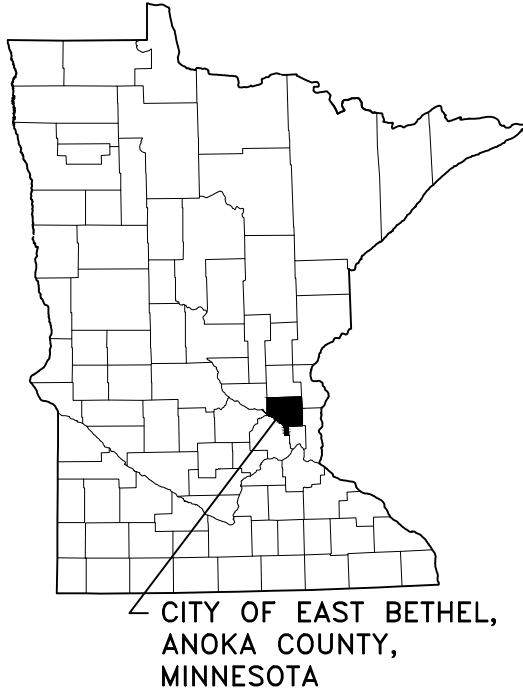
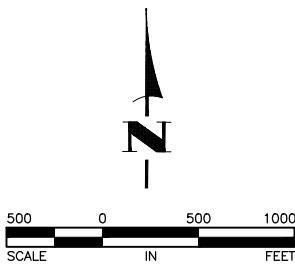
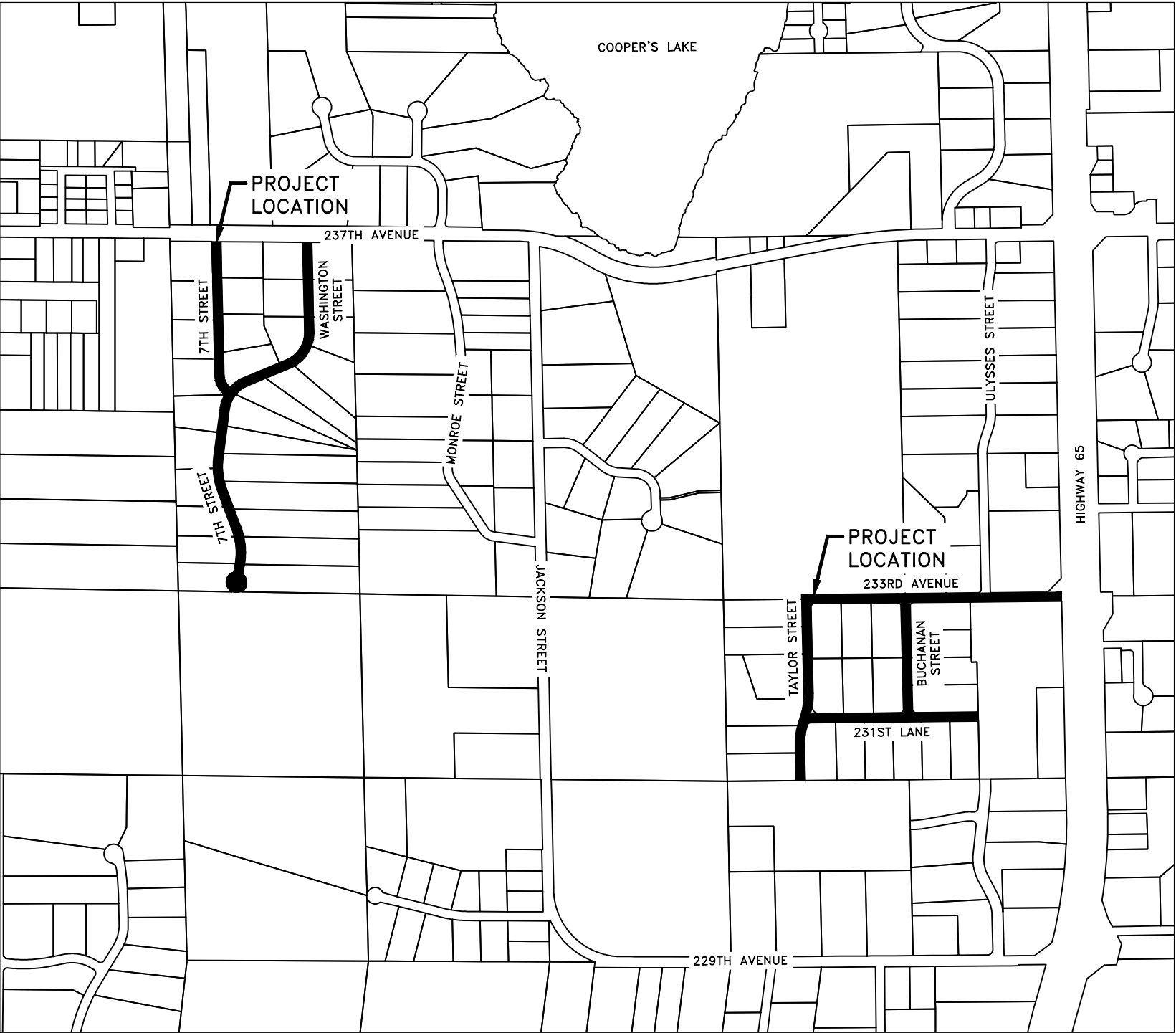


2023 EAST BETHEL STREET SURFACE IMPROVEMENT PROJECT

CITY OF EAST BETHEL, MINNESOTA



GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 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 LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

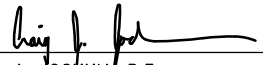
ALL REQUIREMENTS OF THE PROJECT MANUAL FOR THE 2023 EAST BETHEL STREET SURFACE IMPROVEMENT PROJECT.

SHEET INDEX

THIS PLAN CONTAINS 20 SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES, SCHEDULES, AND CONSTRUCTION NOTES
3	TYPICAL SECTIONS AND DETAILS
4	DETAILS
5-6	TRAFFIC CONTROL PLAN
7-9	CONSTRUCTION PLANS - 233RD AVENUE
10-11	CONSTRUCTION PLANS - TAYLOR STREET
12-13	CONSTRUCTION PLANS - 231ST LANE
14	CONSTRUCTION PLANS - BUCHANAN STREET
15-18	CONSTRUCTION PLANS - 7TH STREET
19-20	CONSTRUCTION PLANS - WASHINGTON STREET

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 5/8/23
LIC. NO.

DATE	REVISION

May 17, 2023 - 10:46am
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- GENERAL CONSTRUCTION NOTES:
1. 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. ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO ESTABLISHING TURF SHALL BE INCLUDED IN THE ITEMS PROVIDED ON THE BID FORM. SALVAGING TOPSOIL SHALL BE INCIDENTAL. TOPSOIL FURNISHED AND INSTALLED TO MATCH CUL-DE-SACS AND DRIVEWAYS 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. REMOVAL OF FLUMES SHALL BE PAID PER ITEM 2104 REMOVE BITUMINOUS PAVEMENT.
 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 25-121, 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.

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 25-121	122 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)

ESTIMATED QUANTITIES				
ITEM NO.	Mn/DOT SPEC. NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY
1	2021.501	MOBILIZATION	LUMP SUM	1
2	2104.502	SALVAGE CASTING	EACH	8
3	2104.502	REMOVE CASTING	EACH	5
4	2104.503	SAWING CONCRETE PAVEMENT - FULL DEPTH	LIN FT	78
5	2104.503	SAWING BITUMINOUS PAVEMENT - FULL DEPTH	LIN FT	460
6	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	311
7	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	28
8	2211.509	AGGREGATE BASE CLASS 5	TON	90
9	2232.604	MILL BITUMINOUS SURFACE	SQ YD	366
10	2301.503	INTEGRANT CURB DESIGN B6	LIN FT	220
11	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLONS	2328
12	2360.504	TYPE SP 9.5 WEARING COURSE MIXTURE (2;B) 3.0" THICK	SQ YD	330
13	2360.509	TYPE SP 4.75 BITUMINOUS MIXTURE FOR PATCHING (2;B)	TON	50
14	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2;B)	TON	3239
15	2411.502	CONCRETE FLUME	EACH	1
16	2506.502	CASTING ASSEMBLY	EACH	5
17	2506.602	ADJUST FRAME AND RING CASTING	EACH	13
18	2511.504	GEOTEXTILE FILTER TYPE 7	SQ YD	31
19	2511.507	RANDOM RIPRAP CLASS II (FIELD STONE)	CU YD	8
20	2521.518	6" CONCRETE WALK	SQ FT	78
21	2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ FT	320
22	2531.618	TRUNCATED DOMES	SQ FT	20
23	2563.601	TRAFFIC CONTROL	LUMP SUM	1
24	2574.507	COMMON TOPSOIL BORROW	CU YD	40
25	2575.604	SITE RESTORATION	SQ YD	630

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CRAIG J. JOCHUM, P.E.
Date 5/8/23 Lic. No. 23461

DESIGNED BY: CJJ
DRAWN BY: SGJ
CHECKED BY: TAE



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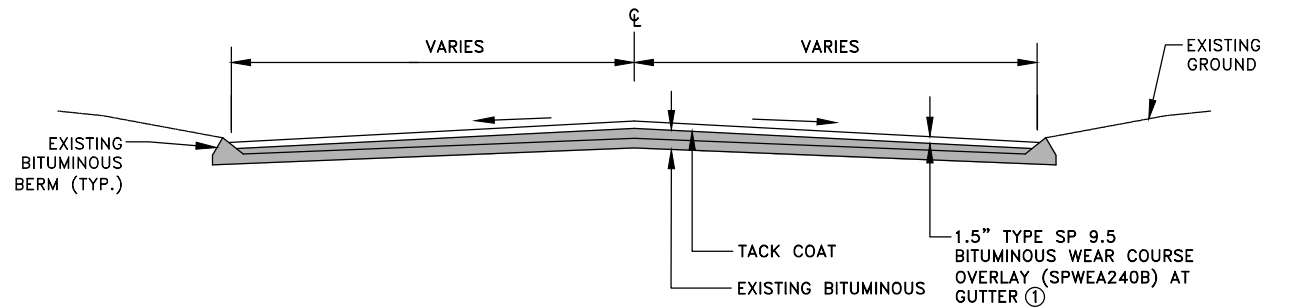
2023 EAST BETHEL STREET SURFACE
IMPROVEMENT PROJECT

