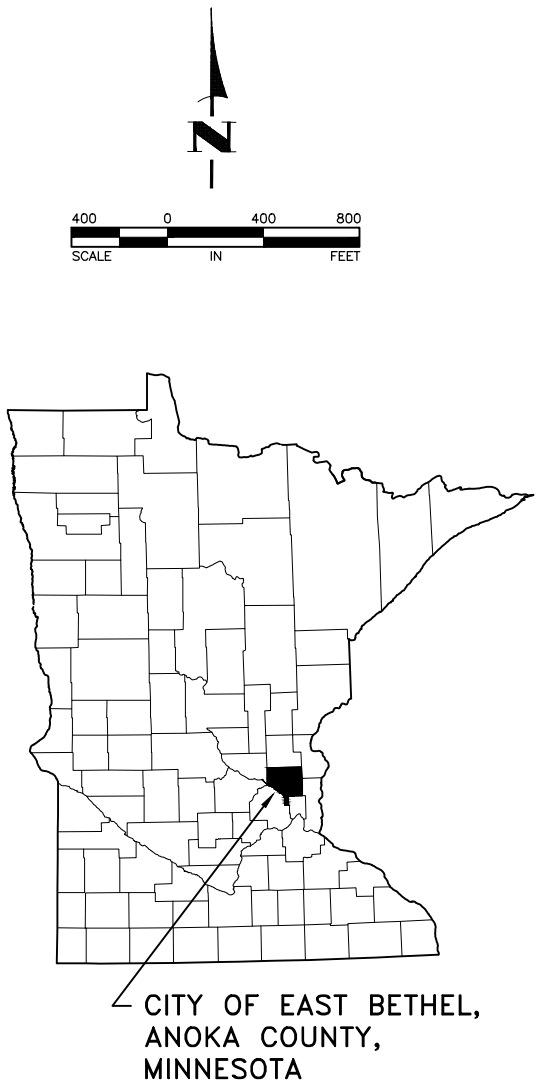
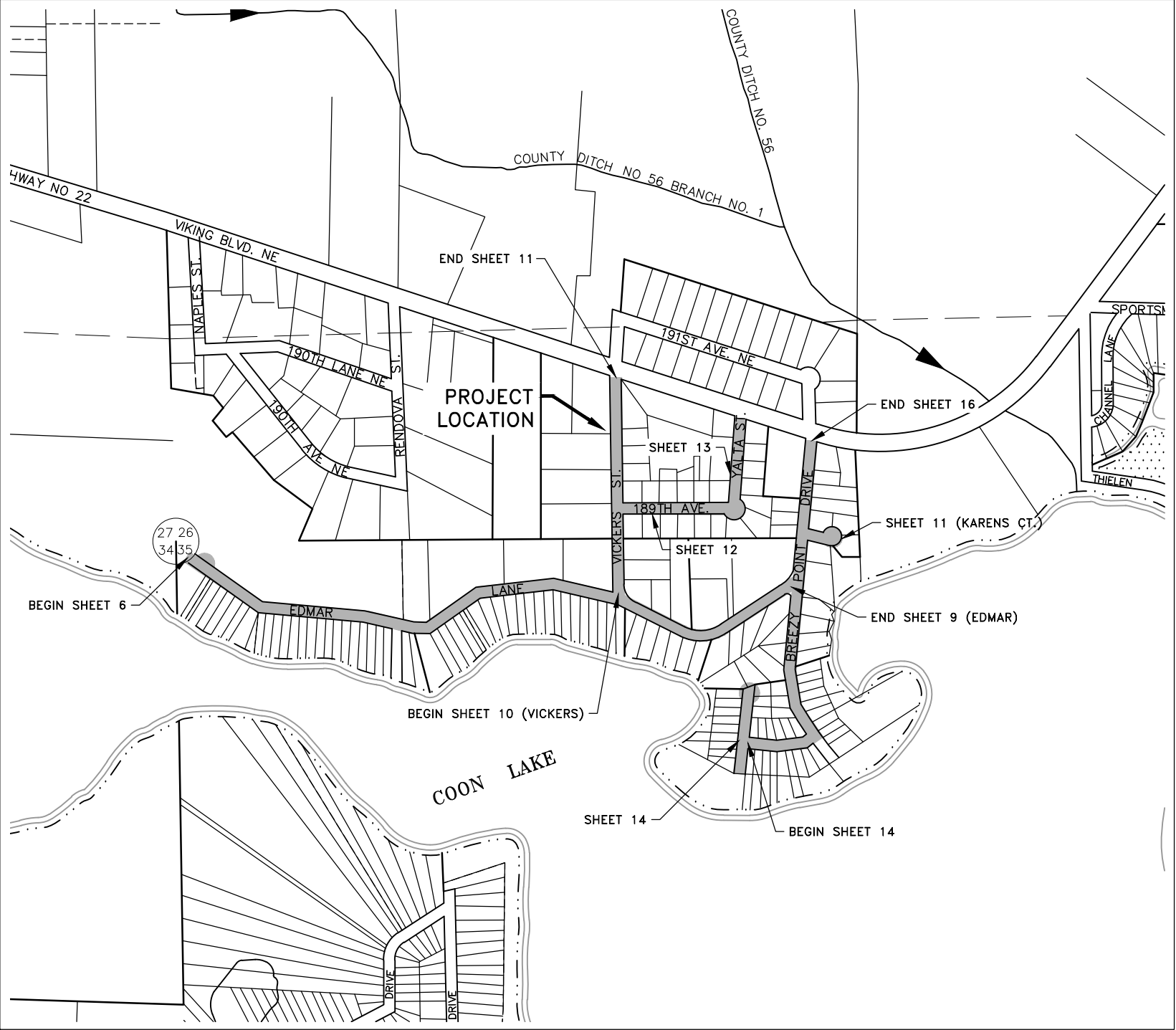


2024 STREET SURFACE IMPROVEMENT PROJECT

CITY OF EAST BETHEL



GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL APPLY.

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 LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

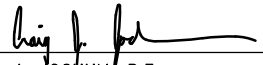
ALL REQUIREMENTS OF THE PROJECT MANUAL FOR THE 2024 STREET SURFACE IMPROVEMENT PROJECT.

SHEET INDEX

THIS PLAN CONTAINS 21 SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES, SCHEDULES AND CONSTRUCTION NOTES
3	TYPICAL SECTIONS AND DETAILS
4-5	DETAILS
6-9	EDMAR LANE - CONSTRUCTION PLANS
10-11	VICKERS STREET AND KARENS COURT - CONSTRUCTION PLANS
12	189TH AVENUE - CONSTRUCTION PLANS
13	YALTA STREET - CONSTRUCTION PLANS
14-16	BREEZY POINT DRIVE - CONSTRUCTION PLANS
17	EDMAR LANE - STORM SEWER PLAN AND PROFILE
18	BREEZY POINT DRIVE - STORM SEWER PLAN AND PROFILE
19	TRAFFIC CONTROL PLAN
X1-X2	CROSS SECTIONS

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.


CRAIG J. JOCHUM, P.E.
HAKANSON ANDERSON
DESIGN ENGINEER

23461 DATE 2/23/24
LIC. NO.

DATE	REVISION

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

Mar 03, 2024 -- 3:52pm
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GENERAL CONSTRUCTION NOTES:

1. EXCEPT FOR THE FOUR MAILBOXES NOTED ON BREEZY POINT DRIVE FOR RELOCATION, SALVAGING AND INSTALLING MAILBOXES OR SIGNS IF REQUIRED FOR CONSTRUCTION SHALL BE INCIDENTAL.
2. CONTRACTOR SHALL TAPER/RAMP THE MILL AT ALL MATCH POINTS. ON THE DAY THE PAVEMENT WILL BE CONSTRUCTED AT EACH MATCH POINT THE CONTRACTOR SHALL PROVIDE A STRAIGHT PERPENDICULAR MILL AND REMOVE THE TAPER/RAMP. TAPERING/RAMPING AND PROVIDING A PERPENDICULAR MILL AT ALL MATCH POINTS SHALL BE INCIDENTAL.
3. ALL DISTURBED AREAS AT REMOVAL LOCATIONS AND DRIVEWAYS SHALL BE SEEDED, FERTILIZED AND MULCHED WITH HYDRAULIC BONDED FIBER MATRIX AT THE RATES SHOWN ON THE BASIS OF ESTIMATED QUANTITIES. CONTRACTOR SHALL SALVAGE AND REPLACE ALL EXISTING TOPSOIL. REMOVAL AND DISPOSAL OF EXISTING MATERIALS AND SOIL SHALL BE INCIDENTAL. SALVAGING TOPSOIL SHALL BE INCIDENTAL. TOPSOIL FURNISHED AND INSTALLED TO MATCH NEW SURFACES AND CURB, AS DIRECTED BY THE ENGINEER, SHALL BE PAID PER ITEM 2574--COMMON TOPSOIL BORROW.
4. BITUMINOUS AND CONCRETE ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH MN/DOT SPEC. 2104.
5. PERFORMANCE GRADE (PG) ASPHALT BINDER PG 58S--28, SPEC. 3151, SHALL BE USED FOR ALL BITUMINOUS MIXES IN THIS PROJECT, SPECIFIC PG GRADES SHALL BE STATED IN THE SPECIAL PROVISIONS AND AT THE END OF THE MIX DESIGNATION NUMBER SHOWN ON THE TYPICAL SECTION.
6. THE BITUMINOUS MIXTURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS 2360 AND 3139.
7. CONTRACTOR SHALL SWEEP STREETS PRIOR TO PLACING ANY PATCHING MATERIAL AND PRIOR TO PLACING THE WEARING COURSE. THIS WORK SHALL BE INCIDENTAL.
8. CONTRACTOR SHALL TAPER THE BITUMINOUS OVERLAYS TO MATCH THE EXISTING BITUMINOUS FLUMES UNLESS SHOWN ON THE PLANS FOR REMOVAL. THIS WORK SHALL BE INCIDENTAL.
9. ANY DEWATERING REQUIRED TO COMPLETE THE WORK SHALL BE INCIDENTAL.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL IN LOCATES AND COORDINATE WITH THE SMALL UTILITIES (GAS, PHONE, ELECTRIC, ETC.) AS REQUIRED TO COMPLETE THE WORK.
11. ALL MILLING SHALL BE PAID PER ITEM 2232--MILL BITUMINOUS SURFACE AND IS NOT DEPTH DEPENDANT.
12. ALL DISTURBED AREAS SHALL BE RESTORED WITH TYPE 1 COMMERCIAL FERTILIZER, SEED MIX 25--131, AND HYDRAULIC FIBER BONDED MATRIX AT THE RATES SHOWN ON THE BASIS OF ESTIMATED QUANTITIES. THIS WORK SHALL BE MEASURED BY THE SQUARE YARD AND PAID PER ITEM 2575--SITE RESTORATION.
13. CONTRACTOR SHALL MATCH ALL NEW GRAVEL DRIVEWAYS TO THE OVERLAY WITH AGGREGATE BASE CLASS 5. DRIVEWAYS THAT HAVE LIMESTONE, GRANITE, OR OTHER SPECIAL SURFACES, CONTRACTOR SHALL SALVAGE EXISTING GRAVEL TO PLACE ON TOP OF AGGREGATE BASE CLASS 5 TO PROVIDE A UNIFORM SURFACE. SALVAGING EXISTING GRAVEL SHALL BE INCIDENTAL.
14. CONTRACTOR SHALL REMOVE ALL SOIL, VEGETATION, AND DEBRIS FROM THE EXISTING BITUMINOUS SURFACE AND SWEEP PRIOR TO OVERLAYING THE PAVEMENT. THIS WORK SHALL BE INCIDENTAL.

ESTIMATED QUANTITIES

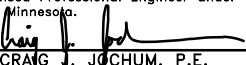
ITEM NO.	Mn/DOT SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	EDMAR LANE	VICKERS STREET	KARENS COURT	189TH AVENUE	YAL TA STREET	BREEZY POINT DRIVE
					TOTAL ESTIMATED QUANTITY	TOTAL ESTIMATED QUANTITY	TOTAL ESTIMATED QUANTITY	TOTAL ESTIMATED QUANTITY	TOTAL ESTIMATED QUANTITY	TOTAL ESTIMATED QUANTITY
BASE BID										
1	2021.501	MOBILIZATION	LUMP SUM	1	0.34	0.10	0.03	0.08	0.07	0.38
2	2104.503	SAWING CONCRETE PAVEMENT - FULL DEPTH	LIN FT	860	611	136	17		20	76
3	2104.503	SAWING BITUMINOUS PAVEMENT - FULL DEPTH	LIN FT	2462	905	406	17	64	123	947
4	2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	339	241					98
5	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	914	377	170		13	23	331
6	2104.504	REMOVE BITUMINOUS PAVEMENT - STREET	SQ YD	925						925
7	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	411	230	108	22		10	41
8	2106.507	EXCAVATION - SUBGRADE (P)	CU YD	221						221
9	2106.603	MINOR GRADE - SWALE	LIN FT	215			215			
10	2106.603	MINOR GRADE - DITCH	LIN FT	283	283					
11	2211.509	AGGREGATE BASE CLASS 5	TON	680	150	80	10	10	10	420
12	2211.604	SUBGRADE PREPARATION (P)	SQ YD	925						925
13	2232.604	MILL BITUMINOUS SURFACE	SQ YD	2140	534	30	92	666	448	370
14	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLONS	1827	787	253	65	127	117	478
15	2360.504	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B) 3.0" THICK	SQ YD	909	377	170		13	23	326
16	2360.509	TYPE SP 4.5 WEARING COURSE MIXTURE (2,B)	TON	31	10	6	3	3	3	6
17	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B)	TON	2525	1100	350	90	175	160	650
18	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (2,B)	TON	125						125
19	2501.502	15" CS PIPE APRON	EACH	2	2					
20	2501.502	18" CS PIPE APRON	EACH	1	1					
21	2501.503	15" CPEP PIPE CULVERT	LIN FT	40	40					
22	2501.503	15" CPEP PIPE SEWER - PERFORATED	LIN FT	215						215
23	2501.503	18" CPEP PIPE SEWER - PERFORATED	LIN FT	229	229					
24	2501.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	107	107					
25	2506.502	CASTING ASSEMBLY	EACH	4						4
26	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	3						2.6
27	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	LIN FT	15						14.9
28	2511.507	RANDOM RIPRAP CLASS II (FIELD STONE)	CU YD	5	5					
29	2531.503	CONCRETE CURB AND GUTTER DESIGN B418	LIN FT	476						476
30	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ FT	3696	2070	972	195		90	369
31	2540.602	RELOCATE MAIL BOX	EACH	4						4
32	2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.34	0.10	0.03	0.08	0.07	0.38
33	2573.502	STORM DRAIN INLET PROTECTION	EACH	3						3
34	2573.503	SILT FENCE; TYPE MS	LIN FT	355	355					
35	2574.507	COMMON TOPSOIL BORROW	CU YD	335	120	40	20	25	30	100
36	2575.604	SITE RESTORATION	SQ YD	6705	2847	933	156	436	533	1800
ALTERNATE BID										
37	2104.502	REMOVE CATCH BASIN	EACH	6				2	2	2
38	2301.503	INTEGRANT CURB DESIGN B6	LIN FT	140				40	40	60
39	2301.504	7" CONCRET PAVEMENT	SQ FT	189				54	54	81
40	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	7				2	2	3
41	2506.502	CASTING ASSEMBLY	EACH	7				2	2	3
42	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	12					6	6.1
43	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	LIN FT	11				5.8		4.8
44	2573.502	STORM DRAIN INLET PROTECTION	EACH	7				2	2	3

BASIS OF ESTIMATED QUANTITIES	
AGGREGATE BASE CLASS 5	100 lbs/yd ² /in
NON WEARING BITUMINOUS COURSE MIXTURE	110 lbs/yd ² /in
WEARING COURSE BITUMINOUS MIXTURE	110 lbs/yd ² /in
BITUMINOUS MATERIAL FOR TACK COAT - NEW ASPHALT	0.06 gal/yd ²
BITUMINOUS MATERIAL FOR TACK COAT - OLD ASPHALT	0.07 gal/yd ²
BITUMINOUS MATERIAL FOR TACK COAT - MILLED ASPHALT	0.08 gal/yd ²
HYDRAULIC FIBER BONDED MATRIX	3500 lbs/acre
SEED MIX 25-131	220 lbs/acre
TYPE 1, COMMERCIAL FERTILIZER	300 lbs/acre

STANDARD PLATES	
THESE STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY	
PLATE NO.	DESCRIPTION
3133D	RIPRAP AT RCP OUTLETS
4026A	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
4108F	ADJUSTING RINGS FOR CATCH BASINS AND MANHOLES
4149C	GRATE CASTING FOR CATCH BASIN - CASTING NO. 810
4160D	CURB BOX CASTING FOR CATCH BASIN - CASTING NO. 823A AND 833A
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)
7111J	INSTALLATION OF CATCH BASIN CASTINGS (CONCRETE CURB AND GUTTER)
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)

DATE	REVISION

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CRAIG J. JOCHUM, P.E.
Date 2/23/24 Lic. No. 23461

DESIGNED BY: CJJ
DRAWN BY: DMS
CHECKED BY: CJJ



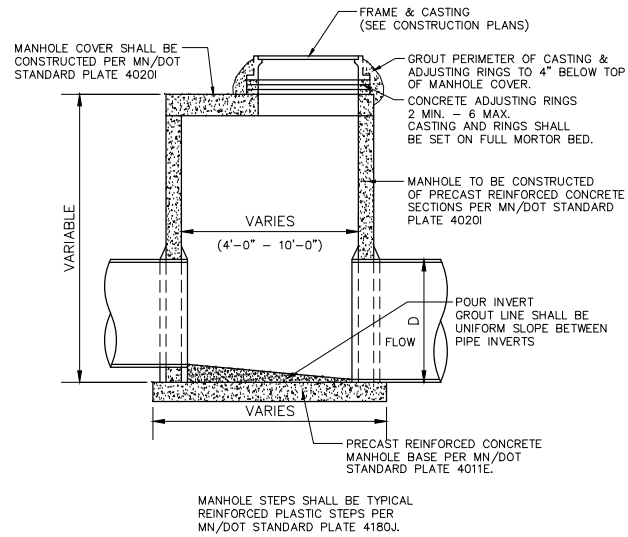
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3601 Thurston Ave., Anoka, Minnesota 55303
763-427-5860 FAX 763-427-0520
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2024 STREET SURFACE IMPROVEMENT PROJECT

