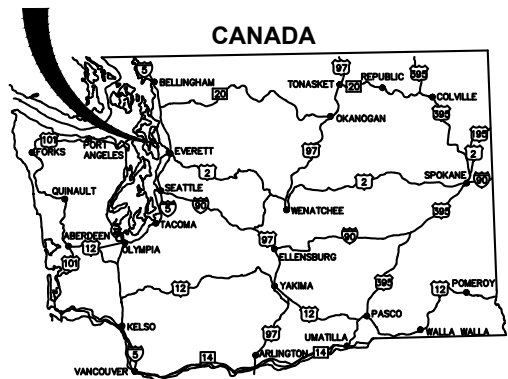


| U.S.B.I.A. REGION | RESERVATION | STATE | PROJ. NO. | SHEET No. | TOTAL |
|-------------------|-------------|-------|-----------|-----------|-------|
| NORTHWEST         | TULALIP     | WA    |           | 1         | 21    |

# TULALIP INDIAN RESERVATION

# CONTRACT PLANS PAVEMENT REHABILITATION PROJECTS 2021



KEY MAP OF WASHINGTON SHOWING LOCATION OF PROJECT



OREGON

## TULALIP INDIAN RESERVATION SNOHOMISH COUNTY

81ST ST NE (BIA ROUTE 1050)  
29TH DR NE (BIA ROUTE 1050)  
30TH DR NE (BIA ROUTE 1050)

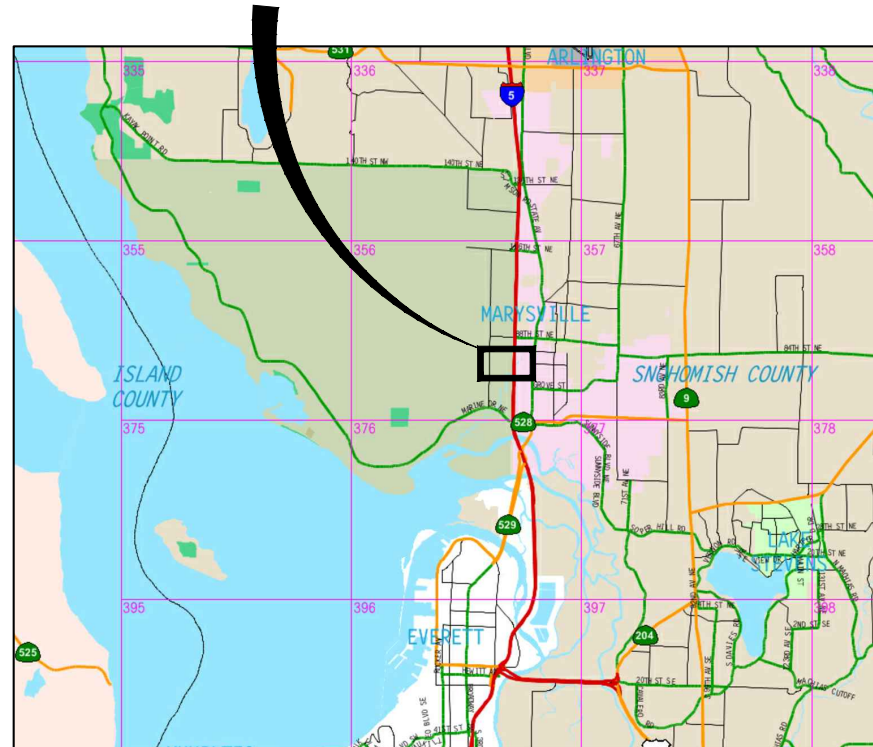
### DESIGN STANDARDS:

WSDOT DESIGN MANUAL 2021  
WSDOT STANDARD PLANS 2021  
SNOHOMISH COUNTY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS 2021

### STANDARD SPECIFICATIONS:

WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION 2022

## PROJECT LOCATION



### UTILITIES:

ZIPLY FIBER  
13293 SMOKEY POINT BLVD  
MARYSVILLE, WA 98271  
ATTN: TIM RENNICK  
OFFICE: (425) 263-4025  
CELL: (425) 210-0333

SALISH NETWORKS  
2601 88TH ST. NE  
QUIL CEDA VILLAGE, WA 98271  
ATTN: RICHARD BROWN  
OFFICE: (360) 716-3277

VERIZON  
OSP ENGINEERING  
PO BOX 1003  
EVERETT, WA 98200  
ATTN: TIM RENNICK  
OFFICE: (425) 327-8118

### OWNER:

THE TULALIP TRIBES  
6406 MARINE DR  
TULALIP, WA 98271  
ATTN: CHRISTINA PARKER  
CELL: (360) 913-4205  
OFFICE: (360) 716-5024

SNOHOMISH COUNTY PUBLIC UTILITIES DISTRICT (PUD)  
210 E DIVISION STREET  
ARLINGTON, WA 98223  
ATTN: KALLEN SHAUGNESSY-RANDALL  
OFFICE: (425) 783-4370

TULALIP TECHNOLOGY DATA SERVICES  
2601 88TH ST. NE  
QUIL CEDA VILLAGE, WA 98271  
ATTN: KEVIN JONES  
(360) 716-5150

TULALIP UTILITIES  
3015 MISSION BEACH RD  
TULALIP, WA 98271  
ATTN: MIKE LESLIE  
OFFICE: (360) 716-4840

### ENGINEER:

PARAMETRIX  
719 2ND AVE, #200  
SEATTLE, WA 98104  
ATTN: HAPPY LONGFELLOW  
OFFICE: (206) 394-3700

| INDEX TO DRAWINGS |         |   |
|-------------------|---------|---|
| DWG NO.           | SHT NO. | SHEET TITLE   |
| GENERAL           |         |   |
| 1                 | G1      | COVER SHEET   |
| 2                 | G2      | LEGEND AND ABBREVIATIONS  |
| 3                 | SV1     | SURVEY MAP AND HORIZONTAL CONTROL PLAN                          |
| 4                 | SV2     | SURVEY MAP AND HORIZONTAL CONTROL PLAN                          |
| 5                 | SV3     | SURVEY MAP AND HORIZONTAL CONTROL PLAN                          |
| 6                 | RS1     | ROADWAY SECTIONS  |
| 7                 | DM1     | DEMOLITION AND TESC PLAN  |
| 8                 | DM2     | DEMOLITION AND TESC PLAN  |
| 9                 | DM3     | DEMOLITION AND TESC PLAN  |
| 10                | DM4     | DEMOLITION AND TESC NOTES AND DETAILS                           |
| 11                | RD1     | ROADWAY AND STORM DRAINAGE PLAN & PROFILE                       |
| 12                | RD2     | ROADWAY AND STORM DRAINAGE PLAN & PROFILE                       |
| 13                | RD3     | ROADWAY AND STORM DRAINAGE PLAN & PROFILE                       |
| 14                | RD4     | ROADWAY AND STORM DRAINAGE PLAN & PROFILE                       |
| 15                | RD5     | CHAMBER SYSTEM PLAN AND SECTION                                 |
| 16                | SDD1    | STORM DRAINAGE DETAILS - CARTRIDGE STORMFILTER                  |
| 17                | SDD2    | STORM DRAINAGE DETAILS - CHAMBER SYSTEM TECHNICAL SPECIFICATION |
| 18                | SDD3    | STORM DRAINAGE DETAILS - CHAMBER SYSTEM                         |
| 19                | IL1     | ILLUMINATION SHEET  |
| 20                | IL2     | ILLUMINATION SHEET  |
| 21                | IL3     | ILLUMINATION SHEET  |



Know what's below.  
Call before you dig.

LAYOUT: G1 PATH: U:\PSC\Projects\Clients\1598-Tulalip Tribes\1598-140\_2021PmtRehabProjects\CADD\DWG\_81ST PLOTTED BY: SuelDimi DATE: Tuesday, April 26, 2022 2:23:48 PM

| REVISIONS | DATE | BY | DESIGNED                  |
|-----------|------|----|---------------------------|
|           |      |    | D. SUSLIKOV               |
|           |      |    | DRAWN<br>D. SUSLIKOV      |
|           |      |    | CHECKED<br>A. FISHER      |
|           |      |    | APPROVED<br>H. LONGFELLOW |

|  |
|--|
| <b>ONE INCH AT FULL SCALE,<br/>IF NOT, SCALE ACCORDINGLY</b> |
| FILE NAME<br>PU5541598140-81st-G1                            |
| JOB No.<br>554-1598-140                                      |
| DATE<br>APRIL 2022   |



4/26/22

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P 253.604.6600  
WWW.PARAMETRIX.COM

PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
81ST ST NE  
THE TULALIP TRIBES  
TULALIP, WASHINGTON

**COVER SHEET**

DRAWING NO.  
1 OF 21  
**G1**

LAYOUT: G2    PATH: U:\PSC\Projects\Clients\1598-Tulalip Tribes\1598-140\_2021PavRehab\Projects\995\Sec\CADD\DWG\81ST    PLOTTED BY: SuelDmi    DATE: Tuesday, April 26, 2022 2:24:51 PM

**LEGEND**

| DESCRIPTION          | PROPOSED | EXISTING |
|----------------------|----------|----------|
| ALIGNMENT CENTERLINE | ---      | ---      |
| MAJOR CONTOUR        | =====    | -----    |
| MINOR CONTOUR        | -----    | -----    |
| CHAINLINK FENCE      | -----    | -----    |
| EDGE OF ASPHALT      | =====    | -----    |
| CABLE TV OVERHEAD    | -----    | -----    |
| FIBER OPTIC LOCATES  | -----    | -----    |
| STORM DRAIN          | =====    | -----    |
| SEWER                | -----    | -----    |
| OVERHEAD POWER LINE  | -----    | -----    |
| POWER                | -----    | -----    |
| FACE OF CURB         | =====    | -----    |
| BACK OF CURB         | =====    | -----    |
| CONCRETE             | -----    | -----    |

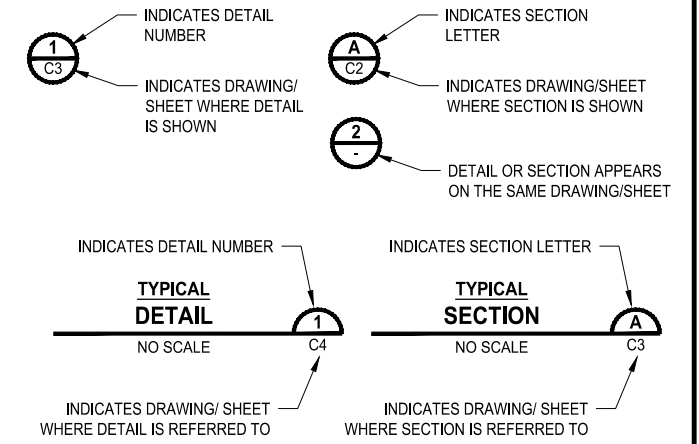
**LEGEND**

| DESCRIPTION            | PROPOSED | EXISTING |
|------------------------|----------|----------|
| FOUND CASED MONUMENT   | ■        | ⊗        |
| FOUND REBAR AND CAP    | ■        | ⊗        |
| SET PK , CONTROL POINT | ■        | ⊗        |
| CATCH BASIN            | ■        | ⊗        |
| CATCH BASIN SOLID LID  | ■        | ⊗        |
| MANHOLE SEWER          | ■        | ⊗        |
| FIRE HYDRANT           | ●        | ⊗        |
| WATER METER            | ●        | ⊗        |
| WATER VALVE            | ●        | ⊗        |
| STREET LIGHT POLE      | ●        | ⊗        |
| POWER POLE             | ●        | ⊗        |
| CABLE TV JUNCTION BOX  | ●        | ⊗        |
| MAIL BOX               | ●        | ⊗        |
| BOLLARD                | ●        | ⊗        |
| SIGN                   | ●        | ⊗        |
| DECIDUOUS TREE         | ●        | ⊗        |
| CONIFER TREE           | ●        | ⊗        |

**ABBREVIATIONS**

|       |   |
|-------|---|
| AP    | ANGLE POINT                                   |
| ASPH  | ASPHALT                                       |
| AVE   | AVENUE  |
| BVC   | BEGIN VERTICAL CURVE                          |
| CB    | CATCH BASIN                                   |
| CEM   | CEMENT  |
| CL    | CENTERLINE                                    |
| CND   | CONDUIT                                       |
| CO    | COUNTY, CLEANOUT                              |
| CONC  | CONCRETE                                      |
| CONST | CONSTRUCT, CONSTRUCTION                       |
| CSBC  | CRUSHED SURFACING BASE COURSE                 |
| DEMO  | DEMOLITION                                    |
| DET   | DETAIL  |
| DIA   | DIAMETER                                      |
| DWG   | DRAWING                                       |
| E     | EAST, EASTING                                 |
| EA    | EACH  |
| EC    | END OF CURVE                                  |
| EL    | ELEVATION                                     |
| ENGR  | ENGINEER                                      |
| EOP   | EDGE OF PAVEMENT                              |
| EVC   | END VERTICAL CURVE                            |
| EXIST | EXISTING                                      |
| FG    | FINISH GRADE                                  |
| FH    | FIRE HYDRANT                                  |
| FL    | FLOW LINE                                     |
| FM    | FORCE MAIN                                    |
| FT    | FEET, FOOT                                    |
| G     | GAS   |
| GB    | GRADE BREAK                                   |
| GV    | GATE VALVE                                    |
| HORIZ | HORIZONTAL                                    |
| HP    | HIGH POINT                                    |
| IE    | INVERT ELEVATION                              |
| IN    | INCH  |
| INCL  | INCLUDE, INCLUDING                            |
| LP    | LOW POINT                                     |
| ME    | MATCH EXISTING                                |
| MH    | MANHOLE                                       |
| MISC  | MISCELLANEOUS                                 |
| MON   | MONUMENT                                      |
| MIN   | MINIMUM                                       |
| N     | NORTH, NORTHING                               |
| NTS   | NOT STEEPER THAN                              |
| P     | POWER   |
| PC    | POINT OF CURVE                                |
| PCC   | PORTLAND CEMENT CONCRETE                      |
| PERF  | PERFORATE, PERFORATED                         |
| PI    | POINT OF INTERSECTION, PRESSURE INDICATOR     |
| PT    | POINT OF TANGENCY, POINT                      |
| PVI   | POINT OF VERTICAL INTERSECTION                |
| R     | RADIUS  |
| RD    | ROAD  |
| ROW   | RIGHT OF WAY                                  |
| RPM   | RAISED PAVEMENT MARKER                        |
| SD    | STORM DRAIN                                   |
| SDMH  | STORM DRAIN MANHOLE                           |
| SPEC  | SPECIFICATION                                 |
| SS    | SANITARY SEWER                                |
| SSMH  | SANITARY SEWER MANHOLE                        |
| T     | TELEPHONE                                     |
| TEL   | TELEPHONE                                     |
| TOC   | TOP OF CURB                                   |
| TYP   | TYPICAL                                       |
| VAR   | VARIES  |
| VC    | VERTICAL CURVE, VITRIFIED CLAY                |
| W     | WATER, WEST                                   |
| WSDOT | WASHINGTON STATE DEPARTMENT OF TRANSPORTATION |

**DETAIL AND SECTION DESIGNATION**



| REVISIONS | DATE | BY | DESIGNED               |
|-----------|------|----|------------------------|
|           |      |    | D. SUSLIKOV            |
|           |      |    | DRAWN D. SUSLIKOV      |
|           |      |    | CHECKED A. FISHER      |
|           |      |    | APPROVED H. LONGFELLOW |

**ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY**  
 FILE NAME: PU5541598140-81st-G2  
 JOB No: 554-1598-140  
 DATE: APRIL 2022