ESTIMATED QUANTITIES, SCHEDULES, AND
CONSTRUCTION NOTES

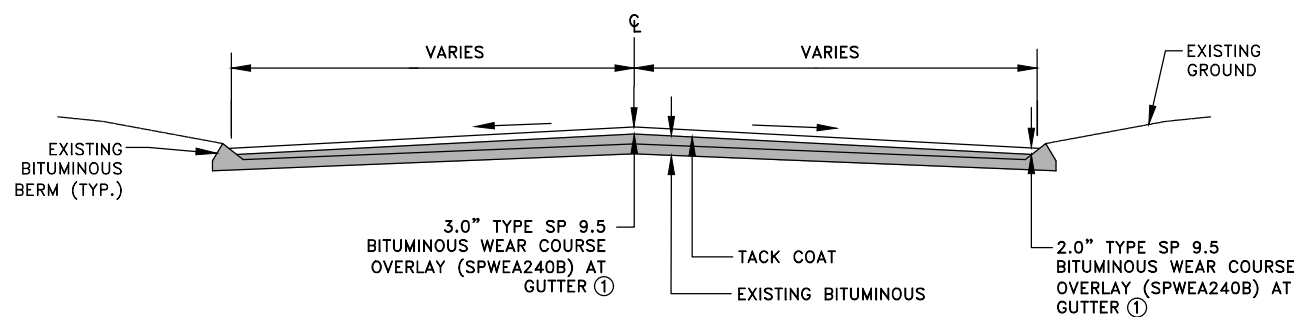
CITY OF EAST BETHEL, MINNESOTA

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SHEETS

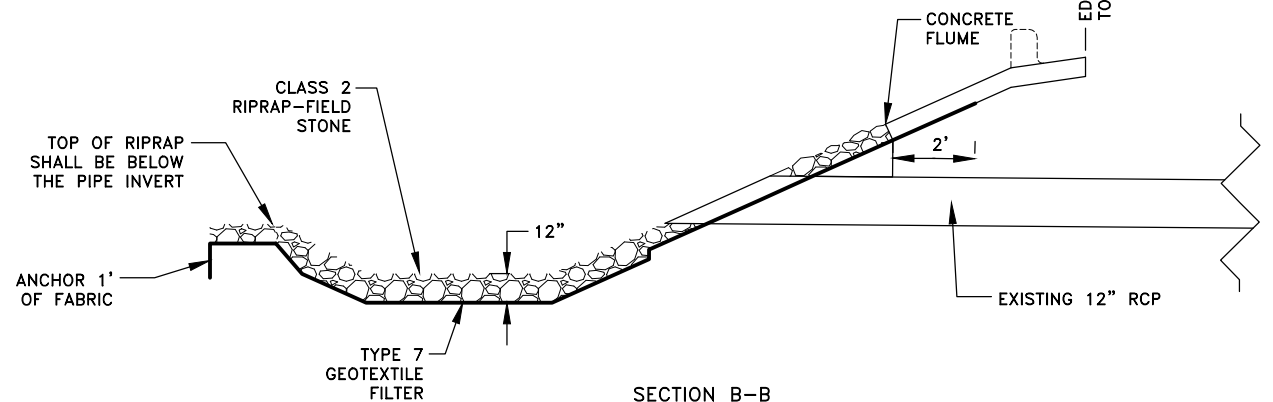
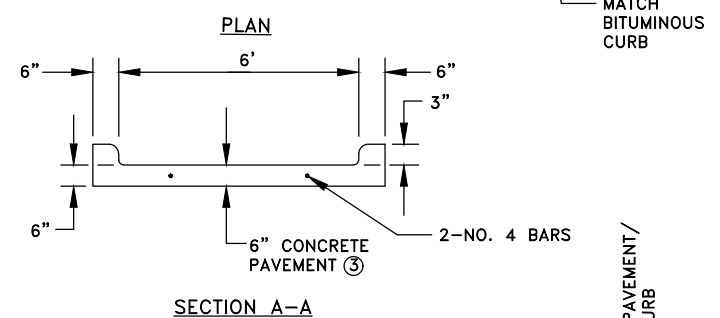
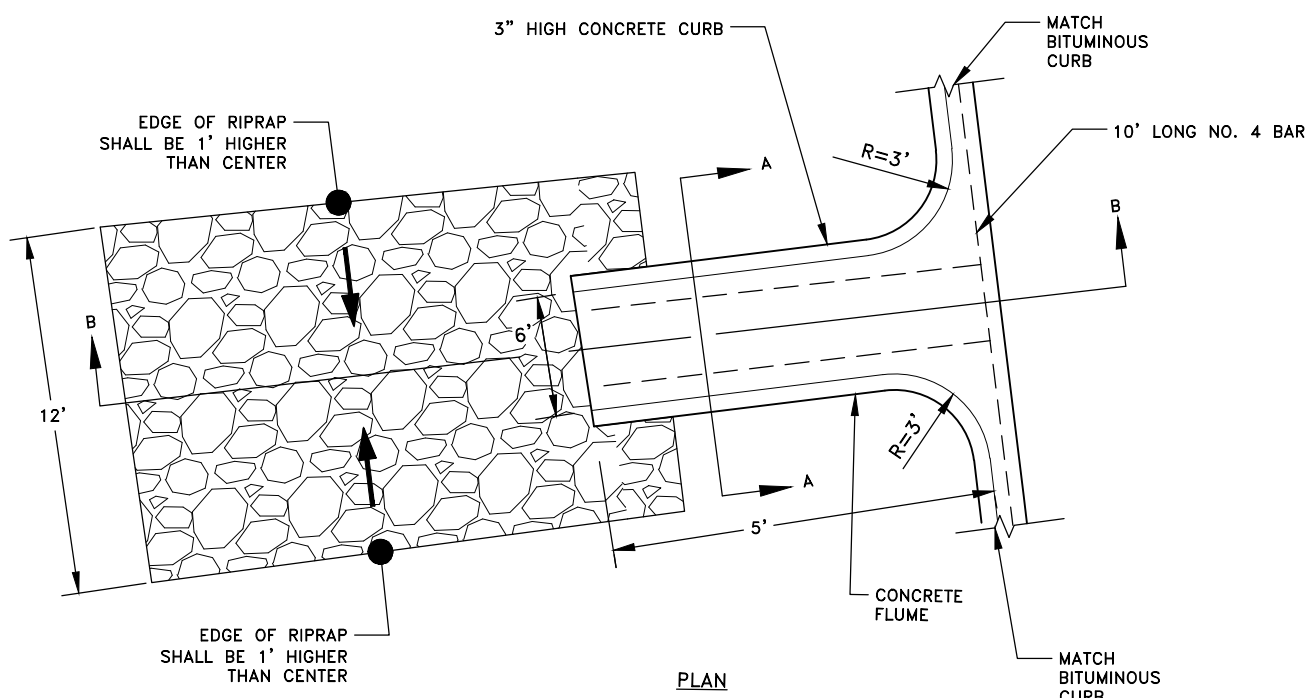
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1
3
TYPICAL OVERLAY SECTION



2
3
MODIFIED OVERLAY SECTION



3
3
CONCRETE FLUME DETAIL ②
NO SCALE

- 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 ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED TO CONSTRUCT THE FLUME AND RIPRAP, INCLUDING EXCAVATION AND DISPOSAL OF EXCESS MATERIAL, SHALL BE PAID PER THE ITEMS INCLUDED ON THE BID FORM.
 - ③ CONSTRUCTION OF ALL CONCRETE WORK ON THE FLUME SHALL BE PAID PER ITEM 2411-CONCRETE FLUME.

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CRAIG J. JOCHUM, P.E.
Date 5/8/23 Lic. No. 23461

DESIGNED BY:
CJJ
DRAWN BY:
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TAE



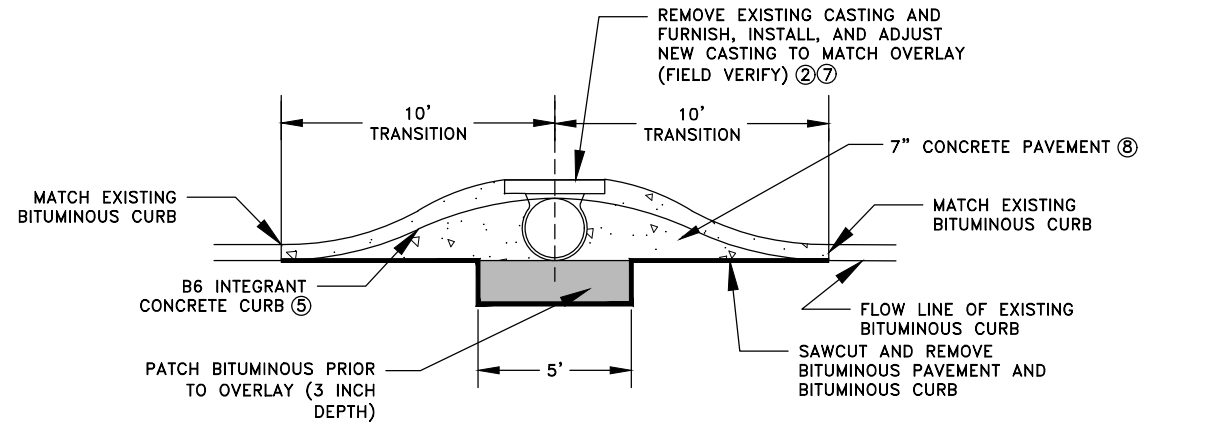
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IMPROVEMENT PROJECT

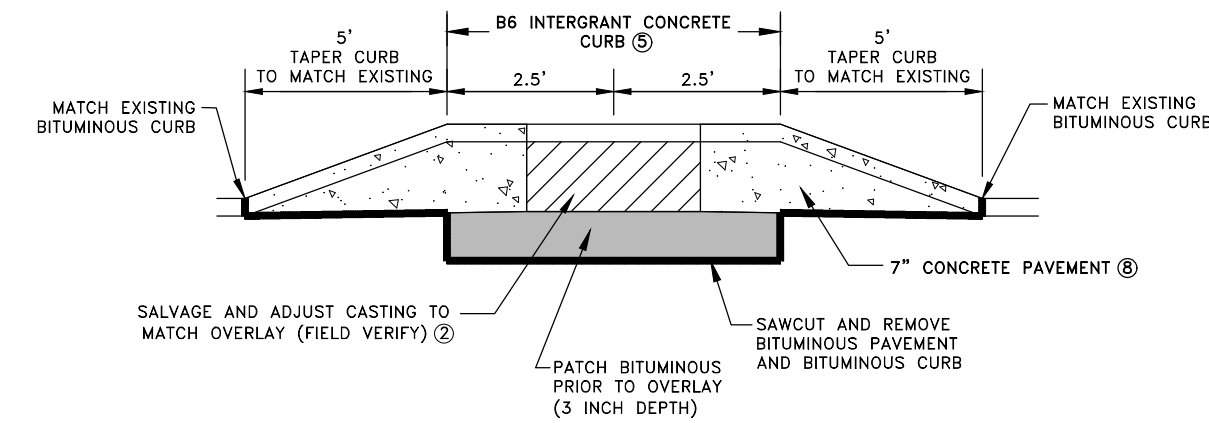
TYPICAL SECTIONS AND DETAILS
CITY OF EAST BETHEL, MINNESOTA

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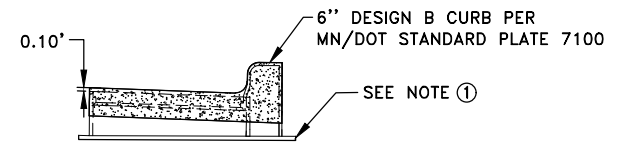
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PLAN VIEW - CIRCULAR CASTING INLET

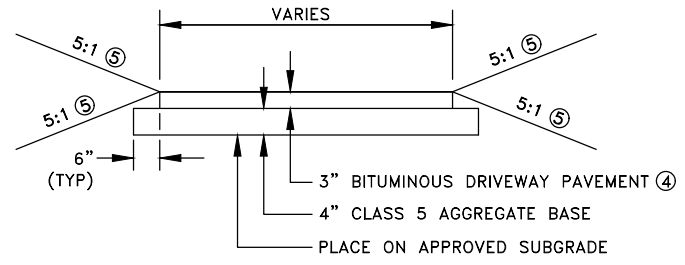


PLAN VIEW - RECTANGULAR CASTING INLET

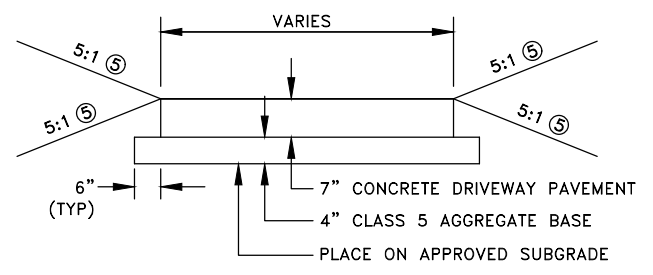


CURB PROFILE (DESIGN B CURB)

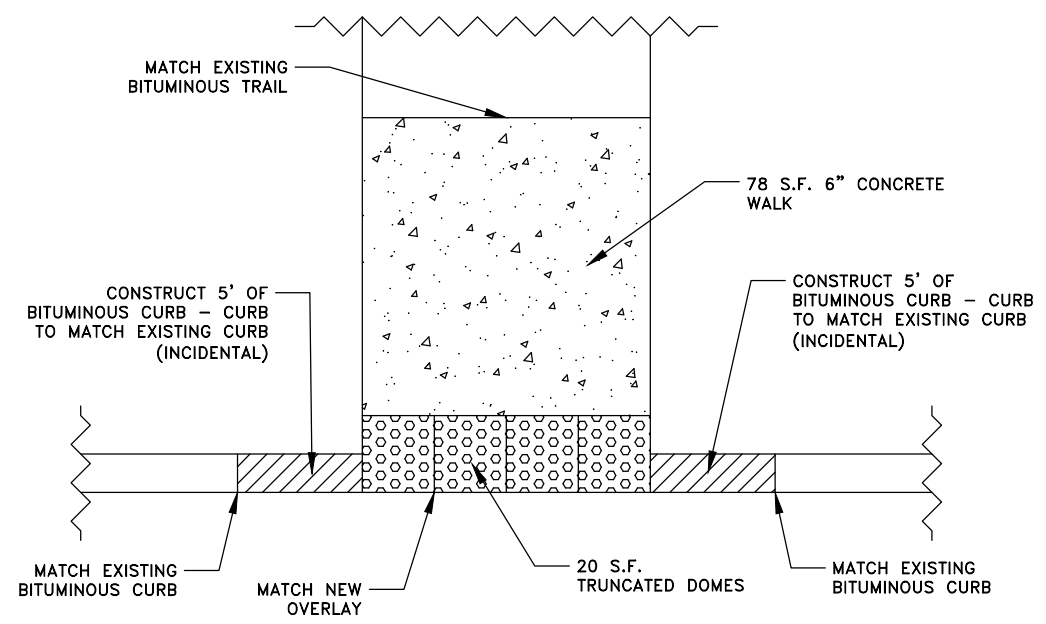
①
4 ADJUST FRAME & RING CASTING ③
NO SCALE



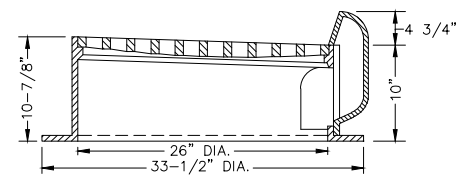
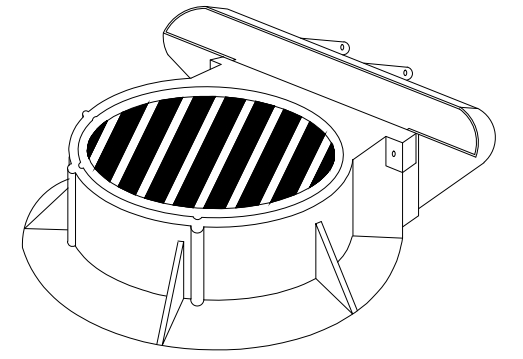
②
4 BITUMINOUS DRIVEWAY SECTION
NO SCALE



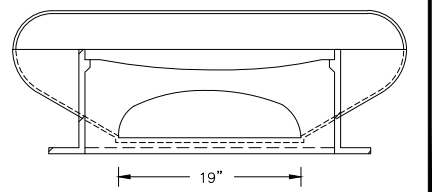
③
4 CONCRETE DRIVEWAY SECTION
NO SCALE



④
4 PEDESTRIAN RAMP DETAIL ⑥
NO SCALE



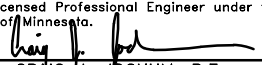
INLET ASSEMBLY
NEENAH FOUNDRY NO. R-3250-1 OR APPROVED EQUAL.
SEE CITY STANDARD PLATE 703 FOR CURB & GUTTER CONSTRUCTION AT CATCH BASIN.
ESS BROTHERS CASTING 801M MODIFIED IS AN APPROVED EQUAL.



