

CITY OF RAMSEY

9591 INVERNESS LANE DRAINAGE IMPROVEMENTS

CITY IMPROVEMENT PROJECT NO. 20-08

GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

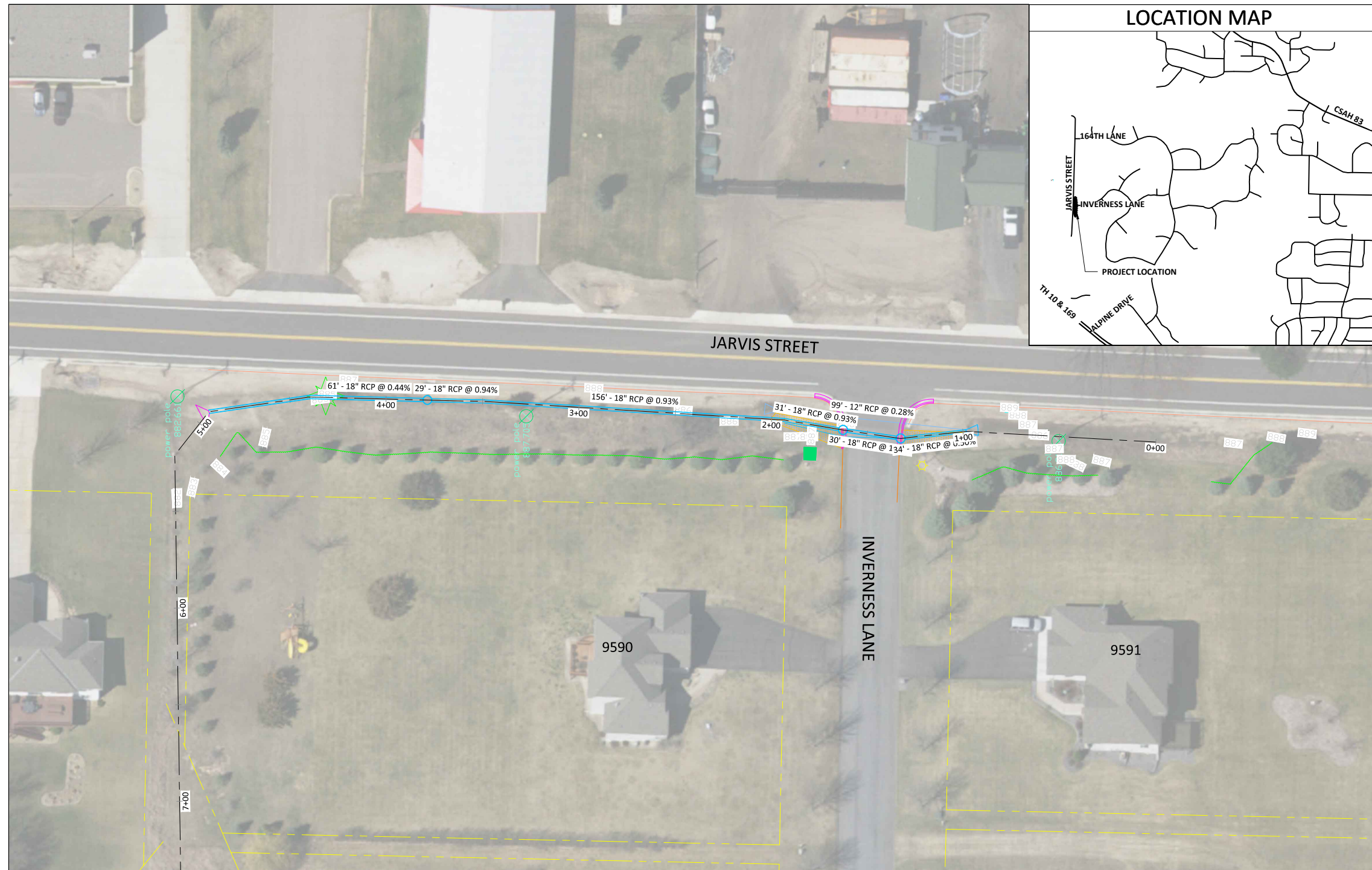
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

SHEET INDEX

THIS PLAN CONTAINS 7 SHEETS

SHEET No.	DESCRIPTION
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1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES / NOTES
3	DETAILS
4	EXISTING CONDITIONS & REMOVALS
5	STORM SEWER AND GRADING
6	RESTORATION
7	CROSS SECTIONS



LEGEND

	LIGHT POLE		EASEMENT
	TREE		RIGHT OF WAY
	SHRUB		ELECTRIC
	SIGN		OVERHEAD ELECTRIC
	VALVE		GAS
	UTILITY PEDESTAL		TELECOMMUNICATIONS
	HAND HOLE		STORM SEWER
	REMOVE TREE		SANITARY SEWER
	3'X2' CATCH BASIN		WATERMAIN
	MANHOLE		SAWCUT PAVEMENT
	INLET PROTECTION		TREE LINE
	HYDRANT		FENCE
	VALVE		LANDSCAPING
			RETAINING WALL
			5' CONTOUR LINE
			1' CONTOUR LINE

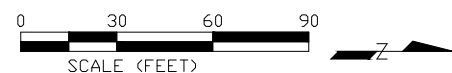
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JOE FERIANCEK, P.E.
 CITY OF RAMSEY

57095 LIC. NO. DATE 8/21/20

DATE	REVISION

SHEET 1 OF 7 SHEETS



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY 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."