ESTIMATED QUANTITIES, SCHEDULES AND CONSTRUCTION NOTES

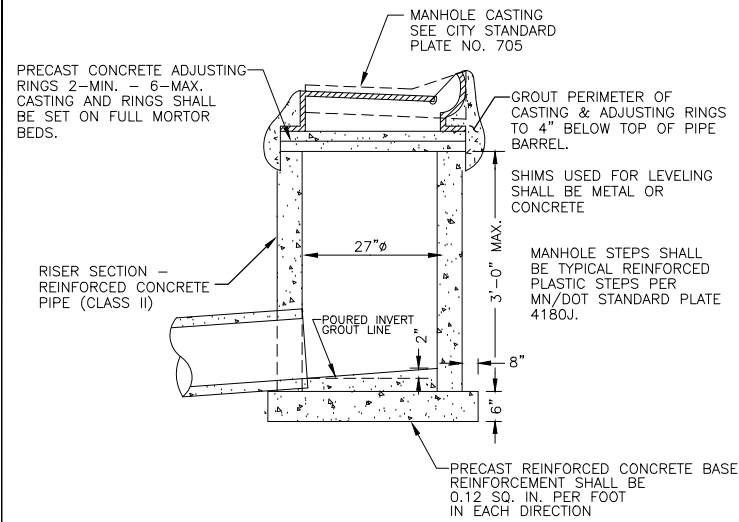
CITY OF EAST BETHEL

SHEET 2 OF 19 SHEETS



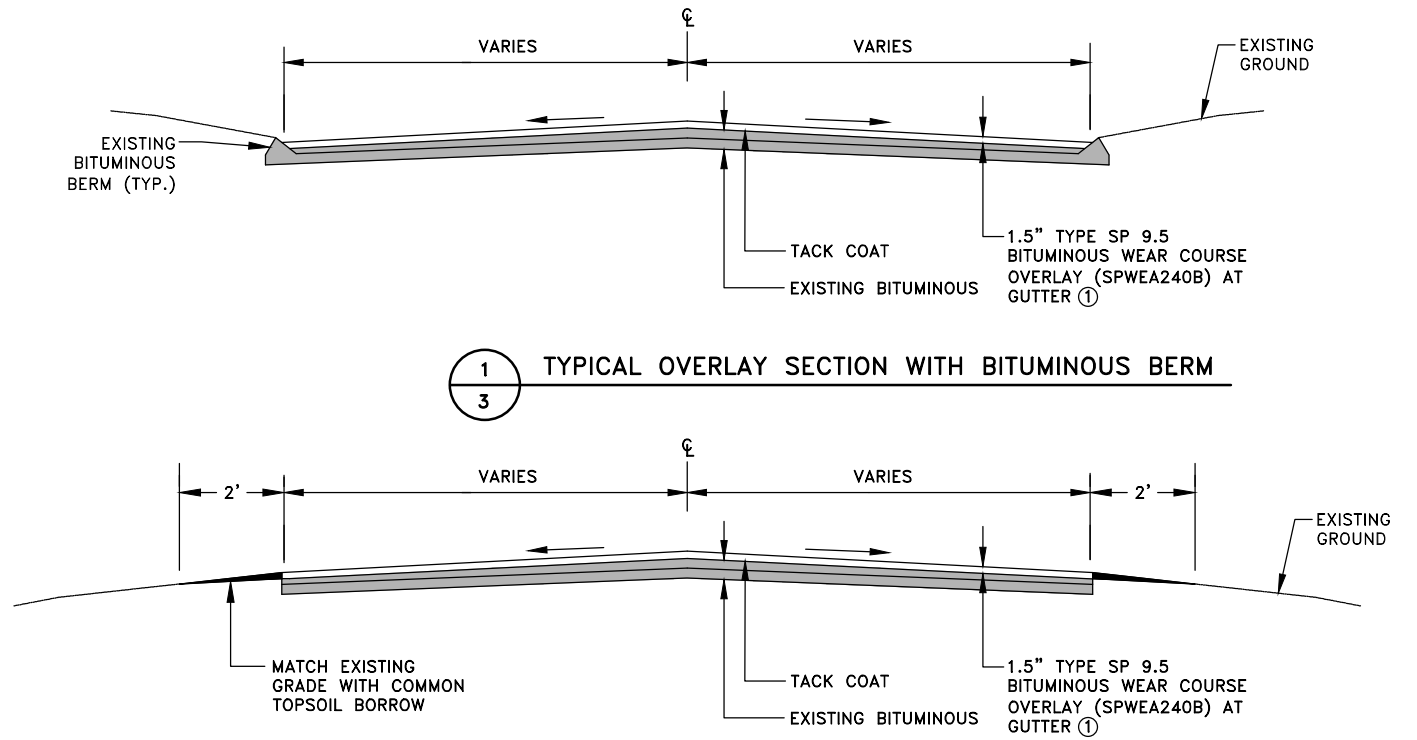
SLAB TOP MANHOLE
(STORM SEWER)
4'-0" THROUGH 10'-0" INSIDE DIAMETER
NO SCALE

APPROVED 3-02-05		CITY OF EAST BETHEL	STANDARD PLATE No. 400
REVISED			



SHALLOW CATCH BASIN
NO SCALE

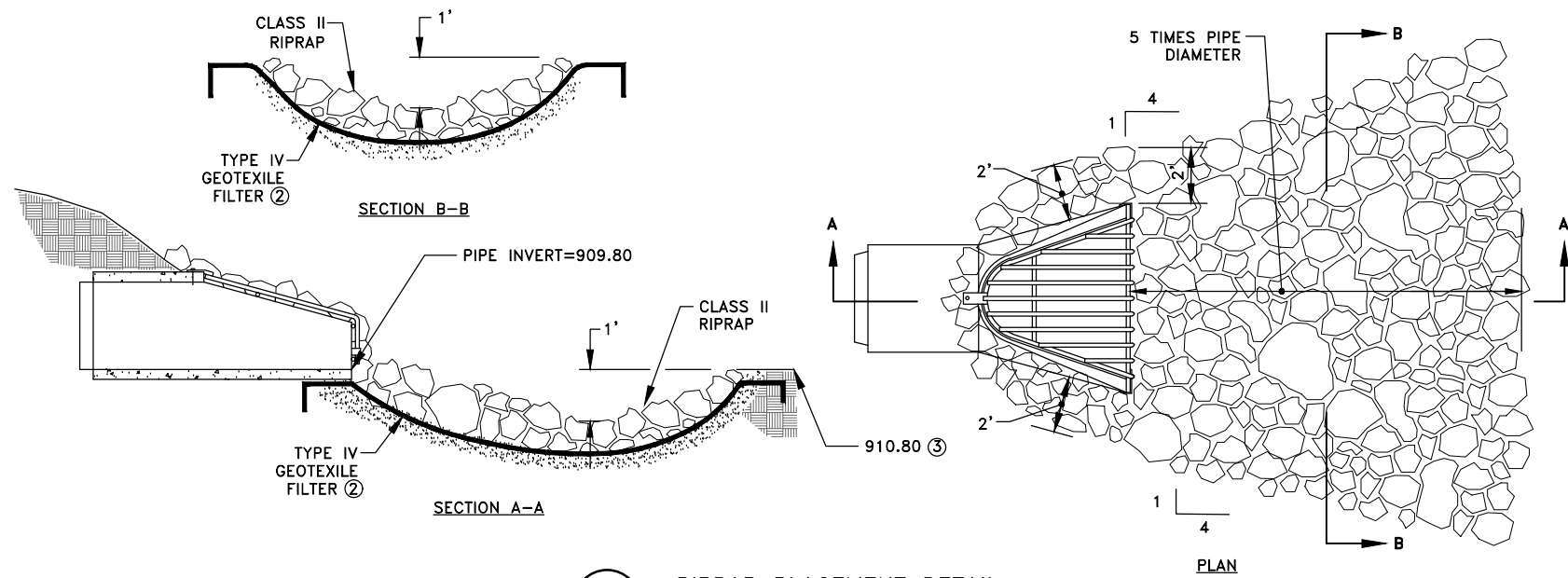
APPROVED 3-02-05		CITY OF EAST BETHEL	STANDARD PLATE No. 401
REVISED			



1
3
TYPICAL OVERLAY SECTION WITH BITUMINOUS BERM

2
3
TYPICAL OVERLAY SECTION WITH SHOULDER

- REFERENCE NOTE:
- 1 PRIOR TO CONSTRUCTION OF THE BITUMINOUS OVERLAY THE CONTRACTOR SHALL PATCH ALL PAVEMENT POTHOLES THAT ARE 1/2 INCH OR DEEPER. PATCH WILL BE PAID BY ITEM 2360 TYPE 4.75 BITUMINOUS MIXTURE FOR PATCHING. IN LARGE AREAS THAT HAVE POT HOLES, MIX SHALL BE SPREAD BY GRADER, SKID STEER OR OTHER APPROPRIATE EQUIPMENT. PATCH MATERIAL SHALL BE COMPACTED WITH A STEEL DRUM ROLLER. PATCH SHALL BE TACK COATED PRIOR TO PLACEMENT. TACK COAT WILL BE PAID PER THE BID ITEM.
 - 2 GEOTEXTILE FILTER SHALL BE INCIDENTAL.
 - 3 GRADE RIPRAP SO INFILTRATION PIPE RETAINS 1 FOOT OF WATER.



3
3
RIPRAP PLACEMENT DETAIL
NO SCALE

DATE	REVISION

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CRAIG J. JOCHUM, P.E.
Date 2/23/24 Lic. No. 23461

DESIGNED BY: CJJ
DRAWN BY: DMS
CHECKED BY: CJJ



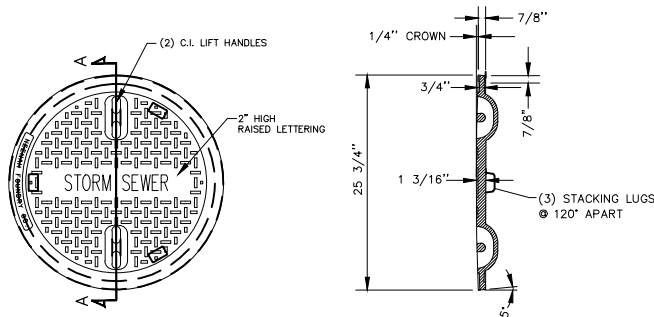
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2024 STREET SURFACE IMPROVEMENT
PROJECT

TYPICAL SECTIONS AND DETAILS
CITY OF EAST BETHEL

SHEET
3
OF
19
SHEETS

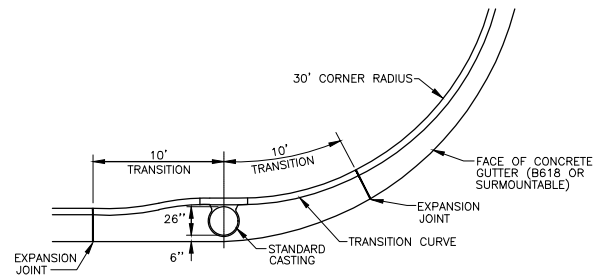
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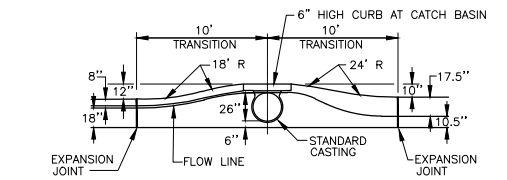
NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NO PAINT
WEIGHT: 122#

MANHOLE LID
NO SCALE

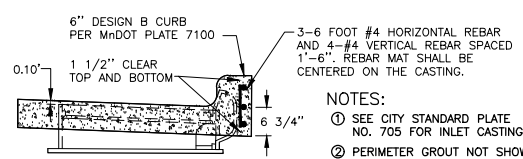
APPROVED 3-02-05 REVISED		CITY OF EAST BETHEL	STANDARD PLATE No. 311A
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PLAN (RADIUS CURB)

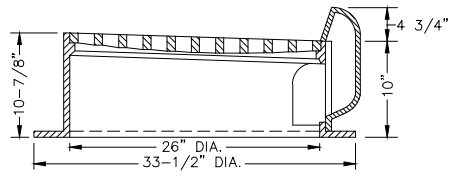
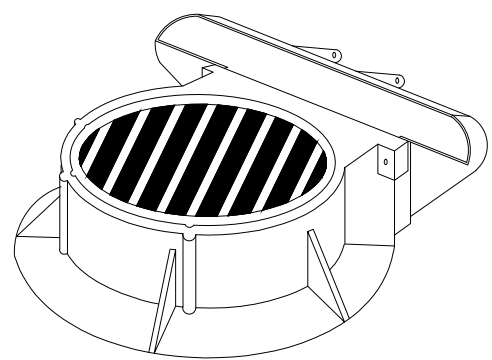


PLAN (STRAIGHT CURB)



CURB AND GUTTER CONSTRUCTION AT CATCH BASIN
NO SCALE

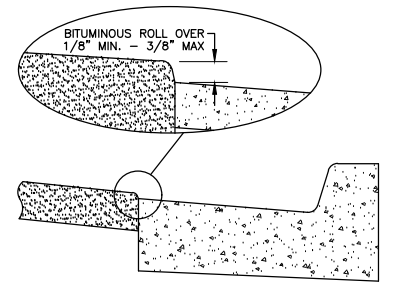
APPROVED 3-02-05 REVISED		CITY OF EAST BETHEL	STANDARD PLATE No. 703
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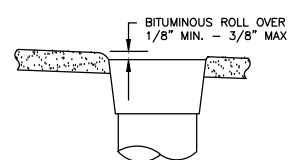
INLET ASSEMBLY
NEENAH FOUNDRY NO. R-3250-1 OR APPROVED EQUAL.
SEE CITY STANDARD PLATE 703 FOR CURB & GUTTER CONSTRUCTION AT CATCH BASIN.
ESS BROTHERS CASTING 801M MODIFIED IS AN APPROVED EQUAL.

INLET CASTING
NO SCALE

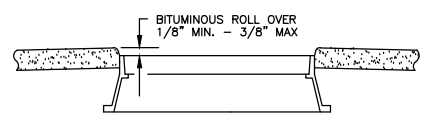
APPROVED 3-02-05 REVISED		CITY OF EAST BETHEL	STANDARD PLATE No. 705
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PAVING AT CURB DETAIL
NO SCALE

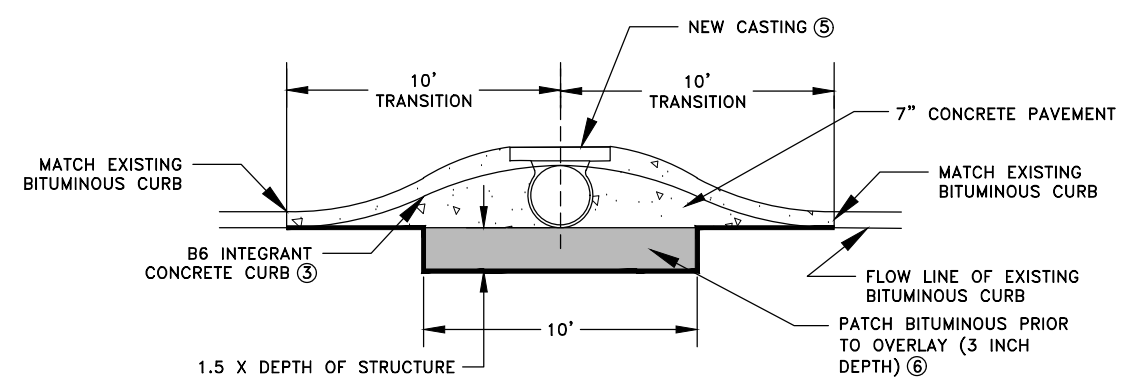


PAVING AT VALVE BOX DETAIL
NO SCALE

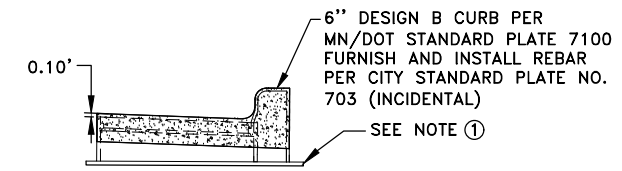


PAVING AT MANHOLE DETAIL
NO SCALE

APPROVED 3-02-05 REVISED		CITY OF EAST BETHEL	STANDARD PLATE No. 706
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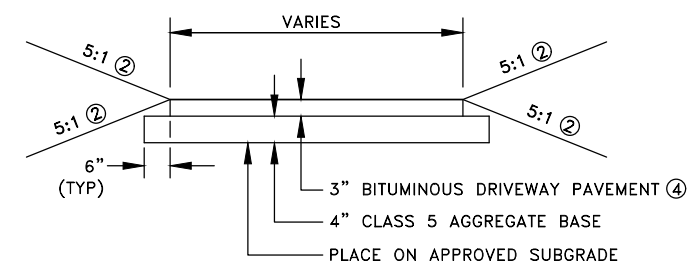


PLAN VIEW - CIRCULAR CASTING INLET

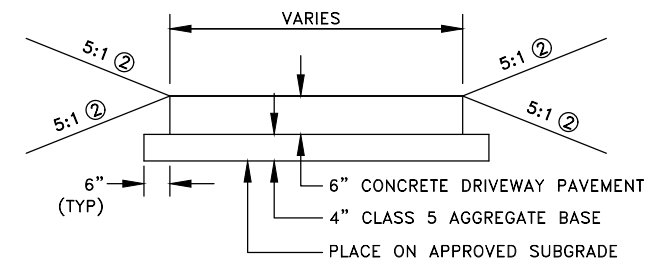


CURB PROFILE (DESIGN B CURB)

1 CASTING CONSTRUCTION DETAIL (PIPE TO REMAIN) 7
NO SCALE



2 BITUMINOUS DRIVEWAY SECTION
NO SCALE



3 CONCRETE DRIVEWAY SECTION
NO SCALE

- REFERENCE NOTES:
- ① GROUT PERIMETER OF CATCH BASIN AND ADJUSTING RINGS PER MN/DOT STANDARD PLATE 4026.
 - ② RESTORE ALL DISTURBED AREAS PER THE GENERAL NOTES ON SHEET 2. MATCH NEW DRIVEWAY SURFACES TO EXISTING GRADE WITH COMMON TOPSOIL BORROW.
 - ③ PAID PER ITEM 2301-INTEGRANT CURB DESIGN B6.
 - ④ BITUMINOUS DRIVEWAY PAVEMENT SHALL BE PAID PER ITEM 2360-TYPE SP 9.5 WEARING COURSE MIXTURE (2;B) 3.0\"

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.

