

CITY OF RAMSEY

BUSINESS PARK 95 STREET RECONSTRUCTIONS

CITY IMPROVEMENT PROJECT NO. 21-03

GOVERNING SPECIFICATIONS

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

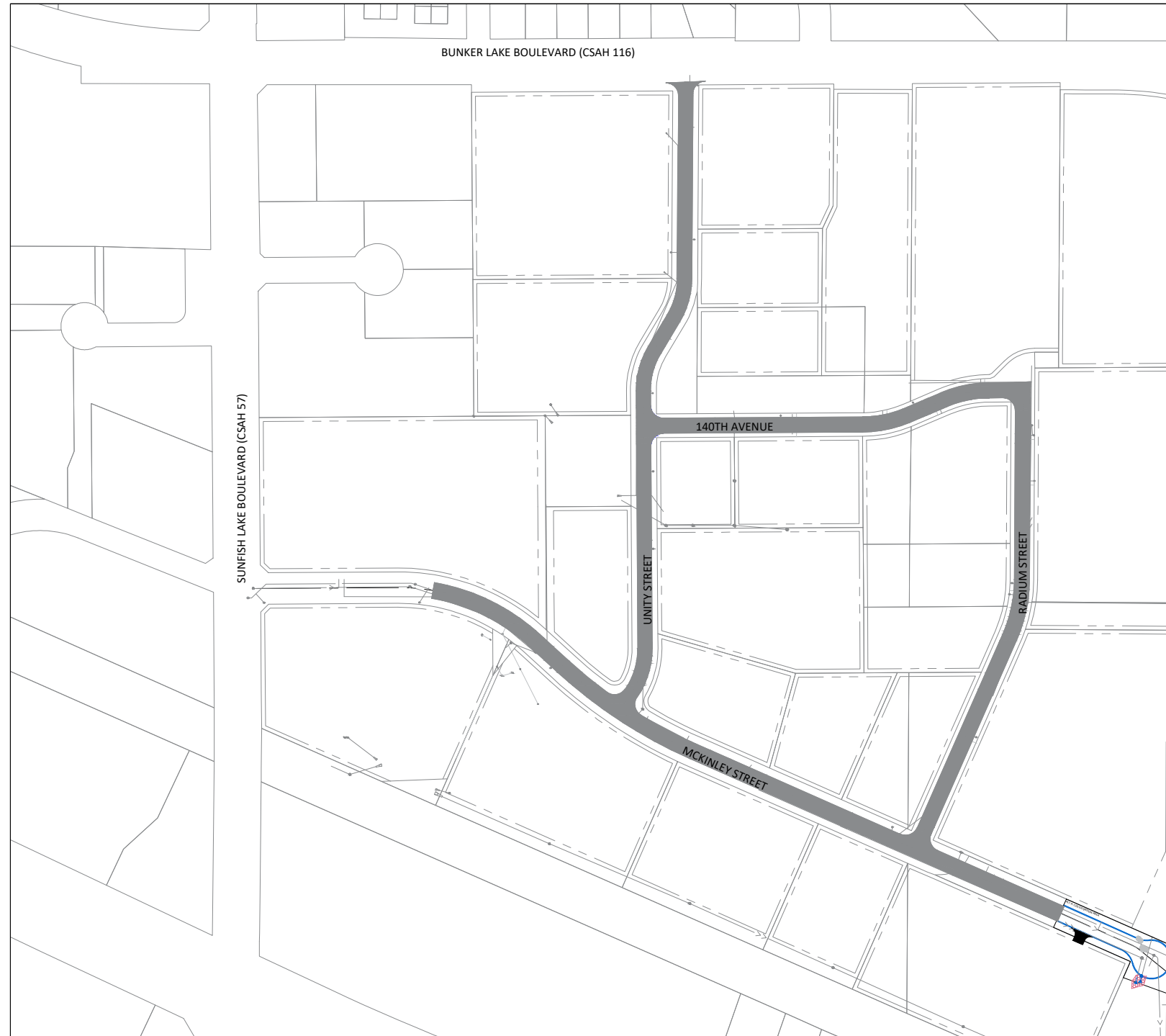
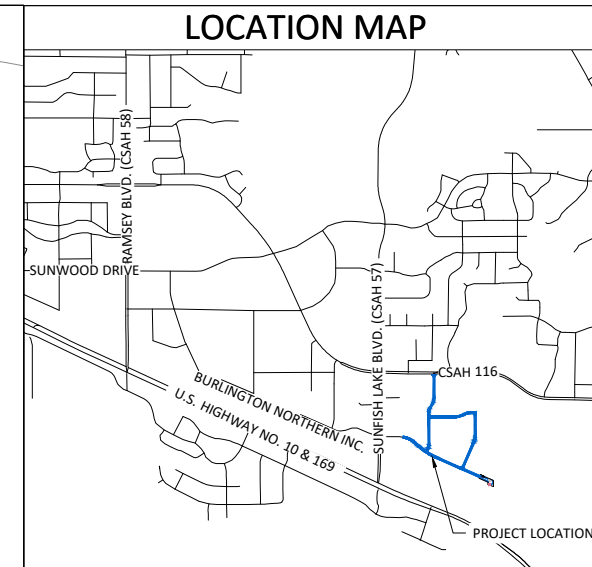
ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

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 26 SHEETS

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03	ALT A - CDS ALIGNMENT LAYOUT
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05	DETAILS
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08	EROSION CONTROL
09	EROSION CONTROL - ALT A MCKINLEY STREET CDS EXTENSION
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26	ALT A MCKINLEY CDS - CROSS SECTIONS



LEGEND

	LIGHT POLE		EASEMENT
	TREE		RIGHT OF WAY
	SHRUB		ELECTRIC
	SIGN		OVERHEAD UTILITY
	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
	GRAVEL SURFACE		RETAINING WALL
	CONCRETE PAVEMENT		5' CONTOUR LINE
	BITUMINOUS PAVEMENT		1' CONTOUR LINE
	RIP RAP		SILT FENCE
	SODDING TYPE LAWN		
	NEW BITUMINOUS PAVEMENT		
	RECLAIM BITUMINOUS PAVEMENT		
	MILL BITUMINOUS PAVEMENT		

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.


 JOE FERIANCEK, P.E. 57095 DATE 3/9/21
 CIVIL ENGINEER II LIC. NO.

DATE	REVISION

SHEET 01 OF 26 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

IP 21-03 Business Park 95 Street Reconstructions					
Statement of Estimated Quantities					
Base Street Construction					
Item No.	MnDOT No.	Note	Item Description	Unit	Quantity
1	2021.501		Mobilization	LS	1
2	2104.502		Remove Pipe Apron	EA	1
3	2104.502	6	Salvage & Install Mail Box Support	EA	10
4	2104.503	1	Remove Concrete Curb and Gutter	LF	4090
5	2104.503	1	Remove Sewer Pipe (Storm)	LF	681
6	2104.503	1	Sawing Bituminous Pavement (Full Depth)	LF	1195
7	2104.503	1	Sawing Concrete Pavement (Full Depth)	LF	726
8	2104.504	1	Remove Bituminous Pavement	SY	1011
9	2104.504	1	Remove Concrete Pavement	SY	148
10	2104.504	1	Remove Concrete Valley Gutter	SY	29
11	2104.504	1	Remove Gravel Surface	SY	47
12	2105.504		Geotextile Fabric Type 4	SY	42
13	2105.507	2, 12	Common Excavation (EV)	CY	76
14	2105.607	2	Haul & Stockpile Reclaim Material (LV)	CY	3344
15	2112.519	9	Subgrade Preparation	RDST	56
16	2211.507	2, 11	Aggregate Base Class 5 Modified (CV)	CY	363
17	2215.504	9, 11	Full Depth Reclamation (10.0")	SY	24076
18	2232.504	1	Mill Bituminous Surface (2.0")	SY	213
19	2357.506	4	Bituminous Material for Tack Coat	GAL	1703
20	2360.509	5	Type SP 12.5 Non Wearing Course Mixture (3,C) 2.0"	TON	2675
21	2360.509	5	Type SP 12.5 Non Wearing Course Mixture (3,C) Driveways 2.0"	TON	88
22	2360.509	5	Type SP 9.5 Wearing Course Mixture (3,C) 2.0"	TON	2675
23	2360.509	5	Type SP 9.5 Wearing Course Mixture (3,C) Driveways 2.0"	TON	88
24	2501.502		30" RC Pipe Apron	EA	1
25	2501.602		Safety Grate for 30" RC Pipe Apron	EA	1
26	2503.503	10	12" RC Pipe Sewer Design 3006 Class III	LF	170
27	2503.503	10	15" RC Pipe Sewer Design 3006 Class III	LF	105
28	2503.503	10	18" HDPE Pipe Sewer	LF	23
29	2503.503	10	18" RC Pipe Sewer Design 3006 Class III	LF	179
30	2503.503	10	30" HDPE Pipe Sewer	LF	30
31	2503.503	10	30" RC Pipe Sewer Design 3006 Class III	LF	204
32	2503.602	10	Connect to Existing Storm Sewer	EA	19
33	2503.602		Grout Catch Basin	EA	3
34	2503.602		Reset Catch Basin	EA	21
35	2504.602		Adjust Valve Box	EA	27
36	2506.502		Adjust Frame and Ring Casting	EA	21
37	2511.507		Randon Rip Rap Class III	CY	12
38	2531.503	8	Concrete Curb & Gutter Design B618	LF	4090
39	2531.504	8	Concrete Pavement 6.0" Driveways	SY	148
40	2531.604	8	7" Concrete Valley Gutter	SY	62
41	2531.604	8	8" Concrete Valley Gutter Driveways	SY	736
42	2540.601		Landscape Restoration	LS	1
43	2540.602		Temporary Mail Box Cluster	EA	1
44	2563.601	7	Traffic Control	LS	1
45	2573.502		Storm Drain Inlet Protection	EA	26
46	2573.503		Silt Fence	LF	32
47	2574.507	3	Topsoil (LV)	CY	100
48	2575.504		Sodding Type Lawn	SY	688

IP 21-03 Business Park 95 Street Reconstructions					
Statement of Estimated Quantities					
Alternative A: Cul-de-Sac Extension					
Item No.	MnDOT No.	Note	Item Description	Unit	Quantity
1	2101.501		Clearing and Grubbing	LS	1
2	2104.502		Remove Pipe Apron	EA	3
3	2104.503	1	Remove Sewer Pipe (Storm)	LF	158
4	2104.503	1	Sawing Bituminous Pavement (Full Depth)	LF	29
5	2104.504	1	Remove Bituminous Pavement	SY	78
6	2104.504	1	Remove Gravel Surface	SY	475
7	2104.507	1	Remove Rip Rap	CY	40
8	2105.504		Geotextile Fabric Type 4	SY	120
9	2105.507	2, 12	Common Excavation (EV)	CY	700
10	2106.507	2	Granular Embankment (CV)	CY	185
11	2106.507	2	Select Granular Embankment (CV)	CY	852
12	2112.519	9	Subgrade Preparation	RDST	3
13	2211.507	2, 11	Aggregate Base Class 5 Modified (Use Reclaim)	CY	437
14	2357.506	4	Bituminous Material for Tack Coat	GAL	131
15	2360.509	5	Type SP 12.5 Non Wearing Course Mixture (3,C) 2.0"	TON	196
16	2360.509	5	Type SP 12.5 Non Wearing Course Mixture (3,C) Driveways 2.0"	TON	9
17	2360.509	5	Type SP 9.5 Wearing Course Mixture (3,C) 2.0"	TON	196
18	2360.509	5	Type SP 9.5 Wearing Course Mixture (3,C) Driveways 2.0"	TON	9
19	2501.502		30" RC Pipe Apron	EA	1
20	2501.502		42" RC Pipe Apron	EA	2
21	2501.602		Safety Grate for 42" RC Pipe Apron	EA	2
22	2501.602		Safety Grate for 30" RC Pipe Apron	EA	1
23	2503.503	10	30" RC Pipe Sewer Design 3006 Class III	LF	57
24	2503.503	10	42" RC Pipe Sewer Design 3006 Class III	LF	119
25	2503.602	10	Connect to Existing Storm Sewer	EA	1
26	2504.604		4" Polystyrene Insulation	SY	4
27	2506.502		Adjust Frame and Ring Casting	EA	2
28	2506.502		Casting Assembly (Storm)	EA	1
29	2506.502	10	Construct Drainage Structure Design 60-4020	EA	1
30	2511.507		Randon Rip Rap Class III	CY	33
31	2531.503	8	Concrete Curb & Gutter Design B618	LF	633
32	2531.604	8	8" Concrete Valley Gutter Driveways	SY	17
33	2573.502		Storm Drain Inlet Protection	EA	1
34	2573.503		Silt Fence	LF	600
35	2574.507	3	Topsoil (LV)	CY	105
36	2575.504		Sodding Type Lawn	SY	714

PAY ITEM NOTES:

- REMOVAL LIMITS SHALL BE MARKED IN THE FIELD BY CITY STAFF.
- LV TO CV CONVERSION FACTOR = 1.25.
- LV TO CV CONVERSION FACTOR = 1.30.
- ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 0.07 GAL/SY.
- ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 110 LB/SY-IN.
- PAY ITEM INCLUDES ALL EXISTING MAILBOX SUPPORTS, REGARDLESS OF MATERIAL(S), SIZE, FOOTING TYPE, LOCATION, OR EXISTING ELECTRICAL SERVICE. MAILBOX ARE TO BE SALVAGED ON AN AS NEEDED BASIS, TO BE DETERMINED BY CITY STAFF IN THE FIELD.
- LUMP SUM QUANTITY SHALL INCLUDE ALL COST REQUIRED FOR MAINTAINING ALL FLAGGING OPERATIONS AS NECESSARY, MAINTAINING PEDESTRIAN ACCESS ROUTES, ANY SIGNAGE AND BARRICADES AS NECESSARY.
- FINISH WITH CLEAR CURING COMPOUND.
- EXCESS RECLAMATION MATERIAL SHALL BE HAULED FROM THE ONSITE STOCKPILE LOCATION TO THE CITY OF RAMSEY PUBLIC WORKS CAMPUS, 14100 JASPER STREET. THE EXPECTED RECLAMATION DEPTH IS 10 INCHES. THE TOP 4 INCHES ARE PROPOSED TO BE REMOVED. SHAPING AND COMPACTION OF RECLAMATION MATERIAL INCIDENTAL TO THE SUBGRADE PREPARATION PAY ITEM.
- THE EXCAVATION REQUIRED FOR UTILITY INSTALLATION IS INCIDENTAL TO THE UTILITY PAY ITEM.
- EXCESS RECLAMATION MATERIAL MAY BE USED AS AGGREGATE BASE FOR ALT A CUL-DE-SAC EXTENSION, MUST PASS RAMSEY MODIFIED GRADATION. EXCESS RECLAMATION MATERIAL MAY BE USED AS FILL BELOW THE PAVEMENT SECTION FOR THE ALT A: CUL-DE-SAC EXTENSION. HAULING OF RECLAMATION MATERIAL USED AS AGGREGATE BASE IS INCIDENTAL.
- STRIPING OF TOPSOIL INCLUDED IN COMMON EXCAVATION BID ITEM.

GENERAL NOTES:

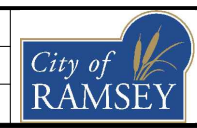
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. IT IS NOT GUARANTEED ANY OR ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- 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 AVOIDING DAMAGE TO IRRIGATION SYSTEMS WHERE POSSIBLE.
- SALVAGE AND INSTALL MAILBOX SUPPORTS IN THE SAME LOCATION, UNLESS OTHERWISE DIRECTED. THE INSTALLATION WILL BE THE SAME TYPE AS ORIGINAL INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING MAILBOX SUPPORTS WHICH ARE DAMAGED DURING SALVAGE AND/OR INSTALLATION UNLESS CONTRACTOR NOTIFIES CITY OF DAMAGED MAILBOX SUPPORTS BEFORE SALVAGE OPERATIONS BEGIN. SALVAGED MAILBOX SUPPORTS SHALL BE STORED BY CONTRACTOR DURING PROJECT.
- PERMANENT SIGN REMOVAL AND INSTALLATION IS TO BE PERFORMED BY CITY OF RAMSEY PUBLIC WORKS DEPARTMENT.
- ACCESS TO ALL PROPERTIES MUST BE MAINTAINED AT ALL TIMES. DRIVEWAY REMOVAL AND REPLACEMENTS MUST BE PERFORMED IN SUCH A WAY TO MAINTAIN TRAFFIC TO PROPERTIES.

