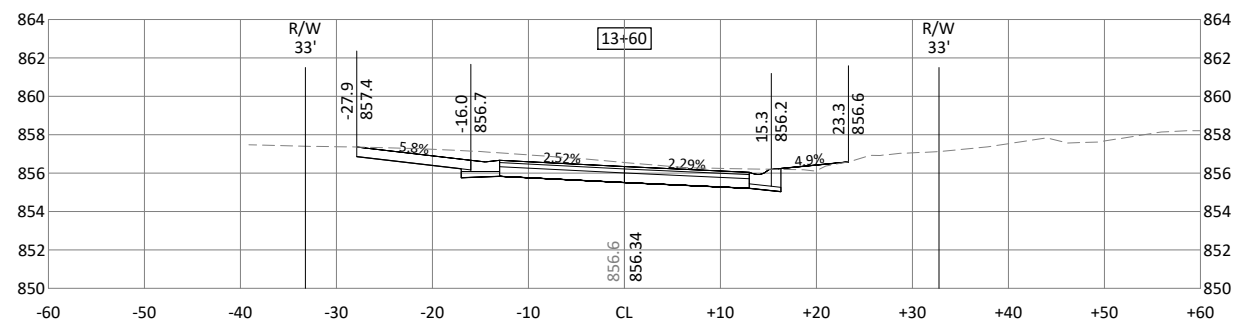
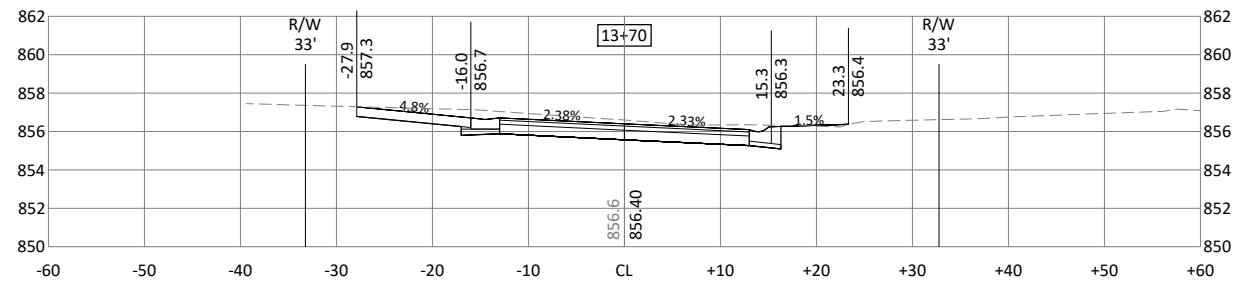
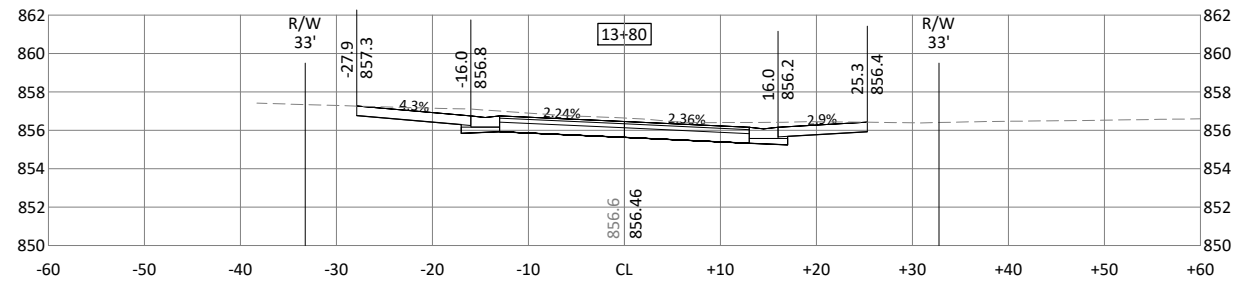
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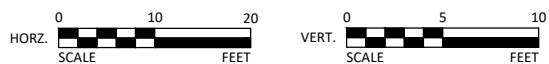
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 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 CROSS SECTIONS
 TUNGSTEN ST NW