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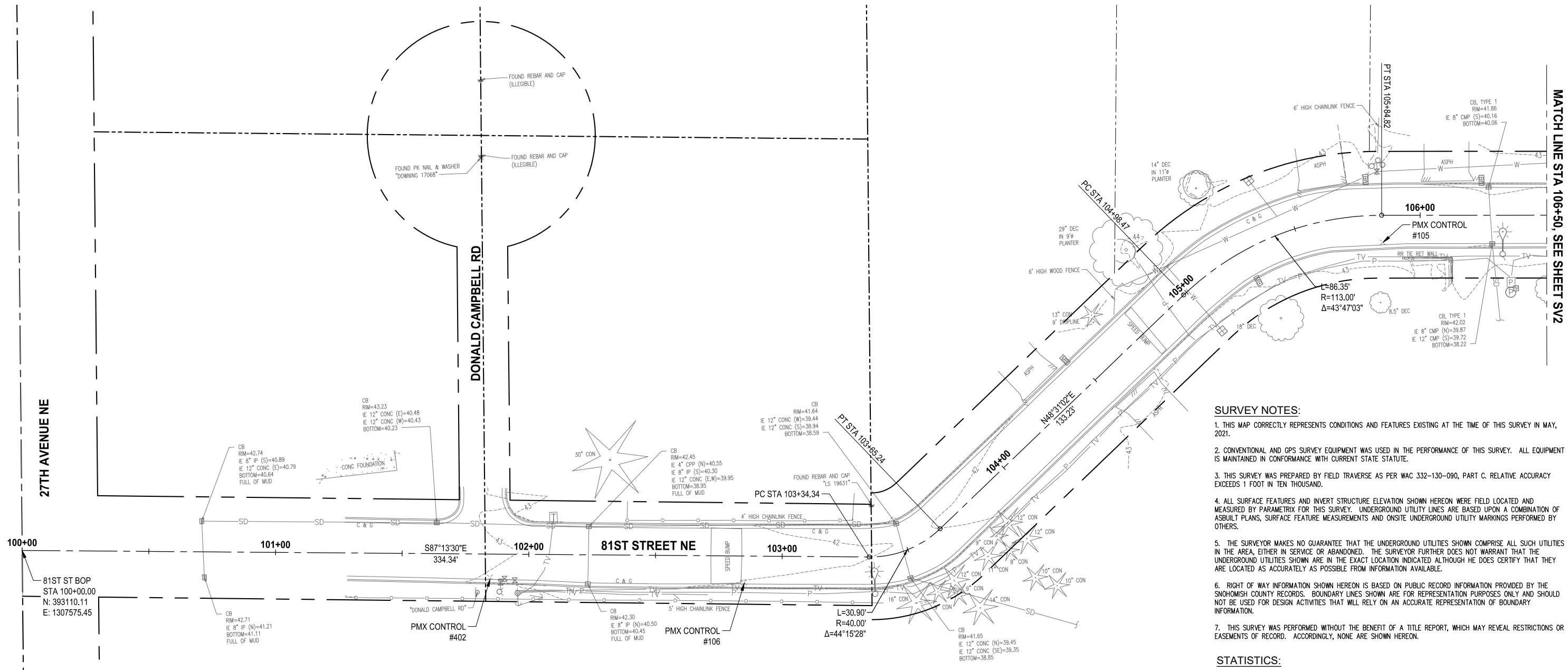
PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
**81ST ST NE**  
**THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**LEGEND & ABBREVIATIONS**

DRAWING NO.  
 2 OF 21  
**G2**



PATH: U:\P50\Projects\Clients\1598-Tulalip Tribes\1598-140-2021\pm\H\Rehab\Projects\995\cadd\DWG\81ST LAYOUT: SV1



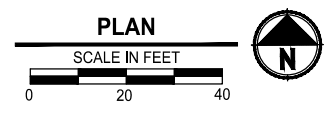
- SURVEY NOTES:**
1. THIS MAP CORRECTLY REPRESENTS CONDITIONS AND FEATURES EXISTING AT THE TIME OF THIS SURVEY IN MAY, 2021.
  2. CONVENTIONAL AND GPS SURVEY EQUIPMENT WAS USED IN THE PERFORMANCE OF THIS SURVEY. ALL EQUIPMENT IS MAINTAINED IN CONFORMANCE WITH CURRENT STATE STATUTE.
  3. THIS SURVEY WAS PREPARED BY FIELD TRAVERSE AS PER WAC 332-130-090, PART C. RELATIVE ACCURACY EXCEEDS 1 FOOT IN TEN THOUSAND.
  4. ALL SURFACE FEATURES AND INVERT STRUCTURE ELEVATION SHOWN HEREON WERE FIELD LOCATED AND MEASURED BY PARAMETRIX FOR THIS SURVEY. UNDERGROUND UTILITY LINES ARE BASED UPON A COMBINATION OF ASBUILT PLANS, SURFACE FEATURE MEASUREMENTS AND ONSITE UNDERGROUND UTILITY MARKINGS PERFORMED BY OTHERS.
  5. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.
  6. RIGHT OF WAY INFORMATION SHOWN HEREON IS BASED ON PUBLIC RECORD INFORMATION PROVIDED BY THE SNOHOMISH COUNTY RECORDS. BOUNDARY LINES SHOWN ARE FOR REPRESENTATION PURPOSES ONLY AND SHOULD NOT BE USED FOR DESIGN ACTIVITIES THAT WILL RELY ON AN ACCURATE REPRESENTATION OF BOUNDARY INFORMATION.
  7. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH MAY REVEAL RESTRICTIONS OR EASEMENTS OF RECORD. ACCORDINGLY, NONE ARE SHOWN HEREON.

**STATISTICS:**  
 EQUIPMENT: TRIMBLE R10 GPS AND TRIMBLE S7 ROBOTIC TOTAL STATION  
 METHODOLOGY: FIELD TRAVERSE AND GPS.  
 MEETS OR EXCEEDS SURVEY STANDARD AS PER:  
 WAC 332-130-050  
 WAC 332-130-090  
 WAC 332-130-100  
 ALL SURVEY WORK OCCURRED IN MAY OF 2021.

**HORIZONTAL DATUM (WSRN):**  
 HORIZONTAL DATUM FOR THIS SURVEY IS NAD 1983(11), WASHINGTON STATE PLANE NORTH ZONE COORDINATE SYSTEM, U.S. SURVEY FEET, BASED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN) WITH VERIFICATION TIES TO THE FOLLOWING MONUMENT PUBLISHED BY WSDOT

**VERTICAL DATUM (WSRN):**  
 POINT DESIGNATION: QUILCEDA  
 NORTHING: 388056.032  
 EASTING: 1307665.380

**VERTICAL DATUM (WSRN):**  
 VERTICAL DATUM FOR THIS SURVEY IS NAVD 88 BASED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN) WITH VERIFICATION TIES TO THE FOLLOWING MONUMENT PUBLISHED BY WSDOT  
 POINT DESIGNATION: QUILCEDA  
 ELEVATION: 19.997



| PARAMETRIX CONTROL TABLE |           |            |           |             |
|--------------------------|-----------|------------|-----------|-------------|
| POINT NO.                | NORTHING  | EASTING    | ELEVATION | DESCRIPTION |
| 105                      | 393209.74 | 1308116.98 | 42.27     | SET PK      |
| 106                      | 393085.85 | 1307859.64 | 42.01     | SET PK      |
| 402                      | 393091.94 | 1307759.52 | 42.89     | SET PK      |

NOTE: SEE SHEETS SV2 AND SV3 FOR ADDITIONAL CONTROL POINTS

MATCH LINE STA 106+50, SEE SHEET SV2

| REVISIONS | DATE | BY | DESIGNED      |
|-----------|------|----|---------------|
|           |      |    | D. SUSLIKOV   |
|           |      |    | D. SUSLIKOV   |
|           |      |    | A. FISHER     |
|           |      |    | H. LONGFELLOW |

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY  
 FILE NAME: PU5541598140-81st-SV  
 JOB No: 554-1598-140  
 DATE: APRIL 2022



04/26/2022

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PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
 81ST ST NE  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

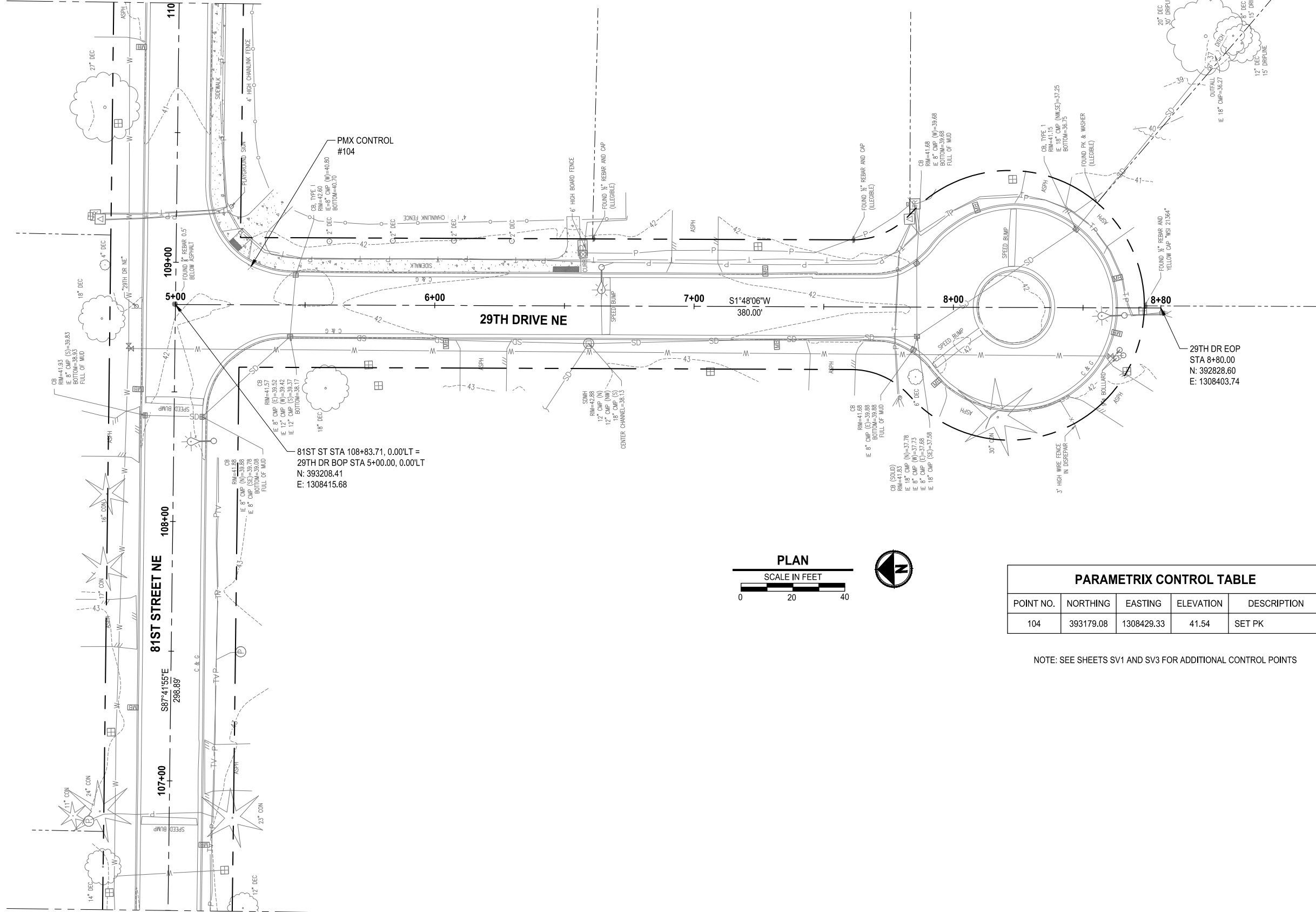
**SURVEY MAP**  
**AND HORIZONTAL CONTROL PLAN**

DRAWING NO.  
 3 OF 21  
**SV1**



PATH: U:\PSO\Projects\Clients\1598-Tulalip Tribes\554-1598-140-2021PmHRehab\Projects\995\sv2\CADD\DWG\81ST\_PLOTTED BY: Suslikov, D. DATE: Tuesday, April 26, 2022 2:26:55 PM LAYOUT: SV2

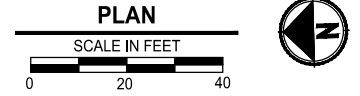
MATCH LINE STA 110+00, SEE SHEET SV3



MATCH LINE STA 106+50, SEE SHEET SV1

81ST ST STA 108+83.71, 0.00'LT =  
29TH DR BOP STA 5+00.00, 0.00'LT  
N: 393208.41  
E: 1308415.68

29TH DR EOP  
STA 8+80.00  
N: 392828.60  
E: 1308403.74

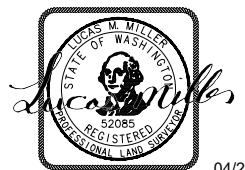


| PARAMETRIX CONTROL TABLE |           |            |           |             |
|--------------------------|-----------|------------|-----------|-------------|
| POINT NO.                | NORTHING  | EASTING    | ELEVATION | DESCRIPTION |
| 104                      | 393179.08 | 1308429.33 | 41.54     | SET PK      |

NOTE: SEE SHEETS SV1 AND SV3 FOR ADDITIONAL CONTROL POINTS

| REVISIONS | DATE | BY | DESIGNED      |
|-----------|------|----|---------------|
|           |      |    | D. SUSLIKOV   |
|           |      |    | D. SUSLIKOV   |
|           |      |    | A. FISHER     |
|           |      |    | H. LONGFELLOW |

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY  
FILE NAME  
PU5541598140-81st-SV  
JOB No.  
554-1598-140  
DATE  
APRIL 2022



04/26/2022

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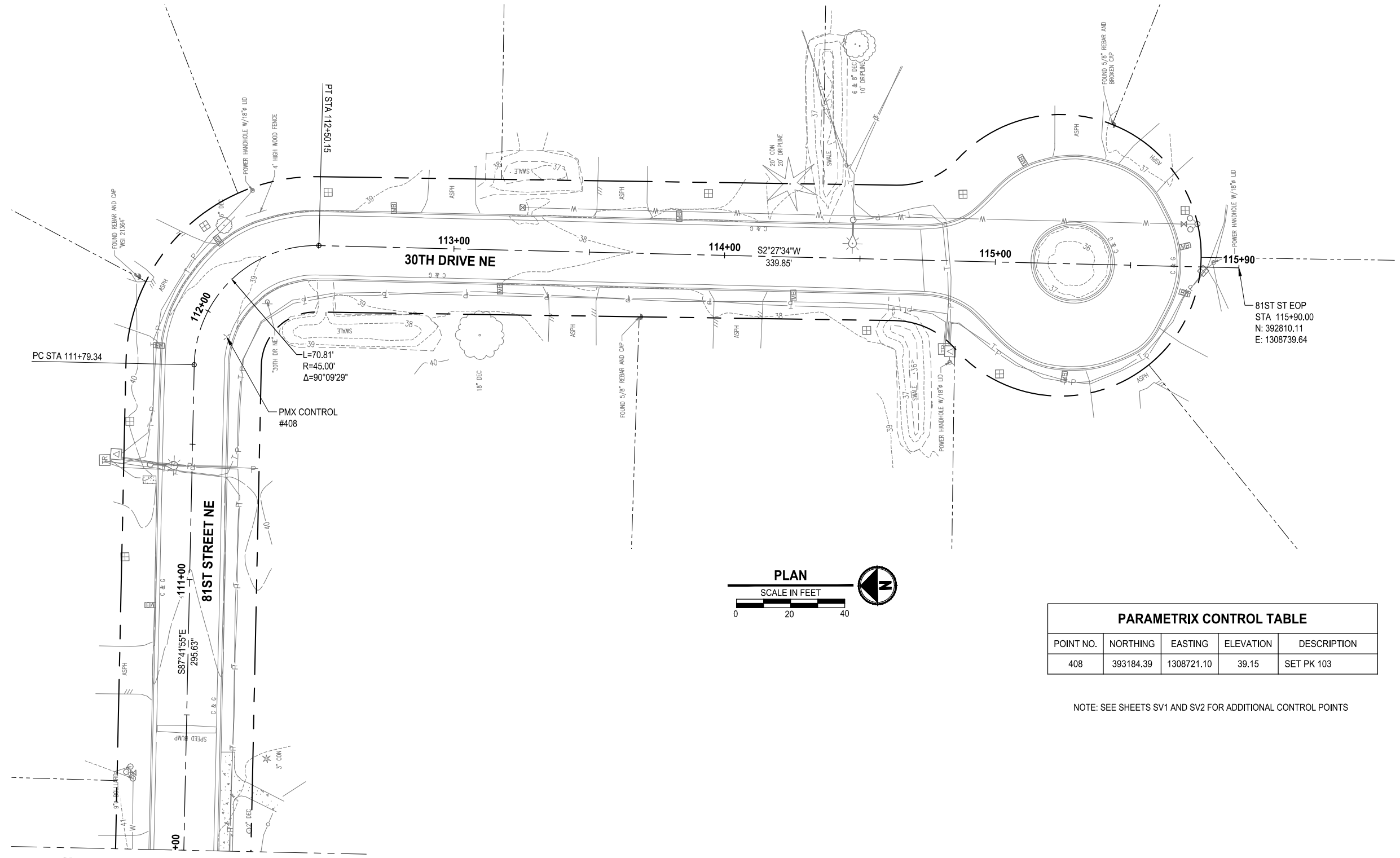
PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
81ST ST NE  
THE TULALIP TRIBES  
TULALIP, WASHINGTON

**SURVEY MAP  
AND HORIZONTAL CONTROL PLAN**

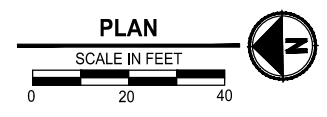
DRAWING NO.  
4 OF 21  
**SV2**



PATH: U:\PSO\Projects\Clients\1598-TulalipTribes\1598-140\_2021PmtRehabProjects\995\sv3\CADD\DWG\81ST\_LAYOUT\_SV3 PLOTTED BY: SusiDmi DATE: Tuesday, April 26, 2022 2:27:46 PM



MATCH LINE STA 110+00, SEE SHEET SV2



| PARAMETRIX CONTROL TABLE |           |            |           |             |
|--------------------------|-----------|------------|-----------|-------------|
| POINT NO.                | NORTHING  | EASTING    | ELEVATION | DESCRIPTION |
| 408                      | 393184.39 | 1308721.10 | 39.15     | SET PK 103  |