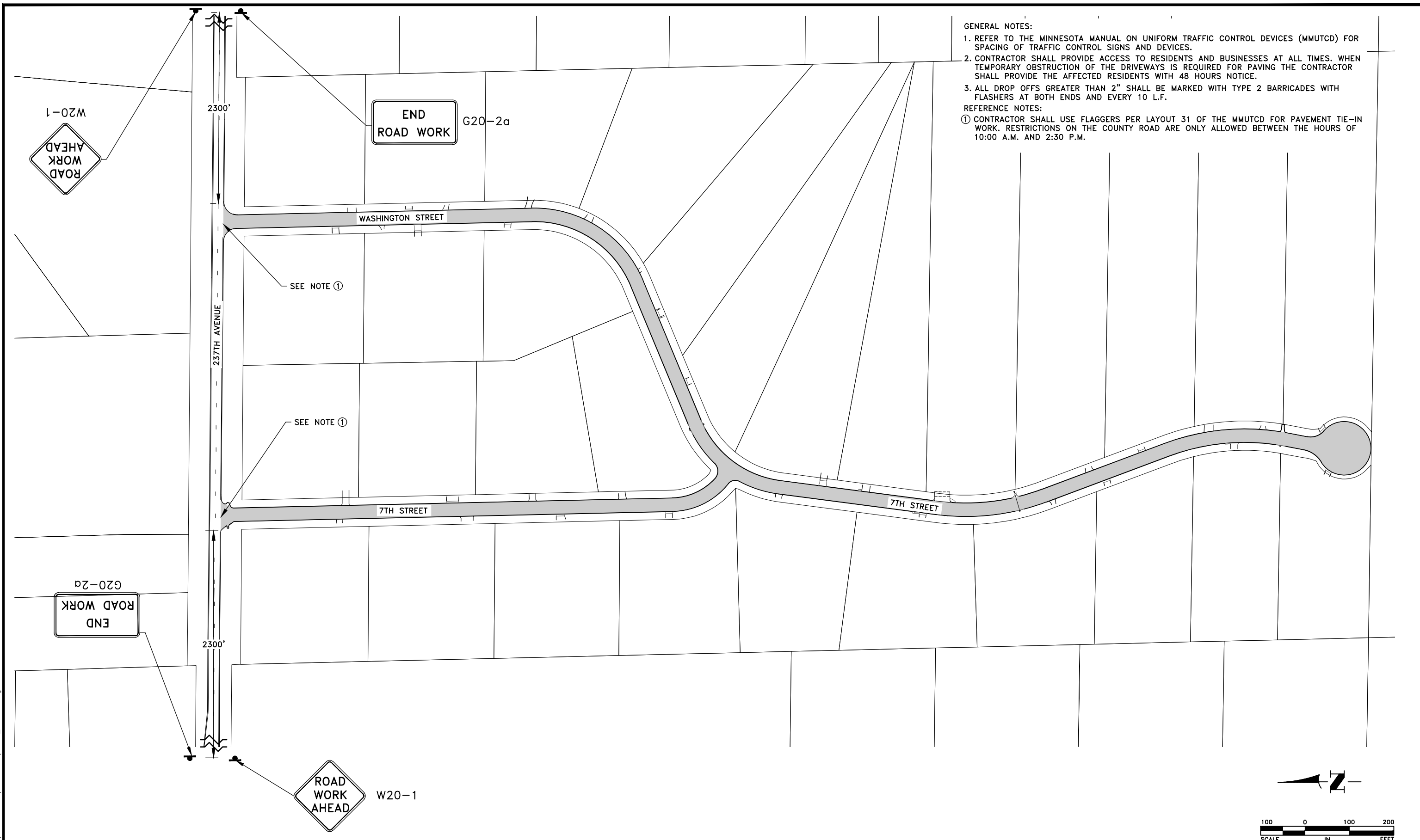
INLET CASTING
NO SCALE

APPROVED 3-02-05 REVISED		CITY OF EAST BETHEL	STANDARD PLATE No. 705
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- REFERENCE NOTES:
- ① GROUT PERIMETER OF CATCH BASIN AND ADJUSTING RINGS PER MN/DOT STANDARD PLATE 4026.
 - ② CONTRACTOR SHALL REMOVE OR SALVAGE EXISTING CASTING AS NOTED AND REMOVE ALL EXISTING RINGS AND RAISE CASTING USING NEW CONCRETE ADJUSTING RINGS TO MATCH NEW OVERLAY. AFTER ADJUSTING THE CASTING, RE-GROUT THE NEW RINGS AND ALL DOGHOUSES.
 - ③ PAY ITEM 2506-ADJUST FRAME AND RING CASTING SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS TO SAWCUT AND REMOVE BITUMINOUS, ADJUST AND INSTALL CASTING, GROUT RINGS AND DOGHOUSES, AND PATCH BITUMINOUS.
 - ④ BITUMINOUS DRIVEWAY PAVEMENT SHALL BE PAID PER ITEM 2360-TYPE SP 9.5 WEARING COURSE MIXTURE (2,B) 3.0" THICK.
 - ⑤ PAID PER ITEM 2301-INTEGRANT CURB DESIGN B6.
 - ⑥ RAMP SHALL MEET ALL ADA REQUIREMENTS.
 - ⑦ NEW CASTINGS SHALL MEET THE REQUIREMENTS OF CITY STANDARD PLATE 705 SHOWN ON THIS SHEET.
 - ⑧ THIS ITEM SHALL BE PAID PER ITEM 2531-7" CONCRETE DRIVEWAY PAVEMENT.

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 5/8/23 Lic. No. 23461	DESIGNED BY: CJJ DRAWN BY: SGJ CHECKED BY: TAE	 Hakanson Anderson Civil Engineers and Land Surveyors 3601 Thurston Ave., Anoka, Minnesota 55303 763-427-5860 FAX 763-427-0520 www.hakanson-anderson.com	2023 EAST BETHEL STREET SURFACE IMPROVEMENT PROJECT	DETAILS CITY OF EAST BETHEL, MINNESOTA	SHEET 4 OF 20 SHEETS EB361
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- 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. 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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Craig J. Jochum
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2023 EAST BETHEL STREET SURFACE
IMPROVEMENT PROJECT

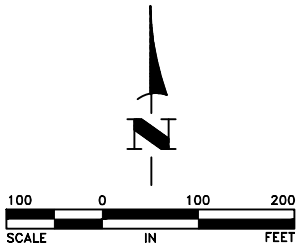
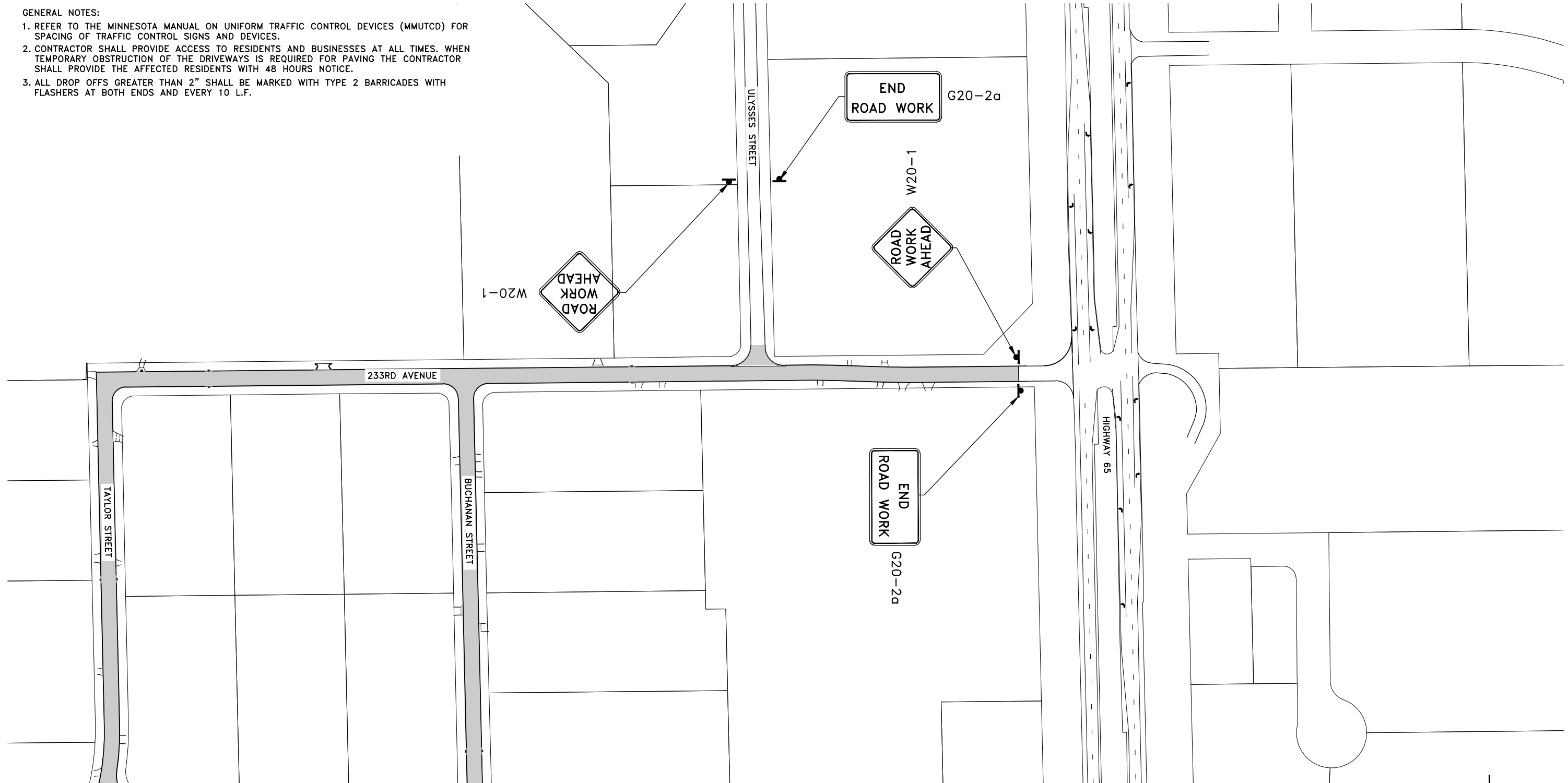
TRAFFIC CONTROL PLAN

WEST HALF
CITY OF EAST BETHEL, MINNESOTA

SHEET
5
OF
20
SHEETS

GENERAL NOTES:

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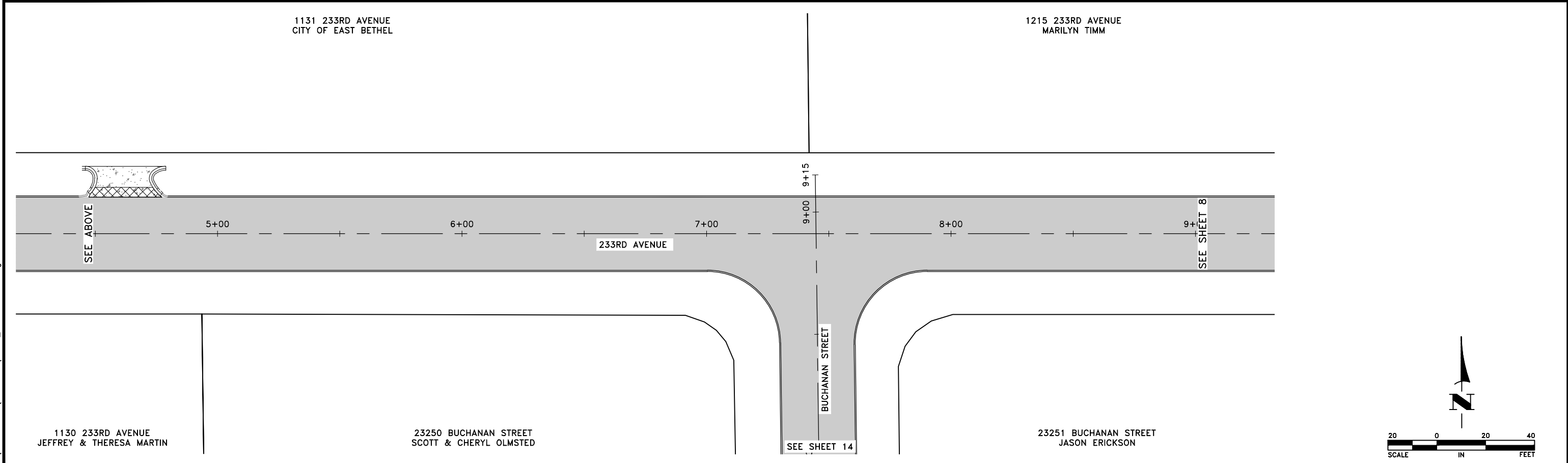
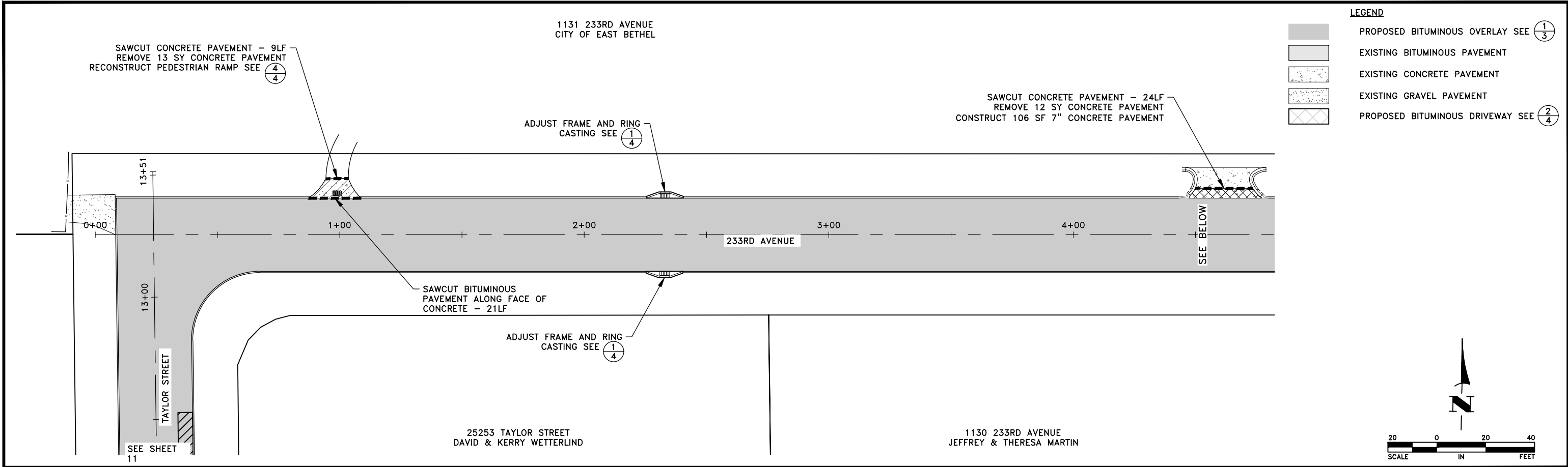
2023 EAST BETHEL STREET SURFACE IMPROVEMENT PROJECT

TRAFFIC CONTROL PLAN

EAST HALF
CITY OF EAST BETHEL, MINNESOTA

SHEET 6 OF 20 SHEETS

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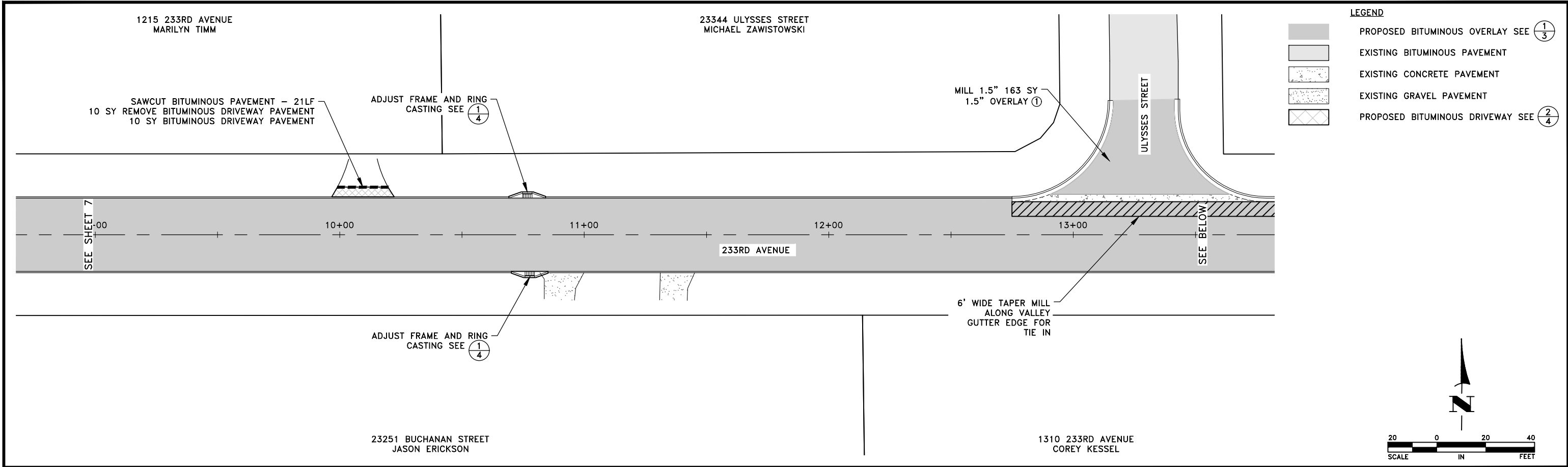
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2023 EAST BETHEL STREET SURFACE IMPROVEMENT PROJECT

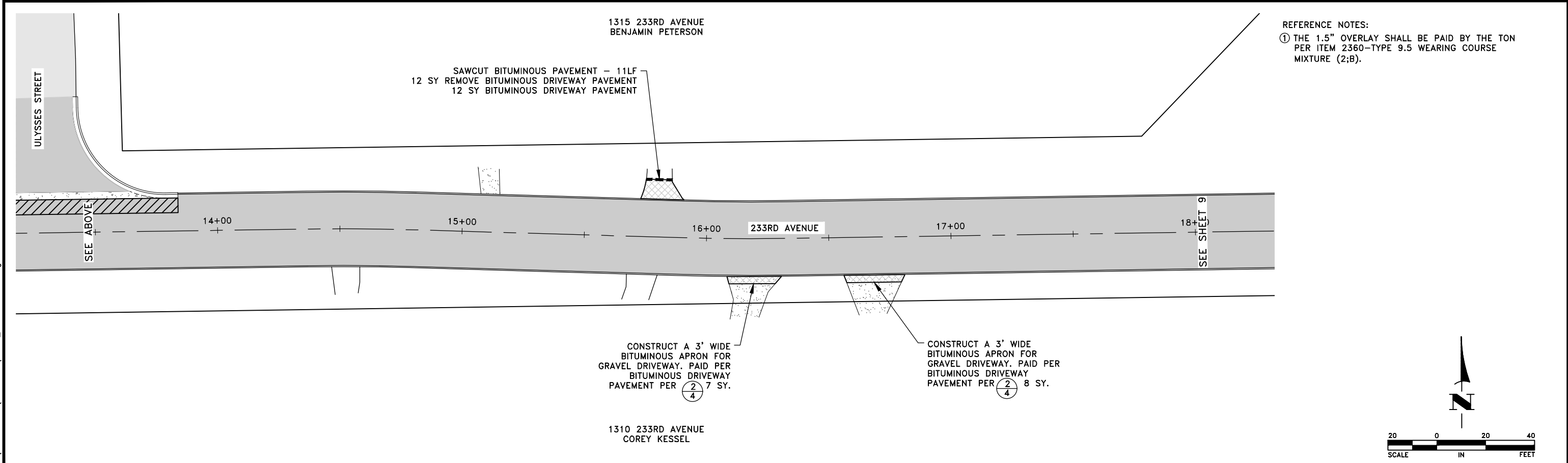
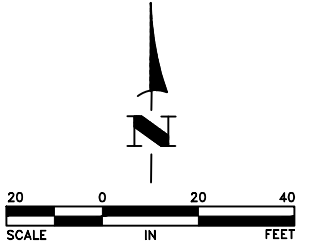
CONSTRUCTION PLANS
233RD AVENUE
CITY OF EAST BETHEL, MINNESOTA

SHEET 7 OF 20 SHEETS

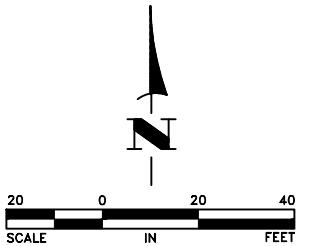
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- LEGEND**
- PROPOSED BITUMINOUS OVERLAY SEE 1/3
 - EXISTING BITUMINOUS PAVEMENT
 - EXISTING CONCRETE PAVEMENT
 - EXISTING GRAVEL PAVEMENT
 - PROPOSED BITUMINOUS DRIVEWAY SEE 2/4

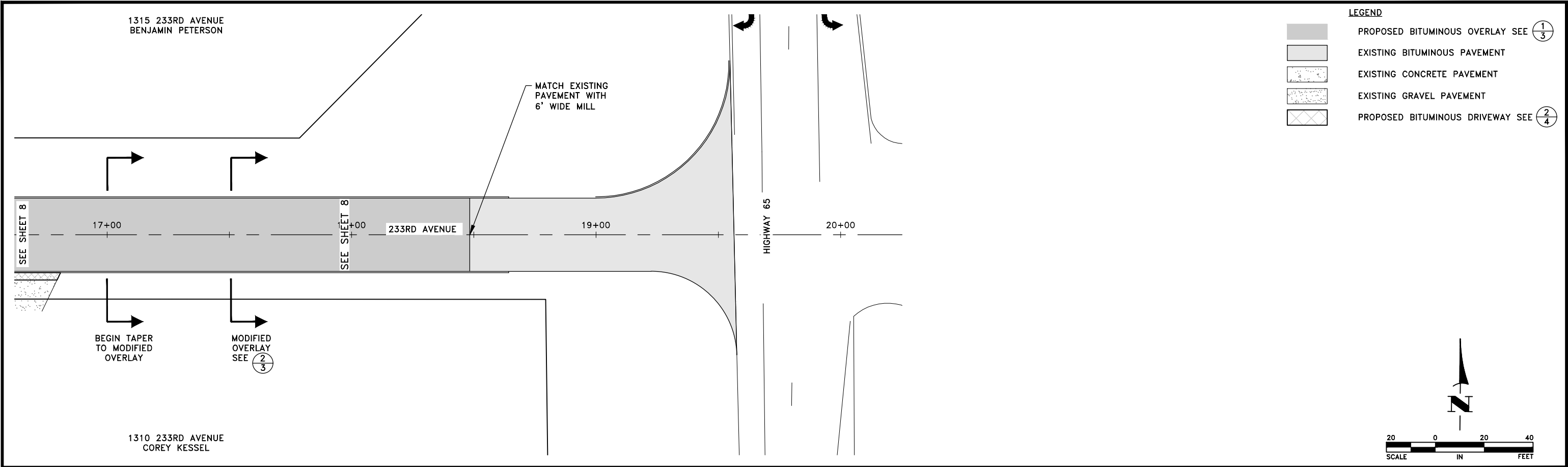


REFERENCE NOTES:
① THE 1.5" OVERLAY SHALL BE PAID BY THE TON PER ITEM 2360-TYPE 9.5 WEARING COURSE MIXTURE (2;B).