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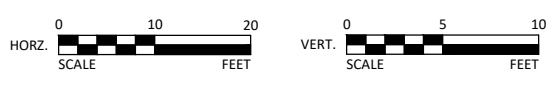
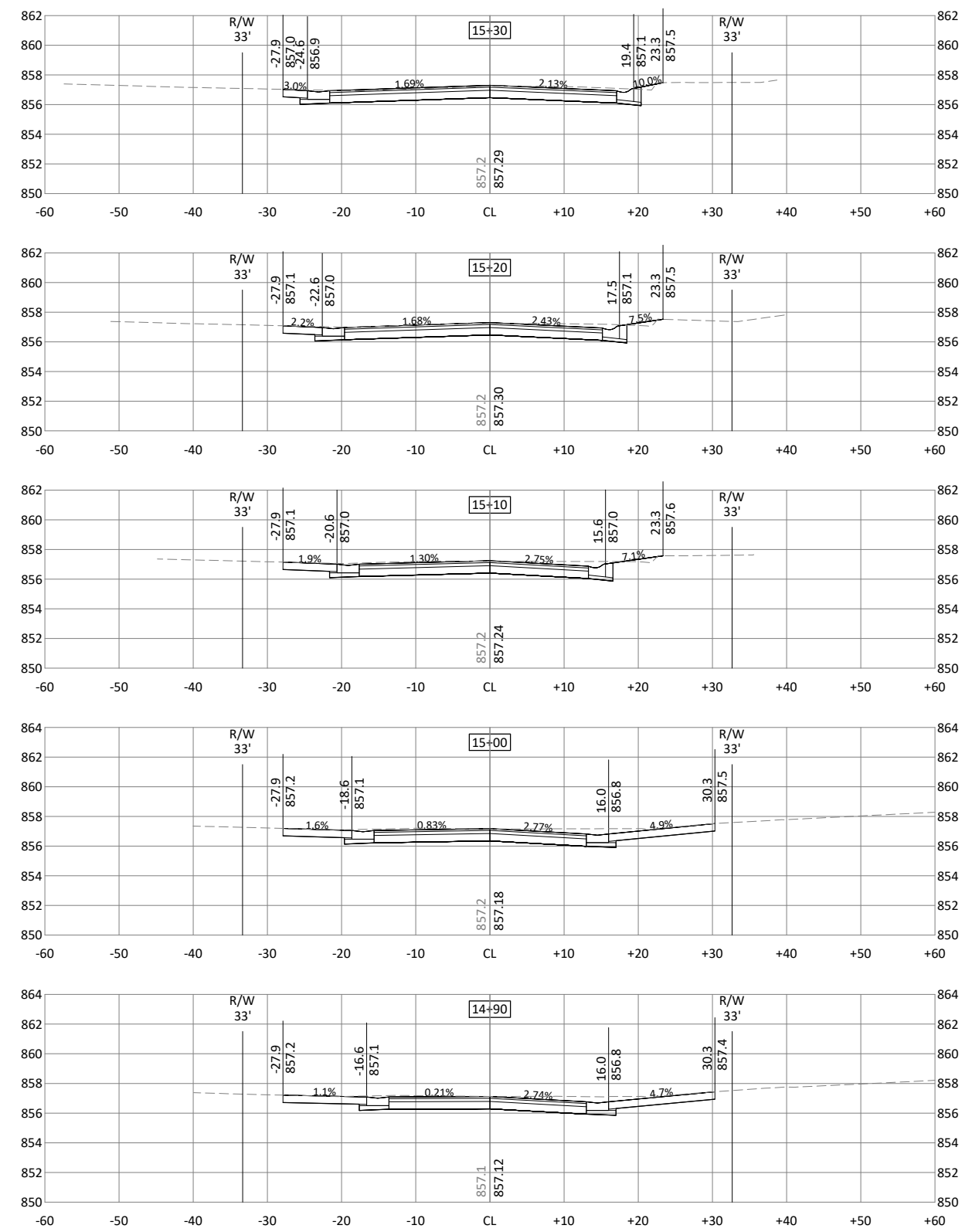
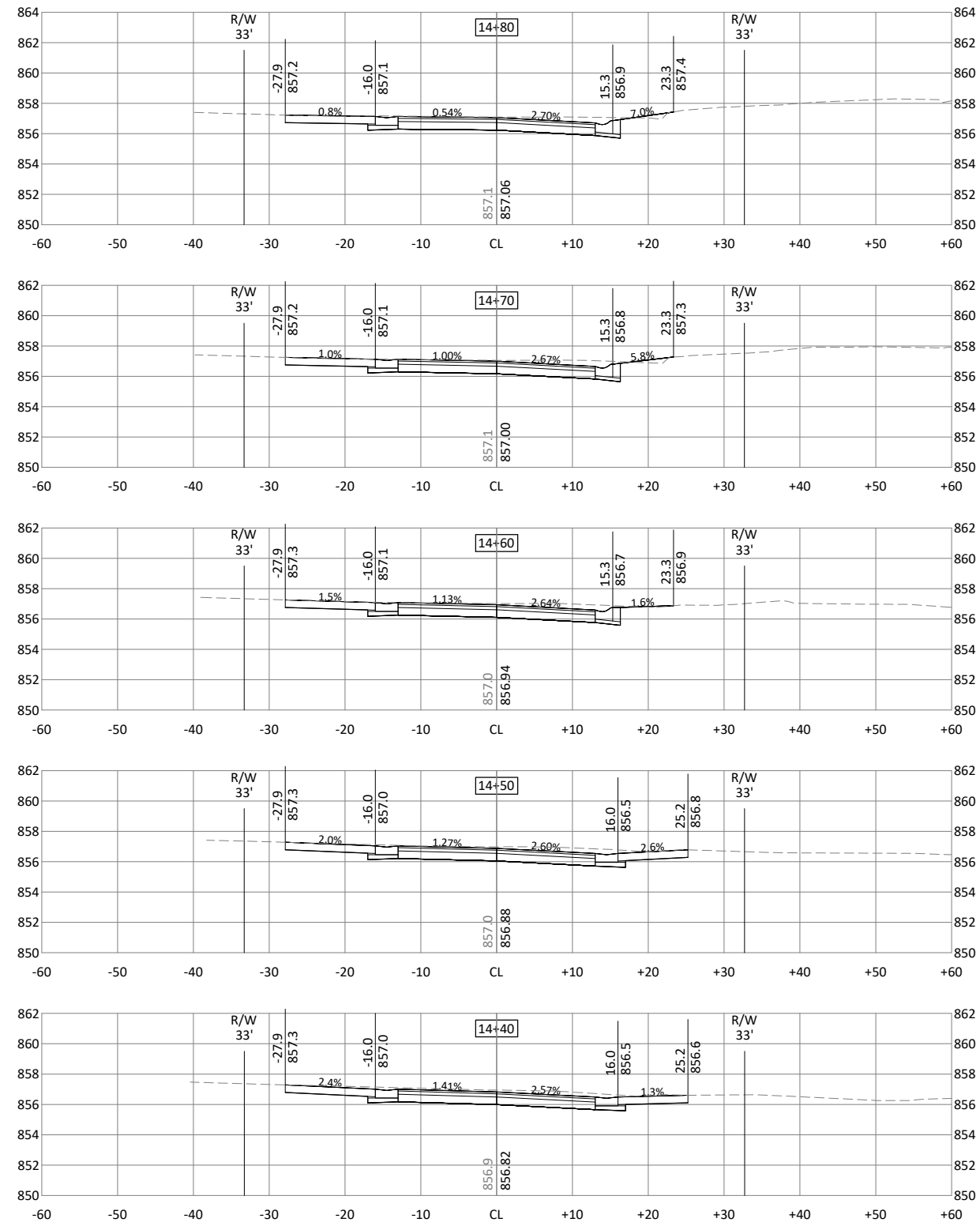