NOTE: SEE SHEETS SV1 AND SV2 FOR ADDITIONAL CONTROL POINTS

| REVISIONS | DATE | BY | DESIGNED      |
|-----------|------|----|---------------|
|           |      |    | D. SUSLIKOV   |
|           |      |    | D. SUSLIKOV   |
|           |      |    | A. FISHER     |
|           |      |    | H. LONGFELLOW |

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IF NOT, SCALE ACCORDINGLY

FILE NAME  
PU5541598140-81st-SV

JOB No.  
554-1598-140

DATE  
APRIL 2022



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PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
81ST ST NE  
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TULALIP, WASHINGTON

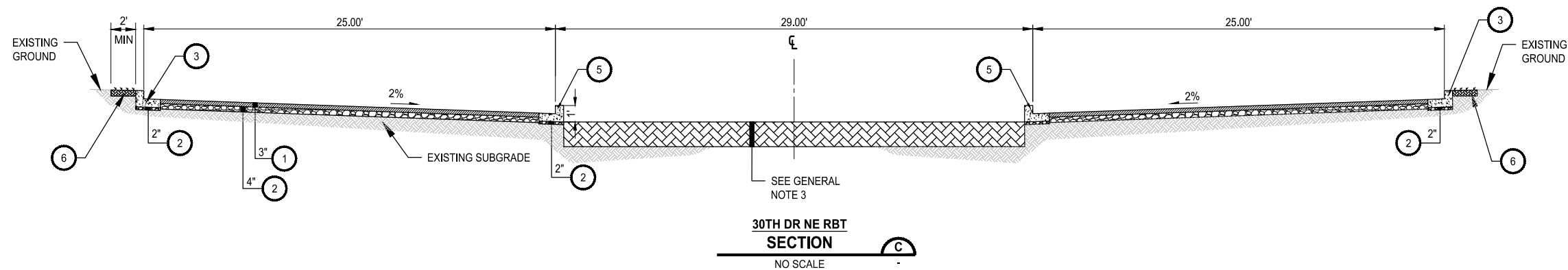
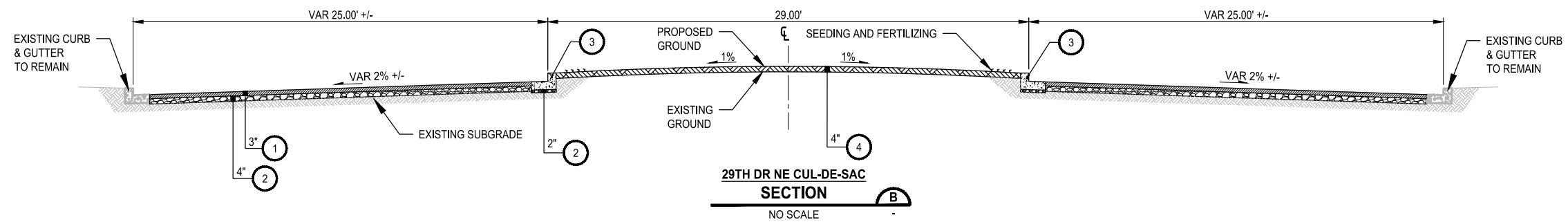
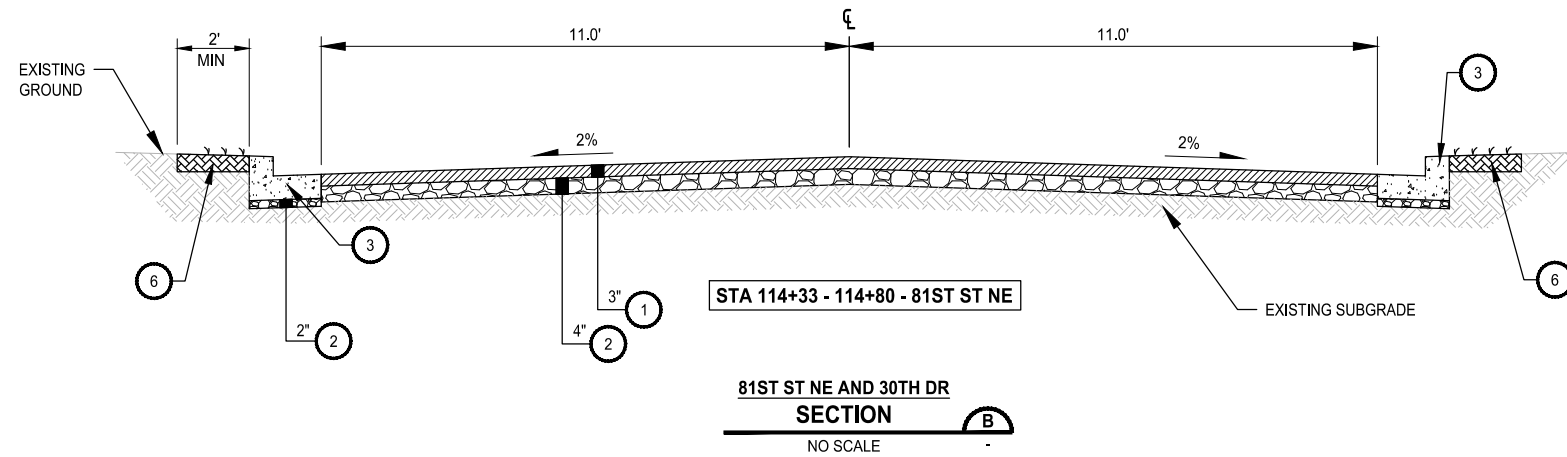
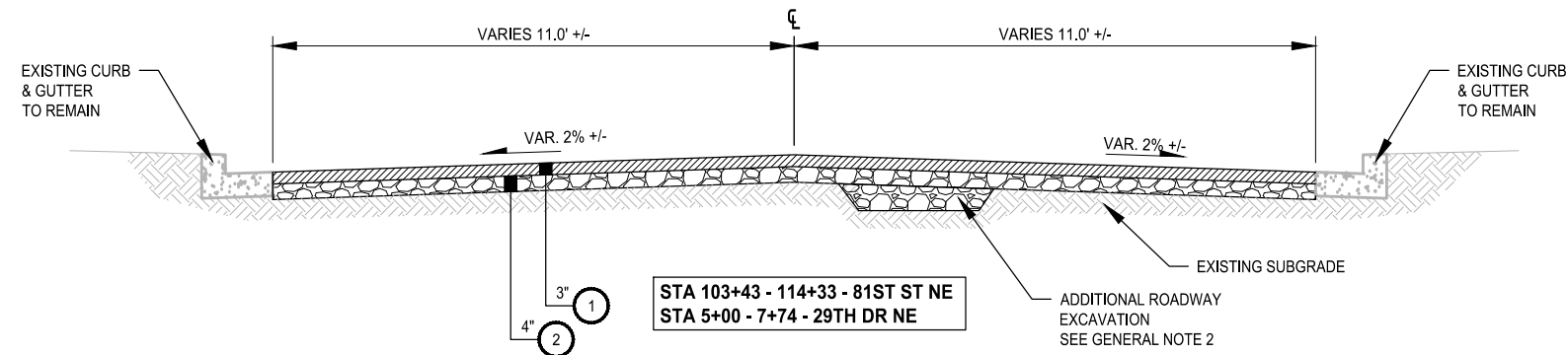
**SURVEY MAP  
AND HORIZONTAL CONTROL PLAN**

DRAWING NO.  
5 OF 21

**SV3**



PATH: U:\PSO\Projects\Clients\1598-Tulip Tribes\1598-140-2021\m\Rehab\Projects\995\c\cadd\DWG\81ST  
 LAYOUT: RSI  
 PLOTTED BY: SusliDmi DATE: Tuesday, April 26, 2022 2:48:37 PM

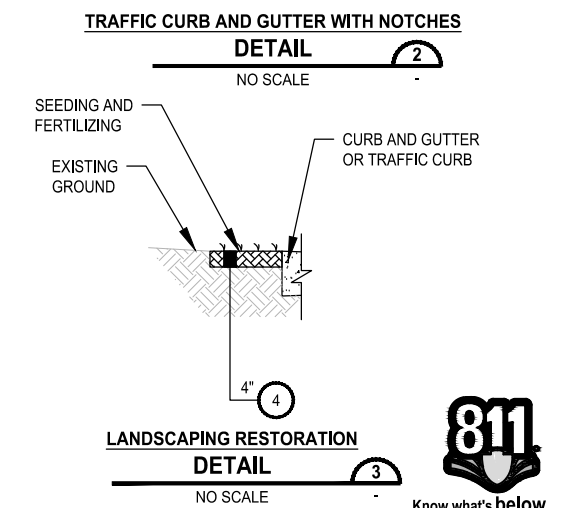
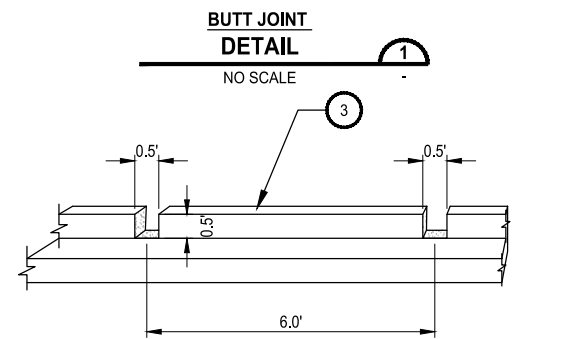
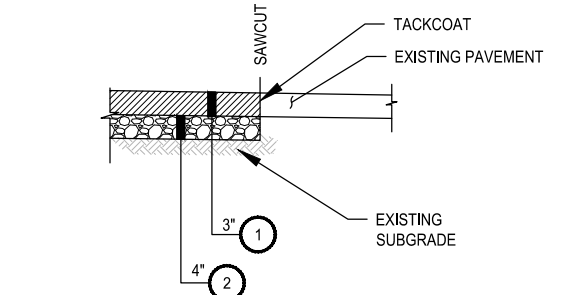


**CONSTRUCTION NOTES:**

- 1 HMA CL 1/2" PG 58H-22.
- 2 CRUSHED SURFACING BASE COURSE.
- 3 CEMENT CONC. CURB AND GUTTER PER SNOHOMISH COUNTY STD PLAN 4-140.
- 4 TOPSOIL TYPE A.
- 5 CEMENT CONC. TRAFFIC CURB AND GUTTER WITH NOTCHES.
- 6 LANDSCAPING RESTORATION.

**GENERAL NOTES:**

- 1. REFER TO BUTT JOINT DETAIL THIS SHEET WHEN TRANSITIONING FROM EXISTING TO NEW PAVING.
- 2. ADDITIONAL EXCAVATION AREA AS DEFINED BY ENGINEER. FILLED BACK WITH CSBC. SEE SPECIAL PROVISIONS.
- 3. RESTORATION OF THE RAIN GARDEN LOCATED IN 30TH DR NE CUL-DE-SAC, TILL 3" MEDIUM COMPOST INTO THE TOP 18" OF NATIVE SOIL. COMPACT TO 85% MODIFIED MAXIMUM DRY DENSITY. WILL BE PAID UNDER MEDIUM COMPOST PAY ITEM.



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|           |      |    | D. SUSLIKOV               |
|           |      |    | DRAWN<br>D. SUSLIKOV      |
|           |      |    | CHECKED<br>A. FISHER      |
|           |      |    | APPROVED<br>H. LONGFELLOW |

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FILE NAME  
PU5541598140-81st-RS

JOB No.  
554-1598-140

DATE  
APRIL 2022



4/26/22

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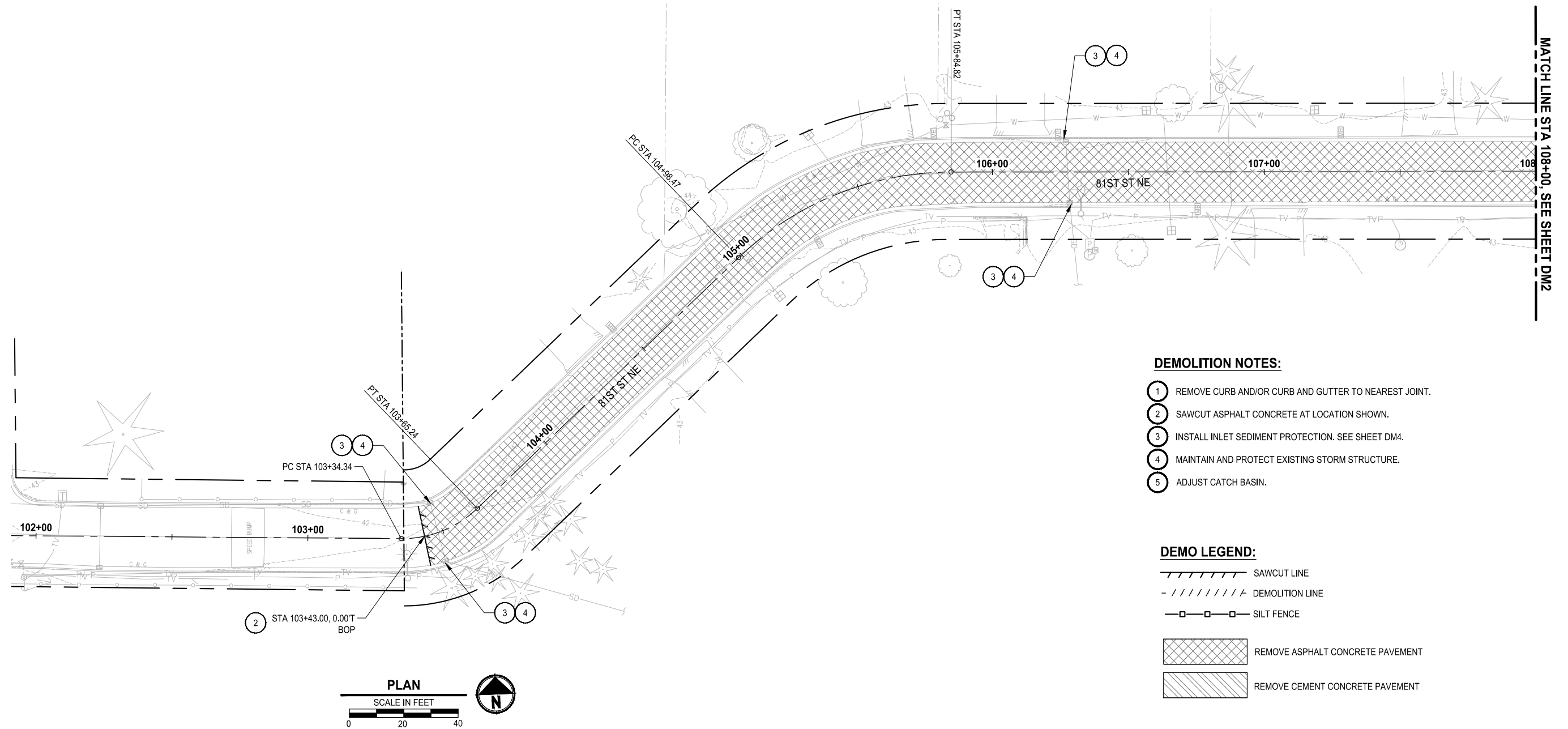
PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
81ST ST NE  
THE TULALIP TRIBES  
TULALIP, WASHINGTON

**ROADWAY SECTIONS**

DRAWING NO.  
6 OF 21

**RS1**

PATH: U:\PSO\Projects\Clients\1598-TulalipTribes\1598-140-2021PmtRehabProjects\995\cadd\DWG\81ST-DM1.dwg  
 PLOTTED BY: SusliDmi DATE: Tuesday, April 26, 2022 2:49:39 PM  
 LAYOUT: DM1



**DEMOLITION NOTES:**

- 1 REMOVE CURB AND/OR CURB AND GUTTER TO NEAREST JOINT.
- 2 SAWCUT ASPHALT CONCRETE AT LOCATION SHOWN.
- 3 INSTALL INLET SEDIMENT PROTECTION. SEE SHEET DM4.
- 4 MAINTAIN AND PROTECT EXISTING STORM STRUCTURE.
- 5 ADJUST CATCH BASIN.