CRAIG J. JOCHUM, P.E.
Date 2/23/24 Lic. No. 23461

DESIGNED BY:
CJJ
DRAWN BY:
DMS
CHECKED BY:
CJJ

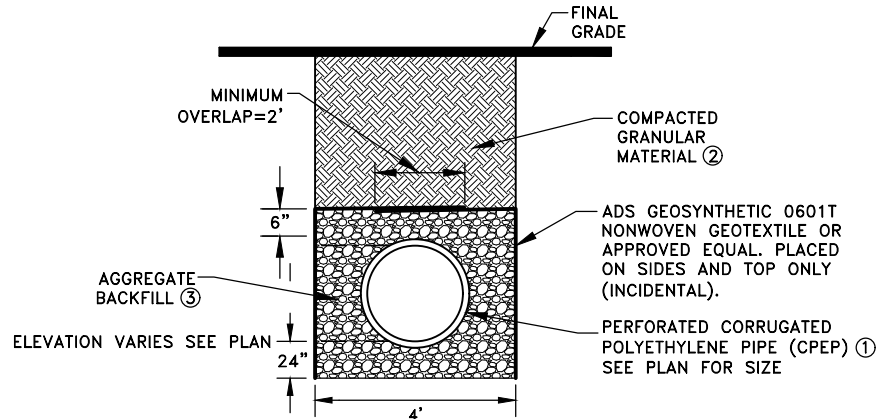


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2024 STREET SURFACE IMPROVEMENT
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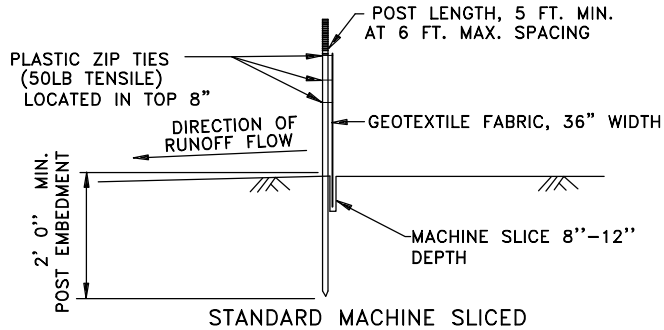
DETAILS
CITY OF EAST BETHEL

SHEET
4
OF
19
SHEETS



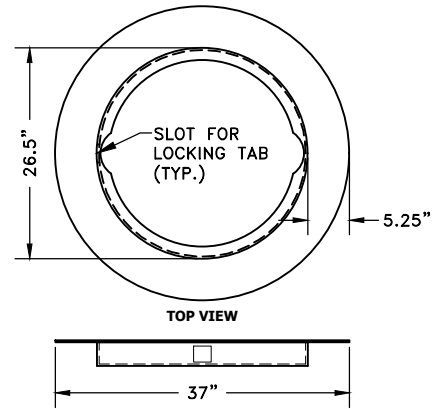
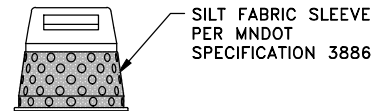
1
5

INFILTRATION TRENCH

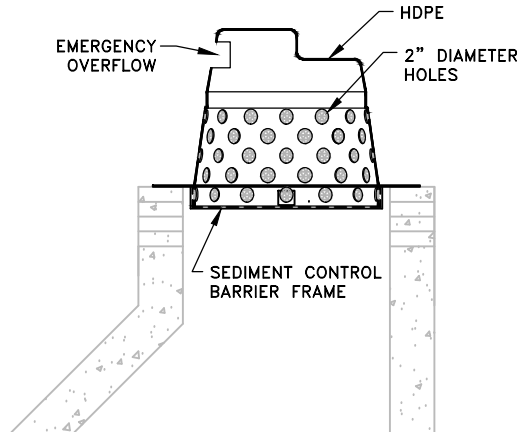


2
5

SILT FENCE DETAILS



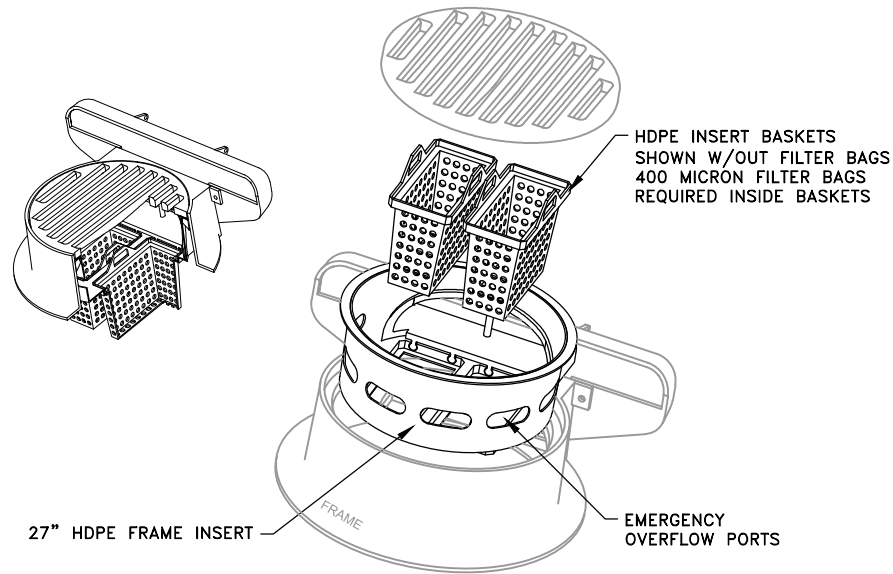
SEDIMENT CONTROL BARRIER FRAME
(27" SHOWN)



3
5

SEDIMENT CONTROL BARRIER FOR
CATCH BASINS AND MANHOLES
STORM DRAIN INLET PROTECTION

STORM SEWER SCHEDULE																							
STRUCTURE NO.		BID SCHEDULE	STRUCTURE LOCATION			DRAINAGE STRUCTURES					FLOWLINE OR APRON INVERT ELEVATION	INVERT ELEVATION		12" RCP CL V LIN FT	15" CPEP PERF. LIN FT	18" CPEP PERF. LIN FT	18" METAL APRON LIN FT	PIPE SLOPE %	INTEGRANT CURB DESIGN B6 LIN FT	CONCRETE PAVEMENT 7.0' SQ YD	CONNECT TO EXISTING STORM SEWER EACH	STORM DRAIN INLET PROTECTION EACH	CLASS II RIPRAP CU YD
FLOWS FROM	FLOWS TO		STREET	STATION	OFFSET	STRUCTURE DIAMETER INCHES	TYPE	CITY PLATE NO. 400 LIN FT	CITY PLATE NO. 401 LIN FT	CASTING/ASSEMBLY													
501	502	BASE	BREEZY POINT DR	16+30	12' R	27	CB		2.5	QTY PLATE NO. 705	913.10	910.56	83					0.50				1	
502	503	BASE	BREEZY POINT DR	15+50	12' R	48	CBMH	2.4		ESS BROTHERS CASTING 801 6.25" LOW PROFILE WITH 823 MOD BACK	912.50	N	910.15	24				0.50				1	
												W	910.16										
503	504	BASE	BREEZY POINT DR	15+50	12' L	48	CBMH	6.7		ESS BROTHERS CASTING 801 6.25" LOW PROFILE WITH 823 MOD BACK	912.50	E	910.03	215				0.00				1	
												S	909.80										
												SUMP	905.80										
504	APRON	BASE	BREEZY POINT DR	13+35	12' L	48	CBMH	5.9		NEENAH R-1733 LID PER CITY PLATE NO. 311A	915.70	N/SW	909.80			228	1	0.00					5
505	506	ALTERNATE	189TH AVENUE	3+34	14' R	48	CBMH	2.9		ESS BROTHERS CASTING 801 6.25" LOW PROFILE WITH 823 MOD BACK	910.50	N	907.58					NA	20	27	1	1	
506	EX APRON	ALTERNATE	189TH AVENUE	3+34	14' L	48	CBMH	2.9		ESS BROTHERS CASTING 801 6.25" LOW PROFILE WITH 823 MOD BACK	910.29	N/S	907.37					NA	20	27	1	1	
507	508	ALTERNATE	YALTA STREET	3+86	14' R	27	CB		3.0	ESS BROTHERS CASTING 801 6.25" LOW PROFILE WITH 823 MOD BACK	910.48	W	FIELD VERIFY					NA	20	27	1	1	
508	EX APRON	ALTERNATE	YALTA STREET	3+86	14' L	27	CB		3.0	ESS BROTHERS CASTING 801 6.25" LOW PROFILE WITH 823 MOD BACK	910.35	E/W	FIELD VERIFY					NA	20	27	1	1	
509	EX APRON	ALTERNATE	BREEZY POINT DR	8+95	14' R	27	CB		2.1	ESS BROTHERS CASTING 801 6.25" LOW PROFILE WITH 823 MOD BACK	909.10	N/S	906.97					NA	20	27	1	1	
510	511	ALTERNATE	BREEZY POINT DR	4+10	14' L	27	CB		4.1	QTY PLATE NO. 705	914.00	E	909.90					NA	20	27	1	1	
511	EX APRON	ALTERNATE	BREEZY POINT DR	4+10	14' R	48	CBMH	4.8		QTY PLATE NO. 705	914.10	W	909.58					NA	20	27	1	1	
TOTALS								25.6	14.7					107	215	228	1		140	189	7	10	5



4
5

DEBRIS COLLECTION DEVICE
FOR CATCH BASINS
STORM DRAIN INLET PROTECTION

- REFERENCE NOTES:
- PIPE SHALL BE PERFORATED PER AASHTO CLASS II PERFORATION PATTERNS. ONE HOLE WITH A DIAMETER OF 0.375 EVERY 45". LONGITUDINAL PERFORATION SPACING SHALL BE 5 INCHES.
 - GRANULAR MATERIAL SHALL BE ON SITE MATERIAL WITH A UNIFIED SOIL CLASSIFICATION OF SP OR SP-SM.
 - AGGREGATE BACKFILL SHALL MEET THE REQUIREMENTS OF MN/DOT 3149.2H. AGGREGATE BACKFILL SHALL BE INCIDENTAL.

Mar 03, 2024 - 3:52pm
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DATE	REVISION

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CRAIG J. JOCHUM, P.E.
Date 2/23/24 Lic. No. 23461

DESIGNED BY:
CJJ

DRAWN BY:
DMS

CHECKED BY:
CJJ



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Civil Engineers and Land Surveyors
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763-427-5860 FAX 763-427-0520
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2024 STREET SURFACE IMPROVEMENT
PROJECT

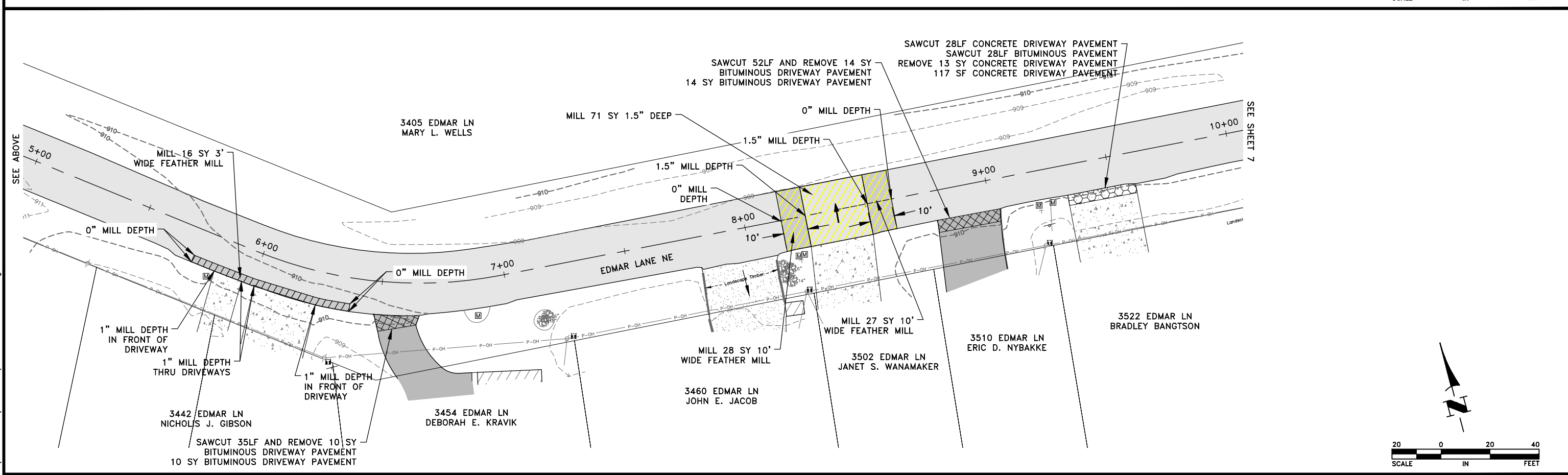
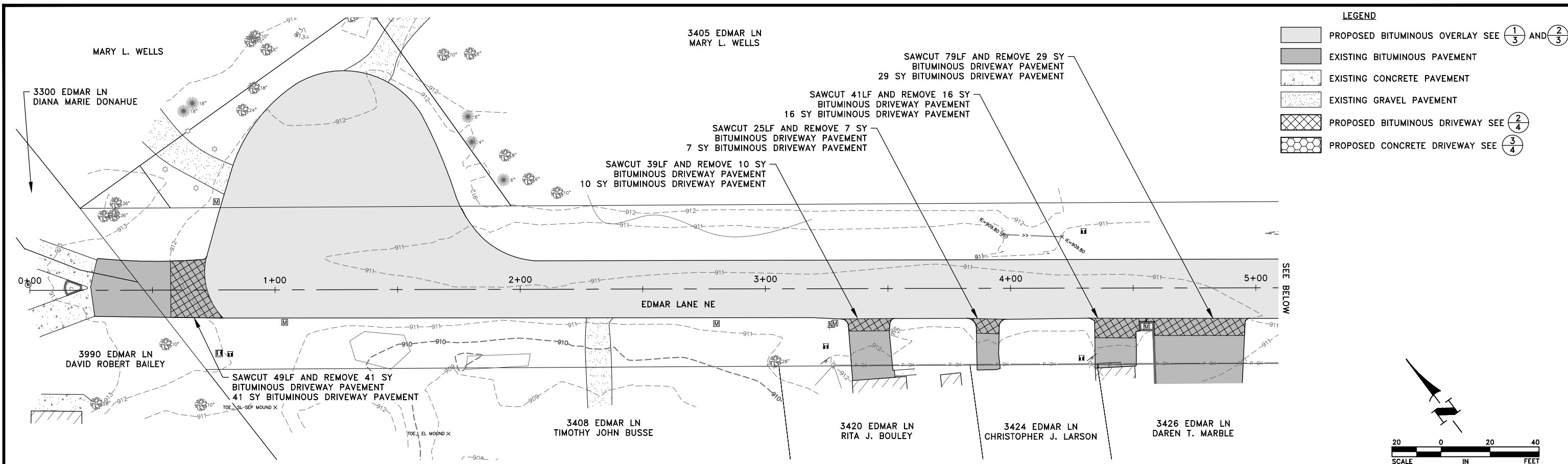
DETAILS