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 CROSS SECTIONS
 TUNGSTEN ST NW

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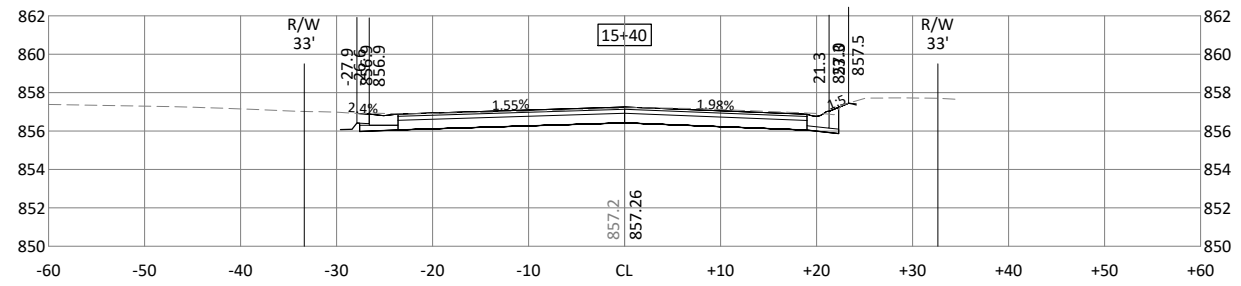
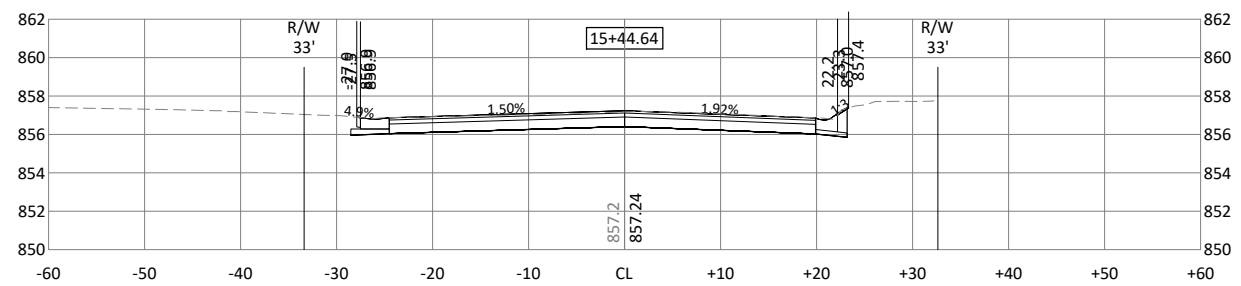


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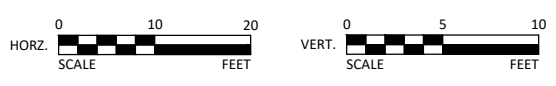


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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 CROSS SECTIONS
 TUNGSTEN ST NW

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 39
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LEGEND