**DEMO LEGEND:**

- SAWCUT LINE
- DEMOLITION LINE
- SILT FENCE
- REMOVE ASPHALT CONCRETE PAVEMENT
- REMOVE CEMENT CONCRETE PAVEMENT



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|           |      |    | DRAWN<br>D. SUSLIKOV      |
|           |      |    | CHECKED<br>A. FISHER      |
|           |      |    | APPROVED<br>H. LONGFELLOW |

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 FILE NAME  
 PU5541598140-81st-DM  
 JOB No.  
 554-1598-140  
 DATE  
 APRIL 2022



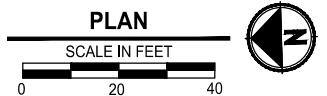
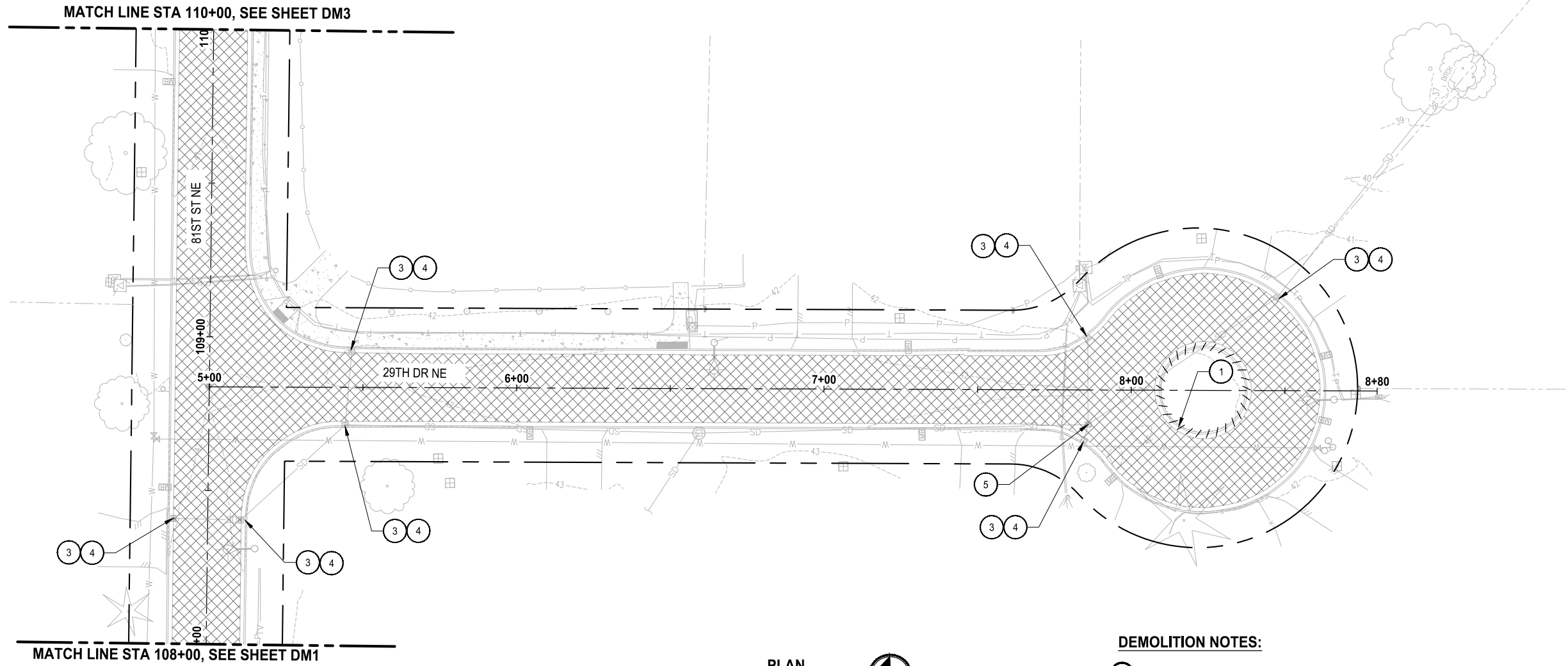
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PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
 81ST ST NE  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

DEMOLITION AND TESC PLAN

DRAWING NO.  
 7 OF 21  
**DM1**

PATH: U:\PSO\Projects\Clients\1598-Tulalip Tribes\1598-Tulalip Tribes\554-1598-140\_2021P\m\Rehab\Projects\995\cadd\DWG\81ST  
 LAYOUT: DM2  
 PLOTTED BY: SusiDmi DATE: Tuesday, April 26, 2022 2:50:21 PM



- DEMOLITION NOTES:**
- 1 REMOVE CURB AND/OR CURB AND GUTTER TO NEAREST JOINT.
  - 2 SAWCUT ASPHALT CONCRETE AT LOCATION SHOWN.
  - 3 INSTALL INLET SEDIMENT PROTECTION. SEE SHEET DM4.
  - 4 MAINTAIN AND PROTECT EXISTING STORM STRUCTURE.
  - 5 ADJUST CATCH BASIN.

- DEMO LEGEND:**
- SAWCUT LINE
  - DEMOLITION LINE
  - SILT FENCE
  - REMOVE ASPHALT CONCRETE PAVEMENT
  - REMOVE CEMENT CONCRETE PAVEMENT



| REVISIONS | DATE | BY | DESIGNED      |
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|           |      |    | D. SUSLIKOV   |
|           |      |    | DRAWN         |
|           |      |    | D. SUSLIKOV   |
|           |      |    | CHECKED       |
|           |      |    | A. FISHER     |
|           |      |    | APPROVED      |
|           |      |    | H. LONGFELLOW |

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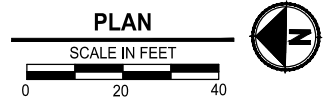
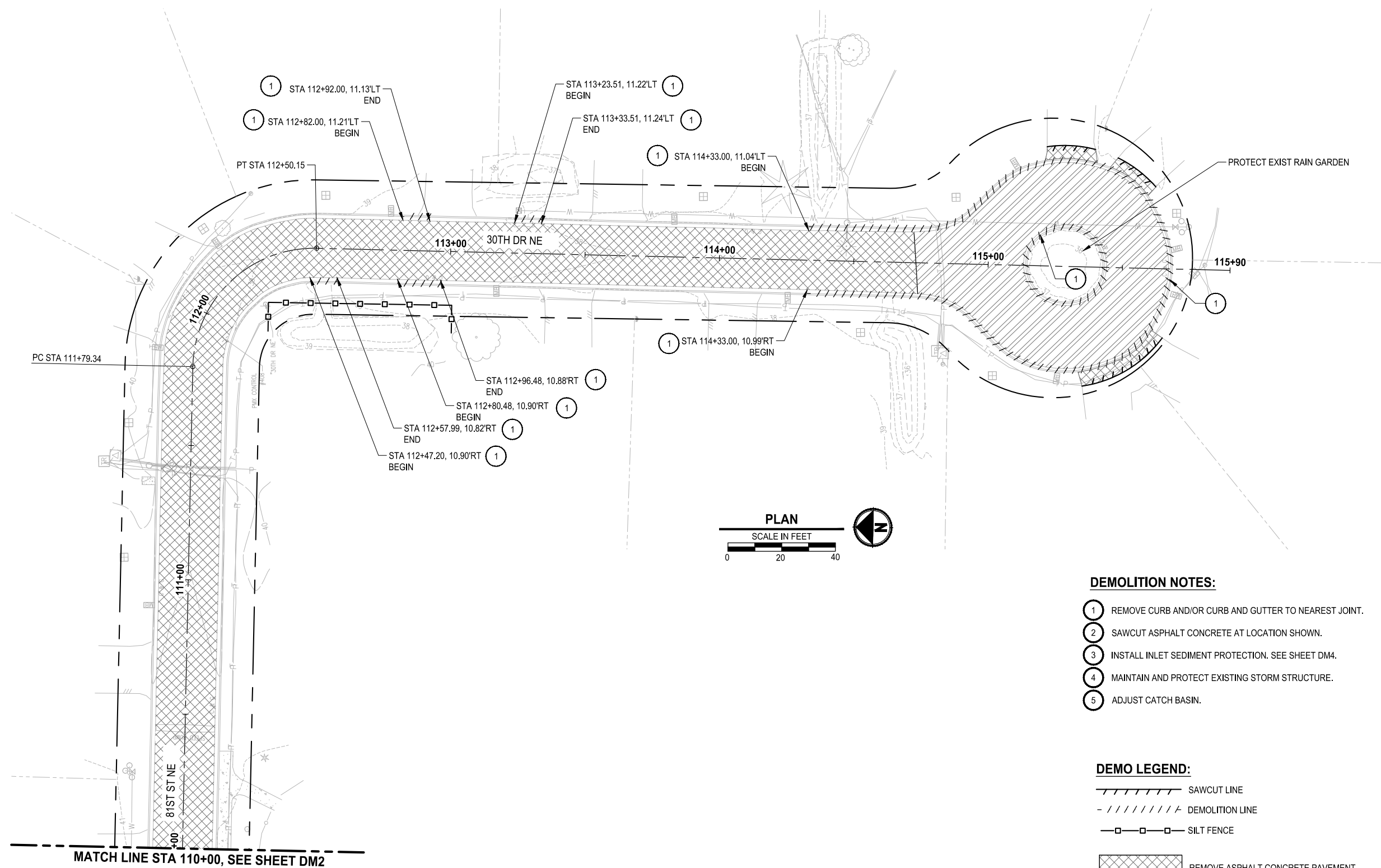
PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
**81ST ST NE**  
**THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**DEMOLITION AND TESC PLAN**

DRAWING NO.  
 8 OF 21  
**DM2**



PATH: U:\PSO\Projects\Clients\1598-Tulalip Tribes\1598-140-2021PmRehabProjects\995\cs\CADD\DWG\81ST PLOTTED BY: SusliDmi DATE: Tuesday, April 26, 2022 2:51:01 PM LAYOUT: DM3



- DEMOLITION NOTES:**
- ① REMOVE CURB AND/OR CURB AND GUTTER TO NEAREST JOINT.
  - ② SAWCUT ASPHALT CONCRETE AT LOCATION SHOWN.
  - ③ INSTALL INLET SEDIMENT PROTECTION. SEE SHEET DM4.
  - ④ MAINTAIN AND PROTECT EXISTING STORM STRUCTURE.
  - ⑤ ADJUST CATCH BASIN.

- DEMO LEGEND:**
- SAWCUT LINE
  - DEMOLITION LINE
  - SILT FENCE
  - REMOVE ASPHALT CONCRETE PAVEMENT
  - REMOVE CEMENT CONCRETE PAVEMENT



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|           |      |    | DRAWN D. SUSLIKOV      |
|           |      |    | CHECKED A. FISHER      |
|           |      |    | APPROVED H. LONGFELLOW |

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PROJECT NAME  
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 81ST ST NE  
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**DEMOLITION AND TESC PLAN**

DRAWING NO.  
 9 OF 21  
**DM3**

**GENERAL NOTES (EROSION CONTROL)**

1. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION. THE ENGINEER AND CONTRACTOR SHALL INSPECT AND APPROVE THE INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO BEGINNING CONSTRUCTION.
2. EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. SILTATION OF EXISTING OR PROPOSED DRAINAGE FACILITIES SHALL NOT BE ALLOWED. CARE SHALL BE TAKEN TO PREVENT MITIGATION OF SILTS TO OFF SITE PROPERTIES.
3. THE CONTRACTOR SHALL MAKE DAILY SURVEILLANCE OF ALL EROSION CONTROL MEASURES AND MAKE ANY NECESSARY REPAIRS OR ADDITIONS TO THE EROSION CONTROL MEASURES AS REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS DETERMINED BY THE INSPECTOR OR ENGINEER. FAILURE TO COMPLY WITH ALL TRIBAL EROSION CONTROL REQUIREMENTS MAY RESULT IN CIVIL PENALTIES BEING LEVIED AGAINST THE CONTRACTOR.
4. DURING THE WET SEASON, NOVEMBER TO MARCH INCLUSIVE, ALL DISTURBED SOILS SHALL BE STABILIZED WITHIN 48 HOURS AFTER STOP OF WORK. EROSION CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, COVERING THE AFFECTED AREA INCLUDING SPOIL PILES WITH PLASTIC SHEETING, STRAW MATTING, JUTE MATTING, STRAW MULCH, OR WOOD CHIPS. SEEDING OF THE DISTURBED AREAS SHALL TAKE PLACE AS WEATHER PERMITS.
5. ALL SEEDED OR SODDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE VEGETATIVE COVERAGE IS COMPLETE. AREAS SHALL BE REPAIRED, RESEEDED, AND FERTILIZED AS REQUIRED.
6. TRACKING OF SOIL OFF SITE WILL NOT BE ALLOWED. IF SOIL IS TRACKED ON TO A PUBLIC STREET, IT SHALL BE REMOVED BY THE END OF THAT WORKING DAY. ANY FURTHER TRACKING OF MUD SHALL THEN BE PREVENTED BY SWEEPING OR WASHING OF THE VEHICLE'S TIRES BEFORE DRIVING ON A STREET.
7. NO MORE THAN 300 LF OF TRENCH SHALL BE OPENED AT ONE TIME.
8. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
9. TRENCH DEWATERING DEVICES SHALL BE DISCHARGED IN A MANNER THAT WILL NOT ADVERSELY AFFECT FLOWING STREAMS, DRAINAGE SYSTEMS, OR OFF SITE PROPERTIES.
10. ALL STORM SEWER INLETS RECEIVING RUNOFF FROM THE PROJECT DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL BE FILTERED BEFORE ENTERING THE CONVEYANCE SYSTEM.
11. ALL OFF SITE CATCH BASINS IMMEDIATELY ADJACENT TO THE SITE SHALL BE PROTECTED FROM SILTATION.
12. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED UPON COMPLETION OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT COMPLETE COVERAGE OF THE DISTURBED AREAS IS PROVIDED AND THAT GROWTH OF VEGETATION IS ESTABLISHED FOR 3 MONTHS.

**SILT FENCES:**

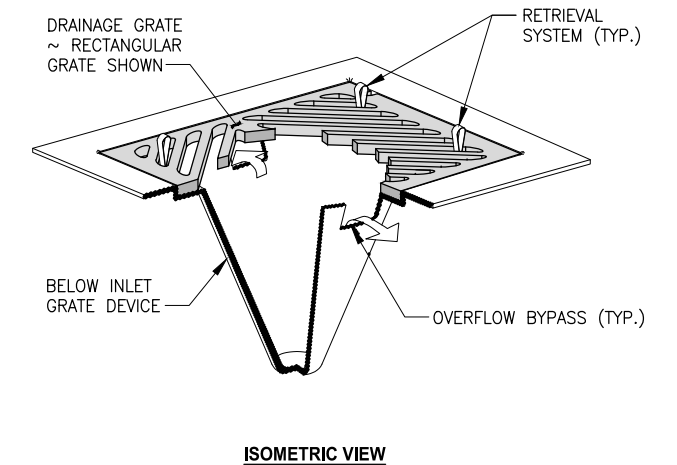
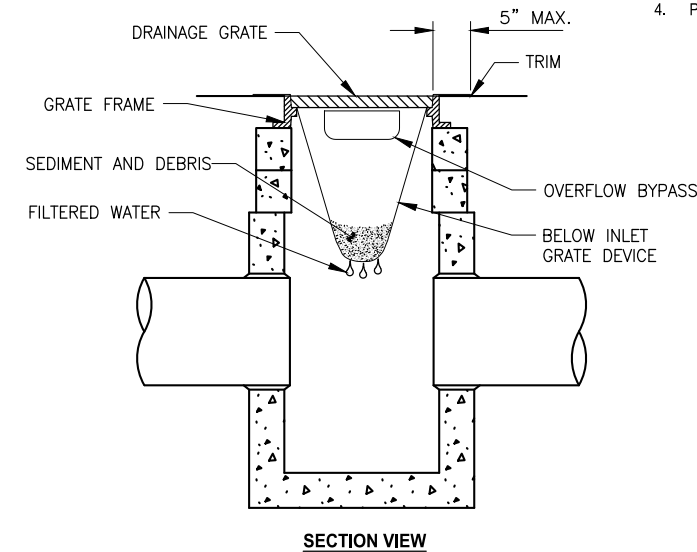
1. SILT FENCE SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POST.
2. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES).
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE STANDARD STRENGTH SILT FENCE SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE SILT FENCE SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. SILT FENCE SHALL NOT BE STAPLED TO EXISTING TREES.
6. WHEN EXTRA-STRENGTH SILT FENCE AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE SILT FENCE IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
7. SILT FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

**INLET SEDIMENT PROTECTION**

1. CATCH BASIN INSERT INSTALLATION:
2. REMOVE CATCH BASIN GRATE
3. CLEAN DIRT AND DEBRIS FROM GRATE LEDGE
4. PLACE INSERT OVER CATCH BASIN OPENING WITH BAG INSIDE BASIN
5. REPLACE GRATE, AT THE SAME TIME PINCH INSERT FABRIC BETWEEN GRATE AND CATCH BASIN FRAME
6. CUT EXCESS FABRIC OFF AND LEAVE THREE TO FIVE INCHES OF FABRIC AROUND OUTSIDE SIDE OF GRATE IF INSERT IS REUSABLE

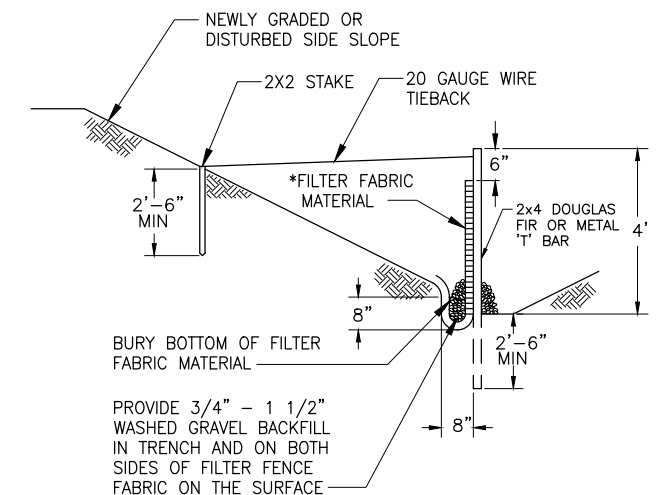
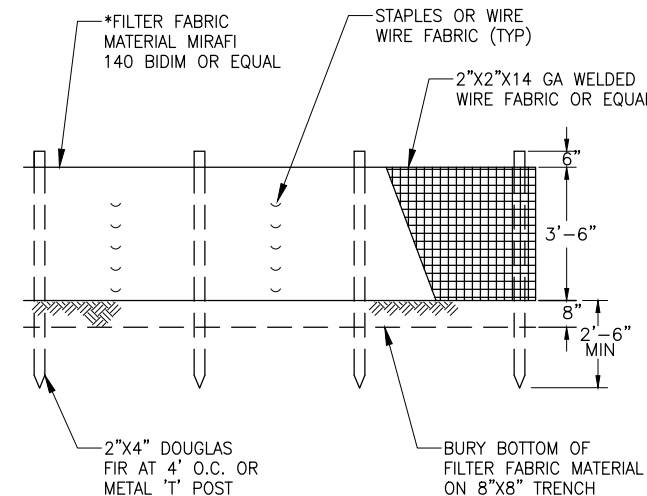
**NOTES:**

1. SIZE THE BELOW INLET GRATE DEVICE FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
2. THE INSERT SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE INSERT WITHOUT SPILLING THE COLLECTED MATERIAL.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15).



