



North Dakota Department of Transportation

Thomas K. Sorel
Director

Doug Burgum
Governor

November 1, 2018

ADDENDUM 2 – JOB 3

TO: All prospective bidders on Project SU-8-992(040)041, Job No. 3 scheduled for the November 9, 2018 bid opening.

The following plans and request for proposal revision shall be made:

Plan Revisions:

See attached summary from Kevin J. Knott, P.E. dated October 31, 2018 for an explanation.

Request for Proposal Revisions:

Remove and replace pages 5 thru 15 of 17 of the Proposal pages located at the beginning of the Request for Proposal with pages revised 11/1/2018.

The following changes were made to the Bid Items:

Spec	Code	Description	Unit	Previous Quantity	Revised Quantity
251	0300	SEEDING CLASS III	ACRE	16.19	16.04
253	0201	HYDRAULIC MULCH	ACRE	34.19	34.14
302	0121	AGGREGATE BASE COURSE CL 5	CY	19,812	19,847
302	0050	TRAFFIC SERVICE AGGREGATE	TON	1,066	1,521
624	0123	PEDESTRIAN RAILING	EA	141	71
704	1000	TRAFFIC CONTROL SIGNS	UNITS	5,889	5,776
750	0107	SIDEWALK-DECORATIVE	SY	0	158
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	11,327	11,464
970	0002	LANDSCAPE EDGING	LF	1,153	1,053
970	2203	GLADIATOR CRABAPPLE	EA	17	12
970	5050	CRIMSON PYGMY BARBERRY	EA	24	12
970	5196	DAKOTA SUNSPOT POTENTILLA	EA	36	10
970	6016	DAYLILIES-CONTAINER	EA	220	175
970	6326	RUSSIAN SAGE	EA	57	33
970	7000	LITTLE BLUE STEM	EA	268	231
970	7050	KARL FORESTER	EA	256	168
970	7056	MISCANTHUS SINESIS PURPURASCENS	EA	53	25

This addendum is to be incorporated into the bidder's proposal for this project.

AASHTOWare Project Bids files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <http://www.bidx.com/> and load it into the AASHTOWare Project Bids program.

PHILLIP MURDOFF, P.E. – CONSTRUCTION SERVICES ENGINEER

80: jwj

Enclosure

608 East Boulevard Avenue • Bismarck, North Dakota 58505-0700

Information: 1-855-NDROADS (1-855-637-6237) • FAX: (701) 328-0310 • TTY: 711 • dot.nd.gov

ADDENDUM NO. 2

October 31, 2018

Project No. SU-8-992(040)041 PCN: 21569
Sheyenne Street Improvements – 40th Avenue to 32nd Avenue
West Fargo, ND

TO: All prospective bidders and suppliers on Project SU-8-992(040)041, Job No. 3, scheduled for the November 9th, 2018 bid opening.

Plan Revisions SU-8-992(040)041:

Remove and replace plan sheet:

• Section 4	Sheets	1	Revised 10/31/2018
• Section 6	Sheets	1, 2, 4, 5, 6, 7, 8, 13	Revised 10/31/2018
• Section 8	Sheets	1, 2	Revised 10/31/2018
• Section 40	Sheets	9, 12	Revised 10/31/2018
• Section 55	Sheets	9, 12	Revised 10/31/2018
• Section 60	Sheets	9, 12	Revised 10/31/2018
• Section 75	Sheets	11, 14	Revised 10/31/2018
• Section 76	Sheets	9, 12	Revised 10/31/2018
• Section 77	Sheets	9, 12	Revised 10/31/2018
• Section 81	Sheets	2, 13	Revised 10/31/2018
• Section 82	Sheets	14, 21	Revised 10/31/2018
• Section 85	Sheets	1, 8	Revised 10/31/2018
• Section 90	Sheets	3, 4, 5, 7, 9, 10, 11, 12	Revised 10/31/2018
• Section 100	Sheets	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 16, 17	Revised 10/31/2018
• Section 110	Sheets	14	Revised 10/31/2018
• Section 120	Sheets	9, 12	Revised 10/31/2018
• Section 150	Sheets	23, 24	Revised 10/31/2018
• Section 170	Sheets	1, 4	Revised 10/31/2018

With the enclosed revised sheets.

Add plan sheet:

• Section 6	Sheets	8A	Revised 10/31/2018
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With the enclosed revised sheets.

SECTION 4

Sheet 1:

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.
- Removed permanent easement located in south west intersection of 32nd Avenue and Sheyenne Street Sta. 575+84 Lt.
- Adjusted temporary easement west roadside Sta. 559+81 Lt.

SECTION 6

Sheet 1:

- Revised Coordination of Projects Note 100-P02.
- Added Limited Access Note 100-P04.

Sheet 2:

- Revisions to notes affected page layout.

Sheet 4:

- Revised Traffic Control Phasing Note 704-P02.

Sheet 5:

- Added Traffic Control Note 704-P11.

Sheet 6:

- Revised Existing Sanitary Sewer Force Main Note 724-P03.

Sheet 7:

- Revisions to notes affected page layout.

Sheet 8:

- Added Sidewalk – Decorative Note 750-P06.

Sheet 8A:

- Additional page added due to revisions.

Sheet 13:

- Added Portable Traffic Signals Note 772-P20.

SECTION 8

Sheet 1:

- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
251	0300	SEEDING CLASS III	ACRE	16.19	16.04
253	0201	HYDRAULIC MULCH	ACRE	34.19	34.14
302	0121	AGGREGATE BASE COURSE CL 5	CY	19,812	19,847
302	0050	TRAFFIC SERVICE AGGREGATE	TON	1,066	1,521
624	0123	PEDESTRIAN RAILING	EA	141	71
704	1000	TRAFFIC CONTROL SIGNS	UNITS	5,889	5,776

Sheet 2:

- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	11,327	11,464
970	0002	LANDSCAPE EDGING	LF	1,153	1,053
970	2203	GLADIATOR CRABAPPLE	EA	17	12
970	5050	CRIMSON PYGMY BARBERRY	EA	24	12
970	5196	DAKOTA SUNSPOT POTENTILLA	EA	36	10
970	6016	DAYLILIES-CONTAINER	EA	220	175
970	6326	RUSSIAN SAGE	EA	57	33
970	7000	LITTLE BLUE STEM	EA	268	231
970	7050	KARL FORESTER	EA	256	168
970	7056	MISCANTHUS SINENSIS PURPURASCENS	EA	53	25

- Quantities Added:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
750	0107	SIDEWALK-DECORATIVE	SY	0	158

SECTION 40

Sheet 9:

- Adjusted temporary easement west roadside Sta. 559+81 Lt.

Sheet 12:

- Removed permanent easement located in south west intersection of 32nd Avenue and Sheyenne Street Sta. 575+84 Lt.

SECTION 55

Sheet 9:

- Adjusted temporary easement west roadside Sta. 559+81 Lt.

Sheet 12:

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.
- Removed permanent easement located in south west intersection of 32nd Avenue and Sheyenne Street Sta. 575+84 Lt.

SECTION 60

Sheet 9:

- Adjusted temporary easement west roadside Sta. 559+81 Lt.

Sheet 12:

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.
- Removed permanent easement located in south west intersection of 32nd Avenue and Sheyenne Street Sta. 575+84 Lt.

SECTION 75

Sheet 11:

- Adjusted temporary easement west roadside Sta. 559+81 Lt.

Sheet 14:

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.
- Removed permanent easement located in south west intersection of 32nd Avenue and Sheyenne Street Sta. 575+84 Lt.

SECTION 76

Sheet 9

- Adjusted temporary easement west roadside Sta. 559+81 Lt.

Sheet 12

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.
- Removed permanent easement located in south west intersection of 32nd Avenue and Sheyenne Street Sta. 575+84 Lt.
- Removed Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
253	0201	HYDRAULIC MULCH (575+50 to 576+10 Lt)	ACRE	0.10	0.00

SECTION 77

Sheet 9

- Adjusted temporary easement west roadside Sta. 559+81 Lt.

Sheet 12

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.
- Removed permanent easement located in south west intersection of 32nd Avenue and Sheyenne Street Sta. 575+84 Lt.

- Removed Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
251	0300	SEEDING CLASS III (575+50 to 576+10 Lt)	ACRE	0.05	0.00
253	0201	HYDRAULIC MULCH (575+50 to 576+10 Lt)	ACRE	0.05	0.00

SECTION 81

Sheet 2:

- Removed proposed pedestrian railing chain (PRFENCE_SW) south west corner intersection of 32nd Avenue and Sheyenne Street.

Sheet 13:

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.

SECTION 82

Sheet 14:

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.

Sheet 21:

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.

SECTION 85

Sheet 1:

- Removed Sheet 1/8 from the index
- Revised Overall Plant Schedule to account for the removal of the landscaping at the southwest corner of 32nd Ave and Sheyenne Street
- Revised shrub and perennial quantities.

Sheet 8:

- Sheet removed per Addendum 2

SECTION 90

Sheet 3:

- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
302	0121	AGGREGATE BASE COURSE CL 5 (Sidewalk)	CY	143	152
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	1244	1326

Sheet 4:

- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
302	0121	AGGREGATE BASE COURSE CL 5 (Sidewalk)	CY	144	147
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	1300	1319

Sheet 5:

- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
302	0121	AGGREGATE BASE COURSE CL 5 (Sidewalk)	CY	148	158
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	1180	1244

Sheet 7:

- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
302	0121	AGGREGATE BASE COURSE CL 5 (Sidewalk)	CY	147	150
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	1273	1295

Sheet 9:

- Adjusted temporary easement west roadside Sta. 559+81 Lt.

Sheet 10:

- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
302	0121	AGGREGATE BASE COURSE CL 5 (Sidewalk)	CY	140	146
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	1214	1271

Sheet 11:

- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
302	0121	AGGREGATE BASE COURSE CL 5 (Sidewalk)	CY	106	111
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	952	1003

Sheet 12:

- Removed permanent easement located in south west intersection of 32nd Avenue and Sheyenne Street Sta. 575+84 Lt.
- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	185	27

- Added Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
750	0107	SIDEWALK-DECORATIVE	SY	0	158

SECTION 100

Sheet 1:

- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
302	0550	TRAFFIC SERVICE AGGREGATE	TON	66	521
704	1000	TRAFFIC CONTROL SIGNS	UNIT	5,798	5,713

Sheet 2:

- Removed Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
302	0550	TRAFFIC SERVICE AGGREGATE	TON	455	0

Sheet 3:

- Revised temporary traffic control condition due to adjacent construction project.
- Revised detour signing name and sizing.

Sheet 4:

- Revised detour signing name and sizing.

Sheet 5:

- Revised detour signing name and sizing.

Sheet 6:

- Revised detour signing name and sizing.

Sheet 7:

- Revised detour signing name and sizing.
- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.

Sheet 8:

- Revised detour signing name and sizing.
- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.

Sheet 9:

- Adjusted position of Temporary Traffic Signal. Add callout to place pedestrian push button located inside barricades.

Sheet 10:

- Revised detour signing name and sizing.

Sheet 15:

- Revised detour signing name and sizing.

Sheet 16:

- Revised detour signing name and sizing.

Sheet 17:

- Revised detour signing name and sizing.

SECTION 110

Sheet 14:

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.

SECTION 120

Sheet 9

- Adjusted temporary easement west roadside Sta. 559+81 Lt.

Sheet 12

- Removed proposed pedestrian railing south west corner intersection of 32nd Avenue and Sheyenne Street.
- Removed permanent easement located in south west intersection of 32nd Avenue and Sheyenne Street Sta. 575+84 Lt.

SECTION 150

Sheet 23:

- Graphical changes showing location of portable signals, addition of barricades around Southeast portable signal.

Sheet 24:

- Graphical changes showing location of portable signals, addition of barricades around Southeast portable signal.

SECTION 170

Sheet 1:

- Removed decorative railing at the southwest corner of 32nd Ave and Sheyenne Street

- Revised Quantities:

Spec	Code	Description	Unit	Previous Quantity	Addendum 2 Quantity
624	0123	PEDESTRIAN RAILING	LF	140	71

Sheet 4:

- Revised quantities due to the removal of the decorative railing at the southwest corner of 32nd Ave and Sheyenne Street.

Supplemental Design Data Revisions SU-8-992(040)041:

The following design files were modified to reflect the plan changes described above.

Design files needed:

- Consign1_AD-A.dgn
- Consign2_AD-A.dgn
- Design_AD-A.dgn
- P_Erosion_C_AD-A.dgn
- Pointer_004_AD-A.dgn
- Pointer_040_AD-A.dgn
- Pointer_055_AD-A.dgn
- Pointer_060_AD-A.dgn
- Pointer_075_AD-A.dgn
- Pointer_076_AD-A.dgn
- Pointer_077_AD-A.dgn
- Pointer_090_AD-A.dgn
- Pointer_100_AD-A.dgn
- Pointer_110_AD-A.dgn
- Pointer_120_AD-A.dgn
- RW_Bndry_Proposed_AD-A.dgn
- T_Erosion_C_AD-A.dgn

Sincerely,
Moore Engineering



Kevin J. Knott, PE
Project Engineer

Enclosure(s): Revised Plan Sheets
Project #: SU-8-992(040)041, PCN 21569

END OF ADDENDUM NO. 2

BID ITEMS

Project: SU-8-992(040)041 (PCN-21569)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	201	0330	CLEARING & GRUBBING	L SUM	1.				
003	201	0370	REMOVAL OF TREES 10IN	EA	11.				
004	201	0380	REMOVAL OF TREES 18IN	EA	1.				
005	202	0104	REMOVAL OF STRUCTURE	EA	3.				
006	202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	2,635.				
007	202	0130	REMOVAL OF CURB & GUTTER	LF	2,580.				
008	202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	1,657.				
009	202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	1,946.				
010	202	0210	REMOVAL OF MANHOLES	EA	5.				
011	202	0230	REMOVAL OF INLETS	EA	6.				
012	202	0286	REMOVAL OF FOUNDATIONS-ALL SIZES	L SUM	1.				
013	202	0312	REMOVE EXISTING FENCE	LF	596.				
014	203	0101	COMMON EXCAVATION-TYPE A	CY	46,181.				
015	203	0109	TOPSOIL	CY	13,933.100				
016	203	0125	REMOVE & SALVAGE TOPSOIL	CY	1,680.				

BID ITEMS

Project: SU-8-992(040)041 (PCN-21569)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
017	203	0138	COMMON EXCAVATION-SUBCUT	CY	1,500.				
018	216	0100	WATER	M GAL	4,500.				
019	230	0300	SUBGRADE PREPARATION-TYPE A	STA	78.				
020	251	0300	SEEDING CLASS III	ACRE	16.040				
021	253	0201	HYDRAULIC MULCH	ACRE	34.140				
022	253	0301	BONDED FIBER MATRIX	ACRE	9.950				
023	260	0200	SILT FENCE SUPPORTED	LF	2,085.				
024	260	0201	REMOVE SILT FENCE SUPPORTED	LF	1,035.				
025	261	0112	FIBER ROLLS 12IN	LF	4,000.				
026	261	0113	REMOVE FIBER ROLLS 12IN	LF	4,000.				
027	302	0050	TRAFFIC SERVICE AGGREGATE	TON	1,521.				
028	302	0121	AGGREGATE BASE COURSE CL 5	CY	19,847.				
029	302	9970	TYPE II PIPE BEDDING	CY	965.				
030	306	0510	FULL DEPTH RECLAMATION	SY	37,703.				
031	430	0043	SUPERPAVE FAA 43	TON	2,338.				
032	430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	1,503.				

BID ITEMS

Project: SU-8-992(040)041 (PCN-21569)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
033	430	1000	CORED SAMPLE	EA	16.				
034	430	5806	PG 58H-28 ASPHALT CEMENT	TON	140.				
035	550	0310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED	SY	38,552.				
036	622	6760	STEEL SHEET PILING	SF	6,125.				
037	624	0123	PEDESTRIAN RAILING	LF	71.				
038	702	0100	MOBILIZATION	L SUM	1.				
039	704	0100	FLAGGING	MHR	1,600.				
040	704	1000	TRAFFIC CONTROL SIGNS	UNIT	5,776.				
041	704	1052	TYPE III BARRICADE	EA	55.				
042	704	1054	SIDEWALK BARRICADE	EA	23.				
043	704	1060	DELINEATOR DRUMS	EA	247.				
044	704	1067	TUBULAR MARKERS	EA	100.				
045	704	1080	STACKABLE VERTICAL PANELS	EA	55.				
046	704	3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF	160.				
047	704	4011	PORTABLE CHANGEABLE MESSAGE SIGN	EA	6.				
048	708	1531	INLET PROTECTION-FIBER ROLL 12IN	EA	66.				

BID ITEMS

Project: SU-8-992(040)041 (PCN-21569)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
049	708	1533	REMOVAL INLET PROTECTION-FIBER ROLL 12IN	EA	66.				
050	708	1540	INLET PROTECTION-SPECIAL	EA	48.				
051	708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	48.				
052	709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	65,768.				
053	714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN	LF	2,472.				
054	714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN	LF	1,346.				
055	714	0620	PIPE CONC REINF 24IN CL III-STORM DRAIN	LF	543.				
056	714	0825	PIPE CONC REINF 30IN CL III-STORM DRAIN	LF	971.				
057	714	0910	PIPE CONC REINF 36IN CL III-STORM DRAIN	LF	1,252.				
058	714	1010	PIPE CONC REINF 42IN CL III-STORM DRAIN	LF	1,136.				
059	714	1110	PIPE CONC REINF 48IN CL III-STORM DRAIN	LF	1,541.				
060	714	1212	PIPE CONC REINF 54IN CL III-STORM DRAIN	LF	116.				
061	714	9680	PLUG PIPE-ALL TYPES & SIZES	EA	3.				
062	714	9696	EDGEDRAIN NON PERMEABLE BASE	LF	12,304.				
063	714	9730	UNDERDRAIN PIPE PVC PERFORATED 6IN	LF	1,030.				
064	722	0100	MANHOLE 48IN	EA	5.				

BID ITEMS

Project: SU-8-992(040)041 (PCN-21569)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
065	722	0110	MANHOLE 60IN	EA	6.				
066	722	0120	MANHOLE 72IN	EA	9.				
067	722	0130	MANHOLE 84IN	EA	6.				
068	722	0200	MANHOLE 108IN	EA	1.				
069	722	0315	MANHOLE CASTING	EA	3.				
070	722	0428	8FT X 6FT RCB CULVERT MANHOLE	EA	3.				
071	722	1100	MANHOLE RISER 48IN	LF	38.				
072	722	1110	MANHOLE RISER 60IN	LF	41.400				
073	722	1120	MANHOLE RISER 72IN	LF	64.600				
074	722	1130	MANHOLE RISER 84IN	LF	82.800				
075	722	1200	MANHOLE RISER 108IN	LF	17.600				
076	722	3410	MANHOLE REPAIR	EA	4.				
077	722	3510	INLET-TYPE 2	EA	12.				
078	722	3520	INLET-TYPE 2 DOUBLE	EA	14.				
079	722	3701	INLET SPECIAL-TYPE 2 48IN	EA	7.				
080	722	3740	INLET SPECIAL CATCH BASIN-TYPE A 48IN	EA	4.				

BID ITEMS

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Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
081	722	3769	INLET SPECIAL-TYPE 2 96IN	EA	1.				
082	722	4000	INLET CATCH BASIN-TYPE A	EA	27.				
083	722	6140	ADJUST GATE VALVE BOX	EA	2.				
084	722	6160	ADJUST INLET	EA	2.				
085	722	6200	ADJUST MANHOLE	EA	1.				
086	722	6248	ADJUST 3IN WATERMAIN	EA	3.				
087	724	0210	FITTINGS-DUCTILE IRON	LBS	4,227.				
088	724	0300	GATE VALVE & BOX 6IN	EA	1.				
089	724	0310	GATE VALVE & BOX 8IN	EA	1.				
090	724	0317	GATE VALVE & BOX 16IN	EA	4.				
091	724	0375	RELOCATE GATE VALVE & BOX	EA	17.				
092	724	0400	HYDRANT-INSTALL 6IN	EA	3.				
093	724	0427	ADJUST HYDRANT	EA	2.				
094	724	0552	TAPPING SLEEVE & VALVE 16IN X 8IN	EA	3.				
095	724	0571	TAPPING SLEEVE & VALVE 20IN X 4IN	EA	1.				
096	724	0611	WATER SERVICE LINE 1IN	LF	157.				

BID ITEMS

Project: SU-8-992(040)041 (PCN-21569)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
097	724	0621	WATER SERVICE LINE 2IN	LF	76.				
098	724	0810	WATERMAIN 6IN PVC	LF	17.				
099	724	0830	WATERMAIN 8IN PVC	LF	412.				
100	724	0852	WATERMAIN 16IN PVC	LF	715.				
101	724	0860	20IN FORCEMAIN	LF	714.				
102	724	0892	RELOCATE WATERMAIN	EA	11.				
103	724	0955	WATER SERVICE CONNECTION 1IN	EA	2.				
104	724	0960	WATER SERVICE CONNECTION 2IN	EA	1.				
105	724	1035	SPRINKLER RELOCATION	L SUM	1.				
106	724	9018	FORCEMAIN 4IN	LF	112.				
107	724	9022	FORCEMAIN 8IN	LF	483.				
108	724	9024	FORCEMAIN 10IN	LF	46.				
109	724	9028	FORCEMAIN 16IN	LF	147.				
110	744	0050	INSULATION BOARD	CF	42.				
111	748	0190	CURB & GUTTER-TYPE I 30IN	LF	23,465.				
112	750	0030	PIGMENTED IMPRINTED CONCRETE	SY	3,278.				

BID ITEMS

Project: SU-8-992(040)041 (PCN-21569)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
113	750	0101	SIDEWALK CONCRETE REINF	SY	224.				
114	750	0107	SIDEWALK - DECORATIVE	SY	158.				
115	750	0120	SIDEWALK CONCRETE 5IN REINF	SY	11,464.				
116	750	0210	CONCRETE MEDIAN NOSE PAVING	SY	229.				
117	750	1016	DRIVEWAY CONCRETE 6IN REINFORCED	SY	545.				
118	750	2115	DETECTABLE WARNING PANELS	SF	680.				
119	752	0850	ORNAMENTAL FENCE	LF	456.				
120	752	0911	TEMPORARY SAFETY FENCE	LF	1,635.				
121	754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	473.				
122	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	98.				
123	754	0170	FLEXIBLE DELINEATORS	EA	29.				
124	754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	537.				
125	754	0592	RESET SIGN PANEL	EA	2.				
126	762	0122	PREFORMED PATTERNED PVMT MK-MESSAGE(GROOVED)	SF	895.				
127	762	0420	SHORT TERM 4IN LINE-TYPE R	LF	825.				
128	762	0426	SHORT TERM 24IN LINE-TYPE R	LF	108.				

BID ITEMS

Project: SU-8-992(040)041 (PCN-21569)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
129	762	0436	SHORT TERM 24IN LINE-TYPE NR	LF	70.				
130	762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	LF	4,588.				
131	762	1309	PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED	LF	5,232.				
132	762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED	LF	2,050.				
133	762	1344	PREF PATT PVMT MK 7IN LINE CONTRAST-GROOVED	LF	2,399.				
134	766	0100	MAILBOX-ALL TYPES	EA	4.				
135	770	0003	LIGHTING SYSTEM A	EA	1.				
136	772	2800	INTERIM TRAFFIC SIGNALS	EA	2.				
137	772	2810	TEMPORARY TRAFFIC SIGNALS	EA	2.				
138	772	9200	IT SYSTEM	EA	1.				
139	772	9811	TRAFFIC SIGNAL SYSTEM - SITE 1	EA	1.				
140	772	9812	TRAFFIC SIGNAL SYSTEM - SITE 2	EA	1.				
141	772	9813	TRAFFIC SIGNAL SYSTEM - SITE 3	EA	1.				
142	970	0001	LANDSCAPING APPURTENANCES	L SUM	1.				
143	970	0002	LANDSCAPE EDGING	LF	1,053.				
144	970	0009	LANDSCAPE PREPARATION	ACRE	151.800				

BID ITEMS

Project: SU-8-992(040)041 (PCN-21569)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
145	970	0105	HERBICIDE WEED CONTROL	SF	141,500.				
146	970	2014	EMBERS AMUR MAPLE - TREE FORM	EA	9.				
147	970	2050	COMMON HACKBERRY	EA	22.				
148	970	2140	KENTUCKY COFFEETREE	EA	21.				
149	970	2150	NORTHERN ACCLAIM HONEYLOCUST	EA	23.				
150	970	2191	PINK SPIRES CRABAPPLE	EA	18.				
151	970	2192	PRAIRIE FIRE CRABAPPLE	EA	8.				
152	970	2203	GLADIATOR CRABAPPLE	EA	12.				
153	970	2215	PRINCESS KAY PLUM	EA	6.				
154	970	2300	PRAIRIE GEM PEAR	EA	33.				
155	970	2392	IVORY SILK LILAC	EA	36.				
156	970	2436	HARVEST GOLD LINDEN	EA	13.				
157	970	2470	DISCOVERY ELM	EA	22.				
158	970	5050	CRIMSON PYGMY BARBERRY	EA	12.				
159	970	5120	MEADOWLARK FORSYTHIA	EA	26.				
160	970	5167	DIABOLO NINEBARK	EA	26.				

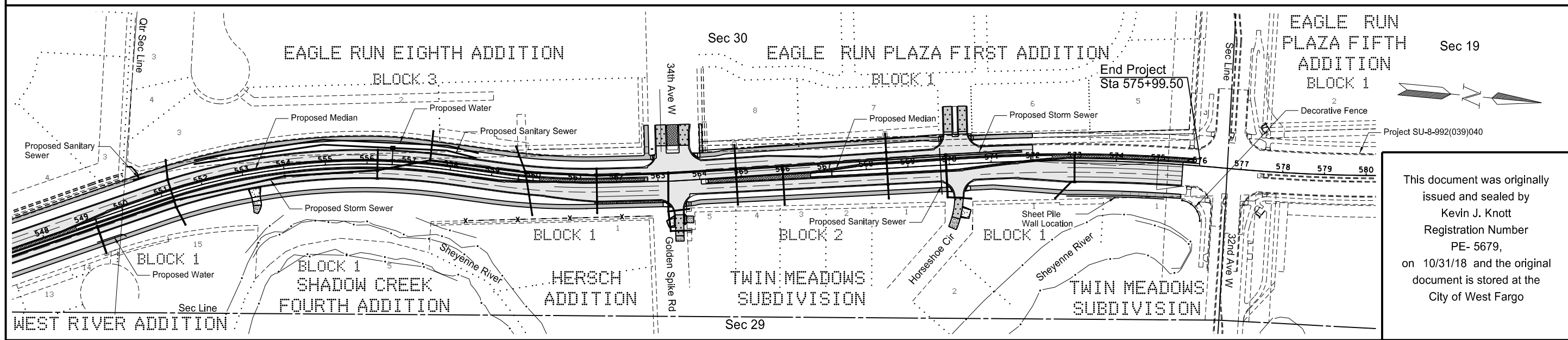
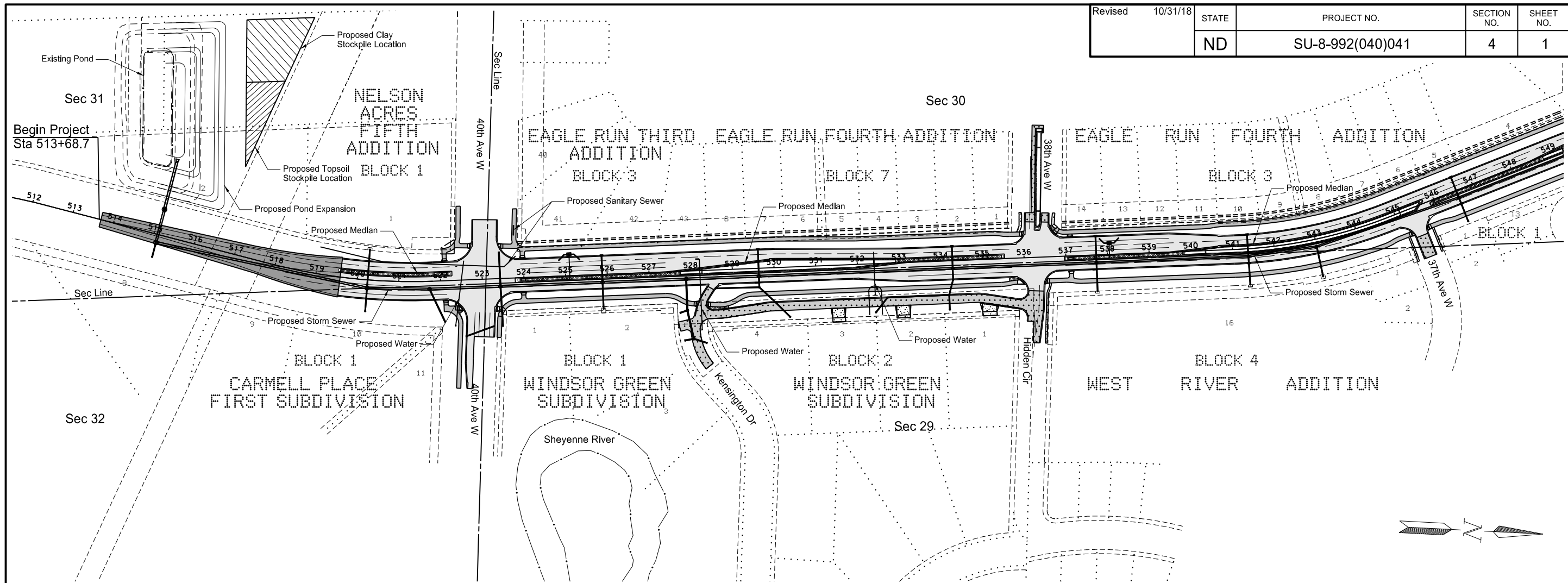
BID ITEMS

Project: SU-8-992(040)041 (PCN-21569)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
161	970	5196	DAKOTA SUNSPOT POTENTILLA	EA	10.				
162	970	6016	DAYLILIES-CONTAINER	EA	175.				
163	970	6326	RUSSIAN SAGE	EA	33.				
164	970	7000	LITTLE BLUE STEM	EA	231.				
165	970	7050	KARL FOERSTER	EA	168.				
166	970	7056	MISCANTHUS SINENSIS PURPURASCENS	EA	25.				
			TOTAL SUM BID						

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LEGEND			
	10IN PCC PAVEMENT		CONCRETE DRIVEWAY 6IN
	SUPERPAVE FAA 43		SIDEWALK CONCRETE REINF (4IN)
	COMMERCIAL GRADE HOT MIX ASPHALT		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
	PIGMENTED IMPRINTED CONCRETE		
	AGGREGATE SURFACE COURSE CL 13		

Sheyenne Street
Scope of Work

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100-P01 COMPLETION DATES:

Interim Completion Date No. 1: All Work from the south project limit at Station 513+65 to north of 40th Avenue at Station 523+36, except the 40th Avenue and Sheyenne Street NW and NE curb ramps and sidewalk.

Connect the 2 inch water service connection near Station 549+20 to allow abandoning of the Cass Rural Water line north of Station 522+05.

Interim Completion Date No. 1 is June 15, 2019. Liquidated damages will be assessed at a rate of \$4,000.00 for each calendar day that expires after June 15, 2019.

Interim Completion Date No. 2: All remaining Work is complete, except minor punch list items. All remaining Work includes installation of all water, sanitary sewer and storm sewer utilities, all work associated with the installation of the concrete pavement, curb and gutter, sidewalk, driveways and asphalt pavement, installation of pavement markings, traffic control signs, traffic signals and street lights, placement of topsoil, seeding, mulching, fertilizer and weed control.

Interim Completion Date No. 2 is October 5, 2019. Liquidated damages will be assessed per Specification 108.07.B for each calendar day that expires after October 5, 2019.

Interim Completion Date No. 3: All Work is complete, except for achieving Final Stabilization per ND Department of Health Construction General Permit NDR10-000 and removing all temporary erosion protection and sediment control devices. The Work remaining after Interim Completion Date No. 3 will be watering and mowing of vegetative cover until reaching Final Stabilization.

Interim Completion Date No. 3 is November 3, 2019. Liquidated damages will be assessed at a rate of \$850.00 for each calendar day that expires after November 3, 2019 until all Work for Interim Completion Date No. 3 is complete.

Final Completion: The project will be complete, including achieving Final Stabilization and the removal of all temporary erosion protection and sediment control devices.

Final Completion is June 15, 2020. Liquidated damages will be assessed at a rate of \$350.00 for each calendar day that expires after June 15, 2020.

Liquidated Damages: Liquidated damages for failing to timely attain any completion dates are not additive and will not be imposed concurrently.

100-P02 COORDINATION OF PROJECTS: Multiple projects will be occurring in the vicinity during the 2019 construction season. Coordinate scheduling, work activities and construction traffic control devices between projects. The following list summarizes the projects that may occur and are subject to change:

1. NDDOT Project IM-8-094(092)346, PCN 21570 – Interstate 94 and Sheyenne Street
2. NDDOT Project SU-8-992(039)040, PCN 21568 – Sheyenne Street - 32nd Ave to Beaton Drive (Abuts the end project location of SU-8-992(040)041 project)
3. NDDOT Project SU-8-984(164), PCN 22007 and City of Fargo project BN-19-A1 – 52nd Ave – 45th St to Sheyenne Street
4. West Fargo Improvement District Project 2244 – Sheyenne Street – Beaton Drive to 13th Ave
5. Street Improvement District No 2250 – Kensington Drive/Hidden Circle Connection

100-P03 WORKING HOURS: Monday through Saturday from 7:00 AM to 7:00 PM, unless otherwise noted. Sunday and holidays by permission only. Submit request to Engineer for approval a minimum of 48 hours in advance.

Working hour restrictions do not apply to relief sawing. Coordinate green sawing operations with City and provide notification to property owners.

100-P04 LIMITED ACCESS: The table below represents locations in which no work will take place outside of the existing right-of-way until the specified date. Take care to ensure that no work items commence outside of the existing right-of-way unless otherwise notified by the Engineer. The Engineer will stake these locations upon request.

Parcel Location	Station Range	Offset	Date of Entry
Lot 4, Block 3, Eagle Run 4 th Addition	546+81.22 to 549+80.34	LT	4-1-19
Lot 5, Block 7, Eagle Run 4 th Addition	531+18.50 to 532+10.54	LT	4-1-19
Lot 41, Block 3, Eagle Run 3 rd Addition	527+21.74 to 528+42.45	LT	4-1-19
Lot 42, Block 3, Eagle Run 3 rd Addition	525+37.00 to 527+21.74	LT	4-1-19
Lot 43, Block 3, Eagle Run 3 rd Addition	523+87.08 to 525+37.00	LT	4-1-19

105-200 UTILITY COORDINATION: A utility coordination meeting is required prior to the start of construction.

105-P01 UTILITIES: The vertical and horizontal utility locations shown in the plans are approximate. Plan locations should not be interpreted as exact for bidding or construction purposes.

105-P02 UTILITY COORDINATION: Coordinate work activities with utility companies to allow sufficient time to address utility conflicts. Prioritize utility coordination to accommodate project phasing. See Utility Conflict Summary Sheets provided as a Supplemental Design Data for the project.

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105-P03 UTILITIES: Utility facilities are identified in the tables in Section 11. Adjust operations adjacent to these utility facilities to protect them as described in the Section 11 tables (See Comments column). Repair the damaged utilities, identified to remain in place, at the Contractor's expense. In addition to the Section 11 tables, utilities in conflict with the proposed work are identified in the Utility Conflict Summary Sheets. (Utility Conflict Summary Sheets do include utilities listed in the Section 11 tables that are identified to remain in place, as well.)

105-P04 PAVEMENT SWEEPING: Sweep the roadway adjacent to the construction area at the end of each day. Sweep paved areas that were used by construction traffic before opening these areas to public traffic. Sweep all newly constructed pavement no more than 24 hours before a scheduled final inspection. Use a vacuum type sweeper to perform this work.

105-P02 WINDSOR GREEN WATER SYSTEM: The Windsor Green subdivision owns and operates a private water system which includes 2 wells and distribution lines. The location of the distribution lines are unknown. Work within Kensington Drive and the Frontage Road may encounter portions of this system. Prior to working within the Windsor Green subdivision, contact Moore Engineering Inc. for system ownership information. If the water system is in conflict with the proposed underground utilities, include all costs to relocate the existing water system in the price bid for "Adjust 3IN Watermain". A quantity of 3 has been added for bidding purposes.

107-P01 MAINTAINING TRAFFIC –DROP-OFFS: If, at the end of the work-day, drop-offs greater than 2 inches and less than 18 inches or slopes steeper than 4:1 exist between the edge of a traffic lane and the outside edge of the proposed roadway, perform one of the following actions:

- Construct a traversable wedge in the area of the drop-off or steep slope; or
- Close the lane adjacent to the drop-off or steep slope and provide 24-hour flagging.

When constructing a wedge, construct a wedge composed of aggregate or earthen materials with a 4:1 or flatter slope along the entire length of the area. Compact materials using Type C compaction, as specified in 203.04 E.4, "Compaction Control Type C".

Install stackable vertical panels that meet the requirements of Section 704.03 H, "Stackable Vertical Panels", along the edge of the driving lane closest to the wedge.

The Engineer will measure stackable vertical panels as specified in Section 704.05, "Method of Measurement" and will pay for panels as specified in Section 704.06, "Basis of Payment".

The Engineer will not measure material used to construct the wedge. Include the cost of materials, equipment, labor, and incidentals required for this operation in the price bid for aggregate pay items.

If a 4:1 or flatter wedge is not installed, provide 24 hour flagging or pilot car operations and associated traffic control at no additional cost to the Department.

The requirements of Section 704.04 O, "Traffic Control for Uneven Pavement" apply to drop-offs created by milling or the placement of hot mix asphalt.

108-P01 WEEKLY PLANNING & REPORTING MEETING: A weekly planning and reporting meeting is required. Provide a suitable meeting facility. Have the room approved by the Engineer.

201-P01 REMOVAL OF TREES: Do not remove trees unless marked by the Engineer. Provide 48 hour advance notice to Engineer for tree marking.

201-P02 CLEARING & GRUBBING: Remove existing shrubs, bushes, wood mulch, landscaping rock, landscaping boulders, edging, landscaping fabric, concrete edging, and trim trees/shrubs located within the limits of construction. Coordinate with Engineer prior to removal or tree/shrub trimming. Include all costs for removals and tree trimming in the price bid for "Clearing & Grubbing". The following locations have been identified for clearing and grubbing:

1. All trees less than 8" in diameter
2. Windsor Green subdivision sign, posts, footings, and landscaping at southeast corner of Sheyenne Street & Kensington Drive
3. Landscaping in the ditch along the east side of frontage road (Hidden Circle to Kensington Drive)
4. Landscaping around subdivision entrance on the west side of Sheyenne Street and 38th Avenue W
5. Hidden Acres subdivision sign, posts, and footings at 36th Avenue E
6. Wood retaining wall along driveway on north side of Golden Spike Road (3314 Meadow Way)
7. Trim trees and shrubs where indicated on the plans. Trim trees and shrubs (on right of way side only) to provide a vertical clearance of 12' as measured from top of sidewalk.

202-P01 SALVAGE EXISTING FACILITIES: Salvage existing manhole castings and inlet castings. Deliver to City of West Fargo Public Works Building at 810 12th Street NW. Coordinate delivery with City of West Fargo Assistant Public Works Director Ryan James at 701-433-5400, a minimum of 24 hours in advance.

202-P02 REMOVAL OF STRUCTURE: Existing cleanout structures designated for removal consist of an 84" diameter manhole barrel with flat cover and aluminum hatch. Existing structures vary in depth from 12' to 15'. Internal piping consists of two (2) 20"x10" PVC wyes with 10" plug valves extended towards the surface. The bottom the cleanout manhole is filled with concrete encasing the pipes. Remove entire structure and aggregate base. Include all costs to excavate, remove existing cleanout structure, dispose offsite, and backfill in the price bid for "Removal of Structure".

202-P03 REMOVAL OF FOUNDATIONS-ALL SIZES: The above ground structure of the existing entrance shed for the Eagle Run Subdivision is to be removed by others. Remove existing entrance building footings, building slab, flag poles (3) and foundations, and fencing located at Sta. 536+30, 85' Lt. Remove fencing between concrete walls and building. When removing fence, protect existing stucco walls and repair all damage to stucco wall to the satisfaction of the Engineer. Include all costs to remove foundations, flag poles, concrete slab, fencing, dispose offsite, and backfill in the price bid for "Removal of Foundations-All Sizes".

202-P04 REMOVAL OF AGGREGATE SURFACING AND BASE: Removal of aggregate surfacing at approaches and aggregate base for streets, sidewalks, and driveways to be included in the price bid for "Common Excavation – Type A".

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302-P02 TYPE II PIPE BEDDING: Use Type 2 Pipe Bedding as directed by the Engineer to replace soft, spongy, or other unsuitable material encountered in the trench bottom when installing sanitary sewer, storm drain, or water main. Type 2 bedding material consists of 1” to 2” washed rock. Provide dewatering as necessary according to site conditions. Include all costs associated with dewatering, excavation, and disposal of unsuitable material in the price bid for “Type II Pipe Bedding”. A quantity has been provided in the plans that represents 25% of the overall storm drain pipe length.

302-P03 AGGREGATE BASE COURSE CL 5: Meet the gradation as shown in specification Section 816 for Aggregate Base Course CL 5, revising Percent Passing for No. 200 sieve as follows:

Sieve Size	Percent Passing
No. 200	6-10

302-P04 AGGREGATE BASE: Proof roll all aggregate bases prior to paving along all travel lanes to verify the uniformity of the underlying base throughout the roadway section and to check for the presence of localized soft or weak zones. Perform proof roll under the observation of the Engineer with a fully loaded, tandem axle dump truck with a weight of approximately 25 tons or an approved equal. Proof roll at a vehicle speed of between 1 1/2 and 3 miles per hour along the aggregate base such that unrolled areas between wheel paths are not wider than 1 foot. Limit yielding less than 1/2-inches for aggregate bases, provided the aggregate base does not display permanent deformation. Correct areas that display excessive yielding, pumping or rutting during the proof roll. Repeat proof roll procedures until accepted by the engineer.

Include all costs associated with proof rolling the aggregate base in the price bid for “Aggregate Base Course CL5”.

306-P05 FULL DEPTH RECLAMATION: Reclaim existing asphalt pavements full depth in locations shown to be removed in Section 40 plan sheets.