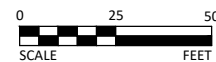
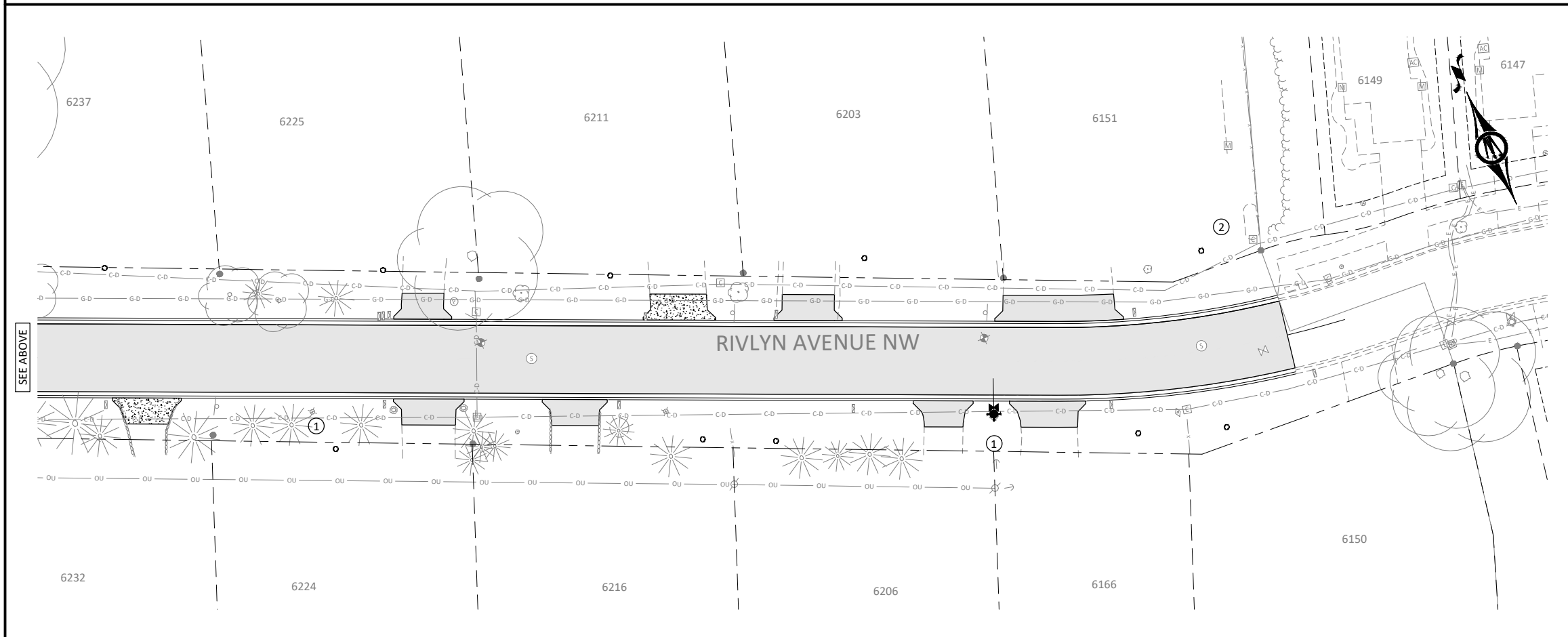
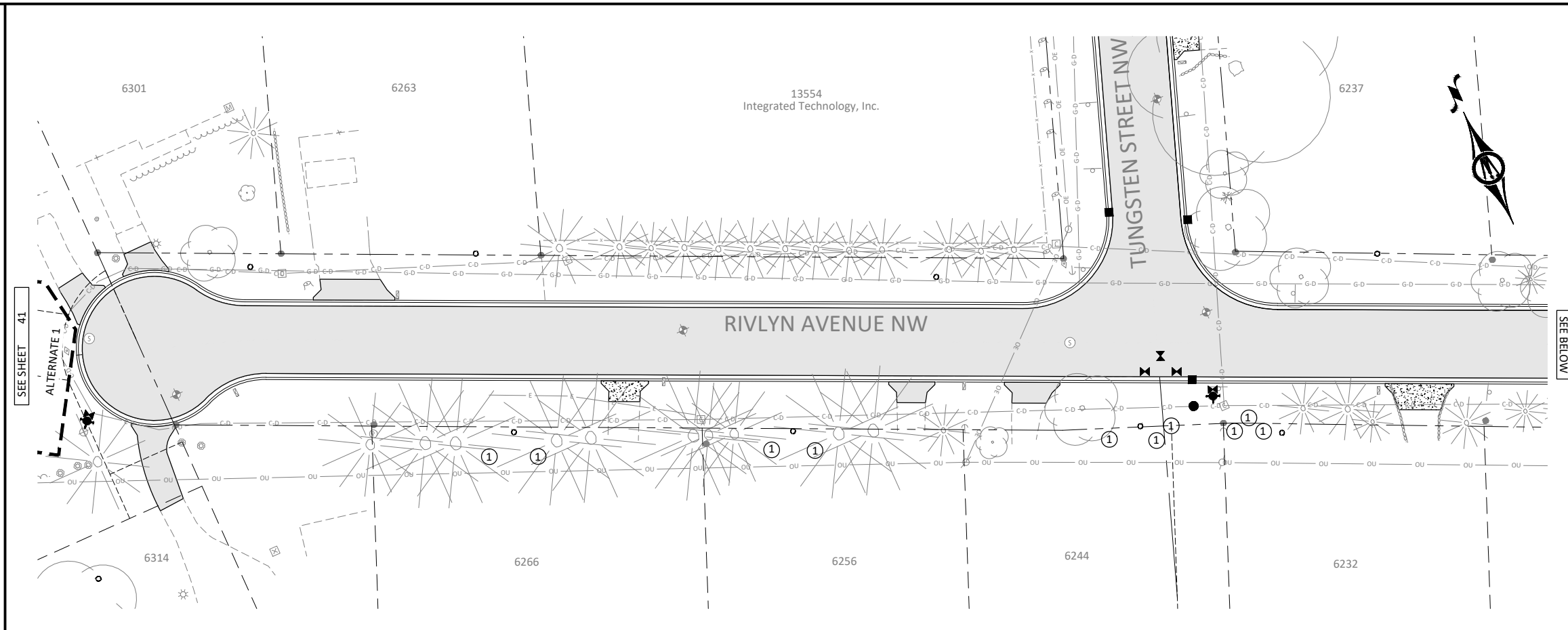
- ① PROPOSED CONIFEROUS TREE LOCATION
- ② PROPOSED DECIDUOUS TREE LOCATION
- ☀ TREE-CONIFEROUS
- ☀ TREE-DECIDUOUS
- ⊙ CLEANOUT
- ⊙ STORM MANHOLE
- ⊙ SANITARY MANHOLE
- ⊙ STORM CATCH BASIN
- ▽ FLARED END SECTION