**INLET SEDIMENT PROTECTION**

NO SCALE



**NOTES:**

1. SILT FENCE SHALL BE INSTALLED ON CONTOUR OTHER INSTALLATIONS ARE NOT ACCEPTABLE.
2. \*FILTER FABRIC TO BE SPECIFIED BY ENGINEER.

**SILT FENCE**



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|           |      |    | D. SUSLIKOV            |
|           |      |    | DRAWN D. SUSLIKOV      |
|           |      |    | CHECKED A. FISHER      |
|           |      |    | APPROVED H. LONGFELLOW |

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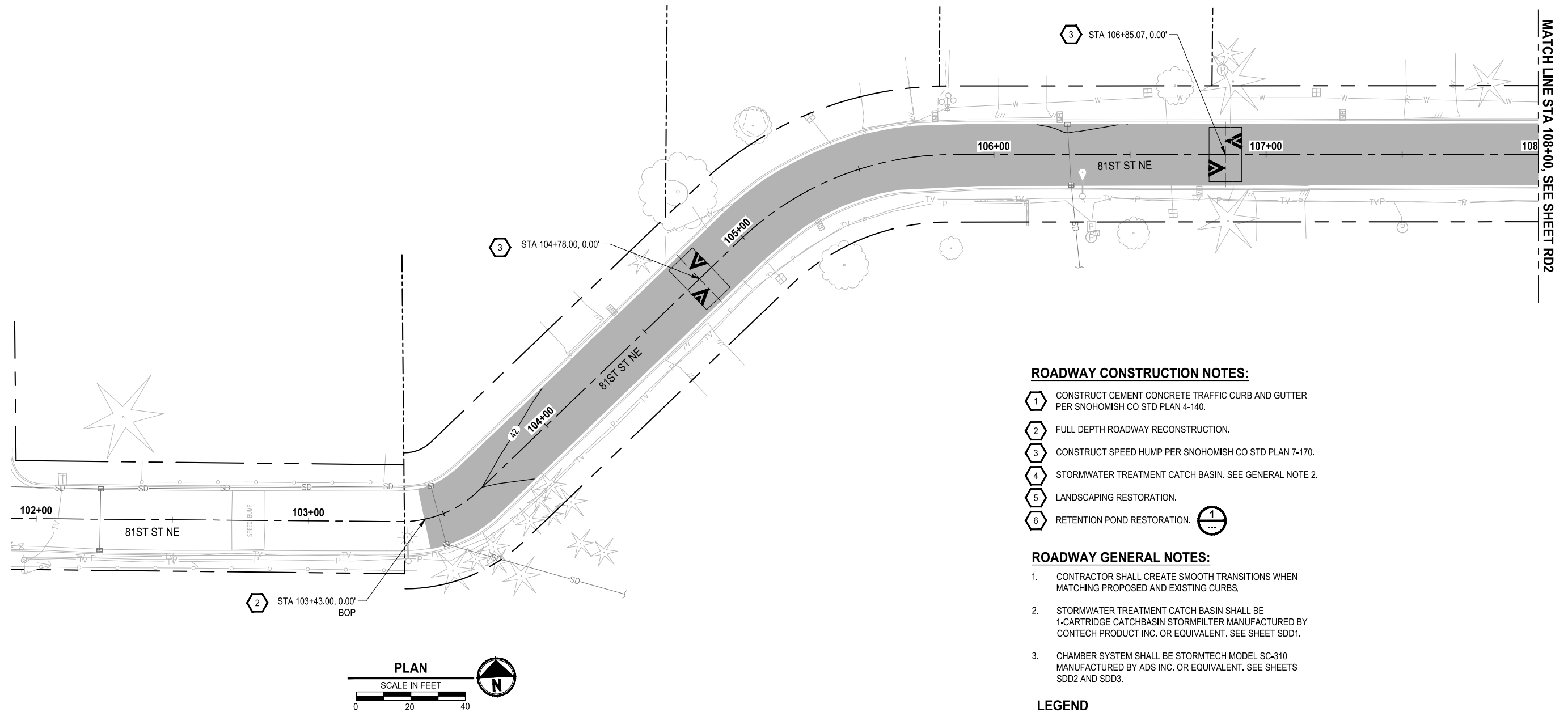
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PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
 81ST ST NE  
**THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**DEMOLITION AND TESC**  
**NOTES AND DETAILS**

DRAWING NO.  
 10 OF 21  
**DM4**

PATH: U:\P50\Projects\Clients\1598-Tulip Tribes\1598-140-2021\Plan\Rehab\Projects\995\cadd\DWG\81ST  
 PLOTTED BY: SusliDmi DATE: Tuesday, April 26, 2022 2:52:50 PM  
 LAYOUT: RD1



**ROADWAY CONSTRUCTION NOTES:**

- 1 CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER SNOHOMISH CO STD PLAN 4-140.
- 2 FULL DEPTH ROADWAY RECONSTRUCTION.
- 3 CONSTRUCT SPEED HUMP PER SNOHOMISH CO STD PLAN 7-170.
- 4 STORMWATER TREATMENT CATCH BASIN. SEE GENERAL NOTE 2.
- 5 LANDSCAPING RESTORATION.
- 6 RETENTION POND RESTORATION. 1

**ROADWAY GENERAL NOTES:**

- 1. CONTRACTOR SHALL CREATE SMOOTH TRANSITIONS WHEN MATCHING PROPOSED AND EXISTING CURBS.
- 2. STORMWATER TREATMENT CATCH BASIN SHALL BE 1-CARTRIDGE CATCHBASIN STORMFILTER MANUFACTURED BY CONTECH PRODUCT INC. OR EQUIVALENT. SEE SHEET SDD1.
- 3. CHAMBER SYSTEM SHALL BE STORMTECH MODEL SC-310 MANUFACTURED BY ADS INC. OR EQUIVALENT. SEE SHEETS SDD2 AND SDD3.

**LEGEND**

- HMA PAVEMENT
- LANDSCAPING RESTORATION. 3
- LANDSCAPING RESTORATION AT RETENTION POND. 1 RD3



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|           |      |    | DRAWN<br>D. SUSLIKOV      |
|           |      |    | CHECKED<br>A. FISHER      |
|           |      |    | APPROVED<br>H. LONGFELLOW |

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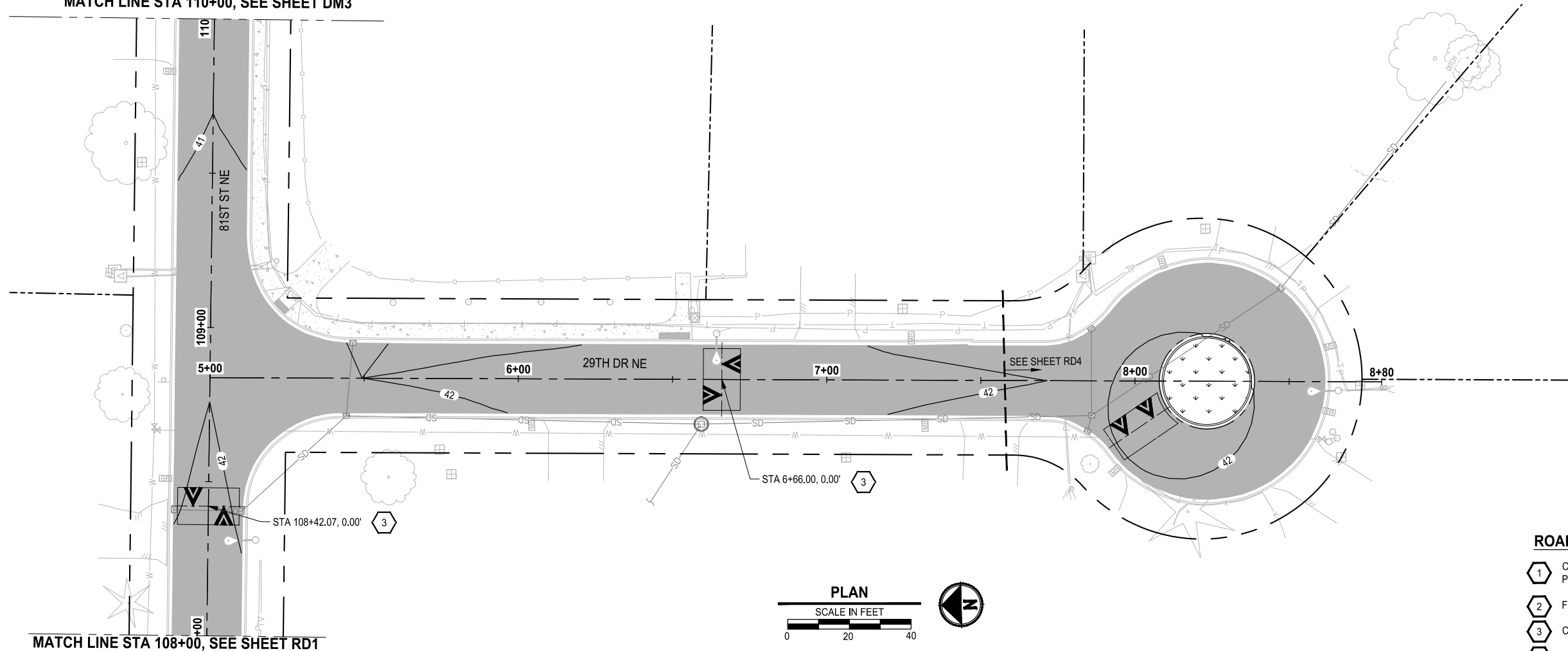
PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
 81ST ST NE  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

**ROADWAY AND STORM DRAINAGE**  
**PLAN AND PROFILE**

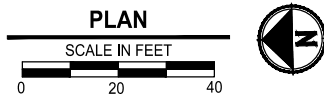
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**RD1**

PATH: U:\PSO\Projects\Clients\1598-TulipTribes\554-1598-140-2021PmtRehabProjects\995\cadd\DWG\81ST PLOTTED BY: Suslikov DATE: Tuesday, April 26, 2022 2:53:41 PM LAYOUT: RD2

MATCH LINE STA 110+00, SEE SHEET DM3



MATCH LINE STA 108+00, SEE SHEET RD1



**ROADWAY CONSTRUCTION NOTES:**

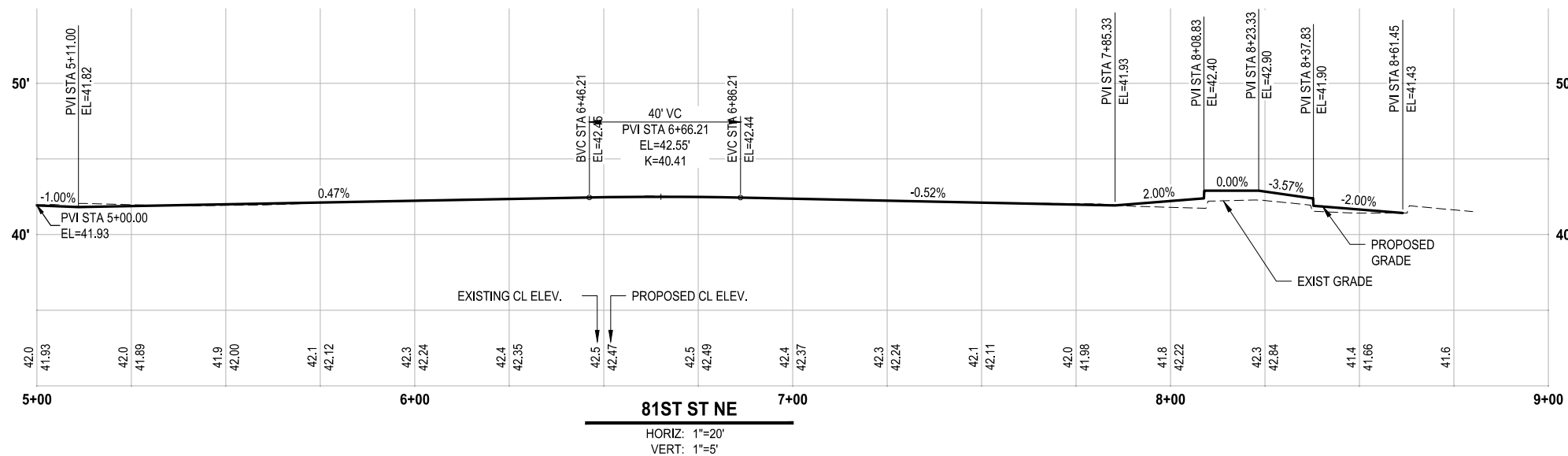
- 1 CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER SNOHOMISH CO STD PLAN 4-140.
- 2 FULL DEPTH ROADWAY RECONSTRUCTION.
- 3 CONSTRUCT SPEED HUMP PER SNOHOMISH CO STD PLAN 7-170.
- 4 STORMWATER TREATMENT CATCH BASIN. SEE GENERAL NOTE 2.
- 5 LANDSCAPING RESTORATION.
- 6 RETENTION POND RESTORATION.

**ROADWAY GENERAL NOTES:**

- 1. CONTRACTOR SHALL CREATE SMOOTH TRANSITIONS WHEN MATCHING PROPOSED AND EXISTING CURBS.
- 2. STORMWATER TREATMENT CATCH BASIN SHALL BE 1-CARTRIDGE CATCHBASIN STORMFILTER MANUFACTURED BY CONTECH PRODUCT INC. OR EQUIVALENT. SEE SHEET SDD1.
- 3. CHAMBER SYSTEM SHALL BE STORMTECH MODEL SC-310 MANUFACTURED BY ADS INC. OR EQUIVALENT. SEE SHEETS SDD2 AND SDD3.

**LEGEND**

- HMA PAVEMENT
- LANDSCAPING RESTORATION.
- LANDSCAPING RESTORATION AT RETENTION POND.