CITY OF EAST BETHEL

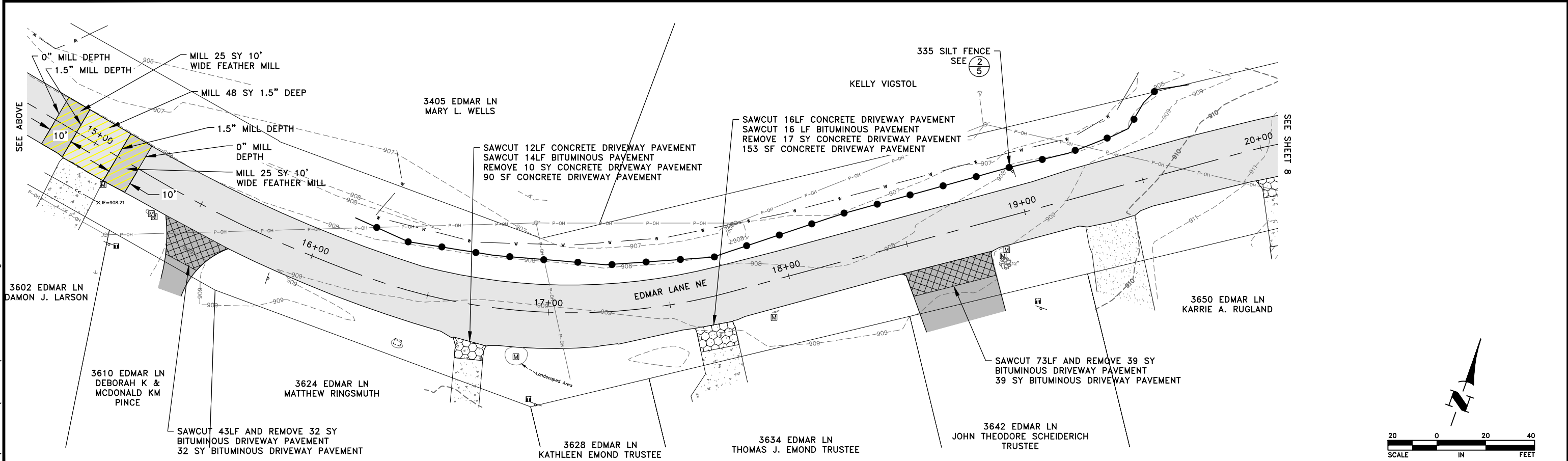
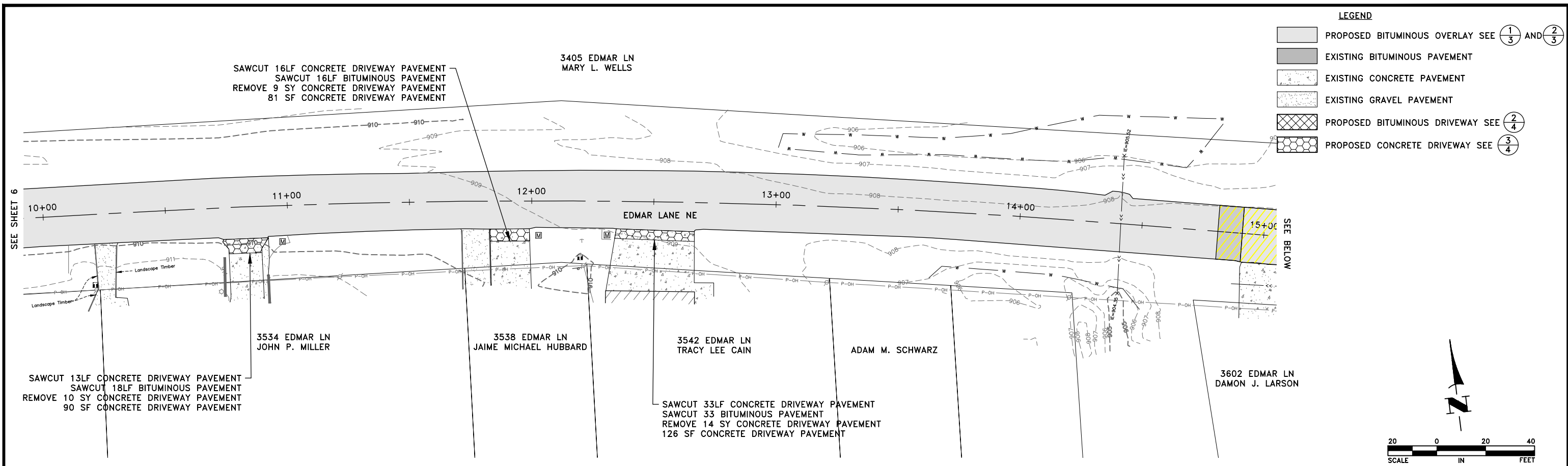
SHEET
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OF
19
SHEETS

EB363

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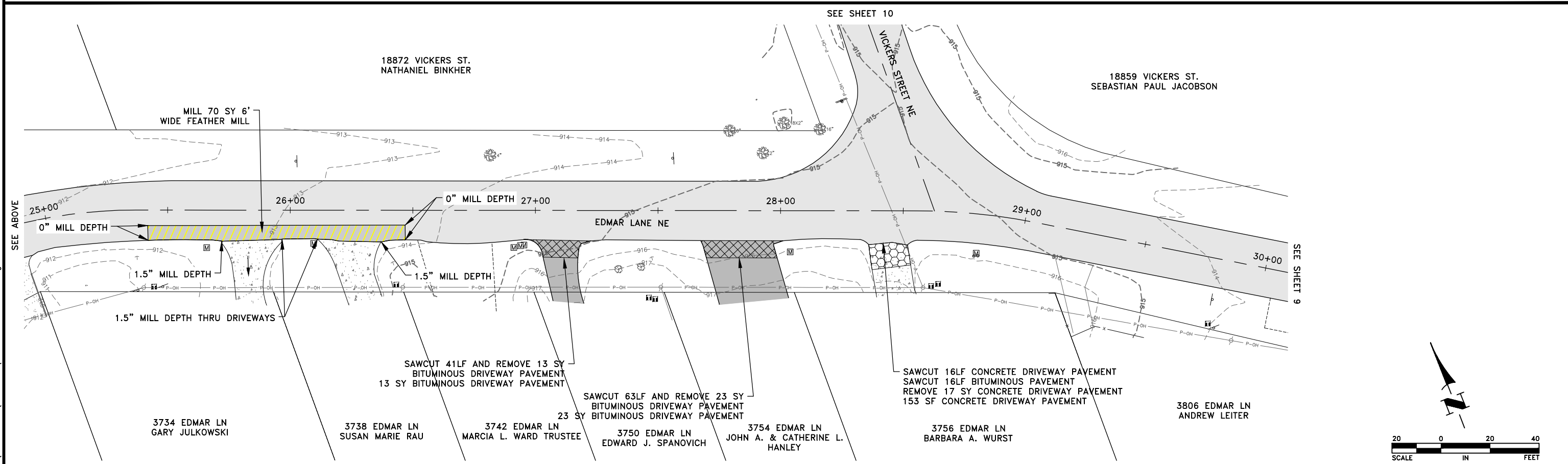
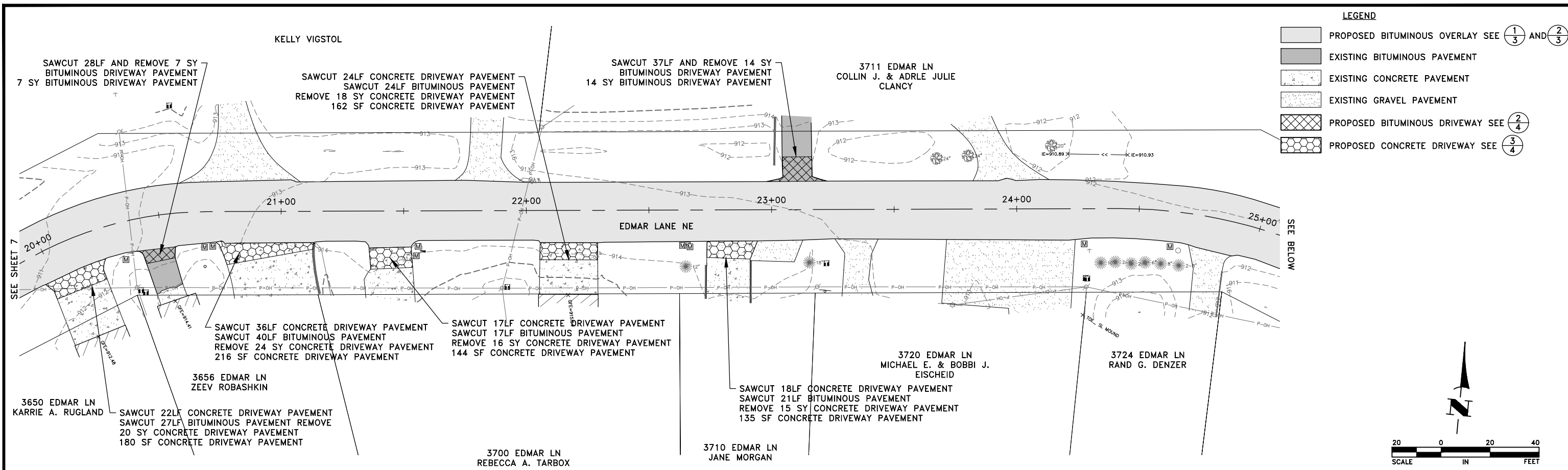
2024 STREET SURFACE IMPROVEMENT PROJECT

CONSTRUCTION PLAN

EDMAR LANE NE
CITY OF EAST BETHEL

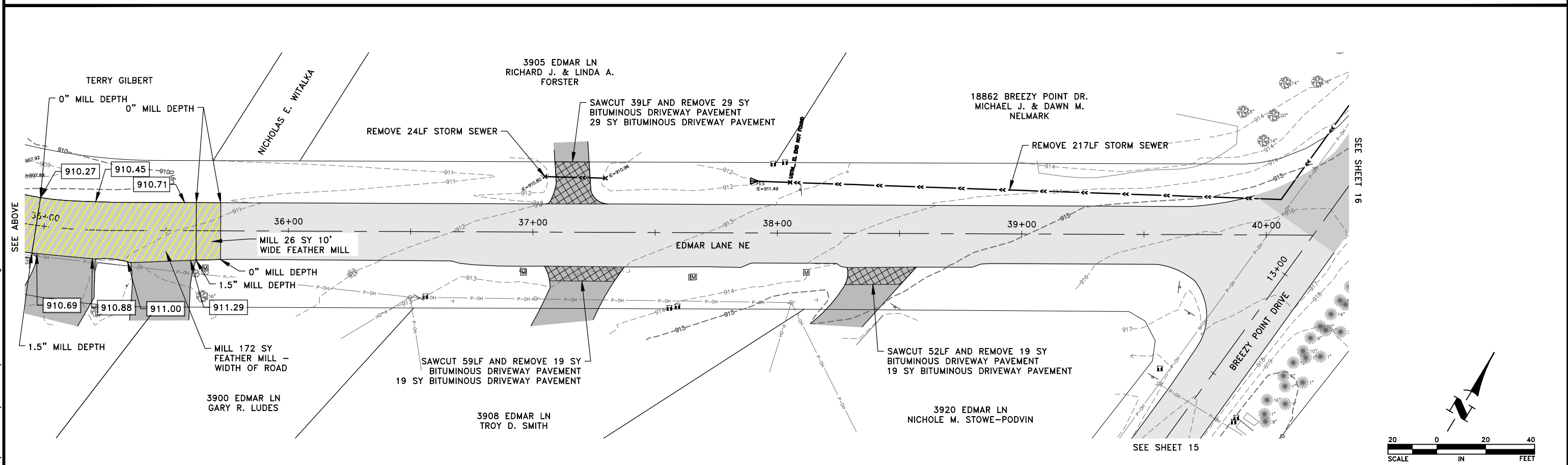
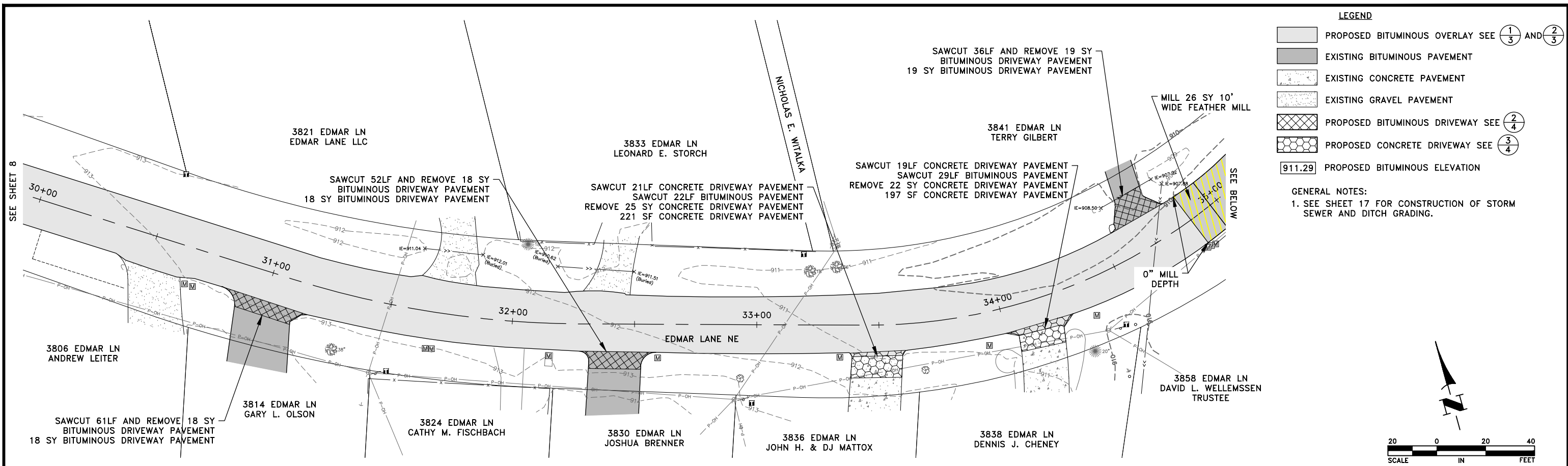
SHEET
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OF
19
SHEETS

Mar 03, 2024 - 3:54pm
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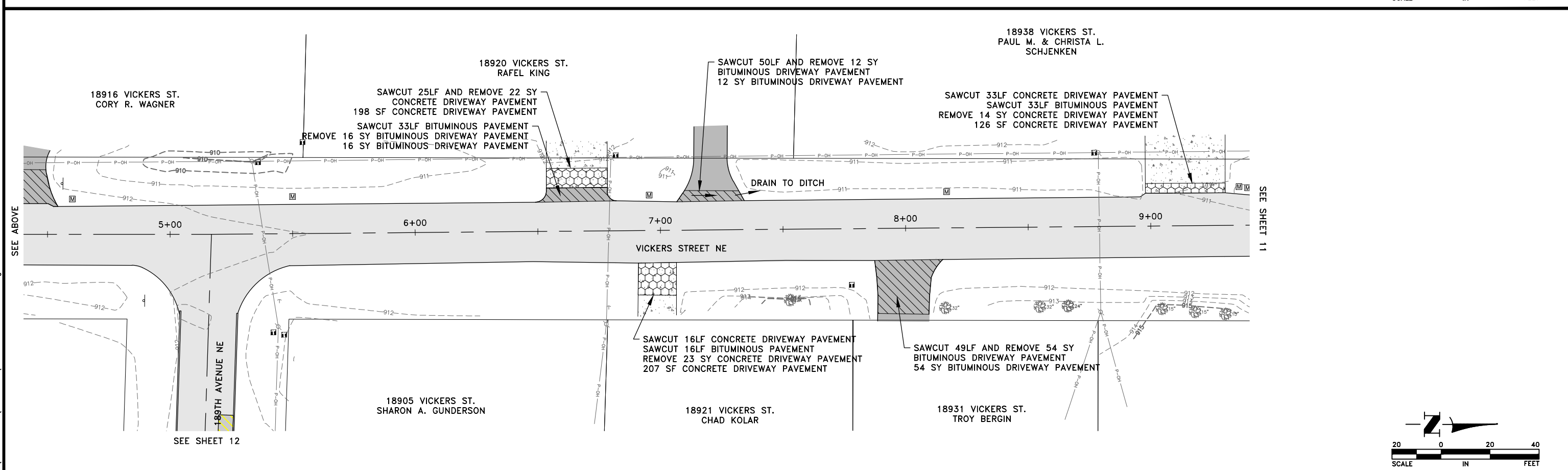
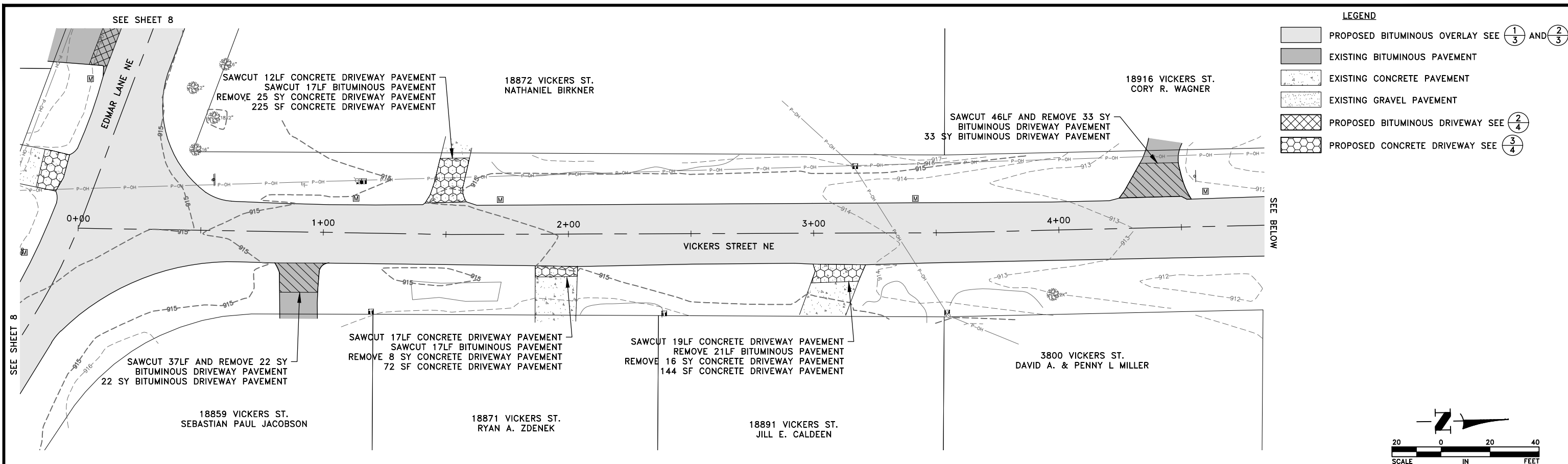
DATE	REVISION	I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.	DESIGNED BY: CJJ		Hakanson Anderson Civil Engineers and Land Surveyors 3601 Thurston Ave., Anoka, Minnesota 55303 763-427-5860 FAX 763-427-0520 www.hakanson-anderson.com	2024 STREET SURFACE IMPROVEMENT PROJECT	CONSTRUCTION PLAN EDMAR LANE NE CITY OF EAST BETHEL	SHEET 8 OF 19 SHEETS
			DRAWN BY: DMS					
			CHECKED BY: CJJ					