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



Call before you dig
 811
 651 454-0002 Metro
 800 252-1166 Outstate
www.gopherstateonecall.org

**20-08 9591 Inverness Lane Drainage Improvements
Estimated Quantities**

Notes	Item No.	MnDOT No.	Item	Unit	Estimated Quantity
	1	2021.501	Mobilization	LS	1
1	2	2101.524	Clearing & Grubbing Tree	TREE	1
	3	2104.502	Remove Bituminous Flume	EA	2
	4	2104.502	Remove Pipe Apron	EA	2
1	5	2104.503	Sawing Bituminous Pavement	LF	88
1	6	2104.503	Remove Concrete Curb & Gutter	LF	21
	7	2104.503	Remove Sewer Pipe (Storm)	LF	99
1	8	2104.504	Remove Bituminous Pavement	SY	105
	9	2105.504	Geotextile Fabric Type IV	SY	26
2	10	2105.507	Common Excavation (EV)	CY	220
	11	2112.519	Subgrade Preparatin	RDST	1
2	12	2211.507	Aggregate Base (CV); Class 5 Modified	CY	15
1	13	2232.504	Mill Bituminous Surface (2.0")	SY	20
3	14	2357.506	Bituminous Material for Tack Coat	GAL	7
4	15	2360.509	Type SP 9.5 Wearing Course Mixture (1.5")	TON	8
4	16	2360.509	Type SP 12.5 Non Wearing Course Mixture (2.0")	TON	11
	17	2501.502	18" CS Pipe Apron	EA	2
	18	2501.602	Safety Grate for 18" CS Apron	EA	2
	19	2503.503	18" RC Pipe Sewer Design 3006	LF	30
	20	2503.503	18" HDPE Pipe Sewer	LF	364
	21	2504.601	Irrigation System Repair	LS	1
	22	2506.502	F&I Casting Assembly (Storm)	EA	3
	23	2506.503	Construct Drainage Structure Design 48-4020	LF	11.9
	24	2511.507	Random RipRap Class III	CY	9
	25	2531.503	Concrete Curb & Gutter Design B618	LF	70
5	26	2563.601	Traffic Control	LS	1
	27	2573.503	Silt Fence	LF	15
3	28	2574.507	Topsoil (LV)	CY	180
7	29	2574.508	Fertilizer Type III	LBS	30
8	30	2575.502	Seed Mixture 25-151	LBS	35
	31	2575.505	Hydroseeding	ACRE	0.26
9	32	2575.508	Hydraulic Mulch Matrix	LBS	1,040

PAY ITEM NOTES:

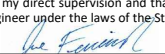
1. REMOVAL LIMITS SHALL BE MARKED IN THE FIELD BY CITY STAFF.
2. EV TO CV CONVERSION FACTOR = 1.25.
3. ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 0.07 GAL/SY.
4. ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 110 LB/SY-IN.
5. LUMP SUM QUANTITY SHALL INCLUDE ALL COST REQUIRED FOR MAINTAINING FLAGGING OPERATIONS AS NECESSARY, MAINTAINING PEDESTRIAN ACCESS ROUTES, ANY SIGNAGE AND BARRICADES AS NECESSARY.
6. LV TO CV CONVERSION FACTOR = 1.30.
7. ESTIMATED QUANTITY BASED ON 100 LB/ACRE.
8. ESTIMATED QUANTITY BASED ON 120 LB/ACRE.
9. ESTIMATED QUANTITY BASED ON 4000 LB/ACRE.

GENERAL NOTES:

1. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. IT IS NOT GUARANTEED ANY OR ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT CONSTRUCTION LIMITS BEFORE COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO IRRIGATION SYSTEMS.
3. PERMANENT SIGN REMOVAL AND INSTALLATION IS TO BE PERFORMED BY CITY OF RAMSEY PUBLIC WORKS DEPARTMENT.

DATE	REVISION

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JOE FERIANCEK
 Date 8/21/2020 Lic. No. 57095

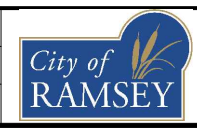
DESIGNED BY:
JJF

DRAWN BY:
JJF

CHECKED BY:
LLL

DATE:
8/21/20

FILE No.
20-08



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
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STATEMENT OF ESTIMATED QUANTITIES

9591 INVERNESS LANE DRAINAGE IMPROVEMENTS
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 CITY OF RAMSEY, MINNESOTA