81ST ST NE

HORIZ: 1"=20'  
VERT: 1"=5'

| REVISIONS | DATE | BY | DESIGNED      |
|-----------|------|----|---------------|
|           |      |    | D. SUSLIKOV   |
|           |      |    | D. SUSLIKOV   |
|           |      |    | A. FISHER     |
|           |      |    | H. LONGFELLOW |

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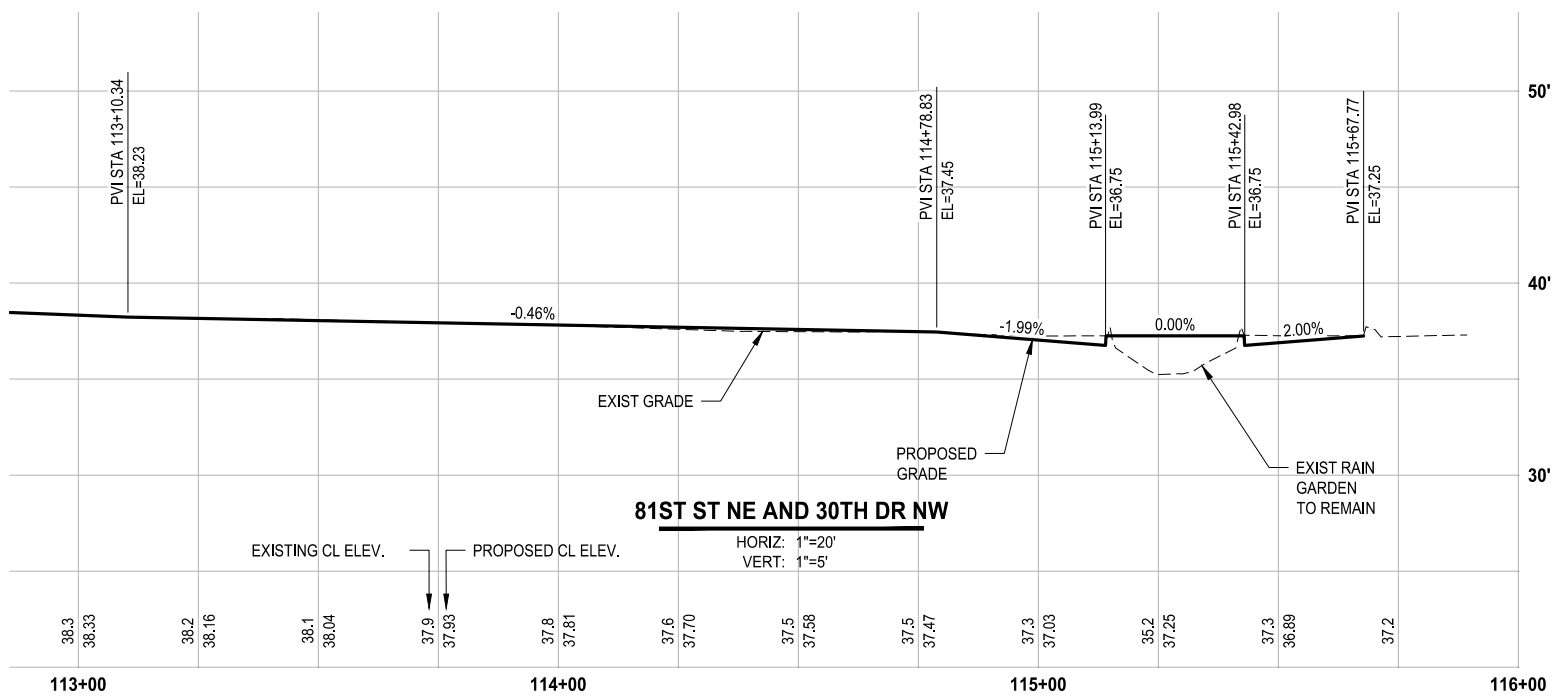
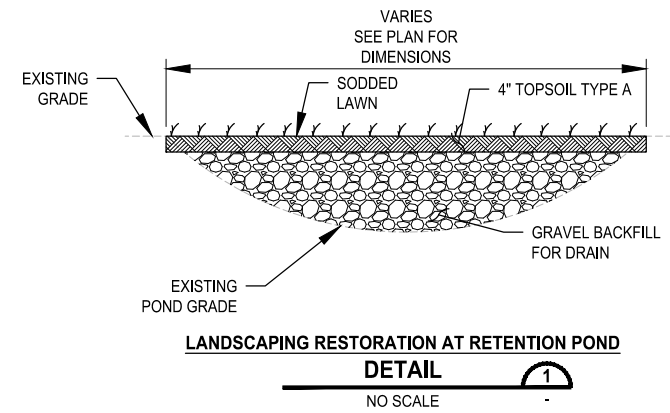
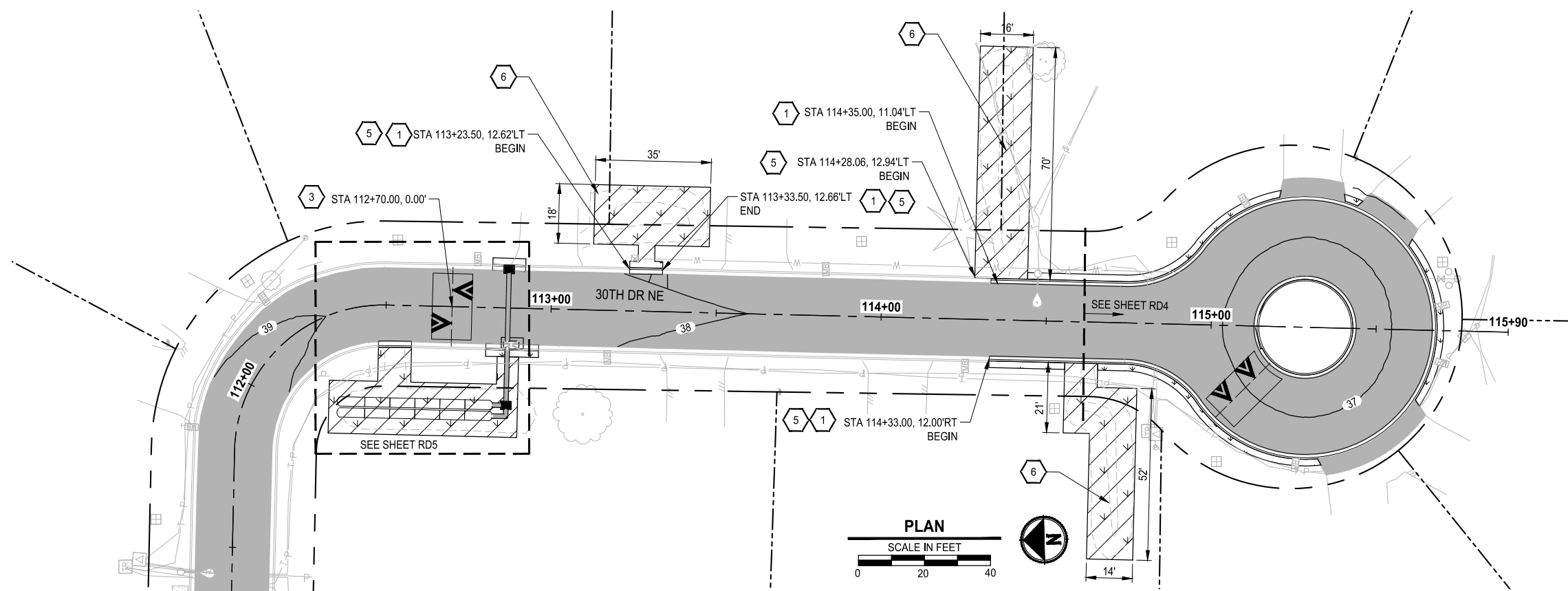
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PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
 81ST ST NE  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

**ROADWAY AND STORM DRAINAGE**  
**PLAN AND PROFILE**

DRAWING NO.  
 12 OF 21  
**RD2**

PATH: U:\PSO\Projects\Clients\1598-Tulalip Tribes\1598-140-2021PmtRehabProjects\995\cadd\DWG\RD3 PLOTTED BY: SusliDmi DATE: Tuesday, April 26, 2022 2:55:14 PM LAYOUT: RD3



- ROADWAY CONSTRUCTION NOTES:**
- 1 CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER SNOHOMISH CO STD PLAN 4-140.
  - 2 FULL DEPTH ROADWAY RECONSTRUCTION.
  - 3 CONSTRUCT SPEED HUMP PER SNOHOMISH CO STD PLAN 7-170.
  - 4 STORMWATER TREATMENT CATCH BASIN. SEE GENERAL NOTE 2.
  - 5 LANDSCAPING RESTORATION.
  - 6 RETENTION POND RESTORATION.

- ROADWAY GENERAL NOTES:**
1. CONTRACTOR SHALL CREATE SMOOTH TRANSITIONS WHEN MATCHING PROPOSED AND EXISTING CURBS.
  2. STORMWATER TREATMENT CATCH BASIN SHALL BE 1-CARTRIDGE CATCHBASIN STORMFILTER MANUFACTURED BY CONTECH PRODUCT INC. OR EQUIVALENT. SEE SHEET SDD1.
  3. CHAMBER SYSTEM SHALL BE STORMTECH MODEL SC-310 MANUFACTURED BY ADS INC. OR EQUIVALENT. SEE SHEETS SDD2 AND SDD3.

- LEGEND**
- HMA PAVEMENT
  - LANDSCAPING RESTORATION.
  - LANDSCAPING RESTORATION AT RETENTION POND.



| REVISIONS | DATE | BY | DESIGNED      |
|-----------|------|----|---------------|
|           |      |    | D. SUSLIKOV   |
|           |      |    | D. SUSLIKOV   |
|           |      |    | A. FISHER     |
|           |      |    | H. LONGFELLOW |

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 JOB No.: 554-1598-140  
 DATE: APRIL 2022



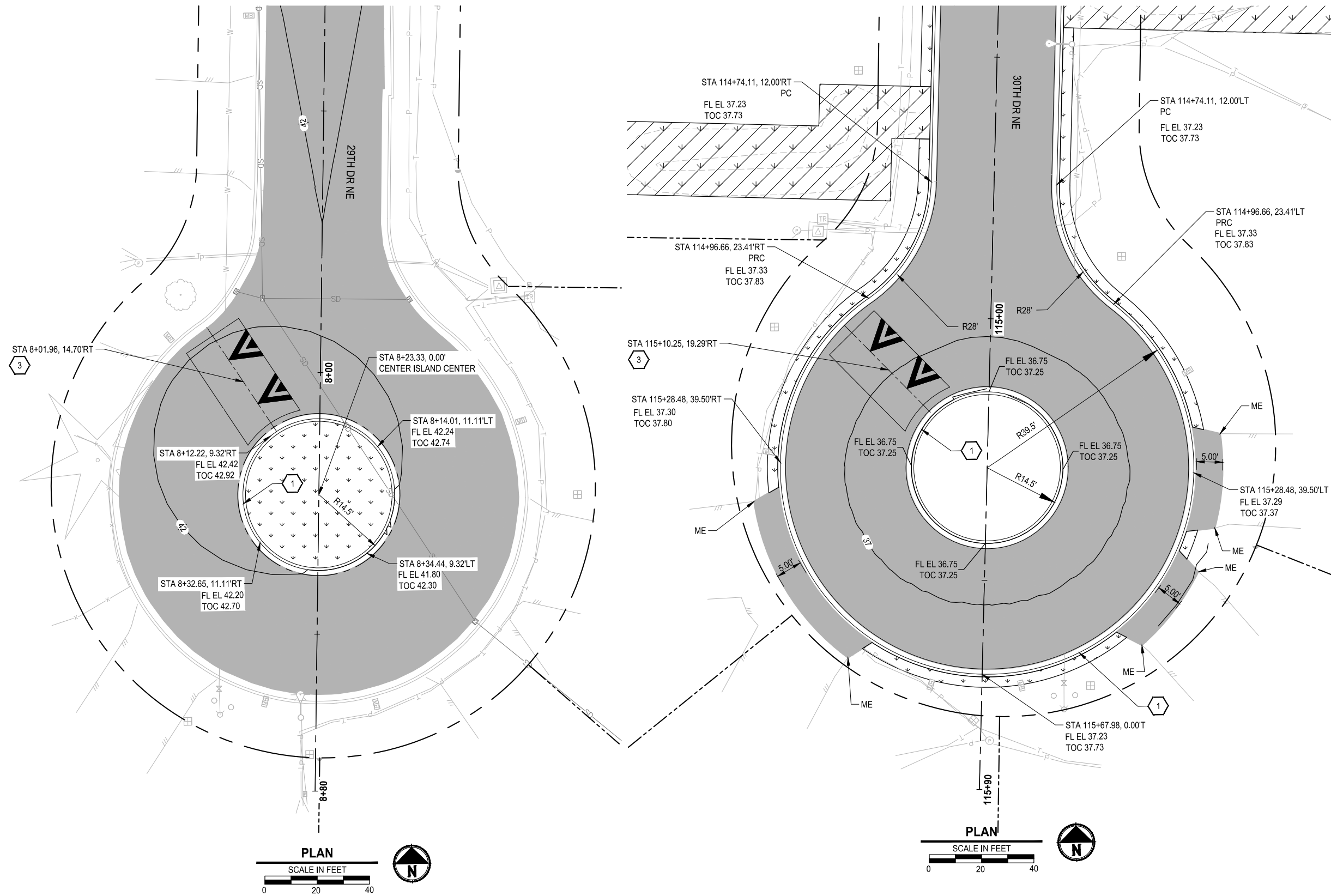
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PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
**81ST ST NE**  
**THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**ROADWAY AND STORM DRAINAGE**  
**PLAN AND PROFILE**

DRAWING NO.  
 13 OF 21  
**RD3**

PATH: U:\PSO\Projects\Clients\Tulip Tribes\1598-Tulip Tribes\554-1598-140-2021PmtRehabProjects\995\cadd\DWG\81ST - PLOTTED BY: Susidmi DATE: Tuesday, April 26, 2022 2:56:30 PM LAYOUT: RD4



**ROADWAY CONSTRUCTION NOTES:**

- 1 CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER SNOHOMISH CO STD PLAN 4-140.
- 2 FULL DEPTH ROADWAY RECONSTRUCTION.
- 3 CONSTRUCT SPEED HUMP PER SNOHOMISH CO STD PLAN 7-170.
- 4 STORMWATER TREATMENT CATCH BASIN. SEE GENERAL NOTE 2.
- 5 LANDSCAPING RESTORATION.
- 6 RETENTION POND RESTORATION.

**ROADWAY GENERAL NOTES:**

- 1. CONTRACTOR SHALL CREATE SMOOTH TRANSITIONS WHEN MATCHING PROPOSED AND EXISTING CURBS.
- 2. STORMWATER TREATMENT CATCH BASIN SHALL BE 1-CARTRIDGE CATCHBASIN STORMFILTER MANUFACTURED BY CONTECH PRODUCT INC. OR EQUIVALENT. SEE SHEET SDD1.
- 3. CHAMBER SYSTEM SHALL BE STORMTECH MODEL SC-310 MANUFACTURED BY ADS INC. OR EQUIVALENT. SEE SHEETS SDD2 AND SDD3.

**LEGEND**

- HMA PAVEMENT
- LANDSCAPING RESTORATION.
- LANDSCAPING RESTORATION AT RETENTION POND.



Know what's below.  
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| REVISIONS | DATE | BY | DESIGNED                  |
|-----------|------|----|---------------------------|
|           |      |    | D. SUSLIKOV               |
|           |      |    | DRAWN<br>D. SUSLIKOV      |
|           |      |    | CHECKED<br>A. FISHER      |
|           |      |    | APPROVED<br>H. LONGFELLOW |

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**ROADWAY AND STORM DRAINAGE  
PLAN AND PROFILE**

DRAWING NO.  
14 OF 21

**RD4**



PATH: U:\PSO\Projects\Clients\1598-140\_2021PmtRehabProjects\9855es\CADD\DWG\81ST PLOTTED BY: Suelldm DATE: Tuesday, April 26, 2022 2:58:43 PM LAYOUT: SDD1

## STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 1 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF ONE CARTRIDGE. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL. PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

### CARTRIDGE SELECTION

| CARTRIDGE HEIGHT               | 27"      |              |          | 18"      |              |          | 18" DEEP |              |          |
|--------------------------------|----------|--------------|----------|----------|--------------|----------|----------|--------------|----------|
| RECOMMENDED HYDRAULIC DROP (H) | 3.05'    |              |          | 2.3'     |              |          | 3.3'     |              |          |
| SPECIFIC FLOW RATE (gpm/sf)    | 2 gpm/sf | 1.67* gpm/sf | 1 gpm/sf | 2 gpm/sf | 1.67* gpm/sf | 1 gpm/sf | 2 gpm/sf | 1.67* gpm/sf | 1 gpm/sf |
| CARTRIDGE FLOW RATE (gpm)      | 22.5     | 18.79        | 11.25    | 15       | 12.53        | 7.5      | 15       | 12.53        | 7.5      |
| PEAK HYDRAULIC CAPACITY        | 1.0      |              |          | 1.0      |              |          | 1.8      |              |          |
| INLET PERMANENT POOL LEVEL (A) | 1'-0"    |              |          | 1'-0"    |              |          | 2'-0"    |              |          |
| OVERALL STRUCTURE HEIGHT (B)   | 4'-9"    |              |          | 3'-9"    |              |          | 4'-9"    |              |          |

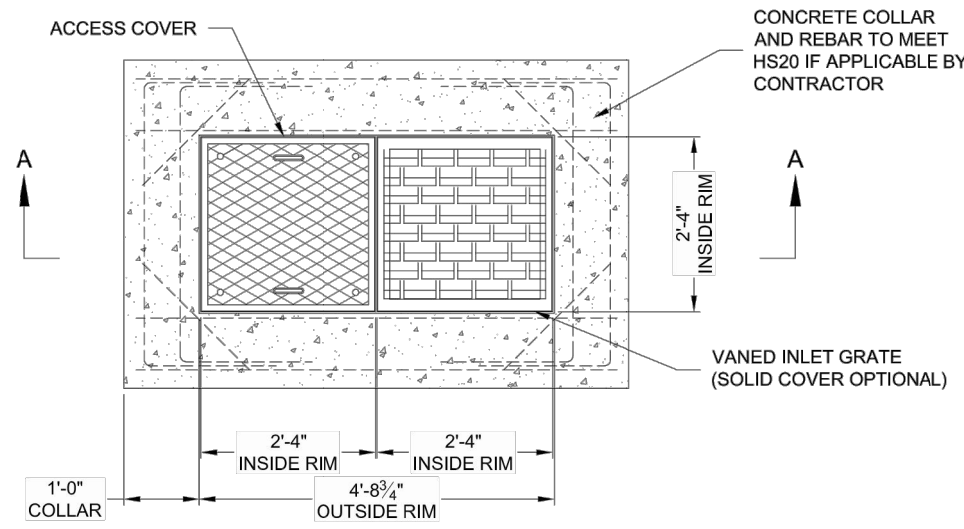
\* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