Existing aggregate base material under the asphalt pavement can be blended into the reclaimed material. Reclaimed material to become the property of the Owner and delivered to City of West Fargo Public Works Building at 810 12th Street NW. Coordinate delivery with City of West Fargo Assistant Public Works Director Ryan James at 701-433-5400 a minimum of 24 hours in advance. Include all costs for labor and equipment necessary to complete full depth reclamation operations, include hauling and delivery of the reclaimed material, in the price bid for “Full Depth Reclamation”.

550-P01 SLIP FORM PAVING: All main line concrete pavement is to be placed with a slip form paver as specified in specification Section 155.

550-P02 CONCRETE PAVEMENT: Waive the minimum 28 day coring requirement per Standard 550.04 N.1. Cores may be taken after concrete design strength has been reached as approved by the Engineer.

704-P01 TRAFFIC CONTROL: Maintain access at all times. Utilize Standard Drawing list and Section 100 plan sheets for all Traffic Control. Any alterations require the Engineer’s approval a minimum of 2 weeks prior to implementing.

704-P02 TRAFFIC CONTROL PHASING: See Section 100 plan sheets, “Work Zone Traffic Control” for overview and detailed layouts of the construction phasing plan. Any alterations require the Engineer’s approval a minimum of 2 weeks prior to implementing.

Phase 1

- Close Sheyenne Street to all through traffic from Station 576+25 south of 32nd Avenue to South River Estates Way. Maintain access points for residents’ properties as detailed in Section 100 plan sheets.
- Maintain access on Sheyenne Street from 38th Ave W to 37th Ave E and Kensington Drive until Street Improvement District No. 2250 Kensington Drive/Hidden Circle connection is open to traffic.
- Complete all work indicated in Interim Completion Date No. 1 prior to changing to Phase 2 traffic control.
- Construct all available improvements along Sheyenne Street from 40th Avenue to 32nd Avenue while still maintaining access as shown in Section 100 Phase 1 Traffic Control Detour. This work can continue into Phase 2 traffic control.

Phase 2

- Open Sheyenne Street to all through traffic south of Station 523+90. Open 40th Avenue intersection to south bound, west bound, and east bound traffic. Sheyenne Street between 40th Avenue and 32nd Avenue to remain closed to through traffic.
- Construct all remaining Work. Maintain access points for residents’ properties as detailed in Section 100 plan sheets.

704-P03 TRAFFIC CONTROL DEVICES: The traffic control devices list for each phase has been developed using traffic control sign layouts (shown in Section 100) and Standard Drawings as listed below:

- D-704-04 Work Zone Business Sign Detail
- D-704-07, 8, 9, 10: Are applicable.
- D-704-13, 14: Are applicable.
- D-704-21 Type I for detour sign layout
- D-704-26: Type EE and GG for maintaining temporary access.
- D-704-51: Portable precast concrete median barriers.

Maintain a minimum 11 foot wide lane at all times.

704-P04 PORTABLE CHANGEABLE MESSAGE SIGN: Install up to six (6) Portable Changeable Message Signs (PCMS) around the project perimeter 2 weeks prior to commencing each Phase of work. The Engineer will determine the locations for PCMS installation. Relocate the PCMS as directed by the Engineer.

Provide an operator trained in the use of the PCMS.

The Engineer will determine the message to be displayed. Program the message within one hour of the Engineer's request to change the message.

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- 704-P05 TRAVERSABLE DRIVING SURFACE: To facilitate traffic during different phases of construction a traversable driving surface is required where indicated. A traversable surface may be defined as the existing roadway surface, completed concrete roadway surface, completed asphalt wear course surface, completed asphalt base course surface, or an aggregate surface a minimum of 6 inches in depth.
- 704-P06 FRONTAGE ROAD ACCESS: Construct the Winsor Green frontage road in two phases, from Sta. 5+15 to 9+20 and Sta. 9+20 to 13+00. Maintain residents' access to homes with a traversable driving surface.
- 704-P07 MAINTAINING ACCESS: Maintain a traversable driving surface for two way traffic at all times for residents and Triumph Lutheran Church properties along the East side of Sheyenne Street. Maintain access to Twin Meadows and Hersch Addition from either Horeseshoe Circle or Golden Spike Road. Do not route traffic through the frontage road of the Eagle Run Plaza First Addition at any time. Maintain access to West River Addition, West River Second Addition, Borderud, and Windsor Green from either 37th Avenue East, Hidden Circle, or Kensington Drive. An additional quantity of 200 delineator drums has been provided to maintain traffic throughout each of the construction phases. Additional signing for changing roadway surfaces, per Standard Detail 704-26 Layout EE and GG, have been accounted for in Section 100 to be used at the Engineers discretion.
- 704-P08 PEDESTRIAN STREET CROSSING: Provide and maintain ADA compliant pedestrian crossing, per Standard Drawings D-750-1 and D-750-2, for Sheyenne Street at 40th Avenue for all phases, as shown in Section 100 plan sheets. Walking surface may be any of the following: maintained existing roadway surface, temporary asphalt surface, or newly constructed roadway surface. Gravel surface is not allowed.
- 704-P09 PORTABLE PRECAST CONCRETE MED BARRIERS: Place precast concrete median barriers, as described in standard detail D704-51, to protect crosswalk at intersection of Sheyenne Street and 40th Avenue, as shown in Section 100 plan sheets. Include all costs for installing, adjusting through phases, and removing at end of project in the unit price bid for "Portable precast concrete Med Barrier".
- 704-P10 WORK ZONE BUISNESS SIGNS: Work zone business way finder signs have been provided and shown in Section 100 for Tesoro, Dairy Queen, Town & Country Credit Union, and Eagle Run Plaza. Any additional business signs needed throughout the construction of the project will be developed in accordance with Standard Detail D-704-4. Exact sign location and names will be determined by the Engineer prior to installation. Include all costs for creating, installing, adjusting by phase, and removing work zone business signs at end of project in the price bid for "Traffic Control Signs".
- 704-P11 KENSINGTON DRIVE – HIDDEN CIRCLE CONNECTION: Sheyenne Street from Kensington Drive to 37th Avenue will remain open for the construction of Street Improvement District No. 2250 – Kensington Drive – Hidden Circle Connection as shown in Section 100. Coordinate with Scott Pederson with Northern Improvement during construction. This will be a temporary condition that is scheduled to be open to traffic by June 15th 2019.
- 708-P01 INLET PROTECTION SPECIAL: Place inlet protection into inlets. Inlet Protection Special to be Flexstorm Catch It by Inlet Pipe Protection Inc., Siltsack Type C by ACF Environmental, or approved Equal. Include all costs for furnishing, installing, maintaining (cleaning), and replacing damaged devices in the bid price for "Inlet Protection Special". Keep all installed devices in place until the turf has been established. If the turf has not been established by November 3rd, remove all installed devices in the street section that have potential to cause damage to snow removal equipment. Reinstall these devices in the spring as directed by the Engineer. No additional compensation will be provided as this work is considered normal maintenance.
- 714-P01 CONCRETE PIPE TIES: Concrete pipe runs from drainage structure (i.e. inlet, manhole, etc.) to end section to have concrete pipe ties placed on all joints including the end section. Pipe ties are not required for concrete pipe placed from drainage structure to drainage structure.
- 714-P02 STORM DRAINS AND CULVERTS: Provide bell and spigot with rubber gasket joints for reinforced concrete pipe storm drain.

Concrete pipe runs from drainage structure (i.e. inlet, manhole, etc.) to end section to have concrete pipe ties placed on all joints including the end section. Pipe ties are not required for concrete pipe placed from drainage structure to drainage structure.

Install all storm drain pipe crossings of roadways by means of open trenching. Shoring will be required to install proposed storm drain pipe, inlets, manholes, and catch basins. Shoring locations to be agreed upon by Contractor and Engineer. Include all costs for shoring in the price bid for other storm drain items.
- 722-100 INLETS AND MANHOLES: Inlets and manholes were designed with a minimum 4 foot riser height. Fill the bottom of each drainage structure with concrete, up to the lowest invert elevation.
- 722-P01 INLETS AND MANHOLE OFFSETS: All inlet and manhole offsets indicated in Section 50, Inlet and Manhole Summary, are to the center of structure. For Inlet Special structures, cast opening in center of cover.
- 722-P02 MANHOLE CASTINGS: Manhole castings to be installed are as follows. Storm drain castings will have open pickholes and "Storm Sewer" lettering. Sanitary sewer castings will have two closed pickholes, gaskets, and "Sanitary Sewer" lettering.
- Grass or Asphalt Pavement:
- Neenah R-1733
 - East Jordan Iron Works 1205 (Storm Drain)
 - East Jordan Iron Works 1205 A.G.S. (Sanitary Sewer)
 - Approved Equal
- Concrete Pavement:
- Neenah R-1955-1
 - East Jordan Iron Works 3025 SELFLEVEL
 - Approved Equal

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722-P03 INLET CASTINGS: Inlet castings to be installed in curb and gutter, grass, or outside of pavement are as follows:

Grass or Outside Pavement:

- a) Neenah R-2577 with Convex Casting Grate
- b) East Jordan Iron Works 1205-M2 with Convex Casting Grate
- c) Approved Equal

Curb & Gutter:

- a) Neenah R-3067-C with 2" Radius Open Curb Box
- b) East Jordan Iron Works 7030-M2 with T1 Back
- c) Approved Equal

Maintenance Manholes:

- a) Neenah R-1792-HL
- b) East Jordan Iron Works V1610-6
- c) Approved Equal

722-P04 CITY OF WEST FARGO SPECIFICATIONS: Refer to Special Provision 724(14) for specifications regarding sanitary sewer and water main items.

722-P05 MANHOLE CASTING: Remove and replace existing manhole castings to be located within proposed concrete paving with floating castings where indicated on the drawings. Include all labor, materials, and equipment to remove and salvage the existing casting, remove/add adjusting rings, and install new casting in the price bid for "Manhole Casting".

722-P06 MANHOLE REPAIR: Adjust existing manholes to final grade by means beyond adding or removing adjusting rings. Include all labor, materials, and equipment necessary to complete the modification to the existing manholes in the price bid for "Manhole Repair".

722-P07 ADJUST GATE VALVE BOX: Adjust top of existing gate valve boxes to final grade by adjusting existing risers. A maximum adjustment of 6" was assumed attainable using existing risers. Include all labor, materials, and equipment necessary to complete the adjustments to the existing gate valve boxes in the price bid for "Adjust Gate Valve Box".

722-P08 MANHOLE STORM CONNECTION: All connections to existing storm sewer or sanitary sewer involves cutting existing structures. Saw storm sewer opening, install pipe and mortar closed. Core sanitary sewer opening, install rubber boot, and install pipe. Include all labor and materials required to perform this work in the price bid for storm drain bid items.

722-P09 8FT X 6FT RCB CULVERT MANHOLE: Sewer Maintenance Manholes will require precast reinforced concrete box culvert manhole with base and cover as show in the plans. Prior to construction, verify depth of existing force main locations and provide information to Engineer. Engineer will adjust structure vertical dimensions based on verification. Submit work drawings to the Engineer for approval prior to construction. The location of installations are identified as MM1, MM2, and MM3.

Include all costs for the RCB culvert manhole riser, manhole base, manhole covers, casting, all interior items including piping, pipe supports, fittings, tees, knife gate valve and valve box, air valve, vent piping, trench excavation, aggregate base, and backfill, as indicated in Sewer Maintenance Manhole Detail in the price bid for "8FT X 6FT RCB Culvert Manhole".

722-P10 STORM MANHOLES: Storm sewer manholes to include external chimney seals by Cretex Specialty Products, Strike Products, or Sealing Systems Inc. Provide steps in the bottom section only.

722-P11 INLET SPECIAL GATE STRUCTURE: Install weir wall with canal gate in inlet as shown in the plans. Submit work drawings to the Engineer for approval prior to construction. Allow two (2) weeks for Engineer review. The location of installation is Inlet 400A which is located east of the proposed detention pond.

Canal gate to be mounted to weir wall, aluminum frame and cover. Non-rising operating nut on stainless steel stem to allow for operation of gate from the top of the inlet structure.

Approved Manufacturers and Models

- 1. Waterman Valve, LLC: AC-31
- 2. Whipps, Inc.: Series 800
- 3. Approved equal

Include all costs for the inlet (base, riser, and cover), weir wall, canal gate, reinforcing steel, castings, grates, adjustment rings, trench excavation, aggregate base, and backfill in the price bid for "Inlet Special Catch Basin-Type A 96IN".

724-P01 RELOCATE GATE VALVE BOX: Set top of existing gate valve boxes to final grade at their existing location by installing new risers. Adjustments greater than 6" were assumed to require a new riser. Existing rural water valve box at Sta. 522+07 – 23' Lt. will be replaced in its entirety per the detail in Section 20. Include all labor, materials, and equipment necessary to complete the modifications and/or replacements to existing gate valve boxes in the price bid for "Relocate Gate Valve Box".

724-P02 ADJUST HYDRANT: Adjust hydrant to final grade by adding or removing riser pipe. Adjustments less than 6" were assumed to not require adjustment. Provide a minimum distance between nozzle and ground of 24" and a maximum distance of 30". Wrap hydrant risers with 8-mil polyethylene plastic and securely tape. Include all labor, materials, and equipment necessary to complete the adjustments to the existing hydrants in the price bid for "Adjust Hydrant".

724-P03 EXISTING SANITARY SEWER FORCE MAIN: Keep the existing sanitary force mains in service until the new sanitary force main pipe is installed, tested, and ready for service. Only temporarily remove the existing force mains from operation for a limited time to make any connection. One to two (1-2) hour time limit allowable for the existing force main shutdown. Utilize overnight / off peak work hours to allow sufficient shutdown time to make reconnections. Closely coordinate all sanitary force main outages with the Engineer and City of West Fargo. Submit an operations plan detailing labor, equipment, materials, sequence of work, and contingency plans, a minimum of 1 week before shutdown for approval. Contact the Engineer and the City of West Fargo Assistant Public Works Director Ryan James – 701-433-5400 at least 72 hours prior to any shutdown.

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To assist the city in managing the sewer flows, provide personnel and equipment to operate two (2) tanker trucks (minimum 8,000 gallon capacity) and two (2) sewer vacuum trucks.

Contractor to provide a special operations plan for any shutdown longer than 2 hours in duration. Submit special operation plan to Engineer a minimum of 2 weeks before shutdown for approval.

724-P04 EXISTING WATER MAIN: Notify the Engineer and City of West Fargo Assistant Public Works Director Ryan James – 701-433-5400 at least 48 hours prior to any shutdown. Contact the City to locate necessary gate valves and to have the city shut appropriate valves after discussion with the Engineer and the City. Notify any home or business 24 hours before disruption of the water service. If the disruption lasts more than 4 hours, provide temporary water connections to the affected home or business. No overnight disruptions can occur without temporary water connections.

724-P05 RELOCATE WATERMAIN: When existing water mains are in conflict with the proposed storm sewer, relocate the water main. Include all materials (pipe, fittings, restraints, and sleeves), equipment and labor necessary to remove the existing pipe and adjust the water main as shown on the detail, in the price bid for “Relocate Watermain”.

724-P06 SPRINKLER RELOCATION: Existing irrigation systems are located within the project limits. Remove and reset irrigation systems to the right of way line. Repair damaged pipe and sprinkler heads. The locations of existing known irrigation systems are listed below:

- 3324 Sheyenne Street (Dairy Queen)
- 3342 Sheyenne Street (Town & Country Credit Union)
- 104 Golden Spike Road

Include all labor, material, and equipment necessary to remove existing sprinkler systems to outside of the right of way in the price bid for “Sprinkler Relocation”.

724-P07 CASS RURAL WATER DISTRICT: Existing Cass Rural Water District water mains are located within the project limits. These water mains are scheduled for abandonment prior to construction for Sheyenne Street.

Existing properties at 104 Golden Spike Road and 110 Golden Spike Road are currently served by a 2” Cass Rural Water District water main located in Sheyenne Street. These properties are responsible for connecting to the existing city water main. If the connections are not executed prior to abandonment of the 2” Cass Rural Water line identified in Phase 1, provide temporary water service to each property. Flush, disinfect, and bacteria test temporary water lines prior to activation in accordance with North Dakota Department of Health regulations. Include all labor, material, and equipment necessary to install, disinfect, maintain, and remove temporary water lines in the price bid for “Temporary Water Service”.

The Cass Rural Water District water main located south of 40th Avenue is scheduled to be abandoned by the district. If the main is not abandoned prior to underground work in this area, install one 2” - 90° Bend and adjust the vertical alignment of the main as needed to maintain water service to the Carmel Place Subdivision. All work associated with maintaining service for Cass Rural Water District to be included in the price bid for “Relocate Watermain”, “Fittings – Ductile Iron”, and/or “Relocate Gate Valve Box”.

748-P01 CURB AND GUTTER: Construct curb and gutter in accordance with the details in Section 20 of the plans. All roadway curb and gutter types shown in the plans, High Back Curb and Gutter and Knockdown Curb and Gutter will be included in the price bid for “Curb and Gutter Type I 30IN”.

750-P01 DRIVEWAYS: Driveways to be the thickness as indicated in Section 90 plan sheets and constructed in accordance with the detail in Section 20 plan sheets. All driveways are to be reinforced with No. 4 bars @ 24" on center both ways, placed mid-depth in the slab. All driveways are to be tied to existing curb and gutter or existing sidewalk by use of keyways or No. 4 x 12" dowel bars placed mid depth at 24" on center. All joints are to be sawed.

Include all costs for the labor, equipment, and material necessary to construct the driveways in the price bid for “Driveway Concrete 6in Reinforced”.

750-P02 SIDEWALKS: Sidewalks to be the thickness as indicated in Section 90 plan sheets and constructed in accordance with the detail in Section 20 plan sheets. Reinforce all sidewalks with a No. 4 deformed reinforcing bar placed 24 inches on center both ways. Include an 18 inch minimum lap at splice locations. Use plastic chairs to support the bars at mid-depth of the slab and ensure a clearance of 3 inches to all side forms.

Saw a centerline longitudinal joint on concrete sidewalk greater than 8 feet in width. Saw all longitudinal and transverse contraction joints. Saw joints in a timely manner to prevent any uncontrolled random cracking. If random cracking occurs, remove and replace all damaged panels at the contractor’s expense.

All sidewalk ramps to be 6” thick for a minimum of 6’ or to top of ramp, whichever is longer from existing curb and to be tied to curb and gutter with No. 4 x 12” epoxy coated rebar placed mid depth at 18” on center.

Include all costs for the labor, equipment, and material necessary to construct the sidewalks in the price bid for “Sidewalk Concrete Reinf” and “Sidewalk Concrete 5in Reinf”.

750-P03 DETECTABLE WARNING PANELS: Provide composite materials and yellow in color as specified in Section 885 of the Specification.

750-P04 CONCRETE MEDIAN NOSE PAVING: Apply retroreflective yellow epoxy pavement marking paint, unless otherwise noted as white in Section 120, to all proposed concrete median noses. Clean surface of all contamination including oil, dirt, grease, and curing compound prior to applying epoxy paint. Cleaning can be accomplished by sandblasting, waterblasting, or any other non-destructive process that is approved by the Engineer. Epoxy paint to meet the requirements of Section 762. Include all labor, materials, and equipment necessary to complete the application of epoxy pavement marking to median noses in the price bid for “Concrete Median Nose Paving”.

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750-P05 PIGMENTED IMPRINTED CONCRETE: Develop a mix design using any size coarse aggregate specified in specification Section 802.01 C.2, "Coarse Aggregate" and with a 60-40 fine aggregate-coarse aggregate ratio.

Provide a pigment from the list below or provide an approved equal. To be considered an approved equal, pigments must meet the requirements of ASTM C 979.

1. Number 338 Leather, produced by Soloman Colors, Inc. <http://www.solomoncolors.com/>;
2. Number 61078 Adobe, produced by Davis Colors <http://www.daviscolors.com/>;

When pigmented imprinted concrete abuts existing pigmented imprinted concrete, match existing color and pattern. Provide color and pattern sample to Engineer for approval.

Use the same supplier for all colored concrete placed under the contract.

Add pigment at the ratio recommended by the manufacturer directly into the mixer along with the aggregate, cement, and water. Add pigment while the mixer is operating at mixing speed. Continue mixing for 5 to 10 minutes or between 50 and 100 revolutions.

Form a pattern in the concrete using a roller to create an Ashlar Slate pattern.

Cure concrete using curing compound that meets the requirements of ASTM C 309, Type 1. Provide a cure from the list below or provide an approved equal. To be considered an approved equal, the cure must have a minimum of 25% acrylic solids.

1. Clear Guard® Cure and Seal by Butterfield Color
2. Dress & Seal 30™ by L&M Construction Chemicals

Reinforce the pigmented imprinted concrete as shown in Section 20 plan sheets.

Dowel the concrete into the adjacent concrete curb and gutter.

750-P06 SIDEWALK - DECORATIVE: Develop a mix design using any size coarse aggregate specified in Section 802.01 C.2, "Coarse Aggregate" and with a 60-40 fine aggregate-coarse aggregate ratio.

Provide a pigment from the list below or provide an approved equal for each concrete. To be considered an approved equal, pigments must meet the requirements of ASTM C 979.

Brown Concrete:

1. Number 338 Leather, produced by Soloman Colors, Inc. <http://www.solomoncolors.com/>;
2. Number 61078 Adobe, produced by Davis Colors <http://www.daviscolors.com/>

Before beginning work submit one (1) concrete mock up panel at 12"x12" size of each color as specified above to the Engineer for approval.

Use the same supplier for all colored concrete placed under the contract.

Add pigment at the ratio recommended by the manufacturer directly into the mixer along with the aggregate, cement, and water. Add pigment while the mixer is operating at mixing

speed. Continue mixing for 5 to 10 minutes or between 50 and 100 revolutions.

Reinforcing decorative sidewalks with a No. 4 deformed reinforcing bar placed 24 inches on center both ways. Including an 18 inch minimum lap at splice locations.

Saw a centerline longitudinal joint on concrete sidewalk greater than 8 feet in width. Saw all longitudinal and transverse contraction joints. Saw joints in a timely manner to prevent any uncontrolled random cracks. If random cracking occurs, remove and replace all damaged panels at the Contractor's expense.

Before beginning work, submit a reinforcement jointing plan for decorative sidewalk to the Engineer for approval.

Cure and seal concrete using L&M Dress and Seal curing compound. Apply two coats at highest application rate per manufactures recommendations.

Include all costs for the labor, equipment, and material necessary to construct the sidewalk in the price bid for "Sidewalk – Decorative".

752-P01 ORNAMENTAL FENCE: Fence is to be White color and 6' in height. Fence to be designed and installed per manufacturer's recommendations and to withstand Miami/Dade County 110 mph steady wind and 130 mph gusting wind tests. Provide fence from list below.

1. Chesterfield with CertaGrain Texture (as manufactured by CertainTeed Corporation)
2. Performance Privacy (as manufactured by Ply Gem)
3. Approved equal

Furnish manufacturer's 5-year warranty to cover all material defects. Warranty to include all labor, equipment and replacement materials. All costs necessary to complete the work included in the price bid for "Ornamental Fence".

754-P01 FLAT SHEET FOR SIGNS: Flat Sheet For Signs-Type XI Refl Sheeting to be 3M Diamond Grade (DG3). Flat Sheet For Signs-Type IV Refl Sheeting to be 3M High Intensity Prismatic Reflective.

754-P02 REMOVE SIGNS & SUPPORTS: Salvage street signs, sign panels, and surface mounted breakaway bases. Deliver to the City of West Fargo Sign Shop at 327L 34th Avenue East. Coordinate delivery with City of West Fargo Assistant Public Works Director Ryan James at 701-433-5400 a minimum of 24 hours in advance. All remaining signs and supports not to be reset will become the property of the Contractor.

Include all costs to remove and deliver signs and supports in the price bid for "Flat Sheet for Signs-Type __ Refl Sheeting" and "Steel Galv Posts-Telescoping Perforated Tube".

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762-050 PAVEMENT MARKING: If the Engineer and Contractor agree, plan quantity will be used as the measurement for payment for pavement marking items.

766-P01 MAILBOX-ALL TYPES: Remove and salvage existing mailboxes as indicated on the plans. Provide temporary mailboxes outside of construction limits. Following construction, reset mailboxes. Notify the affected landowner and the US Postal Service a minimum of 5 business days before mailboxes are moved. Coordinate final location of mailboxes with US Postal Service. Include all labor, materials, and equipment to remove and reset existing mailboxes and provide temporary mailboxes in the price bid for "Mailbox-All Types".

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772-P19 ACCESSIBLE PEDESTRIAN SIGNALS (APS) PUSHBUTTON AND SIGN: Provide pedestrian pushbuttons that meet the requirements of accessible pedestrian signal (APS) pushbuttons and include the features, installation procedures and be compliant with the following:

A. Features:

1. Rapid tick WALK indication, no more than 2–5dBA above ambient sound
2. Vibrotactile WALK indication
3. Speaker and vibrotactile indication located at pushbutton
4. Pushbutton locator tone
5. Tactile arrow on each device aligned in direction of travel on the crosswalk

B. Code Compliance:

1. Functionality: MUTCD 2009 - 4E
2. Temperature and Humidity: NEMA TS 2
3. Transient Voltage Protection: NEMA TS 2
4. Transient Suppression: IEC 61000-4-4, IEC 61000-4-5
5. Electronic Noise: FCC Title 47, Part 15, Class A
6. Mechanical Shock and Vibration: NEMA TS 2
7. EN4 PBS Enclosure: NEMA 250 - Type 4X
8. Electrical Reliability: NEMA TS 4

Include the cost for the accessible pedestrian signals pushbutton and sign in the item “Traffic Signal System – Site _”.

772-P20 PORTABLE TRAFFIC SIGNALS: Provide Portable traffic signals at the intersection of 40th Ave W & 9th St W and 32nd Ave W & 9th St W. Before the portable traffic signals are activated, place supplementary traffic control devices including but not limited to signs and delineator drums. The proposed sign and delineator drum locations may vary from the plans based upon traffic control configurations.

Technical Requirements:

- Meet all applicable MUTCD standards and guidance.
- Communicate between each portable device via wireless radio link.
- Include a signal controller that is NEMA compliant and capable of manual timing entry.
- Include a conflict monitor

Prior to installation, sync and troubleshoot all of the portable devices to ensure proper signal coordination between portable devices. Remove the portable signals immediately when not needed. Obtain the electrical source to operate the portable traffic signals. Arrange with the utility company or provide generators for electrical service. Solar powered traffic signals may be used.

The Contractor is responsible for all costs of providing the electrical source. If a utility company is used, all equipment shall be placed outside the roadway.

Include all labor and equipment necessary to furnish, install, maintain and remove the portable traffic signal systems in the price bid for “Interim Traffic Signals”. The “Interim Traffic Signals” bid item will be paid for by each intersection.

The Engineer will not pay for the reuse, relocation, and replacement of portable traffic signals

772-P21 FIBER OPTIC CONNECTION: Supply MOXA EDS-P510 switches in the traffic signal controller cabinets as shown in the plans. Include all labor, equipment, and material to install the switches in the traffic signal cabinets in the price bid for “IT SYSTEM”.

772-P22 FIBER OPTIC RELOCATION: Remove and relocate the existing fiber optic cable as shown in Section 160 Sheet 3. Provide new conduit as needed to accommodate the new pull box locations. Use extreme care to not damage the existing fiber optic cable. Remove the existing splices as indicated in the plans and re-splice the existing fiber after it has been relocated. Contractor is responsible to repair any damage done to the existing fiber optic cable. The repairs to be made are at the discretion of the Engineer. Include all labor, equipment, and material to relocate the existing fiber optic pull box in in the price bid for “IT SYSTEM”.

772-P23 SIGNAL TIMINGS: Contact Mike Bittner with KLJ at (701) 232-5353 for the signal timings to be programmed into the traffic signal controllers. Include all costs, labor, materials and equipment necessary to program the signal timings into all controllers in the price bid for “Traffic Signal System – Site _”.

772-P24 FULLY OPERATIONAL SIGNAL: The traffic signal at 40th Ave W is to be fully operational by Interim Completion Date No. 1, June 15th, 2019. This includes but is not limited to the cabinet, traffic signal controller, traffic signals standards, vehicle and pedestrians signal heads, pedestrian pushbuttons and all other equipment required to for a fully operational traffic signal.

This document was originally issued and sealed by Jeremy Melquist Registration Number PE-27433, on 10/31/2018 and the original document is stored at the City of West Fargo

SPEC	CODE	BID ITEM	UNIT	FEDERAL ELIGIBLE	100% CITY FUNDS	DRAINAGE (70% FEDERAL) (30% CITY)	TOTAL
103	0100	CONTRACT BOND	L SUM	1			1
201	0330	CLEARING & GRUBBING	L SUM	1			1
201	0370	REMOVAL OF TREES 10IN	EA	11			11
201	0380	REMOVAL OF TREES 18IN	EA	1			1
202	0104	REMOVAL OF STRUCTURE	EA	3			3
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	2,214	421		2,635
202	0130	REMOVAL OF CURB & GUTTER	LF	2,351	229		2,580
202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	1,586	71		1,657
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	1,946			1,946
202	0210	REMOVAL OF MANHOLES	EA	5			5
202	0230	REMOVAL OF INLETS	EA	6			6
202	0286	REMOVAL OF FOUNDATIONS-ALL SIZES	L SUM	1			1
202	0312	REMOVE EXISTING FENCE	LF	596			596
203	0101	COMMON EXCAVATION-TYPE A	CY	46,181.0			46,181.0
203	0109	TOPSOIL	CY	13,933.1			13,933.1
203	0125	REMOVE & SALVAGE TOPSOIL	CY	1,680.0			1,680.00
203	0138	COMMON EXCAVATION-SUBCUT	CY	1,500			1,500
216	0100	WATER	M GAL	4,500			4,500
230	0300	SUBGRADE PREPARATION-TYPE A	STA	78			78
251	0300	SEEDING CLASS III	ACRE	16.04			16.04
253	0201	HYDRAULIC MULCH	ACRE	34.14			34.14
253	0301	BONDED FIBER MATRIX	ACRE	9.95			9.95
260	0200	SILT FENCE SUPPORTED	LF	2,085			2,085
260	0201	REMOVE SILT FENCE SUPPORTED	LF	1,035			1,035
261	0112	FIBER ROLLS 12IN	LF	4,000			4,000
261	0113	REMOVE FIBER ROLL 12IN	LF	4,000			4,000
302	0050	TRAFFIC SERVICE AGGREGATE	TON	1,521			1,521
302	0121	AGGREGATE BASE COURSE CL 5	CY	19,744	103		19,847
302	9970	TYPE II PIPE BEDDING	CY	965			965
306	0510	FULL DEPTH RECLAMATION	SY	37,703			37,703
430	0043	SUPERPAVE FAA 43	TON	2,338			2,338
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	1,441	62		1,503
430	1000	CORED SAMPLE	EA	16			16
430	5806	PG 58H-28 ASPHALT CEMENT	TON	140			140
550	0310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED	SY	38,552			38,552
622	6760	STEEL SHEET PILING	SF	6,125			6,125
624	0123	PEDESTRIAN RAILING	LF	71			71
702	0100	MOBILIZATION	L SUM	1			1
704	0100	FLAGGING	MHR	1,600			1,600
704	1000	TRAFFIC CONTROL SIGNS	UNITS	5,776			5,776
704	1052	TYPE III BARRICADES	EA	55			55
704	1054	SIDEWALK BARRICADE	EA	23			23
704	1060	DELINEATOR DRUMS	EA	247			247
704	1067	TUBULAR MARKERS	EA	100			100
704	1080	STACKABLE VERTICAL PANELS	EA	55			55
704	3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF	160			160
704	4011	PORTABLE CHANGEABLE MESSAGE BOARD	EA	6			6
708	1531	INLET PROTECTION - FIBER ROLL 12IN	EA	66			66
708	1533	REMOVAL INLET PROTECTION-FIBER ROLL 12IN	EA	66			66
708	1540	INLET PROTECTION - SPECIAL	EA	48			48
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	48			48
709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	65,382	386		65,768
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN	LF	2,472			2,472
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN	LF	724		622	1,346
714	0620	PIPE CONC REINF 24IN CL III-STORM DRAIN	LF	313		230	543
714	0825	PIPE CONC REINF 30IN CL III-STORM DRAIN	LF			971	971
714	0910	PIPE CONC REINF 36IN CL III-STORM DRAIN	LF			1,252	1,252
714	1010	PIPE CONC REINF 42IN CL III-STORM DRAIN	LF			1,136	1,136
714	1110	PIPE CONC REINF 48IN CL III-STORM DRAIN	LF			1,541	1,541
714	1212	PIPE CONC REINF 54IN CL III-STORM DRAIN	LF			116	116
714	9680	PLUG PIPE-ALL TYPES & SIZES	EA	3			3
714	9696	EDGEDRAIN NON PERMEABLE BASE	LF	12,304			12,304
714	9730	UNDERDRAIN PIPE PVC PERFORATED 6IN	LF	1,030			1,030

SPEC	CODE	BID ITEM	UNIT	FEDERAL ELIGIBLE	100% CITY FUNDS	DRAINAGE (70% FEDERAL) (30% CITY)	TOTAL
722	0100	MANHOLE 48IN	EA	5			5
722	0110	MANHOLE 60IN	EA	6			6
722	0120	MANHOLE 72IN	EA	9			9
722	0130	MANHOLE 84IN	EA	6			6
722	0200	MANHOLE 108IN	EA	1			1
722	0315	MANHOLE CASTING	EA	3			3
722	0428	8FT X 6FT RCB CULVERT MANHOLE	EA		3		3
722	1100	MANHOLE RISER 48IN	LF	38.0			38.0
722	1110	MANHOLE RISER 60IN	LF	41.4			41.4
722	1120	MANHOLE RISER 72IN	LF	64.6			64.6
722	1130	MANHOLE RISER 84IN	LF	82.8			82.8
722	1200	MANHOLE RISER 108IN	LF	17.6			17.6
722	3410	MANHOLE REPAIR	EA	4			4
722	3510	INLET-TYPE 2	EA	12			12
722	3520	INLET-TYPE 2 DOUBLE	EA	14			14
722	3701	INLET SPECIAL-TYPE 2 48IN	EA	7			7
722	3740	INLET SPECIAL CATCH BASIN-TYPE A 48IN	EA	4			4
722	3769	INLET SPECIAL-TYPE 2 96IN	EA	1			1
722	4000	INLET CATCH BASIN-TYPE A	EA	27			27
722	6140	ADJUST GATE VALVE BOX	EA	2			2
722	6160	ADJUST INLET	EA	2			2
722	6200	ADJUST MANHOLE	EA	1			1
722	6248	ADJUST 3IN WATERMAIN	EA	3			3
724	0210	FITTINGS-DUCTILE IRON	LBS		4,227		4,227
724	0300	GATE VALVE & BOX 6IN	EA		1		1
724	0310	GATE VALVE & BOX 8IN	EA		1		1
724	0317	GATE VALVE & BOX 16IN	EA		4		4
724	0375	RELOCATE GATE VALVE & BOX	EA	17			17
724	0400	HYDRANT-INSTALL 6IN	EA		3		3
724	0427	ADJUST HYDRANT	EA	2			2
724	0552	TAPPING SLEEVE & VALVE 16IN X 8IN	EA		3		3
724	0571	TAPPING SLEEVE & VALVE 20IN X 4IN	EA		1		1
724	0611	WATER SERVICE LINE 1IN	LF		157		157
724	0621	WATER SERVICE LINE 2IN	LF		76		76
724	0810	WATERMAIN 6IN PVC	LF		17		17
724	0830	WATERMAIN 8IN PVC	LF		412		412
724	0852	WATERMAIN 16IN PVC	LF		715		715
724	0860	20IN FORCEMAIN	LF		714		714
724	0892	RELOCATE WATERMAIN	EA	11			11
724	0955	WATER SERVICE CONNECTION 1IN	EA		2		2
724	0960	WATER SERVICE CONNECTION 2IN	EA		1		1
724	1035	SPRINKLER RELOCATION	L SUM	1			1

Sheyenne Street
Estimate of Quantities

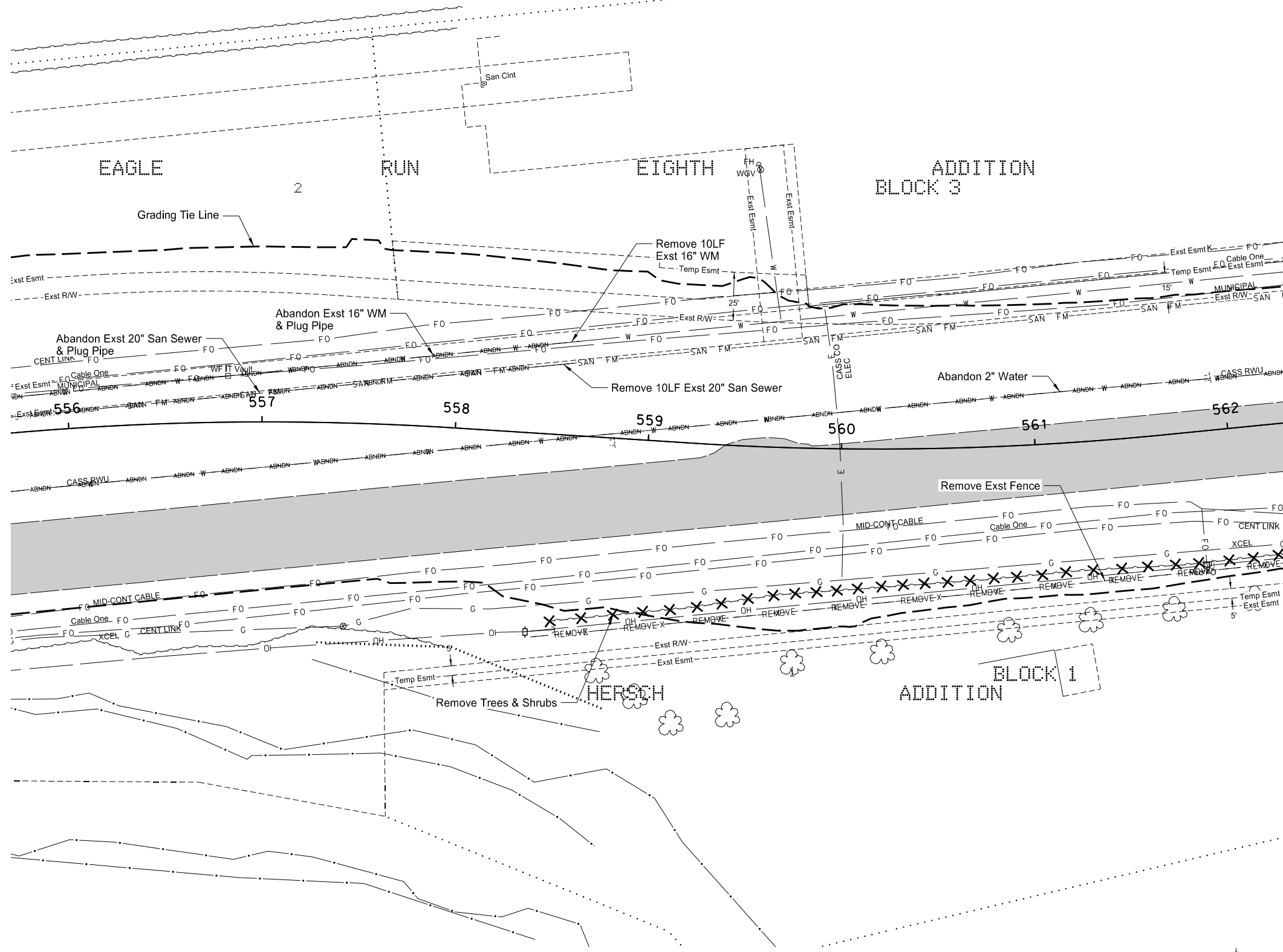
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SPEC	CODE	BID ITEM	UNIT	FEDERAL ELIGIBLE	100% CITY FUNDS	DRAINAGE (70% FEDERAL) (30% CITY)	TOTAL
724	9018	FORCEMAIN 4IN	LF		112		112
724	9022	FORCEMAIN 8IN	LF		483		483
724	9024	FORCEMAIN 10IN	LF		46		46
724	9028	FORCEMAIN 16IN	LF		147		147
744	0050	INSULATION BOARD	CF		42		42
748	0190	CURB & GUTTER-TYPE I 30IN	LF	23,265	200		23,465
750	0030	PIGMENTED IMPRINTED CONCRETE	SY	3,186	92		3,278
750	0101	SIDEWALK CONCRETE REINF	SY	224			224
750	0107	SIDEWALK - DECORATIVE	SY	158			158
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	11,464			11,464
750	0210	CONCRETE MEDIAN NOSE PAVING	SY	214	15		229
750	1016	DRIVEWAY CONCRETE 6IN REINFORCED	SY	545			545
750	2115	DETECTABLE WARNING PANELS	SF	680			680
752	0850	ORNAMENTAL FENCE	LF	456			456
752	0911	TEMPORARY SAFETY FENCE	LF	1,635			1,635
754	0110	FLAT SHEET FOR SIGNS - TYPE XI REFLECTIVE SHEETING	SF	473			473
754	0112	FLAT SHEET FOR SIGNS - TYPE IV REFLECTIVE SHEETING	SF	98			98
754	0170	FLEXIBLE DELINEATORS	EA	29			29
754	0206	STEEL GALV POSTS - TELESCOPING PERFORATED TUBE	LF	537			537
754	0592	RESET SIGN PANEL	EA	2			2
762	0122	PREFORMED PATTERNED PVMT MK-MESSAGE(GROOVED)	SF	895			895
762	0420	SHORT TERM 4IN LINE-TYPE R	LF	825			825
762	0426	SHORT TERM 24IN LINE-TYPE R	LF	108			108
762	0436	SHORT TERM 24IN LINE-TYPE NR	LF	70			70
762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	LF	4,588			4,588
762	1309	PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED	LF	5,232			5,232
762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED	LF	2,050			2,050
762	1344	PREF PATT PVMT MK 7IN LINE CONTRAST-GROOVED	LF	2,399			2,399
766	0100	MAILBOX-ALL TYPES	EA	4			4
770	0003	LIGHTING SYSTEM A	EA	1			1
772	2800	INTERIM TRAFFIC SIGNALS	EA	2			2
772	2810	TEMPORARY TRAFFIC SIGNAL	EA	2			2
772	9200	IT SYSTEM	EA	1			1
772	9811	TRAFFIC SIGNAL SYSTEM - SITE 1	EA	1			1
772	9812	TRAFFIC SIGNAL SYSTEM - SITE 2	EA	1			1
772	9813	TRAFFIC SIGNAL SYSTEM - SITE 3	EA	1			1
970	0001	LANDSCAPING APPURTENANCES	LSUM	1			1
970	0002	LANDSCAPE EDGING	LF	1,053			1,053
970	0009	LANDSCAPE PREPARATION	ACRE	151.80			151.80
970	0105	HERBICIDE WEED CONTROL	SF	141,500			141,500
970	2014	EMBERS AMUR MAPLE - TREE FORM	EA	9			9
970	2050	COMMON HACKBERRY	EA	22			22
970	2140	KENTUCKY COFFEETREE	EA	21			21
970	2150	NORTHERN ACCLAIM HONEYLOCUST	EA	23			23
970	2191	PINK SPIRES CRABAPPLE	EA	18			18
970	2192	PRAIRIE FIRE CRABAPPLE	EA	8			8
970	2203	GLADIATOR CRABAPPLE	EA	12			12
970	2215	PRINCESS KAY PLUM	EA	6			6
970	2300	PRAIRIE GEM PEAR	EA	33			33
970	2392	IVORY SILK LILAC	EA	32	4		36
970	2436	HARVEST GOLD LINDEN	EA	13			13
970	2470	DISCOVERY ELM	EA	22			22
970	5050	CRIMSON PYGMY BARBERRY	EA	12			12
970	5120	MEADOWLARK FORSYTHIA	EA	26			26
970	5167	DIABOLO NINEBARK	EA	26			26
970	5196	DAKOTA SUNSPOT POTENTILLA	EA	5	5		10
970	6016	DAYLILIES-CONTAINER	EA	163	12		175
970	6326	RUSSIAN SAGE	EA	27	6		33
970	7000	LITTLE BLUE STEM	EA	231			231
970	7050	KARL FOERSTER	EA	160	8		168
970	7056	MISCANTHUS SINENSIS PURPURASCENS	EA	25			25