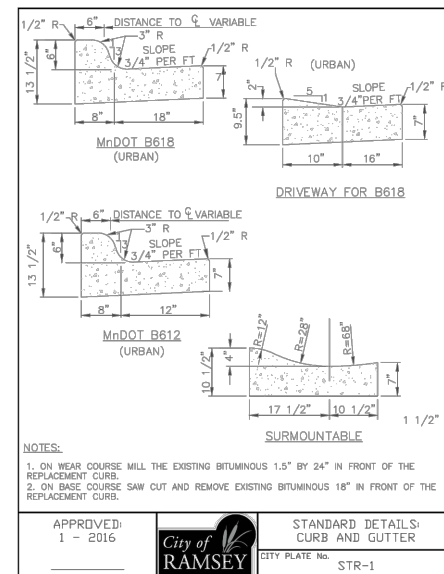
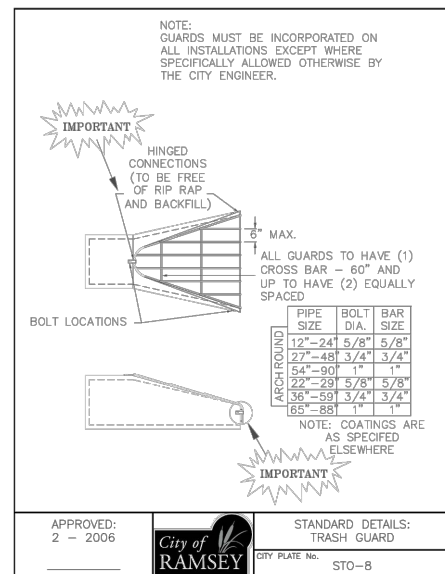
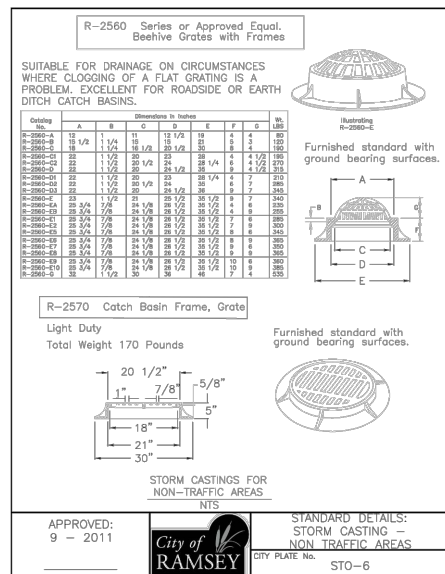
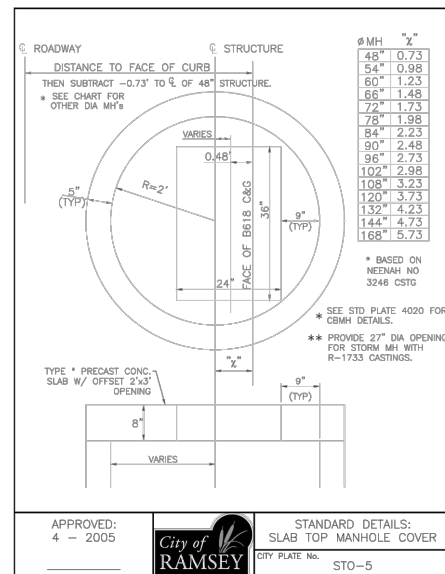
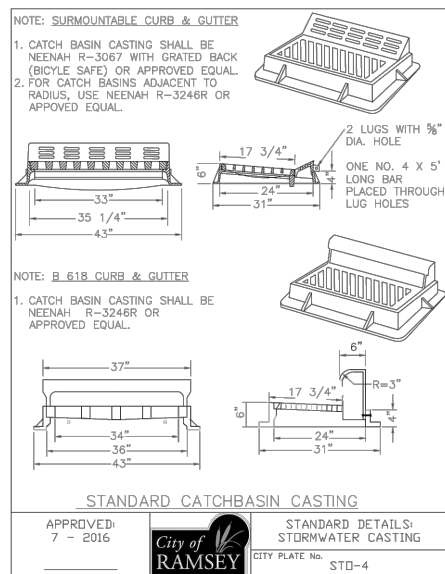
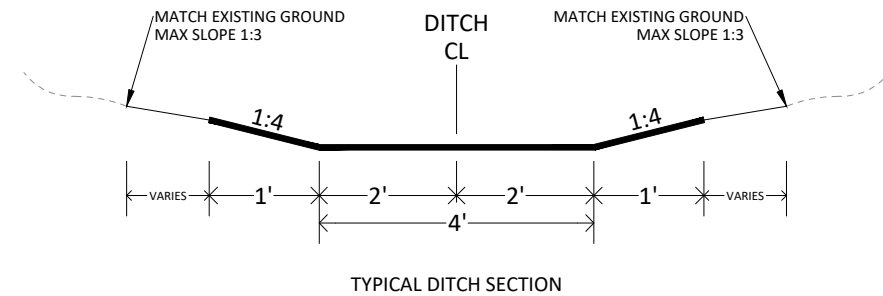
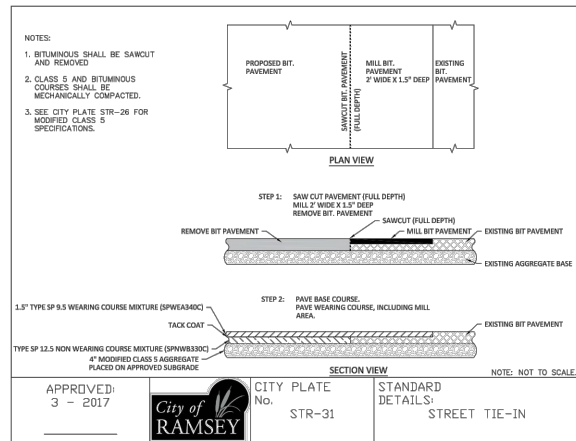