### GENERAL NOTES

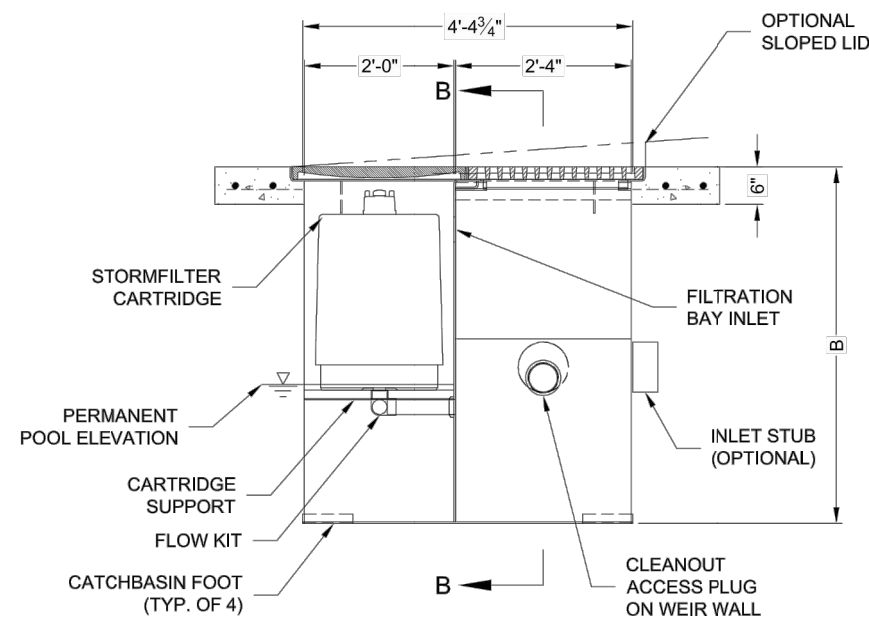
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. [www.contechES.com](http://www.contechES.com)
- STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
- MANUFACTURER TO APPLY A SURFACE BEAD WELD IN THE SHAPE OF THE LETTER "O" ABOVE THE OUTLET PIPE STUB ON THE EXTERIOR SURFACE OF THE STEEL SFCB.
- STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
- STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
- FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
- SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

### INSTALLATION NOTES

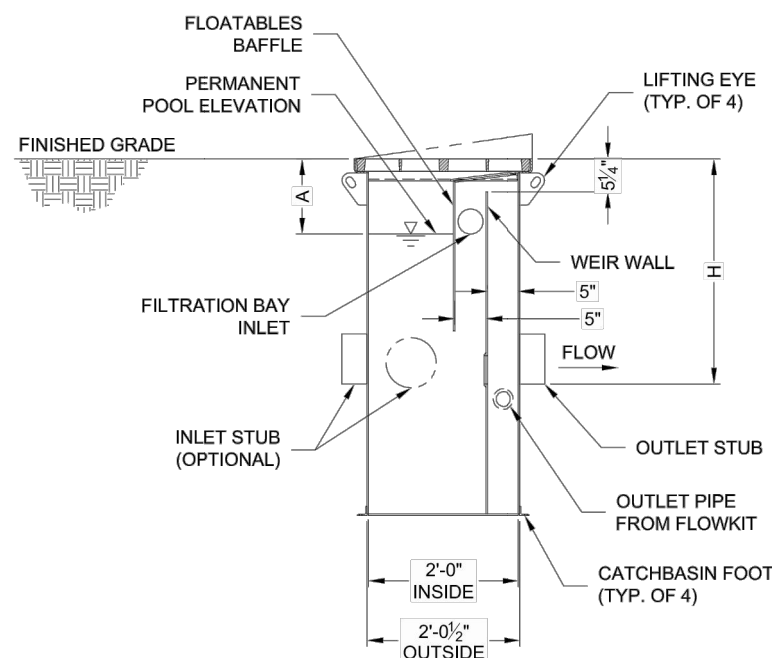
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.



**PLAN VIEW**



**SECTION A-A**

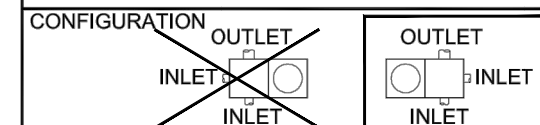


**SECTION B-B**

### 1-CARTRIDGE CATCHBASIN STORMFILTER DATA

|                                       |       |
|---------------------------------------|-------|
| STRUCTURE ID                          | SF1   |
| WATER QUALITY FLOW RATE (cfs)         | 0.038 |
| PEAK FLOW RATE (<1 cfs)               | 0.26  |
| RETURN PERIOD OF PEAK FLOW (yrs)      | 100   |
| CARTRIDGE HEIGHT (27", 18", 18" DEEP) | 18"   |
| CARTRIDGE FLOW RATE (gpm)             | 12.53 |
| MEDIA TYPE (PERLITE, ZPG, PSORB)      | PSORB |
| RIM ELEVATION                         | 38.25 |

| PIPE DATA:  | I.E.  | DIAMETER |
|-------------|-------|----------|
| INLET STUB  | 36.02 | 12"      |
| OUTLET STUB | 35.90 | 12"      |



|             |    |
|-------------|----|
| SLOPED LID  | NO |
| SOLID COVER | NO |

NOTES/SPECIAL REQUIREMENTS:

NONE



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| REVISIONS | DATE | BY | DESIGNED      |
|-----------|------|----|---------------|
|           |      |    | D. SUSLIKOV   |
|           |      |    | D. SUSLIKOV   |
|           |      |    | A. FISHER     |
|           |      |    | H. LONGFELLOW |

|  |                       |
|--|-----------------------|
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PROJECT NAME  
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81ST ST NE  
THE TULALIP TRIBES  
TULALIP, WASHINGTON

**STORM DRAINAGE DETAILS**  
**CARTRIDGE STORMFILTER**

DRAWING NO.  
16 OF 21

**SDD1**

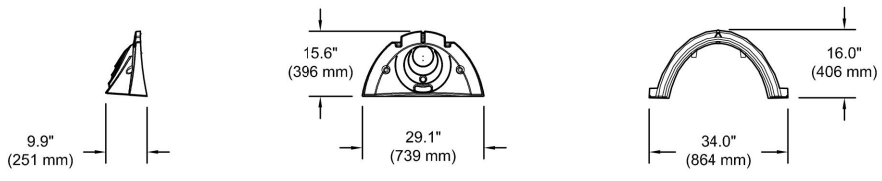
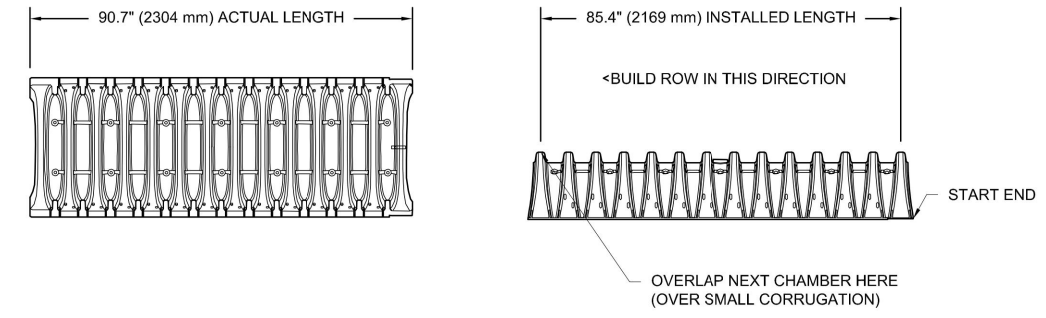




LAYOUT: SDD3  
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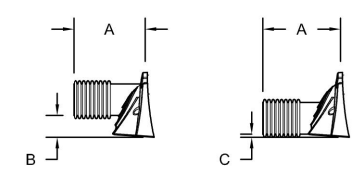
### SC-310 TECHNICAL SPECIFICATION

NTS



| NOMINAL CHAMBER SPECIFICATIONS  |                       |                             |
|---------------------------------|-----------------------|-----------------------------|
| SIZE (W X H X INSTALLED LENGTH) | 34.0" X 16.0" X 85.4" | (864 mm X 406 mm X 2169 mm) |
| CHAMBER STORAGE                 | 14.7 CUBIC FEET       | (0.42 m <sup>3</sup> )      |
| MINIMUM INSTALLED STORAGE*      | 31.0 CUBIC FEET       | (0.88 m <sup>3</sup> )      |
| WEIGHT                          | 35.0 lbs.             | (16.8 kg)                   |

\*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"  
 PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"  
 PRE-CORED END CAPS END WITH "PC"

| PART #                      | STUB         | A              | B             | C            |
|-----------------------------|--------------|----------------|---------------|--------------|
| SC310EPE06T / SC310EPE06TPC | 6" (150 mm)  | 9.6" (244 mm)  | 5.8" (147 mm) | ---          |
| SC310EPE06B / SC310EPE06BPC | ---          | ---            | ---           | 0.5" (13 mm) |
| SC310EPE08T / SC310EPE08TPC | 8" (200 mm)  | 11.9" (302 mm) | 3.5" (89 mm)  | ---          |
| SC310EPE08B / SC310EPE08BPC | ---          | ---            | ---           | 0.6" (15 mm) |
| SC310EPE10T / SC310EPE10TPC | 10" (250 mm) | 12.7" (323 mm) | 1.4" (36 mm)  | ---          |
| SC310EPE10B / SC310EPE10BPC | ---          | ---            | ---           | 0.7" (18 mm) |
| SC310EPE12B                 | 12" (300 mm) | 13.5" (343 mm) | ---           | 0.9" (23 mm) |

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL



| REVISIONS | DATE | BY | DESIGNED                  |
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|           |      |    | D. SUSLIKOV               |
|           |      |    | DRAWN<br>D. SUSLIKOV      |
|           |      |    | CHECKED<br>A. FISHER      |
|           |      |    | APPROVED<br>H. LONGFELLOW |

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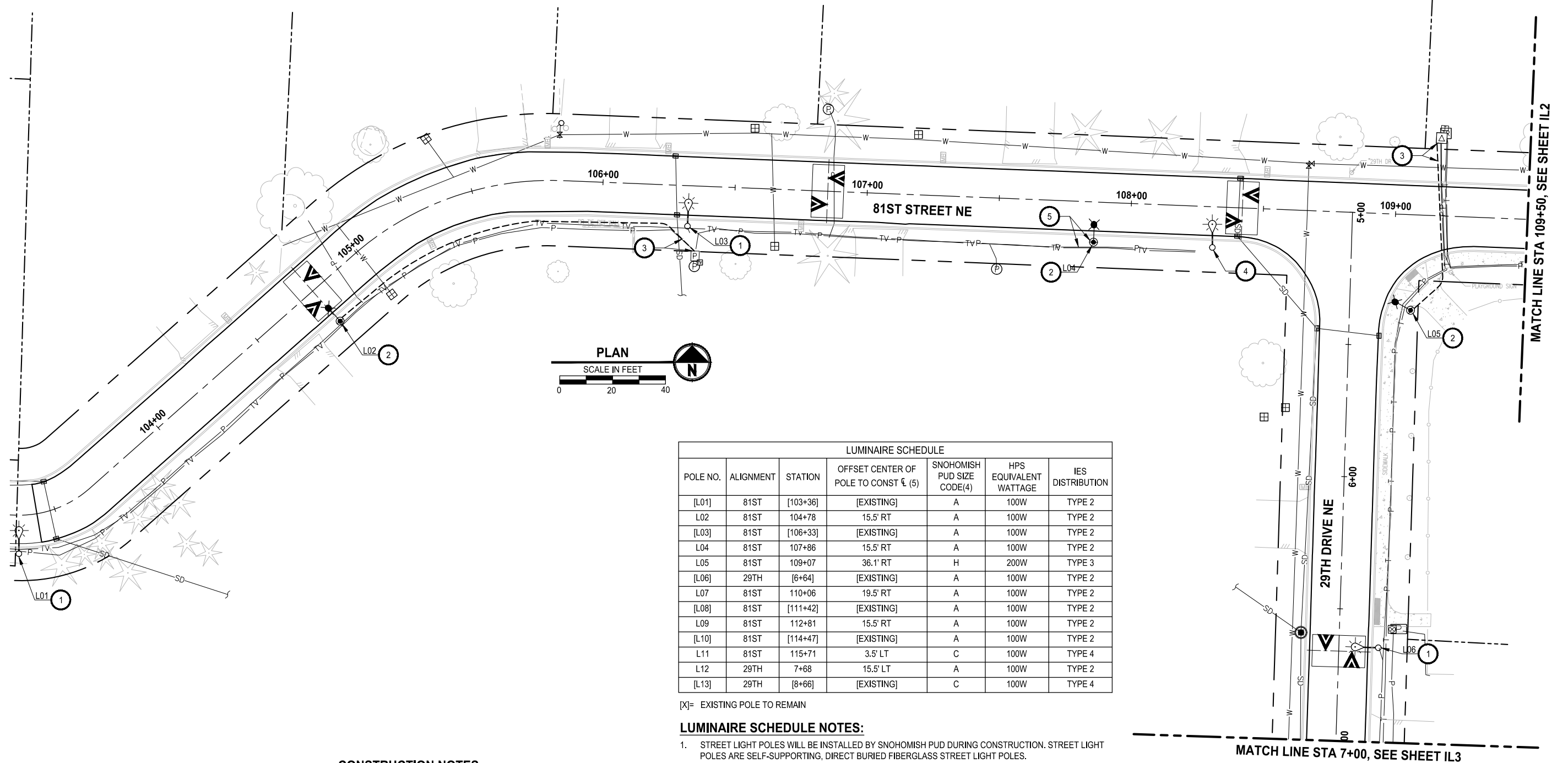
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PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
 81ST ST NE  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

**STORM DRAINAGE DETAILS**  
**CHAMBER SYSTEM TECHNICAL**  
**SPECIFICATION**

DRAWING NO.  
 18 OF 21  
**SDD3**

PATH: U:\PSO\Projects\Clients\1598-Tulip\1598-Tulip\1598-140-2021\mri\Rehab\Projects\995\ca\cadd\dwg\81st PLOTTED BY: Sualidini DATE: Tuesday, April 26, 2022 4:08:10 PM LAYOUT: IL1



| LUMINAIRE SCHEDULE |           |          |   |                            |                        |                  |
|--------------------|-----------|----------|---|----------------------------|------------------------|------------------|
| POLE NO.           | ALIGNMENT | STATION  | OFFSET CENTER OF POLE TO CONST $\ell$ (5) | SNOHOMISH PUD SIZE CODE(4) | HPS EQUIVALENT WATTAGE | IES DISTRIBUTION |
| [L01]              | 81ST      | [103+36] | [EXISTING]                                | A                          | 100W                   | TYPE 2           |
| L02                | 81ST      | 104+78   | 15.5' RT                                  | A                          | 100W                   | TYPE 2           |
| [L03]              | 81ST      | [106+33] | [EXISTING]                                | A                          | 100W                   | TYPE 2           |
| L04                | 81ST      | 107+86   | 15.5' RT                                  | A                          | 100W                   | TYPE 2           |
| L05                | 81ST      | 109+07   | 36.1' RT                                  | H                          | 200W                   | TYPE 3           |
| [L06]              | 29TH      | [6+64]   | [EXISTING]                                | A                          | 100W                   | TYPE 2           |
| L07                | 81ST      | 110+06   | 19.5' RT                                  | A                          | 100W                   | TYPE 2           |
| [L08]              | 81ST      | [111+42] | [EXISTING]                                | A                          | 100W                   | TYPE 2           |
| L09                | 81ST      | 112+81   | 15.5' RT                                  | A                          | 100W                   | TYPE 2           |
| [L10]              | 81ST      | [114+47] | [EXISTING]                                | A                          | 100W                   | TYPE 2           |
| L11                | 81ST      | 115+71   | 3.5' LT                                   | C                          | 100W                   | TYPE 4           |
| L12                | 29TH      | 7+68     | 15.5' LT                                  | A                          | 100W                   | TYPE 2           |
| [L13]              | 29TH      | [8+66]   | [EXISTING]                                | C                          | 100W                   | TYPE 4           |

[X]= EXISTING POLE TO REMAIN

**LUMINAIRE SCHEDULE NOTES:**

- STREET LIGHT POLES WILL BE INSTALLED BY SNOHOMISH PUD DURING CONSTRUCTION. STREET LIGHT POLES ARE SELF-SUPPORTING, DIRECT BURIED FIBERGLASS STREET LIGHT POLES.
- STREET LIGHT POLES WILL BE ORIENTATED WITH MAST ARM PERPENDICULAR TO THE FACE OF CURB.
- STREET LIGHTS WILL HAVE A 30 FT MOUNTING HEIGHT AND 5'-8" MAST ARM.
- ALL FIXTURES WILL BE LED WITH 4000K CCT. FIXTURES TO BE SUPPLIED AND INSTALLED BY SNOHOMISH PUD. SIZE CODES PER SNOHOMISH PUD T&D GUIDELINE 4-14-1.3.
- OFFSET FROM CENTER OF POLE TO FACE OF CURB IS TYPICALLY 3 FT. CONTRACTOR SHALL TRENCH AND INSTALL CONDUIT TO THE POLE LOCATIONS SHOWN.