Date 2/23/24
CRAIG J. JOCHUM, P.E.
Lic. No. 23461

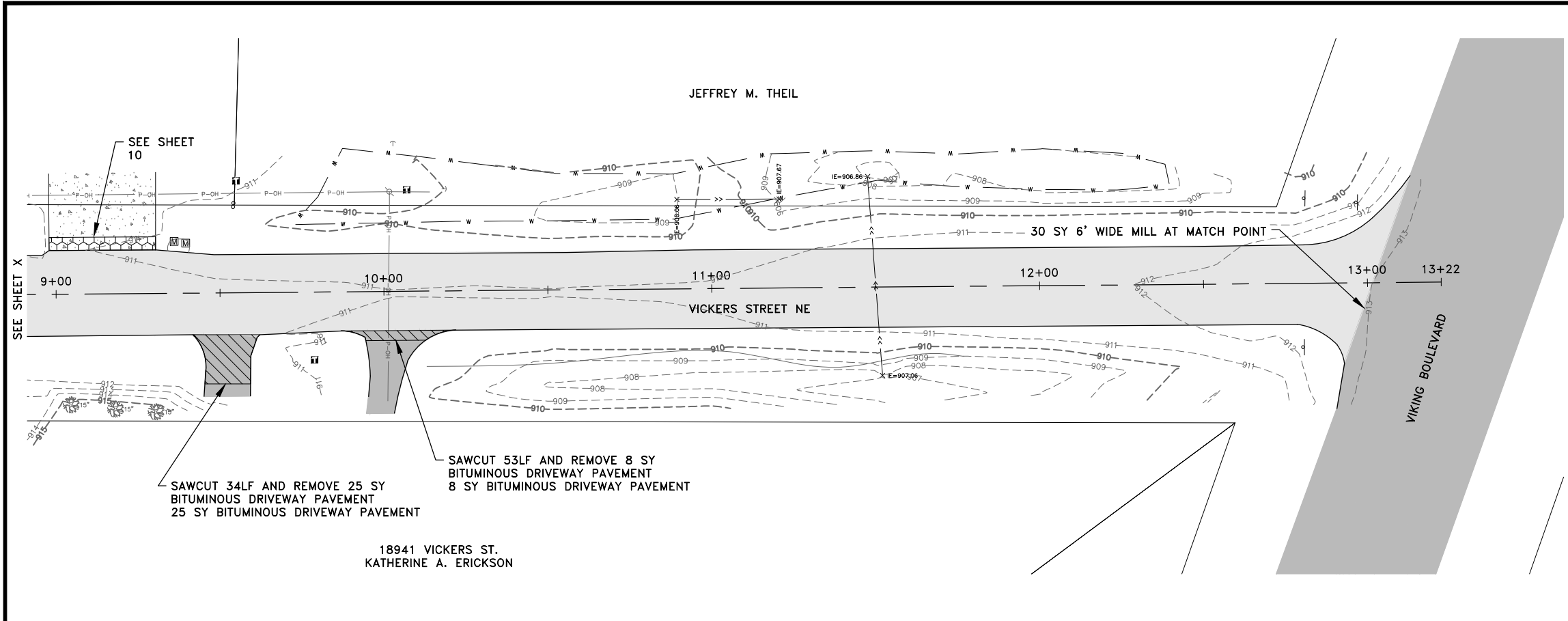


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		CRAIG J. JOCHUM, P.E. Date 2/23/24 Lic. No. 23461		DRAWN BY: DMS					
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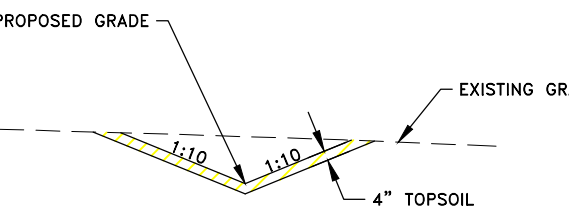
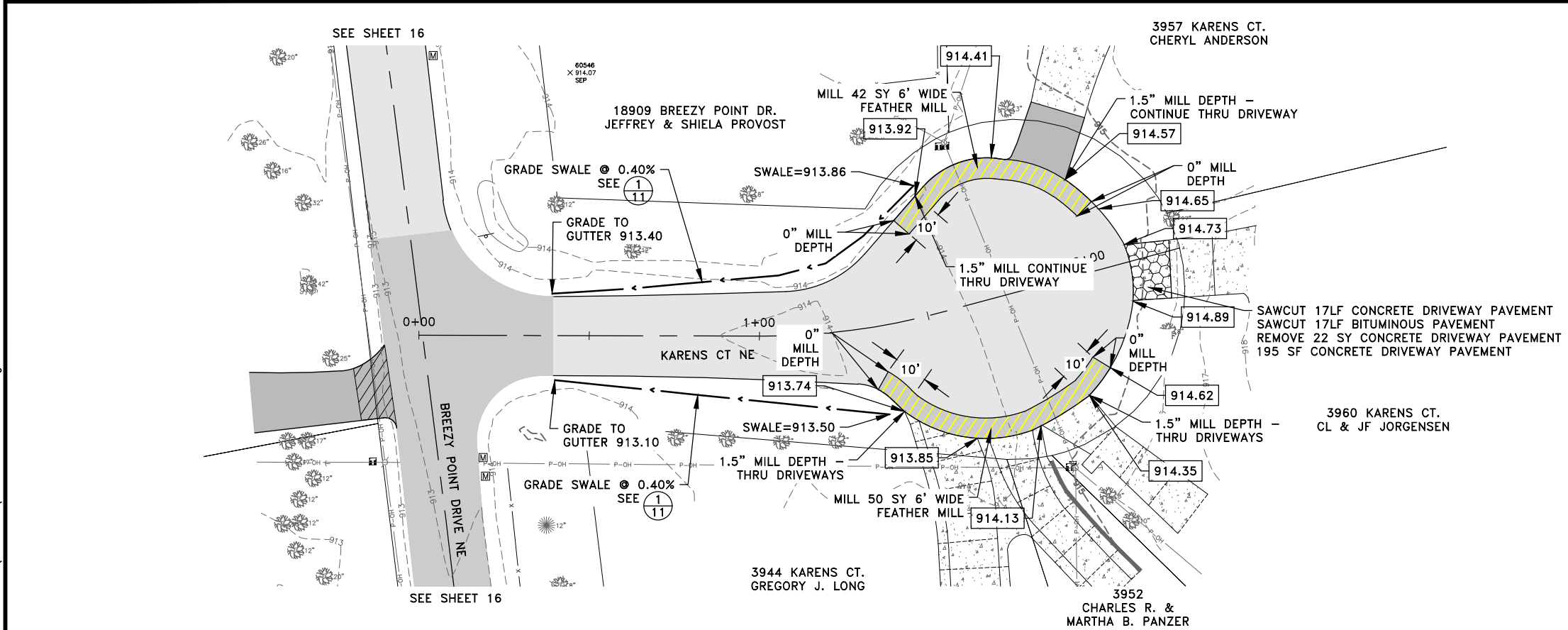
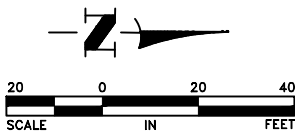


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		CRAIG J. JOCHUM, P.E. Date 2/23/24 Lic. No. 23461		DRAWN BY: DMS					
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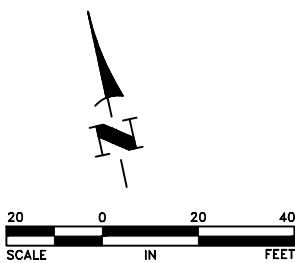


- LEGEND
- PROPOSED BITUMINOUS OVERLAY SEE ①/③ AND ②/③
 - EXISTING BITUMINOUS PAVEMENT
 - EXISTING CONCRETE PAVEMENT
 - EXISTING GRAVEL PAVEMENT
 - PROPOSED BITUMINOUS DRIVEWAY SEE ②/④
 - PROPOSED CONCRETE DRIVEWAY SEE ③/④
 - 911.29 PROPOSED BITUMINOUS ELEVATION

- GENERAL NOTES:
- SEE SHEETS 17-18 FOR ADDITIONAL INFORMATION.
 - SEE SHEET 18 FOR INTERSECTION CONSTRUCTION AT BREEZY POINT DRIVE AND KARENS COURT.
- REFERENCE NOTES:
- ① SWALE GRADING SHALL BE PAID PER ITEM 2106 MINOR GRADING SWALE. CONTRACTOR SHALL DISPOSE OF ALL EXCESS SOIL.



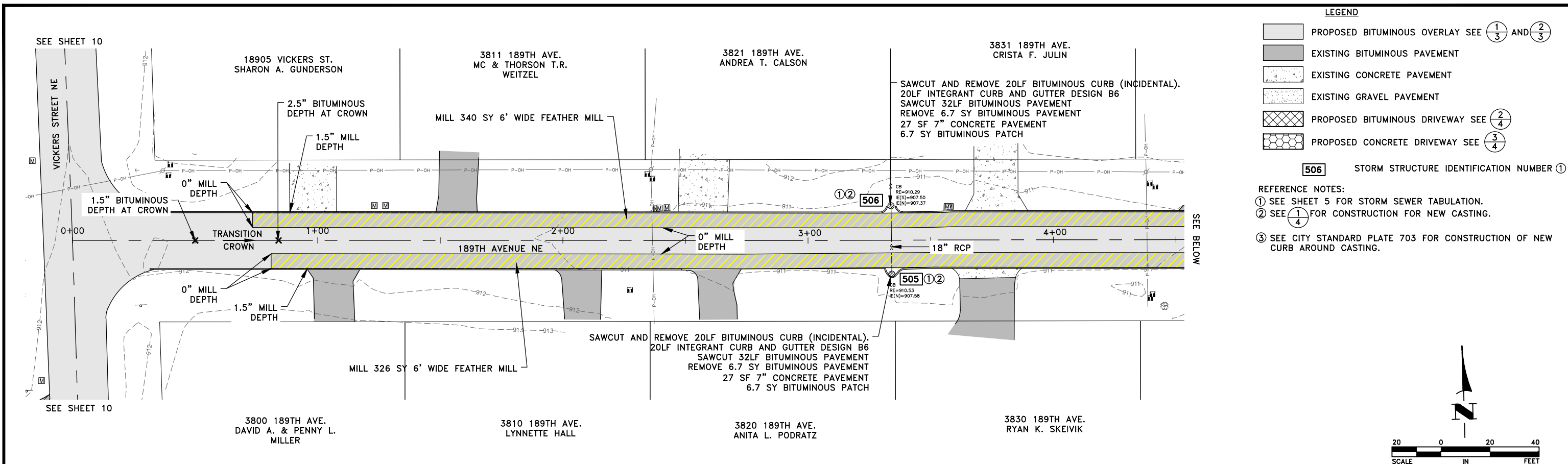
① SWALE TYPICAL SECTION ①



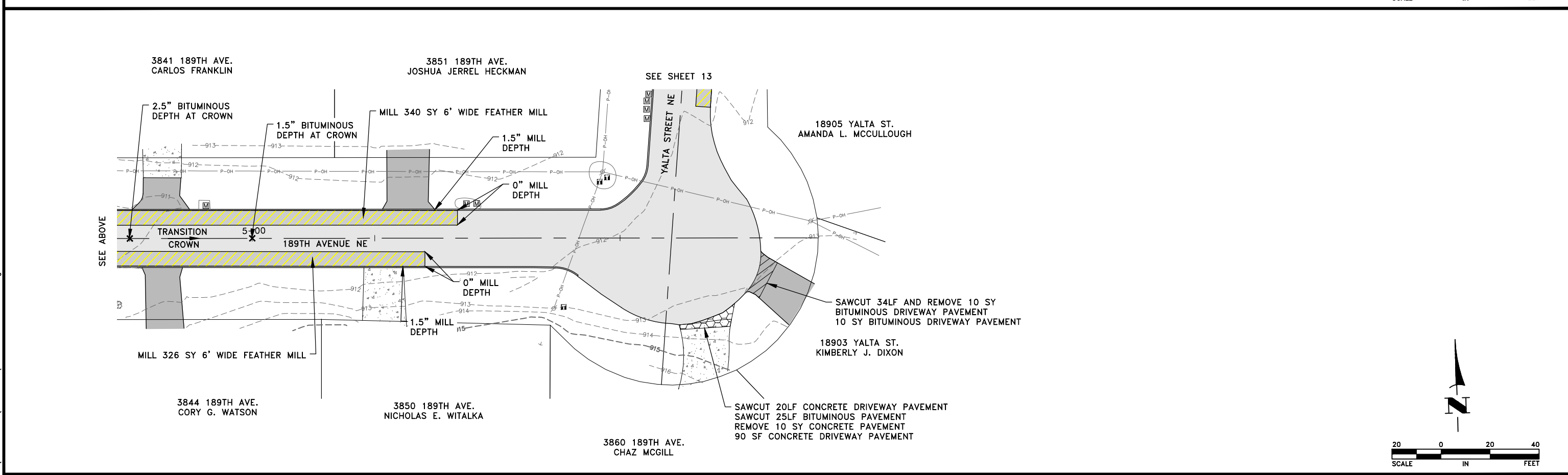
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		CRAIG J. JOCHUM, P.E. Date 2/23/24 Lic. No. 23461	DRAWN BY: DMS					
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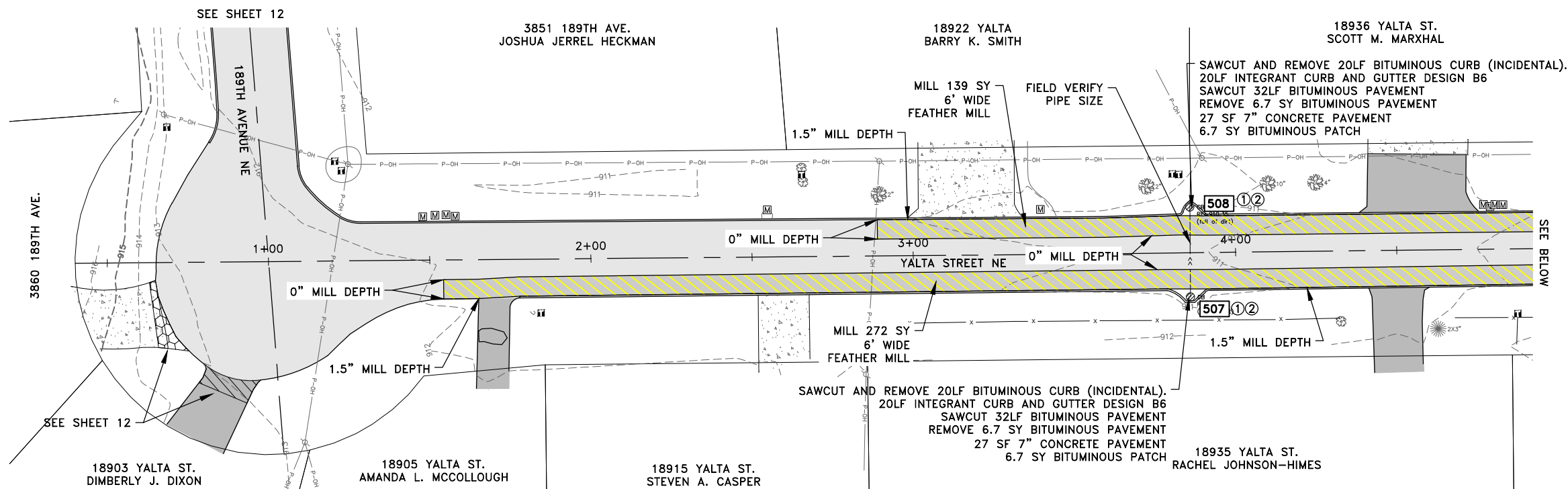
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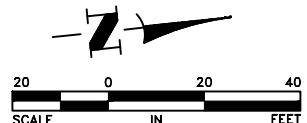
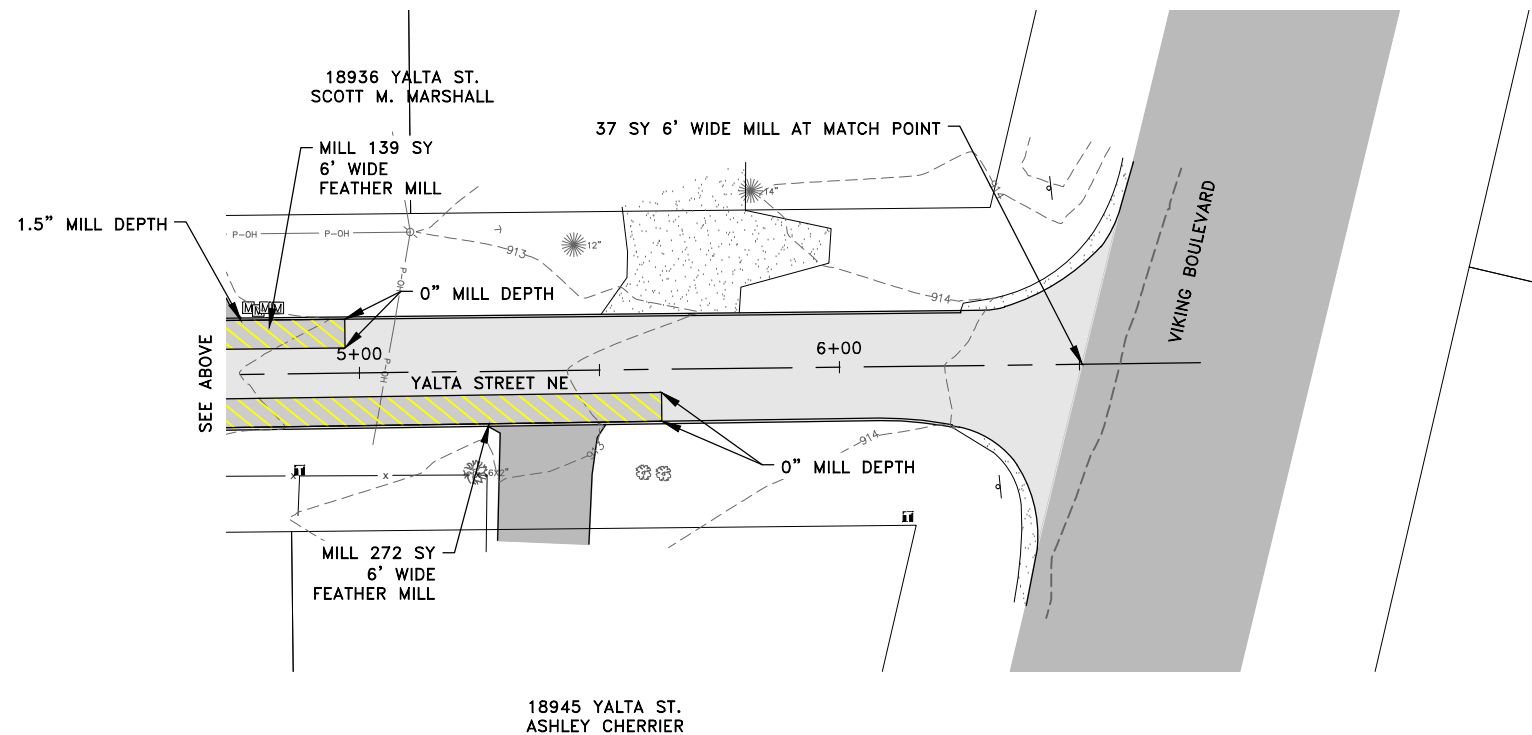
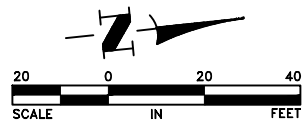
- LEGEND**
- PROPOSED BITUMINOUS OVERLAY SEE ①/③ AND ②/③
 - EXISTING BITUMINOUS PAVEMENT
 - EXISTING CONCRETE PAVEMENT
 - EXISTING GRAVEL PAVEMENT
 - PROPOSED BITUMINOUS DRIVEWAY SEE ②/④
 - PROPOSED CONCRETE DRIVEWAY SEE ③/④
- 506** STORM STRUCTURE IDENTIFICATION NUMBER ①
- REFERENCE NOTES:**
- ① SEE SHEET 5 FOR STORM SEWER TABULATION.
 - ② SEE ① FOR CONSTRUCTION FOR NEW CASTING.
 - ③ SEE CITY STANDARD PLATE 703 FOR CONSTRUCTION OF NEW CURB AROUND CASTING.