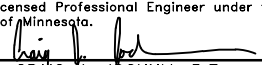
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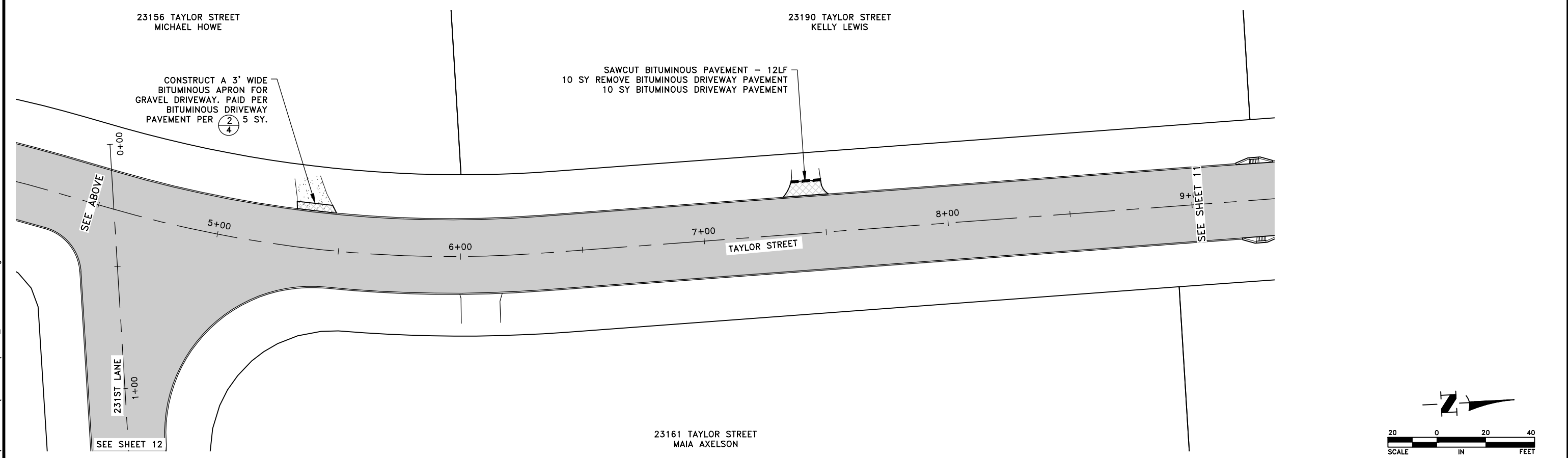
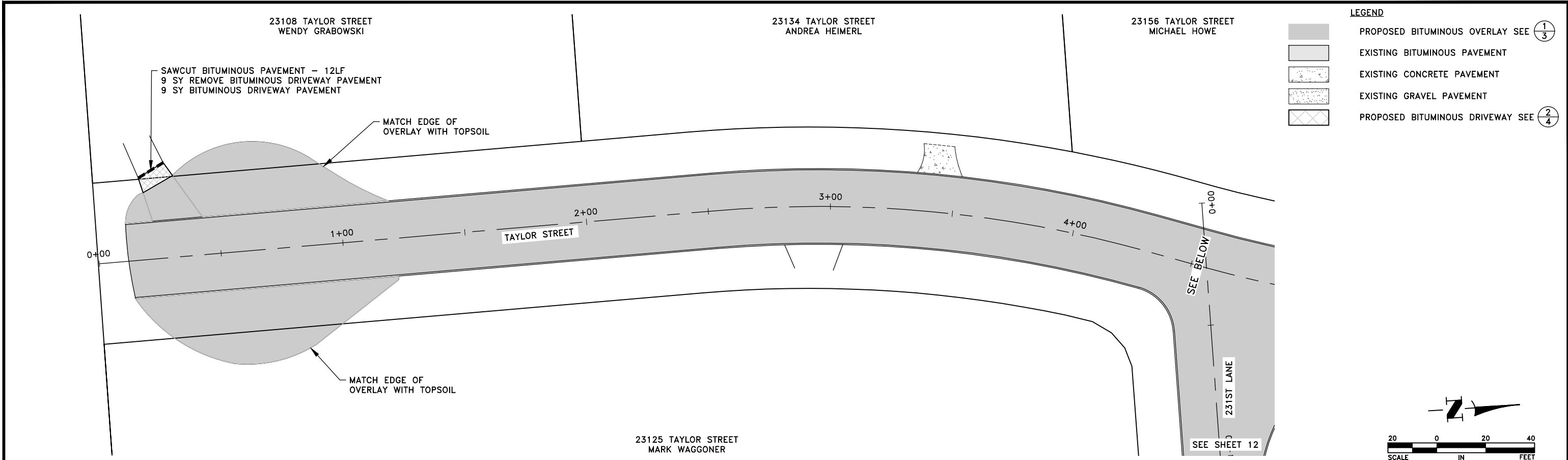
2023 EAST BETHEL STREET SURFACE
IMPROVEMENT PROJECT

CONSTRUCTION PLANS

233RD AVENUE
CITY OF EAST BETHEL, MINNESOTA

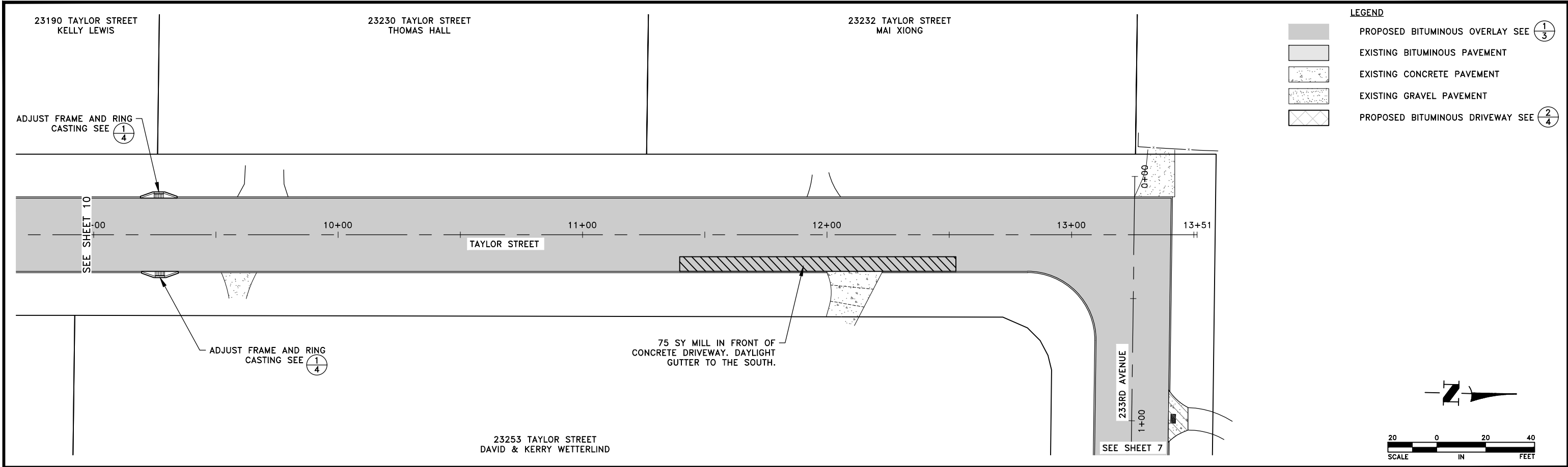
SHEET
9
OF
20
SHEETS

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		DESIGNED BY: CJJ					
		DRAWN BY: SGJ					
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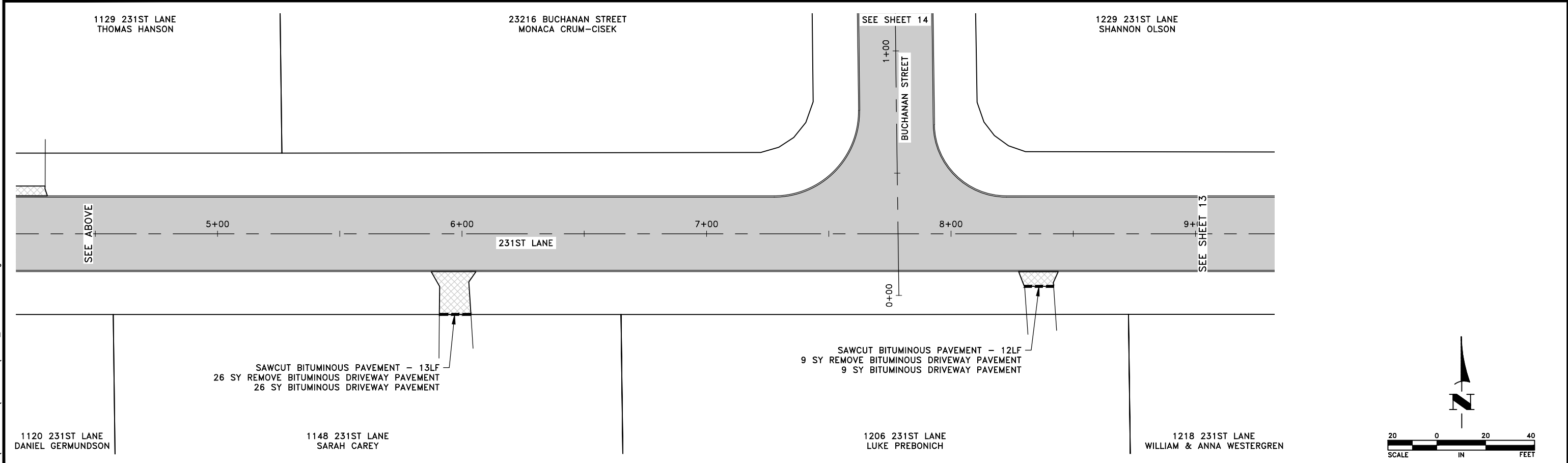
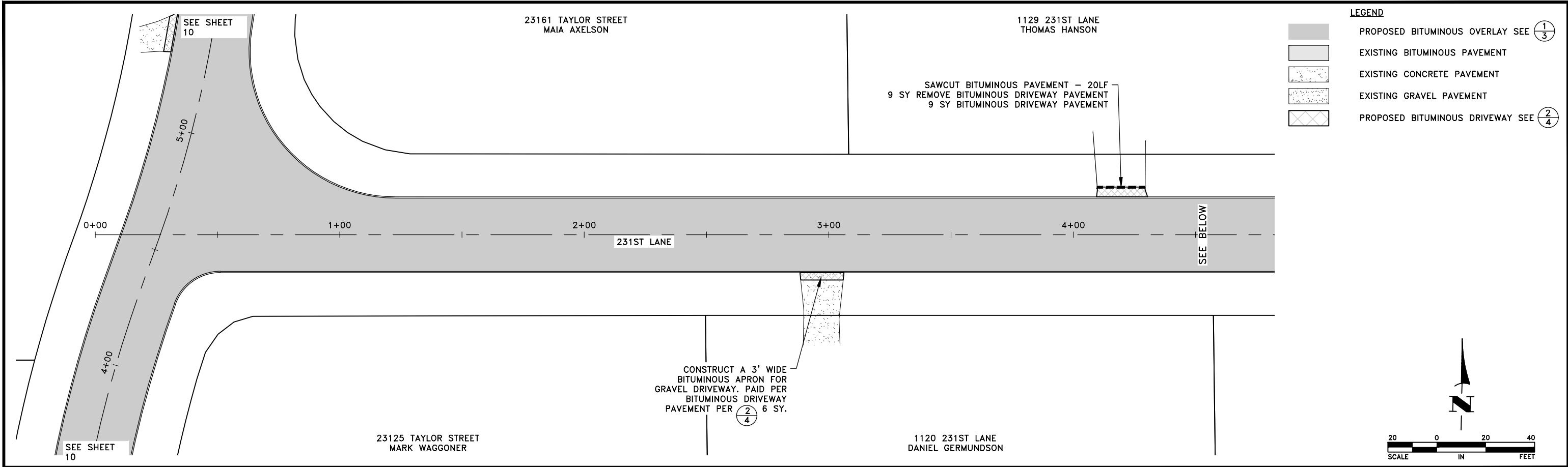
**2023 EAST BETHEL STREET SURFACE
IMPROVEMENT PROJECT**

CONSTRUCTION PLANS

TAYLOR STREET
CITY OF EAST BETHEL, MINNESOTA

SHEET
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OF
20
SHEETS

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1229 231ST LANE
SHANNON OLSON