DATE	REVISION

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

Joe Feriancek
JOE FERIANCEK, P.E.
 Date 3/9/21 Lic. No. 57095

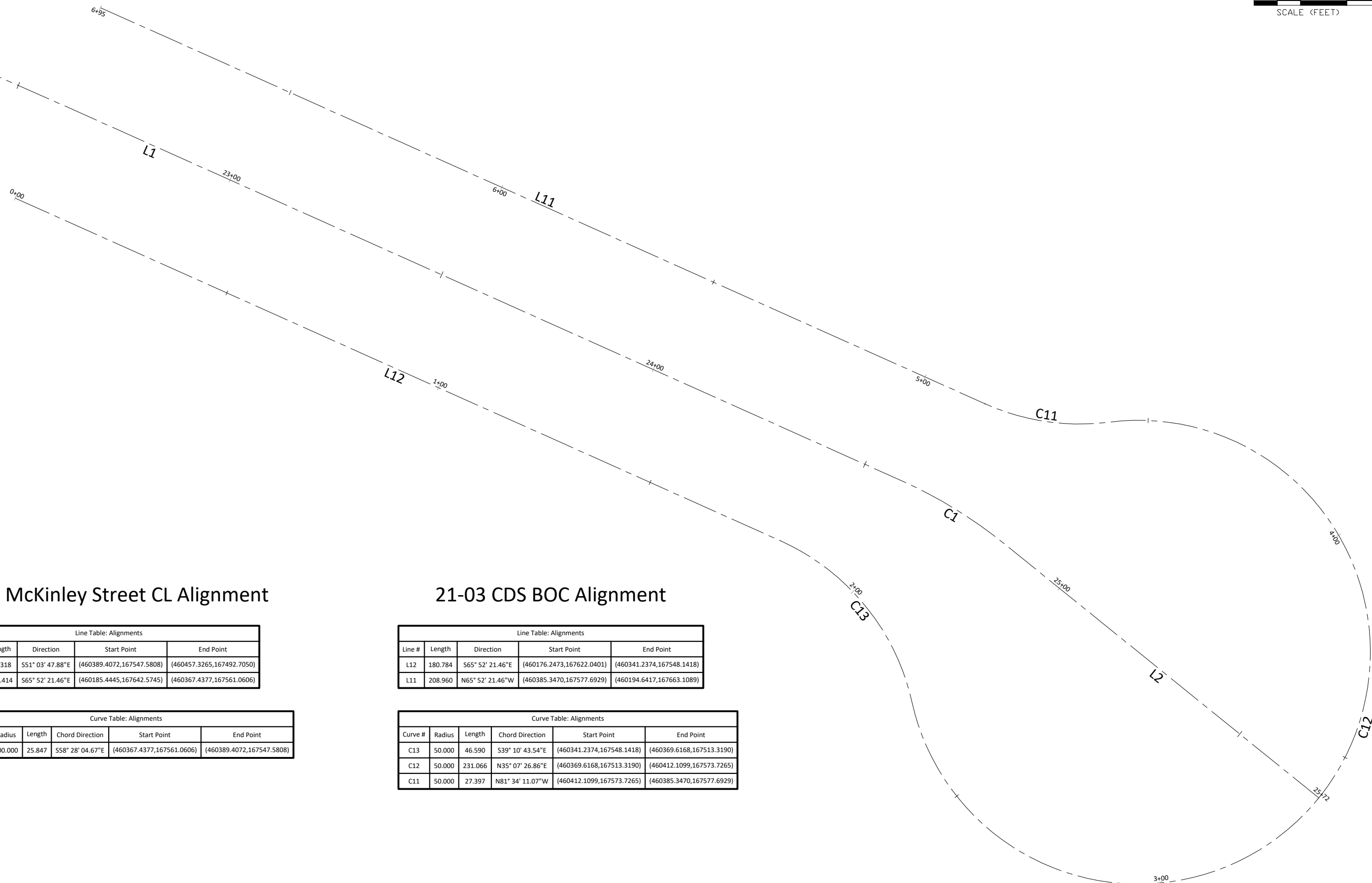
DESIGNED BY:	JJF	DATE:	3/9/21
DRAWN BY:	JJF	FILE:	21-03
CHECKED BY:	BRW		



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SEQ & NOTES

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
 CITY OF RAMSEY, MINNESOTA



21-03 McKinley Street CL Alignment

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L2	87.318	S51° 03' 47.88"E	(460389.4072,167547.5808)	(460457.3265,167492.7050)
L1	199.414	S65° 52' 21.46"E	(460185.4445,167642.5745)	(460367.4377,167561.0606)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C1	100.000	25.847	S58° 28' 04.67"E	(460367.4377,167561.0606)	(460389.4072,167547.5808)

21-03 CDS BOC Alignment

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L2	180.784	S65° 52' 21.46"E	(460176.2473,167622.0401)	(460341.2374,167548.1418)
L11	208.960	N65° 52' 21.46"W	(460385.3470,167577.6929)	(460194.6417,167663.1089)

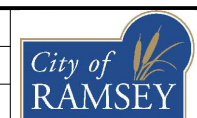
Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C13	50.000	46.590	S39° 10' 43.54"E	(460341.2374,167548.1418)	(460369.6168,167513.3190)
C12	50.000	231.066	N35° 07' 26.86"E	(460369.6168,167513.3190)	(460412.1099,167573.7265)
C11	50.000	27.397	N81° 34' 11.07"W	(460412.1099,167573.7265)	(460385.3470,167577.6929)

DATE	REVISION

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Joe Feriancek
JOE FERIANCEK, P.E.
 Date 3/9/21 Lic. No. 57095

DESIGNED BY:	JJF
DRAWN BY:	JJF
CHECKED BY:	BRW

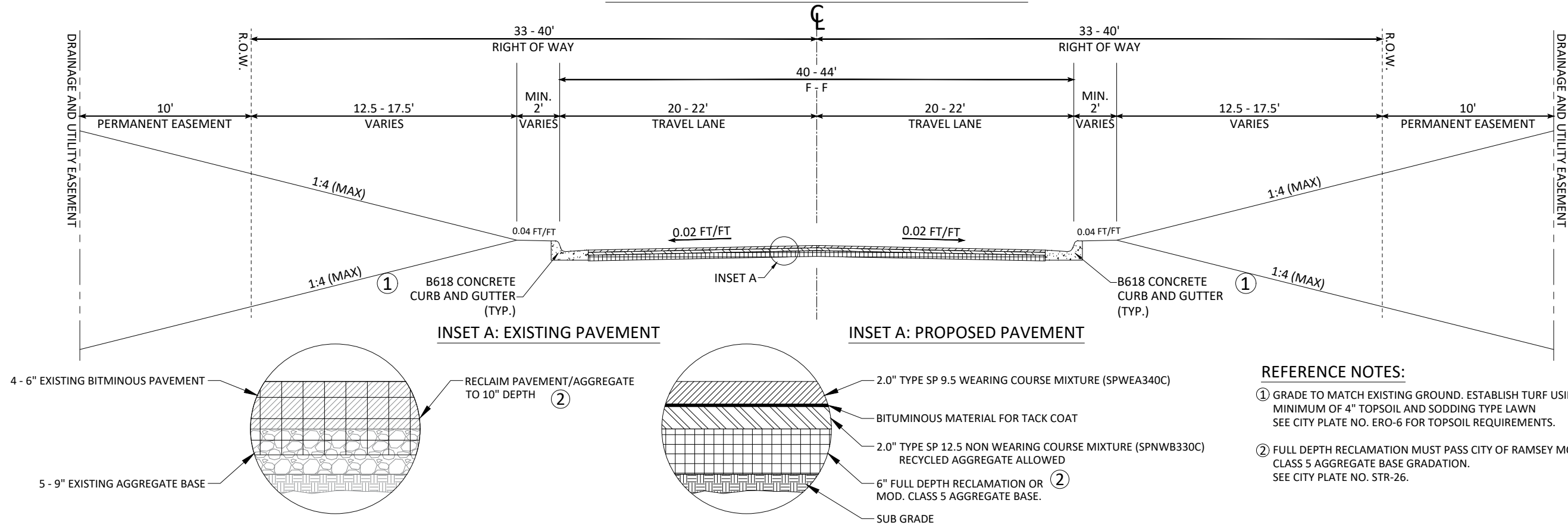


CITY OF RAMSEY
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ALT A - CDS ALIGNMENT LAYOUT

BUSINESS PARK 95 STREET RECONSTRUCTIONS
 CITY PROJECT NO. 21-03
 CITY OF RAMSEY, MINNESOTA

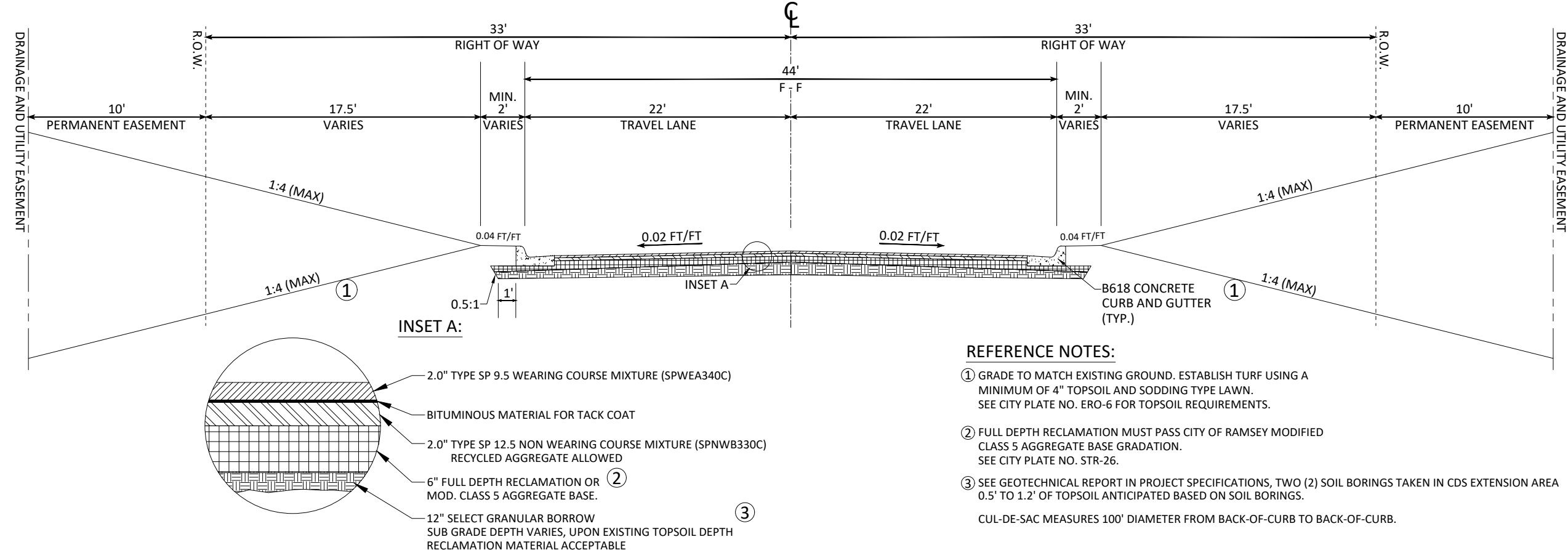
TYPICAL SECTION: FULL-DEPTH RECLAMATION



REFERENCE NOTES:

- ① GRADE TO MATCH EXISTING GROUND. ESTABLISH TURF USING A MINIMUM OF 4" TOPSOIL AND SODDING TYPE LAWN SEE CITY PLATE NO. ERO-6 FOR TOPSOIL REQUIREMENTS.
- ② FULL DEPTH RECLAMATION MUST PASS CITY OF RAMSEY MODIFIED CLASS 5 AGGREGATE BASE GRADATION. SEE CITY PLATE NO. STR-26.

TYPICAL SECTION: (ALT A) MCKINLEY STREET CDS EXTENSION



REFERENCE NOTES:

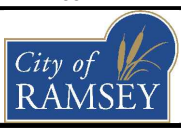
- ① GRADE TO MATCH EXISTING GROUND. ESTABLISH TURF USING A MINIMUM OF 4" TOPSOIL AND SODDING TYPE LAWN. SEE CITY PLATE NO. ERO-6 FOR TOPSOIL REQUIREMENTS.
- ② FULL DEPTH RECLAMATION MUST PASS CITY OF RAMSEY MODIFIED CLASS 5 AGGREGATE BASE GRADATION. SEE CITY PLATE NO. STR-26.
- ③ SEE GEOTECHNICAL REPORT IN PROJECT SPECIFICATIONS, TWO (2) SOIL BORINGS TAKEN IN CDS EXTENSION AREA 0.5' TO 1.2' OF TOPSOIL ANTICIPATED BASED ON SOIL BORINGS. CUL-DE-SAC MEASURES 100' DIAMETER FROM BACK-OF-CURB TO BACK-OF-CURB.

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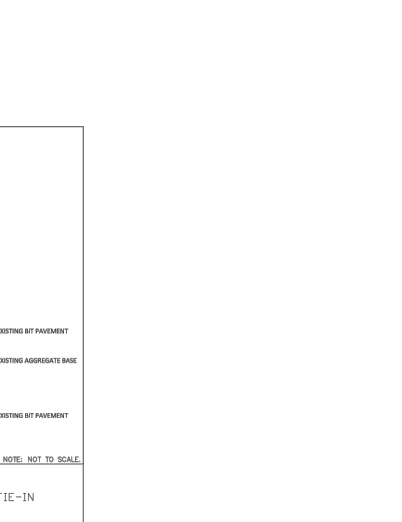
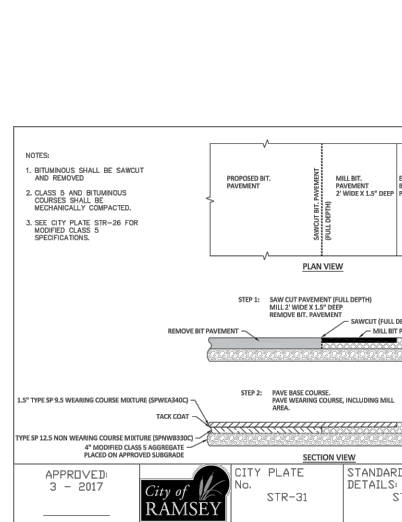
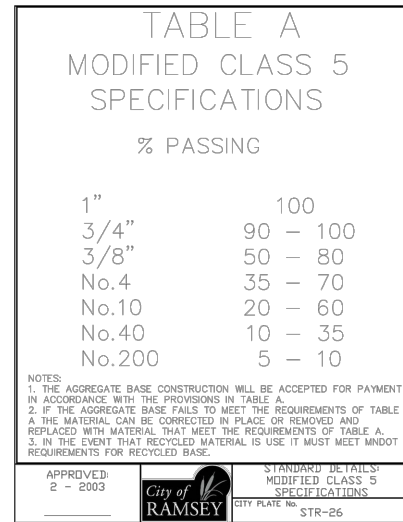
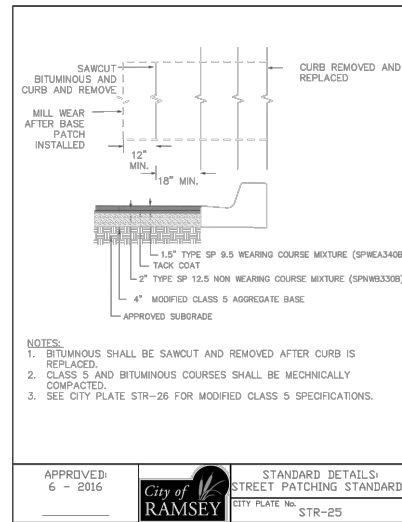
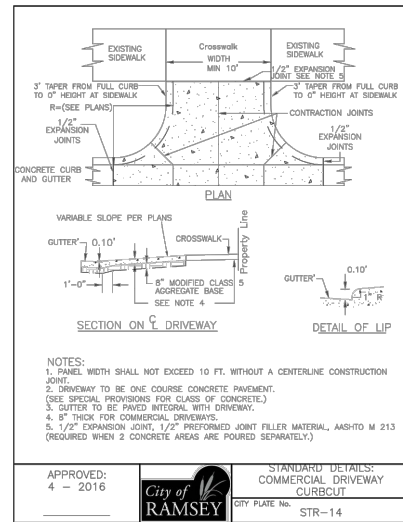
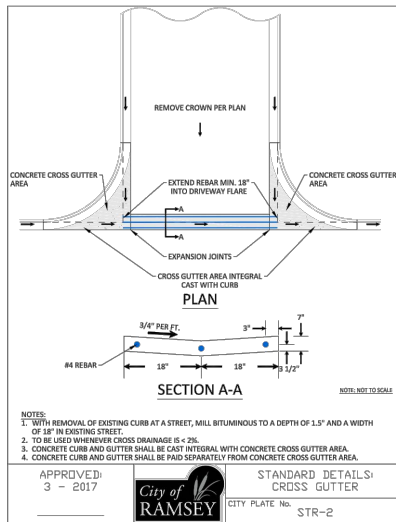
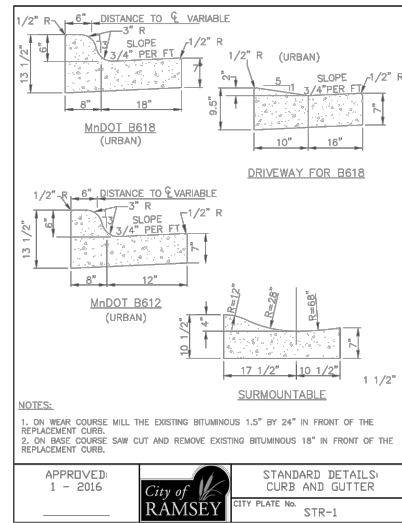
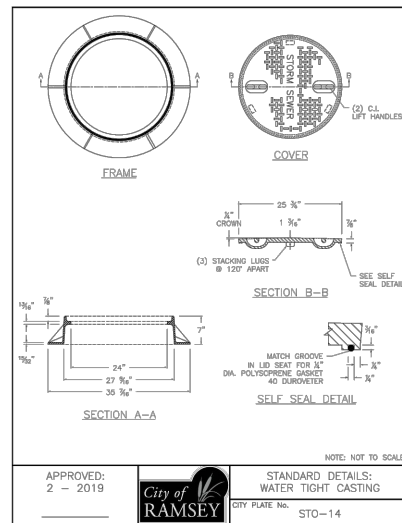
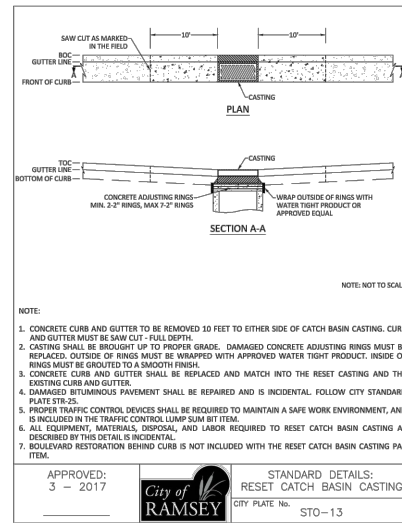
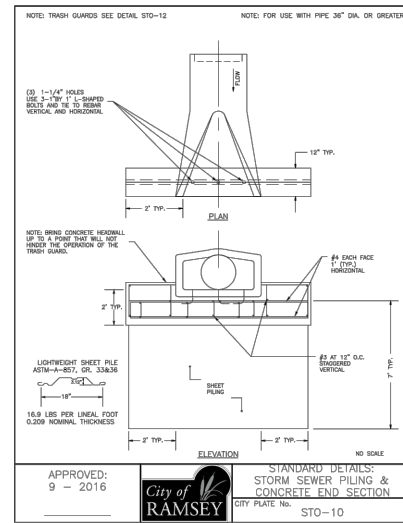
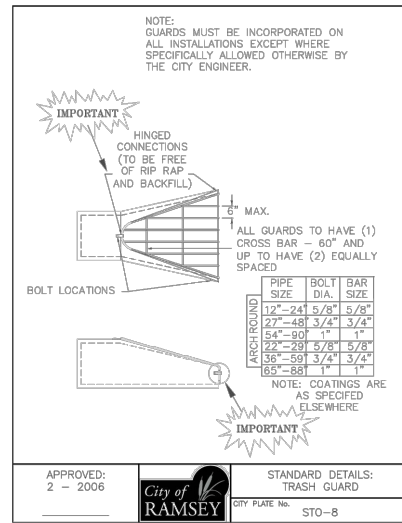
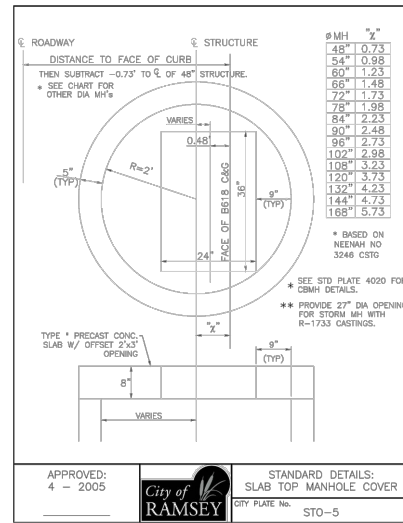
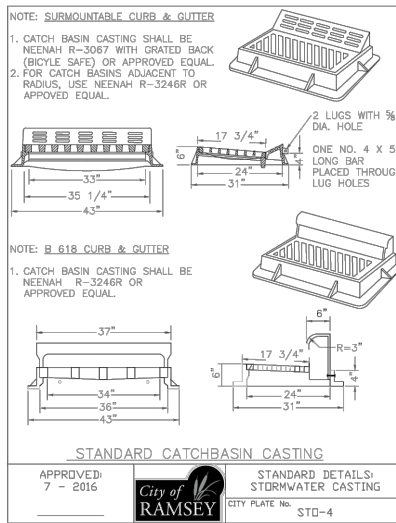
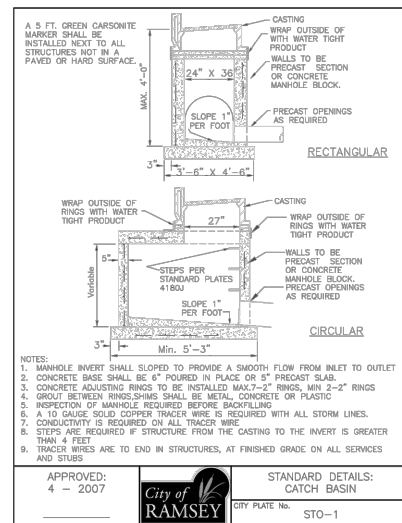
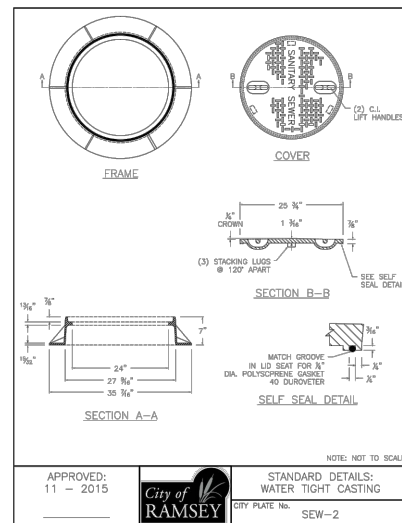
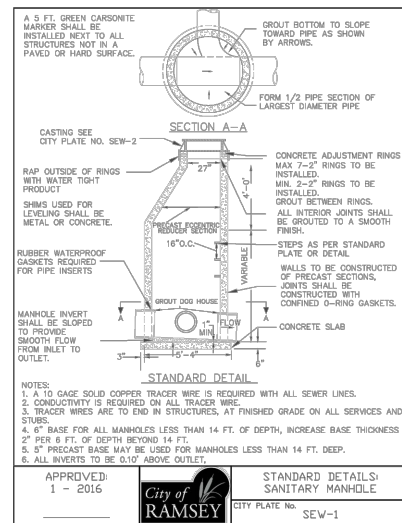
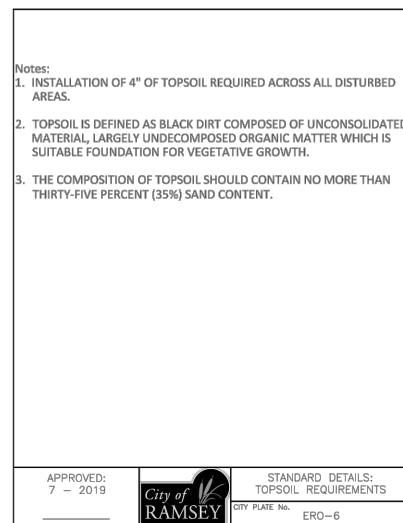
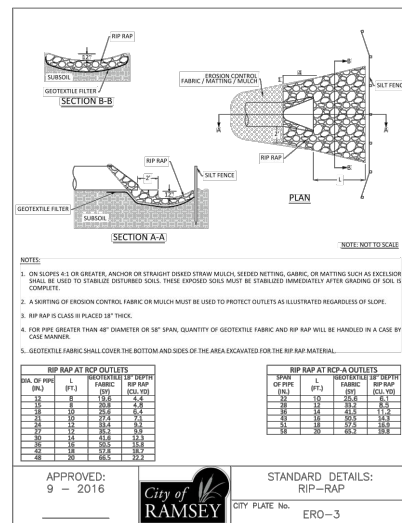
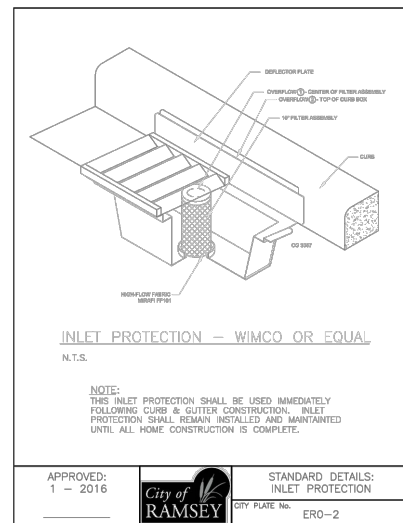
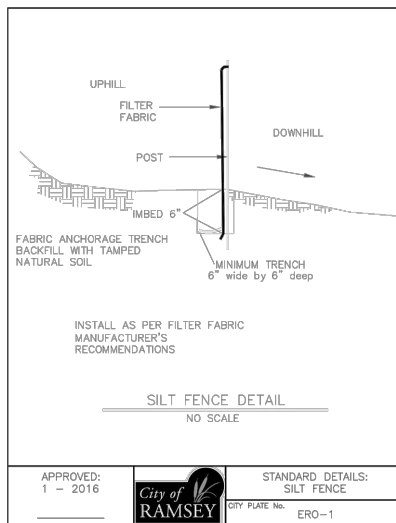
DESIGNED BY: J J F
 DATE: 3/9/21
 DRAWN BY: J J F
 FILE: 21-03
 CHECKED BY: BRW