Sheyenne Street
Estimate of Quantities

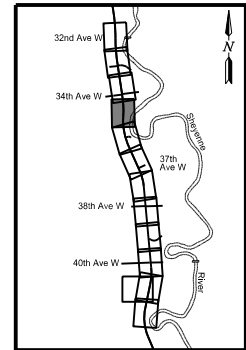
Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	40	9

SPEC CODE	BID ITEM	QTY	UNIT
202 0174	REMOVAL OF PIPE ALL TYPES AND SIZES		
	Sta. 558+49 - 36' Lt. to 558+59 - 37' Lt.	10	LF
	Sta. 558+52 - 47' Lt. to 558+62 - 49' Lt.	10	LF
202 0312	REMOVE EXISTING FENCE		
	Sta. 558+46 - 106' Rt. to 562+00 - 74' Rt	369	LF
306 0510	FULL DEPTH RECLAMATION		
	Sheyenne Street	2,448	SY



LEGEND

	Full Depth Reclamation of Bituminous Surfacing		Removal of Bituminous Surfacing
	Removal of Concrete		Abandon Pipe
	Removal of Gravel Surfacing		Removal of Pipe
	Removal Landscaping Material		Trim Trees & Shrubs
	Removal of Curb & Gutter		Removal of Tree/Shrub

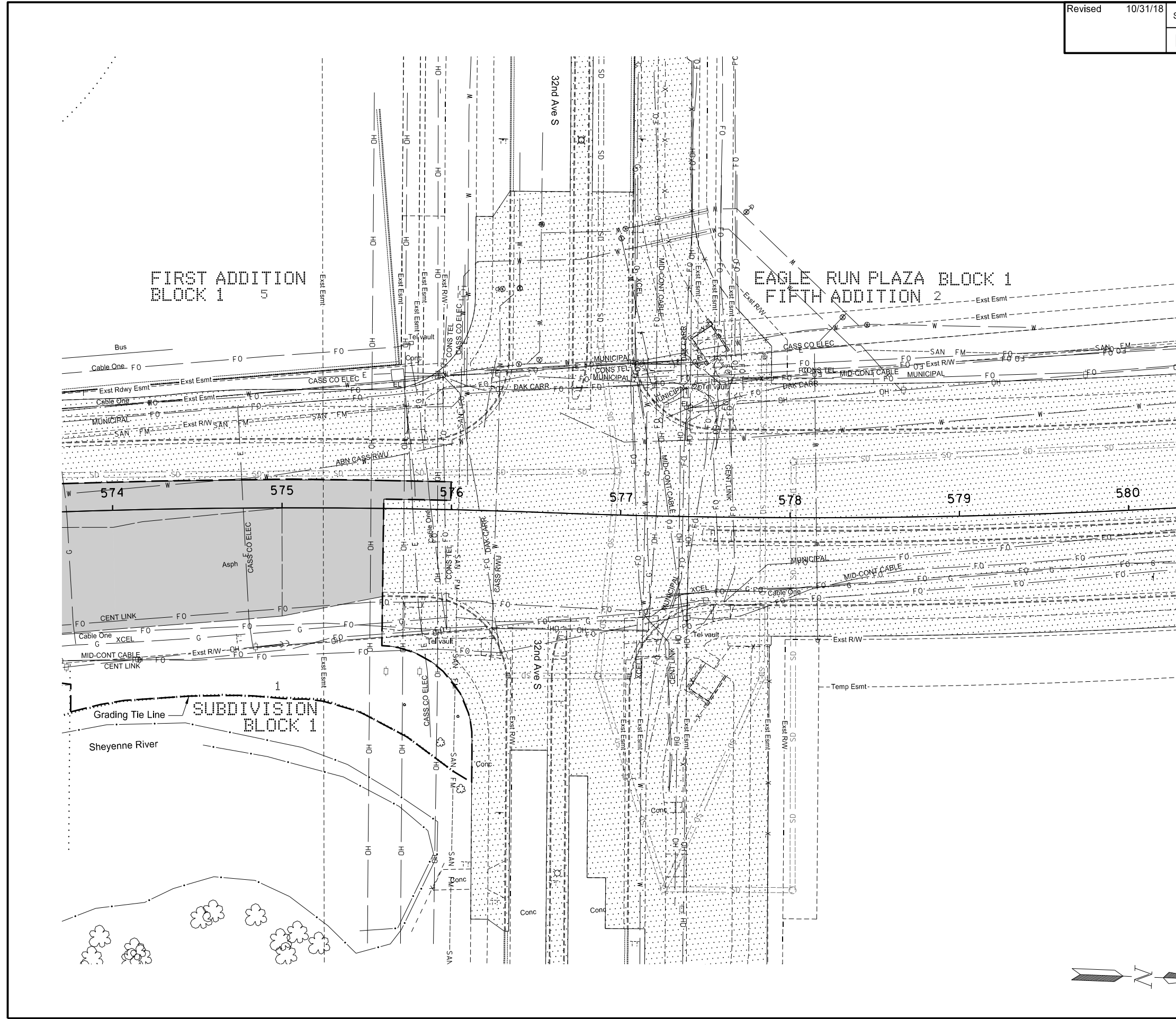


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Sheyenne Street
Removals
Sta 556+00 to Sta 562+00 (PR17)

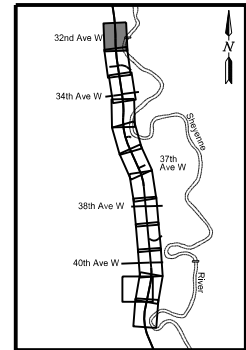
Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	40	12

SPEC CODE	BID ITEM	QTY	UNIT
306	0510 FULL DEPTH RECLAMATION Sheyenne Street	1,468	SY



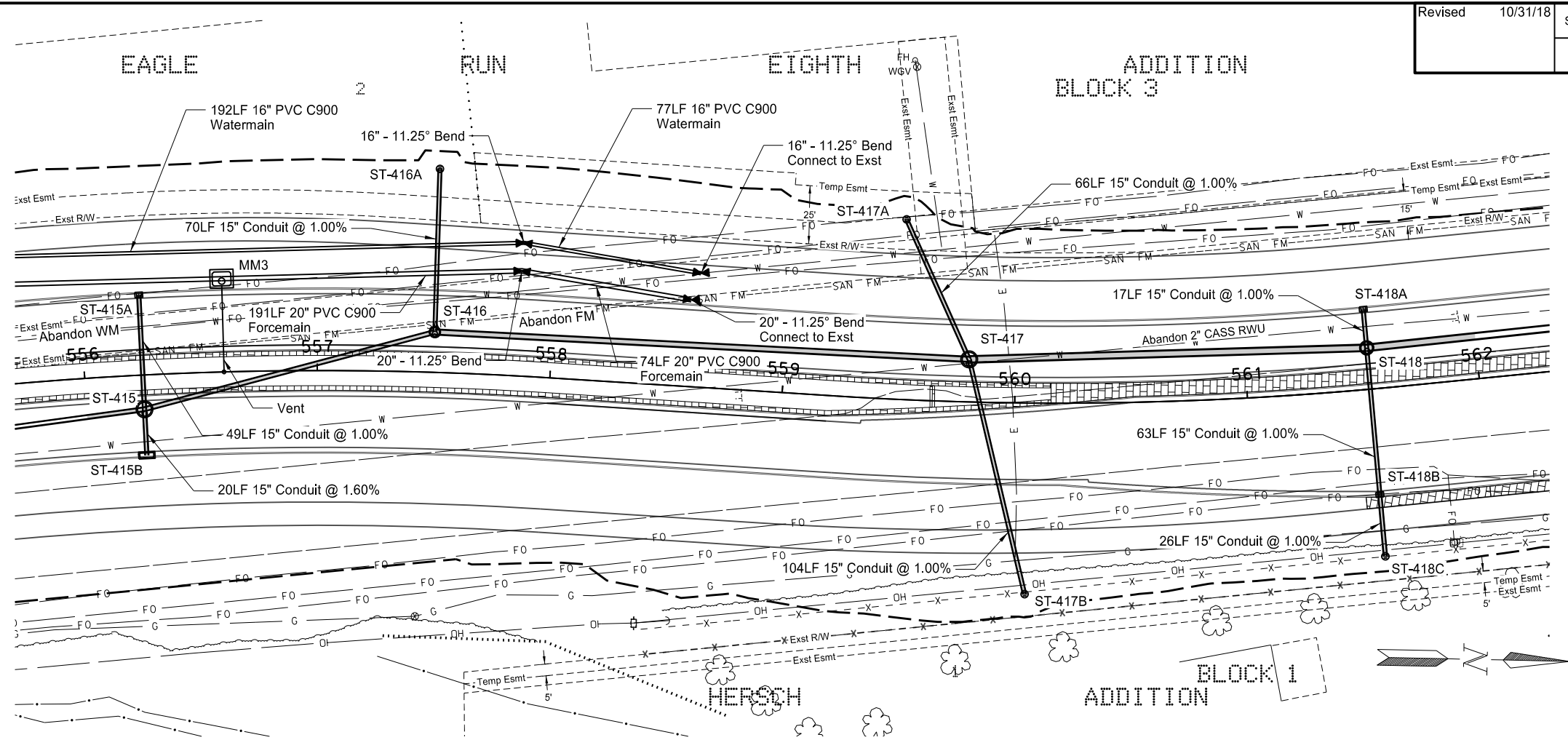
LEGEND

	Full Depth Reclamation of Bituminous Surfacing		Removal of Bituminous Surfacing
	Removal of Concrete		Abandon Pipe
	Removal of Gravel Surfacing		Removal of Pipe
	Removal Landscaping Material		Trim Trees & Shrubs
	Removal of Curb & Gutter		Removal of Tree/Shrub
	NDDOT PROJECT SU-8-992(039)040 (2018)		



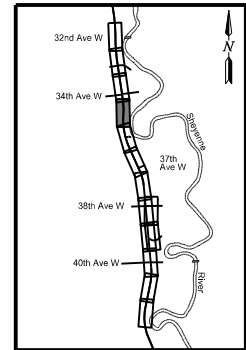
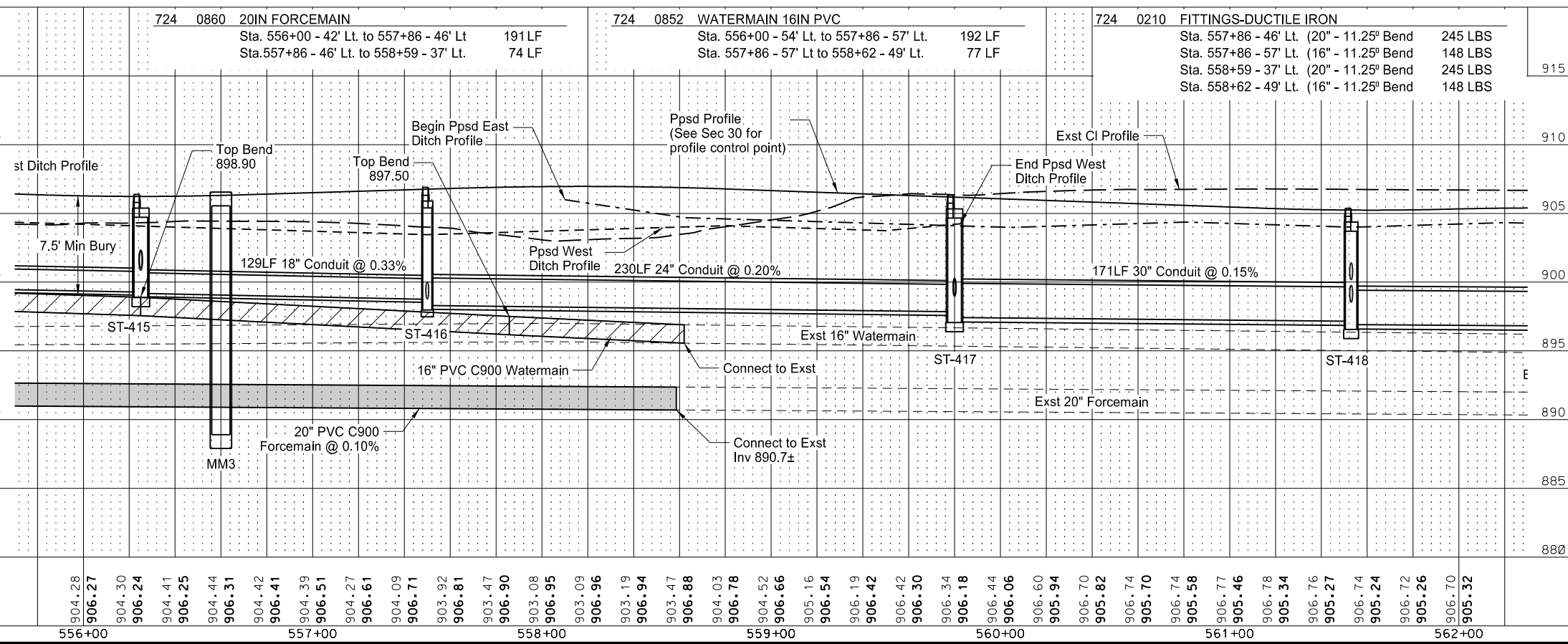
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Sheyenne Street
Removals
Sta 574+00 to Sta 580+00 (PR17)



SPEC CODE	BID ITEM	QTY	UNIT
714 210	PIPE CONC REINF 15IN CL III-STORM DRAIN 415A to 415 415B to 415 416A to 416 417A to 417 417B to 417 418A to 418 418B to 418 418C to 418B	49 LF 20 LF 70 LF 66 LF 104 LF 17 LF 63 LF 26 LF	
714 315	PIPE CONC REINF 18IN CL III-STORM DRAIN 415 to 416	129 LF	
714 620	PIPE CONC REINF 24IN CL III-STORM DRAIN 416 to 417	230 LF	
714 825	PIPE CONC REINF 30IN CL III-STORM DRAIN 417 to 418	171 LF	
722 0100	MANHOLE 48IN 416	1 EA	
722 0110	MANHOLE 60IN 418	1 EA	
722 0120	MANHOLE 72IN 415, 417	2 EA	
722 0428	8FT X 6FT RCB CULVERT MANHOLE MM3	1 EA	
722 1100	MANHOLE RISER 48IN 416	7.0 LF	
722 1110	MANHOLE RISER 60IN 418	6.7 LF	
722 1120	MANHOLE RISER 72IN 415, 417	12.6 LF	
722 3510	INLET-TYPE 2 415A, 418A, 418B	3 EA	
722 3520	INLET-TYPE 2 DOUBLE 415B	1 EA	
722 4000	INLET CATCH BASIN-TYPE A 416A, 417A, 417B, 418C	4 EA	

Station	Profile	Material	Length	Weight
556+00	20IN FORCEMAIN	20IN PVC C900	191 LF	245 LBS
556+00 - 42' Lt. to 557+86 - 46' Lt.				
557+86 - 46' Lt. to 558+59 - 37' Lt.			74 LF	148 LBS
559+00	WATERMAIN 16IN PVC	16IN PVC C900	192 LF	245 LBS
556+00 - 54' Lt. to 557+86 - 57' Lt.				
557+86 - 57' Lt. to 558+62 - 49' Lt.			77 LF	148 LBS
560+00	FITTINGS-DUCTILE IRON			
557+86 - 46' Lt. (20" - 11.25° Bend			245 LBS	
557+86 - 57' Lt. (16" - 11.25° Bend			148 LBS	
558+59 - 37' Lt. (20" - 11.25° Bend			245 LBS	
558+62 - 49' Lt. (16" - 11.25° Bend			148 LBS	



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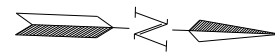
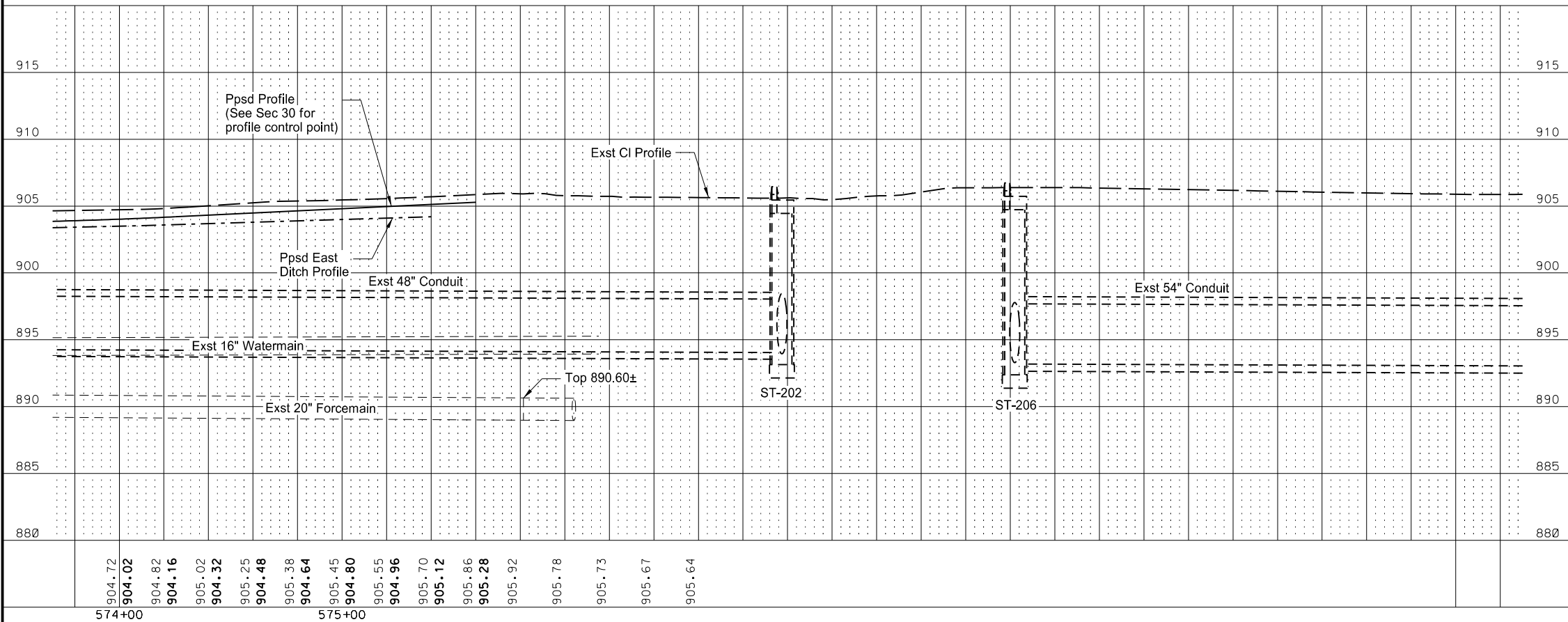
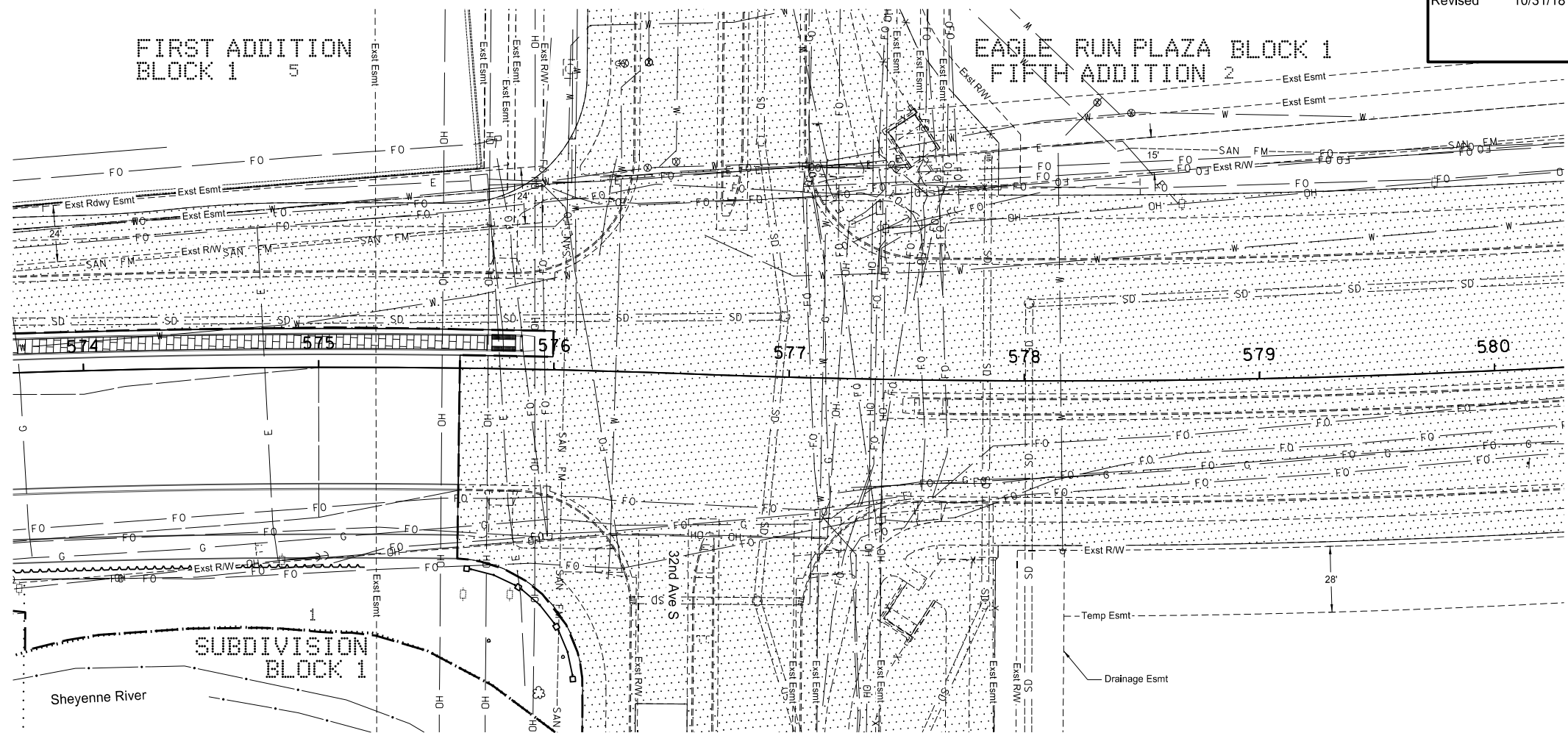
Sheyenne Street
Drainage Layout
Sta 556+00 to Sta 562+00

FIRST ADDITION
BLOCK 1 5

EAGLE RUN PLAZA BLOCK 1
FIFTH ADDITION 2

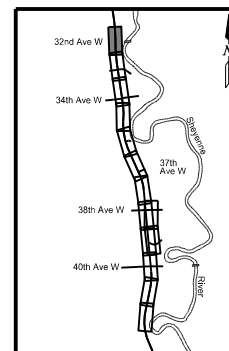
Revised 10/31/18

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SU-8-992(040)041	55	12



LEGEND

NDDOT PROJECT
SU-8-992(039)040 (2018)



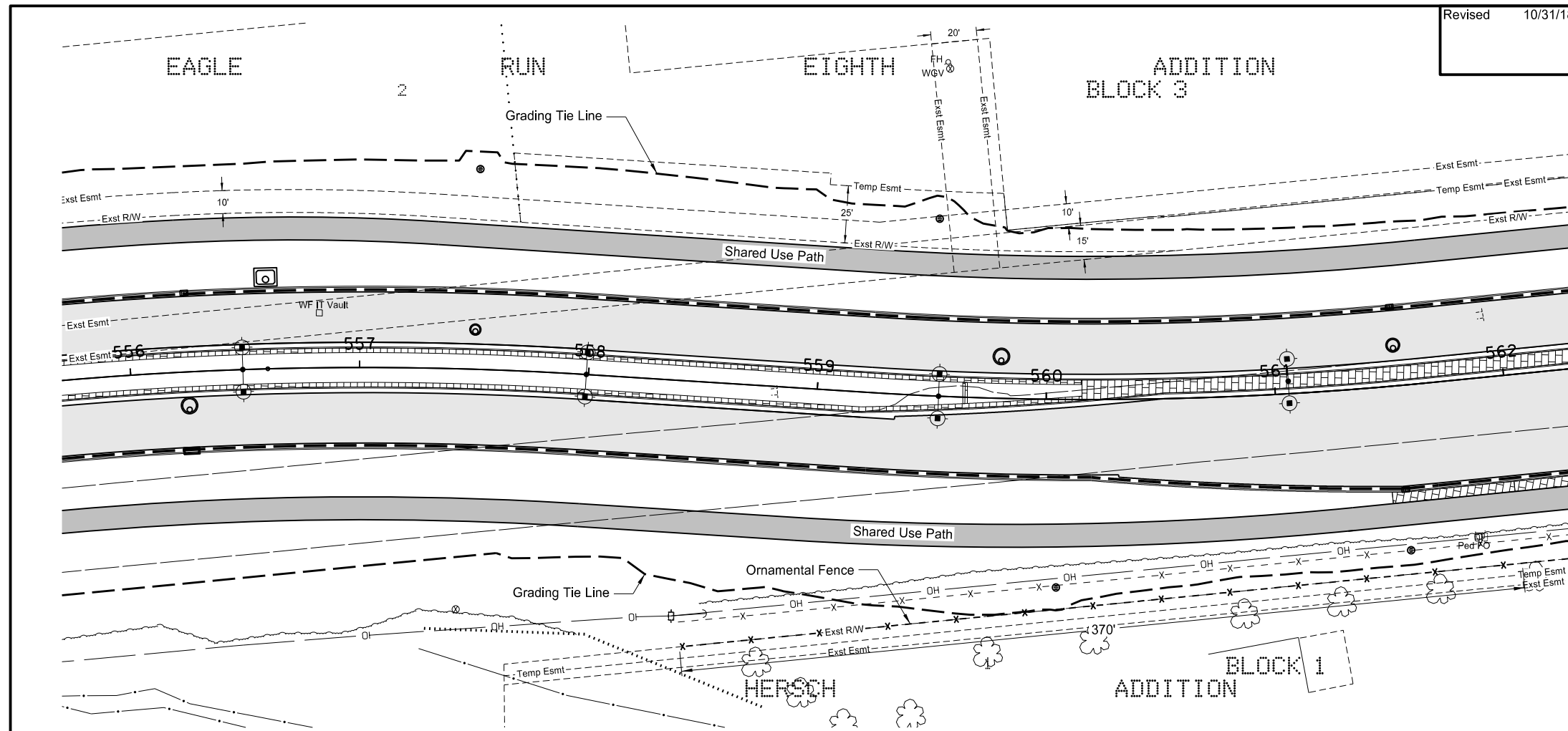
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Sheyenne Street
Drainage Layout
Sta 574+00 to Sta 580+00

SPEC CODE BID ITEM QTY UNIT

714 9696 EDGEDRAIN NON PERMEABLE BASE
Sta. 556+00 to 562+00 1,201 LF

752 0850 ORNAMENTAL FENCE
Sta. 556+00 to 562+00 370 LF



LEGEND

	10IN PCC PAVEMENT		COMMERCIAL GRADE HOT MIX ASPHALT
	PIGMENTED IMPRINTED CONCRETE		SUPERPAVE FAA 43
	AGGREGATE SURFACE COURSE CL 13		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
	EDGEDRAIN (SEE SECTION 20 FOR DETAILS)		SIDEWALK CONCRETE REIN (4IN)
			CONCRETE DRIVEWAY 6IN

CI Profile Info		West Ditch Profile Info		st Ditch Profile		East Ditch Profile Info		
925	VP1: 556+25.00 EL: 906.13 K: = 80 L: = 80.00'							
920	5+50.00 .45	VP1: 557+50.00 EL: 903.45	VP1: 558+80.00 EL: 904.10	VP1: 559+50.00 EL: 903.75				
915								
910		Begin Ppsd East Ditch Profile	Ppsd Profile (See Sec 30 for profile control point)	End Ppsd West Ditch Profile	Exst CI Profile			
905		+0.5000%	-0.6000%	-0.5000%	+0.4000%			
900		-0.5000%	+0.5000%	-0.5000%	+0.5000%			
895								
890			VP1: 558+62.22 EL: 904.69	VP1: 560+05.00 EL: 903.98	VP1: 560+81.32 EL: 904.36	VP1: 561+53.75 EL: 904.00	VP1 EL:	
	904.28 906.27 904.30 906.24 904.41 906.25 904.44 906.31 904.42 906.41 904.39 906.51 904.27 906.61 904.09 906.71 903.92 906.81 903.47 906.90 903.08 906.95 903.09 906.96 903.19 906.94 903.47 906.88 904.03 906.78 904.52 906.66 903.16 906.54 906.19 906.42 906.42 906.30 906.34 906.18 906.44 906.06 906.60 905.94 906.70 905.82 906.74 905.70 906.74 905.58 906.77 905.46 906.78 905.34 906.76 905.27 906.74 905.24 906.72 905.26 906.70 905.32	556+00	557+00	558+00	559+00	560+00	561+00	562+00

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Sheyenne Street
Plan and Profile
Sta 556+00 to Sta 562+00 (PR17)

FIRST ADDITION
BLOCK 1 5

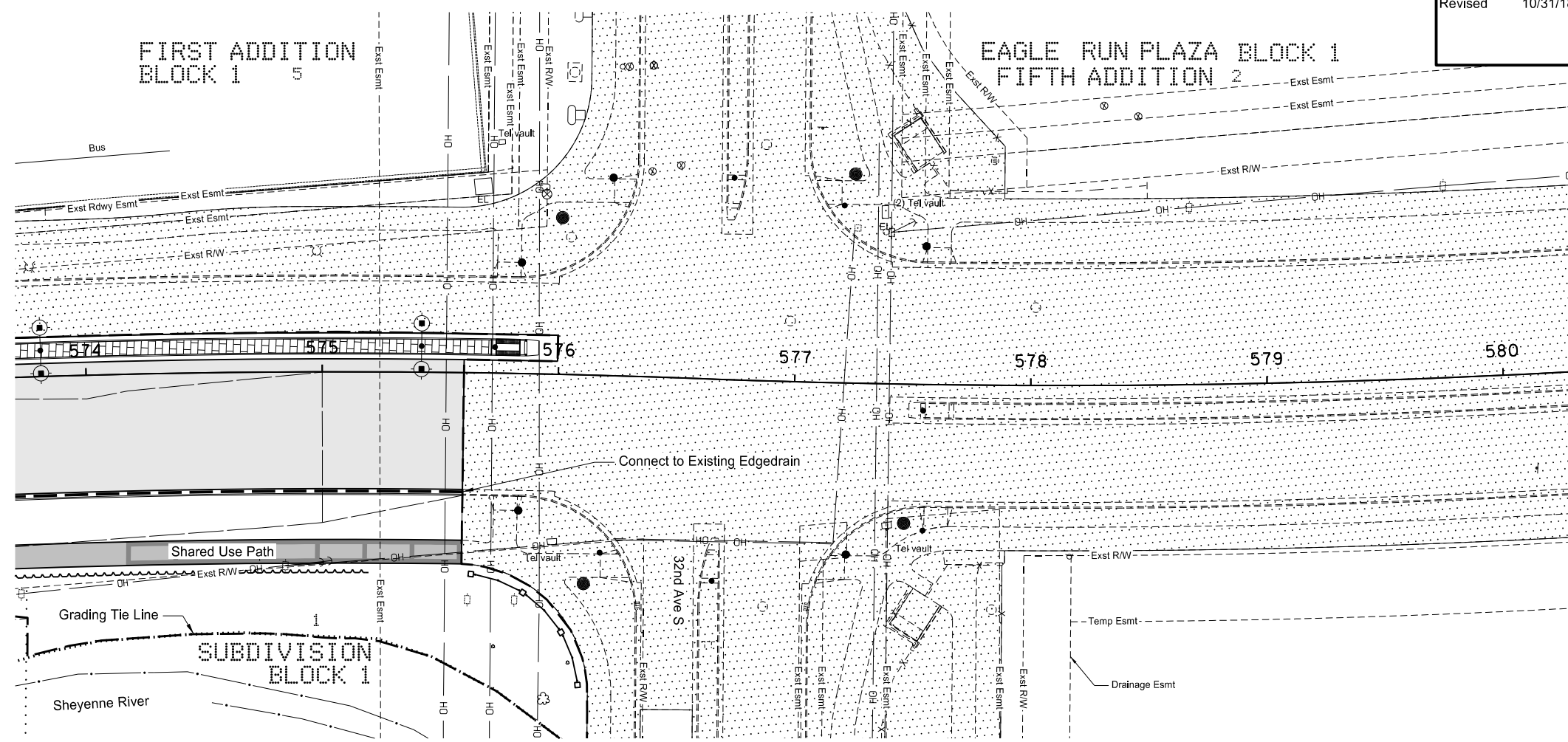
EAGLE RUN PLAZA BLOCK 1
FIFTH ADDITION 2

Revised 10/31/18

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SU-8-992(040)041	60	12

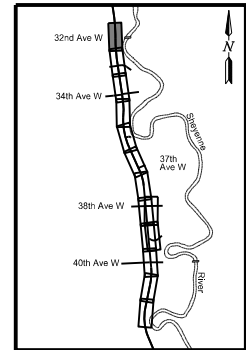
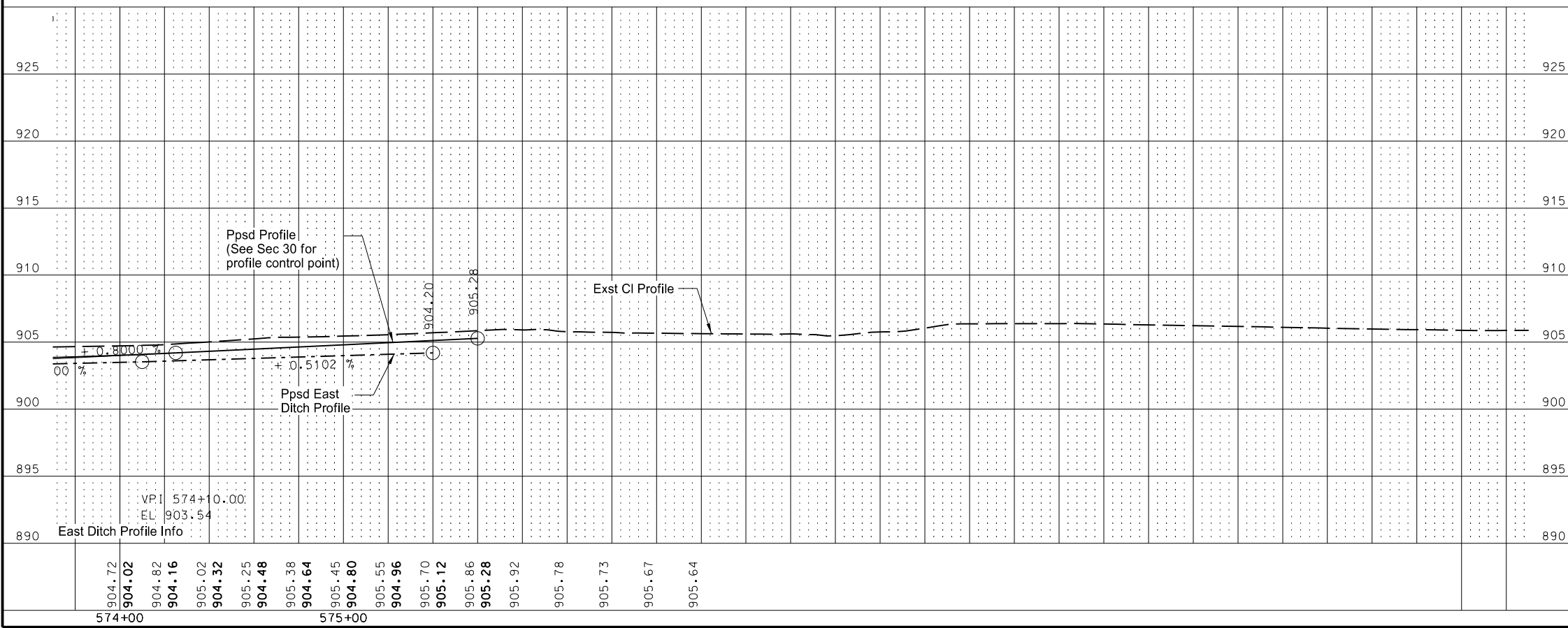
SPEC CODE BID ITEM QTY UNIT

714 9696 EDGEDRAIN NON PERMEABLE BASE
Sta. 574+00 to 580+00 158 LF



LEGEND

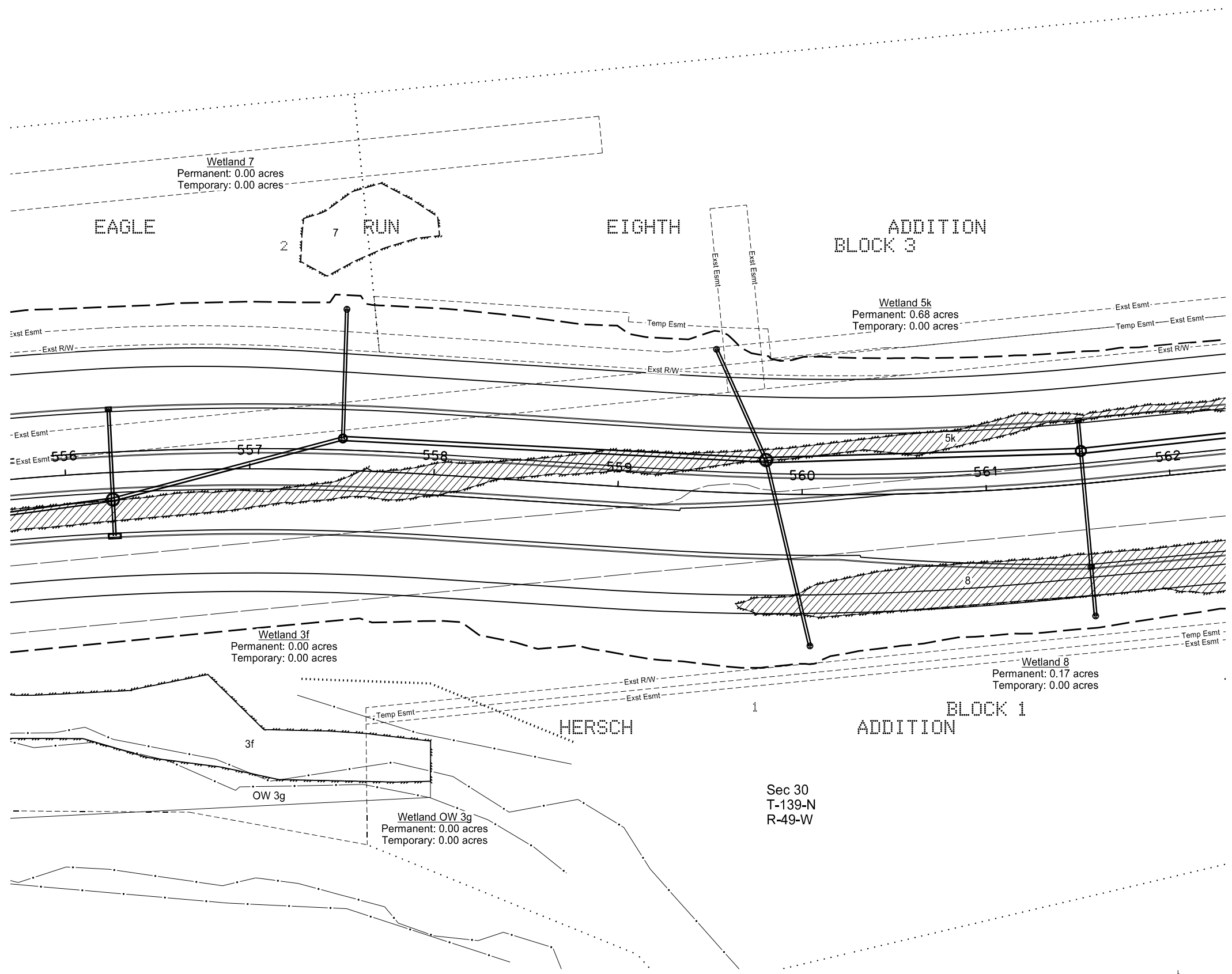
	10IN PCC PAVEMENT		COMMERCIAL GRADE HOT MIX ASPHALT
	PIGMENTED IMPRINTED CONCRETE		SUPERPAVE FAA 43
	AGGREGATE SURFACE COURSE CL 13		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
	EDGEDRAIN (SEE SECTION 20 FOR DETAILS)		SIDEWALK CONCRETE REIN (4IN)
	NDDOT PROJECT SU-8-992(039)040 (2018)		CONCRETE DRIVEWAY 6IN



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Sheyenne Street
Plan and Profile
Sta 574+00 to Sta 580+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	75	11