SAWCUT BITUMINOUS PAVEMENT - 16LF
14 SY REMOVE BITUMINOUS DRIVEWAY PAVEMENT
14 SY BITUMINOUS DRIVEWAY PAVEMENT

MATCH EDGE OF
OVERLAY WITH TOPSOIL

SAWCUT BITUMINOUS PAVEMENT - 16LF
19 SY REMOVE BITUMINOUS DRIVEWAY
PAVEMENT
19 SY BITUMINOUS DRIVEWAY PAVEMENT
SEE 1/13

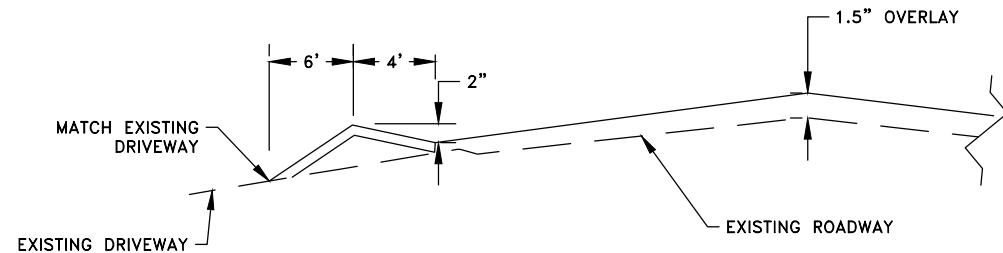
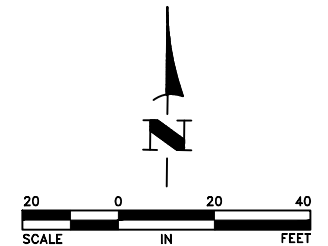
MATCH EDGE OF
OVERLAY WITH TOPSOIL

1218 231ST LANE
WILLIAM & ANNA WESTERGREN

1234 231ST LANE
THOMAS STRUCKMAN

LEGEND

- PROPOSED BITUMINOUS OVERLAY SEE 1/3
- EXISTING BITUMINOUS PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING GRAVEL PAVEMENT
- PROPOSED BITUMINOUS DRIVEWAY SEE 2/4



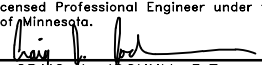
1/13

DRIVEWAY DETAIL

NO SCALE

DATE	REVISION

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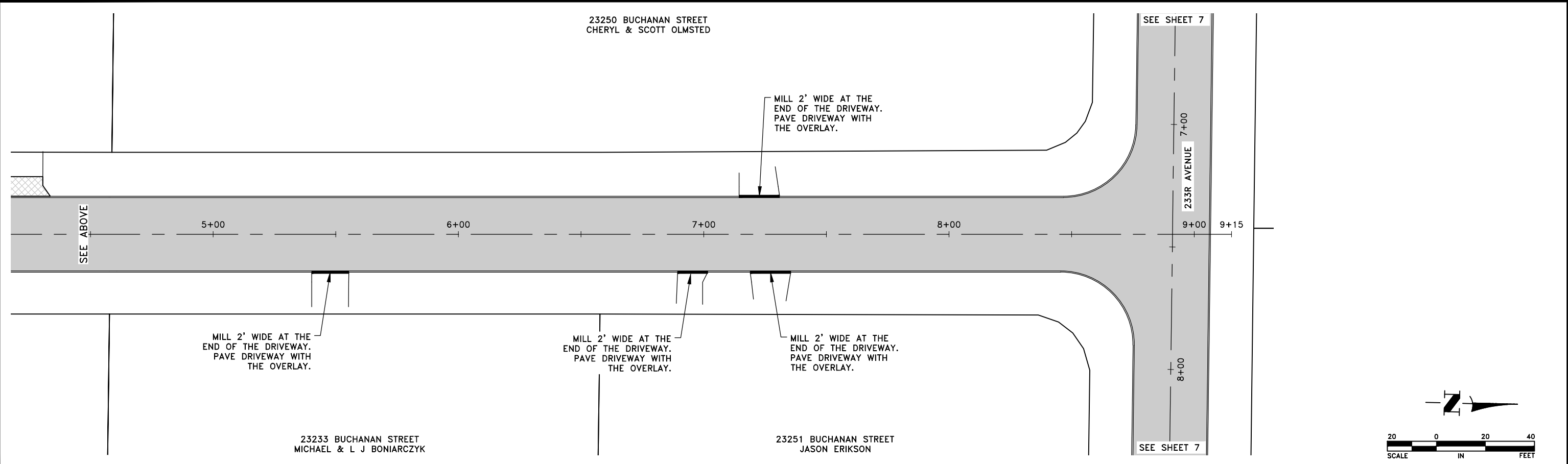
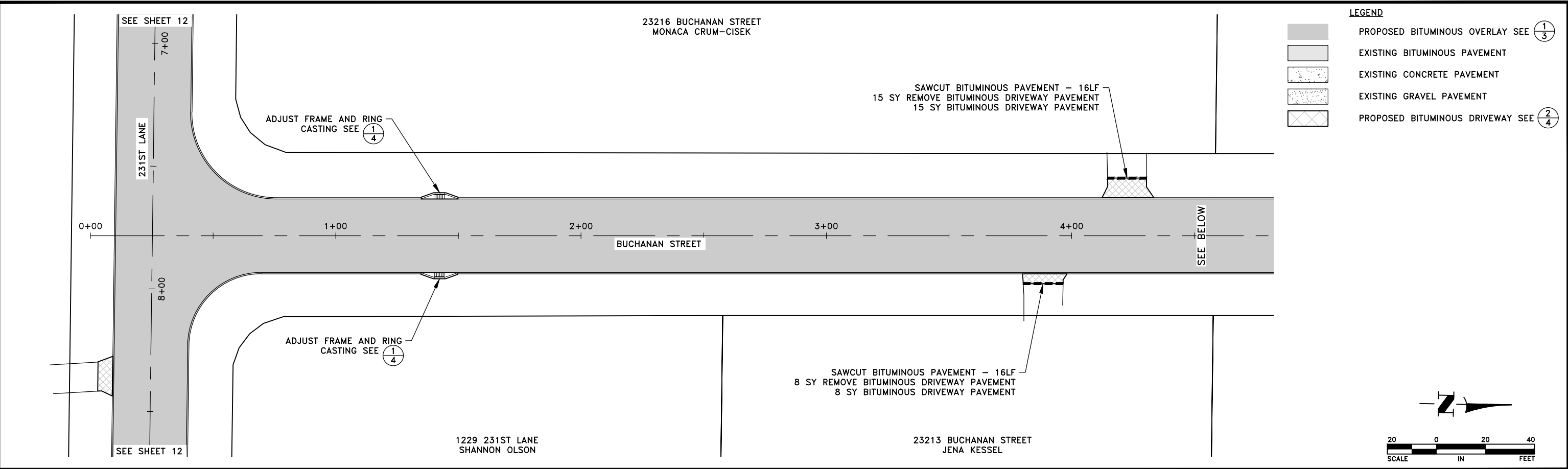
2023 EAST BETHEL STREET SURFACE
IMPROVEMENT PROJECT

CONSTRUCTION PLANS

231ST LANE
CITY OF EAST BETHEL, MINNESOTA

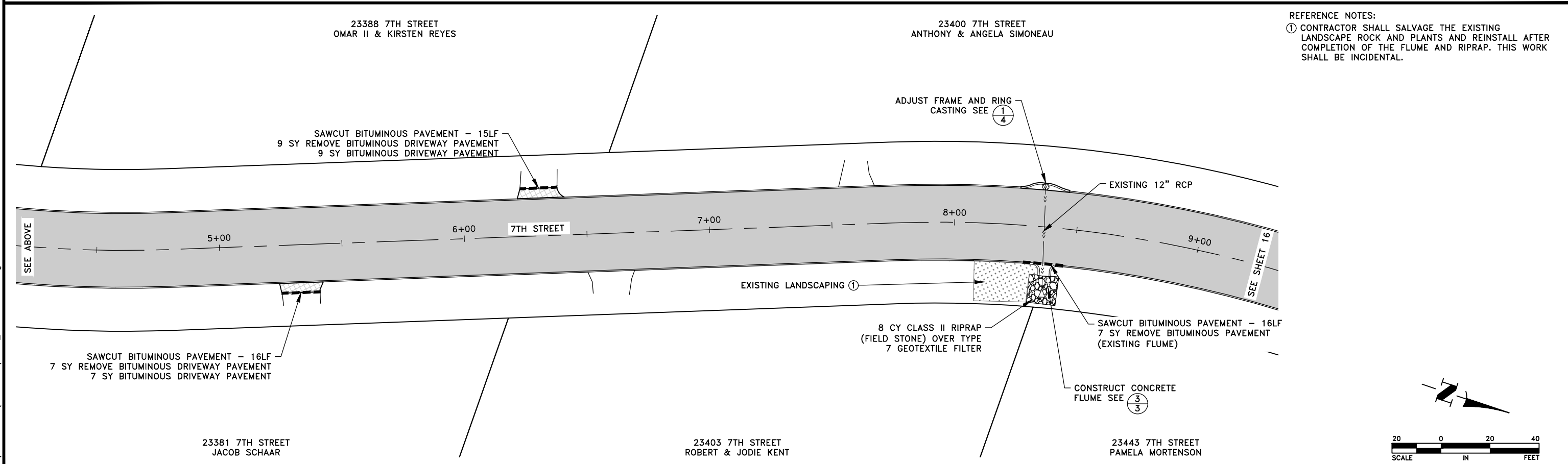
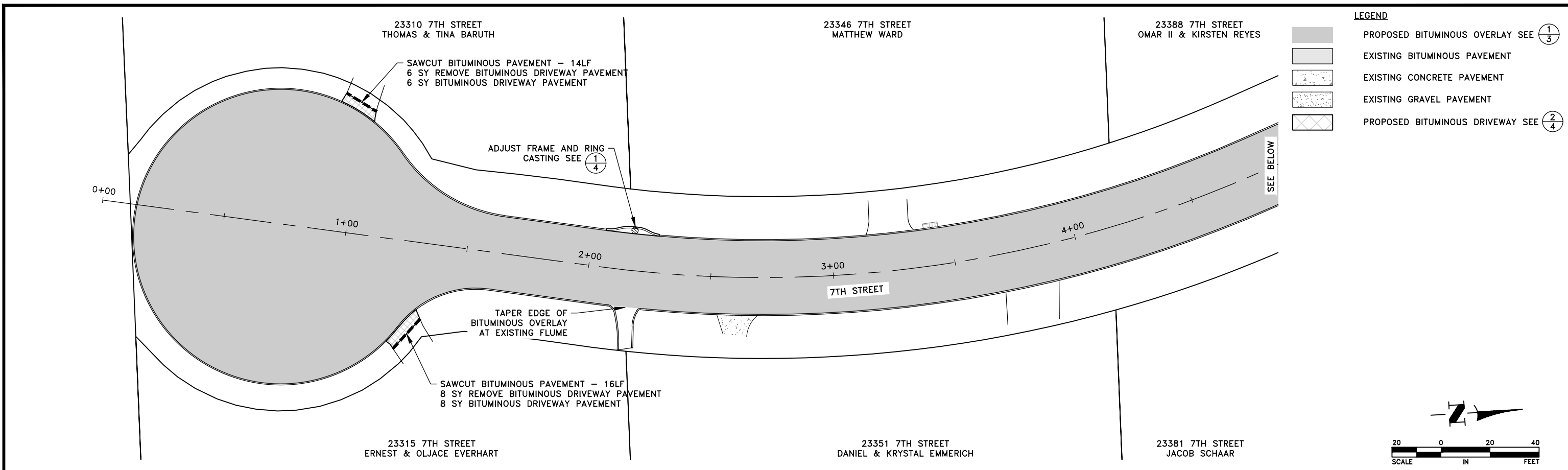
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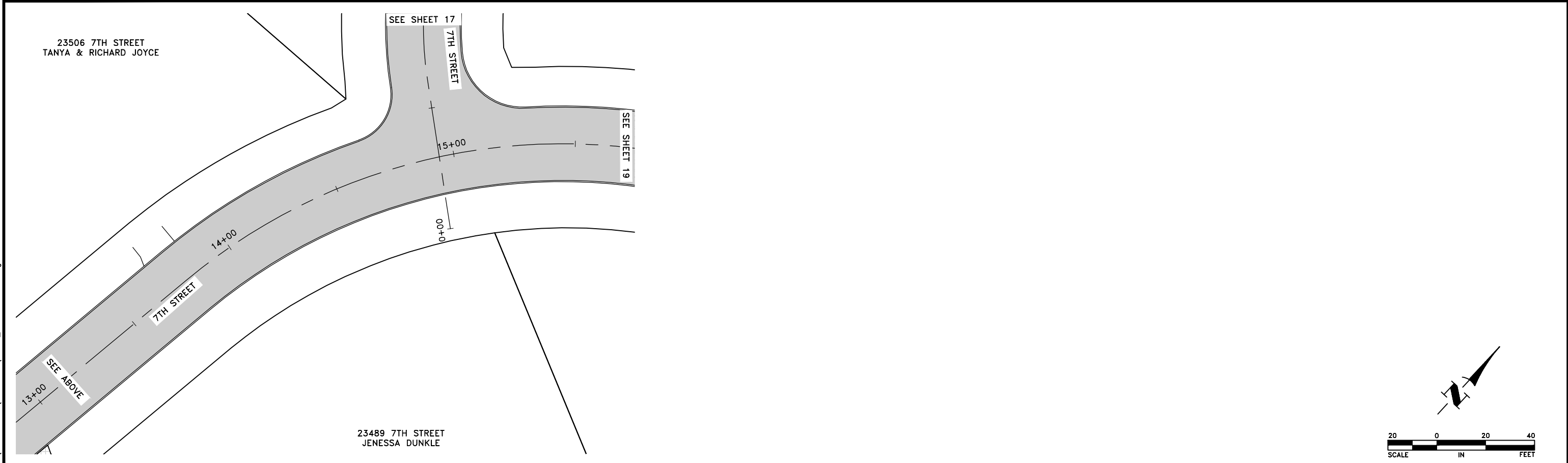
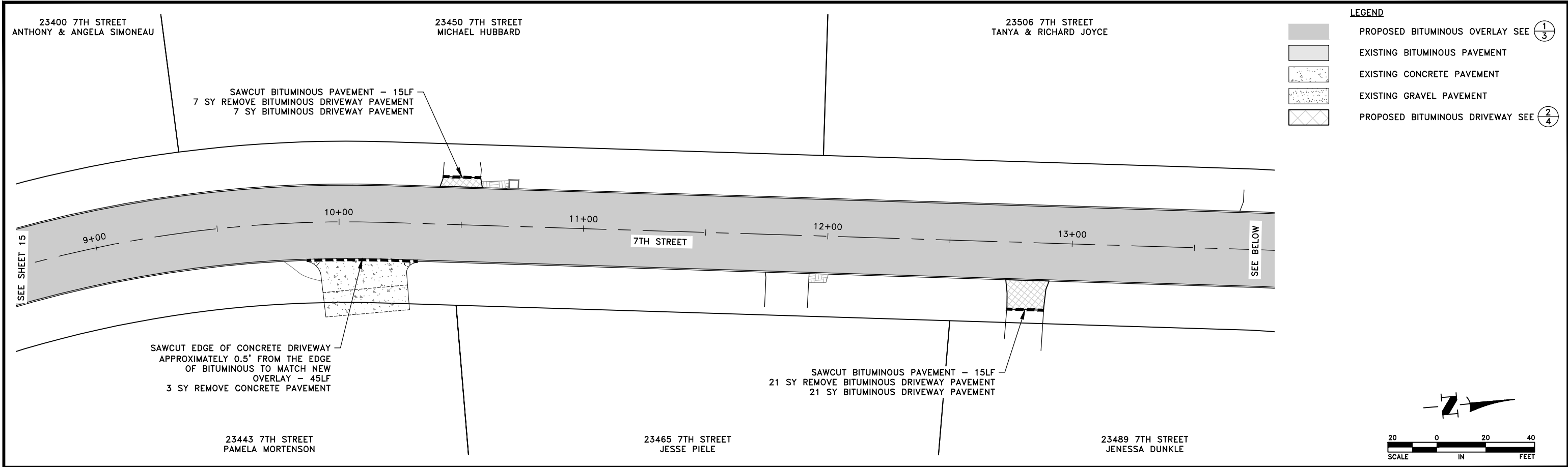