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
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TYPICAL SECTIONS

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DRAWN BY: JJF
CHECKED BY: BRW

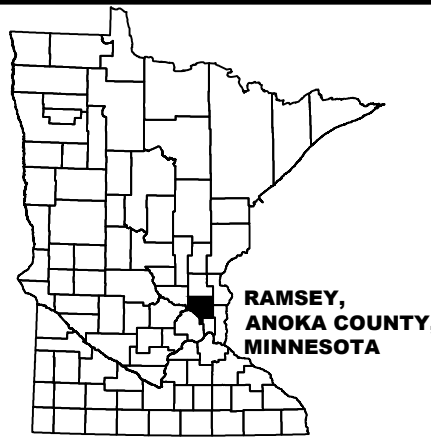
DATE: 3/9/21
FILE: 21-03

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

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

BUSINESS PARK 95 STREET RECONSTRUCTIONS

CITY OF RAMSEY ANOKA COUNTY, MINNESOTA



DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:

Construction activities include; Site Grading, Storm Sewer Construction, Temporary Erosion and Sediment Control, Roadway Construction, and Permanent Stabilization.

Project Description:

This project consists of reconstruction of 1.20 miles of existing bituminous streets, using full-depth reclamation, replacing bituminous street to the existing grade, spot concrete curb and gutter replacement, and extending McKinley Street 250 lineal feet with concrete curb and gutter and bituminous pavement. The drainage for the existing streets uses concrete curb and gutter to direct flow into storm water catch basins located at low points. Storm water pipes collect the runoff to 3 regional ponds. Minor improvements will be made to existing storm water catch basins, including re-setting structures which have settled. There is no change to the outfall location of the storm water runoff.

RESPONSIBLE PARTIES:

The Contractor and Owner must apply for coverage under the MPCA's General Storm Water Permit for Construction Activity as required by the National Pollution Discharge Elimination System (NPDES) Phase II program. Coverage under the permit will begin automatically 7 calendar days after the electronic submittal date or after the postmarked date of a complete application. (Longer time frames will apply to areas disturbing 50 acres or discharge within 1 mile of a special water).

	COMPANY	CONTACT PERSON	PHONE
OWNER:	CITY OF RAMSEY	BRUCE WESTBY, PE	763-433-9825
SWPPP DESIGNER:	CITY OF RAMSEY	JOE FERIANECK, PE	763-433-9893
CONTRACTOR:			
STIE MANAGER:			
PARTY RESPONSIBLE FOR LONG TERM O&M:	CITY OF RAMSEY	BRUCE WESTBY, PE	763-433-9825

Individuals listed above, including the SWPPP preparer, individual overseeing implementation of, revising and amending the SWPPP, Individuals performing or supervising the installation, maintenance and repair of BMP's must be trained. At least one individual present on the permitted project, or available within 72 hours shall be trained in the applicable job duties. Documentation showing training commensurate with the job duties and responsibilities is required to be included in the SWPPP prior to any work beginning on the site. Copies of the SWPPP preparer information is included in the Project Manual. The Contractor shall provide information for the individual(s) overseeing implementation, supervising installation, maintenance, and repair of BMP's to be included in the Project Manual prior to the start of construction. This information shall be kept up to date until the project NOT is filed.

Documentation shall include:

- Names of trained personnel associated with this project.
- Dates of training, names of instructor(s) and entity providing training.
- Content of training course or workshop including the number of hours trained.
- As an alternative to a, b, and c listed above, a photocopy of the current Erosion and Stormwater Management card issued by the University of Minnesota can be attached to the SWPPP as suitable documentation of training.

DOCUMENTATION RETENTION:

The following documentation will be retained for a period of not less than 3-years from the date of submittal of the NOT.

- The final SWPPP.
- Copies of all stormwater related permits required for the project.
- Records of all inspection and maintenance conducted during construction.
- Copies of all permanent operation and maintenance agreements; including all right-of-way, contracts, covenants and other binding requirements regarding perpetual maintenance.
- All required calculations for design of temporary and permanent BMP's.

IMPLEMENTATION SCHEDULE AND PHASING:

- Furnish & Install perimeter sediment control and inlet protection.
- Reclamation of existing bituminous pavement.
- Rough grade site.
- Furnish & install bituminous pavement.
- Add additional temporary BMP's as necessary during construction based on inspection reports.
- Submit Notice of Termination (NOT) to MPCA within 30 days of final stabilization.

FINAL STABILIZATION:

The permittee(s) must ensure final stabilization of the site. The permittee(s) must submit a NOT within 30 days after final stabilization is complete, or another owner/operator (permittee) has assumed control over all areas of the site which have not undergone final stabilization. Final stabilization can be achieved in one of the following ways:

- All soil disturbing activities at the site have been completed and all soils must be stabilized by a uniform perennial vegetative cover with a density of 70 percent over the entire pervious surface area, or other equivalent means necessary to prevent soil failure under erosive conditions and;
 - All drainage ditches, constructed to drain water from the site after construction is complete, must be stabilized to preclude erosion;
 - All temporary synthetic, and structural erosion prevention and sediment control BMP's (such as silt fence) must be removed as part of the site final stabilization; and
 - The permittee(s) must clean out all sediment from conveyances and from temporary sedimentation basins to be used as permanent water quality management basins. Sediment must be stabilized to prevent it from being washed back into the basin, conveyances or drainage ways discharging off-site or to surface waters. The cleanout of permanent basins must be sufficient to return the basin to design capacity.
- Final vegetation cover shall be in the Project Specifications.
- For residential construction only, final stabilization has been achieved when temporary erosion protection and down gradient perimeter control for individual lots has been completed and the residence has been transferred to the homeowner. Additionally, the permittee must distribute the MPCA "Homeowner fact sheet" to the homeowner to inform the homeowner of the need for, and benefits of, final stabilization.

SPECIAL ENVIRONMENTAL CONSIDERATIONS:

Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?	NO
Does any portion of the site have the potential to affect threatened or endangered species?	NO
Does any portion of this site discharge to a Calcareous Fen and the letter of approval from the DNR is located in the Project Manual?	NO
Will any portion of this site potentially affect properties listed on the National Register of Historic Places or a Known or Discovered Archeological site?	NO
Have any Karst features been identified in the project vicinity?	NO
Is compliance with temporary or permanent stormwater management design requirements infeasible for this project?	NO

POLLUTION PREVENTION MANAGEMENT MEASURES:

The permittee(s) shall implement the following pollution prevention management measures on the site:

- Solid waste: collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris and other wastes must be disposed of properly and must comply with MPCA disposal regulations.
- Hazardous materials: oil, gasoline, paint and any hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with MPCA regulations.
- External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of. No engine degreasing is allowed on site.

GENERAL STORMWATER DISCHARGE REQUIREMENTS:

All requirements listed in Part 15 of the permit for the design of permanent stormwater treatment system and discharge have been included in the preparation of this SWPPP. These include but are not limited to:

- The expected amount, frequency, intensity and duration of precipitation.
- The nature of stormwater runoff and run-on at the site.
- Peak flow rates and stormwater volumes to minimize erosion at outlets and downstream channel and stream bank erosion.
- The range of soil particle sizes expected to be present on the site.

RECEIVING WATERS:

Receiving waters, including surface water, wetlands, Public Waters, and stormwater ponds are identified on the USGS 7.5min quad map within 1 mile of the project boundary. Receiving waters that are impaired, the impairment and WLA are listed as follows. All specific BMP's relative to construction activities listed in this permit for special and impaired waters have been incorporated into this plan. All specific BMP's listed in approved TMDLs and those BMP's listed for construction related waste load allocations have also been incorporated.

NAME OF WATER BODY	TYPE (DITCH, POND, WETLAND, LAKE, ETC.)	APPENDIX A SPECIAL WATER?	FLOWS TO IMPAIRED WATER WITHIN 1 MILE?	USEPA APPROVED TMDL?
MISSISSIPPI RIVER	RIVER	YES	YES	YES

IMPAIRMENTS: DO; FISHERBIO; INVERTBIO

PROJECT AREAS:

Total project size (disturbed area) =	6.38 acres
Existing area of impervious surface =	5.72 acres
Post construction area of impervious surface =	6.12 acres
New impervious surface area created =	0.40 acres

Planned construction start date: June 2021
Planned construction completion date: September 2021

PROJECT LOCATION:

County: ANOKA Township: 32 Range: 25 Section: 35 Latitude: 45.223416 Longitude: -93.424515

PERMANENT STORMWATER MANAGEMENT SYSTEM:

Type of storm water management used if more than 1 acre of new impervious surface is created:

- Wet Sedimentation Pond
- Infiltration / Filtration
- Regional Pond
- Permanent Stormwater Management Not Required

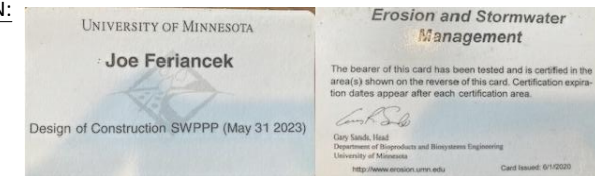
LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN:

DESCRIPTION	LOCATION
TEMPORARY EROSION CONTROL MEASURES	SHEETS No. 08 - 09
FINAL STABILIZATION	SHEETS No. 18 - 25
STORM SEWER TABULATION	SHEETS No. 18 - 25
EROSION AND SEDIMENT CONTROL DETAILS	SHEETS No. 05

EROSION AND SEDIMENT CONTROL QUANTITIES:

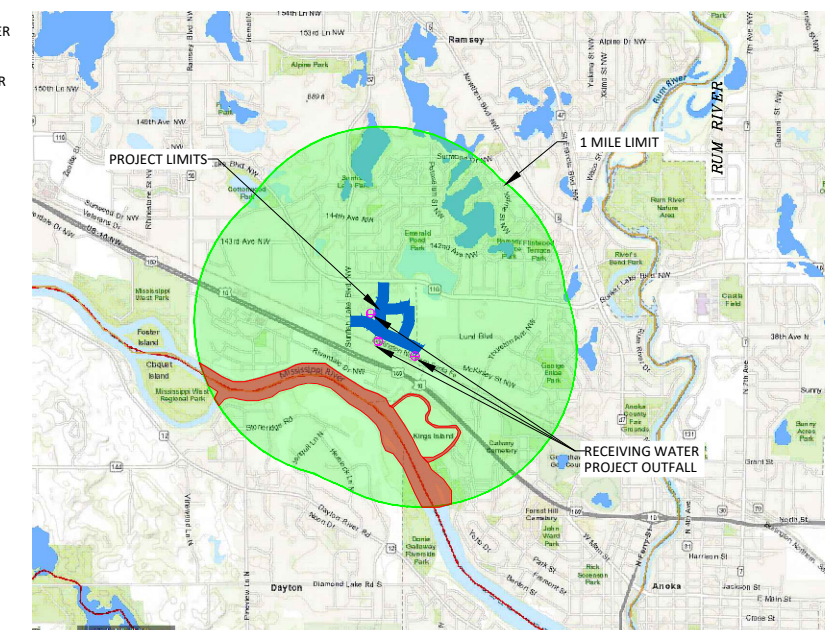
DESCRIPTION	QUANTITY
SILT FENCE TYPE MS	600 LF
STORM DRAIN INLET PROTECTION	27 EA.
RIP RAP	33 CY
SODDING TYPE LAWN	1256 SY

CERTIFICATION:



LEGEND

- PROJECT LIMITS
- 1 MILE LIMIT
- RECEIVING WATER
- IMPAIRED WATER

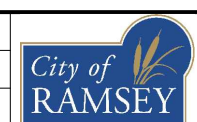


DATE	REVISION

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

Joe Ferianeck
JOE FERIANECK, P.E.
Date: 3/9/21 Lic. No. 57095

DESIGNED BY:	JJF
DRAWN BY:	JJF
CHECKED BY:	BRW
DATE:	3/9/21
FILE:	21-03



CITY OF RAMSEY
7550 SUNWOOD DRIVE
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SWPPP

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
CITY OF RAMSEY, MINNESOTA

SHEET
06
OF
26
SHEETS

SEQUENCE OF CONSTRUCTION:

Construction shall proceed in the following sequence:

1. Contractor shall schedule and conduct a pre-construction meeting with the City.
2. Contractor shall secure all necessary permits and licenses.
3. Furnish & install erosion control measures.
4. Maintain erosion control measures, i.e. silt fence, inlet protection.
5. Reclaim existing bituminous pavement and base.
6. Scarify, grade and compact 1' below reclaim section.
7. Re-install reclamation material as necessary, grade and compact reclamation material.
8. Furnish & install base course of bituminous pavement
9. Complete concrete curb and gutter repairs, install restoration per plan.
10. Furnish & install wear course of bituminous pavement.
11. Remove erosion control after vegetation is established.

ADDITIONAL STORMWATER POLLUTION PREVENTION, GRADING PLAN, AND SCHEDULE NOTES:

1. All slopes to be 1:4 unless approved by the city engineer.
2. Below grade structures shall be protected and meet drainage requirements per the city engineer.
3. Construction operation hours are from 7:00 a.m. - 10:00 p.m. Monday through Saturday.
4. Call Gopher State One Call for utility locations prior to any work at 1-800-252-1166.
5. Permittee may need to modify SWPPP if the general objectives of controlling pollutants is not being met.
6. Operator shall implement these and any other BMP's that may be required to meet the general permit requirements.
7. Site is not in karst area or pollution or remediation site.
8. Silt fence to be installed downhill from any grading activity.
9. If tracking onto adjacent streets occurs a street sweeper shall be used to clean streets within 8 hours or as directed by the engineer.
10. Dust control may be necessary during rough grading. No grading can take place if wind speed exceeds 25 mph.
11. Solid waste shall be collected and disposed of properly and must comply with MPCA disposal requirements.
12. Hazardous materials shall be stored properly to prevent spills and vandalism.
13. No engine degreasing is allowed on site. External washing of vehicles shall be limited to a defined area (bone yard) on site.
14. Permittee(s) shall adhere to all SWPPP specifications on the plan and other MPCA permit requirements.