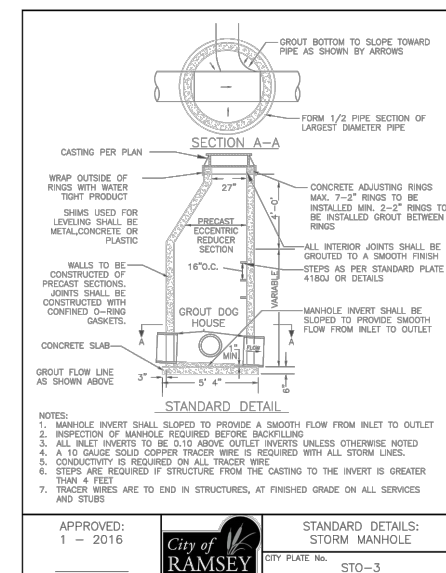
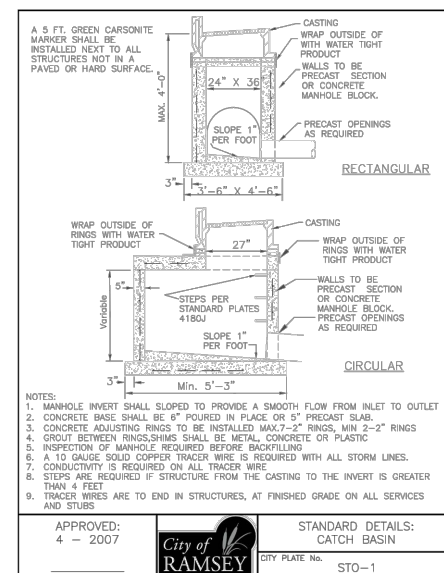
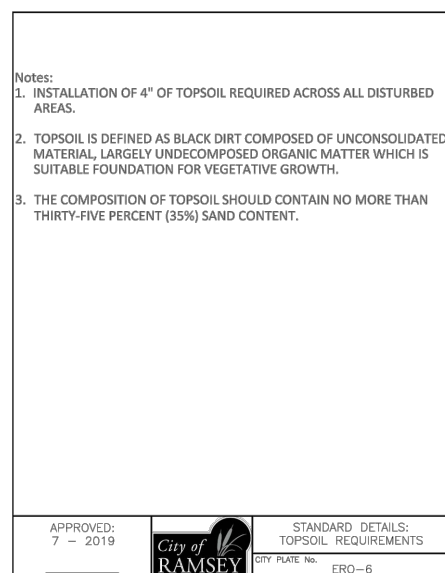
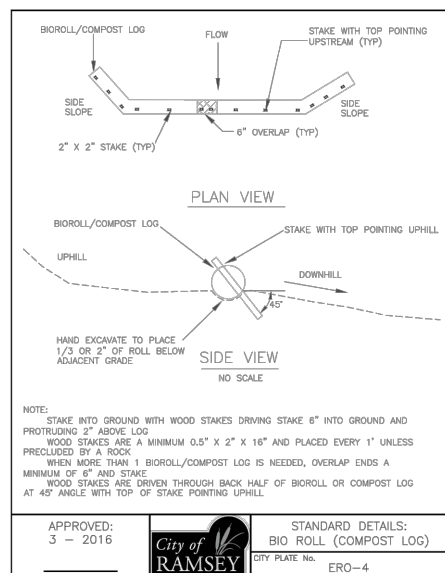
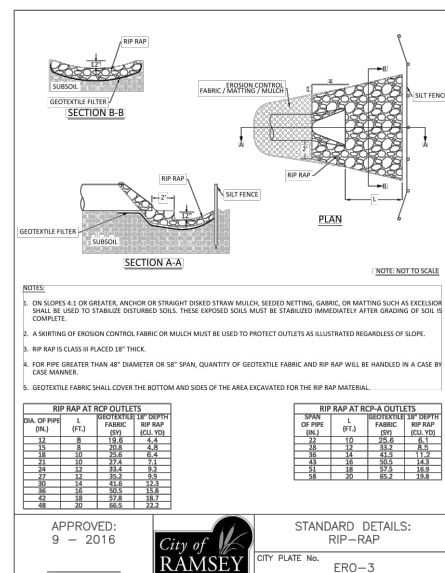
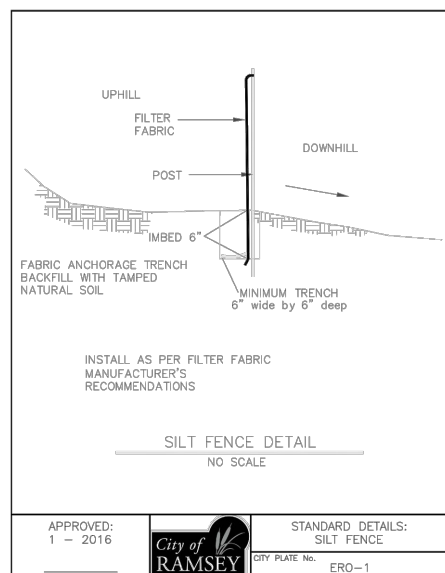
TABLE A
 MODIFIED CLASS 5
 SPECIFICATIONS

% 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 MEETS THE REQUIREMENTS OF TABLE A.
 3. IN THE EVENT THAT RECYCLED MATERIAL IS USED 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



DATE	REVISION

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 Date 8/21/2020 Lic. No. 57095

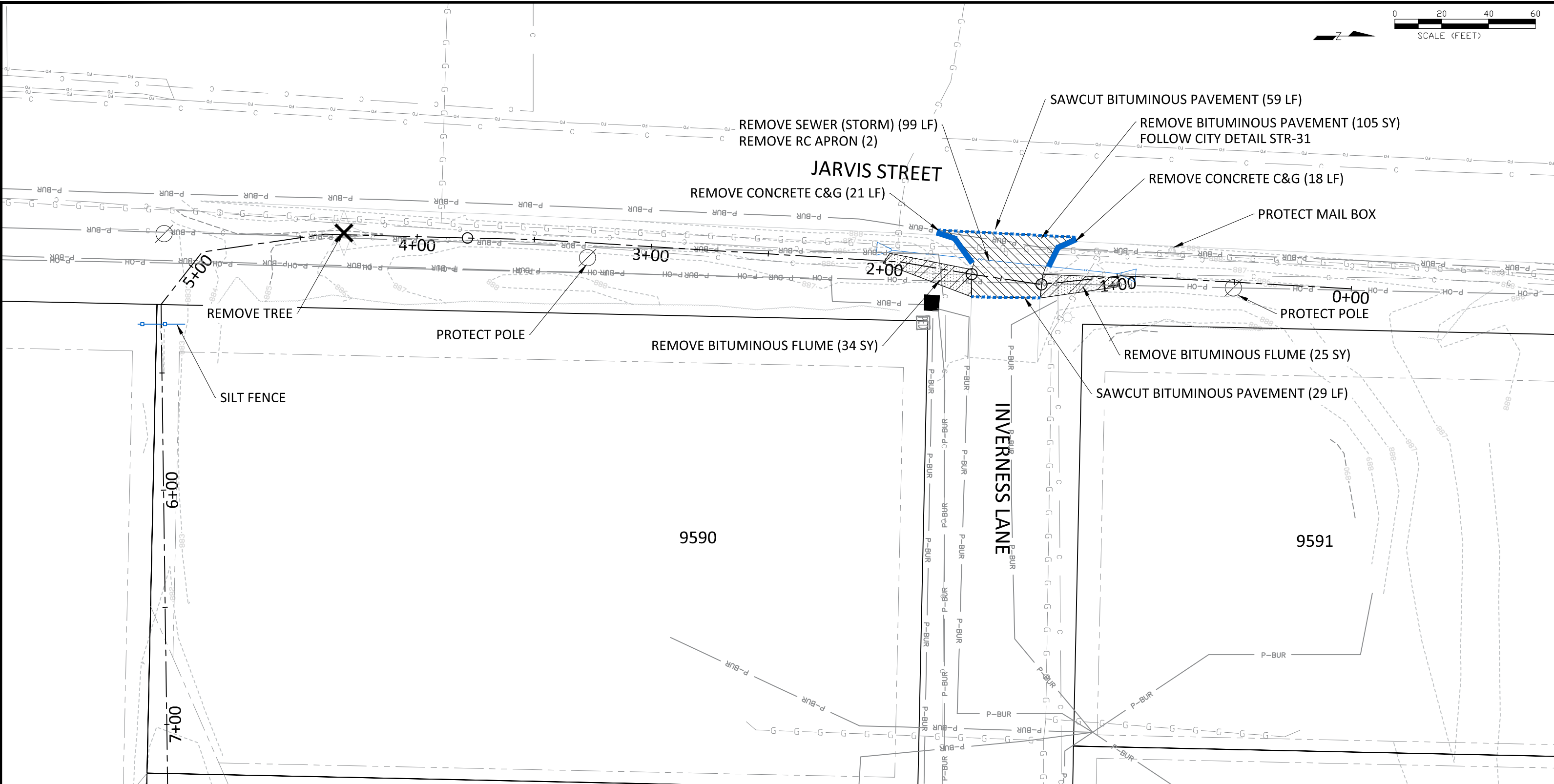
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 CHECKED BY: LLL