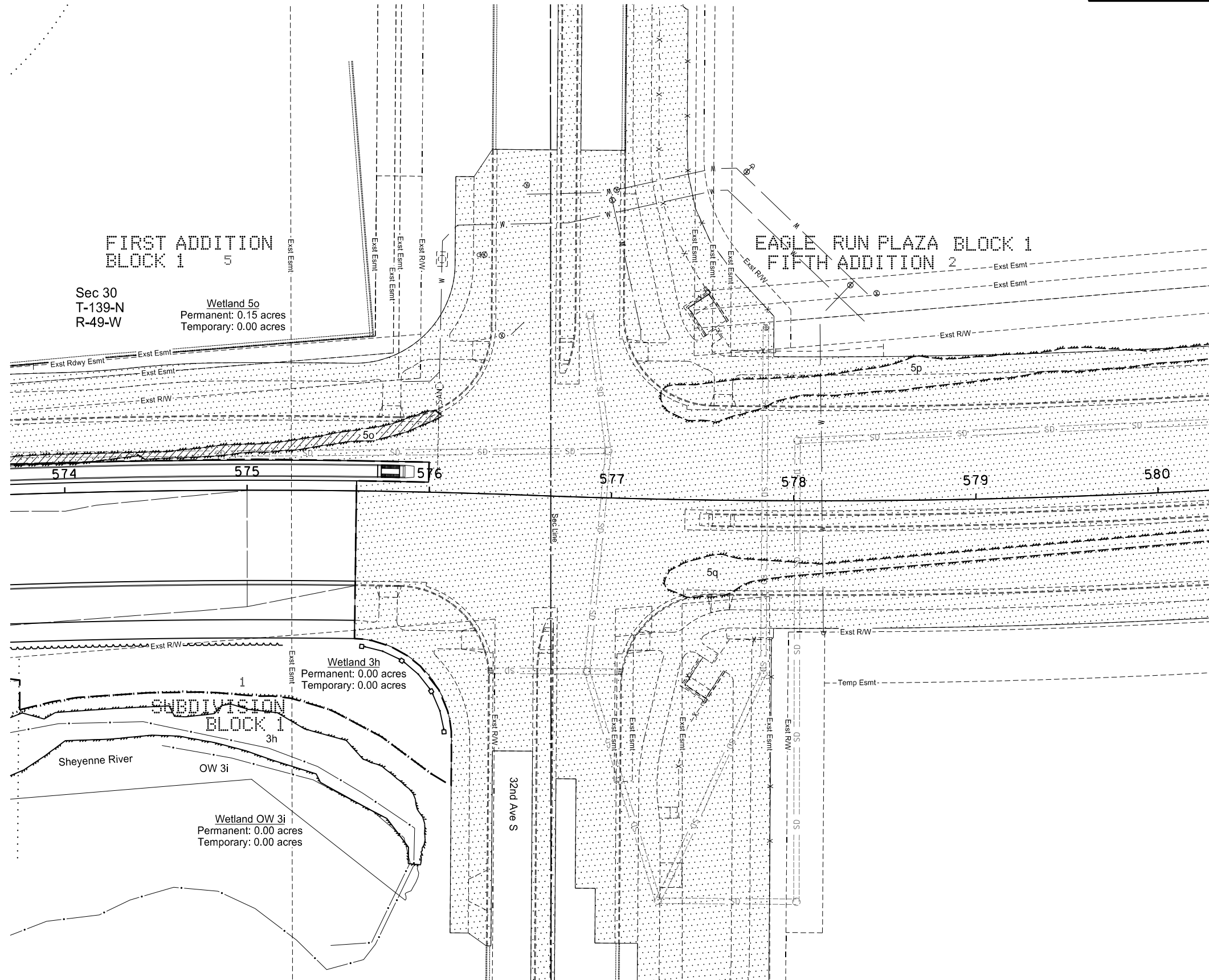
LEGEND

- Wetland Delineated Exst
- Grading Tie Line
- Wetland Impacts Temporary
- Wetland Impacts Permanent

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Sheyenne Street
 Wetland Impacts
 Sta 556+00 to Sta 562+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	75	14



FIRST ADDITION
BLOCK 1

Sec 30
T-139-N
R-49-W

Wetland 5p
Permanent: 0.15 acres
Temporary: 0.00 acres

EAGLE RUN PLAZA BLOCK 1
FIFTH ADDITION

SN DIVISION
BLOCK 1

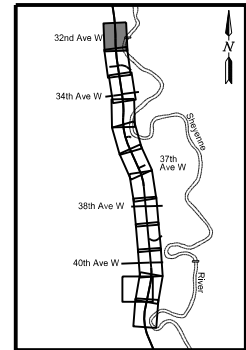
Sheyenne River

Wetland OW 3i
Permanent: 0.00 acres
Temporary: 0.00 acres

Wetland 3h
Permanent: 0.00 acres
Temporary: 0.00 acres

LEGEND

- Wetland Delineated Exst
- Grading Tie Line
- Wetland Impacts Temporary
- Wetland Impacts Permanent

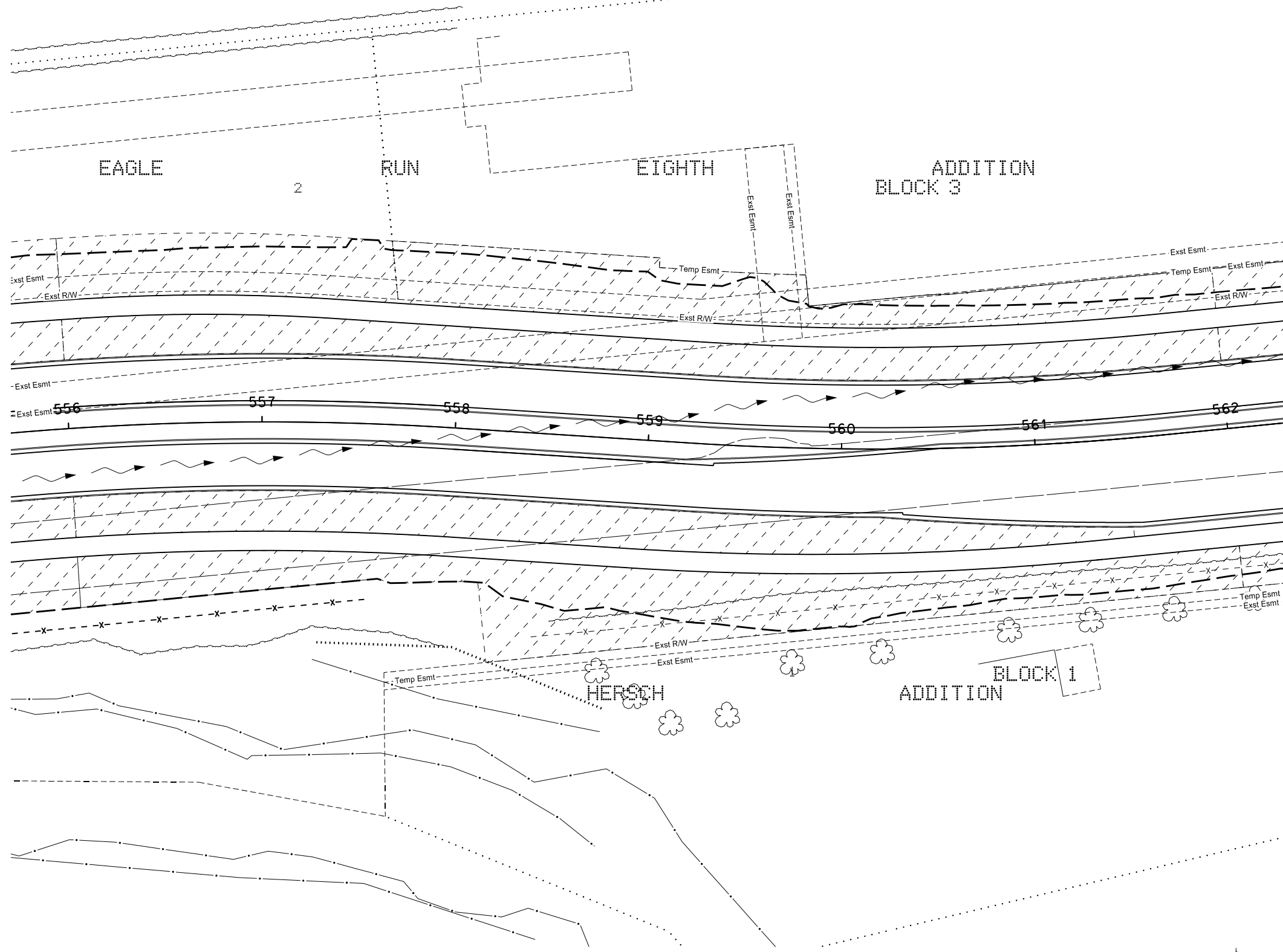


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Sheyenne Street
Wetland Impacts
Sta 574+00 to Sta 580+00 (PR17)

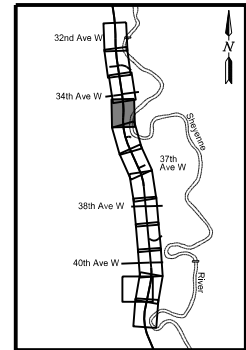
Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	76	9

SPEC CODE	BID ITEM	QTY	UNIT
253	0201 HYDRAULIC MULCH		
	556+00 to 562+00 Lt	1.21	ACRE
	556+00 to 562+00 Rt	1.20	ACRE
260	0200 SILT FENCE SUPPORTED		
	556+00 to 557+57 Rt	147	LF



LEGEND

	INLET PROTECTION - FIBER ROLL-12IN
	INLET PROTECTION - SPECIAL
	SILT FENCE SUPPORTED
	GRADING TIE LINE
	FLOW DIRECTION
	HYDRAULIC MULCH



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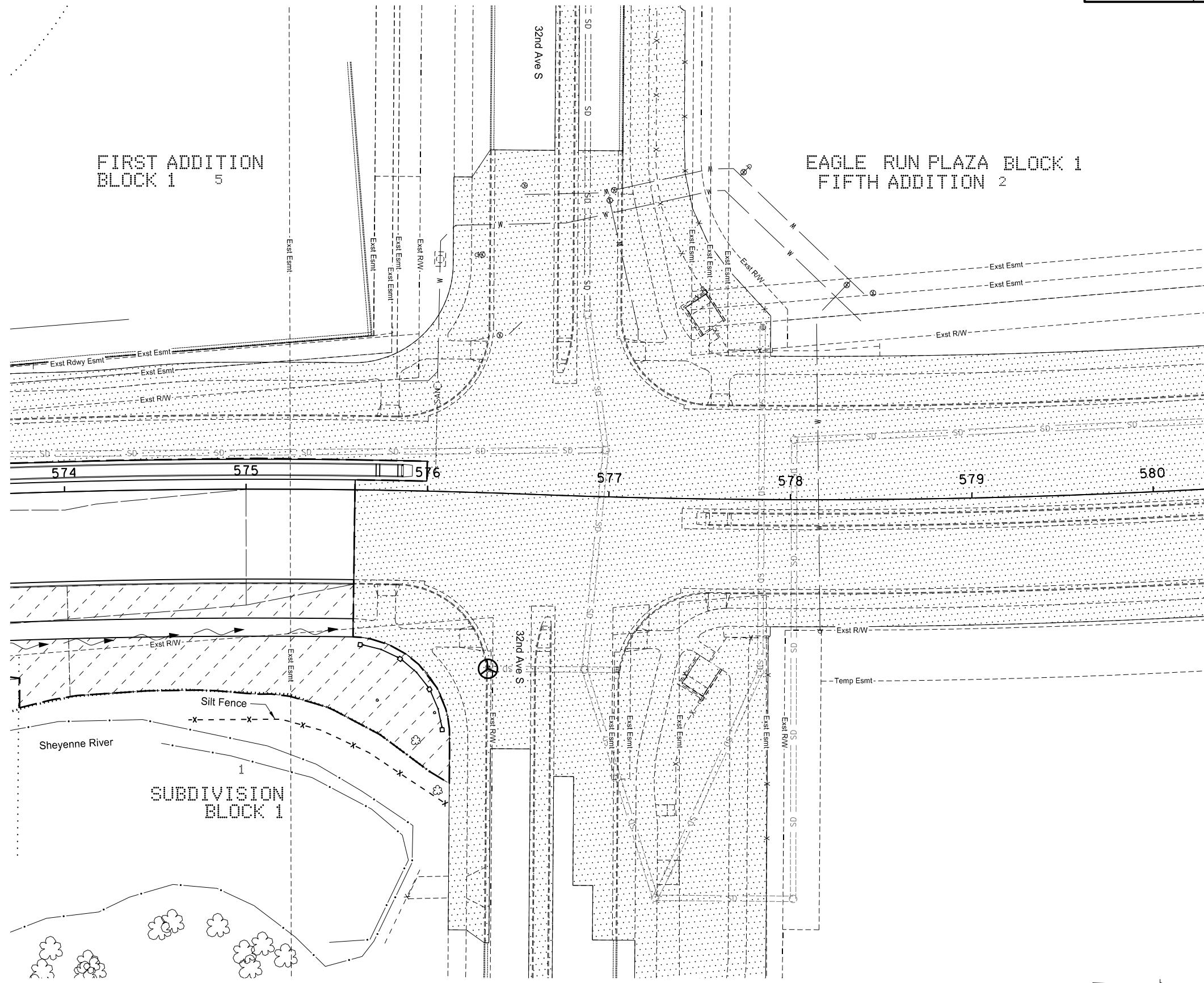
Sheyenne Street
 Temporary Erosion Control
 Sta 556+00 to Sta 562+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	76	12

SPEC CODE	BID ITEM	QTY	UNIT
253	0201 HYDRAULIC MULCH 574+00 to 576+15 Rt	0.49	ACRE
260	0200 SILT FENCE SUPPORTED 574+69 119' Rt to 576+15 173' Rt	155	LF
708	1540 INLET PROTECTION - SPECIAL 576+10 131.9' Rt	1	EA

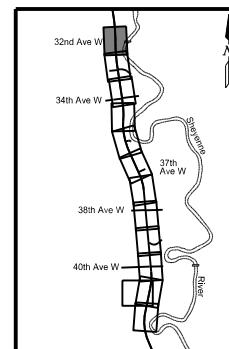
FIRST ADDITION
BLOCK 1 5

EAGLE RUN PLAZA BLOCK 1
FIFTH ADDITION 2



LEGEND

- INLET PROTECTION - FIBER ROLL-12IN
- INLET PROTECTION - SPECIAL
- SILT FENCE SUPPORTED
- GRADING TIE LINE
- FLOW DIRECTION
- HYDRAULIC MULCH



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Sheyenne Street
Temporary Erosion Control
Sta 574+00 to Sta 580+00 (PR17)

708	1540	INLET PROTECTION - SPECIAL	
		556+25 34.5' Lt	1 EA
		556+25 34.5' Rt	1 EA
		561+53 34.5' Lt	1 EA
		561+53 45.5' Rt	1 EA
708	1541	REMOVE INLET PROTECTION-SPECIAL	
		556+25 34.5' Lt	1 EA
		556+25 34.5' Rt	1 EA
		561+53 34.5' Lt	1 EA
		561+53 45.5' Rt	1 EA

SPEC CODE	BID ITEM	QTY	UNIT
251	0300 SEEDING CLASS III		
	556+00 to 562+00 Lt	0.61	ACRE
	556+00 to 562+00 Rt	0.61	ACRE
	556+00 to 559+63 Median	0.10	ACRE
253	0201 HYDRAULIC MULCH		
	556+00 to 562+00 Lt	0.24	ACRE
	556+00 to 562+00 Rt	0.24	ACRE
	556+00 to 559+63 Median	0.10	ACRE
253	0301 BONDED FIBER MATRIX		
	556+00 to 562+00 Lt	0.37	ACRE
	556+00 to 562+00 Rt	0.37	ACRE
260	0201 REMOVE SILT FENCE SUPPORTED		
	553+53 to 556+00 Rt	147	LF
708	1531 INLET PROTECTION - FIBER ROLL 12IN		
	557+50 87.4' Lt	1	EA
	559+50 77.4' Lt	1	EA
	560+05 82.2' Rt	1	EA
	561+53 71.3' Rt	1	EA
708	1533 REMOVAL INLET PROTECTION-FIBER ROLL 12IN		
	557+50 87.4' Lt	1	EA
	559+50 77.4' Lt	1	EA
	560+05 82.2' Rt	1	EA
	561+53 71.3' Rt	1	EA

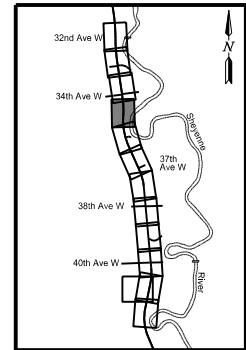


LEGEND

- RIPRAP
- 6" TOPSOIL, SEEDING, AND HYDRAULIC MULCH
- TOPSOIL, SEEDING, AND BONDED FIBER MATRIX
- INLET PROTECTION - FIBER ROLL-12IN
- INLET PROTECTION - SPECIAL
- SILT FENCE
- FLOW DIRECTION
- GRADING TIE LINE

DITCH CHECKS	
Ditch Grade	Spacing (Ft)
1%	85'
2%	40'
3%	30'
4%	20'
5%	15'

SLOPE PROTECTION	
Slope	Spacing (Ft)
3:1	45'
4:1 or Flatter	60'

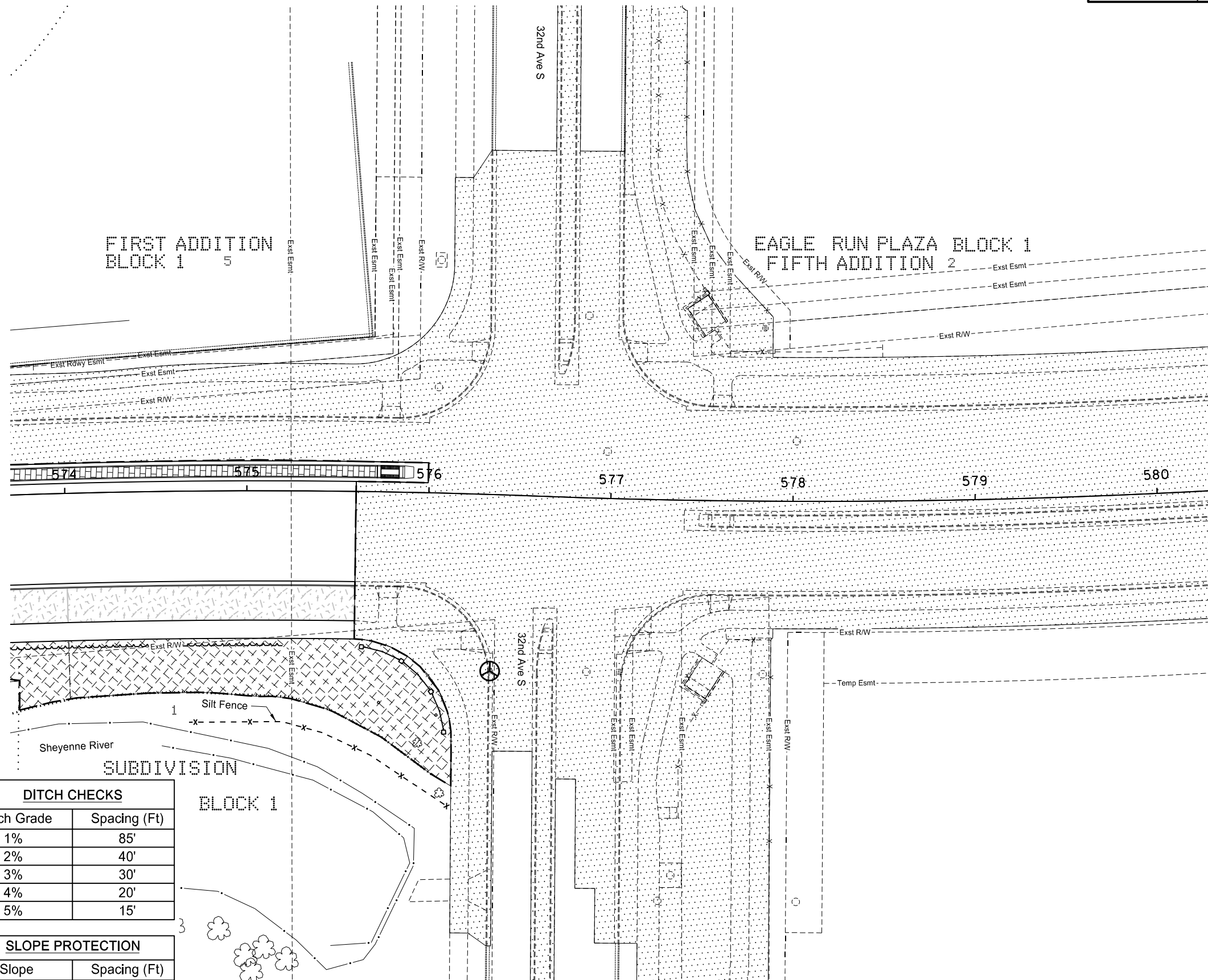


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Sheyenne Street
Permanent Erosion Control
Sta 556+00 to Sta 562+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	77	12

SPEC CODE	BID ITEM	QTY	UNIT
251	0300 SEEDING CLASS III 574+00 to 576+15 Rt	0.24	ACRE
253	0201 HYDRAULIC MULCH 574+00 to 576+15 Rt	0.07	ACRE
253	0301 BONDED FIBER MATRIX 574+00 to 576+15 Rt	0.17	ACRE
260	0201 REMOVE SILT FENCE SUPPORTED 574+69 119' Rt to 576+15 173' Rt	155	LF
708	1541 REMOVE INLET PROTECTION-SPECIAL 576+10 131.9' Rt	1	EA

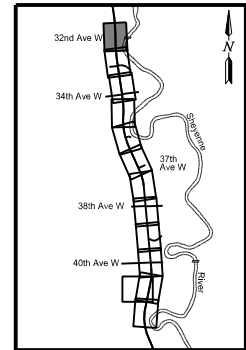


LEGEND

- RIPRAP
- 6" TOPSOIL, SEEDING, AND HYDRAULIC MULCH
- TOPSOIL, SEEDING, AND BONDED FIBER MATRIX
- INLET PROTECTION - FIBER ROLL-12IN
- INLET PROTECTION - SPECIAL
- SILT FENCE
- FLOW DIRECTION
- GRADING TIE LINE

DITCH CHECKS	
Ditch Grade	Spacing (Ft)
1%	85'
2%	40'
3%	30'
4%	20'
5%	15'

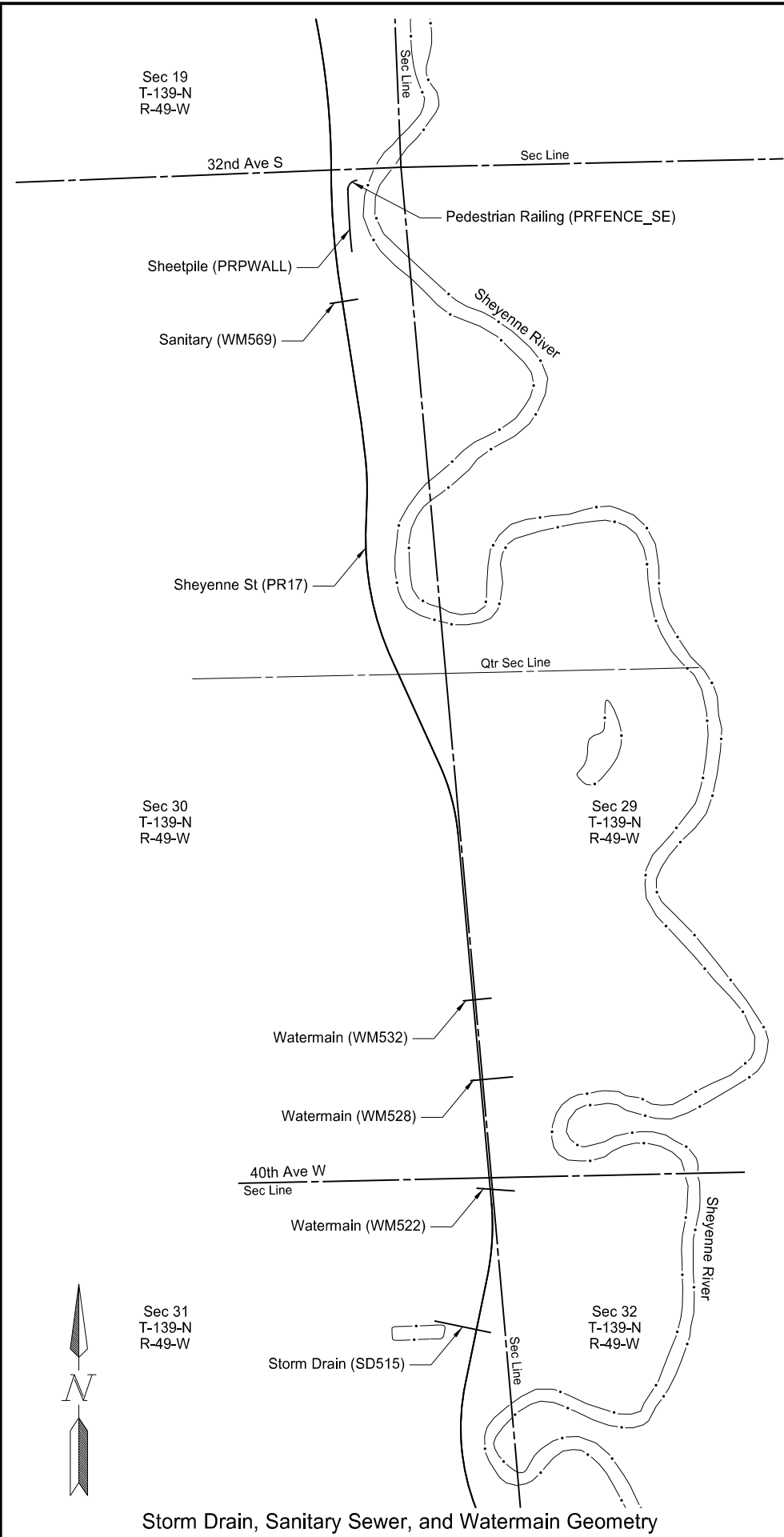
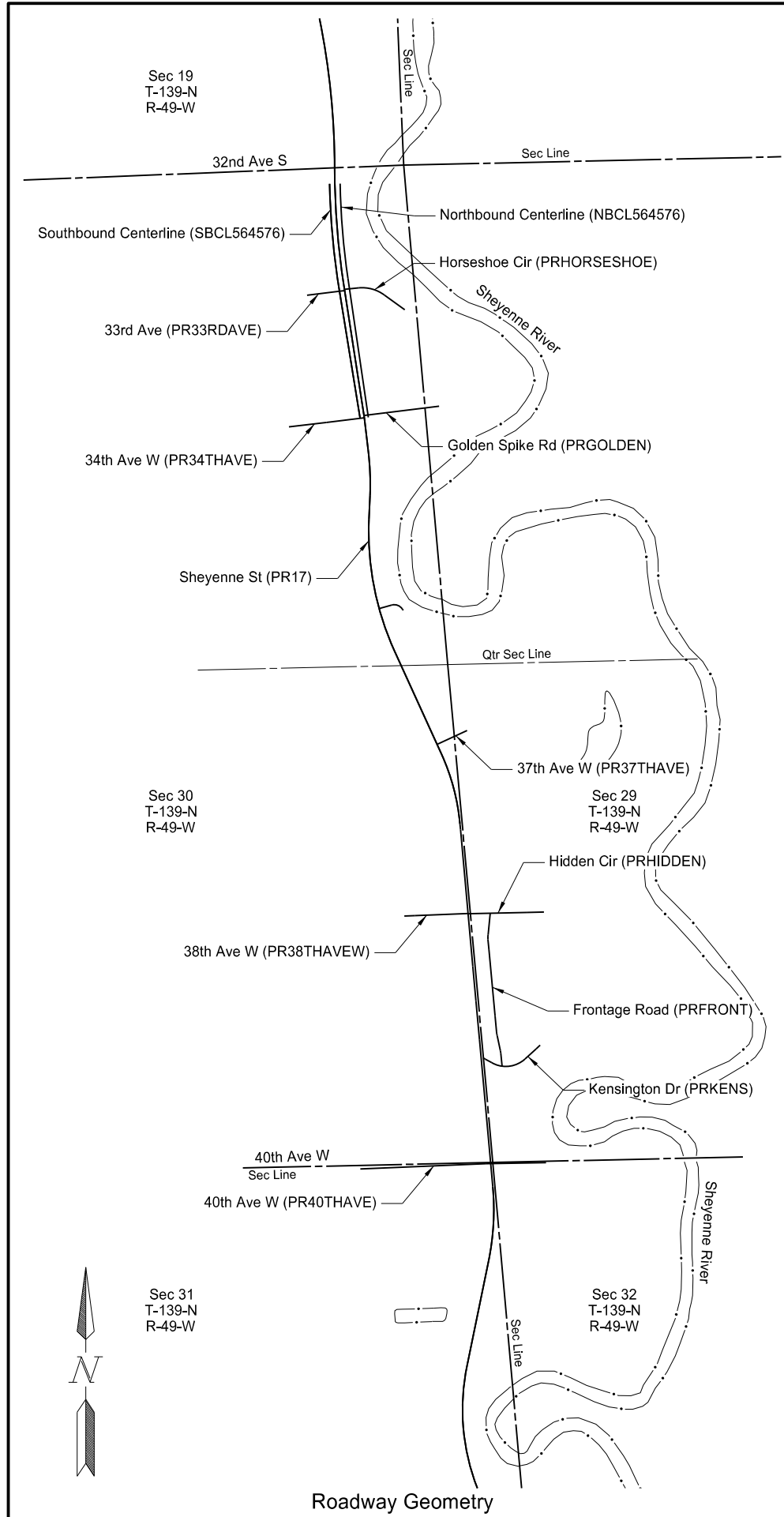
SLOPE PROTECTION	
Slope	Spacing (Ft)
3:1	45'
4:1 or Flatter	60'



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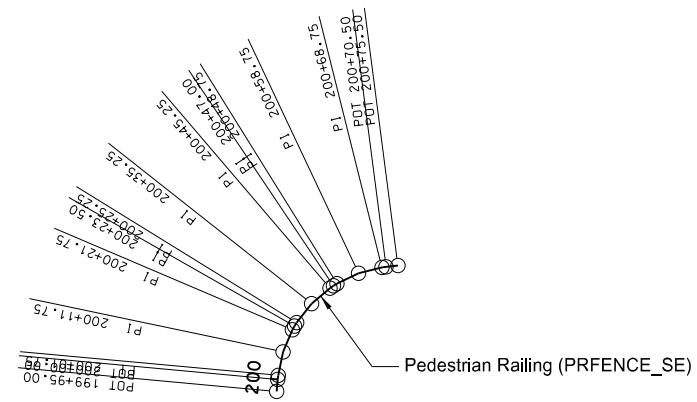
Sheyenne Street
Permanent Erosion Control
Sta 574+00 to Sta 580+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	81	2



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Sheyenne Street
Survey Coordinate and Curve Data
Alignment Overview

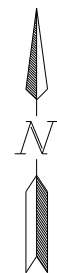


Chain PRFENCE SE contains:
826 827 828 829 830 831 832 833 834 835 836 837 838 839 840

Beginning chain PRFENCE SE description

Point 826	N	446,039.4378 E	2,868,147.8748	Sta	199+95.00
Course from 826 to 827 N 5° 14' 21.78" E Dist 5.0000					
Point 827	N	446,044.4169 E	2,868,148.3314	Sta	200+00.00
Course from 827 to 828 N 5° 14' 21.78" E Dist 1.7500					
Point 828	N	446,046.1596 E	2,868,148.4912	Sta	200+01.75
Course from 828 to 829 N 11° 50' 55.38" E Dist 10.0000					
Point 829	N	446,055.9465 E	2,868,150.5445	Sta	200+11.75
Course from 829 to 830 N 23° 06' 04.53" E Dist 10.0000					
Point 830	N	446,065.1447 E	2,868,154.4680	Sta	200+21.75
Course from 830 to 831 N 29° 42' 38.15" E Dist 1.7500					
Point 831	N	446,066.6646 E	2,868,155.3354	Sta	200+23.50
Course from 831 to 832 N 31° 40' 36.20" E Dist 1.7500					
Point 832	N	446,068.1539 E	2,868,156.2543	Sta	200+25.25
Course from 832 to 833 N 38° 17' 09.81" E Dist 10.0000					
Point 833	N	446,076.0032 E	2,868,162.4502	Sta	200+35.25

Course from 833 to 834 N 49° 32' 18.96" E Dist 10.0000					
Point 834	N	446,082.4925 E	2,868,170.0587	Sta	200+45.25
Course from 834 to 835 N 56° 08' 52.57" E Dist 1.7500					
Point 835	N	446,083.4674 E	2,868,171.5120	Sta	200+47.00
Course from 835 to 836 N 58° 06' 50.62" E Dist 1.7500					
Point 836	N	446,084.3918 E	2,868,172.9979	Sta	200+48.75
Course from 836 to 837 N 64° 43' 24.23" E Dist 10.0000					
Point 837	N	446,088.6616 E	2,868,182.0405	Sta	200+58.75
Course from 837 to 838 N 75° 58' 33.38" E Dist 10.0000					
Point 838	N	446,091.0849 E	2,868,191.7424	Sta	200+68.75
Course from 838 to 839 N 82° 35' 06.99" E Dist 1.7500					
Point 839	N	446,091.3108 E	2,868,193.4778	Sta	200+70.50
Course from 839 to 840 N 82° 35' 06.99" E Dist 5.0000					
Point 840	N	446,091.9560 E	2,868,198.4360	Sta	200+75.50
Ending chain PRFENCE SE description					

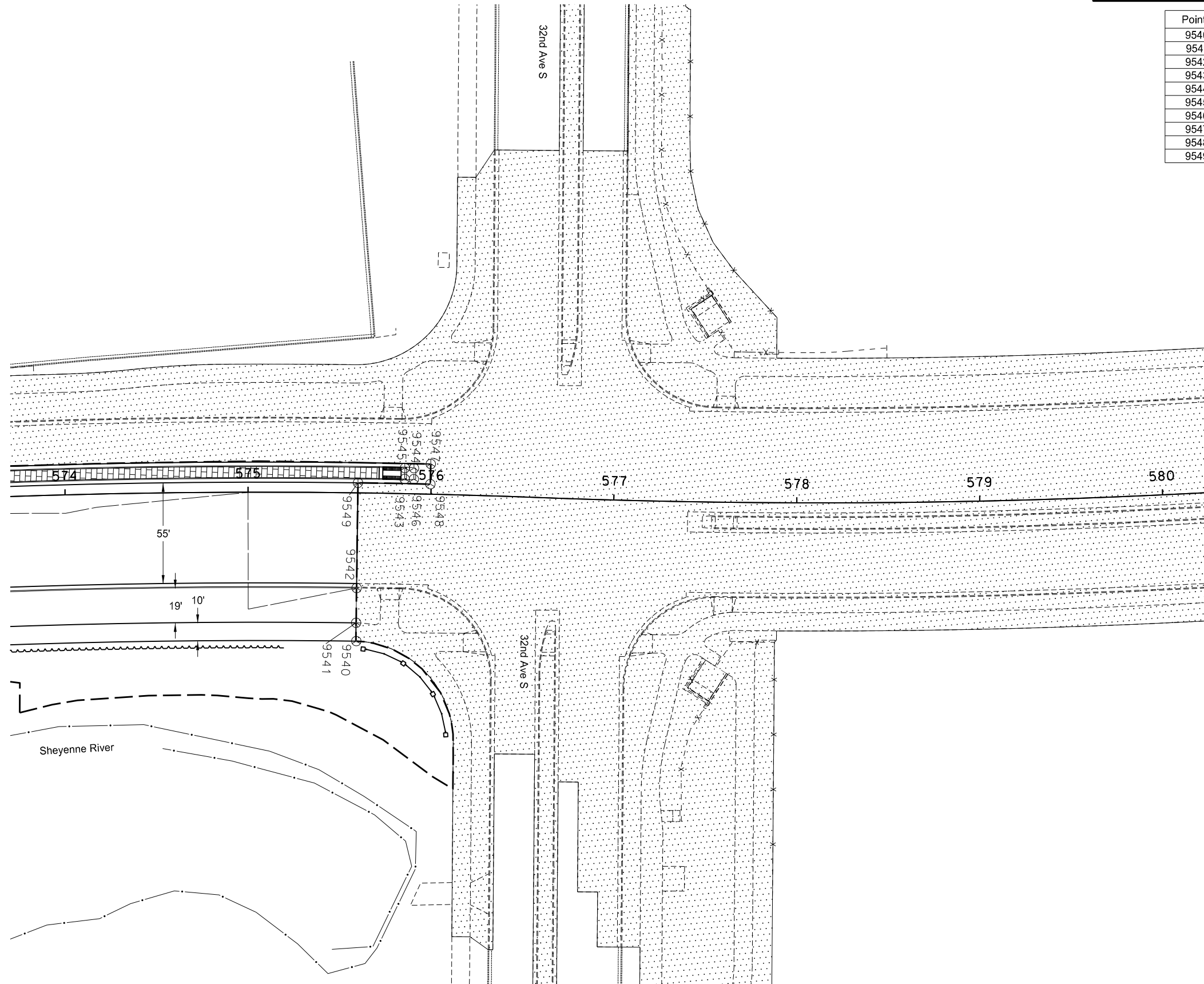


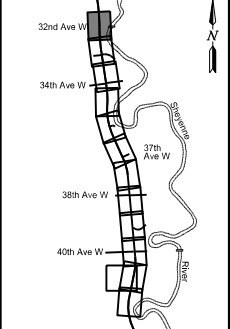
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Sheyenne Street
Survey Coordinate and Curve Data
(PRFENCE_SE)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	82	14

Point#	North(Y)	East(X)	Station	Offset	Description
9540	446040.4783	2868144.191	575+60.22	81.0145	EOSW
9541	446040.0031	2868134.194	575+60.00	71.0085	EOSW
9542	446039.5151	2868115.192	575+60.00	52	BOC
9543	446063.4773	2868054.638	575+85.46	-8	BOC
9544	446068.4849	2868054.544	575+90.46	-8	BOC
9545	446063.3534	2868048.639	575+85.45	-14	BOC
9546	446068.3526	2868048.546	575+90.43	-14	BOC
9547	446077.407	2868045.892	575+99.50	-16.5	EOP
9548	446077.5835	2868056.891	575+99.50	-5.5	EOP
9549	446038.0391	2868057.711	575+60.00	-5.5	EOP

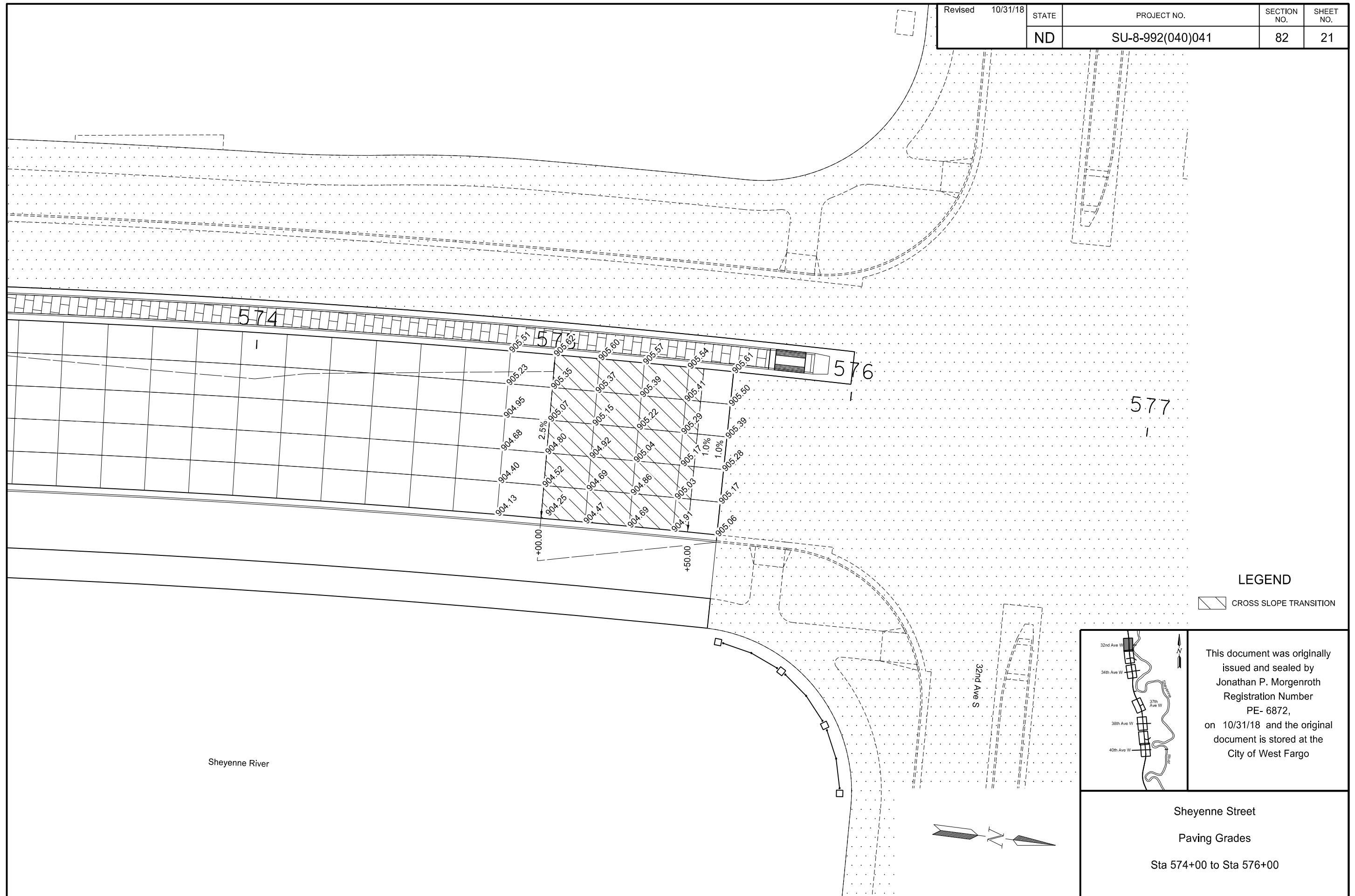




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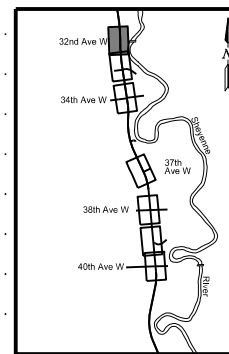
Sheyenne Street
Survey Data Layout
Sta 574+00 to Sta 580+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	82	21



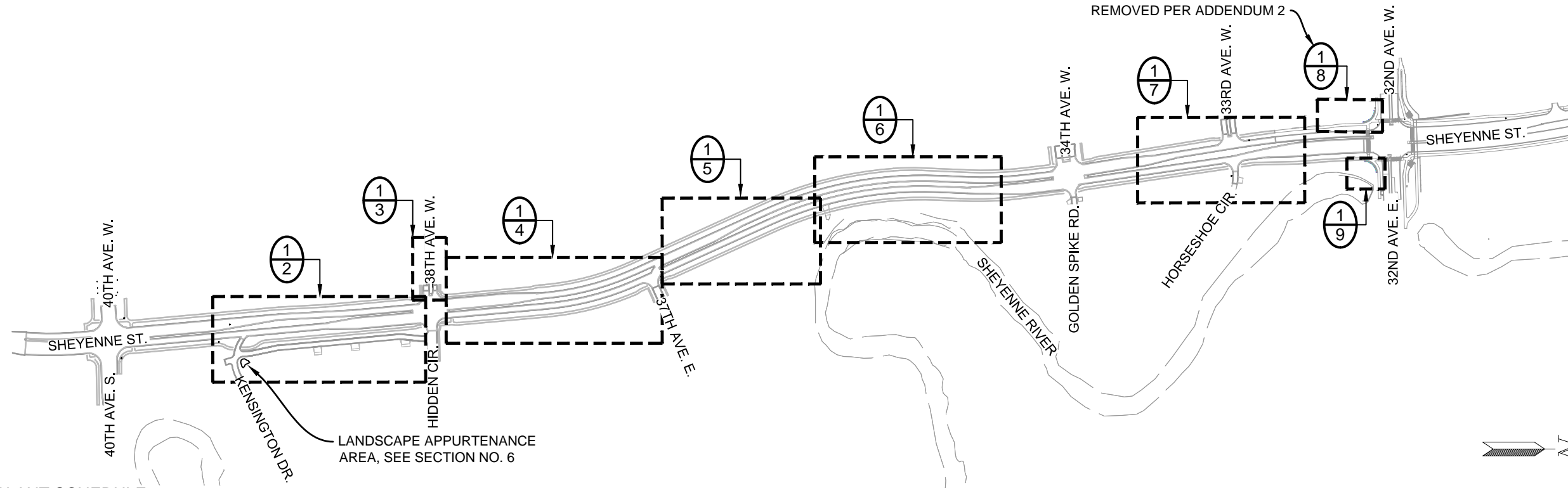
LEGEND

 CROSS SLOPE TRANSITION



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Sheyenne Street
Paving Grades
Sta 574+00 to Sta 576+00



OVERALL PLANT SCHEDULE

DECIDUOUS TREES		QTY	BOTANICAL NAME / COMMON NAME	TYPE	CAL	HEIGHT
AM		9	Acer ginnala `Embers` / Embers Amur Maple (Tree Form)	B&B or Cont.	1.5" Cal.	-
CH		22	Celtis occidentalis / Common Hackberry	B&B or Cont.	2" Cal.	12' -14'
HL		23	Gleditsia triacanthos inermis `Harve` TM / Northern Acclaim Thornless Honeylocust	B&B or Cont.	2" Cal.	12' -14'
KC		21	Gymnocladus dioica `Espresso` / Kentucky Coffeetree	B&B or Cont.	2" Cal.	12' -14'
GC		12	Malus x adstringens `Durleo` / First Editions® Gladiator™ Crabapple	B&B or Cont.	1.5" Cal.	-
PS		18	Malus x `Pink Spires` / Pink Spires Crab Apple	B&B or Cont.	1.5" Cal.	-
PF		8	Malus x `Prairifire` / Prairifire Crab Apple	B&B or Cont.	1.5" Cal.	-
PN		6	Prunus nigra `Princess Kay` / Princess Kay Plum	B&B or Cont.	1.5" Cal.	-
PG		33	Pyrus ussuriensis `Prairie Gem` TM / Prairie Gem Pear	B&B or Cont.	1.5" Cal.	-
IS		36	Syringa reticulata `Ivory Silk` / Ivory Silk Japanese Tree Lilac	B&B or Cont.	1.5" Cal.	7' -10'
HG		13	Tilia mongolica `Harvest Gold` / Harvest Gold Linden	B&B or Cont.	2" Cal.	8' -12'
DE		22	Ulmus davidiana `Discovery` / Discovery Elm	B&B or Cont.	2" Cal.	12' -14'

DECIDUOUS SHRUBS		QTY	BOTANICAL NAME / COMMON NAME	CONT
CP		12	Berberis thunbergii `Crimson Pygmy` / Crimson Pygmy Barberry	#2
MF		26	Forsythia x `Meadowlark` / Meadowlark Forsythia	#5
DN		26	Physocarpus opulifolius `Diablo` / Diablo Ninebark	#5
DS		10	Potentilla fruticosa `Fargo` / Dakota Sunspot® Potentilla	#2

PERENNIALS		QTY	BOTANICAL NAME / COMMON NAME	CONT	SPACING
CF		168	Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass	#1	36" o.c.
HR		154	Hemerocallis x `Happy Returns` / Happy Returns Daylily	#1	24" o.c.
HP		21	Hemerocallis x `Pardon Me` / Pardon Me Daylily	#1	24" o.c.
FG		25	Miscanthus sinensis `Purpurescens` / Flame Grass	#1	42" o.c.
RS		33	Perovskia atriplicifolia / Russian Sage	#1	48" o.c.
BH		231	Schizachyrium scoparium `Blue Heaven` / Blue Heaven Bluestem	#1	36" o.c.