EROSION PREVENTION PRACTICES:

1. The permittee(s) must plan for and implement appropriate construction phasing, vegetative buffer strips, horizontal slope grading, and other construction practices that minimize erosion, so that the inspection and maintenance requirements are complied with. The location of areas not to be disturbed must be delineated (e.g. with flags, stakes, signs, silt fence, etc.) on the development site before work begins.
2. All exposed soil areas must be stabilized as soon as practical, but in no case later than 7 days after the construction area has temporarily or permanently ceased. These areas include constructed stormwater management pond side slopes, and any exposed soil areas with a positive slope to a stormwater conveyance system, such as a curb and gutter system, storm sewer inlet, temporary or permanent drainage ditch or other natural or man made systems that discharge to a surface water.
3. The normal wetted perimeter of any temporary or permanent drainage ditch that drains water from a construction site, or diverts water around a site, must be stabilized within 200 lineal feet from the property edge, or from the point of discharge to any surface water. Stabilization must be completed within 24 hours of connecting to a surface water.
4. Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours of connection to a surface water.
5. All disturbed areas, except roadways, building areas, parking areas, islands and sidewalk, shall be restored with minimum 2 inches topsoil, seeded and mulched within 7 days of completion of site grading. Seeding shall be in accordance with MnDOT Specification 2575. Where side slopes exceed or equal 1:3 and running slope is greater than 1:50, a polypropylene netting or wood fiber blanket shall be provided and staked over the mulched area. Seed and mulch types and applications rates are per plan and specification.
6. Refer to restoration plan for areas to be seeded or sodded for erosion control.

DEWATERING AND BASIN DRAINING:

1. Dewatering or basin draining (e.g. pumped discharges, trench/ditch cuts for drainage) related to the construction activity that may have turbid or sediment laden discharge water must be discharged to a temporary or permanent sedimentation basin on the project site whenever possible. If the water cannot be discharged to a sedimentation basin prior to entering the surface water, it must be treated with the appropriate BMP's, such that the discharge does not adversely affect the receiving water or downstream landowners. The permittee(s) must ensure that discharge points are adequately protected from erosion and scour. The discharge must be dispersed over natural rock rip rap, sand bags, plastic sheeting or other accepted energy dissipation measures. Adequate sedimentation control measures are required for discharge water that contains suspended solids.
2. All water from dewatering or basin draining activities must be discharged in a manner that does not cause nuisance conditions, erosion in receiving channels or on downslope properties, or inundation in wetlands causing significant adverse impact to the wetland.

SEDIMENT CONTROL PRACTICES:

1. Sediment control practices must minimize sediment from entering surface waters, including curb and gutter systems and storm sewer inlets.
 - a. Temporary or permanent drainage ditches and sediment basins that are designed as part of a treatment system (e.g. ditches with rock check dams) require sediment control practices only as appropriate for site conditions.
 - b. If the down gradient treatment system is overloaded, additional upgradient sediment control practices must be installed to eliminate the overloading, and the SWPPP must be amended to identify these additional practices.
 - c. In order to maintain sheet flow and minimize rills and/or gullies, there shall be no unbroken slope length of greater than 75 feet for slopes with a grade of 1:3 or steeper.
2. Sediment control practices must be established on all down gradient perimeters before any upgradient land disturbing activities begin. These practices shall remain in place until final stabilization has been established.
3. The timing of the installation of sediment control practices may be adjusted to accommodate short-term activities such as clearing or grubbing, or passage of vehicles. Any short-term activity must be completed as quickly as possible and the sediment control practices must be installed immediately after the activity is completed. However, sediment control practices must be installed before the next precipitation event even if the activity is not complete.
4. All storm drain inlets must be protected by appropriate BMP's during construction until all sources with potential for discharging to the inlet have been stabilized.
5. Temporary soil stockpiles must have silt fence or other effective sediment controls, and cannot be placed in surface waters, including stormwater conveyances such as curb and gutter systems, or conduits and ditches.
6. Stockpile areas which remain on the site for more than seven days shall be seeded, mulched, and surrounded by silt fence.
7. Vehicle tracking of sediment from the construction site must be minimized by BMP's such as stone pads, concrete or steel wash racks, or equivalent systems. Street sweeping must be used if such BMPs are not adequate to prevent sediment from being tracked onto the street.
8. The permittee must install temporary sedimentation basins as required.

INSPECTIONS AND MAINTENANCE:

1. The permittee(s) (either the owner or operator, whoever is identified in the SWPPP) must routinely inspect the construction site once every seven (7) days during active construction and within 24 hours after a rainfall event greater than 0.5-inches in 24 hours. Following an inspection that occurs within 24 hours after a rainfall event, the next inspection must be conducted within 7 days.
2. All inspections and maintenance conducted during construction must be recorded in writing and these records must be retained with the SWPPP. Records of each inspection and maintenance activity shall include:
 - a. Date and time of inspections;
 - b. Name of persons conducting inspections;
 - c. Accurate findings of inspections, including the specific location where corrective actions are needed;
 - d. Corrective actions taken (including dates, times, and party completing maintenance activities);
 - e. Date of all rainfall events greater than ½ inches in 24 hours, and the amount of rainfall for each event. Permittee(s) must obtain rainfall amounts by either a properly maintained rain gauge installed onsite, a weather station that is within one (1) mile of your location, or a weather reporting system that provides site specific rainfall data from radar summaries;
 - f. If permittee(s) observe a discharge (i.e., color, odor, settled or suspended solids, oil sheen, and other obvious indicators of pollutant(s));
 - g. Any amendments to the SWPPP proposed as a result of the inspection must be documented as required in Section 6 of the general permit within seven (7) calendar days.
3. Where parts of the construction site have undergone final stabilization, but work remains on other parts of the site, inspections of the stabilized areas may be reduced to once per month. Where work has been suspended due to frozen ground conditions, the required inspections and maintenance must take place within 24 hours after runoff occurs at the site or 24 hours prior to resuming construction, whichever occurs first.
4. All erosion prevention and sediment control BMP's must be inspected to ensure integrity and effectiveness. All nonfunctional BMP's must be repaired, replaced, or supplemented with functional BMP's. The permittee(s) must investigate and comply with the following inspection and maintenance requirements:
 - a. All silt fence must be repaired, replaced, or supplemented when they become nonfunctional or the sediment reaches ½ of the height of the fence. These repairs must be made within 24 hours of discovery, or as soon as field conditions allow access.
 - b. Temporary and permanent sedimentation basins must be drained and the sediment removed when the depth of sediment collected in the basin reaches ½ the storage volume. Drainage and removal must be completed within 72 hours of discovery, or as soon as field conditions allow access.
 - c. Surface waters, including drainage ditches and conveyance systems, must be inspected for evidence of sediment being deposited by erosion. The permittee(s) must remove all deltas and sediment deposited in surface waters, including drainage ways, catch basins, and other drainage systems, and restabilize the areas where sediment removal results in exposed soil. The removal and stabilization must take place within seven (7) days of discovery unless precluded by legal, regulatory, or physical access constraints. The permittee shall use all reasonable efforts to obtain access. If precluded, removal and stabilization must take place within seven (7) calendar days of obtaining access. The permittee is responsible for contacting all local, regional, state and federal authorities and receiving any applicable permits, prior to conducting any work.
 - d. Construction site vehicle exit locations must be inspected for evidence of off-site sediment tracking onto paved surfaces. Tracked sediment must be removed from all paved surfaces within 3 hours after notification by the City that sweeping is required.
 - e. The permittee(s) are responsible for the operation and maintenance of temporary and permanent water quality management BMP's as well as all erosion prevention and sediment control BMP's, for the duration of the construction work at the site. The permittee(s) are responsible until another permittee has assumed control over all areas of the site that have not been finally stabilized or the site has undergone final stabilization, and a NOT has been submitted to the MPCA.
 - e. If sediment escapes the construction site, off-site accumulations of sediment must be removed in a manner and at a frequency sufficient to minimize off-site impacts (e.g. fugitive sediment in streets could be washed into storm sewers by the next rain and/or pose a safety hazard to users of public streets).
5. All infiltration areas must be inspected to ensure that no sediment from ongoing construction activities is reaching the infiltration area and these areas are protected from compaction due to construction equipment driving across the infiltration area.
6. Storm sewer pipes and structures to be inspected and cleaned out.

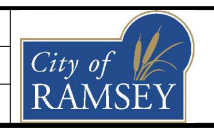
DATE	REVISION

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

Joe Feriancek

 JOE FERIANCEK, P.E.
 Date 3/9/21 Lic. No. 57095

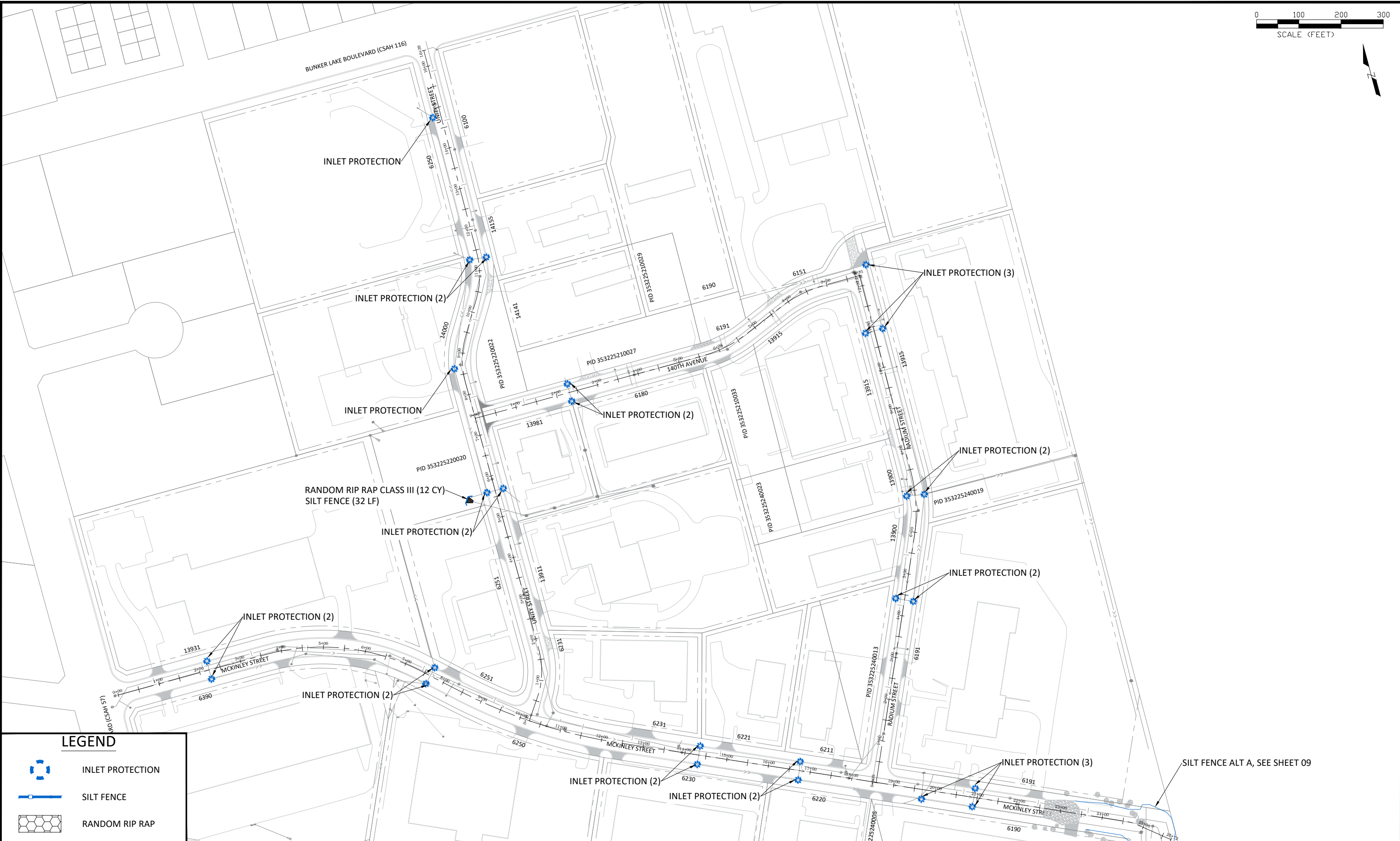
DESIGNED BY:	JJF	DATE:	3/9/21
DRAWN BY:	JJF	FILE:	21-03
CHECKED BY:	BRW		






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

SWPPP

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
 CITY OF RAMSEY, MINNESOTA



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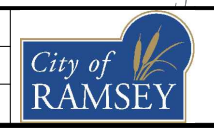
-  INLET PROTECTION
-  SILT FENCE
-  RANDOM RIP RAP

DATE	REVISION

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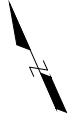
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EROSION CONTROL

BUSINESS PARK 95 STREET RECONSTRUCTIONS
 CITY PROJECT NO. 21-03
 CITY OF RAMSEY, MINNESOTA



6191

MCKINLEY STREET




6190

SILT FENCE (600 LF)

INLET PROTECTION

RIP RAP (33 CY)

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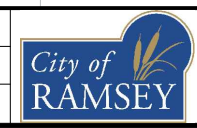
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EROSION CONTROL - ALT A MCKINLEY STREET CDS EXTENSION

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
CITY OF RAMSEY, MINNESOTA



13931

MCKINLEY STREET

6390

2' X 2" DEEP EDGE MILL
SEE CITY DETAIL STR-31
SAWCUT BIT - FULL DEPTH

REMOVE BIT DRIVE (34 SY)
SAWCUT BIT - FULL DEPTH

REMOVE BIT DRIVE (46 SY)
SAWCUT BIT - FULL DEPTH

REMOVE CONCRETE CURB & GUTTER (TYP.)

REMOVE BIT DRIVE (32 SY)
SAWCUT BIT - FULL DEPTH

6251

UNITY STREET

13911

6231

6251 MATCH TO SHEET 13
STA 1+00

6250
STA 10+00

- NOTE:**
1. CONCRETE CURB AND GUTTER REMOVALS ARE SHOWN IN AN APPROXIMATE WAY ONLY. REMOVALS SHALL BE MINIMUM FULL PANEL LENGTH.
 2. REMOVALS WILL BE MARKED IN THE FIELD BY CITY STAFF. ALL REMOVALS MUST BE SAWCUT.
 3. PROTECT LANDSCAPING AND IRRIGATION. PROPERTY OWNERS ARE TO LOCATE AND MOVE IRRIGATION BEFORE CONSTRUCTION.
 4. ACCESS MUST BE MAINTAINED TO ALL PROPERTIES AT ALL TIMES DURING CONSTRUCTION. PROPERTIES WITH 2 OR MORE DRIVES MUST ALWAYS HAVE ACCESS TO AT LEAST 1 DRIVE. PROPERTIES WITH 1 DRIVE MUST BE REPLACED $\frac{1}{2}$ AT A TIME.

LEGEND

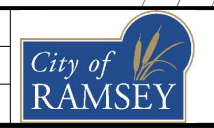
	ADJUST FRAME AND RING CASTING		REMOVE CONCRETE CURB & GUTTER
	ADJUST VALVE BOX		REMOVE STORM SEWER
	REMOVE TREE		SAWCUT PAVEMENT - FULL DEPTH
	RECLAMATION - FULL DEPTH		BURIED POWER LINE
	REMOVE DRIVEWAY PAVEMENT - BITUMINOUS		FIBER OPTIC LINE
	REMOVE DRIVEWAY PAVEMENT - CONCRETE		COMMUNICATION LINE
	REMOVE CONCRETE VALLEY GUTTER		GAS LINE
	MILL BITUMINOUS PAVEMENT - STREET TIE-IN		

DATE	REVISION

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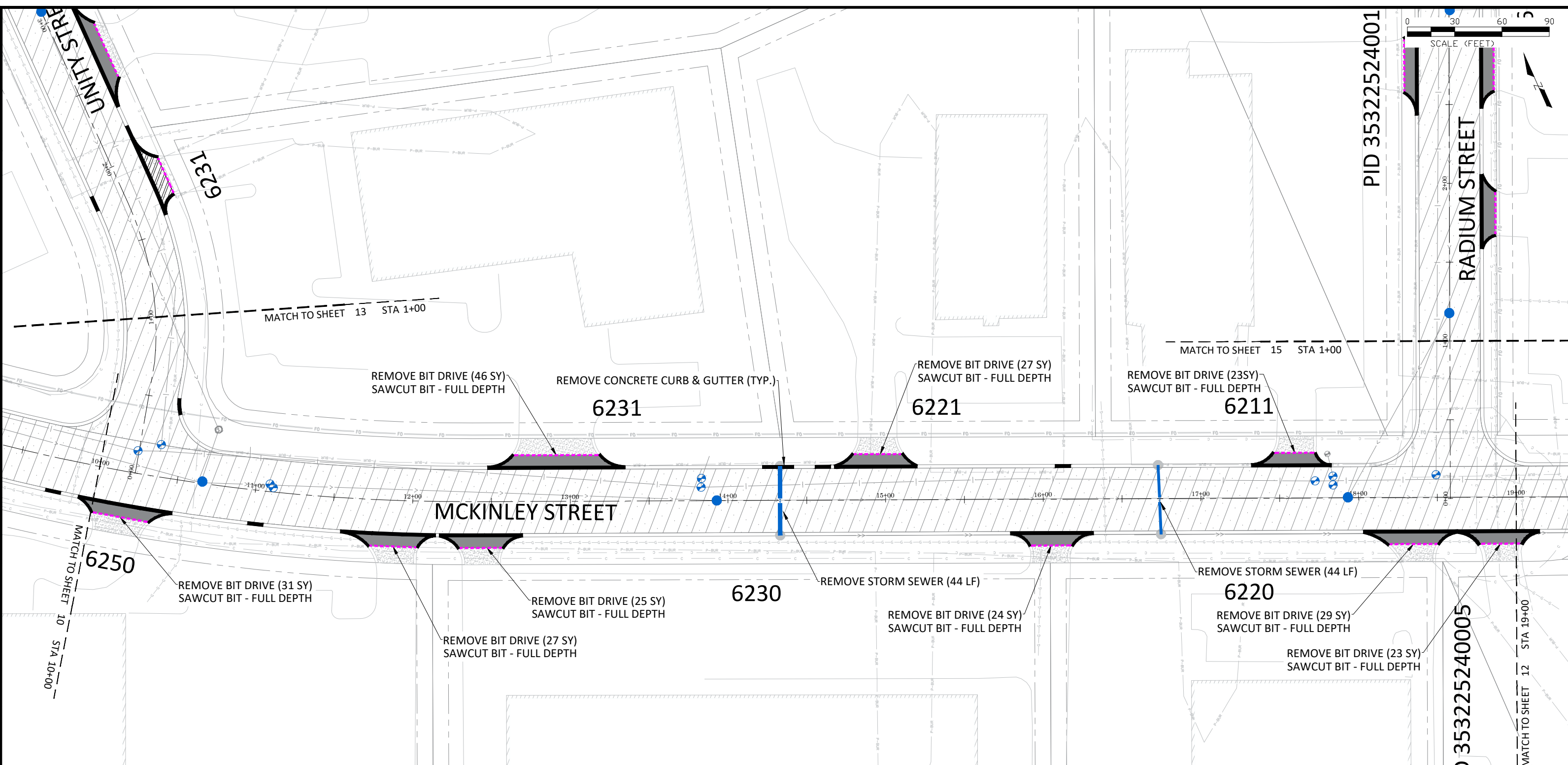
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EXISTING CONDITIONS & REMOVALS
 MCKINLEY STA. 0+00 TO 10+00