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 7550 SUNWOOD DRIVE
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DETAILS

9591 INVERNESS LANE DRAINAGE IMPROVEMENTS
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LEGEND

- | | | | | | |
|-----------|-------------------|---------|---------------------|---|---------------------|
| --- | EX. MAJOR CONTOUR | — G — | GAS LINE | ▨ | EDGE OF PAVEMENT |
| - - - | EX. MINOR CONTOUR | — C — | COMMUNICATIONS LINE | ▨ | REMOVE BIT - STREET |
| - · - · - | D&U EASEMENT | -P BUR- | POWER - BURIED | ▨ | REMOVE BIT - FLUME |
| — | LOT LINE | -P OH- | POWER - OVERHEAD | — | REMOVE STORM SEWER |
| | | -FO- | FIBER OPTIC | — | SAWCUT - FULL DEPTH |

- NOTE:**
- CONTRACTOR IS RESPONSIBLE FOR FIXING ANY DAMAGE TO EXISTING IRRIGATION SYSTEMS AND LANDSCAPING.
 - CONTRACTOR IS RESPONSIBLE FOR PROTECTING UTILITY POLES DURING CONSTRUCTION.

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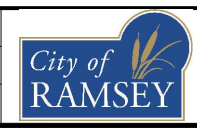
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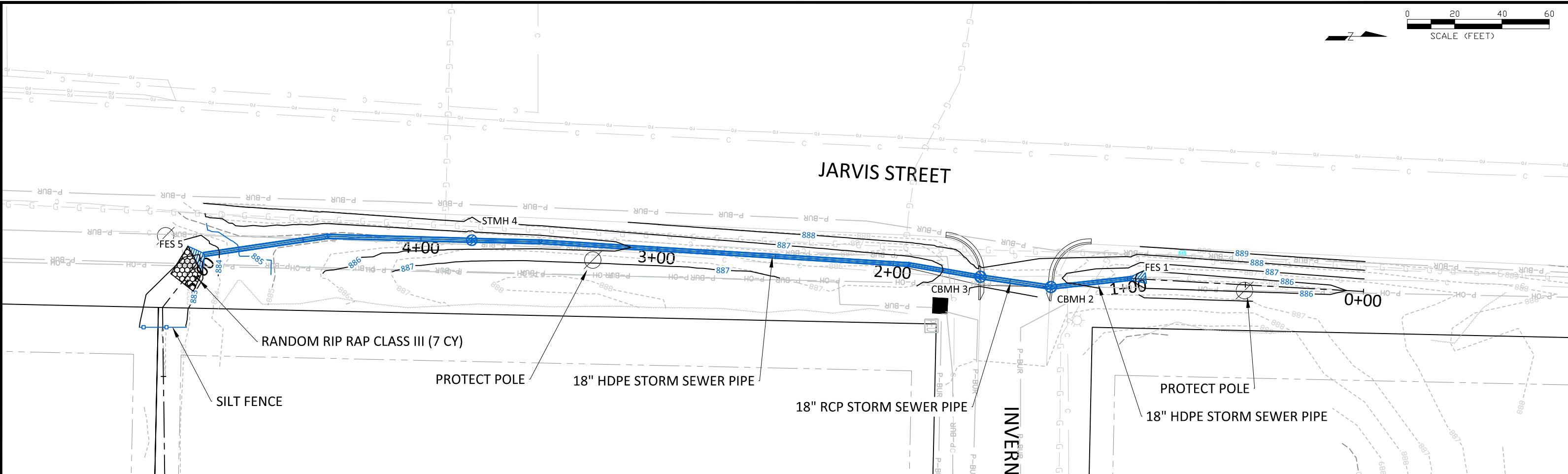
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EXISTING CONDITIONS & REMOVALS

9591 INVERNESS LANE DRAINAGE IMPROVEMENTS
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CITY OF RAMSEY, MINNESOTA



LEGEND

- — — — — EX. MAJOR CONTOUR
- - - - - EX. MINOR CONTOUR
- - - - - D&U EASEMENT
- — — — — LOT LINE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED STORM SEWER
- ○ ○ ○ ○ PROPOSED STORM SEWER STRUCTURES
- □ □ □ □ PROPOSED SILT FENCE
- ◻ ◻ ◻ ◻ ◻ PROPOSED RIP RAP

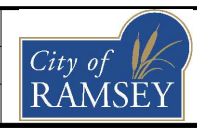
- NOTE:**
1. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. LENGTH OF FLARED END SECTIONS NOT INCLUDED IN PIPE LENGTH.
 2. HDPE STORM SEWER PIPE IS TO FOLLOW THE PROPOSED ALIGNMENT, ALIGNMENT INCLUDES DEFLECTION CBMH 3 TO FES 5.
 3. TRACER WIRE MUST BE INSTALLED WITH ALL STORM SEWER PIPE.