- NOTES:**
- IF DISCREPANCIES ARISE BETWEEN THE QUANTITIES OF PLANT MATERIAL INDICATED ON THE PLANT SCHEDULE AND SYMBOLS ON PLAN SHEETS, CONTRACTOR WILL BE REQUIRED TO PROVIDE THE QUANTITY SHOWN BY SYMBOLS ON PLAN SHEETS.
 - AT TIME OF PLAN PREPARATION, FRANCHISE UTILITY (CENTURY LINK CABLE, XCEL ENERGY, MID-CONTINENT CABLE, GAS LINE, ETC.) LINE RELOCATION AND CONSOLIDATION INTO ONE TRENCH IS BEING CONSIDERED AND COORDINATED BY OTHERS. THE RESULT OF POTENTIAL RELOCATION OF UTILITIES WILL IMPACT THE FINAL LOCATION, QUANTITY, AND SCOPE OF WORK AS SHOWN ON THE PLANS. CONTRACTOR SHALL BE ADVISED THAT IF UNDERGROUND UTILITIES ARE NOT RELOCATED AND CONSOLIDATED FROM THE EAST SIDE OF SHEYENNE STREET TO THE WEST SIDE OF THE STREET, THE CITY RESERVES THE RIGHT TO OMIT ANY PLANTS IN CONFLICT WITH UTILITY LOCATION(S) FROM THE CONTRACT AT THE BID UNIT PRICE FOR EACH PLANT OMITTED, WITHOUT ADJUSTMENT TO ANY OTHER BID PRICE. THE CONTRACTOR MUST CONFIRM THE RELOCATION OF UTILITIES OUT OF THE WORK ZONE PRIOR TO ORDERING OF PLANT MATERIAL.

NOTE:
 1. PENDING UTILITY CONSOLIDATION, SEE NOTE #2 BELOW. VERIFY FINAL TREE QUANTITIES PRIOR TO ORDERING PLANT MATERIAL.

LEGEND

SYMBOL	DESCRIPTION
(1/1)	DETAIL #
(1/1)	SHEET #, SECTION 85

CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES (EXISTING, PLANNED, AND NEWLY INSTALLED) PRIOR TO EXCAVATION.



This document was originally issued and sealed by Alex Bossert, Landscape Architect, Registration Number 135 on 10/31/2018 and the original document is stored at the City of West Fargo.

Sheyenne Street
 Landscape Plan
 Sheet Index & Overall Plant Schedule

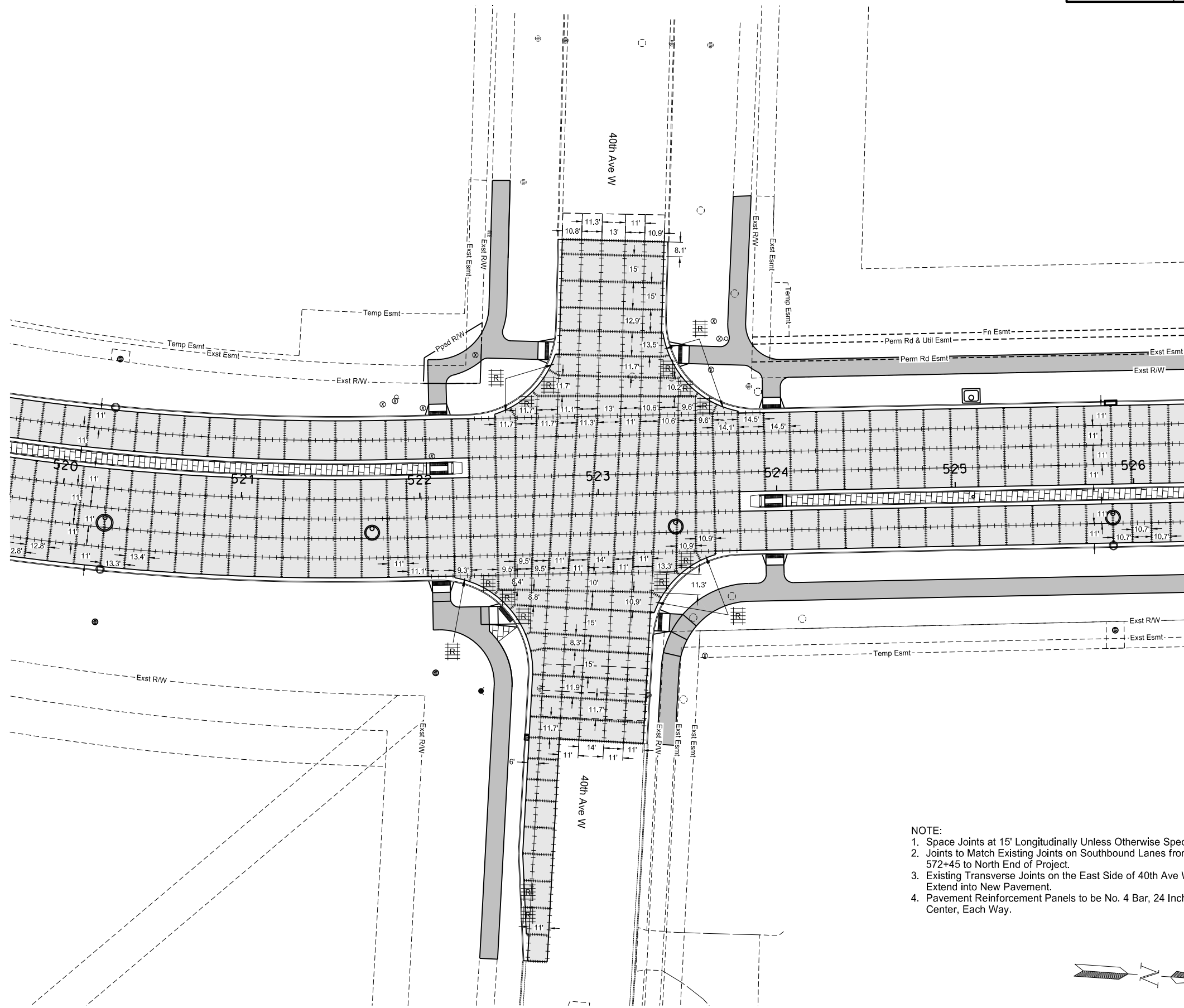
Revised 10/31/18	STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
	ND	SU-8-992(040)041	21569	85	8

REMOVED PER ADDENDUM 2

Sheyenne Street
Landscape Plan
32ND AVE. W.

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	90	3

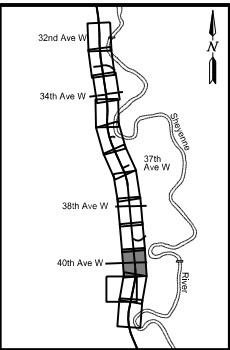
SPEC CODE	BID ITEM	QTY	UNIT
302 121	AGGREGATE BASE COURSE CL 5 Sta. 520+00 to 526+00 Sidewalk	2,157	CY 152 CY
550 310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED Sta. 520+00 to 526+00	6,758	SY
748 190	CURB & GUTTER-TYPE I 30IN Sta. 520+00 to 526+00	2,344	LF
709 151	GEOSYNTHETIC MATERIAL TYPE R1 Sta. 520+00 to 526+00	8,390	SY
750 30	PIGMENTED IMPRINTED CONCRETE Sta. 520+00 to 526+00	273	SY
750 120	SIDEWALK CONCRETE 5IN REINF Sta. 520+00 to 526+00	1,326	SY
750 210	CONCRETE MEDIAN NOSE PAVING Sta. 520+00 to 526+00	27	SY
750 2115	DETECTABLE WARNING PANELS Sta. 520+00 to 526+00	240	SF



LEGEND

	UNTIED JOINT		SUPERPAVE FAA 43
	DOWELED JOINT		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
	TIED JOINT W/ HOT POUR SEAL		SIDEWALK CONCRETE REINF (4IN)
	PAVEMENT REINFORCEMENT		CONCRETE DRIVEWAY 6IN
	10IN PCC PAVEMENT		PIGMENTED IMPRINTED CONCRETE
	COMMERCIAL GRADE HOT MIX ASPHALT		AGGREGATE SURFACE COURSE CL 13

- NOTE:**
- Space Joints at 15' Longitudinally Unless Otherwise Specified.
 - Joints to Match Existing Joints on Southbound Lanes from Station 572+45 to North End of Project.
 - Existing Transverse Joints on the East Side of 40th Ave W are to Extend into New Pavement.
 - Pavement Reinforcement Panels to be No. 4 Bar, 24 Inch On Center, Each Way.

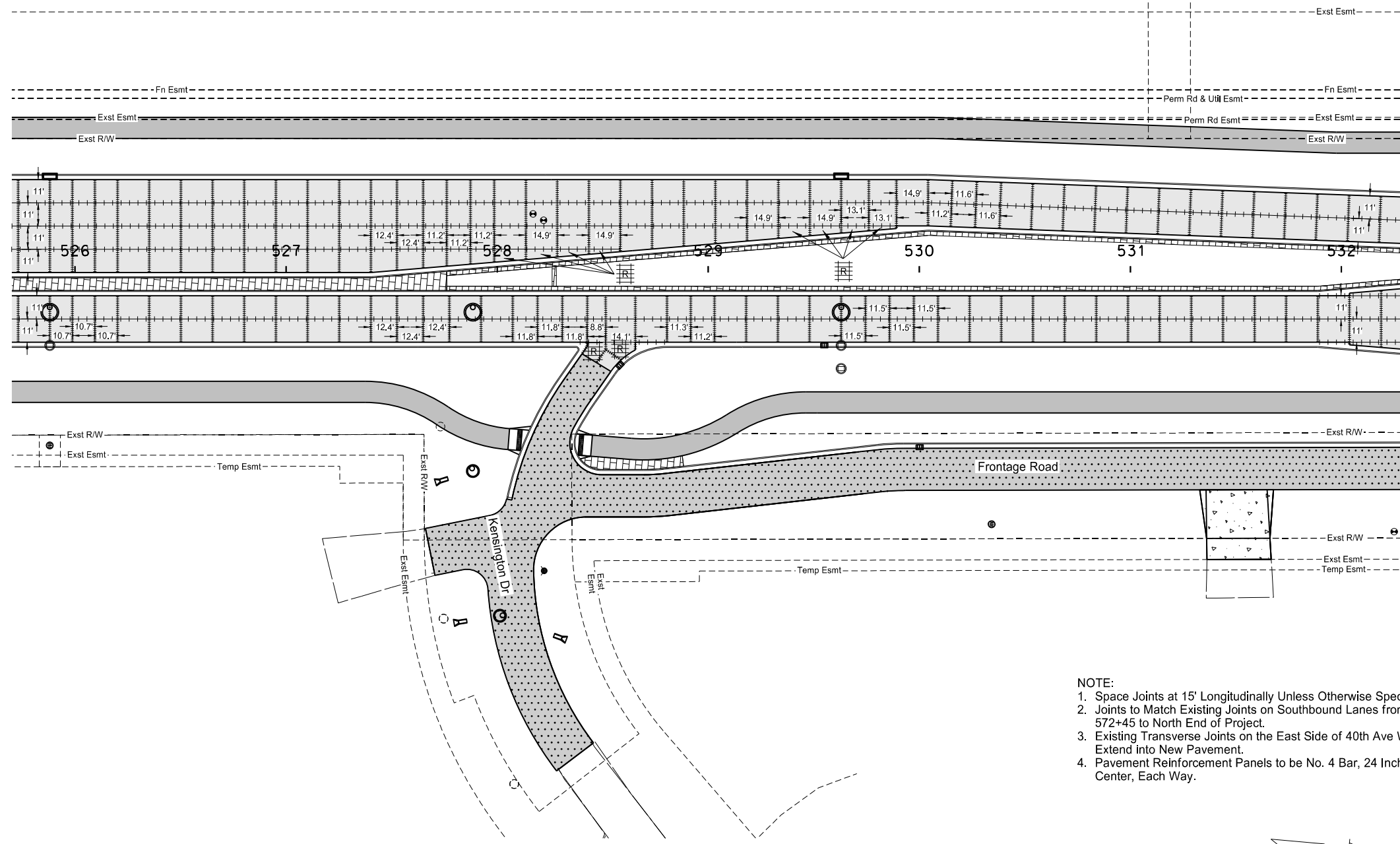


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Sheyenne Street
 Paving Layouts
 Sta 520+00 to Sta 526+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	90	4

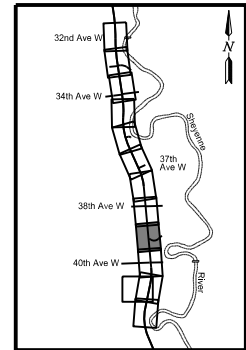
SPEC CODE	BID ITEM	QTY	UNIT
302 121	AGGREGATE BASE COURSE CL 5 Sta. 526+00 to 532+00 Sidewalk Driveway	1,902 147 13	CY CY CY
430 500	COMMERCIAL GRADE HOT MIX ASPHALT Kensington / Frontage Road	439	TON
550 310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED Sta. 526+00 to 532+00	3,628	SY
709 151	GEOSYNTHETIC MATERIAL TYPE R1 Sta. 526+00 to 532+00	7,449	SY
748 190	CURB & GUTTER-TYPE I 30IN Sta. 526+00 to 532+00	2,879	LF
750 30	PIGMENTED IMPRINTED CONCRETE Sta. 526+00 to 532+00	340	SY
750 120	SIDEWALK CONCRETE 5IN REINF Sta. 526+00 to 532+00	1,319	SY
750 1016	DRIVEWAY CONCRETE 6IN REINFORCED Sta. 526+00 to 532+00	117	SY
750 2115	DETECTABLE WARNING PANELS Sta. 526+00 to 532+00	40	SF



LEGEND

—	UNTIED JOINT		SUPERPAVE FAA 43
—+—+—+—	DOWELED JOINT		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
—+—+—+—	TIED JOINT W/ HOT POUR SEAL		SIDEWALK CONCRETE REINF (4IN)
	PAVEMENT REINFORCEMENT		CONCRETE DRIVEWAY 6IN
	10IN PCC PAVEMENT		PIGMENTED IMPRINTED CONCRETE
	COMMERCIAL GRADE HOT MIX ASPHALT		AGGREGATE SURFACE COURSE CL 13

- NOTE:**
1. Space Joints at 15' Longitudinally Unless Otherwise Specified.
 2. Joints to Match Existing Joints on Southbound Lanes from Station 572+45 to North End of Project.
 3. Existing Transverse Joints on the East Side of 40th Ave W are to Extend into New Pavement.
 4. Pavement Reinforcement Panels to be No. 4 Bar, 24 Inch On Center, Each Way.



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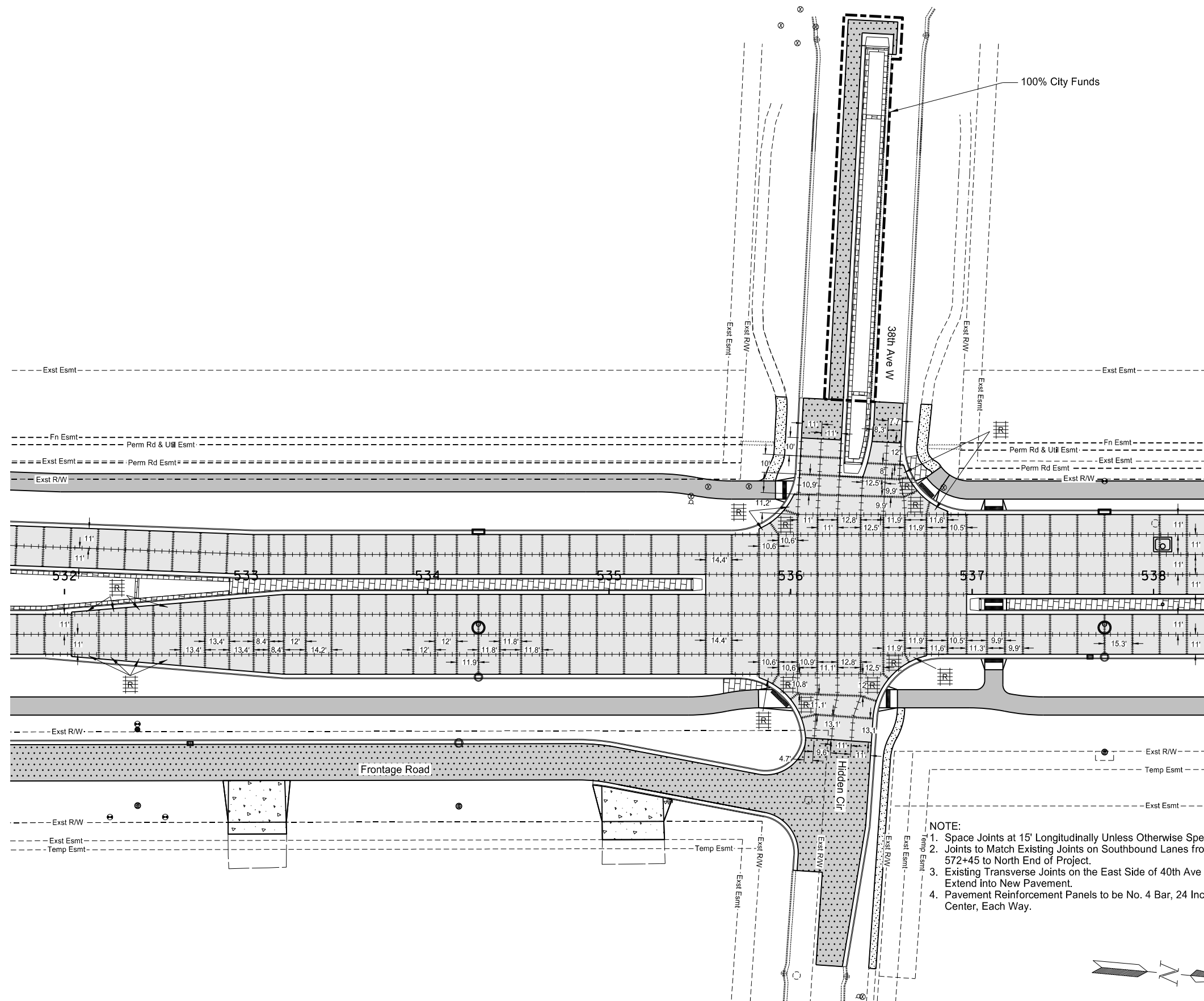
Sheyenne Street
 Paving Layouts
 Sta 526+00 to Sta 532+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	90	5

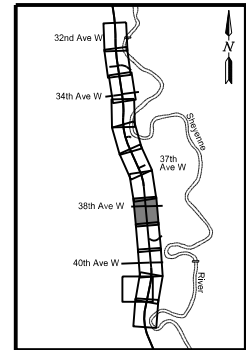
SPEC CODE	BID ITEM	QTY	UNIT
302 121	AGGREGATE BASE COURSE CL 5 Sta. 532+00 to 538+00 Sidewalk Driveway	2,314 158 24	CY CY CY
430 500	COMMERCIAL GRADE HOT MIX ASPHALT Hidden Circle / Frontage Road	505	TON
550 310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED Sta. 532+00 to 538+00	4,985	SY
709 151	GEOSYNTHETIC MATERIAL TYPE R1 Sta. 532+00 to 538+00	9,050	SY
748 190	CURB & GUTTER-TYPE I 30IN Sta. 532+00 to 538+00	3,076	LF
750 30	PIGMENTED IMPRINTED CONCRETE Sta. 532+00 to 538+00	403	SY
750 101	SIDEWALK CONCRETE REINF Sta. 532+00 to 538+00	123	SY
750 120	SIDEWALK CONCRETE 5IN REINF Sta. 532+00 to 538+00	1,244	SY
750 210	CONCRETE MEDIAN NOSE PAVING Sta. 532+00 to 538+00	47	SY
750 1016	DRIVEWAY CONCRETE 6IN REINFORCED Sta. 532+00 to 538+00	220	SY
750 2115	DETECTABLE WARNING PANELS Sta. 532+00 to 538+00	160	SF

LEGEND

	UNTIED JOINT		SUPERPAVE FAA 43
	DOWELED JOINT		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
	TIED JOINT W/ HOT POUR SEAL		SIDEWALK CONCRETE REINF (4IN)
	PAVEMENT REINFORCEMENT		CONCRETE DRIVEWAY 6IN
	10IN PCC PAVEMENT		PIGMENTED IMPRINTED CONCRETE
	COMMERCIAL GRADE HOT MIX ASPHALT		AGGREGATE SURFACE COURSE CL 13



- NOTE:**
1. Space Joints at 15' Longitudinally Unless Otherwise Specified.
 2. Joints to Match Existing Joints on Southbound Lanes from Station 572+45 to North End of Project.
 3. Existing Transverse Joints on the East Side of 40th Ave W are to Extend into New Pavement.
 4. Pavement Reinforcement Panels to be No. 4 Bar, 24 Inch On Center, Each Way.

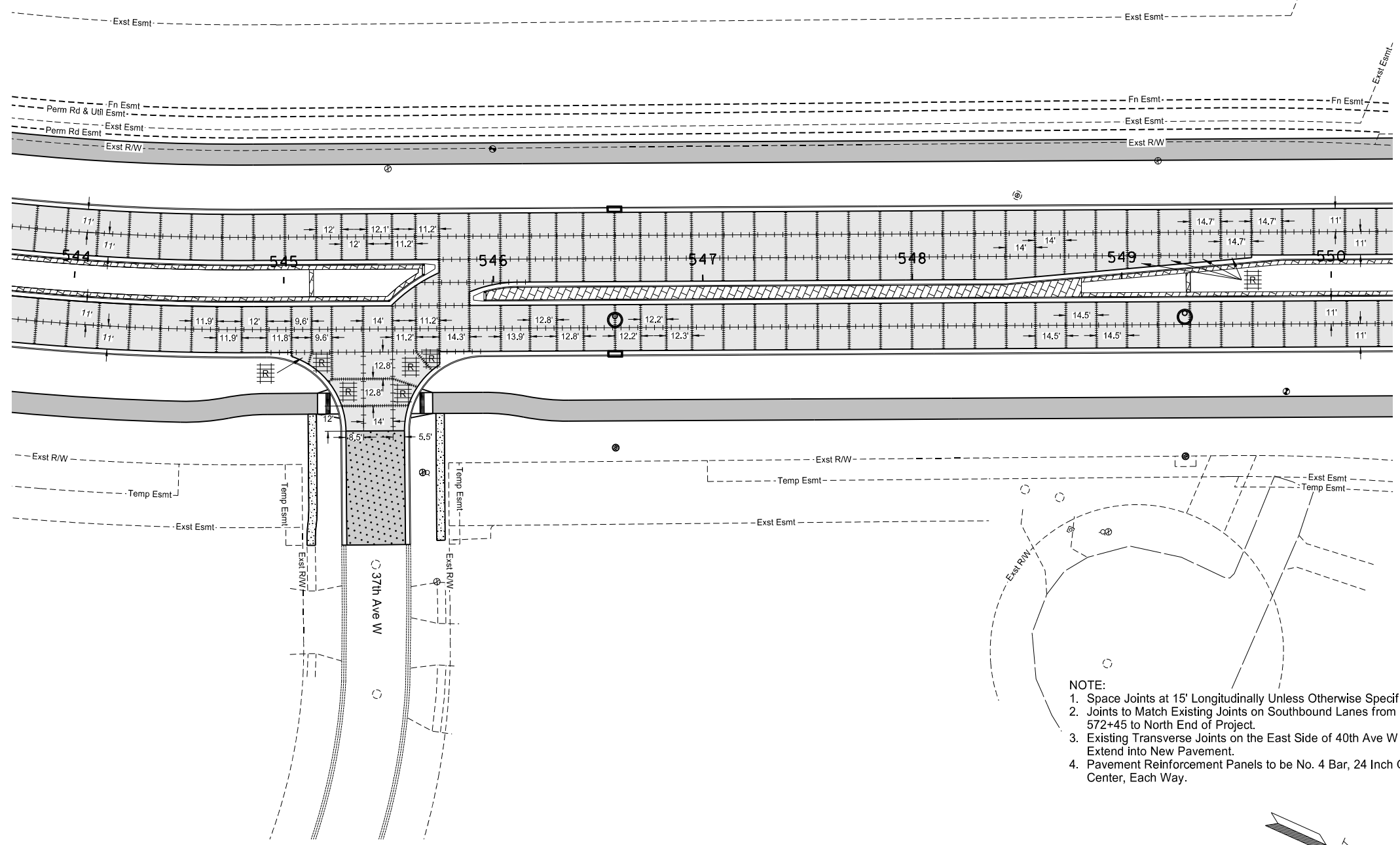


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Sheyenne Street
 Paving Layouts
 Sta 532+00 to Sta 538+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	90	7

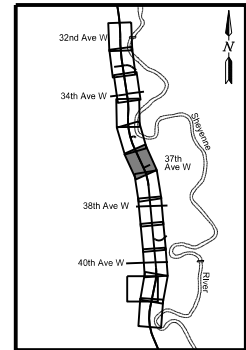
SPEC CODE	BID ITEM	QTY	UNIT
302 121	AGGREGATE BASE COURSE CL 5 Sta. 544+00 to 550+00 Sidewalk	1,447	CY CY
430 500	COMMERCIAL GRADE HOT MIX ASPHALT 37th Avenue W	52	TON
550 310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED Sta. 544+00 to 550+00	3,633	SY
709 151	GEOSYNTHETIC MATERIAL TYPE R1 Sta. 544+00 to 550+00	5,548	SY
748 190	CURB & GUTTER-TYPE I 30IN Sta. 544+00 to 550+00	2,461	LF
750 30	PIGMENTED IMPRINTED CONCRETE Sta. 544+00 to 550+00	327	SY
750 101	SIDEWALK CONCRETE REINF Sta. 544+00 to 550+00	55	SY
750 120	SIDEWALK CONCRETE 5IN REINF Sta. 544+00 to 550+00	1,295	SY
750 210	CONCRETE MEDIAN NOSE PAVING Sta. 544+00 to 550+00	14	SY
750 2115	DETECTABLE WARNING PANELS Sta. 544+00 to 550+00	40	SF



LEGEND

—	UNTIED JOINT		SUPERPAVE FAA 43
—	DOWELED JOINT		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
—	TIED JOINT W/ HOT POUR SEAL		SIDEWALK CONCRETE REINF (4IN)
	PAVEMENT REINFORCEMENT		CONCRETE DRIVEWAY 6IN
	10IN PCC PAVEMENT		PIGMENTED IMPRINTED CONCRETE
	COMMERCIAL GRADE HOT MIX ASPHALT		AGGREGATE SURFACE COURSE CL 13

- NOTE:**
1. Space Joints at 15' Longitudinally Unless Otherwise Specified.
 2. Joints to Match Existing Joints on Southbound Lanes from Station 572+45 to North End of Project.
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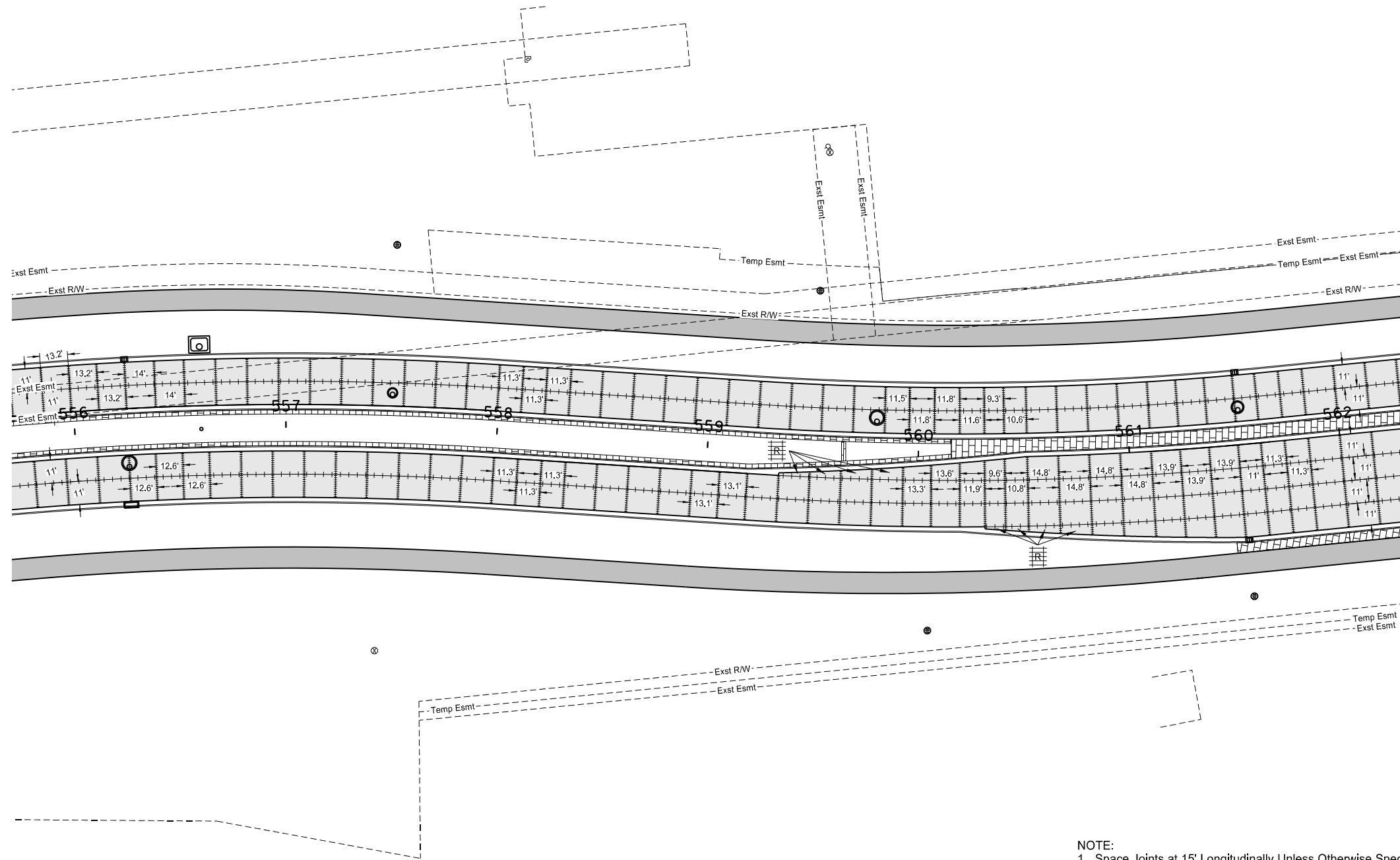


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Sheyenne Street
 Paving Layouts
 Sta 544+00 to Sta 550+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	90	9

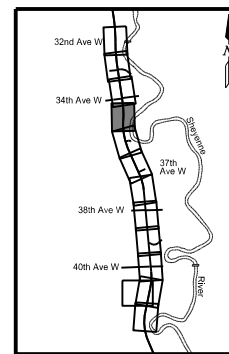
SPEC CODE	BID ITEM	QTY	UNIT
302 121	AGGREGATE BASE COURSE CL 5 Sta. 556+00 to 562+00 Sidewalk	1,352	CY 148 CY
550 310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED Sta. 556+00 to 562+00	3,339	SY
709 151	GEOSYNTHETIC MATERIAL TYPE R1 Sta. 556+00 to 562+00	5,133	SY
748 190	CURB & GUTTER-TYPE I 30IN Sta. 556+00 to 562+00	2,400	LF
750 30	PIGMENTED IMPRINTED CONCRETE Sta. 556+00 to 562+00	342	SY
750 120	SIDEWALK CONCRETE 5IN REINF Sta. 556+00 to 562+00	1,334	SY



LEGEND

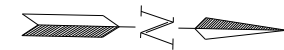
	UNTIED JOINT		SUPERPAVE FAA 43
	DOWELED JOINT		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
	TIED JOINT W/ HOT POUR SEAL		SIDEWALK CONCRETE REINF (4IN)
	PAVEMENT REINFORCEMENT		CONCRETE DRIVEWAY 6IN
	10IN PCC PAVEMENT		PIGMENTED IMPRINTED CONCRETE
	COMMERCIAL GRADE HOT MIX ASPHALT		AGGREGATE SURFACE COURSE CL 13

- NOTE:**
1. Space Joints at 15' Longitudinally Unless Otherwise Specified.
 2. Joints to Match Existing Joints on Southbound Lanes from Station 572+45 to North End of Project.
 3. Existing Transverse Joints on the East Side of 40th Ave W are to Extend into New Pavement.
 4. Pavement Reinforcement Panels to be No. 4 Bar, 24 Inch On Center, Each Way.



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Sheyenne Street
 Paving Layouts
 Sta 556+00 to Sta 562+00 (PR17)

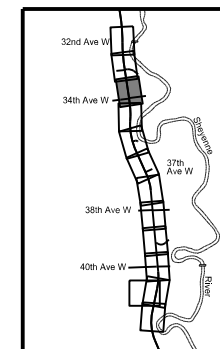


SPEC CODE	BID ITEM	QTY	UNIT
302 121	AGGREGATE BASE COURSE CL 5 Sta. 562+00 to 568+00	1,937	CY
	Sidewalk	146	CY
	Driveway	6	CY
	Surface	10	CY
430 500	COMMERCIAL GRADE HOT MIX ASPHALT 34th Avenue W / Golden Spike Road	117	TON
550 310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED Sta. 562+00 to 568+00	4,843	SY
709 151	GEOSYNTHETIC MATERIAL TYPE R1 Sta. 562+00 to 568+00	7,255	SY
748 190	CURB & GUTTER-TYPE I 30IN Sta. 562+00 to 568+00	2,354	LF
750 30	PIGMENTED IMPRINTED CONCRETE Sta. 562+00 to 568+00	558	SY
750 101	SIDEWALK CONCRETE REINF Sta. 562+00 to 568+00	46	SY
750 120	SIDEWALK CONCRETE 5IN REINF Sta. 562+00 to 568+00	1,271	SY
750 210	CONCRETE MEDIAN NOSE PAVING Sta. 562+00 to 568+00	96	SY
750 1016	DRIVEWAY CONCRETE 6IN REINFORCED Sta. 562+00 to 568+00	50	SY
750 2115	DETECTABLE WARNING PANELS Sta. 562+00 to 568+00	80	SF

LEGEND

	UNTIED JOINT		SUPERPAVE FAA 43
	DOWELED JOINT		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
	TIED JOINT W/ HOT POUR SEAL		SIDEWALK CONCRETE REINF (4IN)
	PAVEMENT REINFORCEMENT		CONCRETE DRIVEWAY 6IN
	10IN PCC PAVEMENT		PIGMENTED IMPRINTED CONCRETE
	COMMERCIAL GRADE HOT MIX ASPHALT		AGGREGATE SURFACE COURSE CL 13

- NOTE:**
- Space Joints at 15' Longitudinally Unless Otherwise Specified.
 - Joints to Match Existing Joints on Southbound Lanes from Station 572+45 to North End of Project.
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 - Pavement Reinforcement Panels to be No. 4 Bar, 24 Inch On Center, Each Way.