BUSINESS PARK 95 STREET RECONSTRUCTIONS
 CITY PROJECT NO. 21-03
 CITY OF RAMSEY, MINNESOTA



LEGEND

	ADJUST FRAME AND RING CASTING		REMOVE CONCRETE CURB & GUTTER
	ADJUST VALVE BOX		REMOVE STORM SEWER
	REMOVE TREE		SAWCUT PAVEMENT - FULL DEPTH
	RECLAMATION - FULL DEPTH		BURIED POWER LINE
	REMOVE DRIVEWAY PAVEMENT - BITUMINOUS		FIBER OPTIC LINE
	REMOVE DRIVEWAY PAVEMENT - CONCRETE		COMMUNICATION LINE
	REMOVE CONCRETE VALLEY GUTTER		GAS LINE
	MILL BITUMINOUS PAVEMENT - STREET TIE-IN		

NOTE:

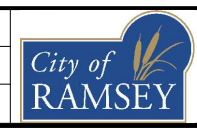
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DATE	REVISION

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Joe Feriancek
JOE FERIANCEK, P.E.
 Date 3/9/21 Lic. No. 57095

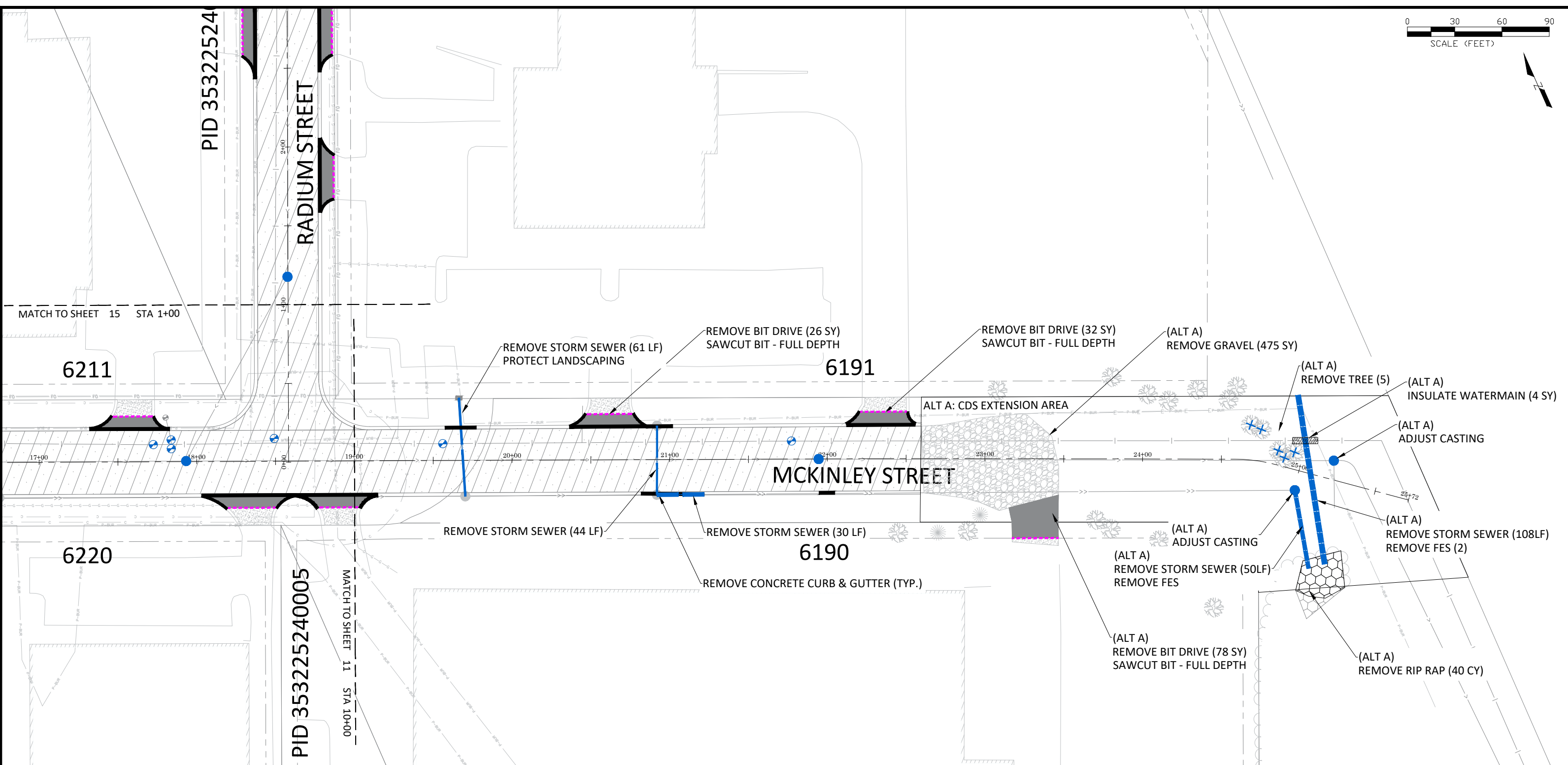
DESIGNED BY:	JJF
DRAWN BY:	JJF
CHECKED BY:	BRW
DATE:	3/9/21
FILE:	21-03



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

EXISTING CONDITIONS & REMOVALS
 MCKINLEY STA. 10+00 TO 19+00

BUSINESS PARK 95 STREET RECONSTRUCTIONS
 CITY PROJECT NO. 21-03
 CITY OF RAMSEY, MINNESOTA



LEGEND

	ADJUST FRAME AND RING CASTING		REMOVE CONCRETE CURB & GUTTER
	ADJUST VALVE BOX		REMOVE STORM SEWER
	REMOVE TREE		SAWCUT PAVEMENT - FULL DEPTH
	RECLAMATION - FULL DEPTH		BURIED POWER LINE
	REMOVE DRIVEWAY PAVEMENT - BITUMINOUS		FIBER OPTIC LINE
	REMOVE DRIVEWAY PAVEMENT - CONCRETE		COMMUNICATION LINE
	REMOVE CONCRETE VALLEY GUTTER		GAS LINE
	MILL BITUMINOUS PAVEMENT - STREET TIE-IN		

NOTE:

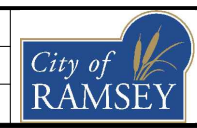
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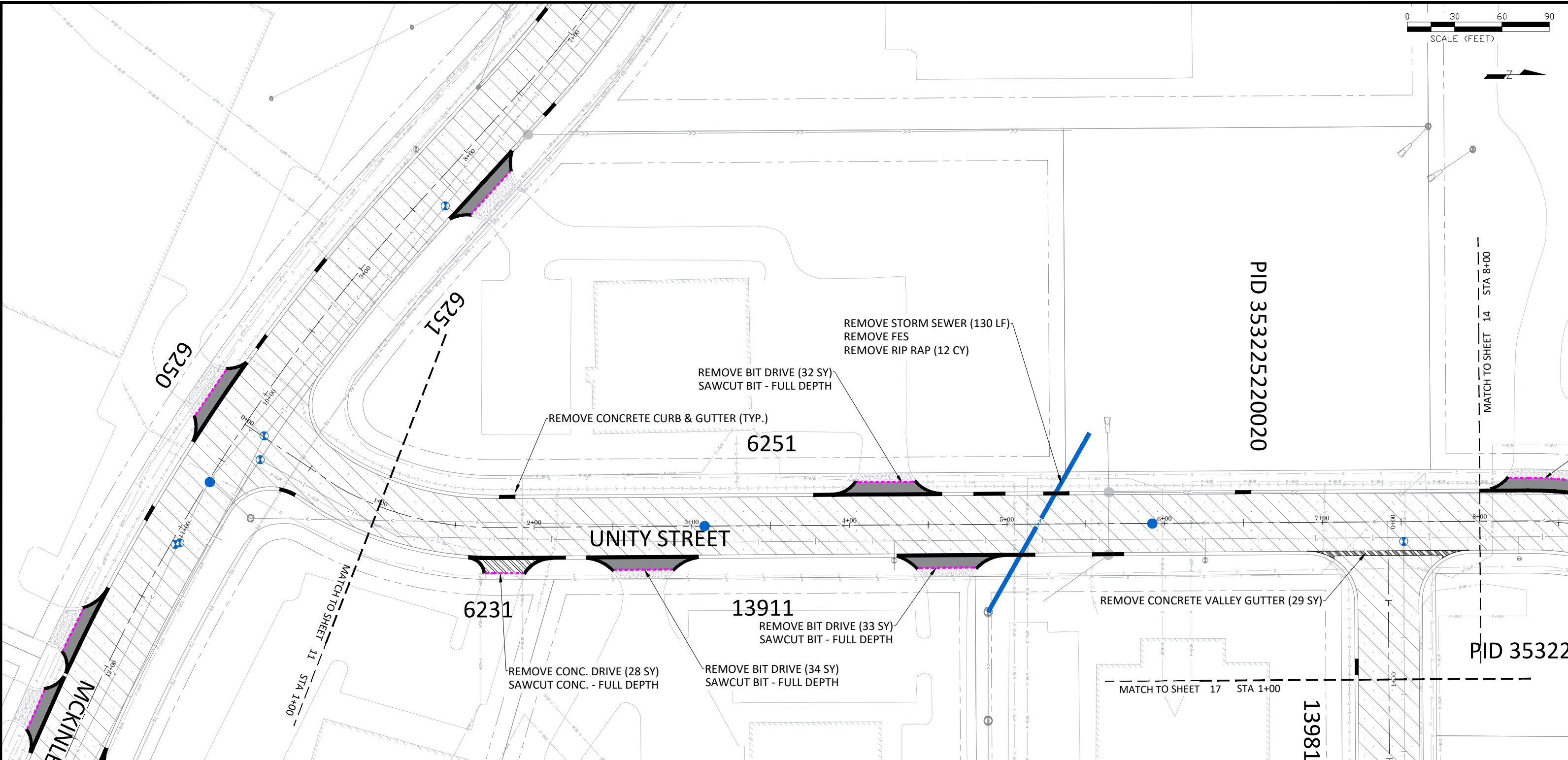
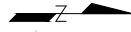
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CITY OF RAMSEY
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RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

EXISTING CONDITIONS & REMOVALS
MCKINLEY STA. 19+00 TO CDS

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
CITY OF RAMSEY, MINNESOTA



LEGEND

	ADJUST FRAME AND RING CASTING		REMOVE CONCRETE CURB & GUTTER
	ADJUST VALVE BOX		REMOVE STORM SEWER
	REMOVE TREE		SAWCUT PAVEMENT - FULL DEPTH
	RECLAMATION - FULL DEPTH		BURIED POWER LINE
	REMOVE DRIVEWAY PAVEMENT - BITUMINOUS		FIBER OPTIC LINE
	REMOVE DRIVEWAY PAVEMENT - CONCRETE		COMMUNICATION LINE
	REMOVE CONCRETE VALLEY GUTTER		GAS LINE
	MILL BITUMINOUS PAVEMENT - STREET TIE-IN		

NOTE:

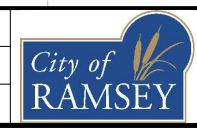
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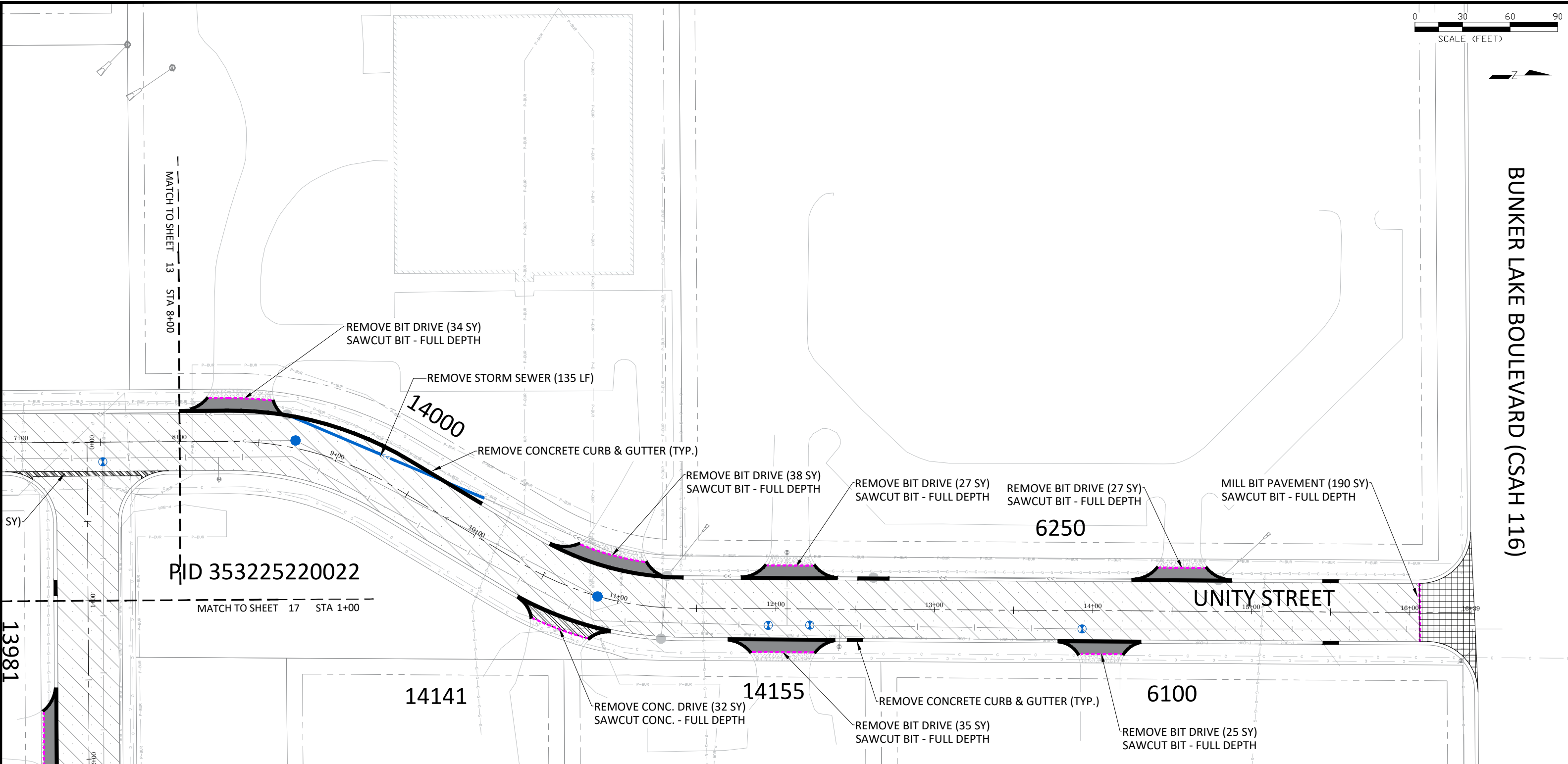
CITY OF RAMSEY
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RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

EXISTING CONDITIONS & REMOVALS
UNITY STA. 0+00 TO 8+00

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
CITY OF RAMSEY, MINNESOTA



BUNKER LAKE BOULEVARD (CSAH 116)



LEGEND

	ADJUST FRAME AND RING CASTING		REMOVE CONCRETE CURB & GUTTER
	ADJUST VALVE BOX		REMOVE STORM SEWER
	REMOVE TREE		SAWCUT PAVEMENT - FULL DEPTH
	RECLAMATION - FULL DEPTH		BURIED POWER LINE
	REMOVE DRIVEWAY PAVEMENT - BITUMINOUS		FIBER OPTIC LINE
	REMOVE DRIVEWAY PAVEMENT - CONCRETE		COMMUNICATION LINE
	REMOVE CONCRETE VALLEY GUTTER		GAS LINE
	MILL BITUMINOUS PAVEMENT - STREET TIE-IN		

NOTE:

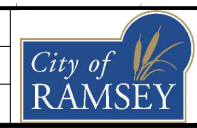
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




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

EXISTING CONDITIONS & REMOVALS
UNITY 8+00 TO B.L. BLVD

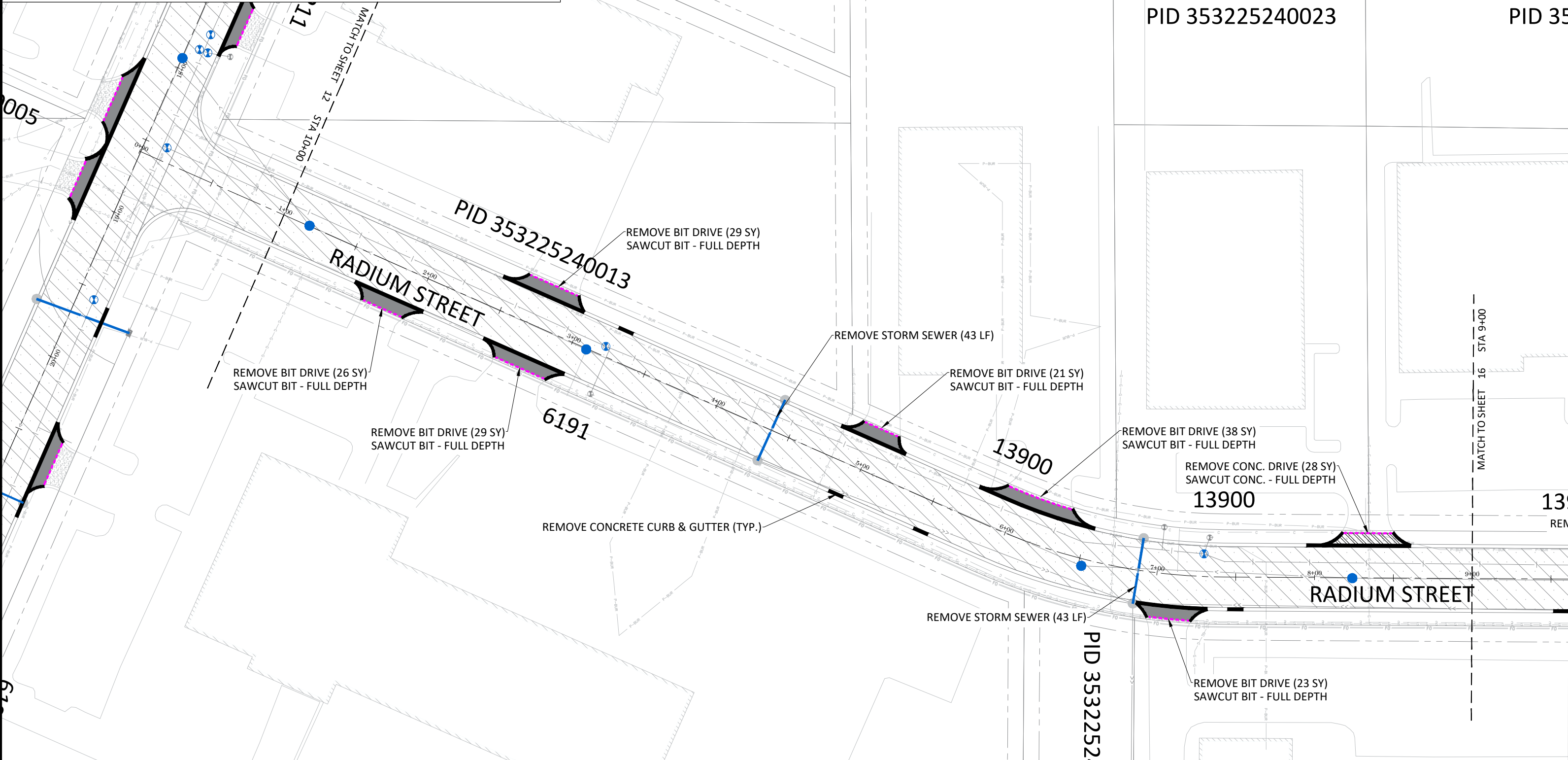
BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
CITY OF RAMSEY, MINNESOTA