<table border="1"><thead><tr><th>DATE</th><th>REVISION</th></tr></thead><tbody><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></tbody></table>		DATE	REVISION											I hereby certify that this plan, specification, 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. <i>Craig J. Jochum</i> CRAIG J. JOCHUM, P.E. Date 5/8/23 Lic. No. 23461	<table border="1"><tr><td>DESIGNED BY: CJJ</td></tr><tr><td>DRAWN BY: SGJ</td></tr><tr><td>CHECKED BY: TAE</td></tr></table>	DESIGNED BY: CJJ	DRAWN BY: SGJ	CHECKED BY: TAE	 Hakanson Anderson Civil Engineers and Land Surveyors 3601 Thurston Ave., Anoka, Minnesota 55303 763-427-5860 FAX 763-427-0520 www.hakanson-anderson.com	2023 EAST BETHEL STREET SURFACE IMPROVEMENT PROJECT	CONSTRUCTION PLANS BUCHANAN STREET CITY OF EAST BETHEL, MINNESOTA	<table border="1"><tr><td>SHEET 14</td><td>OF 20 SHEETS</td></tr></table>	SHEET 14	OF 20 SHEETS
DATE	REVISION																							
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SHEET 14	OF 20 SHEETS																							

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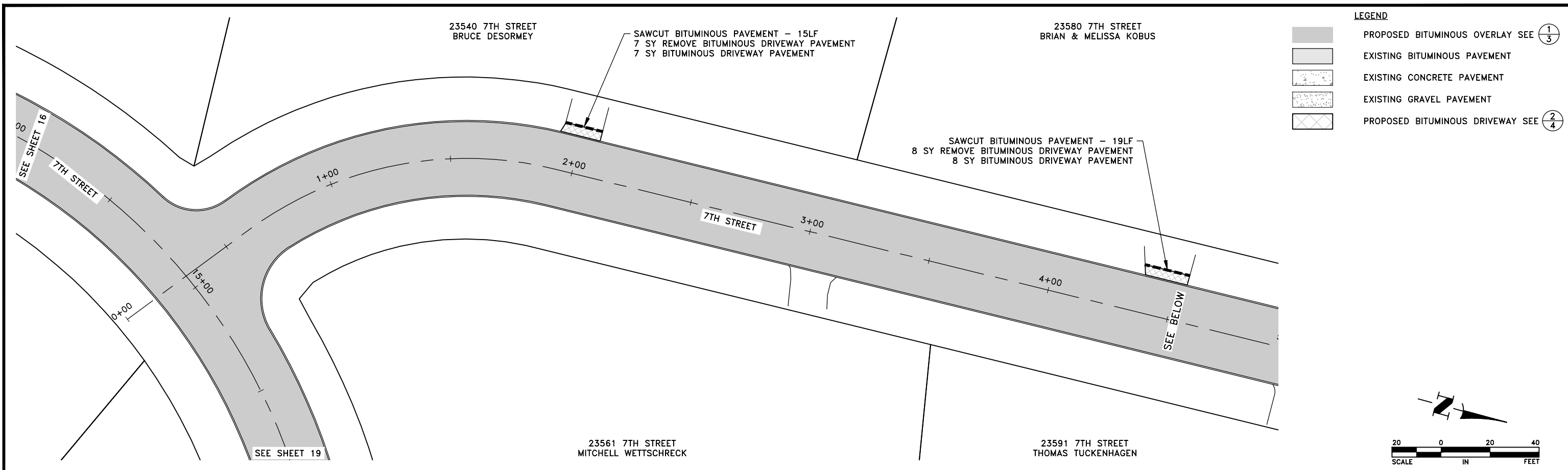
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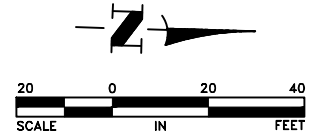
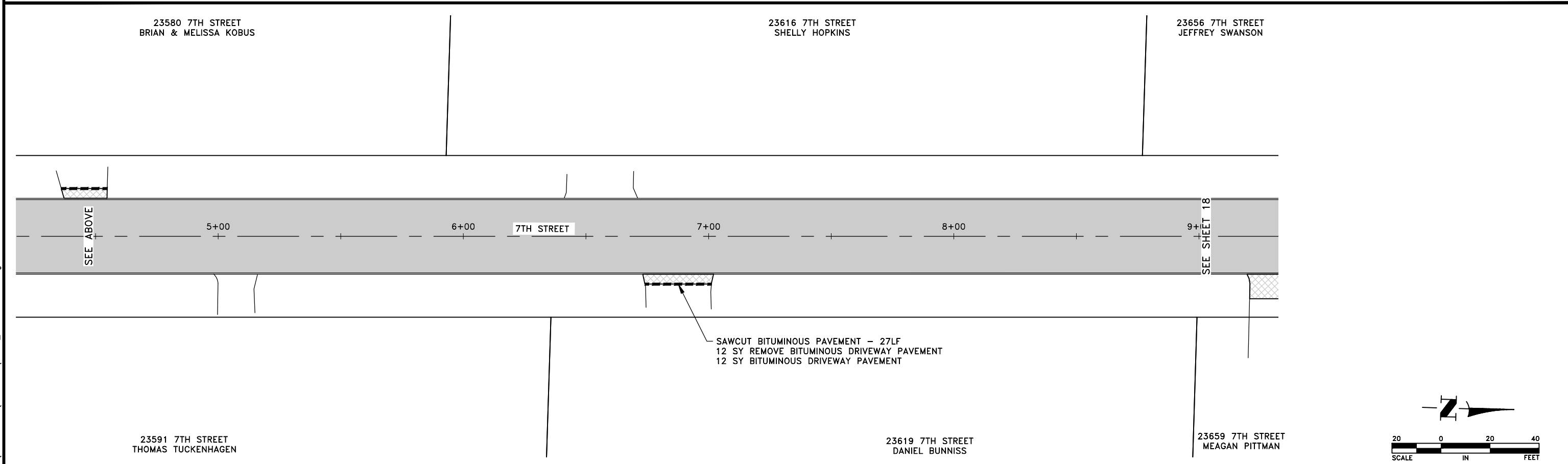
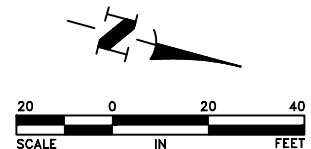
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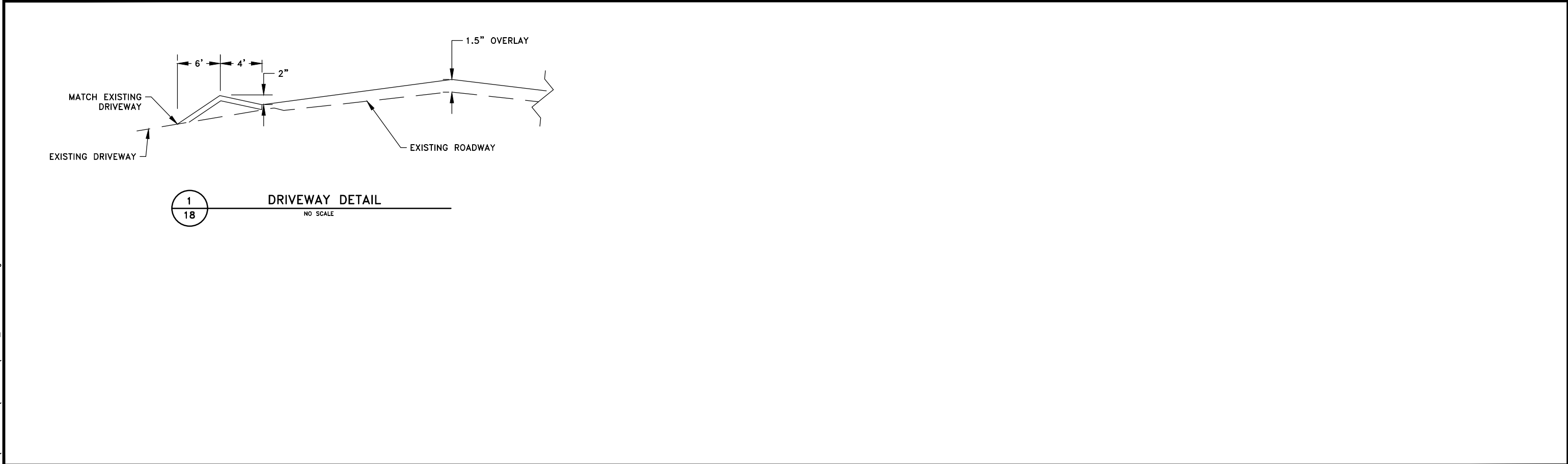
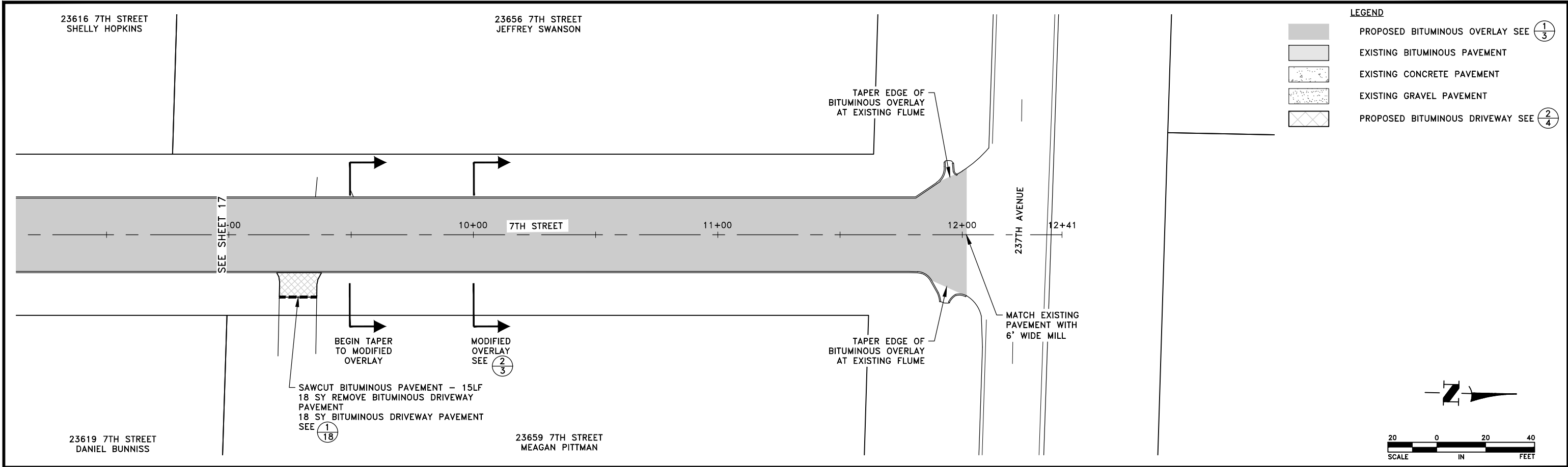
LEGEND