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- LEGEND**
- PROPOSED BITUMINOUS OVERLAY SEE ①/③ AND ②/③
 - EXISTING BITUMINOUS PAVEMENT
 - EXISTING CONCRETE PAVEMENT
 - EXISTING GRAVEL PAVEMENT
 - PROPOSED BITUMINOUS DRIVEWAY SEE ②/④
 - PROPOSED CONCRETE DRIVEWAY SEE ③/④
 - 506 STORM STRUCTURE IDENTIFICATION NUMBER ①
- REFERENCE NOTES:**
- ① SEE SHEET 5 FOR STORM SEWER TABULATION. FIELD VERIFY STRUCTURE INVERTS.
 - ② SEE ①/④ FOR CONSTRUCTION FOR NEW CASTING.



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2024 STREET SURFACE IMPROVEMENT
PROJECT

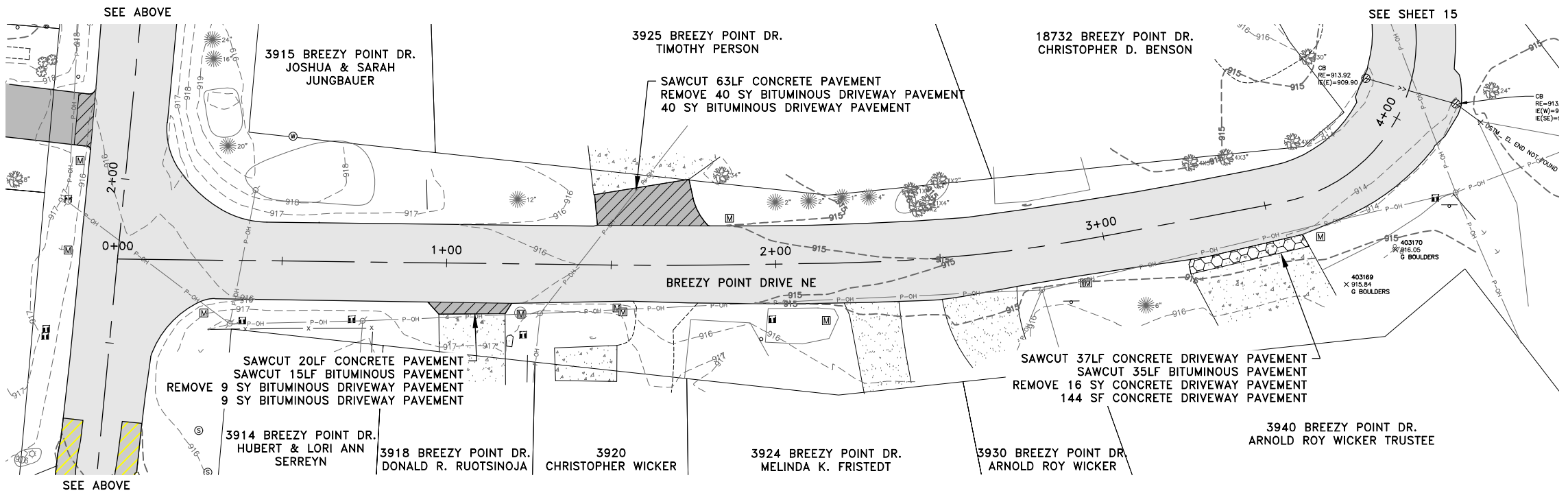
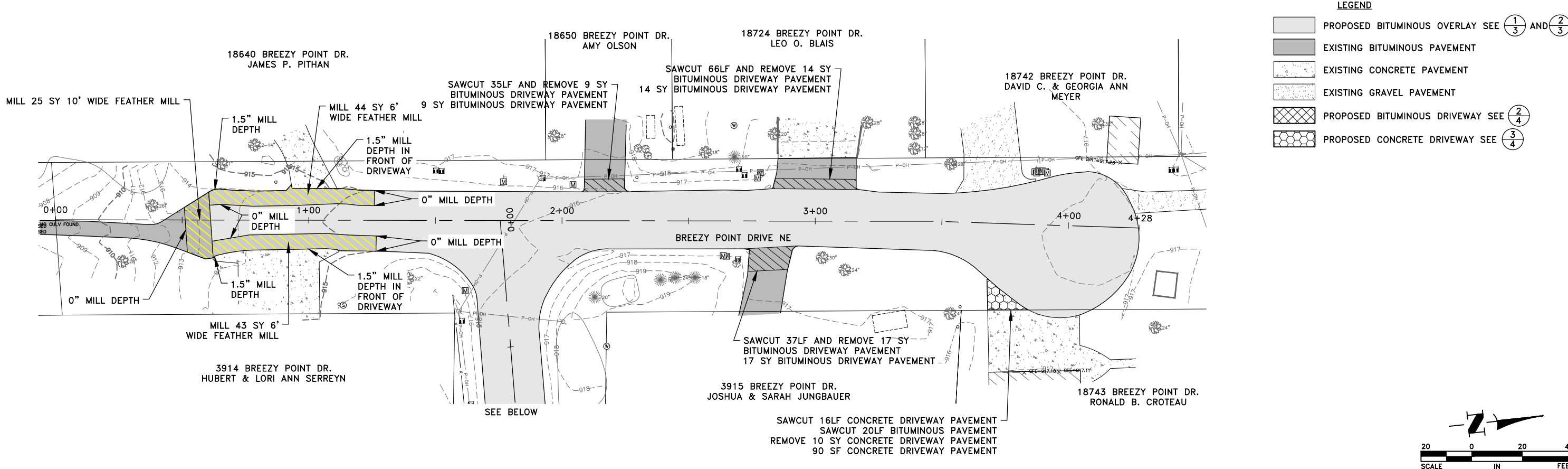
CONSTRUCTION PLAN

YALTA STREET NE
CITY OF EAST BETHEL

SHEET
13
OF
19
SHEETS

EB363

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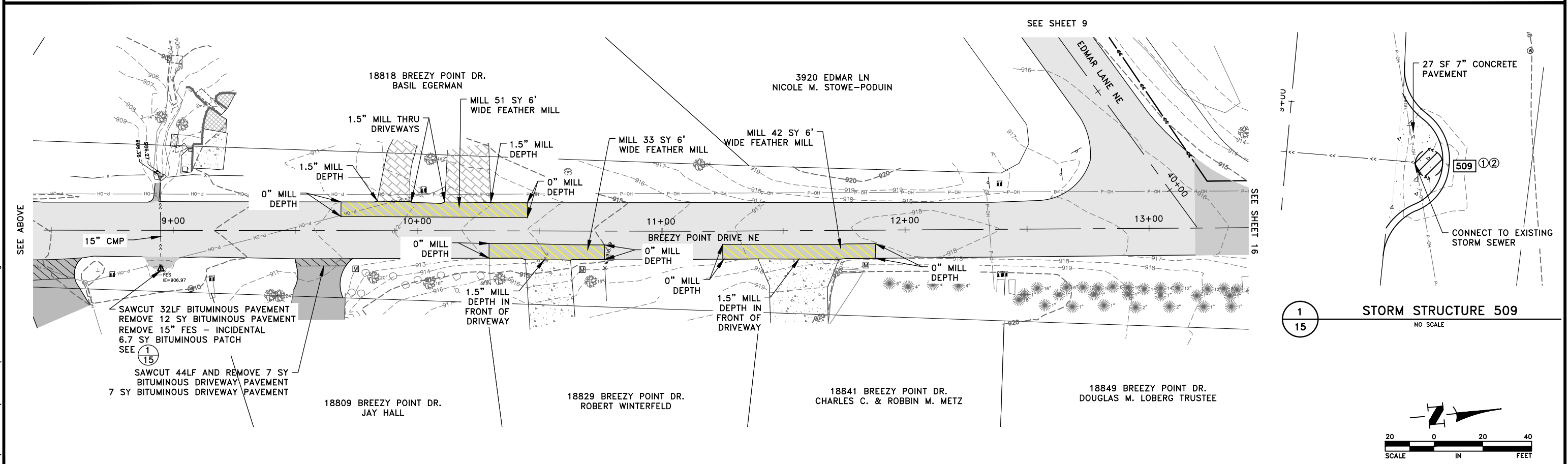
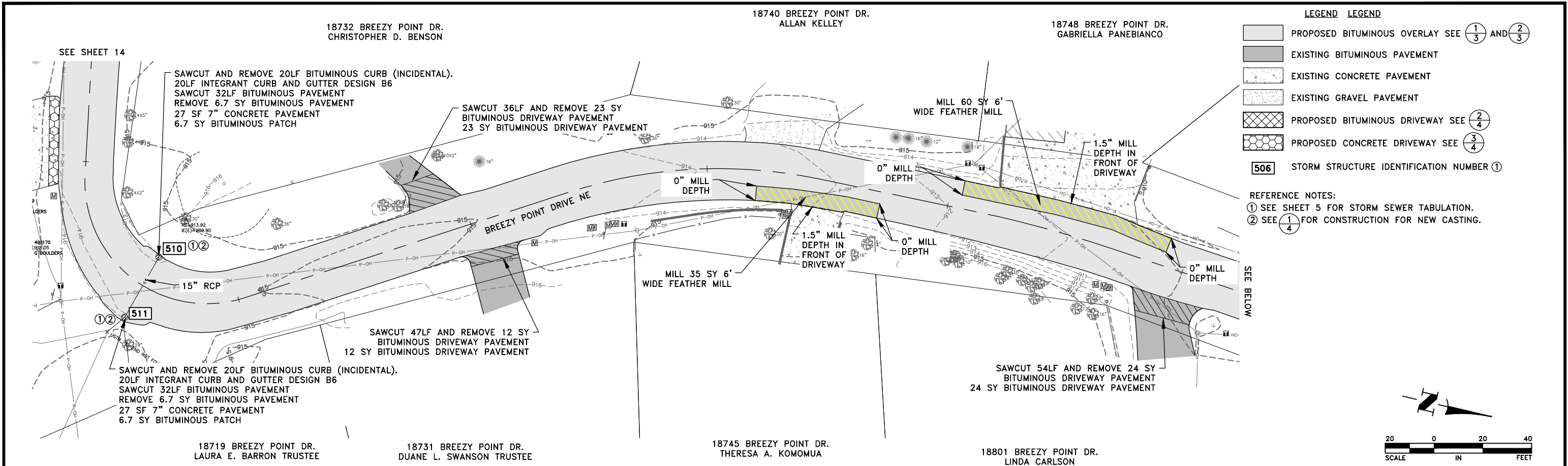
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2024 STREET SURFACE IMPROVEMENT
PROJECT

CONSTRUCTION PLAN
BREEZY POINT DRIVE NE
CITY OF EAST BETHEL

SHEET
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OF
19
SHEETS

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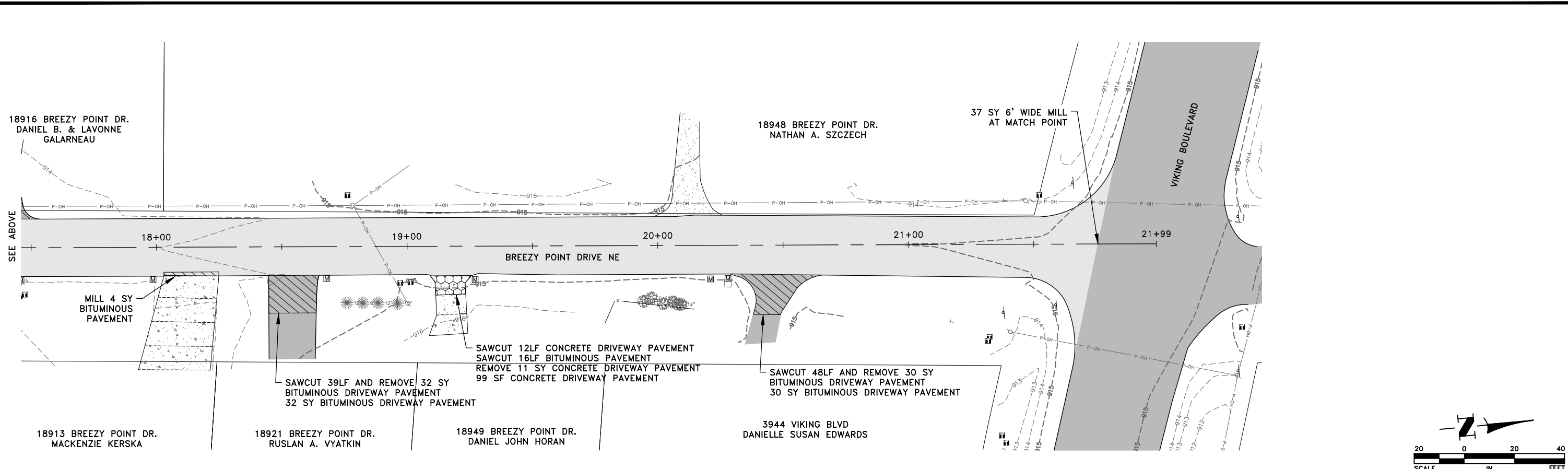
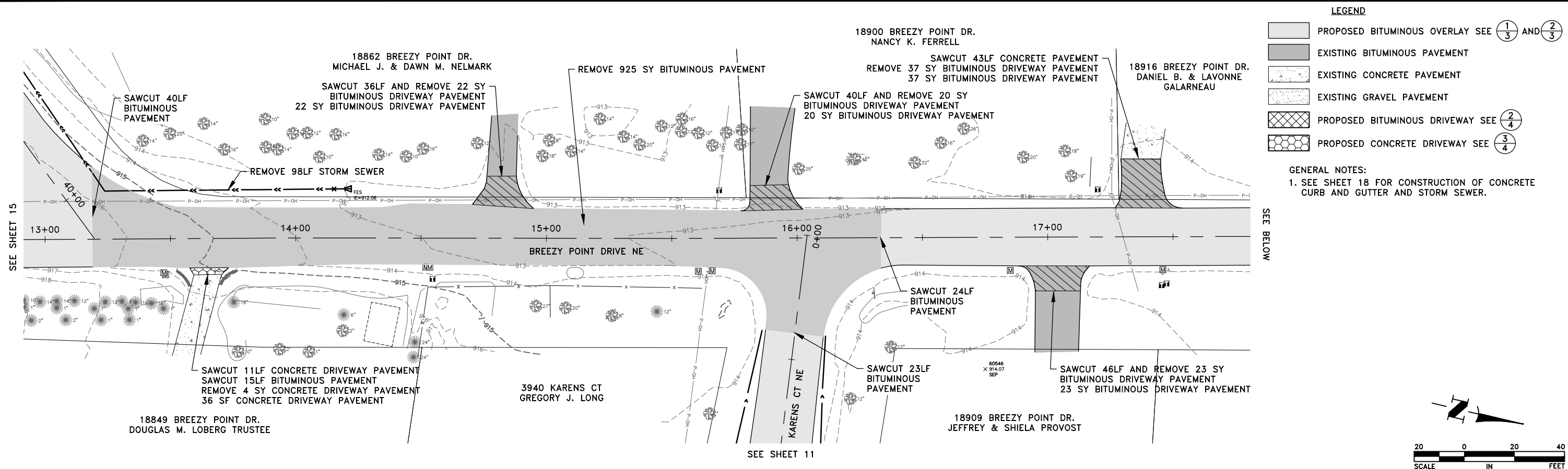
2024 STREET SURFACE IMPROVEMENT
PROJECT

CONSTRUCTION PLAN
BREEZY POINT DRIVE NE
CITY OF EAST BETHEL

SHEET
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OF
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SHEETS