LEGEND

- | | | | |
|--|--|---|-------------------------------|
|  | ADJUST FRAME AND RING CASTING |  | REMOVE CONCRETE CURB & GUTTER |
|  | ADJUST VALVE BOX |  | REMOVE STORM SEWER |
|  | REMOVE TREE |  | SAWCUT PAVEMENT - FULL DEPTH |
|  | RECLAMATION - FULL DEPTH |  | BURIED POWER LINE |
|  | REMOVE DRIVEWAY PAVEMENT - BITUMINOUS |  | FIBER OPTIC LINE |
|  | REMOVE DRIVEWAY PAVEMENT - CONCRETE |  | COMMUNICATION LINE |
|  | REMOVE CONCRETE VALLEY GUTTER |  | GAS LINE |
|  | MILL BITUMINOUS PAVEMENT - STREET TIE-IN | | |

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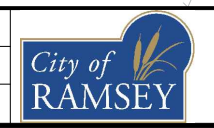
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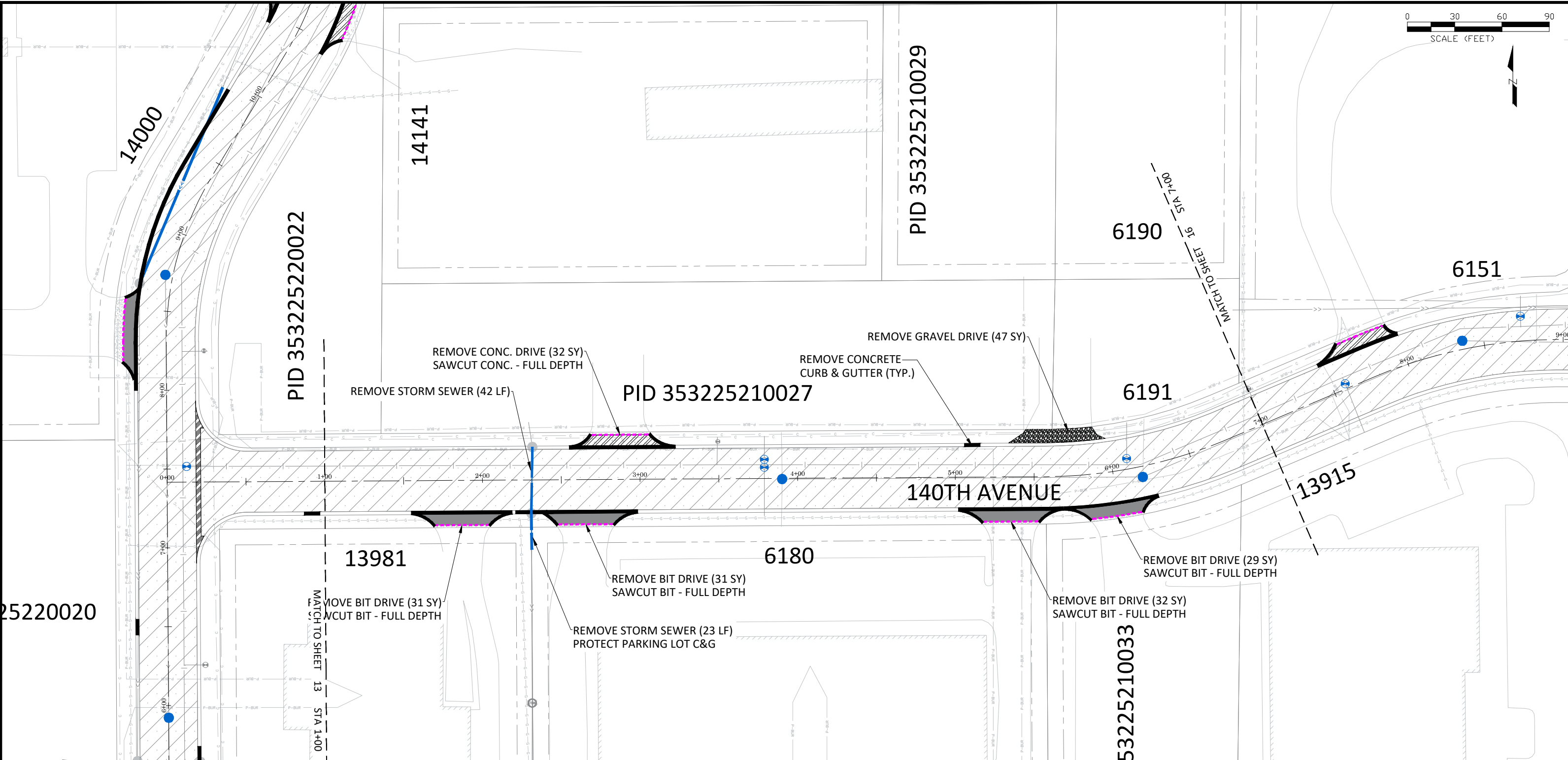
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CITY OF RAMSEY
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 RAMSEY, MN 55303
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EXISTING CONDITIONS & REMOVALS
 RADIUM STA. 0+00 TO 9+00

BUSINESS PARK 95 STREET RECONSTRUCTIONS
 CITY PROJECT NO. 21-03
 CITY OF RAMSEY, MINNESOTA



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LEGEND	
	ADJUST FRAME AND RING CASTING
	ADJUST VALVE BOX
	REMOVE TREE
	RECLAMATION - FULL DEPTH
	REMOVE DRIVEWAY PAVEMENT - BITUMINOUS
	REMOVE DRIVEWAY PAVEMENT - CONCRETE
	REMOVE CONCRETE VALLEY GUTTER
	MILL BITUMINOUS PAVEMENT - STREET TIE-IN
	REMOVE CONCRETE CURB & GUTTER
	REMOVE STORM SEWER
	SAWCUT PAVEMENT - FULL DEPTH
	BURIED POWER LINE
	FIBER OPTIC LINE
	COMMUNICATION LINE
	GAS LINE

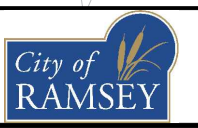
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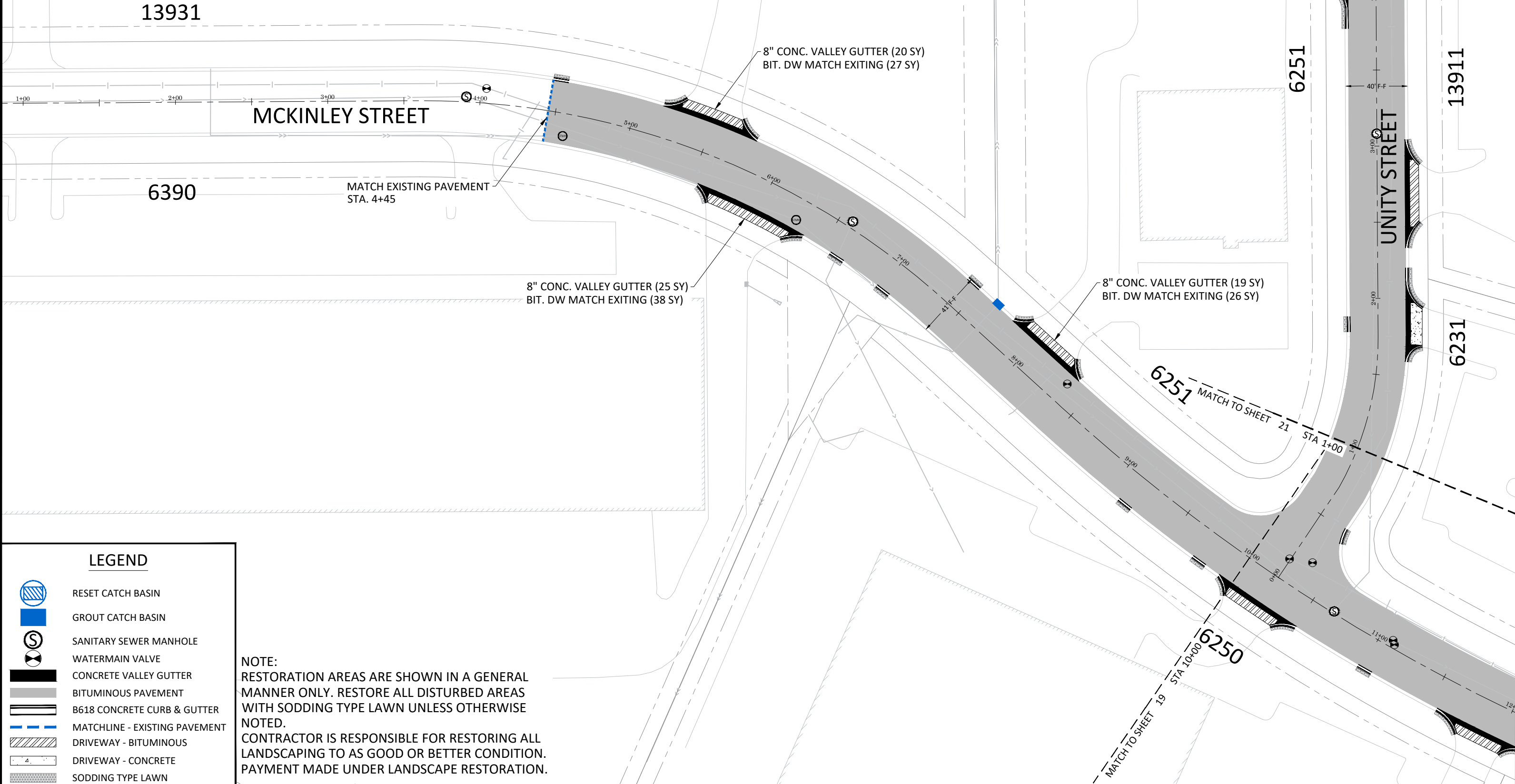
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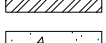

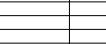


CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

EXISTING CONDITIONS & REMOVALS
140TH STA. 0+00 TO 7+00

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
CITY OF RAMSEY, MINNESOTA



LEGEND

-  RESET CATCH BASIN
-  GROUT CATCH BASIN
-  SANITARY SEWER MANHOLE
-  WATERMAIN VALVE
-  CONCRETE VALLEY GUTTER
-  BITUMINOUS PAVEMENT
-  B618 CONCRETE CURB & GUTTER
-  MATCHLINE - EXISTING PAVEMENT
-  DRIVEWAY - BITUMINOUS
-  DRIVEWAY - CONCRETE
-  SODDING TYPE LAWN

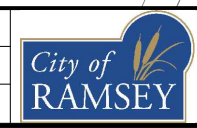
NOTE:
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 CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL LANDSCAPING TO AS GOOD OR BETTER CONDITION.
 PAYMENT MADE UNDER LANDSCAPE RESTORATION.

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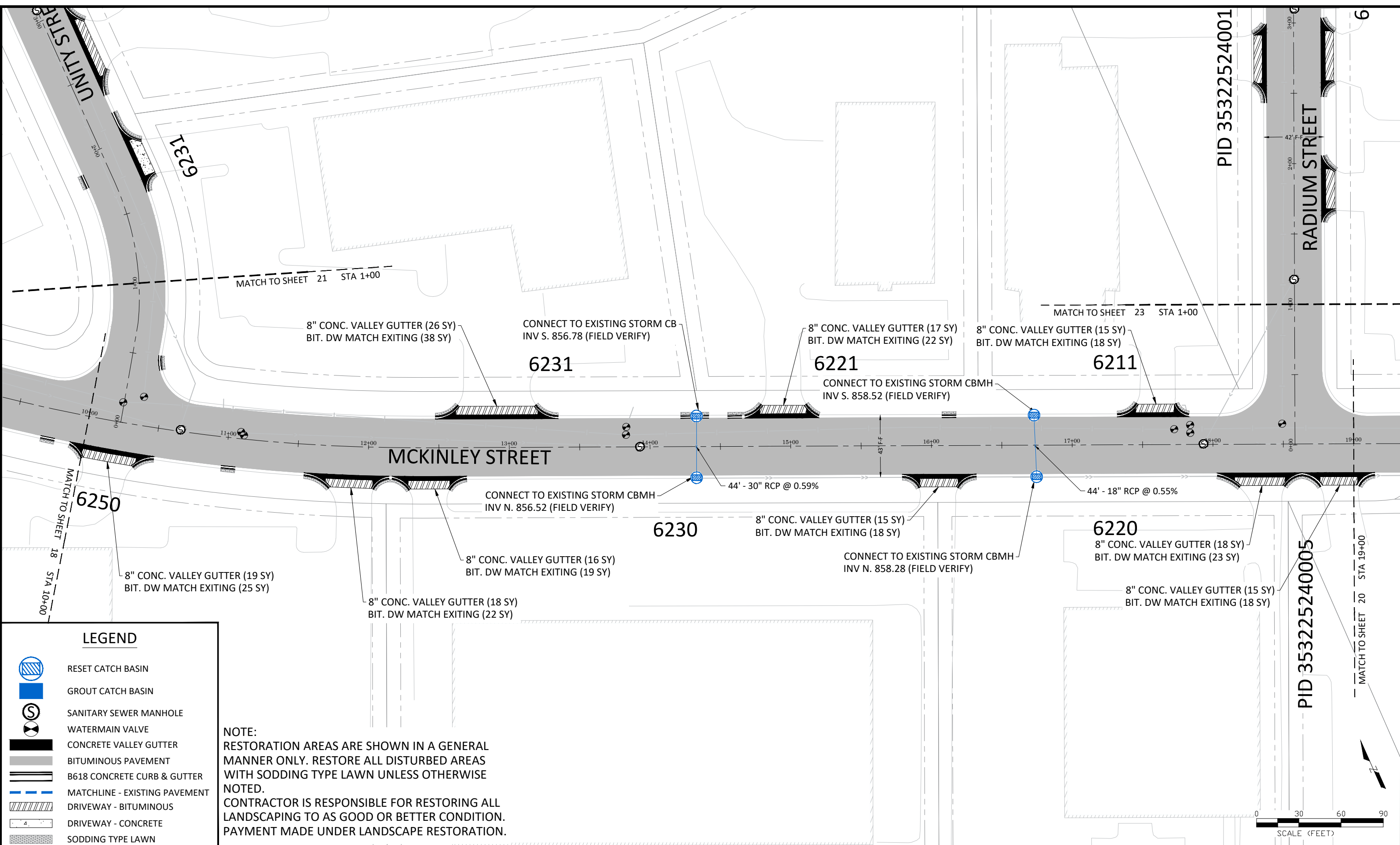
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CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

STREET IMPROVEMENTS
 MCKINLEY STA. 0+00 TO 10+00

BUSINESS PARK 95 STREET RECONSTRUCTIONS
 CITY PROJECT NO. 21-03
 CITY OF RAMSEY, MINNESOTA



LEGEND	
	RESET CATCH BASIN
	GROUT CATCH BASIN
	SANITARY SEWER MANHOLE
	WATERMAIN VALVE
	CONCRETE VALLEY GUTTER
	BITUMINOUS PAVEMENT
	B618 CONCRETE CURB & GUTTER
	MATCHLINE - EXISTING PAVEMENT
	DRIVEWAY - BITUMINOUS
	DRIVEWAY - CONCRETE
	SODDING TYPE LAWN

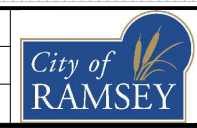
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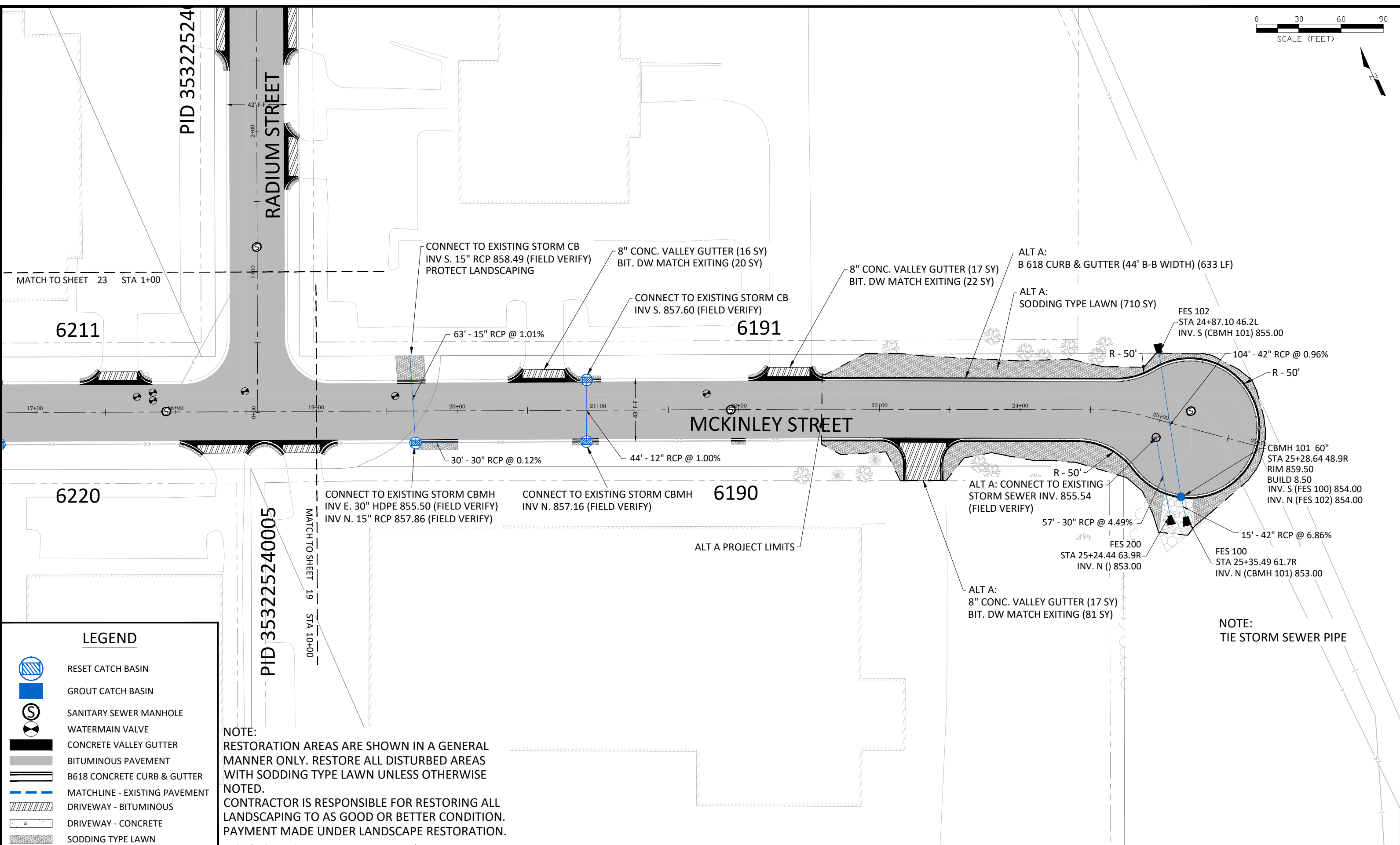
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STREET IMPROVEMENTS
 MCKINLEY STA. 10+00 TO 19+00