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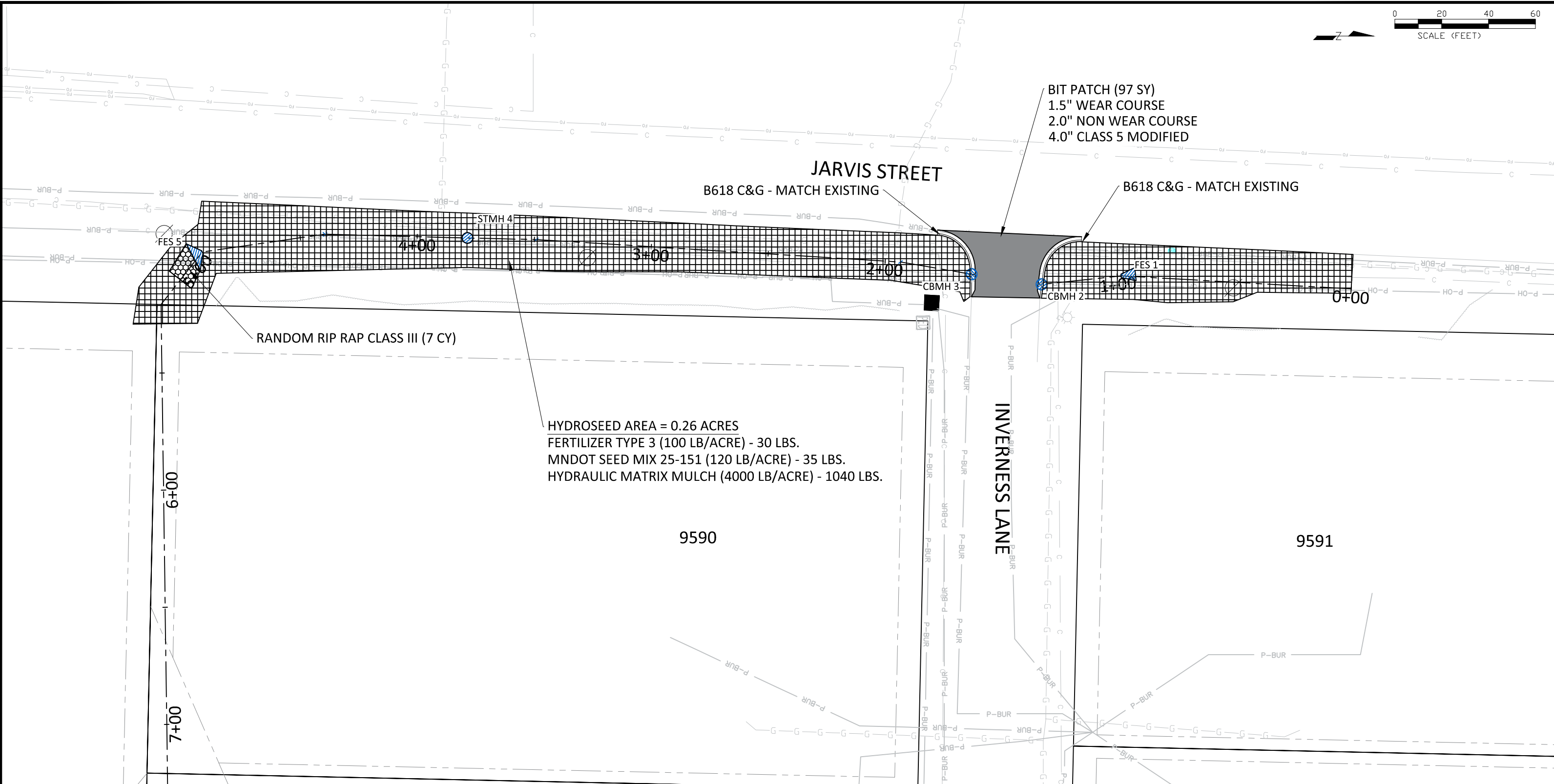
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STORM SEWER & GRADING

9591 INVERNESS LANE DRAINAGE IMPROVEMENTS
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RANDOM RIP RAP CLASS III (7 CY)

HYDROSEED AREA = 0.26 ACRES
 FERTILIZER TYPE 3 (100 LB/ACRE) - 30 LBS.
 MNDOT SEED MIX 25-151 (120 LB/ACRE) - 35 LBS.
 HYDRAULIC MATRIX MULCH (4000 LB/ACRE) - 1040 LBS.

BIT PATCH (97 SY)
 1.5" WEAR COURSE
 2.0" NON WEAR COURSE
 4.0" CLASS 5 MODIFIED

LEGEND

- | | | | |
|---------|-------------------|-----|--|
| --- | EX. MAJOR CONTOUR | --- | PROPOSED MAJOR CONTOUR |
| - - - | EX. MINOR CONTOUR | --- | PROPOSED MINOR CONTOUR |
| - - - - | D&U EASEMENT | ■ | BITUMINOUS PAVEMENT - STREET |
| --- | LOT LINE | ▨ | RESTORATION AREA (4" TOPSOIL, HYDROSEED) |
| | | ▩ | RANDOM RIP RAP CLASS III |

NOTE:

1. RESTORE DISTURBED AREAS WITH 4" TOPSOIL AND HYDROSEED.
2. ESTIMATED 220 CY OF EXCAVATION REQUIRED. ON-SITE TOPSOIL MAY BE SALVAGED. ESTIMATED 180 CY OF TOPSOIL REQUIRED BASED ON DISTURBED AREA OF 1242 SY AND COMPACTION FACTOR OF 1.3.
3. INVERNESS LANE BOC RADII IS 15'.
4. CONTRACTOR IS RESPONSIBLE FOR FIXING ANY DAMAGE TO EXISTING IRRIGATION SYSTEMS.
5. CONTRACTOR IS RESPONSIBLE FOR FIXING ANY DAMAGE TO EXISTING LANDSCAPING.