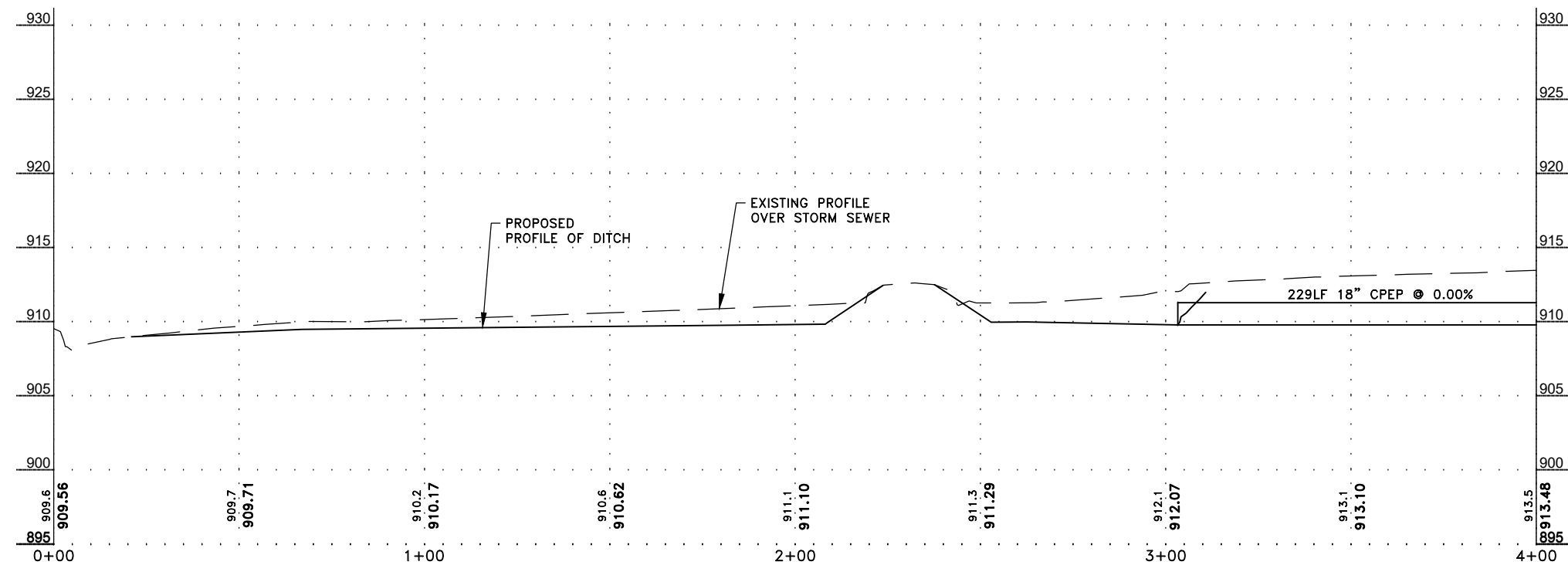
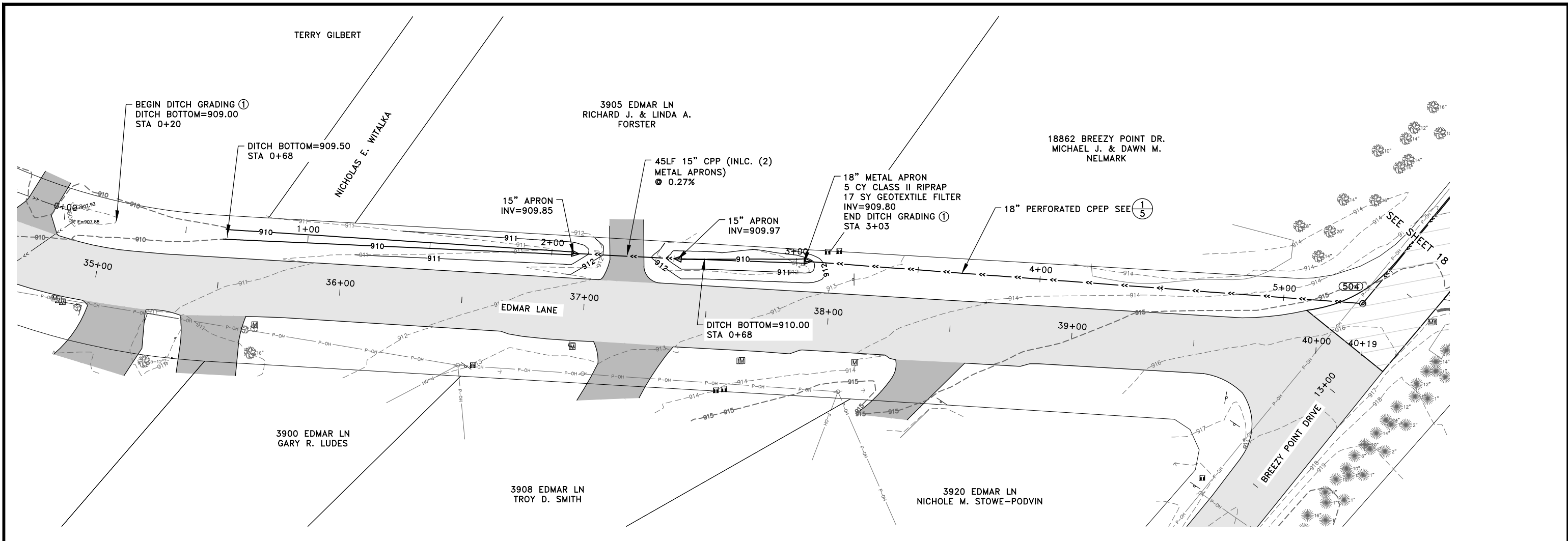
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		CRAIG J. JOCHUM, P.E. Date 2/23/24 Lic. No. 23461		DRAWN BY: DMS					
				CHECKED BY: CJJ					

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LEGEND

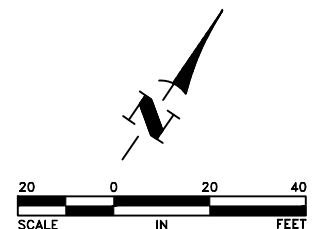
- PROPOSED BITUMINOUS OVERLAY SEE ①/3 AND ②/3
- EXISTING BITUMINOUS PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING GRAVEL PAVEMENT
- PROPOSED BITUMINOUS PAVEMENT SEE ①/18

GENERAL NOTES:

- SEE SHEET 9 FOR DRIVEWAY CONSTRUCTION.
- SEE SHEET X2 FOR CROSS SECTIONS.

REFERENCE NOTES:

- ① CONTRACTOR SHALL GRADE DITCH PER CROSS SECTIONS - SEE SHEET X2.
CONTRACTOR SHALL SALVAGE AND REPLACE ALL TOPSOIL AND DISPOSE OF ALL EXCESS SOIL. THIS WORK SHALL BE PAID PER ITEM 2106 MINOR GRADING-DITCH.



DATE	REVISION

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Date 2/23/24 Lic. No. 23461

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2024 STREET SURFACE IMPROVEMENT
PROJECT

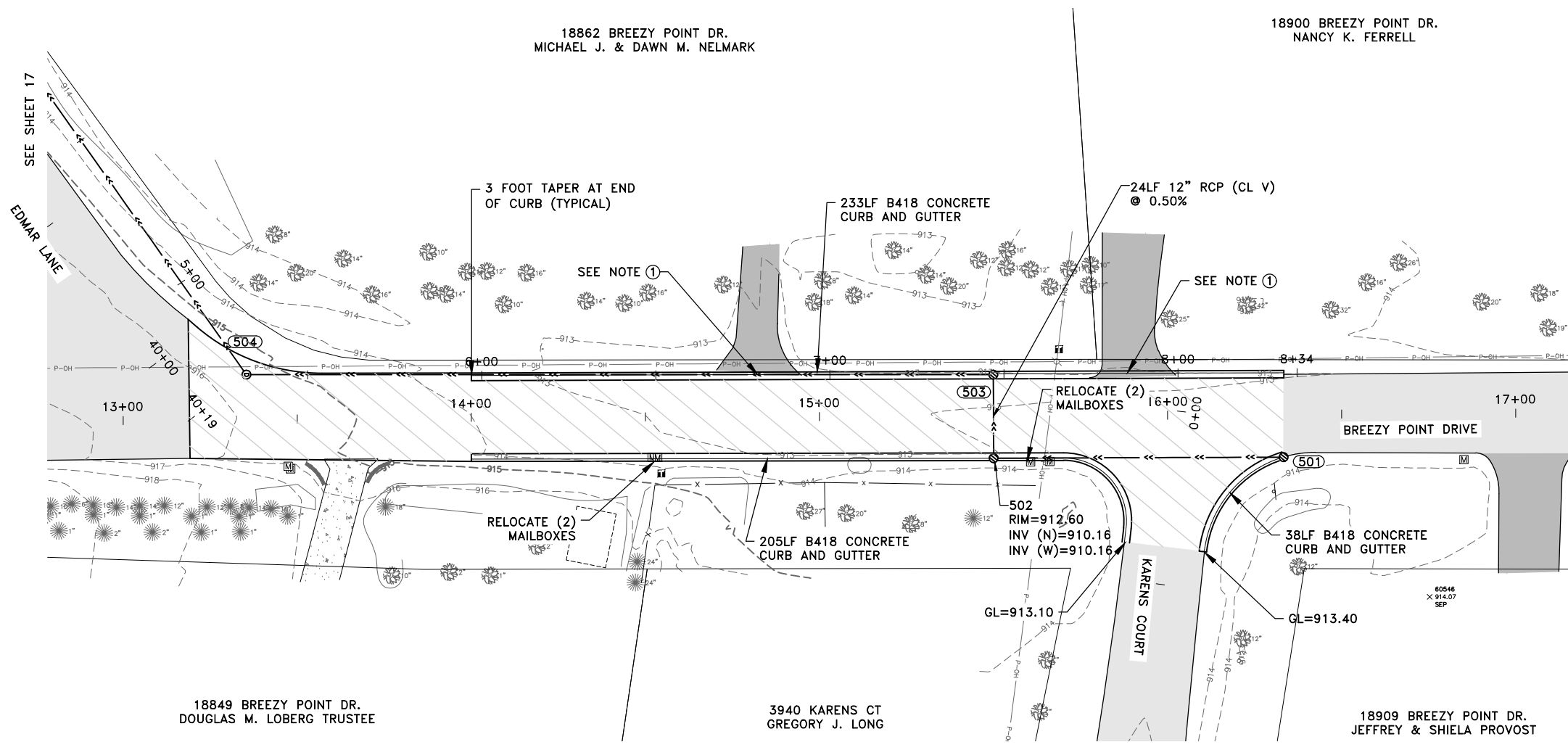
STORM SEWER PLAN AND PROFILE

EDMAR LANE NE
CITY OF EAST BETHEL

SHEET
17

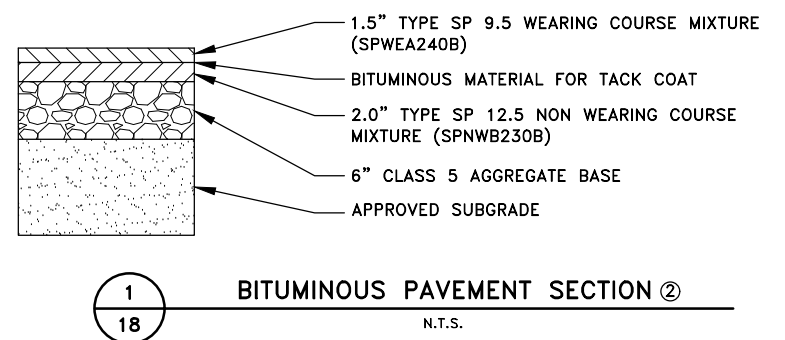
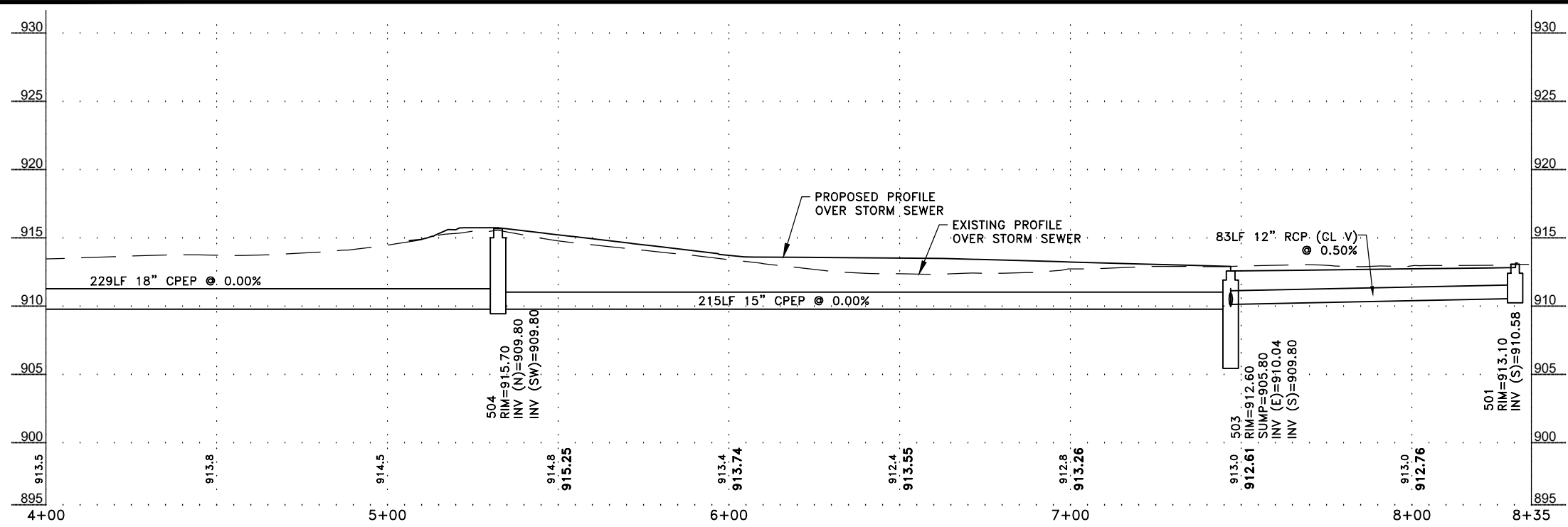
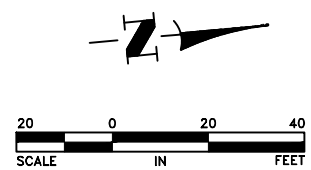
19
SHEETS

EB363



- LEGEND
- PROPOSED BITUMINOUS OVERLAY SEE 1/3 AND 2/3
 - EXISTING BITUMINOUS PAVEMENT
 - EXISTING CONCRETE PAVEMENT
 - EXISTING GRAVEL PAVEMENT
 - PROPOSED BITUMINOUS PAVEMENT SEE 1/18

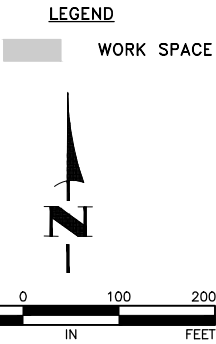
- GENERAL NOTES:
- SEE SHEET X1 FOR CROSS SECTIONS.
 - ALL NEW STORM CASTINGS SHALL OFFSET PER CITY STANDARD PLATE NO. 703. OFFSET IS NOT SHOWN.
- REFERENCE NOTES:
- SEE SHEET 16 FOR DRIVEWAY CONSTRUCTION. CONTRACTOR SHALL DROP BACK OF CURB TO MATCH NEW DRIVEWAY PAVEMENT.
 - CONTRACTOR SHALL CONSTRUCT STREET TO GRADES SHOWN ON THE CROSS SECTIONS. ALL WORK REQUIRED TO PREPARE THE STREET FOR PAVEMENT SHALL BE PAID PER ITEMS 2106 EXCAVATION - SUBGRADE AND 2211 SUBGRADE PREPARATION.



Mar 03, 2024 - 3:56pm
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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. CRAIG J. JOCHUM, P.E. Date 2/23/24 Lic. No. 23461	DESIGNED BY: CJJ		Hakanson Anderson Civil Engineers and Land Surveyors 3601 Thurston Ave., Anoka, Minnesota 55303 763-427-5860 FAX 763-427-0520 www.hakanson-anderson.com	2024 STREET SURFACE IMPROVEMENT PROJECT	STORM SEWER PLAN AND PROFILE BREEZY POINT DRIVE NE CITY OF EAST BETHEL	SHEET 18 OF 19 SHEETS
			DRAWN BY: DMS					
			CHECKED BY: CJJ					

- GENERAL NOTES:
1. REFER TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) FOR SPACING OF TRAFFIC CONTROL SIGNS AND DEVICES.
 2. CONTRACTOR SHALL PROVIDE ACCESS TO RESIDENTS AND BUSINESSES AT ALL TIMES. WHEN TEMPORARY OBSTRUCTION OF THE DRIVEWAYS IS REQUIRED FOR PAVING THE CONTRACTOR SHALL PROVIDE THE AFFECTED RESIDENTS WITH 48 HOURS NOTICE.
 3. ALL DROP OFFS GREATER THAN 2" SHALL BE MARKED WITH TYPE 2 BARRICADES WITH FLASHERS AT BOTH ENDS AND EVERY 10 L.F.
- REFERENCE NOTES:
- ① CONTRACTOR SHALL USE FLAGGERS PER LAYOUT 31 OF THE MMUTCD FOR PAVEMENT TIE-IN WORK TO VIKING BOULEVARD. RESTRICTIONS ON THE COUNTY ROAD ARE ONLY ALLOWED BETWEEN THE HOURS OF 10:00 A.M. AND 2:30 P.M.



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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.