BUSINESS PARK 95 STREET RECONSTRUCTIONS
 CITY PROJECT NO. 21-03
 CITY OF RAMSEY, MINNESOTA



LEGEND	
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	WATERMAIN VALVE
	CONCRETE VALLEY GUTTER
	BITUMINOUS PAVEMENT
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	MATCHLINE - EXISTING PAVEMENT
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	DRIVEWAY - CONCRETE
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NOTE:
TIE STORM SEWER PIPE

DATE	REVISION

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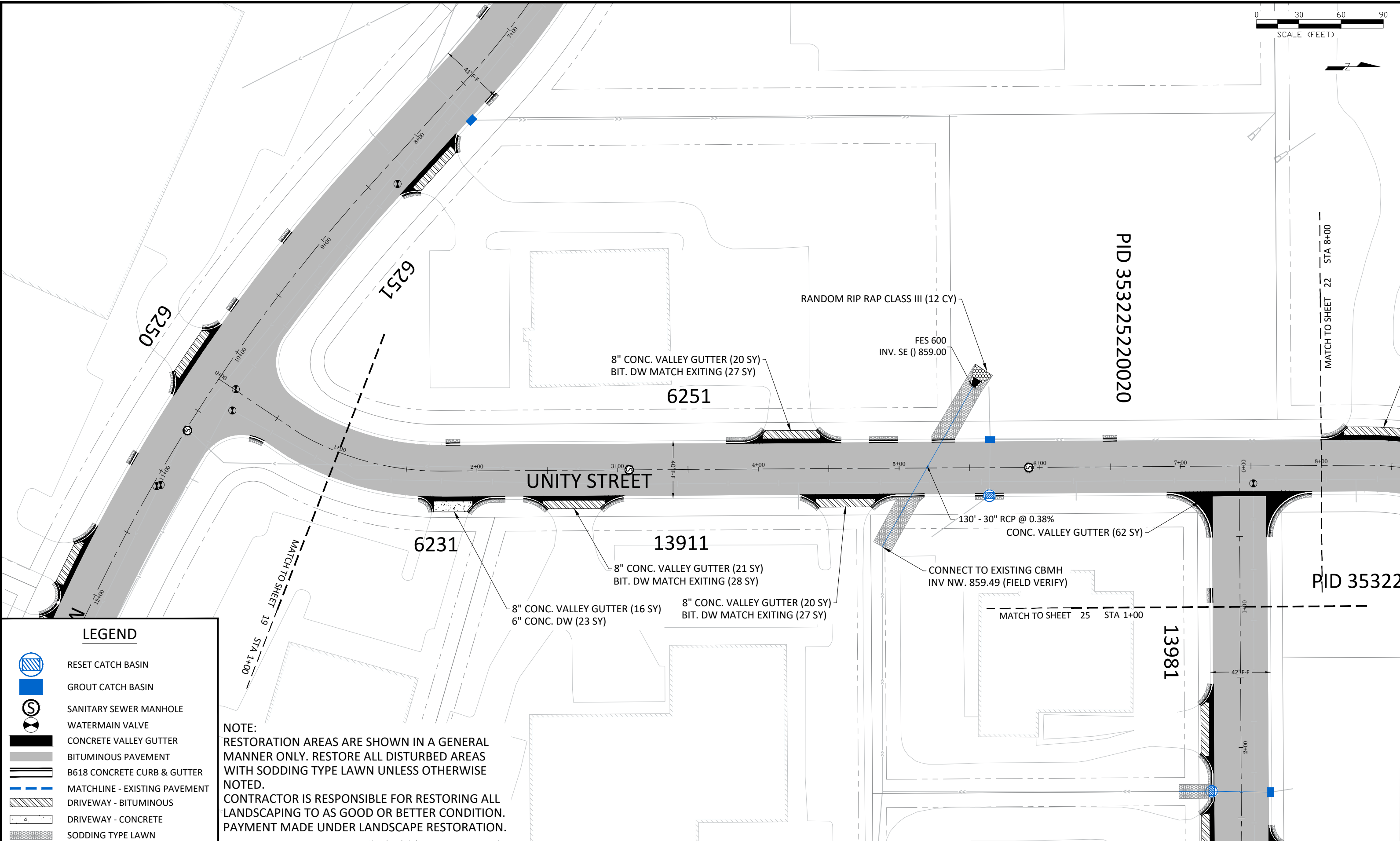
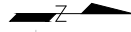
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






CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
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STREET IMPROVEMENTS
MCKINLEY STA. 19+00 TO CDS

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
CITY OF RAMSEY, MINNESOTA



LEGEND

-  RESET CATCH BASIN
-  GROUT CATCH BASIN
-  SANITARY SEWER MANHOLE
-  WATERMAIN VALVE
-  CONCRETE VALLEY GUTTER
-  BITUMINOUS PAVEMENT
-  B618 CONCRETE CURB & GUTTER
-  MATCHLINE - EXISTING PAVEMENT
-  DRIVEWAY - BITUMINOUS
-  DRIVEWAY - CONCRETE
-  SODDING TYPE LAWN

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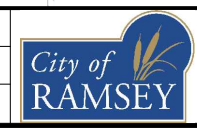
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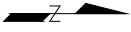
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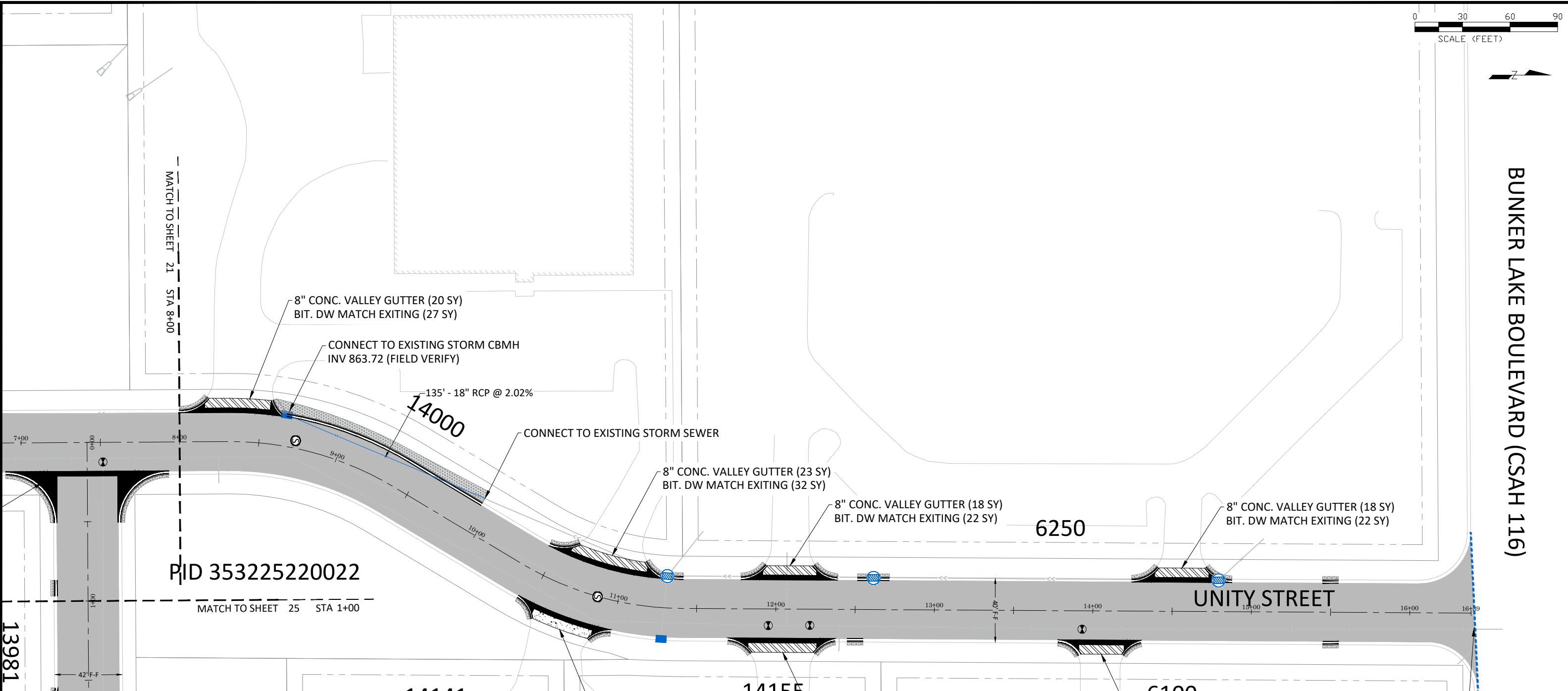
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STREET IMPROVEMENTS
UNITY STA. 0+00 TO 8+00

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
CITY OF RAMSEY, MINNESOTA



BUNKER LAKE BOULEVARD (CSAH 116)



LEGEND

- RESET CATCH BASIN
- GROUT CATCH BASIN
- SANITARY SEWER MANHOLE
- WATERMAIN VALVE
- CONCRETE VALLEY GUTTER
- BITUMINOUS PAVEMENT
- B618 CONCRETE CURB & GUTTER
- MATCHLINE - EXISTING PAVEMENT
- DRIVEWAY - BITUMINOUS
- DRIVEWAY - CONCRETE
- SODDING TYPE LAWN

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DATE	REVISION

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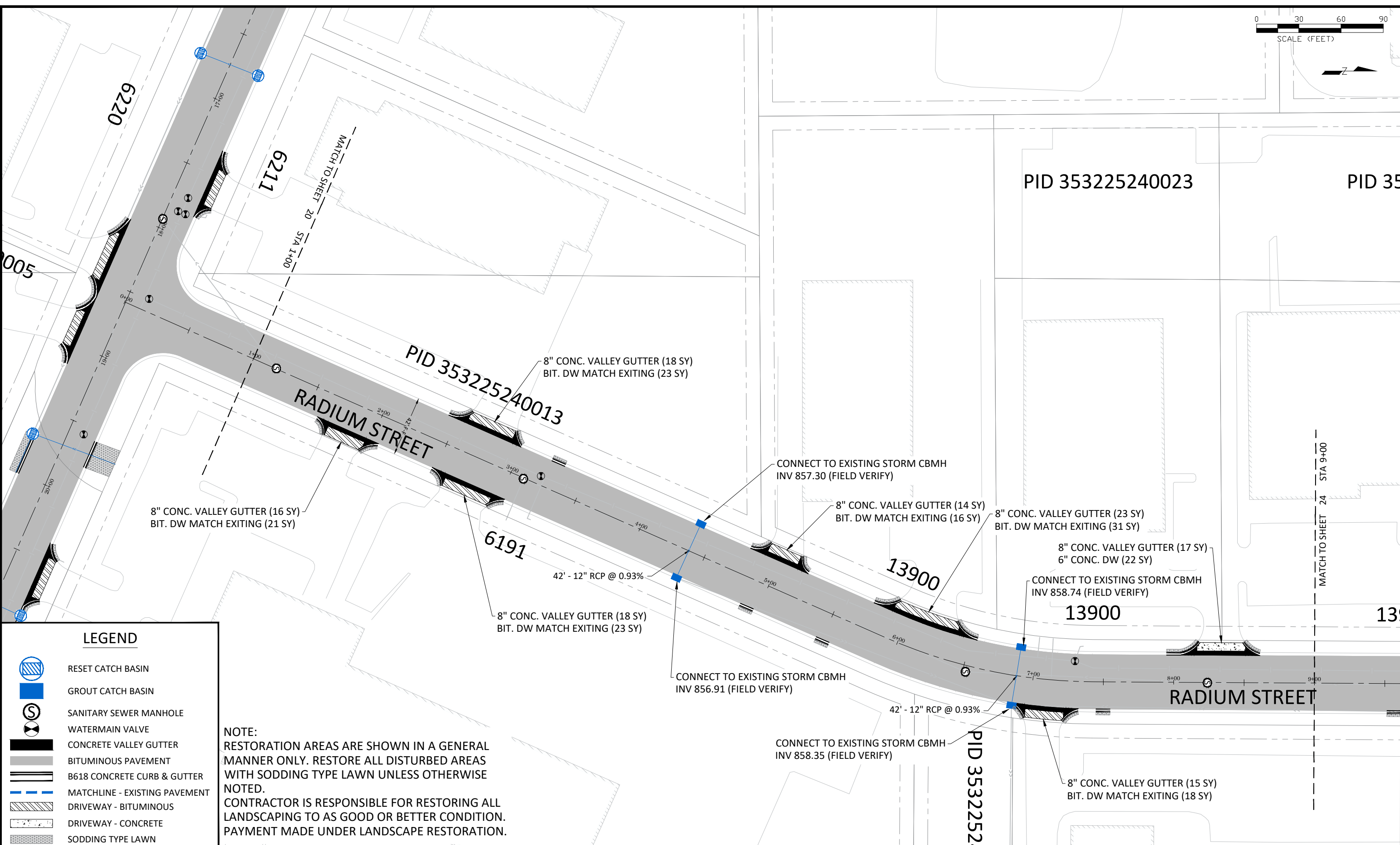
Joe Feriancek
JOE FERIANCEK, P.E.
Date 3/9/21 Lic. No. 57095

DESIGNED BY:	JJF
DRAWN BY:	JJF
CHECKED BY:	BRW
DATE:	3/9/21
FILE:	21-03








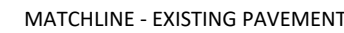



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
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STREET IMPROVEMENTS
UNITY STA. 8+00 TO B.L. BLVD

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
CITY OF RAMSEY, MINNESOTA



LEGEND

-  RESET CATCH BASIN
-  GROUT CATCH BASIN
-  SANITARY SEWER MANHOLE
-  WATERMAIN VALVE
-  CONCRETE VALLEY GUTTER
-  BITUMINOUS PAVEMENT
-  B618 CONCRETE CURB & GUTTER
-  MATCHLINE - EXISTING PAVEMENT
-  DRIVEWAY - BITUMINOUS
-  DRIVEWAY - CONCRETE
-  SODDING TYPE LAWN

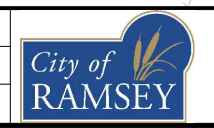
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






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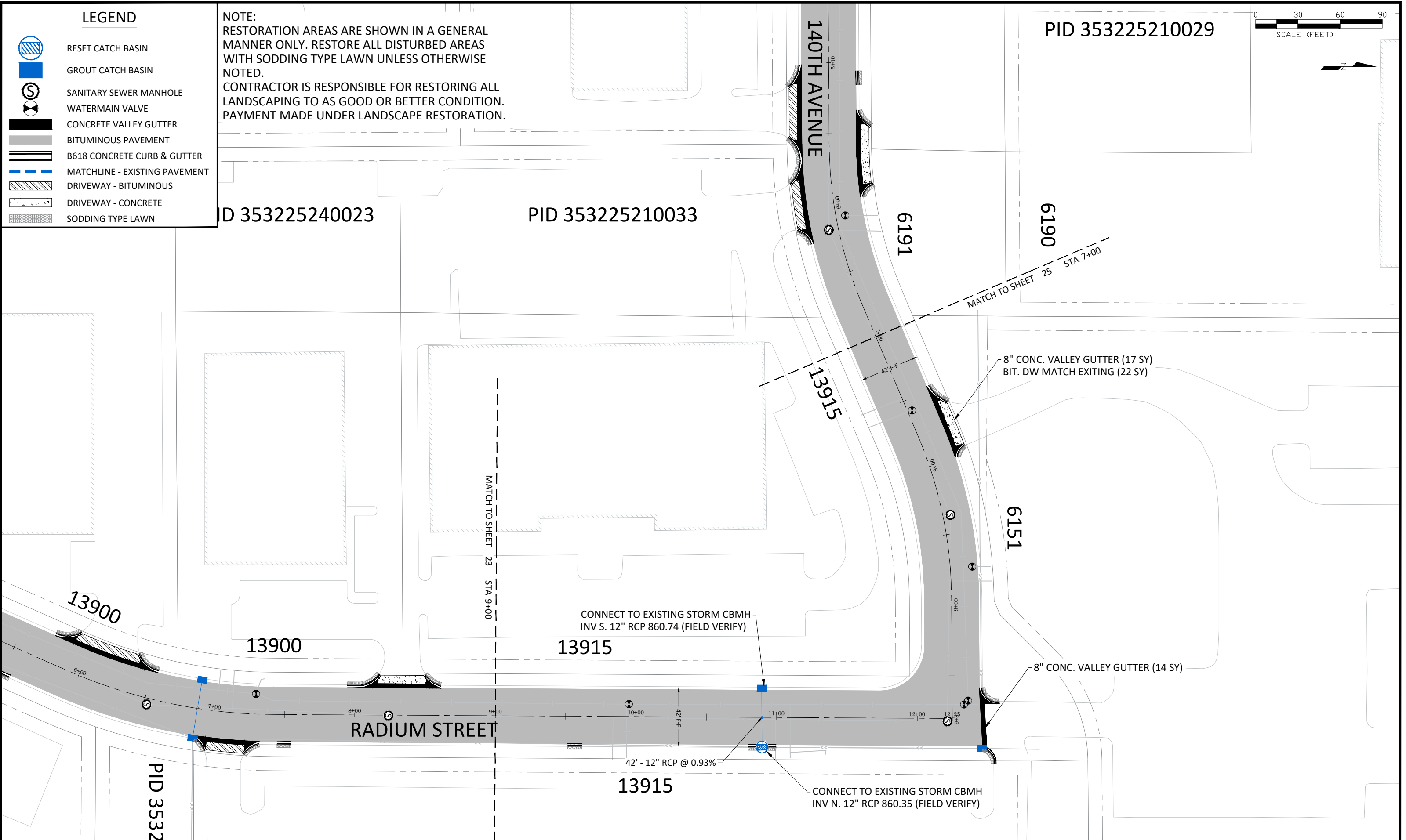
STREET IMPROVEMENTS
RADIUM STA. 0+00 TO 9+00