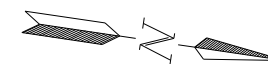


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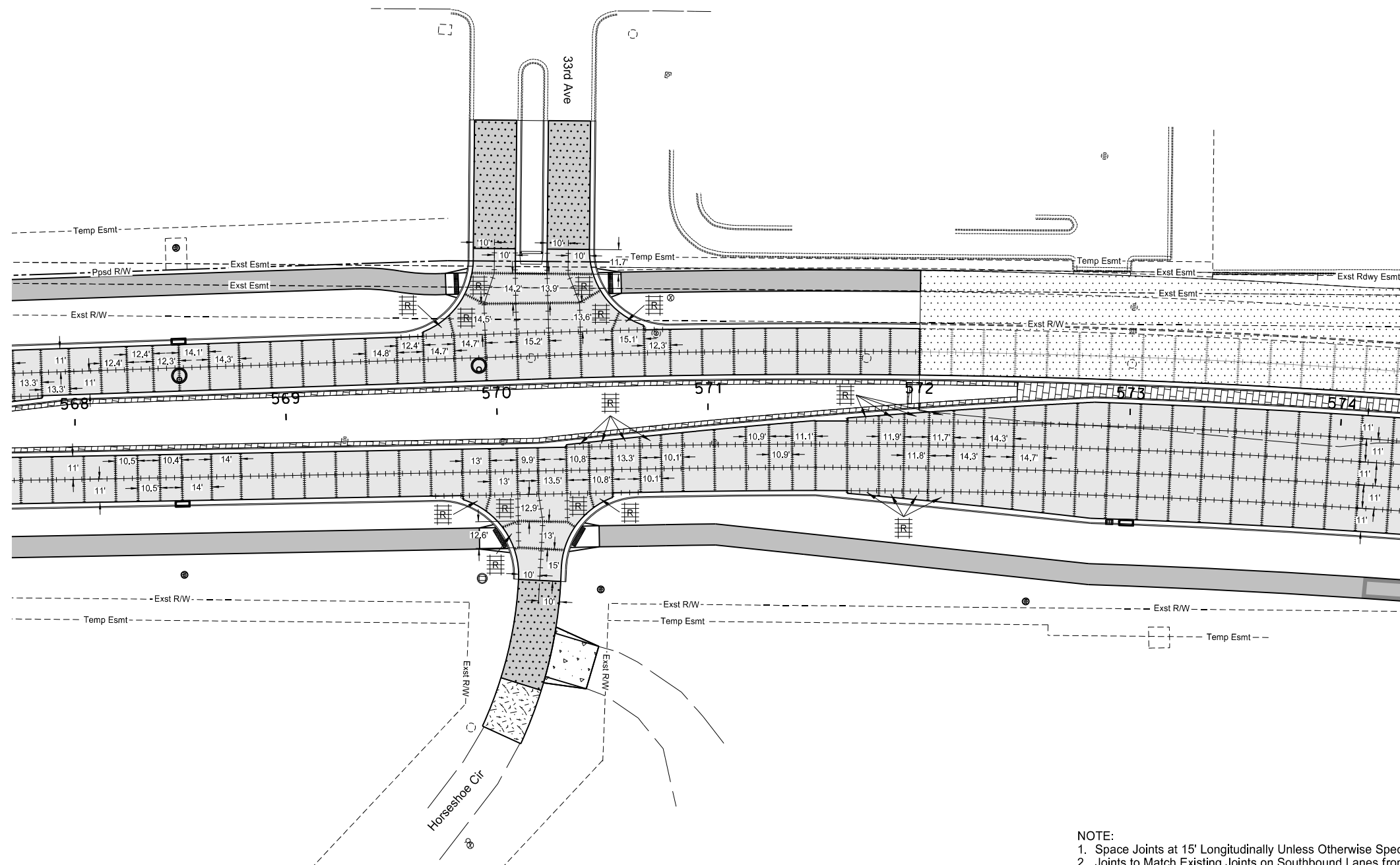
Paving Layouts

Sta 562+00 to Sta 568+00 (PR17)



Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	90	11

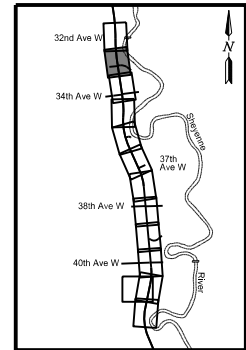
SPEC CODE	BID ITEM	QTY	UNIT
302 121	AGGREGATE BASE COURSE CL 5 Sta. 568+00 to 574+00	1,546	CY
	Sidewalk	111	CY
	Driveway	6	CY
	Surface	10	CY
430 500	COMMERCIAL GRADE HOT MIX ASPHALT 33rd Avenue W	120	TON
550 310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED Sta. 568+00 to 574+00	3,718	SY
709 151	GEOSYNTHETIC MATERIAL TYPE R1 Sta. 568+00 to 574+00	6,079	SY
748 190	CURB & GUTTER-TYPE I 30IN Sta. 568+00 to 574+00	2,455	LF
750 30	PIGMENTED IMPRINTED CONCRETE Sta. 568+00 to 574+00	309	SY
750 120	SIDEWALK CONCRETE 5IN REINF Sta. 568+00 to 574+00	1,003	SY
750 1016	DRIVEWAY CONCRETE 6IN REINFORCED Sta. 568+00 to 574+00	55	SY
750 2115	DETECTABLE WARNING PANELS Sta. 568+00 to 574+00	80	SF



LEGEND

—	UNTIED JOINT		SUPERPAVE FAA 43
—	DOWELED JOINT		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
—	TIED JOINT W/ HOT POUR SEAL		SIDEWALK CONCRETE REINF (4IN)
	PAVEMENT REINFORCEMENT		CONCRETE DRIVEWAY 6IN
	10IN PCC PAVEMENT		PIGMENTED IMPRINTED CONCRETE
	COMMERCIAL GRADE HOT MIX ASPHALT		AGGREGATE SURFACE COURSE CL 13
	NDDOT PROJECT SU-8-992(039)040 (2018)		

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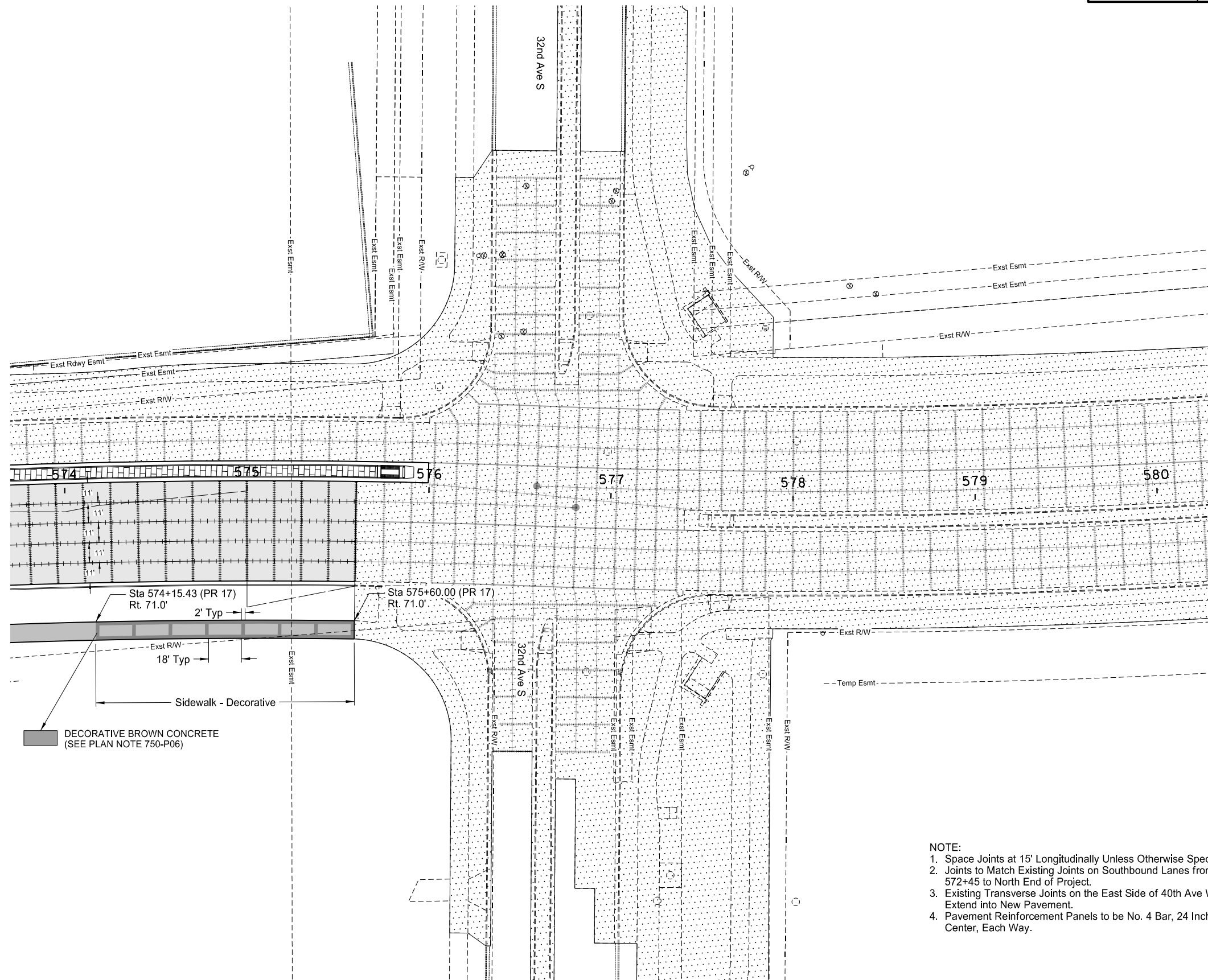


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Sheyenne Street
 Paving Layouts
 Sta 568+00 to Sta 574+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	90	12

SPEC CODE	BID ITEM	QTY	UNIT
302 121	AGGREGATE BASE COURSE CL 5 Sta. 574+00 to 580+00 Sidewalk	362	CY 23 CY
550 310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED Sta. 574+00 to 580+00	972	SY
709 151	GEOSYNTHETIC MATERIAL TYPE R1 Sta. 574+00 to 580+00	1,333	SY
748 190	CURB & GUTTER-TYPE I 30IN Sta. 574+00 to 580+00	530	LF
750 30	PIGMENTED IMPRINTED CONCRETE Sta. 574+00 to 580+00	115	SY
750 107	SIDEWALK-DECORATIVE Sta. 574+15.43 to 575+60	158	SY
750 120	SIDEWALK CONCRETE 5IN REINF Sta. 574+00 to 574+15.43	27	SY

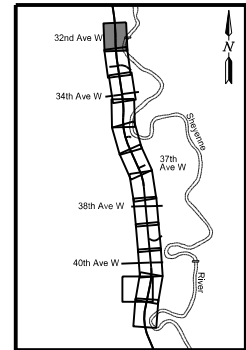


LEGEND

	UNTIED JOINT		SUPERPAVE FAA 43
	DOWELED JOINT		SIDEWALK CONCRETE 5IN REINF (SHARED USE PATH)
	TIED JOINT W/ HOT POUR SEAL		SIDEWALK CONCRETE REINF (4IN)
	PAVEMENT REINFORCEMENT		CONCRETE DRIVEWAY 6IN
	10IN PCC PAVEMENT		PIGMENTED IMPRINTED CONCRETE
	COMMERCIAL GRADE HOT MIX ASPHALT		AGGREGATE SURFACE COURSE CL 13
	NDDOT PROJECT SU-8-992(039)040 (2018)		

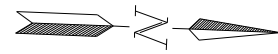
DECORATIVE BROWN CONCRETE (SEE PLAN NOTE 750-P06)

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Sheyenne Street
 Paving Layouts
 Sta 574+00 to Sta 580+00 (PR17)



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SU-8-992(040)041	100	1

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			BY PHASE NO.				
			1	2			
D3-36	36"x6"	STREET NAME SIGN (Sign and installation only)				6	
G20-1-60	60"x24"	ROAD WORK NEXT MILES				34	
G20-1b-60	60"x24"	WORK IN PROGRESS/ NO WORK IN PROGRESS (Sign and installation only)				26	
G20-2-48	48"x24"	END ROAD WORK				19	
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)				18	
G20-10-108	108"x48"	CONTRACTOR SIGN				64	
G20-50a-72	72"x36"	ROAD WORK NEXT MILES RT & LT ARROWS				37	
G20-52a-72	72"x24"	ROAD WORK NEXT MILES RT or LT ARROW				30	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$80 WHEN WORKERS PRESENT				59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)				10	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)				10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)				10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)	35	26	35	7	245
M3-2-24	24"x12"	EAST (Mounted on route marker post)	18		18	7	126
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)	37	24	37	7	259
M3-4-24	24"x12"	WEST (Mounted on route marker post)	15		15	7	105
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)	99	83	99	7	693
M4-8a-24	24"x18"	END DETOUR	5	4	5	8	40
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT				15	
M4-10-48	48"x18"	DETOUR ARROW RIGHT or LEFT	4	6	6	23	138
M5-1-21	21"x15"	ARROW AHD AND RT or LT(Mounted on route marker post)	27	24	27	7	189
M5-2-21	21"x15"	ARROW AHD UP & RT or LT (Mounted on route marker post)				7	
M5-3-24	21"x15"	ADVANCE TURN ARROW	6	4	6	7	42
M6-1-21	21"x15"	ARROW RT or LT (Mounted on route marker post)	27	24	27	7	189
M6-2-21	21"x15"	ARROW UP & RT or LT (Mounted on route marker post)	3	2	3	7	21
M6-3-21	21"x15"	ARROW AHD (Mounted on route marker post)	38	12	38	7	266
R1-1-48	48"x48"	STOP	2		2	32	64
R1-1a-18	18"x18"	STOP and SLOW PADDLE Back to Back	4	4	4	5	20
R1-2-60	60"x60"	YIELD				29	
R1-2aP-24	24"x18"	TO ON COMING TRAFFIC				7	
R2-1-48	48"x60"	SPEED LIMIT	1	1	1	39	39
R2-1a-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)		1	1	10	10
R3-1-24	24"x24"	RIGHT TURN PROHIB	1	2	2	14	28
R3-2-24	24"x24"	LEFT TURN PROHIB	1	2	2	14	28
R3-4-24	24"x24"	U TURN PROHIBITED				14	
R3-5-30	30"x36"	RIGHT or LEFT TURN ONLY	7	5	7	15	105
R3-5a-30	30"x36"	STRAIGHT AHEAD				9	
R3-6a-30	30"x36"	THRU LANE				15	
R3-6R-24	30"x36"	THRU WITH RIGHT TURN				15	
R3-7-48	48"x48"	LEFT or RIGHT LANE MUST TURN LEFT or RIGHT				35	
R4-1-48	48"x60"	DO NOT PASS				39	
R4-7-48	48"x60"	KEEP RIGHT SYMBOL				39	
R5-1-48	48"x48"	DO NOT ENTER				35	
R6-1-36	36"x12"	ONE WAY RIGHT or LEFT				13	
R7-1-12	12"x18"	NO PARKING				11	
R8-3-12	12"x12"	NO PARKING				10	
R9-9-24	24"x12"	SIDEWALK CLOSED	9	19	9	10	190
R9-11a-24	24"x12"	SIDEWALK CLOSED, CROSS HERE	4	4	4	7	28
R10-6-24	24"x36"	STOP HERE ON RED				16	
R11-2-48	48"x30"	ROAD CLOSED	12	10	12	28	336
R11-2a-48	48"x30"	STREET CLOSED				28	
R11-3a-60	60"x30"	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY				31	
R11-3c-60	60"x30"	STREET CLOSED MILES AHEAD LOCAL TRAFFIC ONLY				31	
R11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC	5		5	31	155
W1-3-48	48"x48"	RIGHT or LEFT SHARP REVERSE CURVE ARROW				35	
W1-4-48	48"x48"	RIGHT or LEFT REVERSE CURVE ARROW				35	
W1-4b-48	48"x48"	DOUBLE RIGHT or LEFT REVERSE CURVE ARROW				35	
W1-6-48	48"x24"	LARGE ARROW				26	
W3-1-48	48"x48"	STOP AHEAD SYMBOL	1		1	35	35
W3-3-48	48"x48"	SIGNAL AHEAD SYMBOL				35	
W3-4-48	48"x48"	BE PREPARED TO STOP				35	
W3-5-48	48"x48"	SPEED REDUCTION AHEAD				35	
W4-2-48	48"x48"	RIGHT or LEFT LANE TRANSITION SYMBOL	1	1	1	35	35
W5-1-48	48"x48"	ROAD NARROWS				35	
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE				35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW				35	
W6-3-48	48"x48"	TWO WAY TRAFFIC SYMBOL				35	
W8-1-48	48"x48"	BUMP	6	6	6	35	210
W8-3-48	48"x48"	PAVEMENT ENDS	6	6	6	35	210
W8-7-48	48"x48"	LOOSE GRAVEL				35	
W8-9a-48	48"x48"	SHOULDER DROP-OFF				35	
W8-11-48	48"x48"	UNEVEN LANES				35	
W8-12-48	48"x48"	NO CENTER STRIPE				35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY				35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or FT.				35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or FT.				35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY				35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL				35	
W12-1-48	48"x48"	DOUBLE ARROW	1	2	2	35	70
W12-2-48	48"x48"	LOW CLEARANCE SYMBOL				35	
W13-1-24	24"x24"	MPH ADVISORY SPEED PLATE (Mounted on warning sign post)				11	
W13-4-48	48"x60"	RAMP ARROW				39	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			BY PHASE NO.				
			1	2			
W14-3-48	48"x36"	NO PASSING ZONE					23
W16-7p-24	24"x12"	RIGHT or LEFT DOWNWARD DIAGONAL ARROW					7
W20-1-48	48"x48"	ROAD WORK AHEAD or FT or MILE		1	1	35	35
W20-2-48	48"x48"	DETOUR AHEAD or FT	8	4	8	35	280
W20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or FT.	9	4	9	35	315
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or FT.					35
W20-5-48	48"x48"	RIGHT or LEFT LANE CLOSED AHEAD or FT.	1	1	1	35	35
W20-7a-48	48"x48"	FLAGGING SYMBOL					35
W20-7k-24	24"x18"	FEET (Mounted on warning sign post)					10
W20-8-48	48"x48"	STREET CLOSED					35
W20-51-48	48"x48"	EQUIPMENT WORKING					35
W20-52-54	54"x12"	NEXT MILES (Mounted on warning sign post)					12
W21-1a-48	48"x48"	WORKERS SYMBOL					35
W21-2-48	48"x48"	FRESH OIL					35
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or FT					35
W21-5-48	48"x48"	SHOULDER WORK					35
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED					35
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or FT.					35
W21-6a-48	48"x48"	SURVEY CREW AHEAD					35
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or FT.					35
W21-51-48	48"x48"	MATERIAL ON ROADWAY					35
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK					35
	24"x24"	TAKE TURNS (6" D letters) (Mounted on stop sign post)					11

SPECIAL SIGNS							
CONSIGN	DESCRIPTION	1	2	TOTAL	UNITS PER AMOUNT	UNITS SUB TOTAL	
CONSIGN 1	42"x9" SHEYENNE ST	69	56	69	7	483	
CONSIGN 2	42"x9" 34TH AVE W	24	21	24	7	168	
CONSIGN 3	42"x9" 38TH AVE W	23	20	23	7	161	
CONSIGN 4	42"x9" 40TH AVE W	24		24	7	168	
CONSIGN 5	36"x24" TOWN & COUNTRY (LEFT)	2	2	2	16	32	
CONSIGN 6	36"x24" EAGLE RUN PLAZA (LEFT)	2	2	2	16	32	
CONSIGN 7	36"x24" TESORO DAIRY QUEEN (LEFT)	2	2	2	16	32	
CONSIGN 8	36"x24" TOWN & COUNTRY (RIGHT)	2	2	2	16	32	
CONSIGN 9	36"x24" EAGLE RUN PLAZA (RIGHT)	2	2	2	16	32	
CONSIGN 10	36"x24" TESORO DAIRY QUEEN (RIGHT)	2	2	2	16	32	

SPEC & CODE			
704-1000	TRAFFIC CONTROL SIGNS	TOTAL UNITS	5713

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY		TOTAL QUANTITY
			BY PHASE NO.		
			1	2	
302-0050	TRAFFIC SERVICE AGGREGATE	TON			521
430-0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	70		70
704-0100	FLAGGING	MHR			
704-1041	ATTENUATION DEVICE-TYPE B-55	EACH			
704-1043	ATTENUATION DEVICE-TYPE B-65	EACH			
704-1044	ATTENUATION DEVICE-TYPE B-70	EACH			
704-1050	TYPE I BARRICADES	EACH			
704-1051	TYPE II BARRICADES	EACH			
704-1052	TYPE III BARRICADES	EACH	55	40	55
704-1054	SIDEWALK BARRICADE	EACH	13	23	23
704-1060	DELINEATOR DRUMS	EACH	29	47	47
704-1065	TRAFFIC CONES	EACH			
704-1067	TUBULAR MARKERS	EACH	58	100	100
704-1070	DELINEATOR	EACH			
704-1072	FLEXIBLE DELINEATORS	EACH			
704-1081	VERTICAL PANELS - BACK TO BACK	EACH			
704-1085	SEQUENCING ARROW PANEL - TYPE A	EACH			
704-1086	SEQUENCING ARROW PANEL - TYPE B	EACH			
704-1087	SEQUENCING ARROW PANEL - TYPE C	EACH			
704-1088	SEQUENCING ARROW PANEL - TYPE C - CROSSOVER	EACH			
704-1095	TYPE B FLASHERS	EACH			
704-1500	OBLITERATION OF PVMT MK	SF			
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF			
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH			
750-2155	DETECTABLE WARNING PANELS	SF	40		40
752-0911	TEMPORARY SAFETY FENCE	LF	635		635
762-0200	RAISED PAVEMENT MARKERS	EACH			
762-0420	SHORT TERM 4IN LINE - TYPE R	LF			
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF			
772-2110	FLASHING BEACON - POST MOUNTED	EACH			

NOTE:
If additional signs are required, units will be calculated using the formula from Section III-19.06 of the Design Manual.
<http://www.dot.nd.gov/>

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<p>Traffic Control Devices List Sheyenne Street</p>

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			BY PHASE NO. 1	2			
D3-36	36"x6"	STREET NAME SIGN (Sign and installation only)				6	
G20-1-60	60"x24"	ROAD WORK NEXT MILES				34	
G20-1b-60	60"x24"	WORK IN PROGRESS/ NO WORK IN PROGRESS (Sign and installation only)				26	
G20-2-48	48"x24"	END ROAD WORK				19	
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)				18	
G20-10-108	108"x48"	CONTRACTOR SIGN				64	
G20-50a-72	72"x36"	ROAD WORK NEXT MILES RT & LT ARROWS				37	
G20-52a-72	72"x24"	ROAD WORK NEXT MILES RT or LT ARROW				30	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$80 WHEN WORKERS PRESENT				59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)				10	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)				10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)				10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)				7	
M3-2-24	24"x12"	EAST (Mounted on route marker post)				7	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)				7	
M3-4-24	24"x12"	WEST (Mounted on route marker post)				7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)	9		9	7	63
M4-8a-24	24"x18"	END DETOUR				8	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT				15	
M4-10-48	48"x18"	DETOUR ARROW RIGHT or LEFT				23	
M5-1-21	21"x15"	ARROW AHD AND RT or LT (Mounted on route marker post)				7	
M5-2-21	21"x15"	ARROW AHD UP & RT or LT (Mounted on route marker post)				7	
M5-3-24	24"x18"	ADVANCE TURN ARROW				8	
M6-1-21	21"x15"	ARROW RT or LT (Mounted on route marker post)				7	
M6-2-21	21"x15"	ARROW UP & RT or LT (Mounted on route marker post)				7	
M6-2R-24	24"x18"	DIRECTIONAL ARROW				8	
M6-3-21	21"x15"	ARROW AHD (Mounted on route marker post)				7	
R1-1-48	48"x48"	STOP				32	
R1-1a-18	18"x18"	STOP and SLOW PADDLE Back to Back				5	
R1-2-60	60"x60"	YIELD				29	
R1-2aP-24	24"x18"	TO ON COMING TRAFFIC				7	
R2-1-48	48"x60"	SPEED LIMIT				39	
R2-1a-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)				10	
R3-2-24	24"x24"	LEFT TURN PROHIB				14	
R3-4-24	24"x24"	U TURN PROHIBITED				14	
R3-5-30	30"x36"	RIGHT or LEFT TURN ONLY				15	
R3-5a-30	30"x36"	STRAIGHT AHEAD				9	
R3-6a-30	30"x36"	THRU LANE				15	
R3-6R-24	30"x36"	THRU WITH RIGHT TURN				15	
R3-7-48	48"x48"	LEFT or RIGHT LANE MUST TURN LEFT or RIGHT				35	
R4-1-48	48"x60"	DO NOT PASS				39	
R4-7-48	48"x60"	KEEP RIGHT SYMBOL				39	
R5-1-48	48"x48"	DO NOT ENTER				35	
R6-1-36	36"x12"	ONE WAY RIGHT or LEFT				13	
R7-1-12	12"x18"	NO PARKING				11	
R8-3-12	12"x12"	NO PARKING				10	
R9-9-24	24"x12"	SIDEWALK CLOSED				10	
R9-11a-24	24"x12"	SIDEWALK CLOSED, CROSS HERE				7	
R10-6-24	24"x36"	STOP HERE ON RED				16	
R11-2-48	48"x30"	ROAD CLOSED				28	
R11-2a-48	48"x30"	STREET CLOSED				28	
R11-3a-60	60"x30"	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY				31	
R11-3c-60	60"x30"	STREET CLOSED MILES AHEAD LOCAL TRAFFIC ONLY				31	
R11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC				31	
W1-3-48	48"x48"	RIGHT or LEFT SHARP REVERSE CURVE ARROW				35	
W1-4-48	48"x48"	RIGHT or LEFT REVERSE CURVE ARROW				35	
W1-4b-48	48"x48"	DOUBLE RIGHT or LEFT REVERSE CURVE ARROW				35	
W1-6-48	48"x24"	LARGE ARROW				26	
W3-1-48	48"x48"	STOP AHEAD SYMBOL				35	
W3-3-48	48"x48"	SIGNAL AHEAD SYMBOL				35	
W3-4-48	48"x48"	BE PREPARED TO STOP				35	
W3-5-48	48"x48"	SPEED REDUCTION AHEAD				35	
W4-2-48	48"x48"	RIGHT or LEFT LANE TRANSITION SYMBOL				35	
W5-1-48	48"x48"	ROAD NARROWS				35	
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE				35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW				35	
W6-3-48	48"x48"	TWO WAY TRAFFIC SYMBOL				35	
W8-1-48	48"x48"	BUMP				35	
W8-3-48	48"x48"	PAVEMENT ENDS				35	
W8-7-48	48"x48"	LOOSE GRAVEL				35	
W8-9a-48	48"x48"	SHOULDER DROP-OFF				35	
W8-11-48	48"x48"	UNEVEN LANES				35	
W8-12-48	48"x48"	NO CENTER STRIPE				35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY				35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or FT.				35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or FT.				35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY				35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL				35	
W12-1-48	48"x48"	DOUBLE ARROW				35	
W12-2-48	48"x48"	LOW CLEARANCE SYMBOL				35	
W13-1-24	24"x24"	MPH ADVISORY SPEED PLATE (Mounted on warning sign post)				11	
W13-4-48	48"x60"	RAMP ARROW				39	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED		TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			BY PHASE NO. 1	2			
W14-3-48	48"x36"	NO PASSING ZONE					23
W16-5p-24	24"x18"	LEFT or RIGHT					7
W16-6p-24	24"x18"	LEFT or RIGHT AHEAD					7
W16-7p-24	24"x12"	RIGHT or LEFT DOWNWARD DIAGONAL ARROW					7
W20-1-48	48"x48"	ROAD WORK AHEAD or FT or MILE					35
W20-2-48	48"x48"	DETOUR AHEAD or FT					35
W20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or FT.					35
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or FT.					35
W20-5-48	48"x48"	RIGHT or LEFT LANE CLOSED AHEAD or FT.					35
W20-7a-48	48"x48"	FLAGGING SYMBOL					35
W20-7k-24	24"x18"	FEET (Mounted on warning sign post)					10
W20-8-48	48"x48"	STREET CLOSED					35
W20-51-48	48"x48"	EQUIPMENT WORKING					35
W20-52-54	54"x12"	NEXT MILES (Mounted on warning sign post)					12
W21-1a-48	48"x48"	WORKERS SYMBOL					35
W21-2-48	48"x48"	FRESH OIL					35
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or FT					35
W21-5-48	48"x48"	SHOULDER WORK					35
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED					35
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or FT.					35
W21-6a-48	48"x48"	SURVEY CREW AHEAD					35
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or FT.					35
W21-51-48	48"x48"	MATERIAL ON ROADWAY					35
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK					35
	24"x24"	TAKE TURNS (6" D letters) (Mounted on stop sign post)					11

SPECIAL SIGNS

CONSIGN 1	42"x9"	SHEYENNE ST					7
CONSIGN 2	42"x9"	34TH AVE W					7
CONSIGN 3	42"x9"	38TH AVE W					7
CONSIGN 4	42"x9"	40TH AVE W					7

SPEC & CODE

SPEC & CODE	DESCRIPTION	TOTAL UNITS
704-1000	TRAFFIC CONTROL SIGNS	63

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY BY PHASE NO.		TOTAL QUANTITY
			1	2	
704-0100	FLAGGING	MHR			
704-1041	ATTENUATION DEVICE-TYPE B-55	EACH			
704-1043	ATTENUATION DEVICE-TYPE B-65	EACH			
704-1044	ATTENUATION DEVICE-TYPE B-70	EACH			
704-1050	TYPE I BARRICADES	EACH			
704-1051	TYPE II BARRICADES	EACH			
704-1052	TYPE III BARRICADES	EACH			
704-1060	DELINEATOR DRUMS	EACH			
704-1065	TRAFFIC CONES	EACH			
704-1067	TUBULAR MARKERS	EACH			
704-1070	DELINEATOR	EACH			
704-1072	FLEXIBLE DELINEATORS	EACH			
704-1080	STACKABLE VERTICAL PANELS	EACH		5	5
704-1081	VERTICAL PANELS - BACK TO BACK	EACH			
704-1085	SEQUENCING ARROW PANEL - TYPE A	EACH			
704-1086	SEQUENCING ARROW PANEL - TYPE B	EACH			
704-1087	SEQUENCING ARROW PANEL - TYPE C	EACH			
704-1088	SEQUENCING ARROW PANEL - TYPE C - CROSSOVER	EACH			
704-1095	TYPE B FLASHERS	EACH			
704-1500	OBLITERATION OF PVMT MK	SF			
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF			
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH			
762-0200	RAISED PAVEMENT MARKERS	EACH			
762-0420	SHORT TERM 4IN LINE - TYPE R	LF			
762-0426	SHORT TERM 24IN LINE-TYPE R	LF		108	108
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF			
762-0436	SHORT TERM 24IN LINE-TYPE NR	LF	70		70
772-2110	FLASHING BEACON - POST MOUNTED	EACH			
774-2810	TEMPORARY TRAFFIC SIGNAL	EACH	2		2

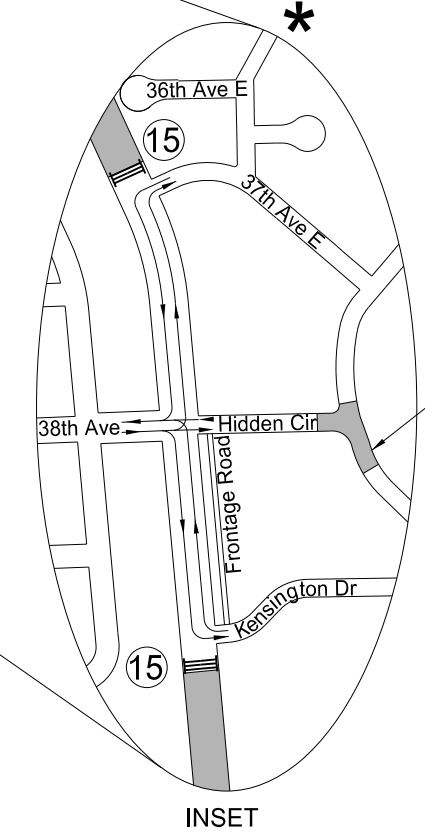
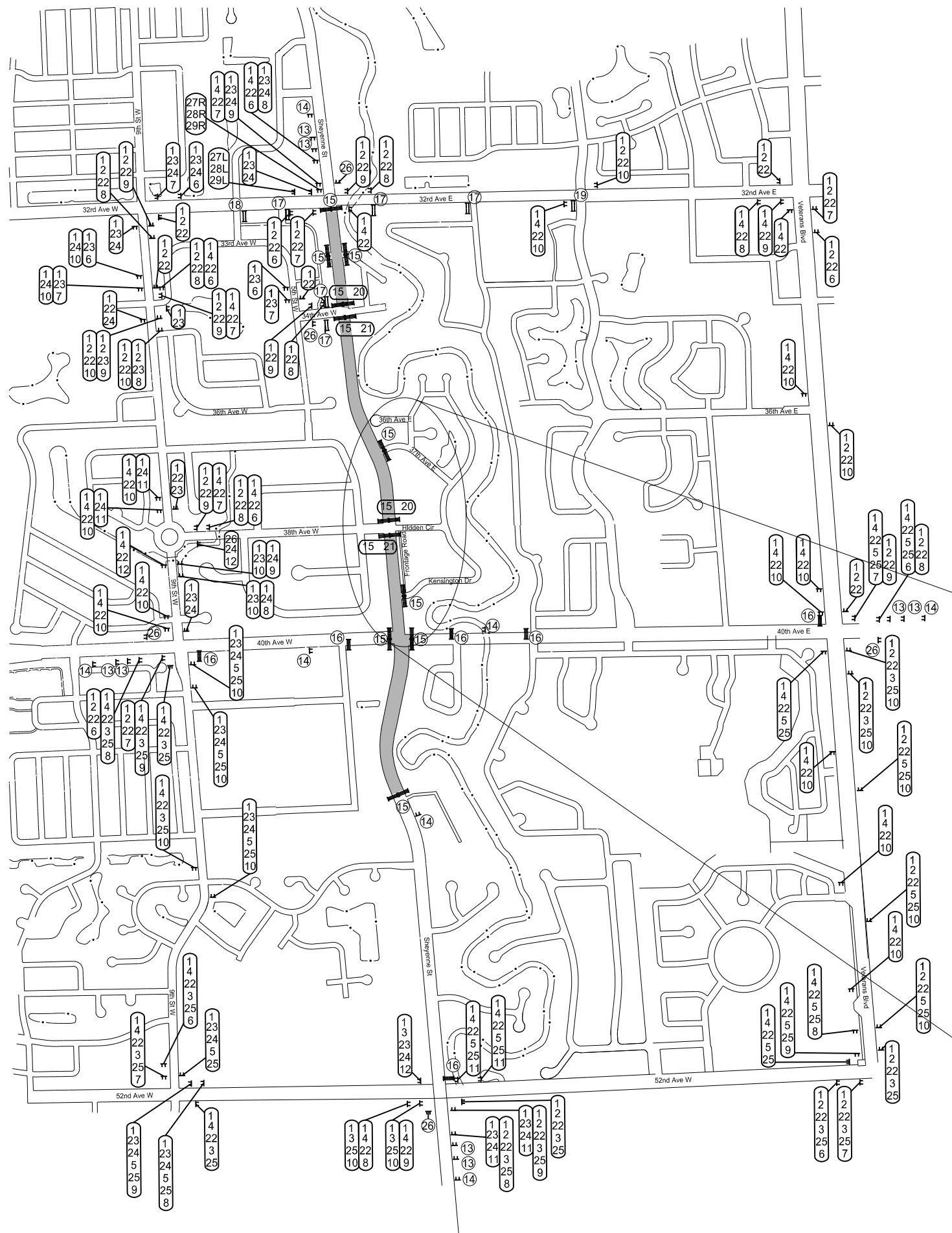
NOTE:
If additional signs are required, units will be calculated using the formula from Section III-19.06 of the Design Manual.
<http://www.dot.nd.gov/>

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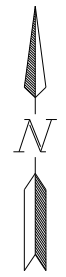
Traffic Control Devices List
Sheyenne Street

LEGEND

- 1 2 20 STACK ASSEMBLY
- TYPE 3 BARRICADE
- SIDEWALK BARRICADE
- TT SIGN
- 27L/27R TOWN & COUNTRY CONSIGN 5
TOWN & COUNTRY CONSIGN 8
- 28L/28R EAGLE RUN PLAZA CONSIGN 6
EAGLE RUN PLAZA CONSIGN 9
- 29L/29R TESORO DAIRY QUEEN CONSIGN 7
TESORO DAIRY QUEEN CONSIGN 10
- 1 DETOUR M-4-8-24
- 2 NORTH M3-1-24
- 3 EAST M3-2-24
- 4 SOUTH M3-3-24
- 5 WEST M3-4-24
- 6 LEFT TURN M5-1L-21
- 7 LEFT TURN M6-1L-21
- 8 RIGHT TURN M5-1R-21
- 9 RIGHT TURN M6-1R-21
- 10 STRAIGHT AHEAD M6-3-21
- 11 RIGHT TURN M5-3L-21
- 12 LEFT TURN M6-2R-21
- 13 DETOUR XXXX FT W20-2-48
- 14 ROAD CLOSED AHEAD W20-3-48
- 15 ROAD CLOSED R11-2-48
- 16 STREET CLOSED TO THRU TRAFFIC R11-4-60
- 17 SIDEWALK CLOSED R9-9-24
- 18 SIDEWALK CLOSED CROSS HERE R9-11a(L)-24
- 19 SIDEWALK CLOSED CROSS HERE R9-11a(R)-24
- 20 DETOUR M4-10(L)-48
- 21 DETOUR M4-10(R)-48
- 22 SHEYENNE ST CONSIGN 1
- 23 34TH AVE W CONSIGN 2
- 24 38TH AVE W CONSIGN 3
- 25 40TH AVE W CONSIGN 4
- 26 END DETOUR M4-8a-24



*
Street Improvement District No. 2250 Kensington Drive / Hidden Circle Connection. Work associated with the Kensington Drive / Hidden Circle connection is not part of SU-8-992(040)041. This area to be closed for construction in early Spring 2019 and open to traffic by June 15th 2019.