CRAIG J. JOCHUM, P.E.
Date 2/23/24 Lic. No. 23461

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CJJ

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2024 STREET SURFACE IMPROVEMENT
PROJECT

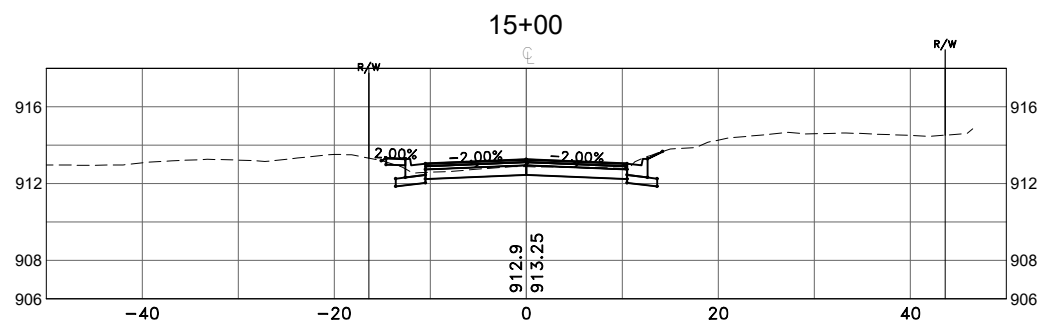
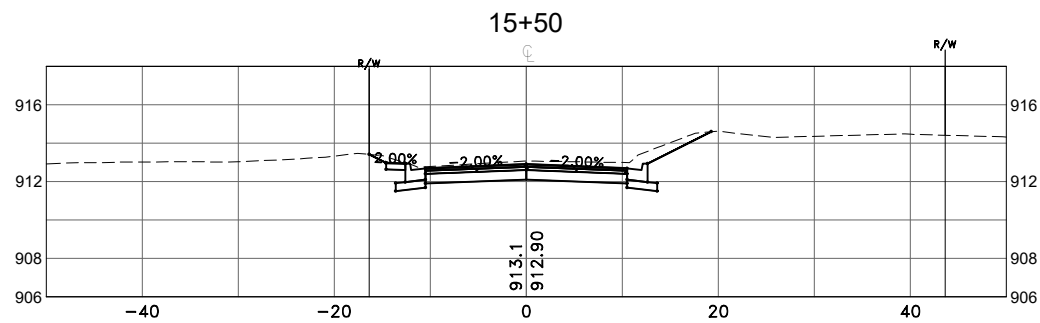
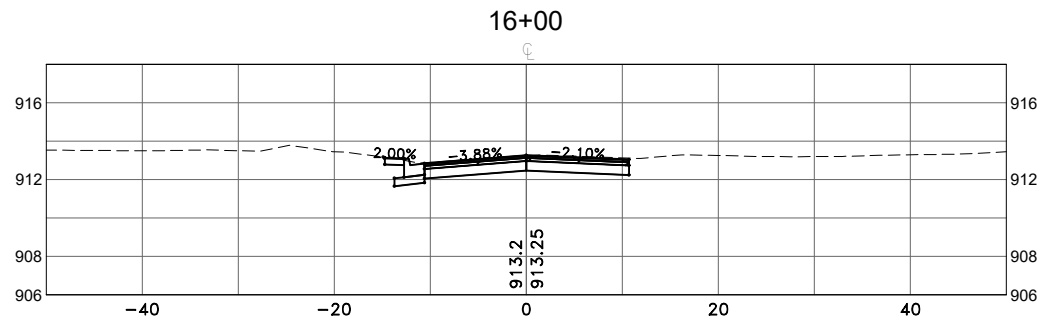
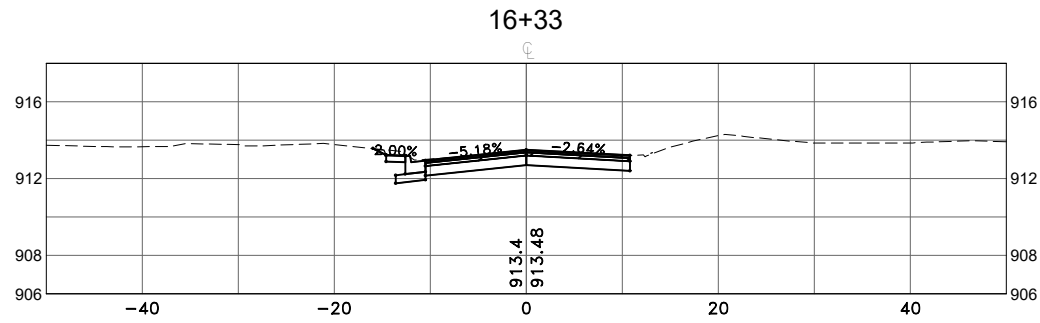
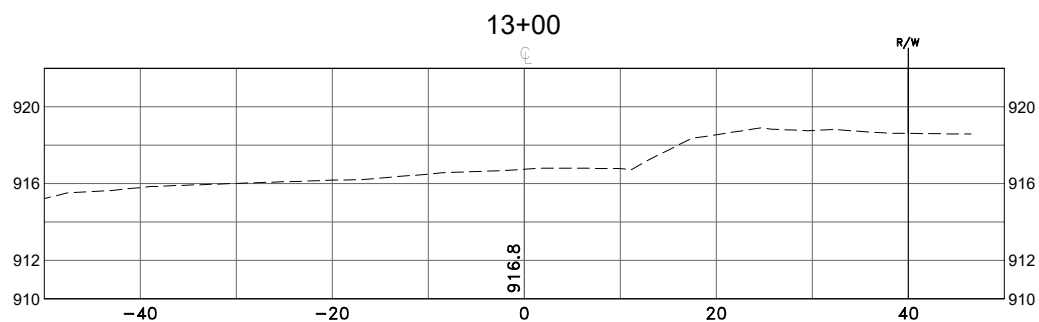
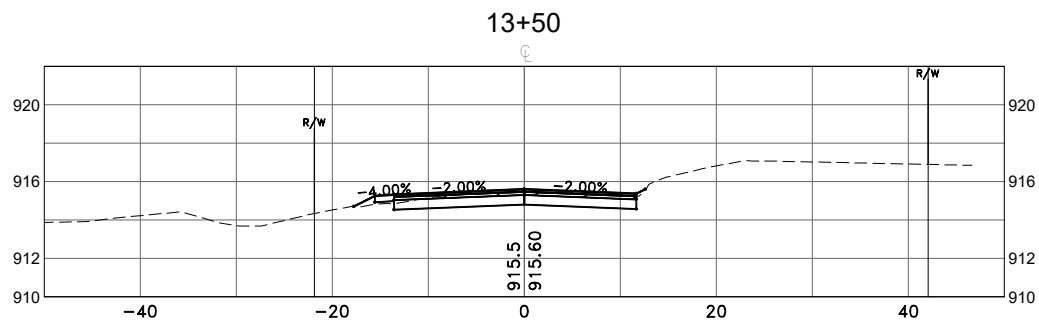
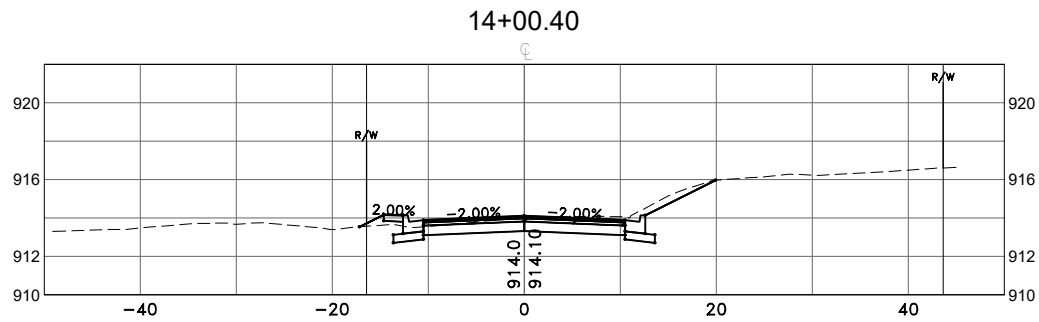
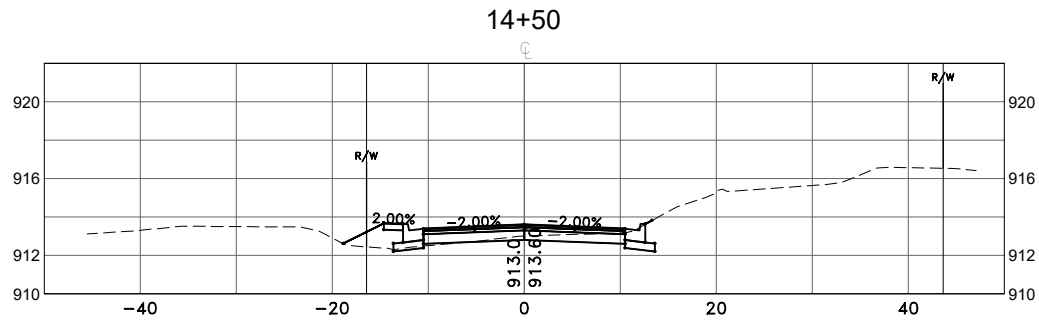
TRAFFIC CONTROL PLAN

CITY OF EAST BETHEL

SHEET
19
OF
19
SHEETS

EB363

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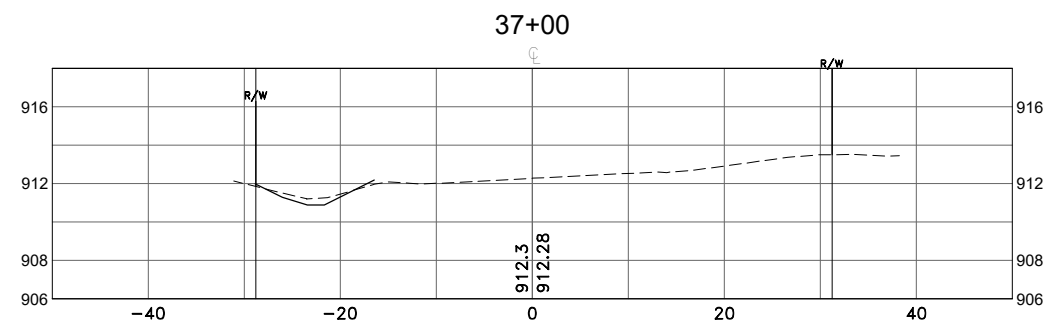
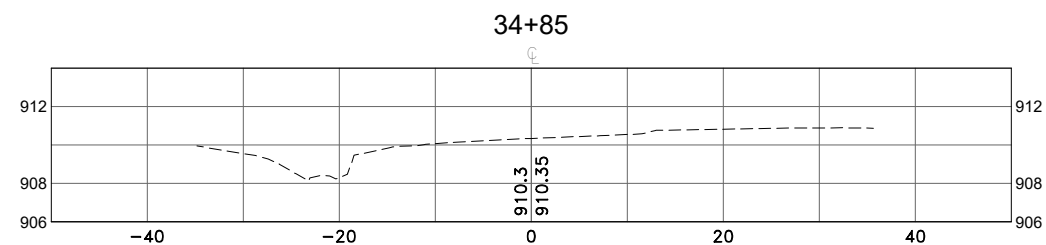
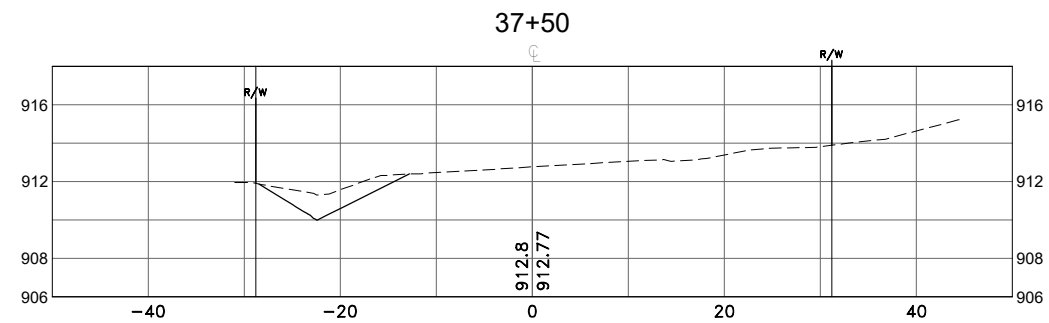
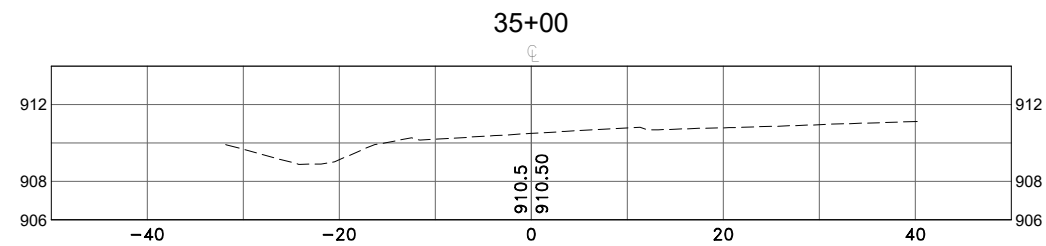
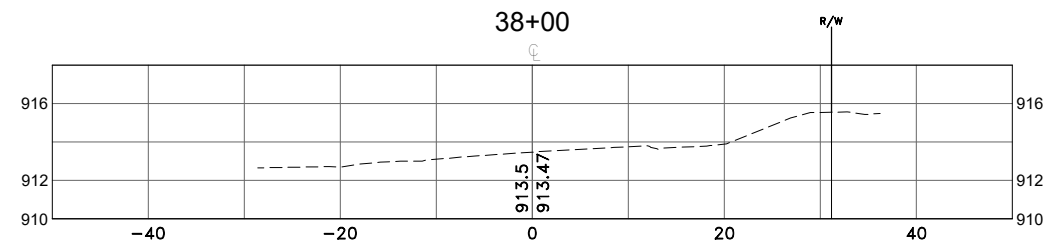
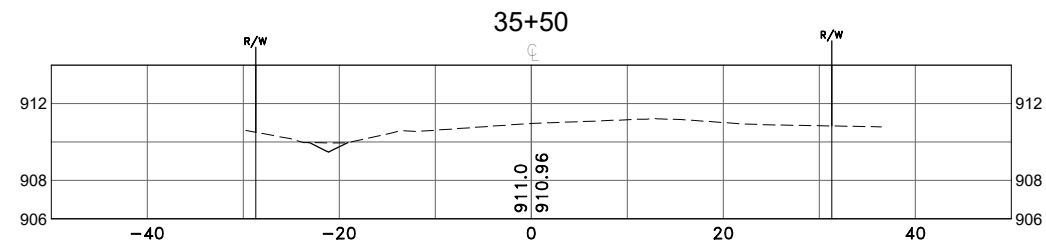
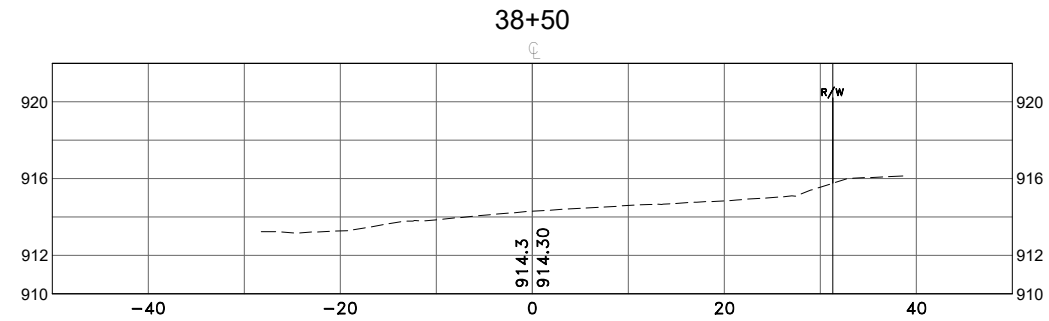
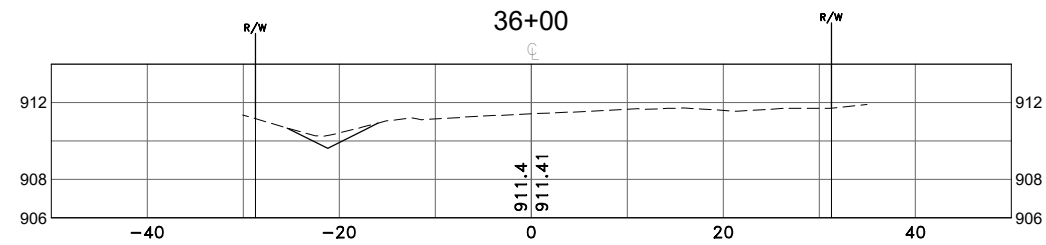
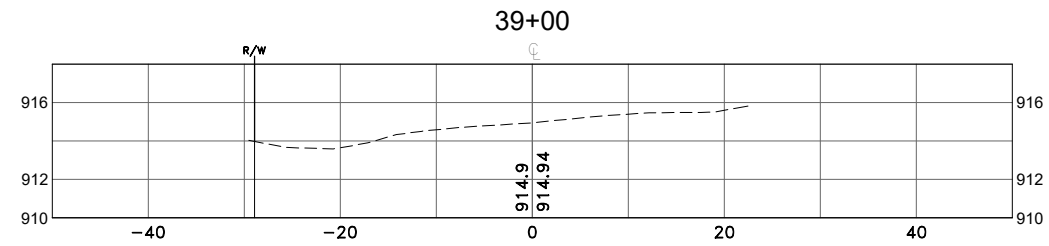
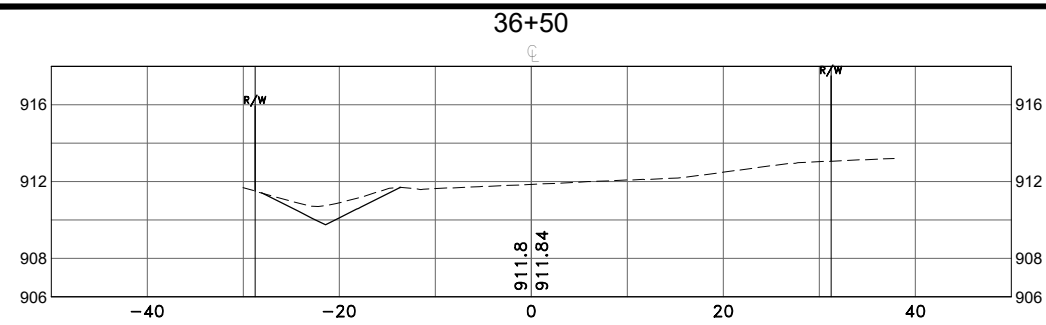


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2024 STREET SURFACE IMPROVEMENT
PROJECT

CROSS SECTIONS
BREEZY POINT DRIVE NE
CITY OF EAST BETHEL

SHEET
X1
OF
X2
SHEETS



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2024 STREET SURFACE IMPROVEMENT
PROJECT

CROSS SECTIONS

EDMAR LANE NE
CITY OF EAST BETHEL

SHEET
X2

OF

X2
SHEETS

8363