	PROPOSED BITUMINOUS OVERLAY SEE ①/③
	EXISTING BITUMINOUS PAVEMENT
	EXISTING CONCRETE PAVEMENT
	EXISTING GRAVEL PAVEMENT
	PROPOSED BITUMINOUS DRIVEWAY SEE ②/④



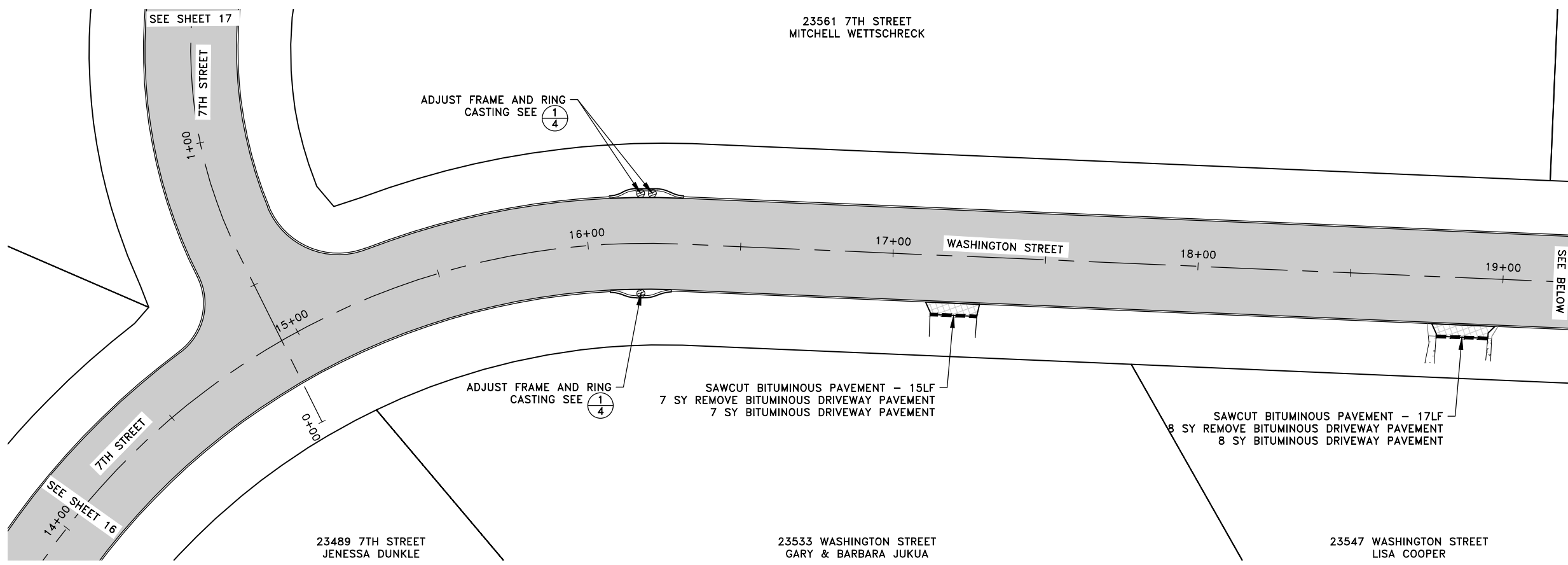
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				CHECKED BY: TAE					

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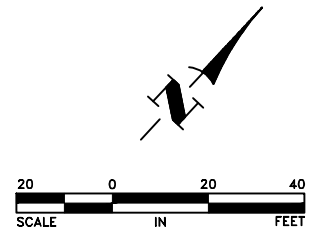
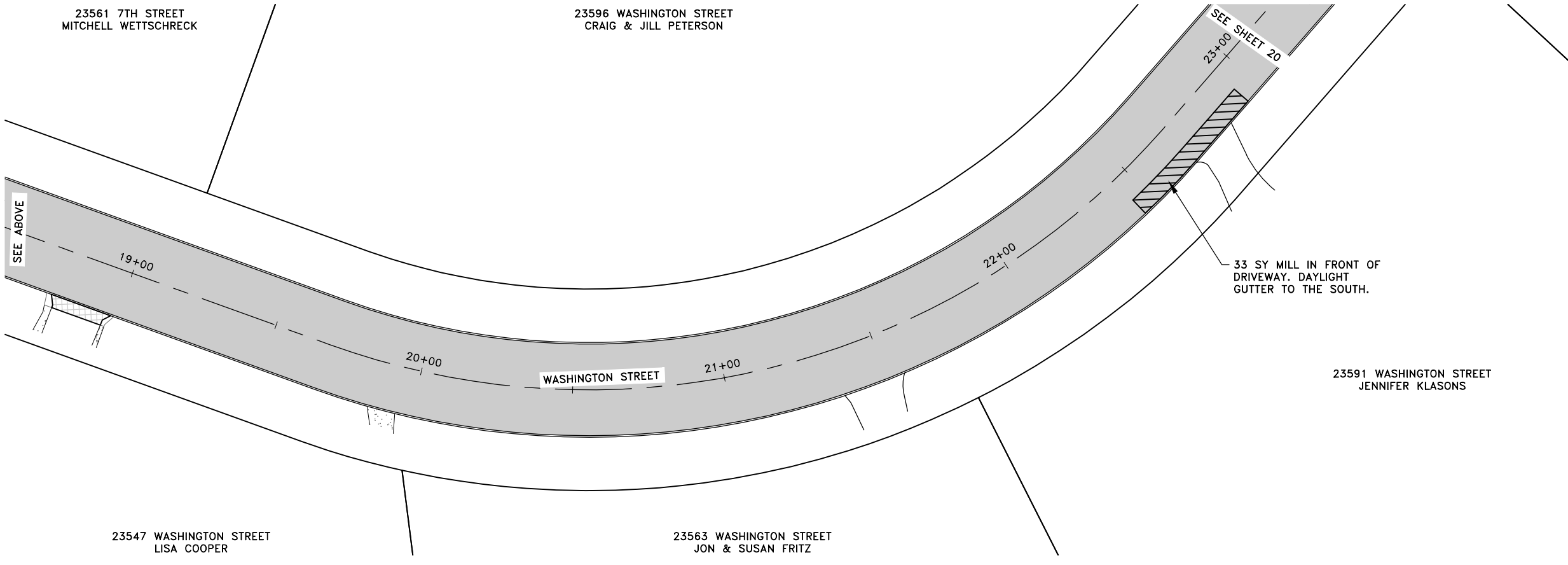
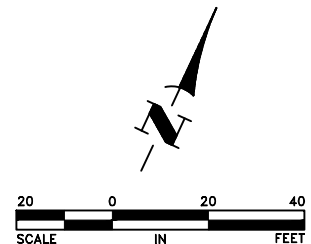
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LEGEND

	PROPOSED BITUMINOUS OVERLAY SEE 1/3
	EXISTING BITUMINOUS PAVEMENT
	EXISTING CONCRETE PAVEMENT
	EXISTING GRAVEL PAVEMENT
	PROPOSED BITUMINOUS DRIVEWAY SEE 2/4



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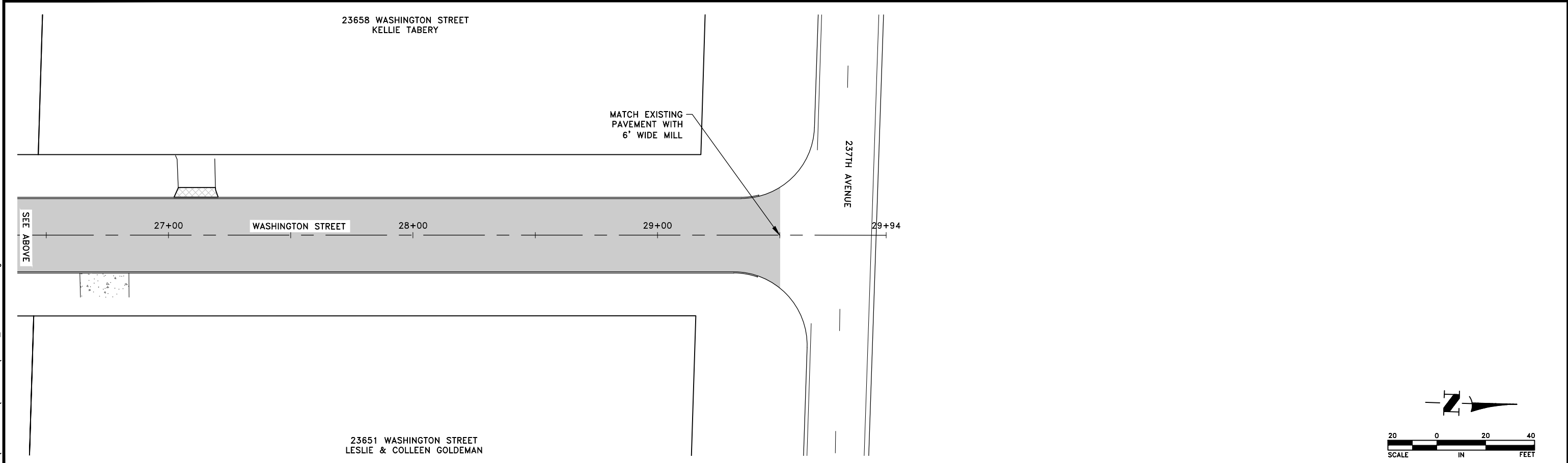
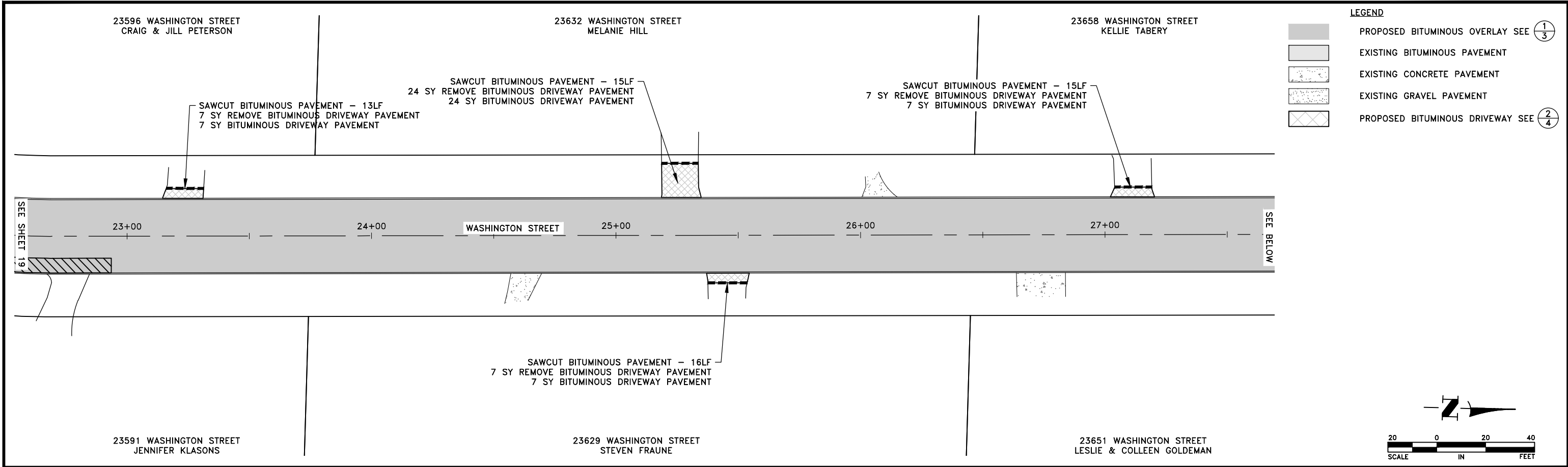
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**2023 EAST BETHEL STREET SURFACE
IMPROVEMENT PROJECT**

CONSTRUCTION PLANS
WASHINGTON STREET
CITY OF EAST BETHEL, MINNESOTA

SHEET
19
OF
20
SHEETS

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