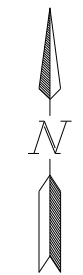
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Sheyenne Street
Work Zone Traffic Control
Traffic Control Detour Phase 1

LEGEND

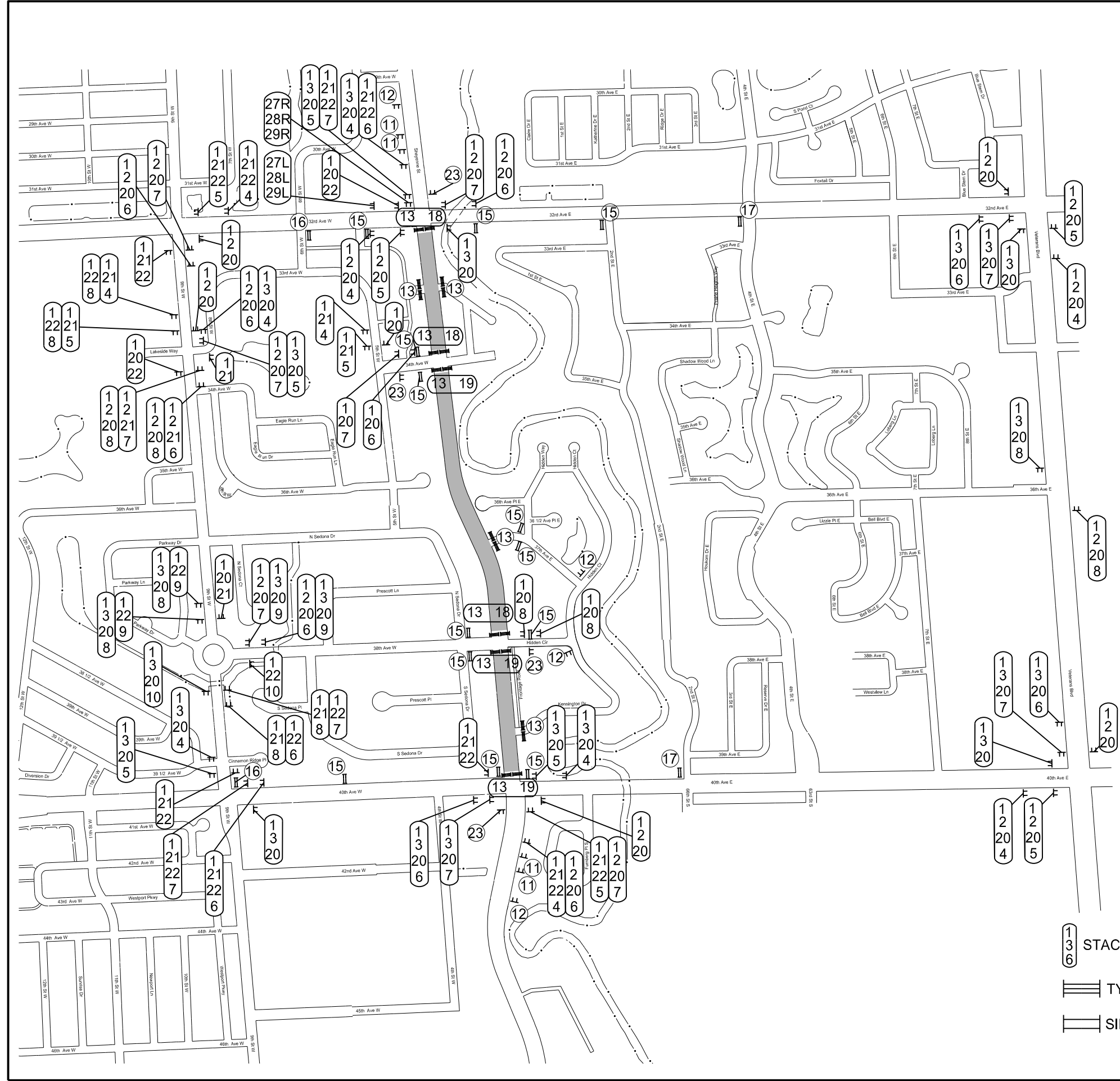
- | | | | | | |
|---|--------|-------------------|---------|-------------------------------|-------------------------|
| ① | DETOUR | M4-8-24 | ⑬ | ROAD CLOSED | R11-2-48 |
| ② | NORTH | M3-1-24 | ⑭ | STREET CLOSED TO THRU TRAFFIC | R11-4-60 |
| ③ | SOUTH | M3-3-24 | ⑮ | SIDEWALK CLOSED | R9-9-24 |
| ④ | ← | M5-1L-21 | ⑯ | SIDEWALK CLOSED CROSS HERE | R9-11a(L)-24 |
| ⑤ | ← | M6-1L-21 | ⑰ | SIDEWALK CLOSED CROSS HERE | R9-11a(R)-24 |
| ⑥ | ↶ | M5-1R-21 | ⑱ | DETOUR | M4-10(L)-48 |
| ⑦ | → | M6-1R-21 | ⑲ | DETOUR | M4-10(R)-48 |
| ⑧ | ↑ | M6-3-21 | ⑳ | SHEYENNE ST | CONSIGN 1 |
| ⑨ | ↷ | M5-3L-21 | ㉑ | 34TH AVE W | CONSIGN 2 |
| ⑩ | ↗ | M6-2R-21 | ㉒ | 38TH AVE W | CONSIGN 3 |
| ⑪ | ◇ | DETOUR XXXX FT | ㉓ | END DETOUR | M4-8a-24 |
| ⑫ | ◇ | ROAD CLOSED AHEAD | 24L/24R | TOWN & COUNTRY | CONSIGN 4
CONSIGN 8 |
| | | | 25L/25R | EAGLE RUN PLAZA | CONSIGN 6
CONSIGN 9 |
| | | | 26L/26R | TESORO DAIRY QUEEN | CONSIGN 7
CONSIGN 10 |

- ① ③ ⑥ STACK ASSEMBLY TT SIGN
- ≡ TYPE 3 BARRICADE
- ≡ SIDEWALK BARRICADE

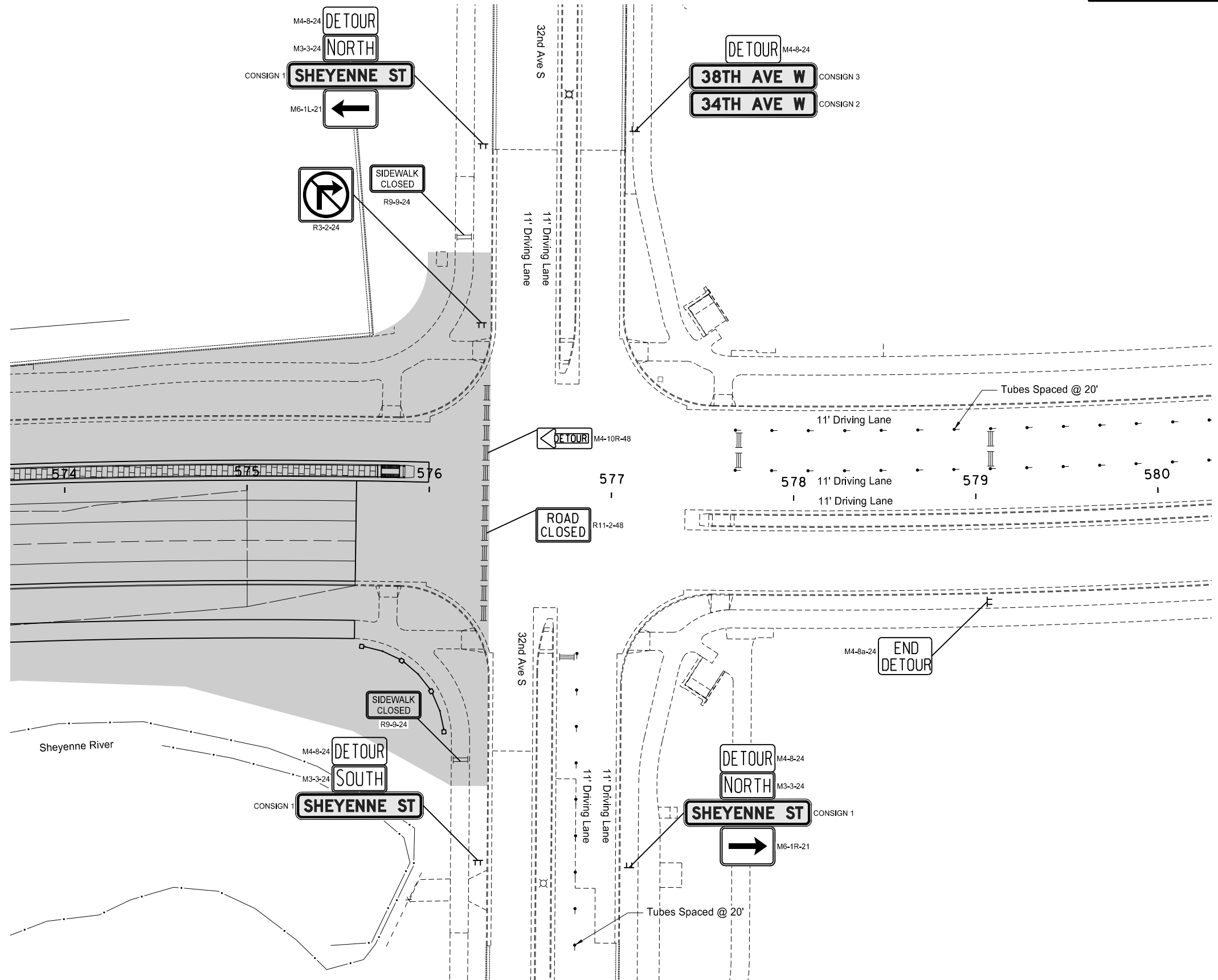


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Sheyenne Street
Work Zone Traffic Control
Traffic Control Detour Phase 2

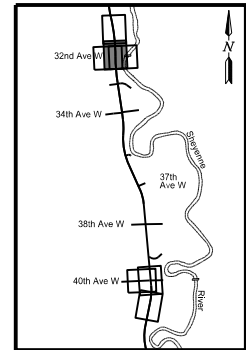


Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	100	5



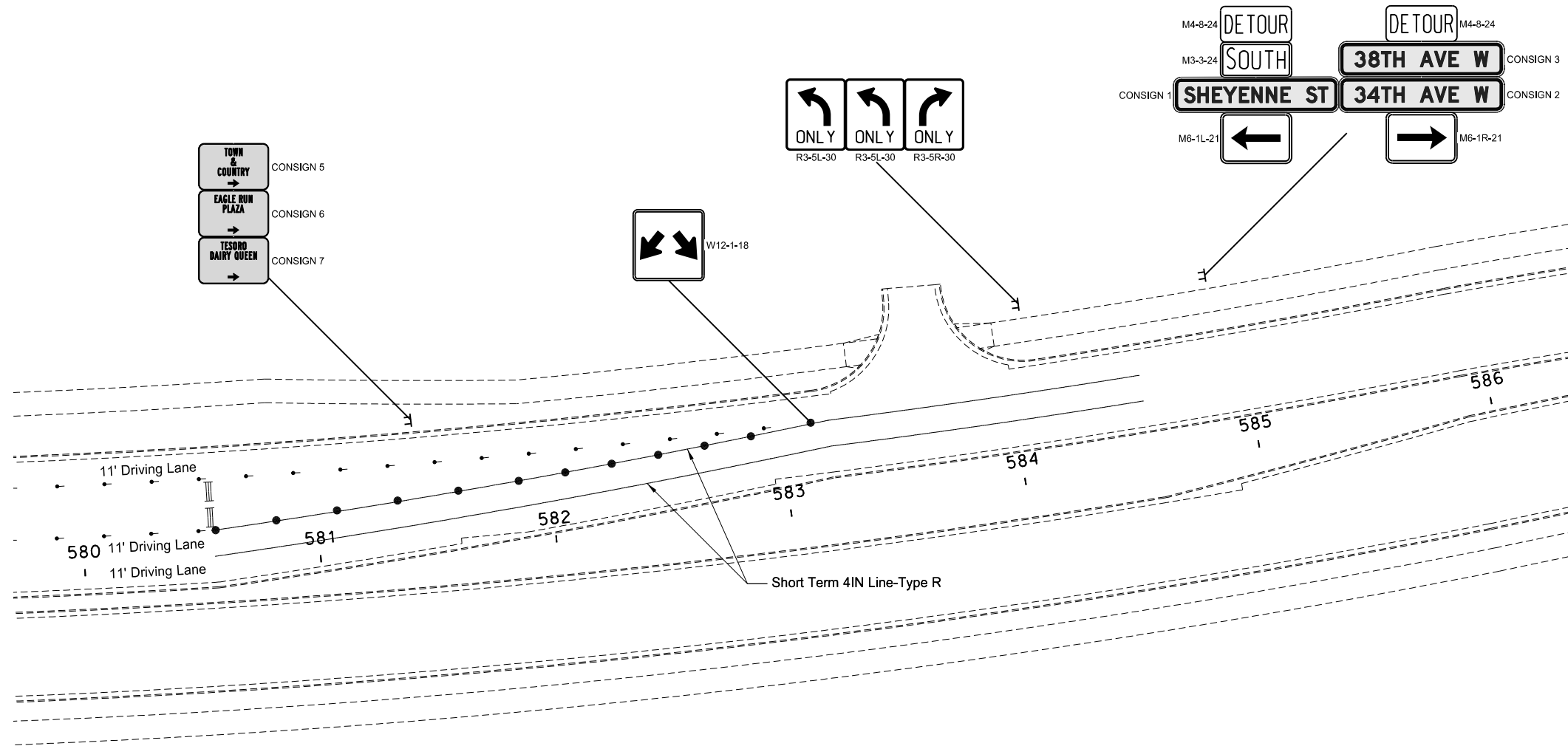
LEGEND

WORK ZONE AREA	TYPE III BARRICADE
DELINEATOR DRUM	SIGN
TUBULAR MARKER	SIDEWALK BARRICADE



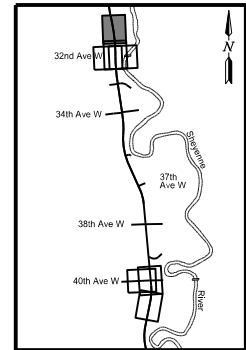
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Sheyenne Street
 Work Zone Traffic Control
 Phase 1 & Phase 2
 Sta 574+00 to Sta 580+00 (PR17)



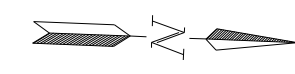
LEGEND

WORK ZONE AREA	TYPE III BARRICADE
DELINEATOR DRUM	SIGN
TUBULAR MARKER	SIDEWALK BARRICADE

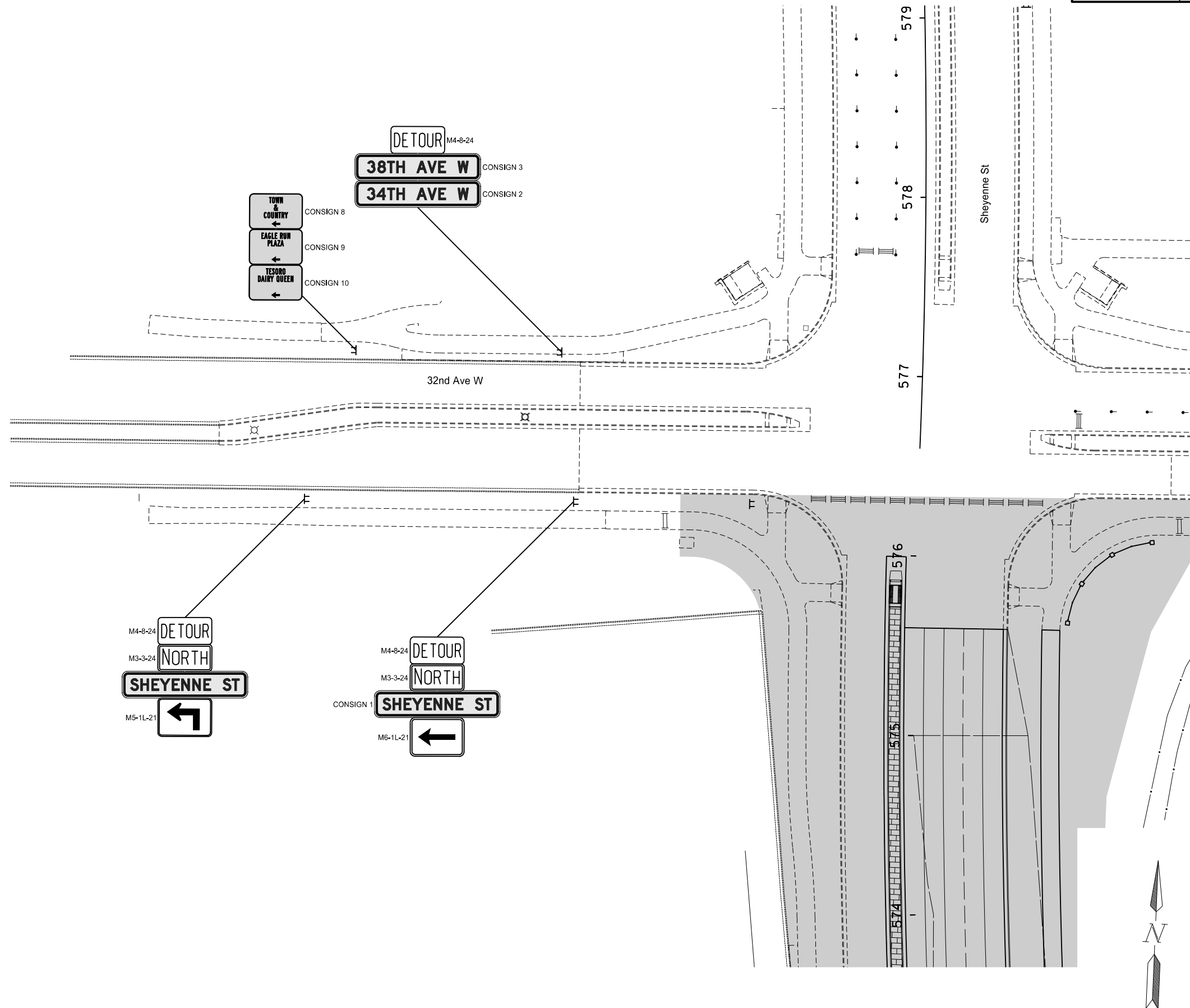


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Sheyenne Street
 Work Zone Traffic Control
 Phase 1 & Phase 2
 Sta 580+00 to Sta 586+00 (PR17)

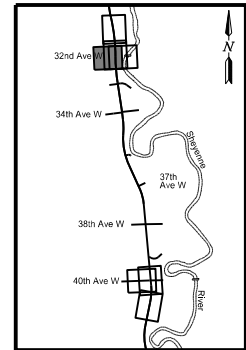


Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	100	7



LEGEND

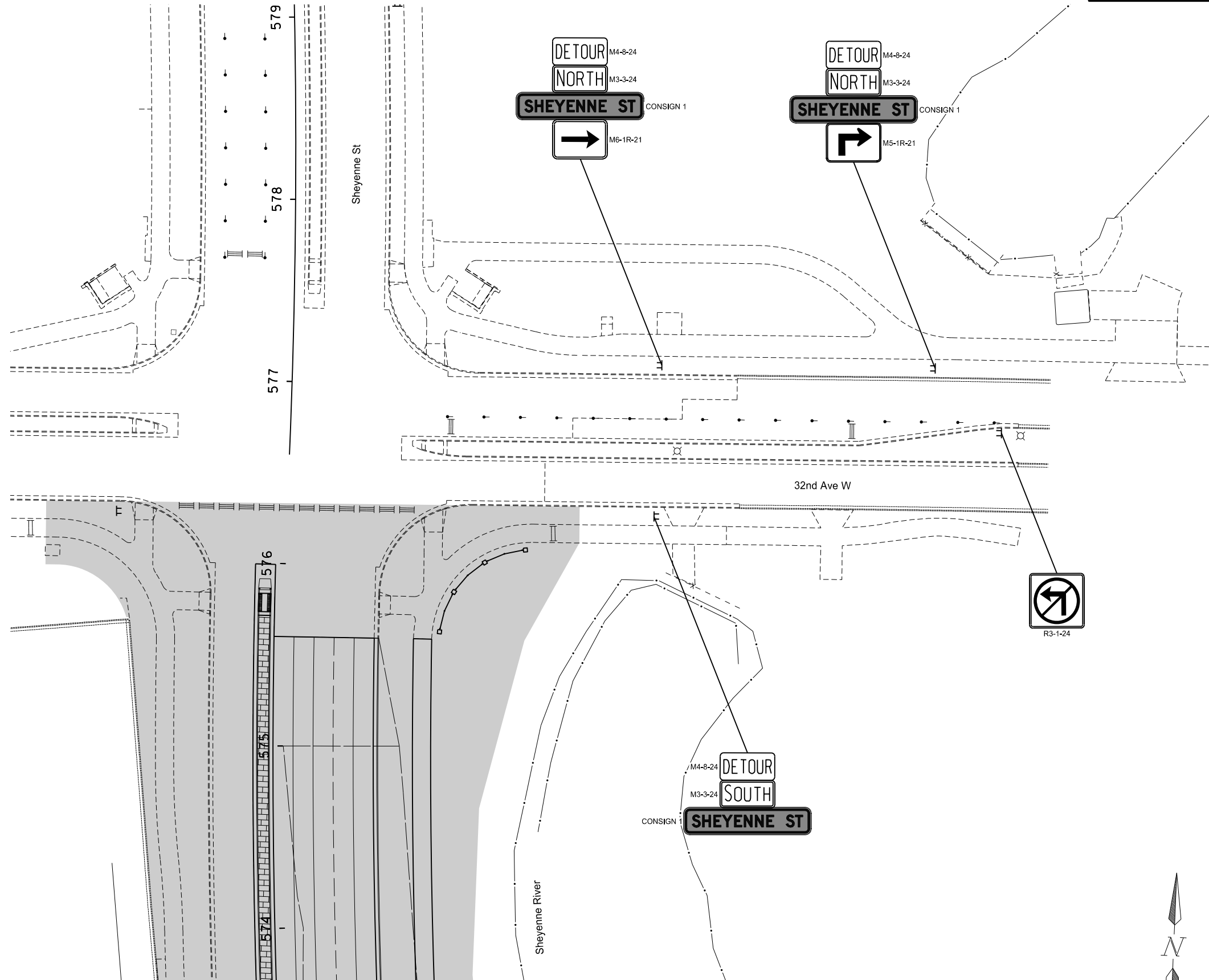
WORK ZONE AREA	TYPE III BARRICADE
DELINEATOR DRUM	SIGN
TUBULAR MARKER	SIDEWALK BARRICADE



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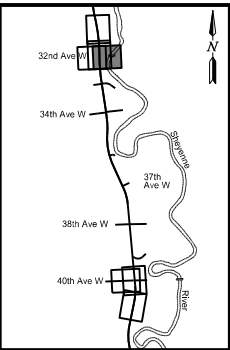
Sheyenne Street
 Work Zone Traffic Control
 Phase 1 & Phase 2
 32nd Ave

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	100	8



LEGEND

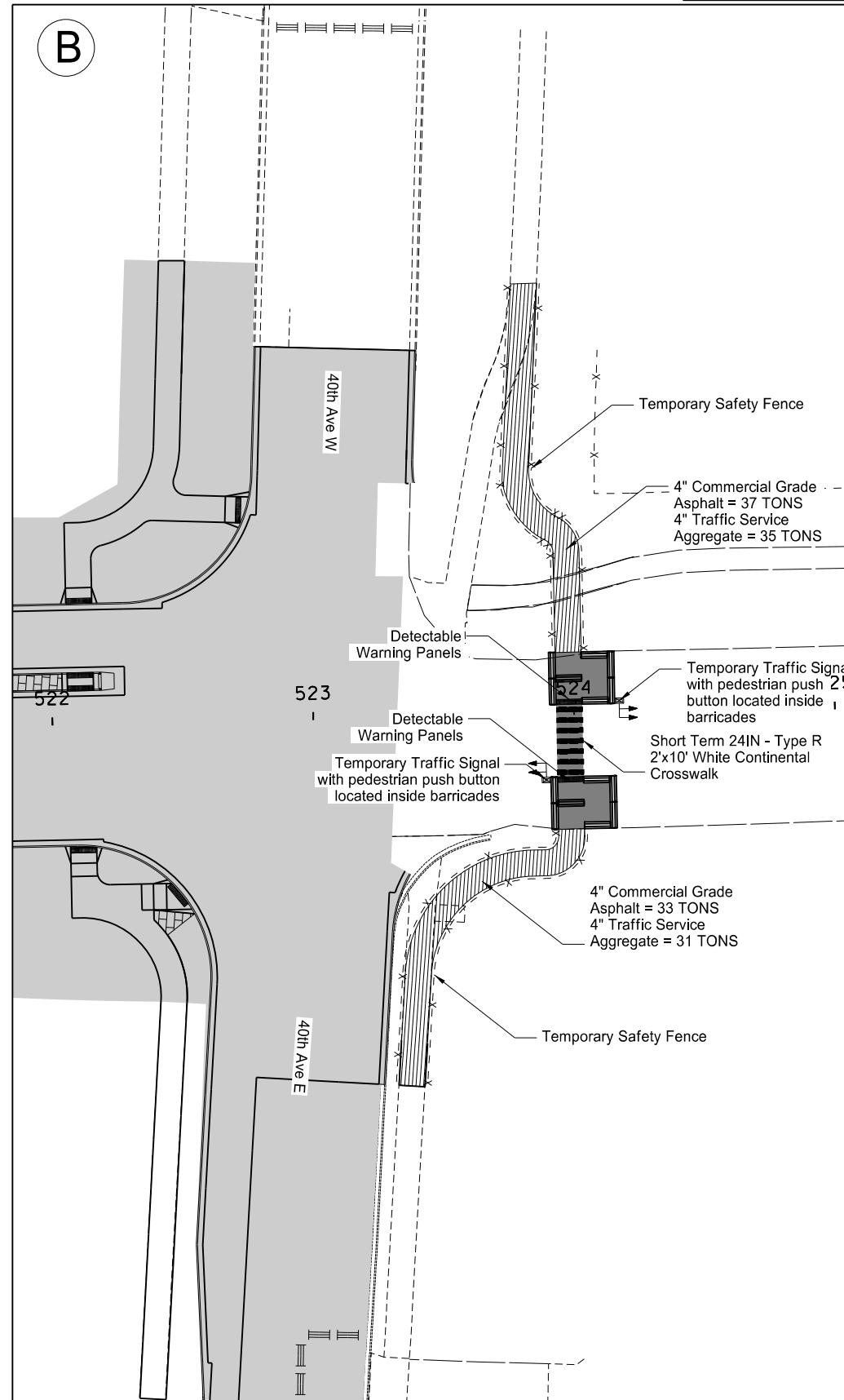
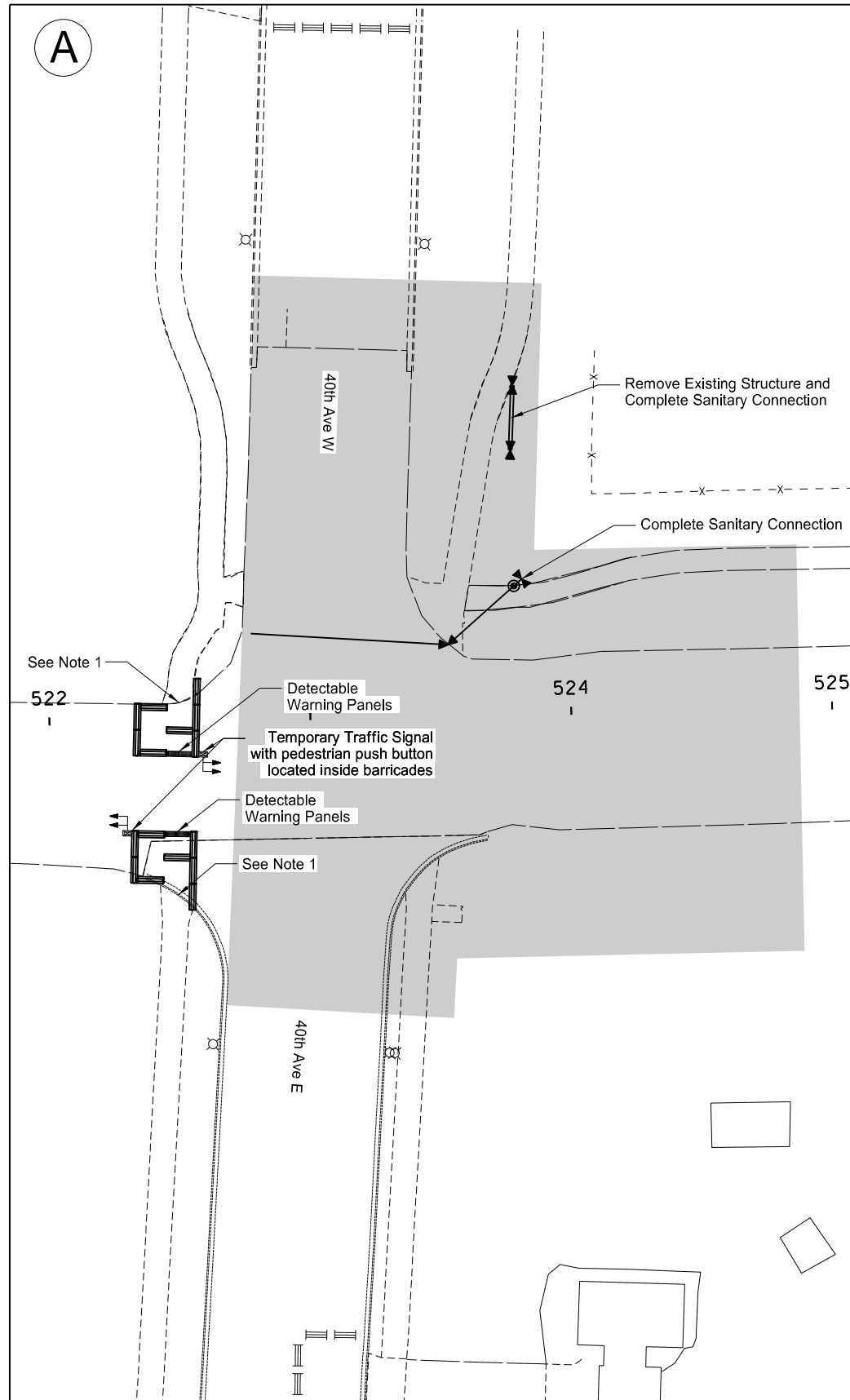
WORK ZONE AREA	TYPE III BARRICADE
DELINEATOR DRUM	SIGN
TUBULAR MARKER	SIDEWALK BARRICADE



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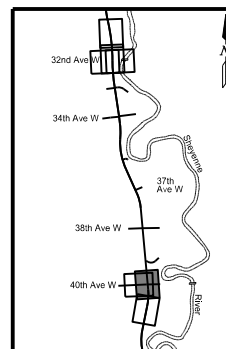
Sheyenne Street
 Work Zone Traffic Control
 Phase 1 & Phase 2
 32nd Ave





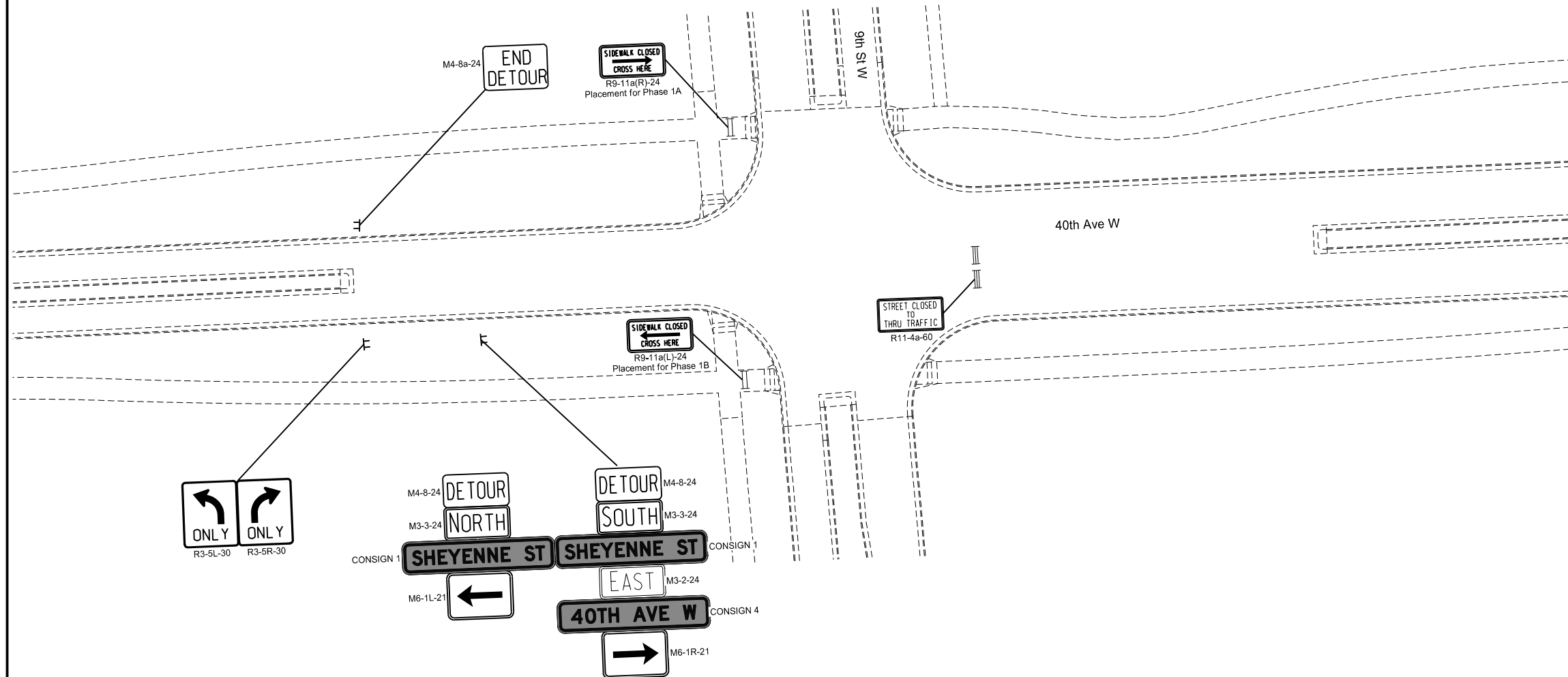
NOTE:
 1. Use Existing Sidewalk as South Temporary Pedestrian Crossing.
 2. Construct Utility Connections as shown.
 3. Construct Temporary Pedestrian Crossing Asphalt Path.

LEGEND			
	EXISTING ROADWAY		TEMPORARY PEDESTRIAN CROSSING: COMMERCIAL GRADE HOT MIX ASPHALT
	WORK ZONE AREA		TYPE III BARRICADE
	DELINEATOR DRUM		SIGN
	TUBULAR MARKER		TEMPORARY SAFETY FENCE
	PRECAST CONCRETE MED BARRIER		SIDEWALK BARRICADE



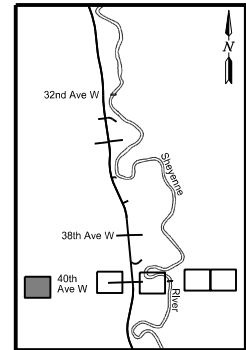
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Sheyenne Street
 Work Zone Traffic Control
 Phase 1
 Sta 522+00 to Sta 525+00 (PR17)



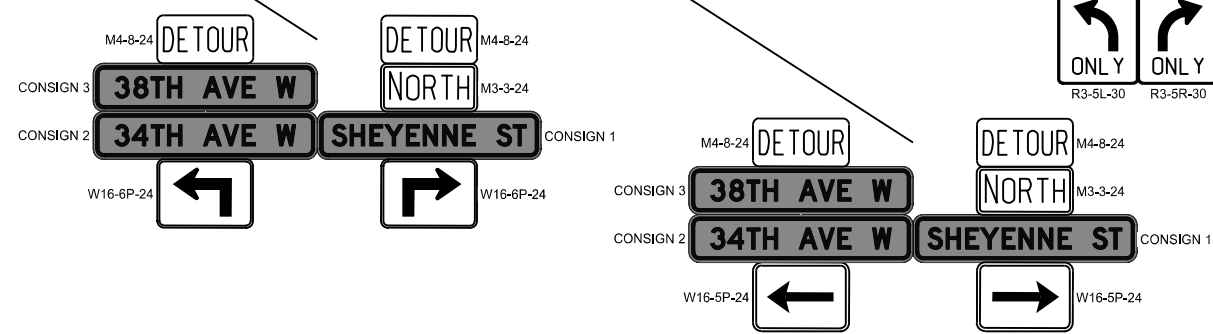
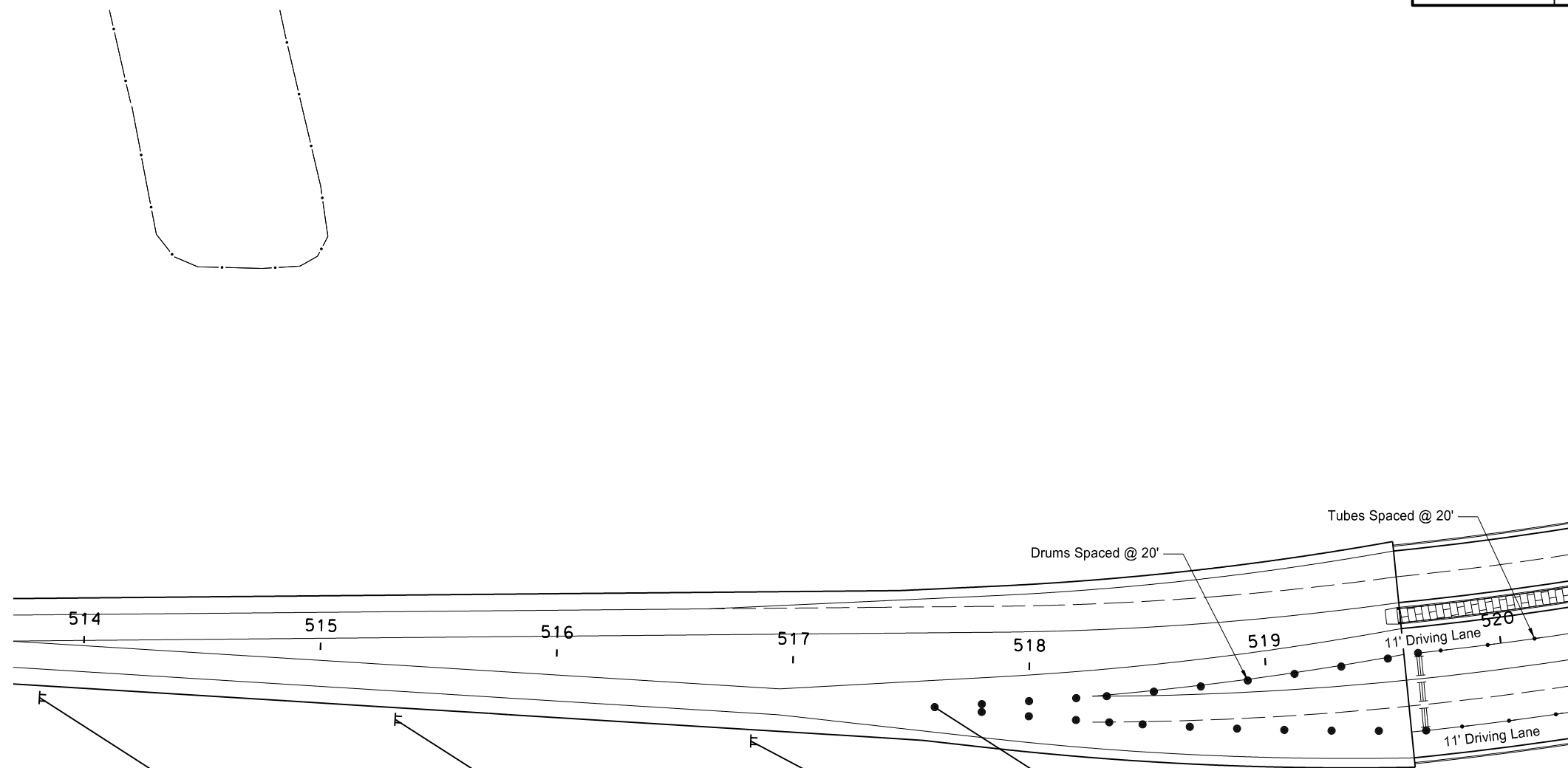
LEGEND

WORK ZONE AREA	TYPE III BARRICADE
DELINEATOR DRUM	SIGN
TUBULAR MARKER	SIDEWALK BARRICADE



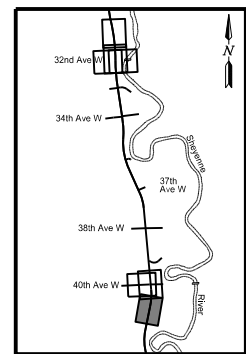
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Sheyene Street
 Work Zone Traffic Control
 Phase 1
 40th Ave



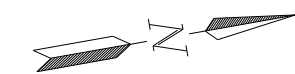
LEGEND

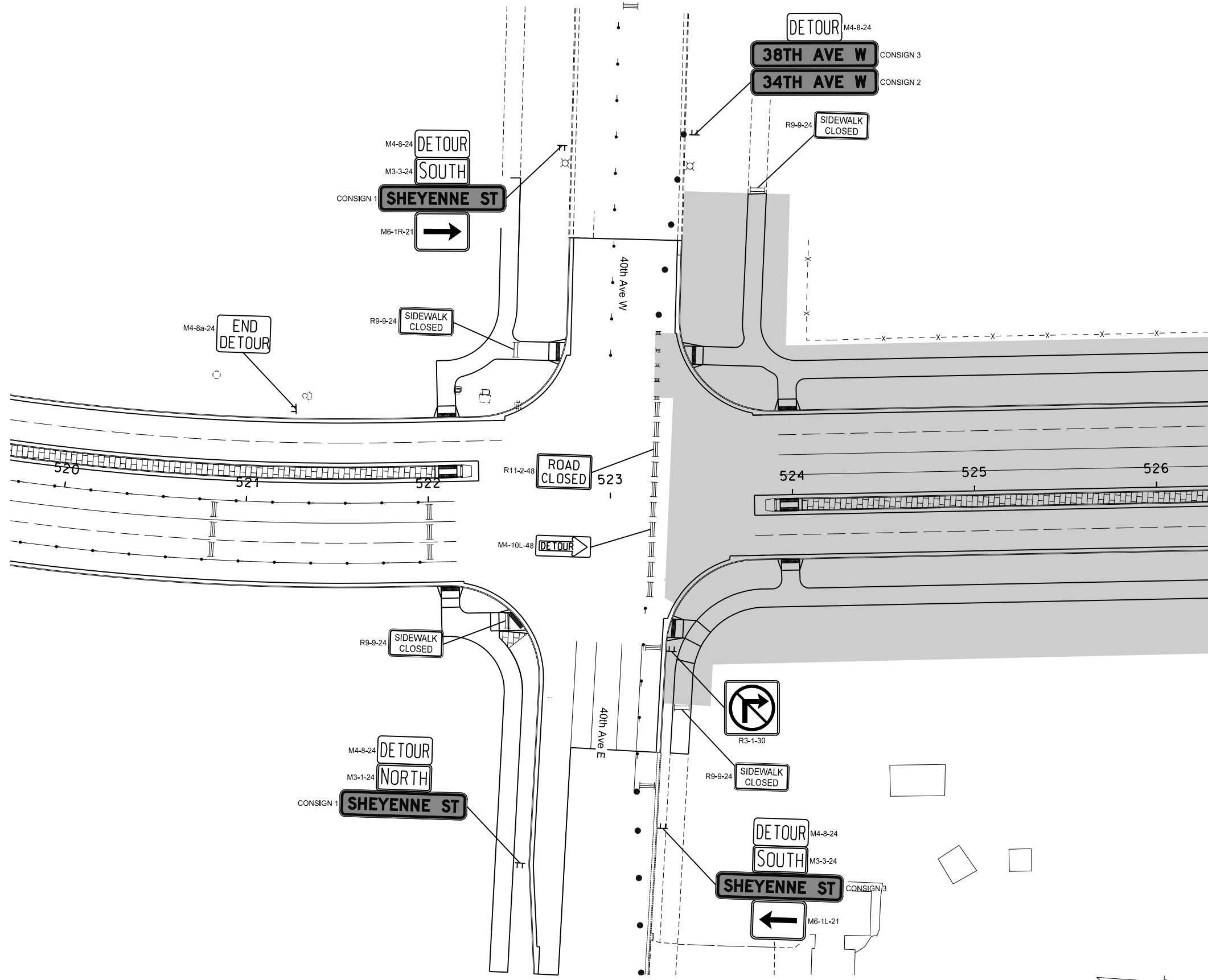
WORK ZONE AREA	TYPE III BARRICADE
DELINEATOR DRUM	SIGN
TUBULAR MARKER	SIDEWALK BARRICADE



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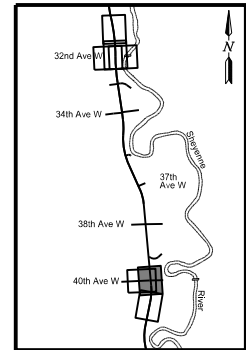
Sheyenne Street
 Work Zone Traffic Control
 Phase 2
 Sta 514+00 to Sta 520+00 (PR17)





LEGEND

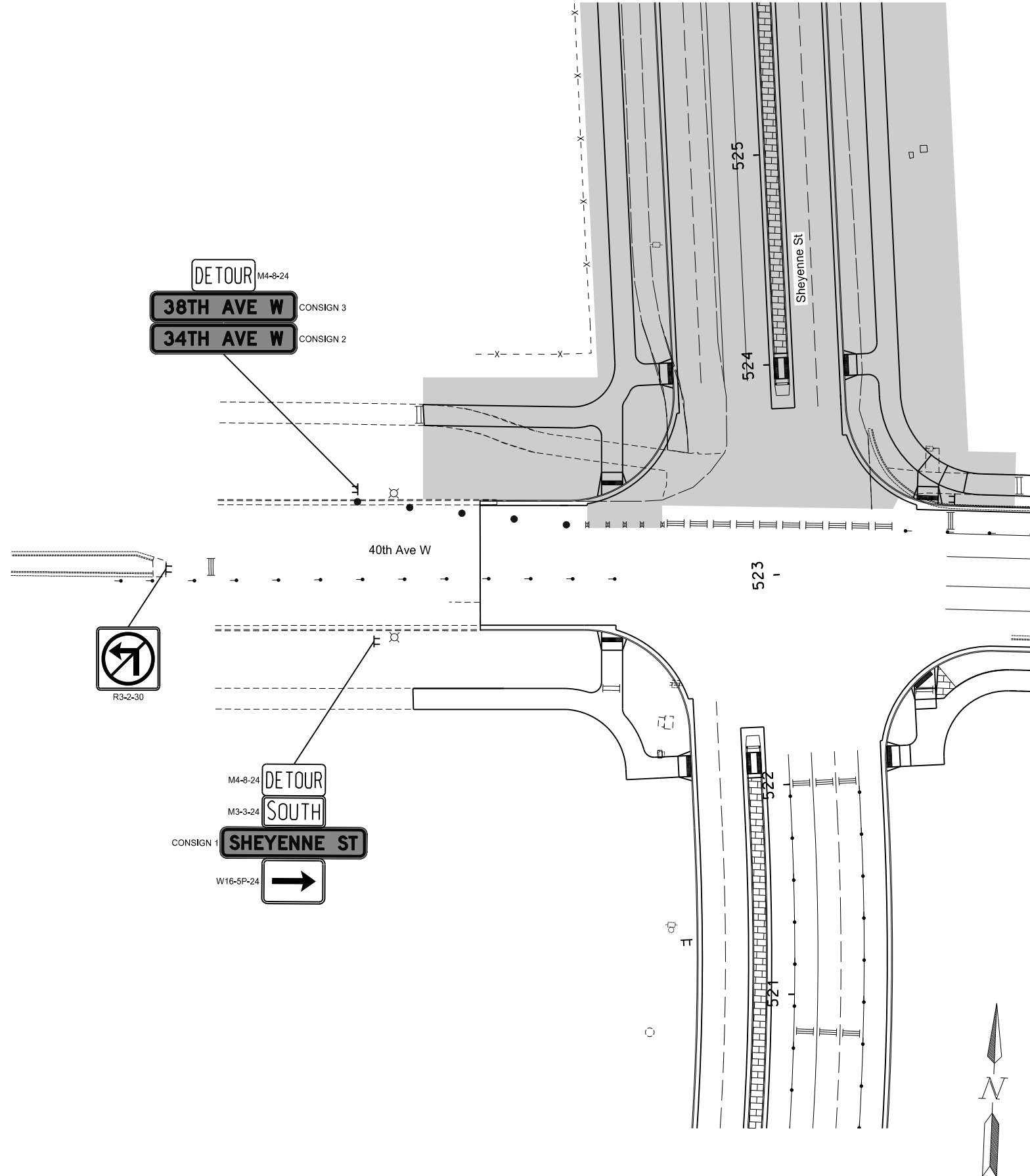
	WORK ZONE AREA		TYPE III BARRICADE
	DELINEATOR DRUM		SIGN
	TUBULAR MARKER		SIDEWALK BARRICADE