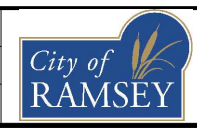
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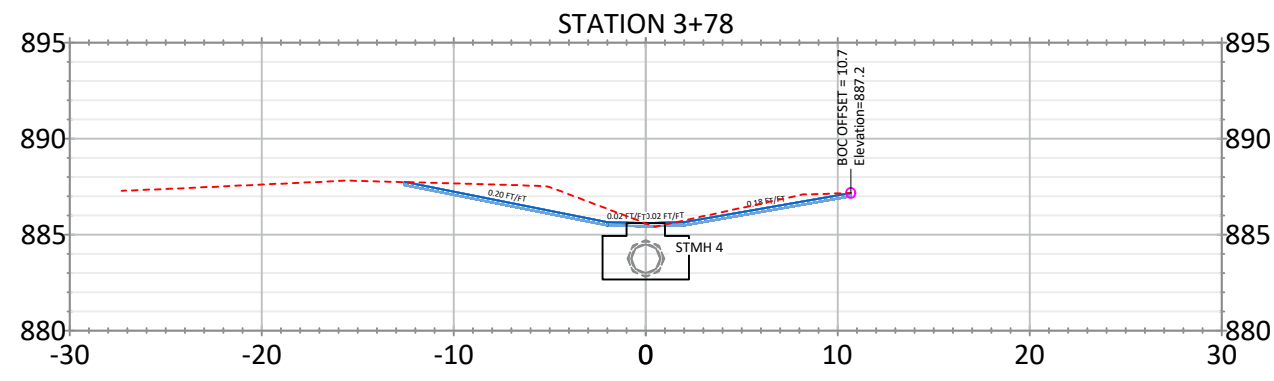
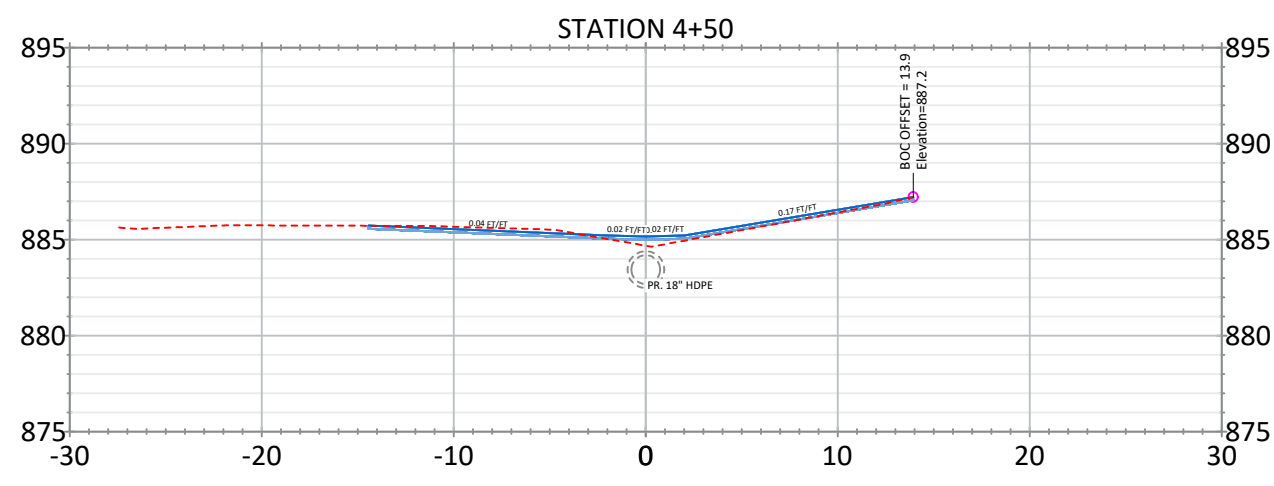
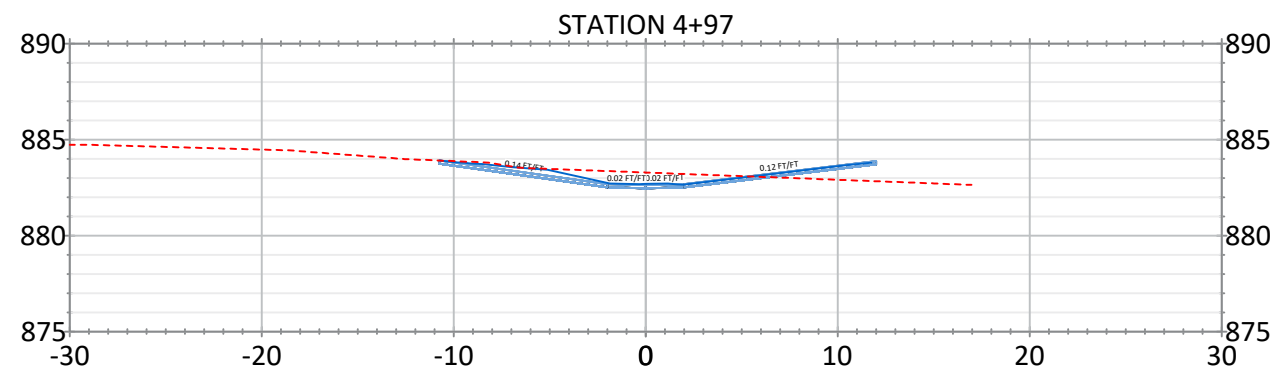
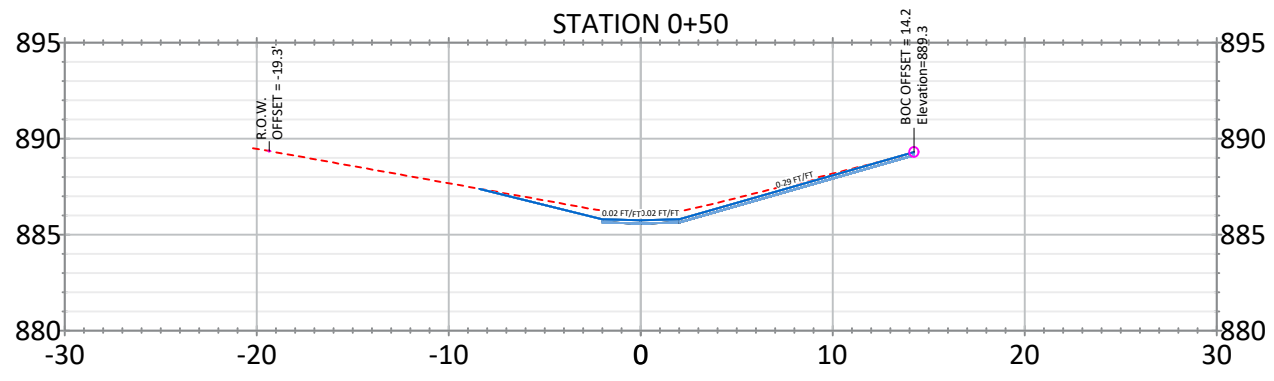
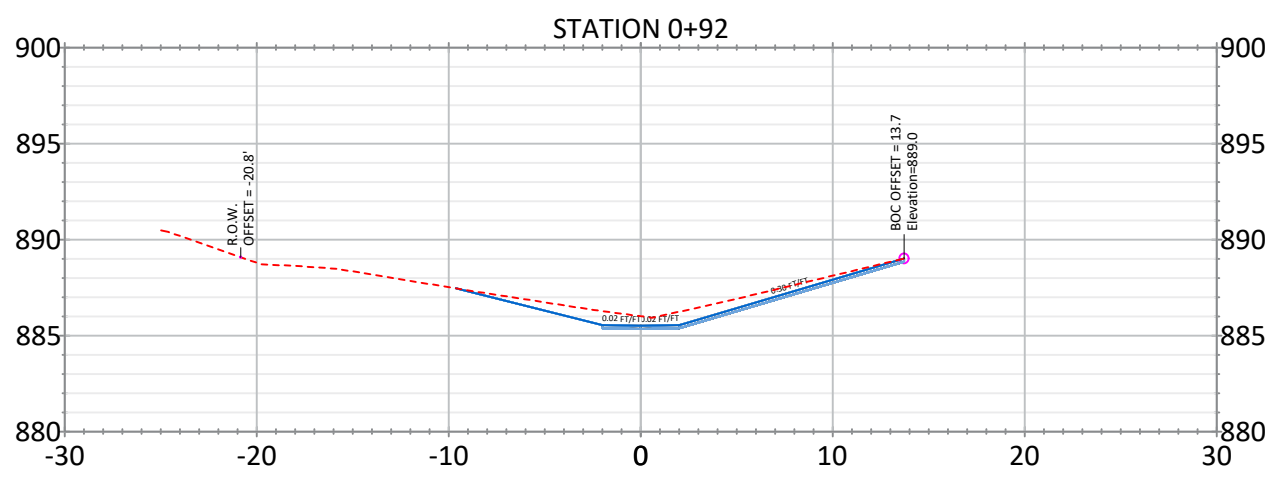
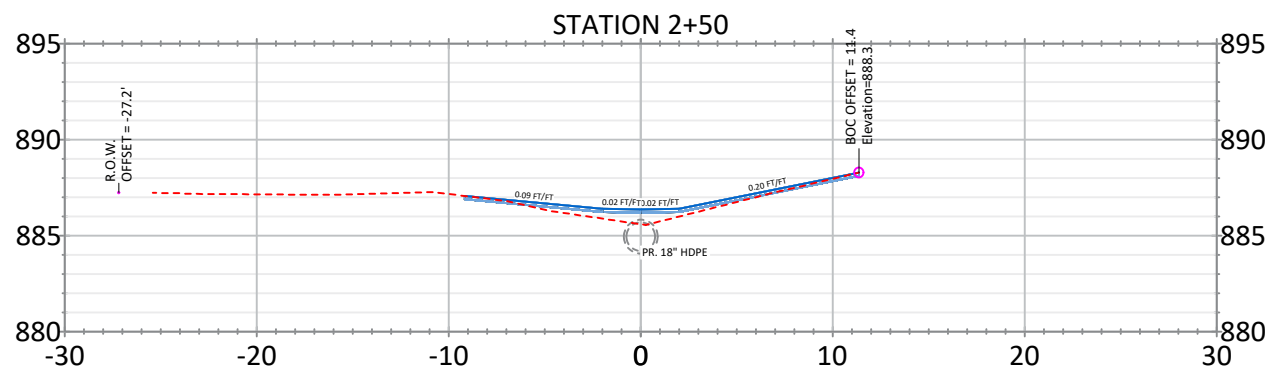