- CURB & GUTTER
- - - EXISTING EASEMENT LINE
- - - EXISTING RIGHT-OF-WAY
- X FENCE
- G UNDERGROUND GAS
- C UNDERGROUND COMM
- OU OVERHEAD UTILITY
- F FIBER OPTIC LINE
- I WATERMAIN
- > SANITARY SEWER
- >> STORM SEWER

- ⊙ BOLLARD
- ⊙ POST
- ⊙ UTILITY MARKER - GAS
- ⊙ TRANSFORMER-ELECTRIC
- ⊙ PEDESTAL-COMMUNICATION
- ⊙ PEDESTAL-ELECTRIC
- ⊙ HANDHOLE
- ⊙ POLE-UTILITY
- ⊙ GUY WIRE ANCHOR
- ⊙ EXISTING TRAFFIC SIGN
- ⊙ FIRE HYDRANT
- ⊙ VALVE

NOTES

1. TREE LOCATIONS TO BE DETERMINED IN THE FIELD BY THE RESIDENT AND ENGINEER.



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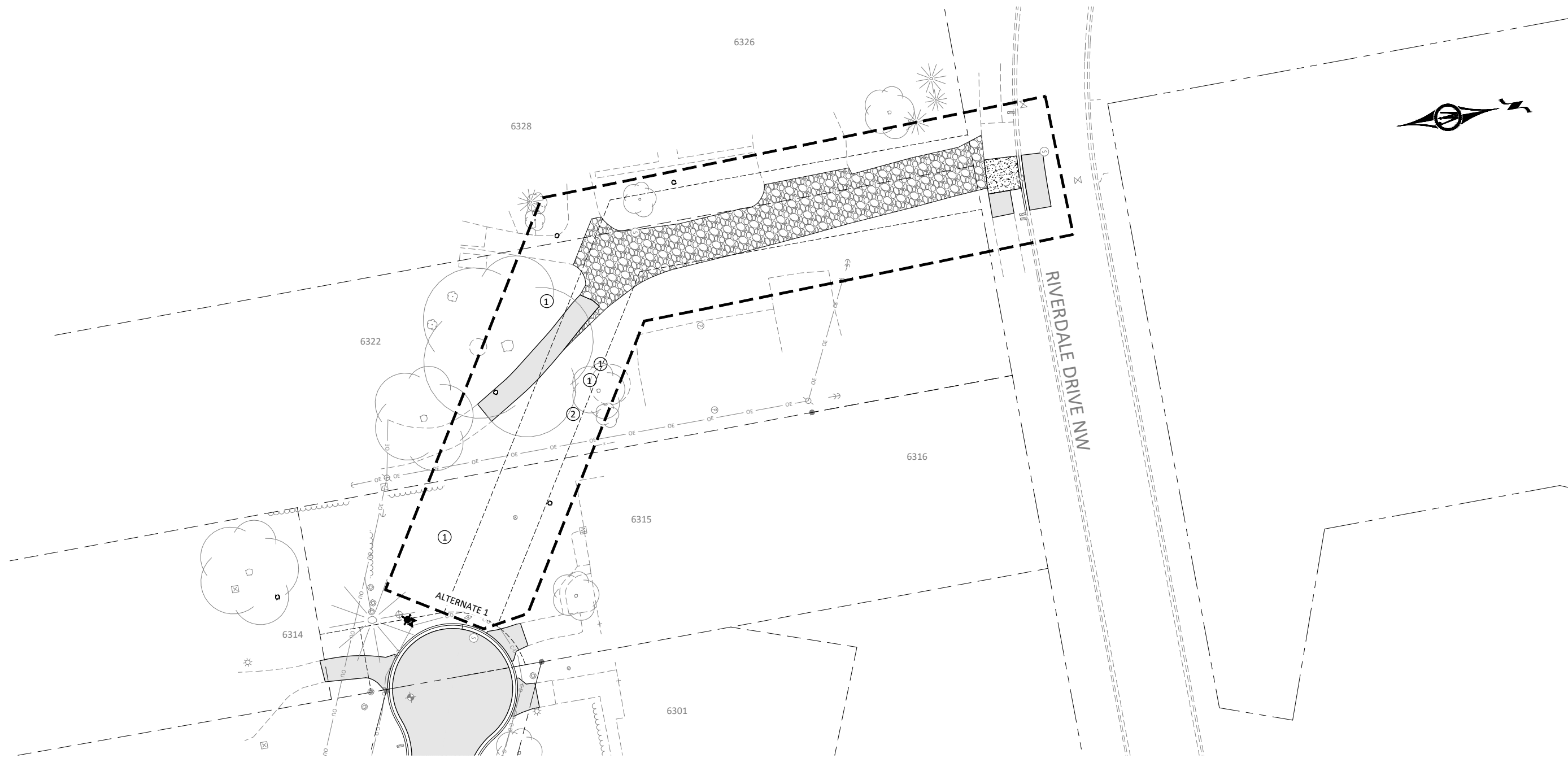
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CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 LANDSCAPE PLAN
 RIVLYN AVE NW

SHEET 40 OF 41



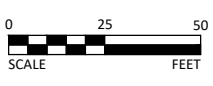
SEE SHEET 40

LEGEND		
①	PROPOSED CONIFEROUS TREE LOCATION	===== CURB & GUTTER
②	PROPOSED DECIDUOUS TREE LOCATION	----- EXISTING EASEMENT LINE