BUSINESS PARK 95 STREET RECONSTRUCTIONS
CITY PROJECT NO. 21-03
CITY OF RAMSEY, MINNESOTA

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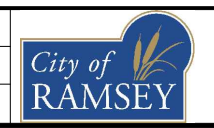
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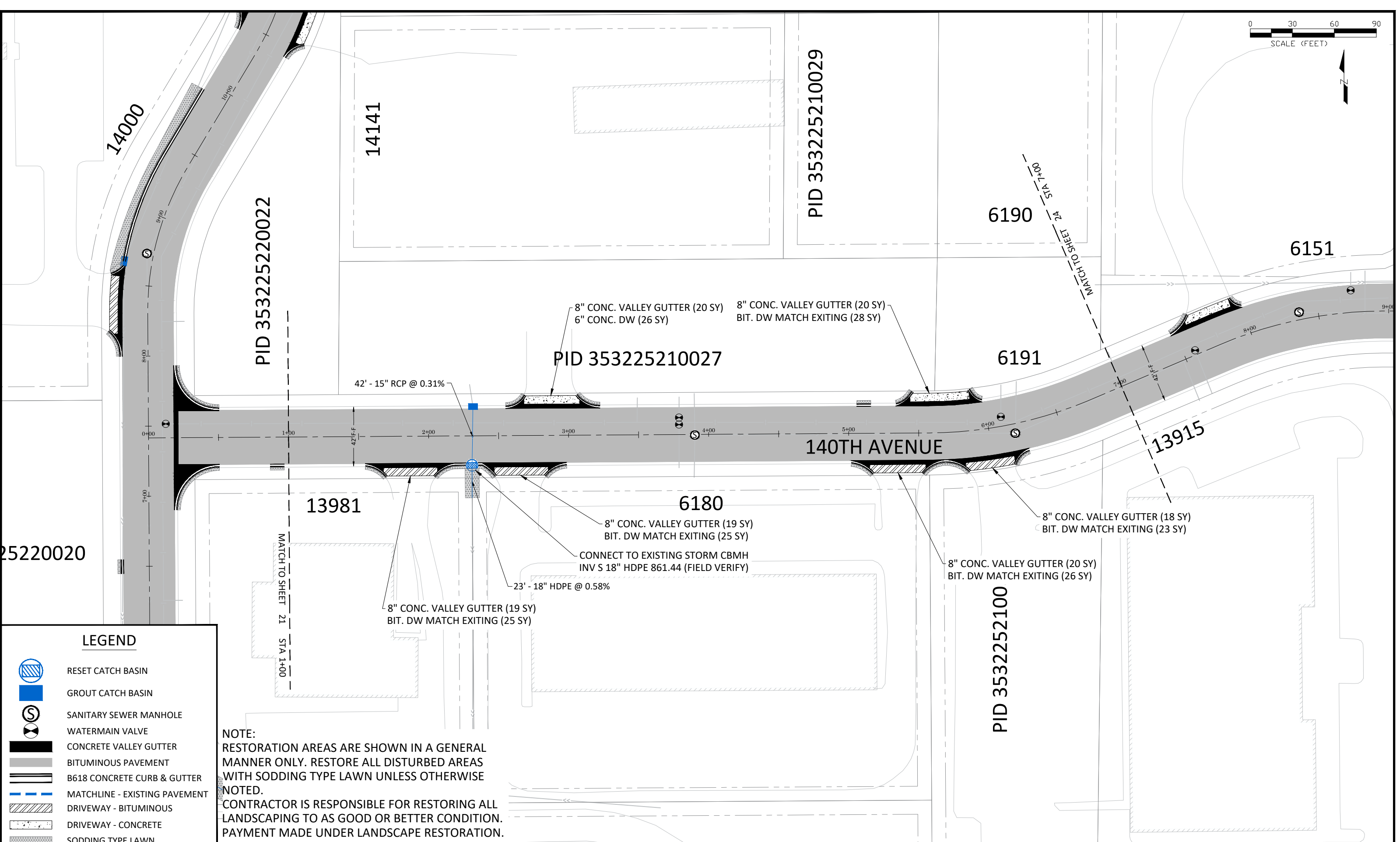
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

CITY OF RAMSEY
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STREET IMPROVEMENTS
 RADIUM 9+00 TO 140TH 7+00

BUSINESS PARK 95 STREET RECONSTRUCTIONS
 CITY PROJECT NO. 21-03
 CITY OF RAMSEY, MINNESOTA



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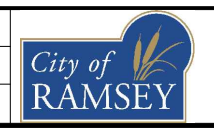
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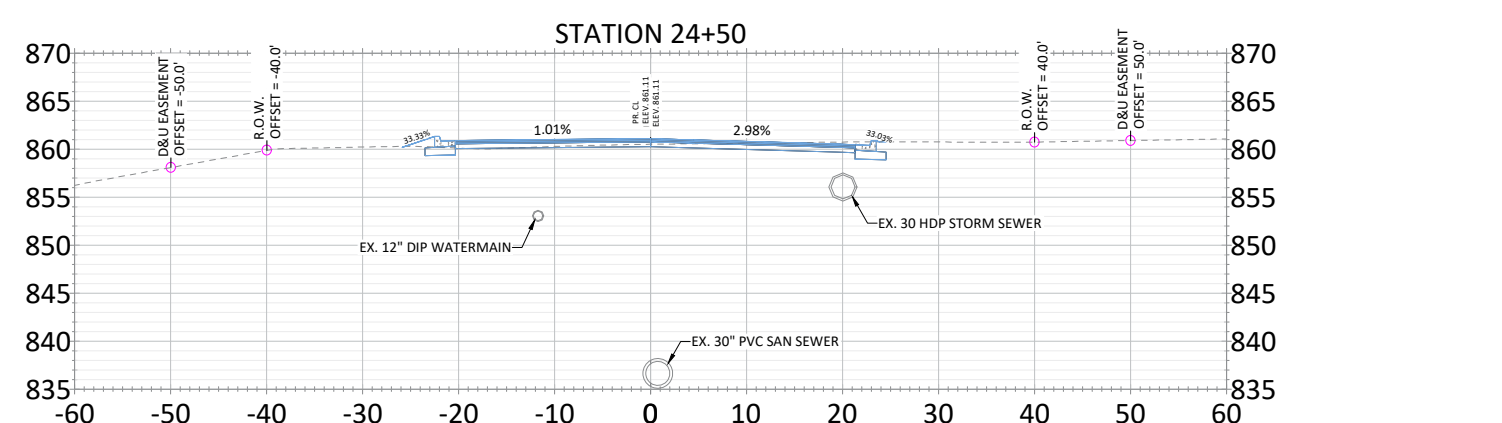
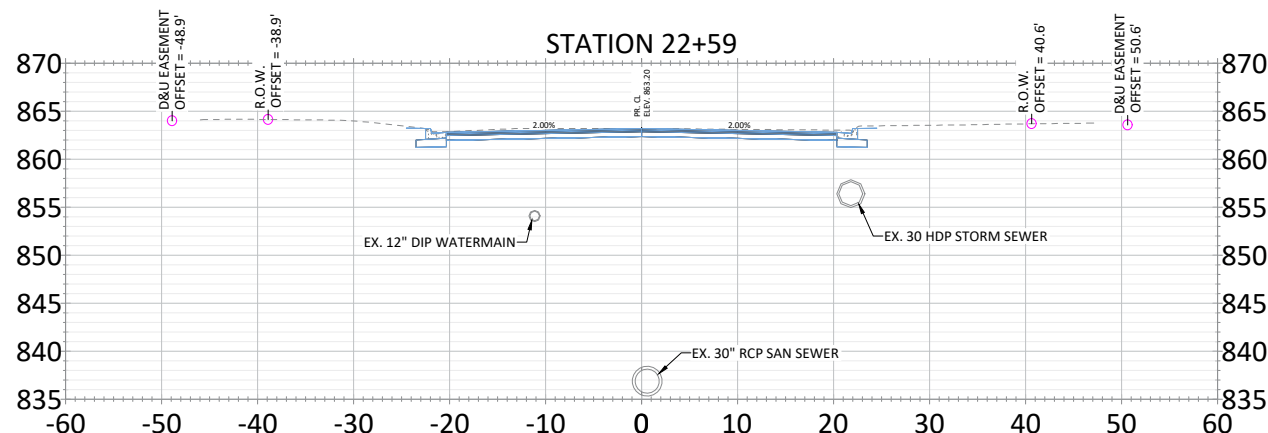
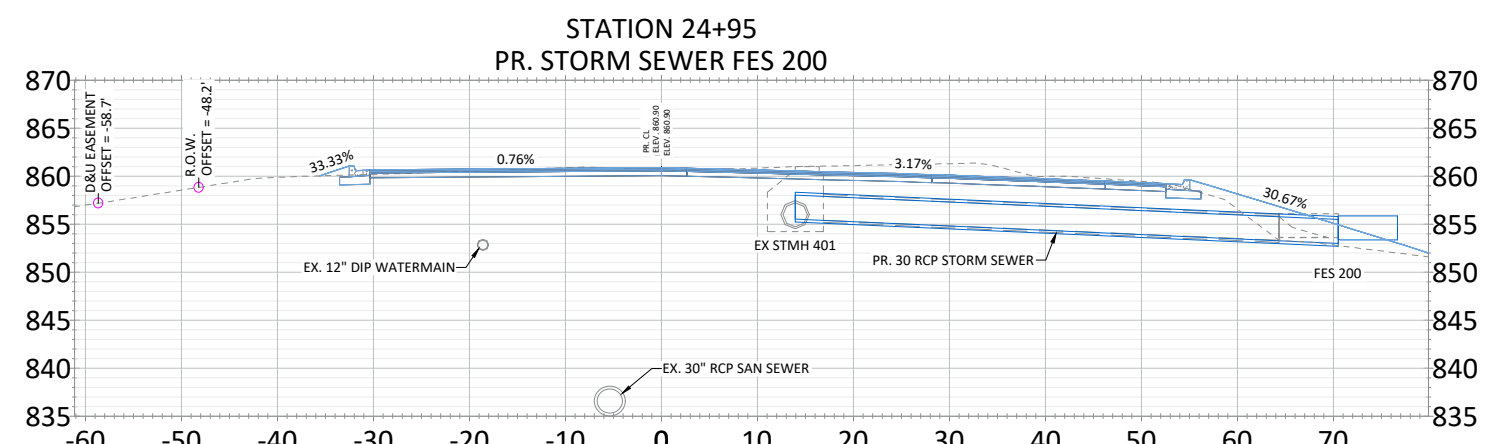
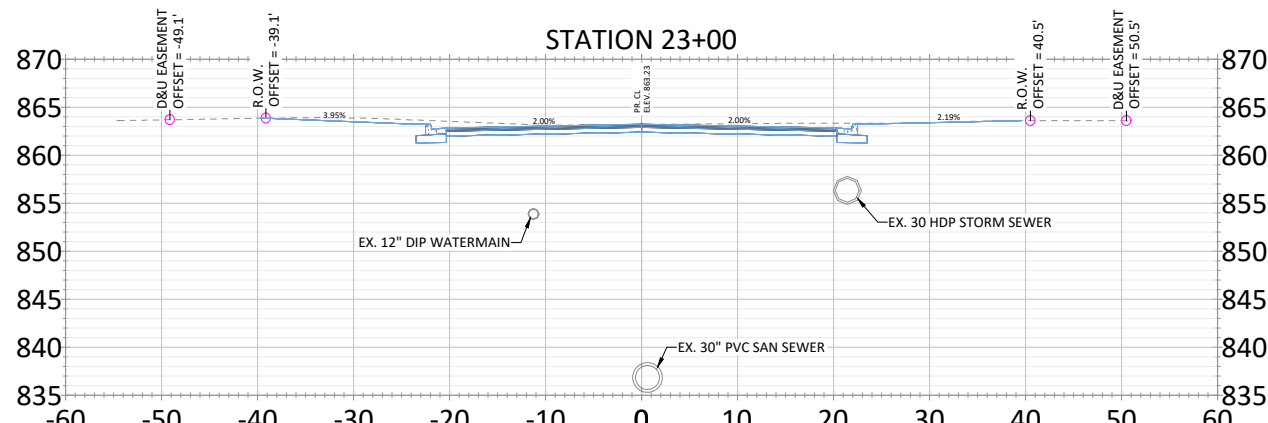
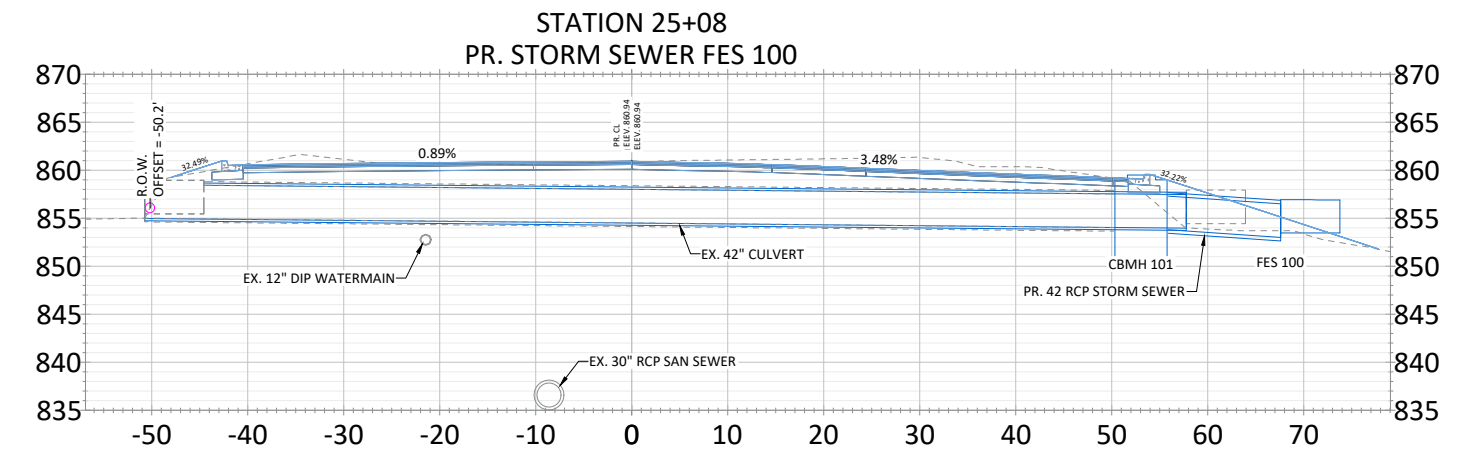
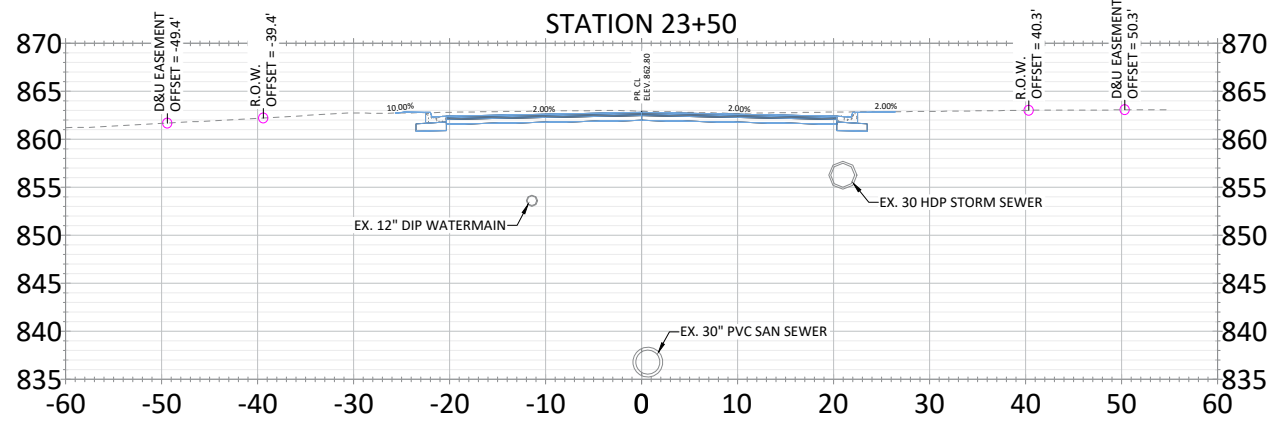
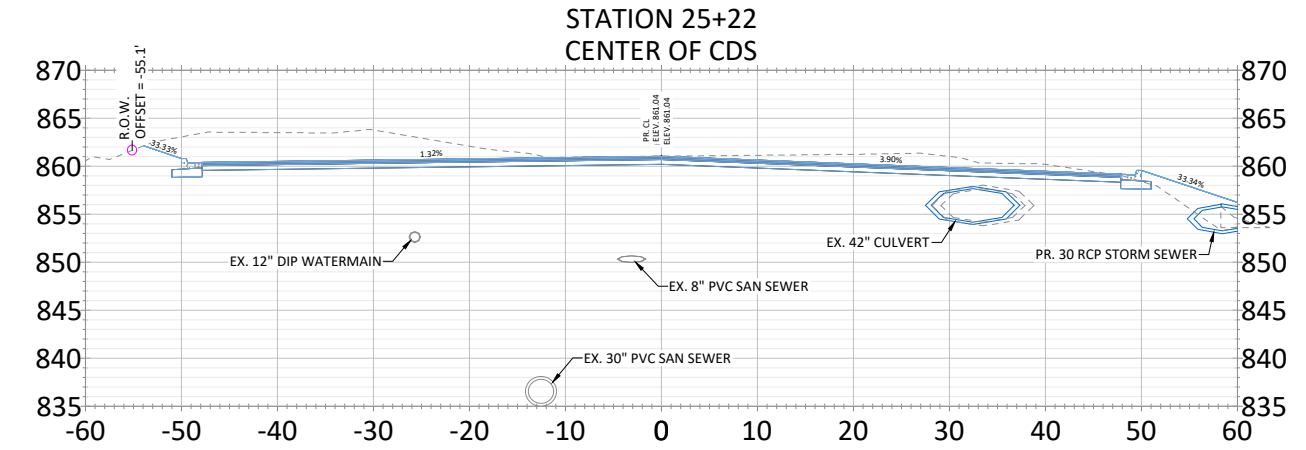
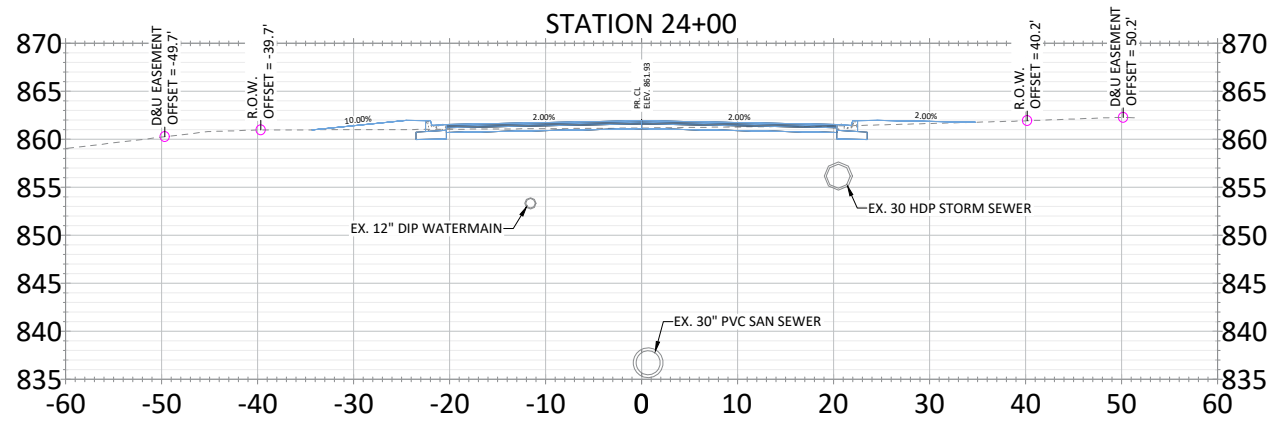
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STREET IMPROVEMENTS
140TH STA. 0+00 TO 7+00

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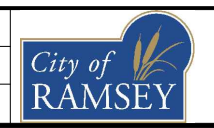
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ALT A MCKINLEY CDS - CROSS SECTIONS

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