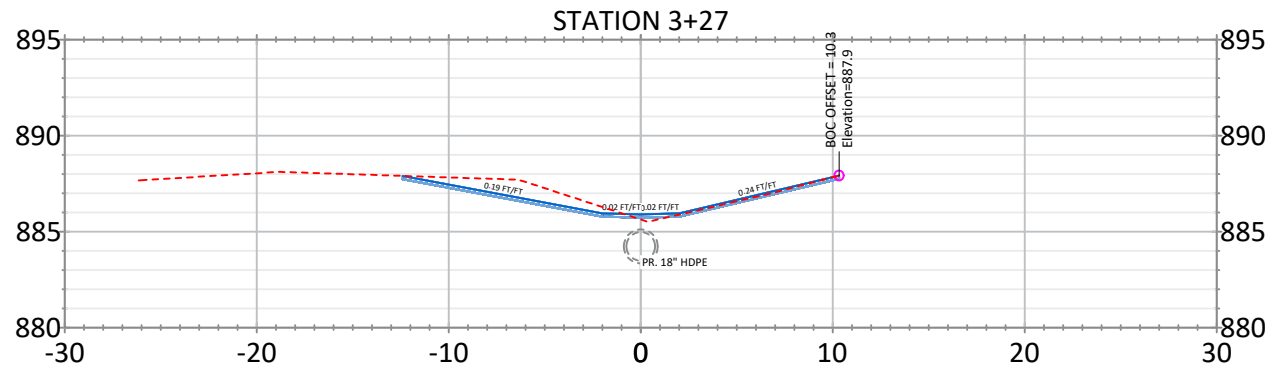
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RESTORATION

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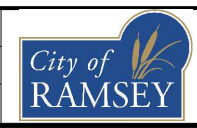
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CROSS SECTIONS

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