☀	TREE-CONIFEROUS	----- EXISTING RIGHT-OF-WAY
☀	TREE-DECIDUOUS	— X — FENCE
⊙	CLEANOUT	— G — G UNDERGROUND GAS
⊙	STORM MANHOLE	— C — C UNDERGROUND COMM
⊙	SANITARY MANHOLE	— OU — OVERHEAD UTILITY
⊙	STORM CATCH BASIN	— F — F FIBER OPTIC LINE
▽	FLARED END SECTION	— I — I WATERMAIN
		— > — SANITARY SEWER
		— >> — STORM SEWER
		⊙ BOLLARD
		⊙ POST
		⊙ UTILITY MARKER - GAS
		⊙ TRANSFORMER-ELECTRIC
		⊙ PEDESTAL-COMMUNICATION
		⊙ PEDESTAL-ELECTRIC
		⊙ HANDHOLE
		⊙ POLE-UTILITY
		⊙ GUY WIRE ANCHOR
		⊙ EXISTING TRAFFIC SIGN
		⊙ FIRE HYDRANT VALVE

NOTES

- TREE LOCATIONS TO BE DETERMINED IN THE FIELD BY THE RESIDENT AND ENGINEER.

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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.

ZACHARY F. TINGL, P.E.
 LIC. NO. 56344 DATE 03/27/2025



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CLIENT PROJ. NO.	25-04		

CITY OF RAMSEY, MINNESOTA
 DICKENSON'S MISSISSIPPI ESTATES STREET RECONSTRUCTION
 LANDSCAPE PLAN
 ALTERNATE 1

SHEET 41 OF 41