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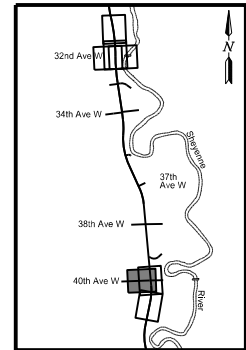
Sheyenne Street
 Work Zone Traffic Control
 Phase 2
 Sta 520+00 to Sta 526+00 (PR17)

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	100	17



LEGEND

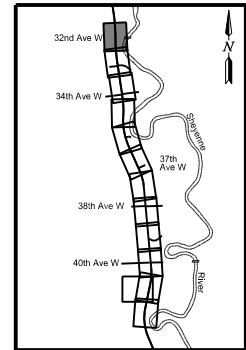
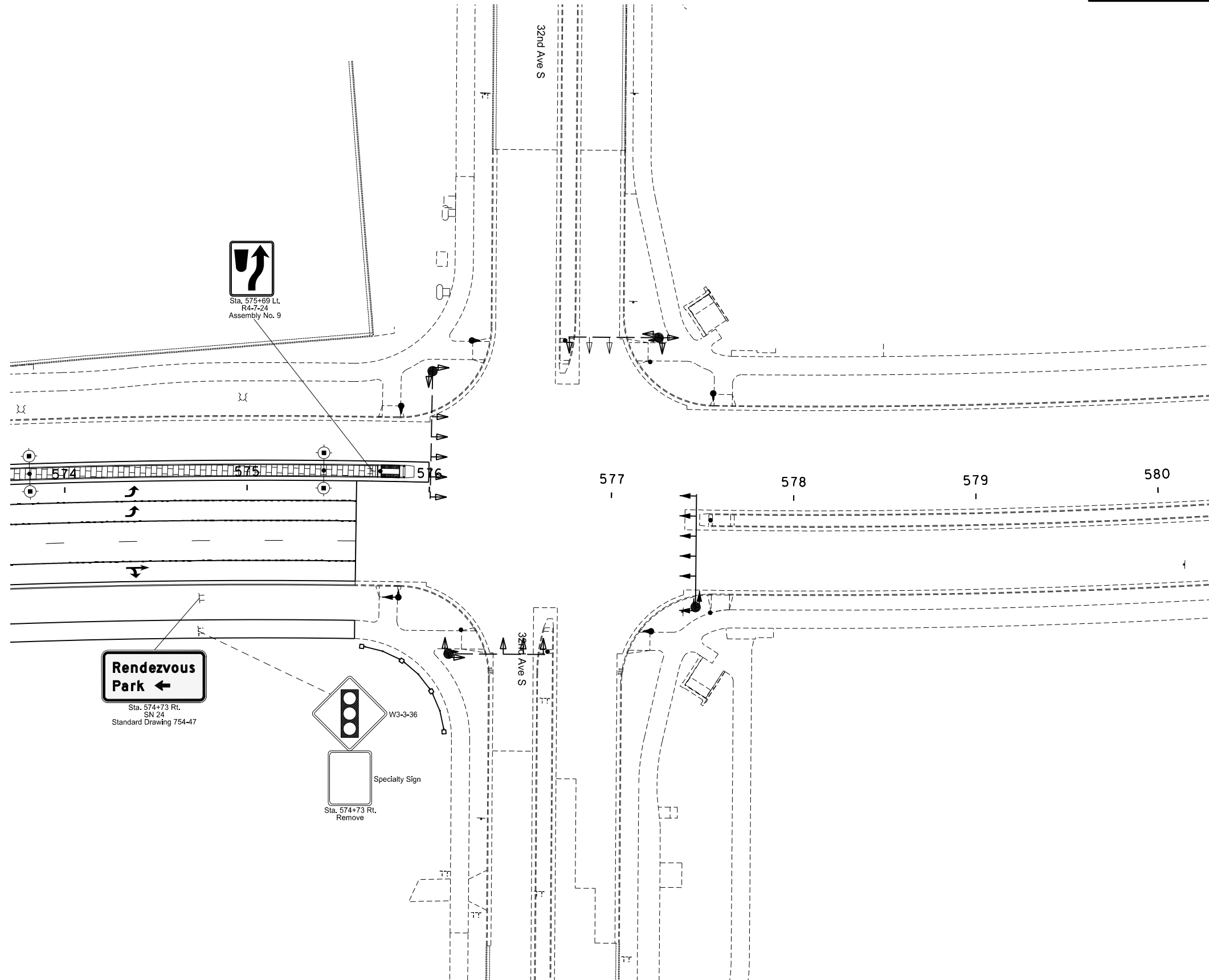
WORK ZONE AREA	TYPE III BARRICADE
DELINEATOR DRUM	SIGN
TUBULAR MARKER	SIDEWALK BARRICADE



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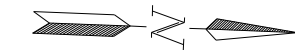
Sheyenne Street
 Work Zone Traffic Control
 Phase 2
 40th Ave

Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	110	14



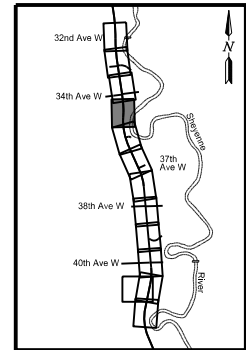
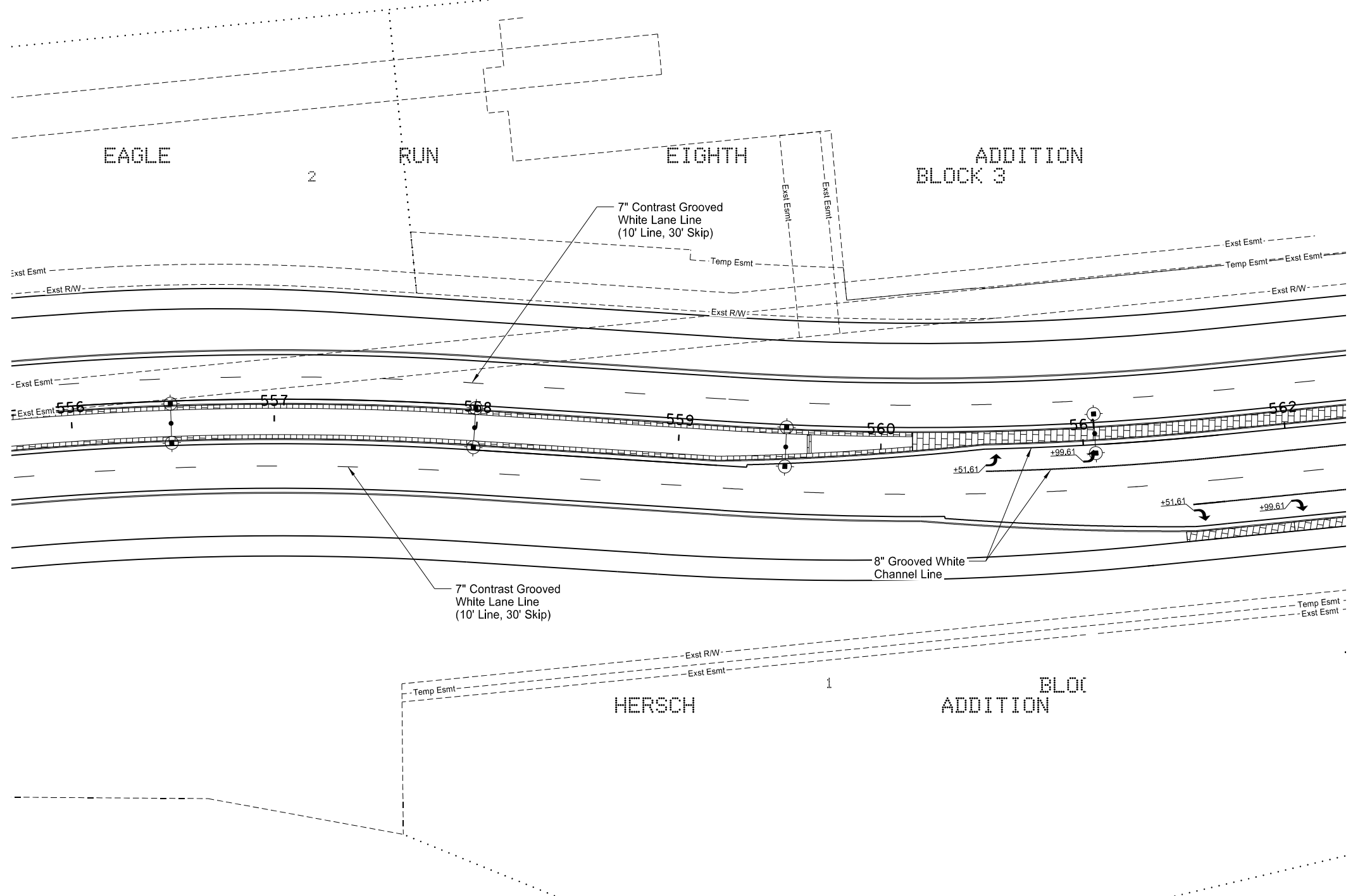
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Sheyenne Street
 Signing
 Sta 574+00 to Sta 580+00 (PR17)



Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	120	9

SPEC CODE	BID ITEM	QTY	UNIT
762 0122	PREFORMED PATTERNED PVTM MK-MESSAGE(GROOVED)		
	Left Turn Arrow (2)	32	SF
	Right Turn Arrow	16	SF
762 1309	PREFORMED PATTERNED PVTM MK 8IN LINE-GROOVED		
	White Channel Line	196	LF
762 1334	PREF PATT PVTM MK 7IN LINE CONTRAST-GROOVED		
	White Lane Line (10' Line, 30' Skip)	300	LF

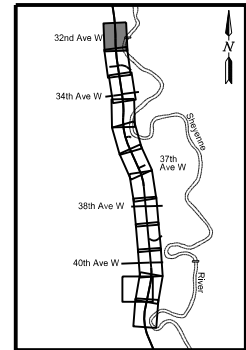
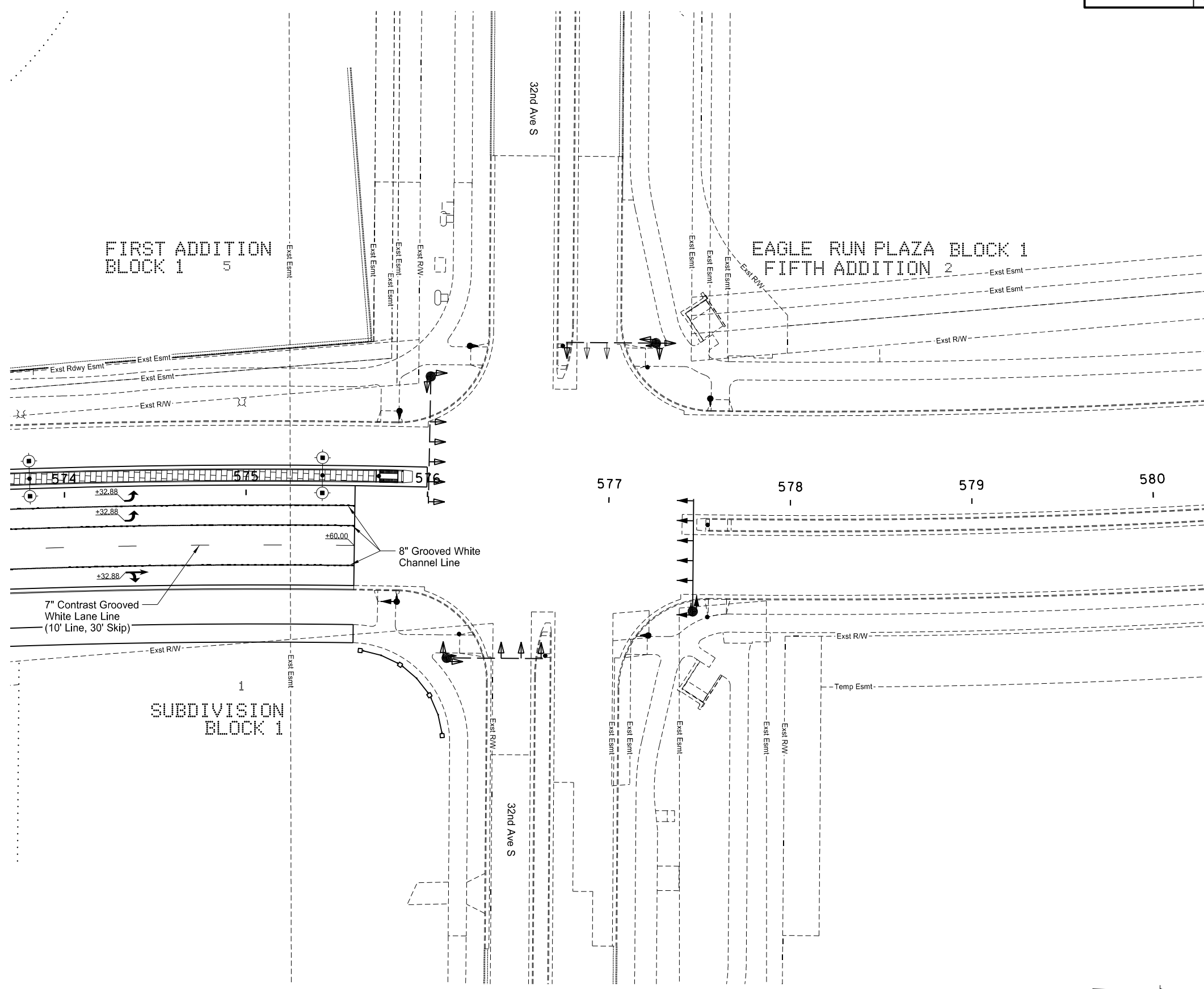


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Sheyenne Street
Pavement Marking
Sta 556+00 to Sta 562+00 (PR17)

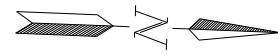
Revised	10/31/18	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	120	12

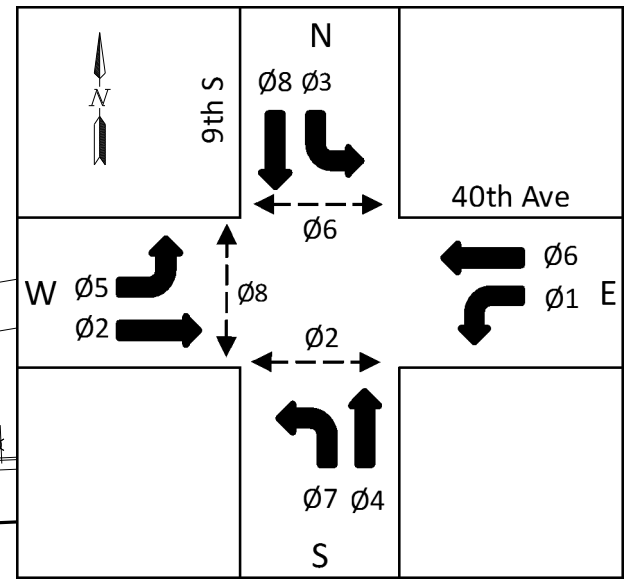
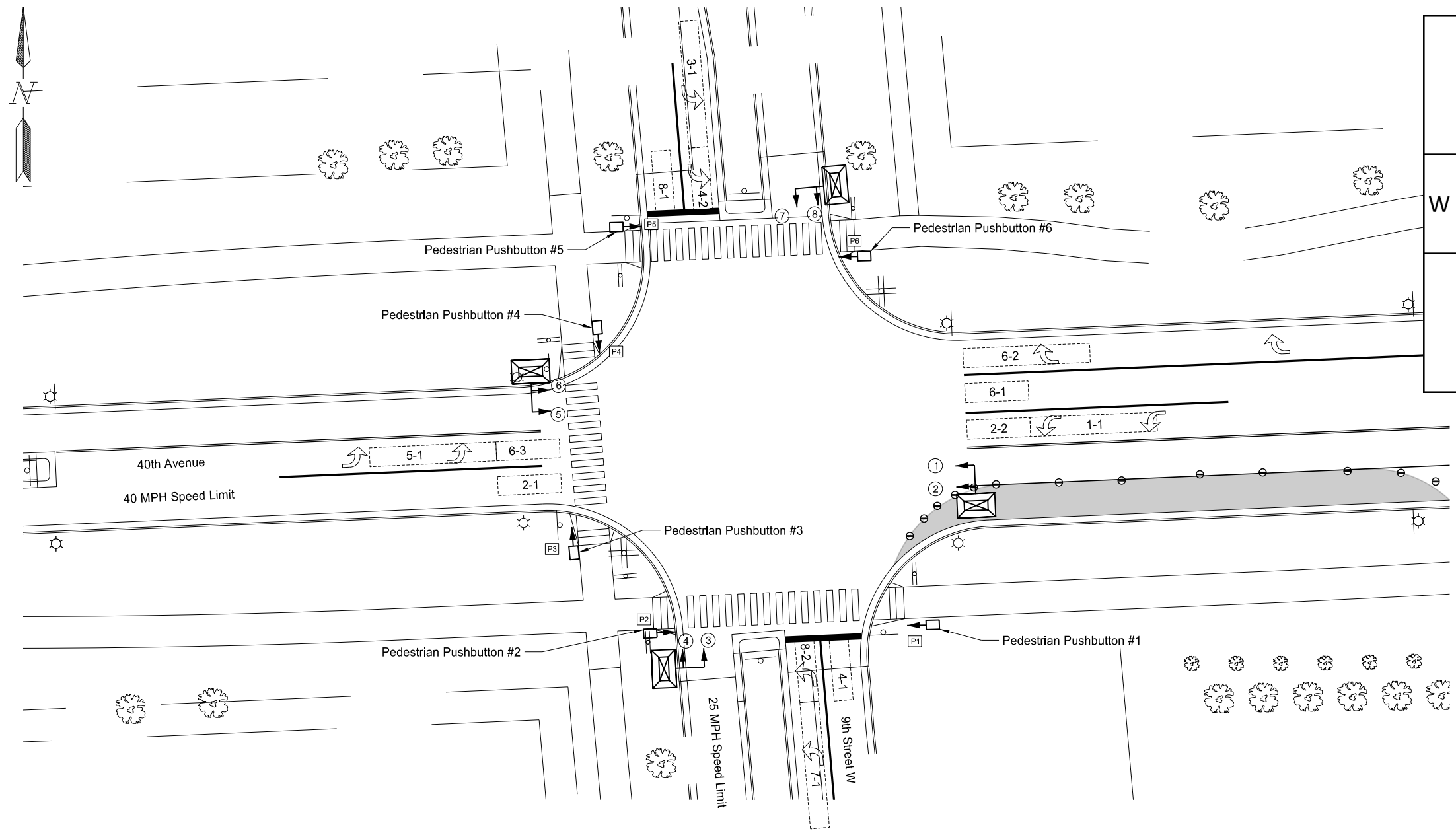
SPEC CODE	BID ITEM	QTY	UNIT
762 0122	PREFORMED PATTERNED PAVEMENT MESSAGE (GROOVED)		
	Left Turn Arrow (2)	32	SF
	Through Right	27	SF
762 1309	PREFORMED PATTERNED PAVEMENT MK 8IN LINE-GROOVED		
	White Channel Line	351	LF
762 1334	PREF PATT PAVEMENT MK 7IN LINE CONTRAST-GROOVED		
	White Lane Line (10' Line, 30' Skip)	40	LF



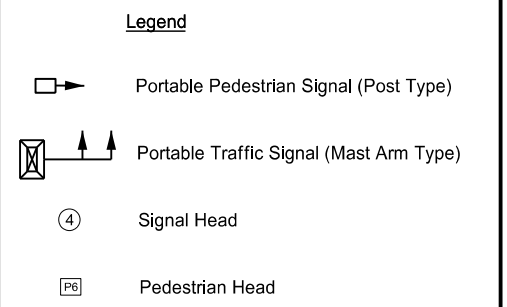
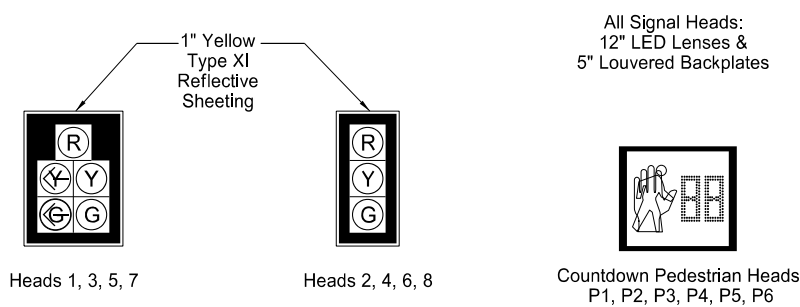
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Sheyenne Street
Pavement Marking
Sta 574+00 to Sta 580+00 (PR17)





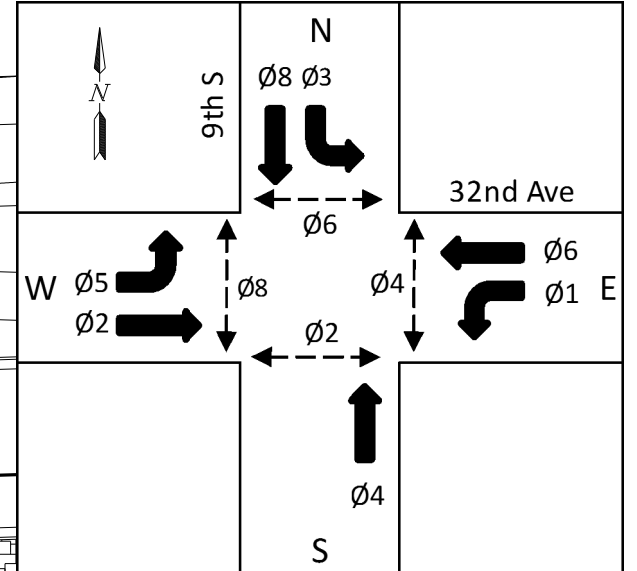
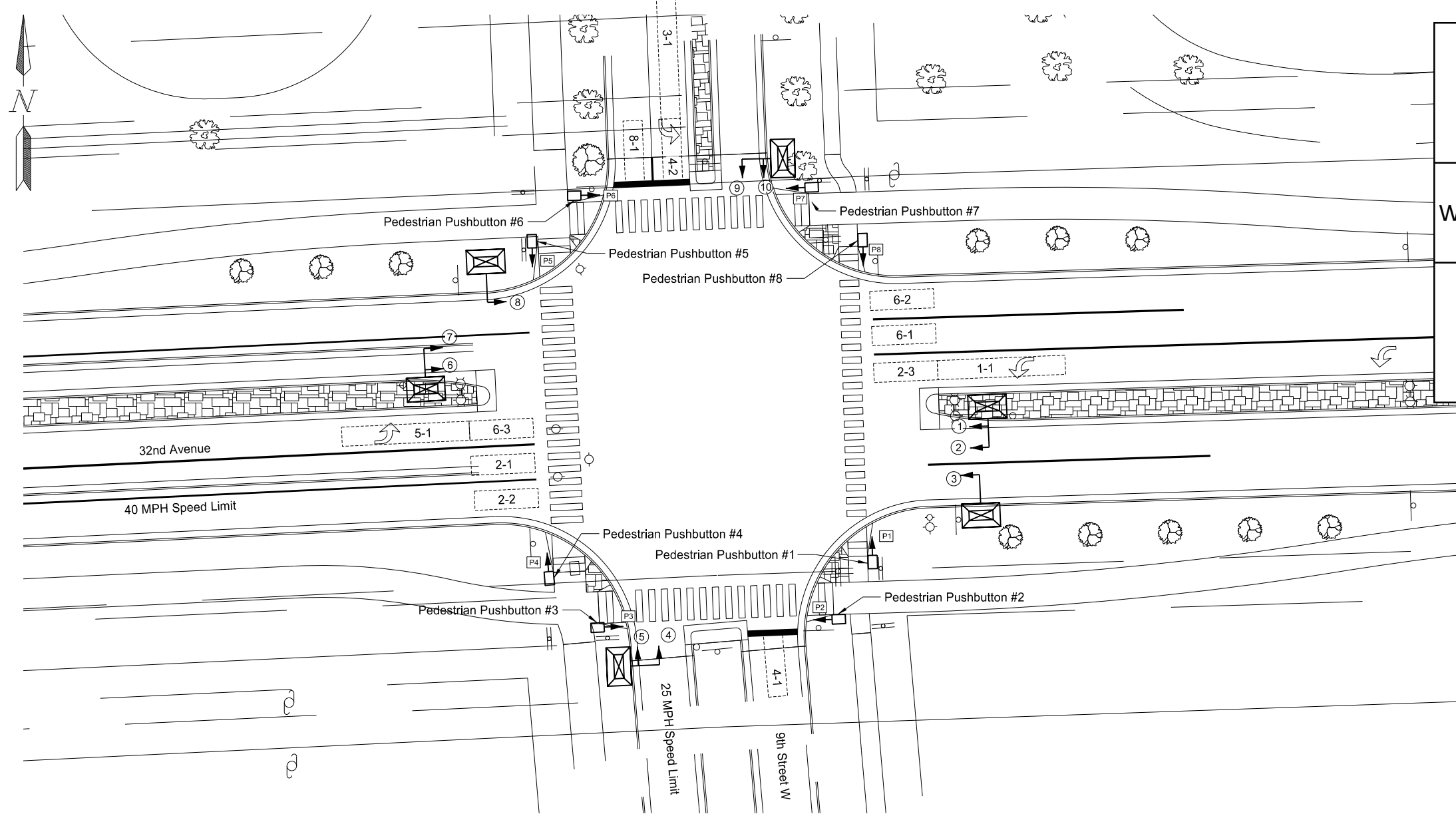
Phase-Number	Distance From Stop Bar (feet)	Length (feet)	Presence/Counting	Queue/Counting	Non-Locking Memory
1-1	20	40	X		X
2-1	0	20		X	X
2-2	0	20		X	X
3-1	20	40	X		X
4-1	0	20		X	X
4-2	0	20		X	X
5-1	20	40	X		X
6-1	0	20		X	X
6-2	0	40		X	X
6-3	0	20		X	X
7-1	20	40	X		X
8-1	0	20		X	X
8-2	0	20		X	X



Location	Pushbutton & Sign Location on Signal	Direction of Arrow on Sign
Pushbutton 1	North	Right
Pushbutton 2	North	Left
Pushbutton 3	East	Right
Pushbutton 4	West	Right
Pushbutton 5	South	Right
Pushbutton 6	North	Right

This document was originally issued and sealed by
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 PE-27433,
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Sheyenne Street
 Portable Signal Layout
 Interim Traffic Signal
 40th Avenue W / 9th Street W

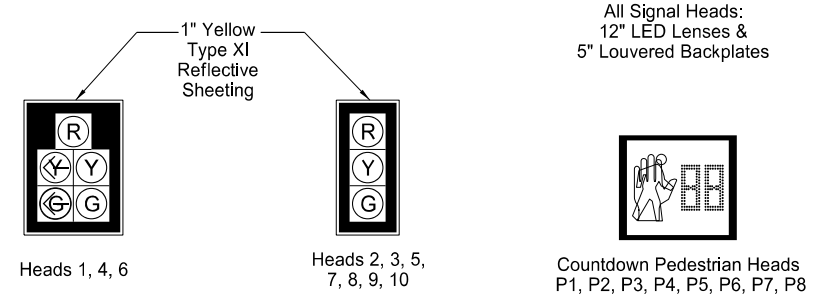


Phase-Number	Distance From Stop Bar (feet)	Length (feet)	Presence/Counting	Queue/Counting	Non-Locking Memory
1-1	20	40	X	X	X
2-1	0	20	X	X	X
2-2	0	20	X	X	X
2-3	0	20	X	X	X
3-1	20	40	X	X	X
4-1	0	20	X	X	X
4-2	0	20	X	X	X
5-1	20	40	X	X	X
6-1	0	20	X	X	X
6-2	0	40	X	X	X
6-3	0	20	X	X	X
8-1	0	20	X	X	X

Location	Pushbutton & Sign Location on Signal	Direction of Arrow on Sign
Pushbutton 1	West	Left
Pushbutton 2	North	Right
Pushbutton 3	North	Left
Pushbutton 4	East	Right
Pushbutton 5	East	Left
Pushbutton 6	South	Right
Pushbutton 7	South	Left
Pushbutton 8	West	Right

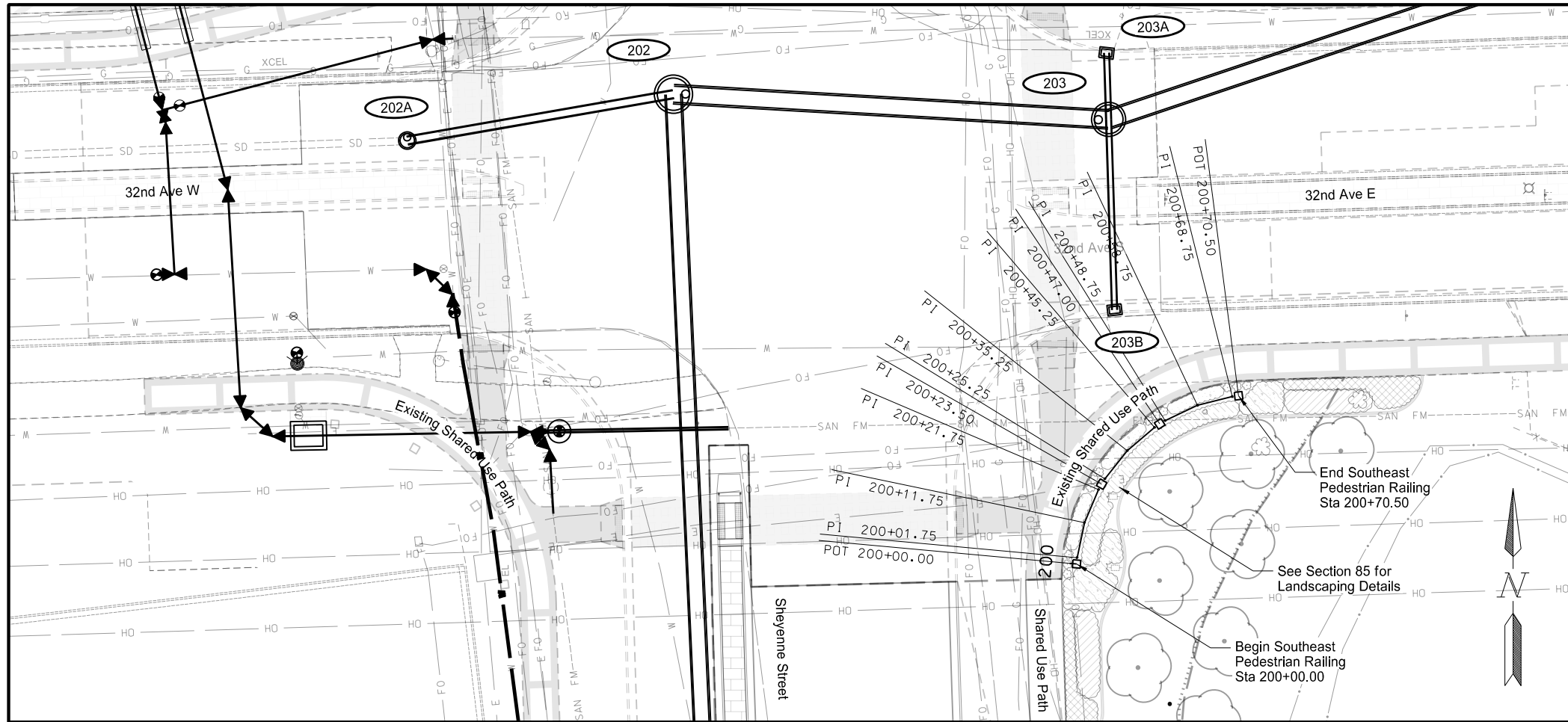
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Sheyenne Street
 Portable Signal Layout
 Interim Traffic Signal
 32nd Avenue W / 9th Street W



- Legend**
- Portable Pedestrian Signal (Post Type)
 - Portable Traffic Signal (Mast Arm Type)
 - Signal Head
 - Pedestrian Head

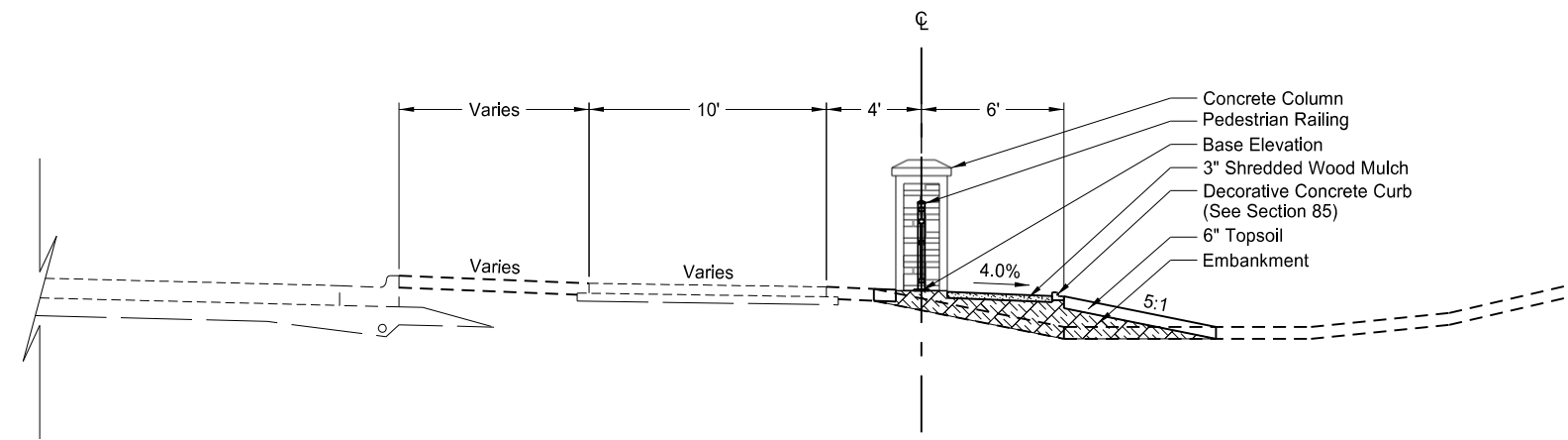




Revised	10/31/18	STATE	PROJECT NUMBER	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	170	1

SPEC CODE	BID ITEM	QTY	UNIT
624 0123	PEDESTRIAN RAILING Sta 200+00.00 to 200+70.50	71	LF

Concrete Column Footing Elevation	
Station	Base Elevation
200+00.00	905.71
200+23.50	906.08
200+47.00	905.60
200+70.50	905.02

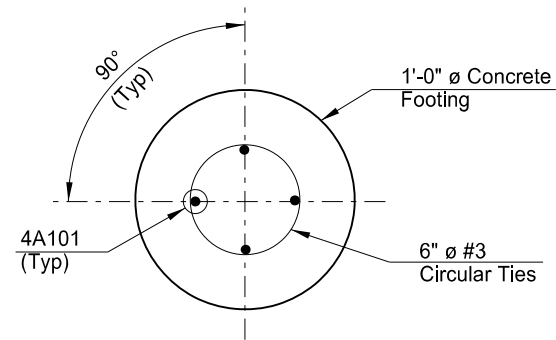


Southeast Decorative Fence (PRFENCE_SE)
Sta 200+00.00 to 200+70.50

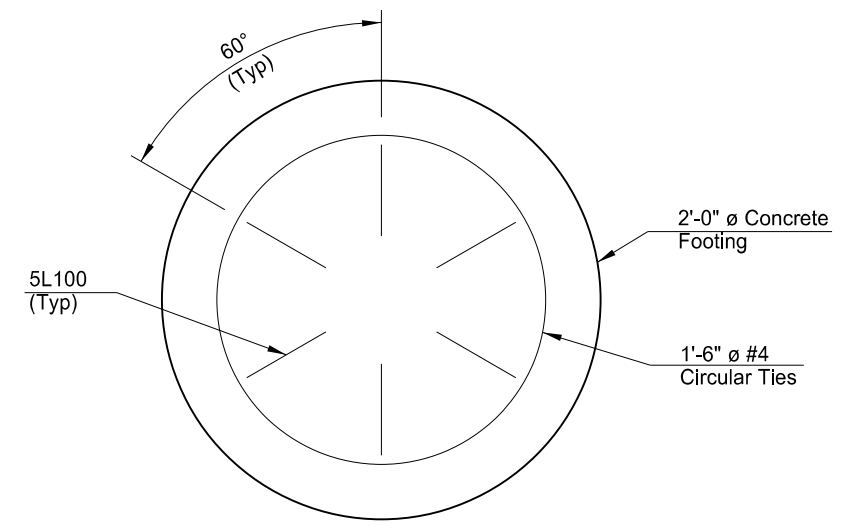
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SHEYENNE STREET
PEDESTRIAN RAILING
COLUMN AND RAILING LAYOUT

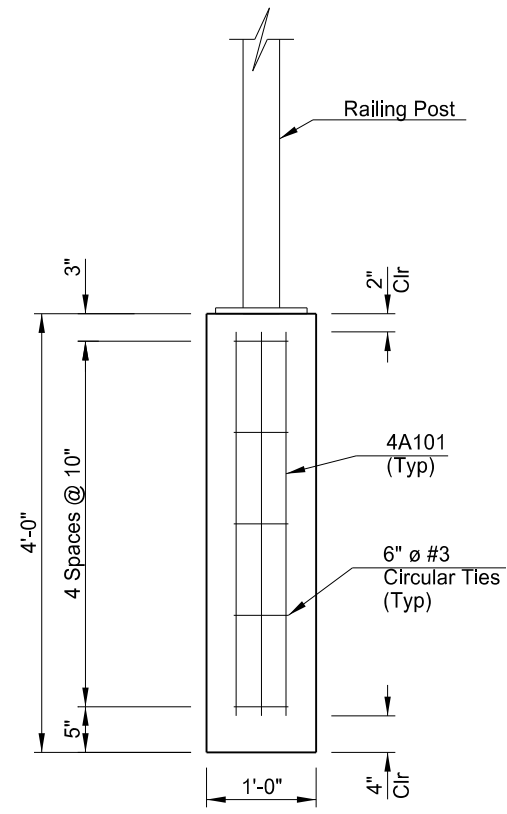
Revised	10/31/18	STATE	PROJECT NUMBER	SECTION NO.	SHEET NO.
		ND	SU-8-992(040)041	170	4



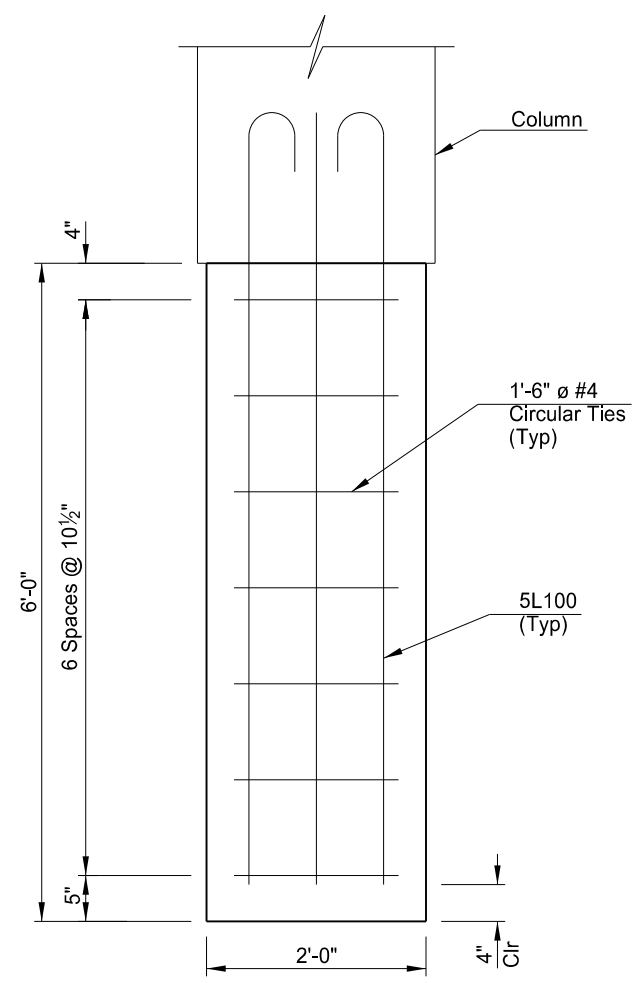
PLAN



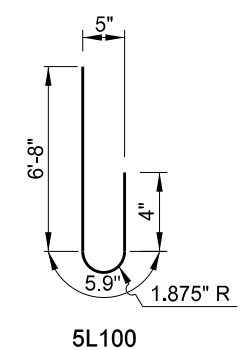
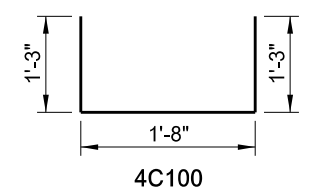
PLAN



ELEVATION POST FOOTING



ELEVATION COLUMN FOOTING



BAR LIST			
SIZE	MARK	NO.	LENGTH
5	A100	24	4'-4"
4	A101	36	3'-6"
4	C100	40	4'-2"
5	L100	24	7'-6"

ESTIMATED MATERIAL QUANTITIES	
REINFORCING STEEL (LBS)	CONCRETE (CY)
642	7.2

NOTE:
 Reinforcing dimensions shown are out to out.
 Estimated reinforcing steel quantity includes weight of circular ties.
 Include a 1'-0" lap splice for all circular ties.

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QUANTITIES	
PEDESTRIAN RAILING	71 LF

SHEYENNE STREET
 PEDESTRIAN RAILING
 FOUNDATION DETAILS