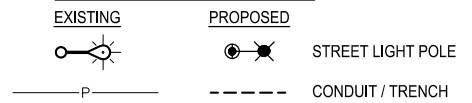
**GENERAL NOTES:**

- UTILITY LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. ALL UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO EXCAVATION. CALL (800) 424-5555 FOR UTILITY LOCATION SERVICES.
- POLE LOCATIONS MAY BE SLIGHTLY ADJUSTED AS REQUIRED TO AVOID UTILITY CONFLICTS. FINAL LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- CONDUIT RUNS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. FINAL LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICTS AND FOR EASE OF CONSTRUCTION. FINAL LOCATIONS FOR TRENCHES AND CONDUITS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- ALL CONDUIT RUNS SHOWN ON THE PLANS SHALL INCLUDE ONE 2 INCH DIAMETER PVC CONDUIT. ALL CONDUITS SHALL CONTAIN PULL TAPE/ROPE.

**CONSTRUCTION NOTES:**

- PROTECT EXISTING STREET LIGHT POLE TO REMAIN. SNOHOMISH PUD TO REPLACE EXISTING FIXTURE PER LUMINAIRE SCHEDULE, SHEET IL1.
- DURING CONSTRUCTION SNOHOMISH PUD TO INSTALL DIRECT BURY POLE, MAST ARM AND LUMINAIRE PER LUMINAIRE SCHEDULE.
- CONTRACTOR SHALL TRENCH AND INSTALL CONDUIT WITH PULL TAPE UP TO SNOHOMISH PUD CONNECTION POINT. SNOHOMISH PUD TO PULL WIRE AND MAKE CONNECTIONS.
- SNOHOMISH PUD TO REMOVE AND SALVAGE EXISTING STREET LIGHT POLE, MAST ARM AND LUMINAIRE.
- CONTRACTOR SHALL COORDINATE WITH SNOHOMISH PUD FOR CONNECTION OF POLE TO EXISTING CONDUIT/WIRING PREVIOUSLY USED FOR CONNECTION TO REMOVED POLE. WHEN APPROVED BY SNOHOMISH PUD, CONTRACTOR SHALL LOCATE, INTERCEPT AND EXTEND EXISTING CONDUIT TO NEW FOUNDATION LOCATION.

**ILLUMINATION LEGEND:**



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| REVISIONS | DATE | BY | DESIGNED               |
|-----------|------|----|------------------------|
|           |      |    | M. KENDALL             |
|           |      |    | DRAWN M. KENDALL       |
|           |      |    | CHECKED C. SCHOTT      |
|           |      |    | APPROVED H. LONGFELLOW |

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04/26/2022

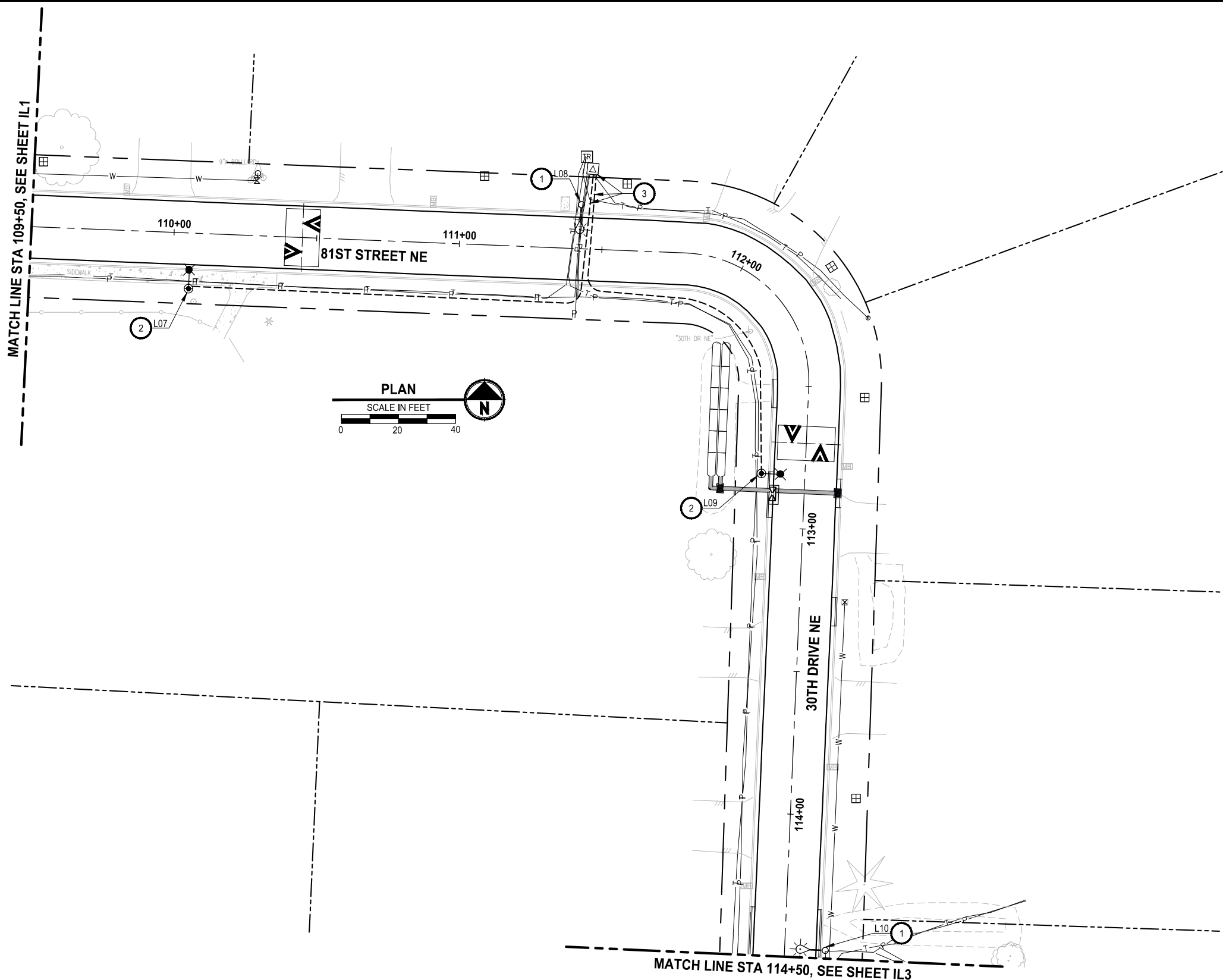
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PROJECT NAME  
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**81ST ST NE**  
**THE TULALIP TRIBES**  
 TULALIP, WASHINGTON

**ILLUMINATION SHEET**

DRAWING NO.  
19 OF 21  
**IL1**

LAYOUT: IL2  
 PATH: U:\PSO\Projects\Clients\1598-TulipTribes\1598-140-2021PmiRehabProjects\995\CA\ADD\DWG\81ST  
 PLOTTED BY: SunilDmi DATE: Tuesday, April 26, 2022 4:15:14 PM



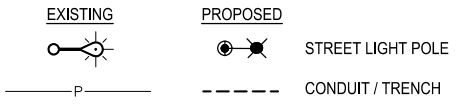
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2. POLE LOCATIONS MAY BE SLIGHTLY ADJUSTED AS REQUIRED TO AVOID UTILITY CONFLICTS. FINAL LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
3. CONDUIT RUNS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. FINAL LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICTS AND FOR EASE OF CONSTRUCTION. FINAL LOCATIONS FOR TRENCHES AND CONDUITS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
4. ALL CONDUIT RUNS SHOWN ON THE PLANS SHALL INCLUDE ONE 2 INCH DIAMETER PVC CONDUIT. ALL CONDUITS SHALL CONTAIN PULL TAPE/ROPE.
5. SEE SHEET IL1 FOR LUMINAIRE SCHEDULE.

**CONSTRUCTION NOTES:**

- ① PROTECT EXISTING STREET LIGHT POLE TO REMAIN. SNOHOMISH PUD TO REPLACE EXISTING FIXTURE PER LUMINAIRE SCHEDULE, SHEET IL1.
- ② DURING CONSTRUCTION SNOHOMISH PUD TO INSTALL DIRECT BURY POLE, MAST ARM AND LUMINAIRE PER LUMINAIRE SCHEDULE.
- ③ CONTRACTOR SHALL TRENCH AND INSTALL CONDUIT WITH PULL TAPE UP TO SNOHOMISH PUD CONNECTION POINT. SNOHOMISH PUD TO PULL WIRE AND MAKE CONNECTIONS.

**ILLUMINATION LEGEND:**



| REVISIONS | DATE | BY | DESIGNED                  |
|-----------|------|----|---------------------------|
|           |      |    | M. KENDALL                |
|           |      |    | DRAWN<br>M. KENDALL       |
|           |      |    | CHECKED<br>C. SCHOTT      |
|           |      |    | APPROVED<br>H. LONGFELLOW |

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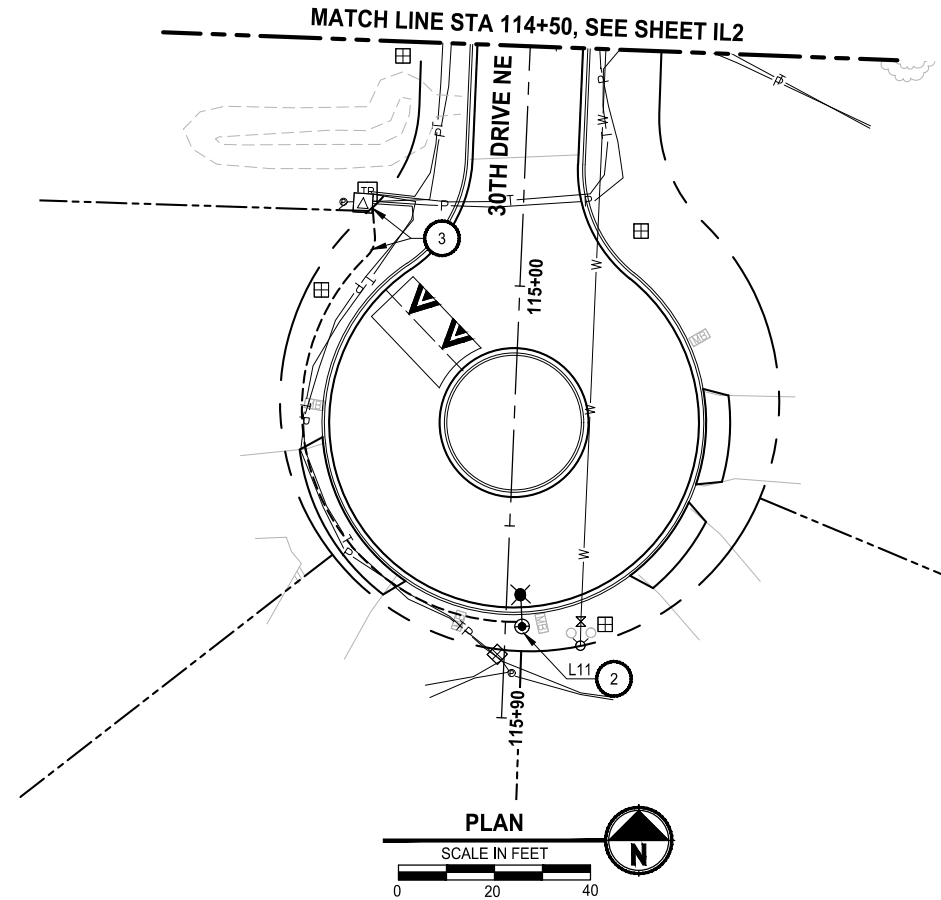
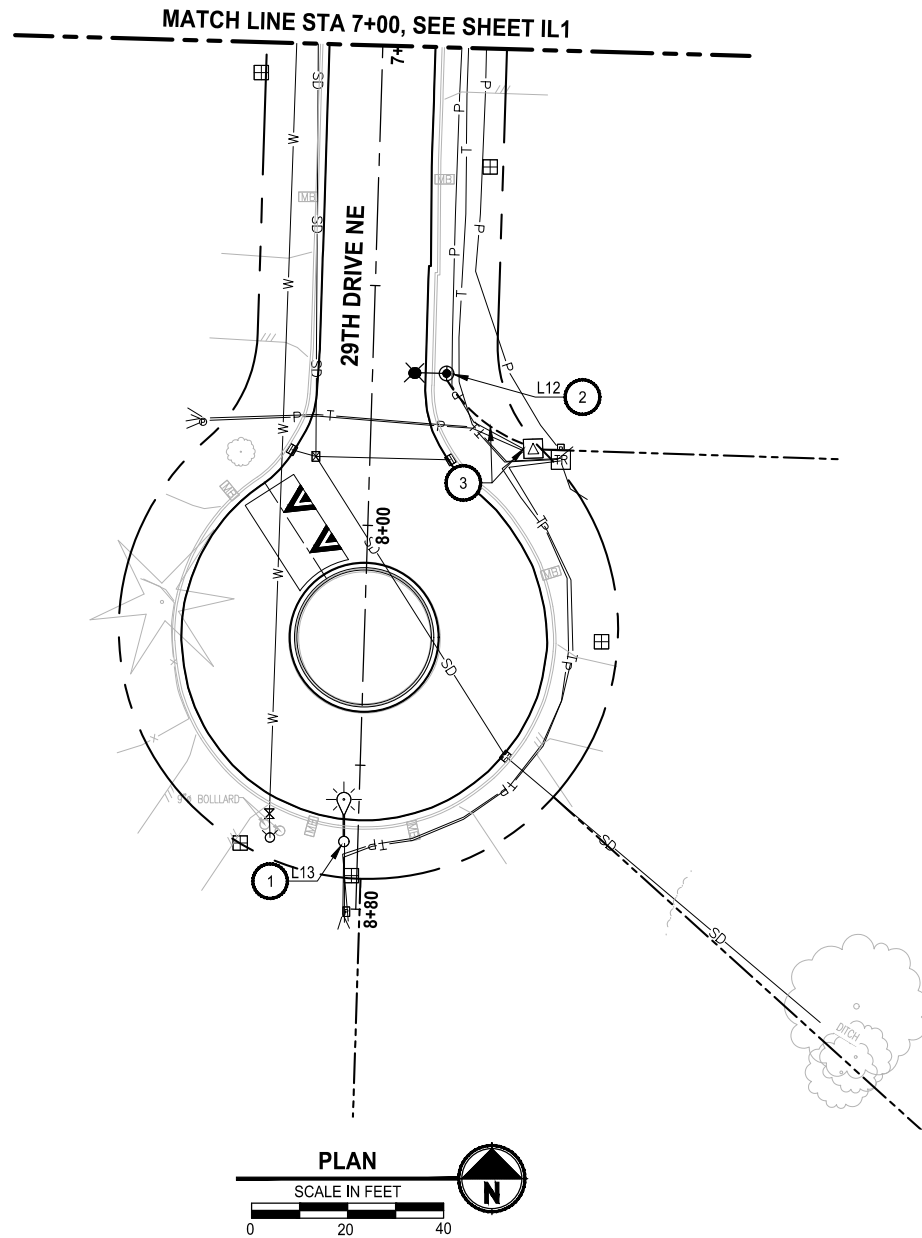
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**ILLUMINATION SHEET**

DRAWING NO.  
 20 OF 21  
**IL2**

LAYOUT: IL3  
 PATH: U:\PSO\Projects\Clients\1598-TulipTribes\1598-140-2021PmiRehabProjects\995\cadd\DWG\81ST  
 PLOTTED BY: SunIDmi DATE: Tuesday, April 26, 2022 4:16:16 PM



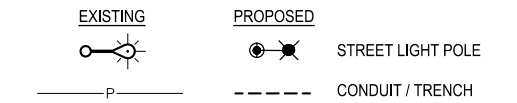
**GENERAL NOTES:**

1. UTILITY LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. ALL UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO EXCAVATION. CALL (800) 424-5555 FOR UTILITY LOCATION SERVICES.
2. POLE LOCATIONS MAY BE SLIGHTLY ADJUSTED AS REQUIRED TO AVOID UTILITY CONFLICTS. FINAL LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
3. CONDUIT RUNS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. FINAL LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICTS AND FOR EASE OF CONSTRUCTION. FINAL LOCATIONS FOR TRENCHES AND CONDUITS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
4. ALL CONDUIT RUNS SHOWN ON THE PLANS SHALL INCLUDE ONE 2 INCH DIAMETER PVC CONDUIT. ALL CONDUITS SHALL CONTAIN PULL TAPE/ROPE.
5. SEE SHEET IL1 FOR LUMINAIRE SCHEDULE.

**CONSTRUCTION NOTES:**

- 1 PROTECT EXISTING STREET LIGHT POLE TO REMAIN. SNOHOMISH PUD TO REPLACE EXISTING FIXTURE PER LUMINAIRE SCHEDULE, SHEET IL1.
- 2 DURING CONSTRUCTION SNOHOMISH PUD TO INSTALL DIRECT BURY POLE, MAST ARM AND LUMINAIRE PER LUMINAIRE SCHEDULE.
- 3 CONTRACTOR SHALL TRENCH AND INSTALL CONDUIT WITH PULL TAPE UP TO SNOHOMISH PUD CONNECTION POINT. SNOHOMISH PUD TO PULL WIRE AND MAKE CONNECTIONS.

**ILLUMINATION LEGEND:**



Know what's below.  
Call before you dig.

| REVISIONS | DATE | BY | DESIGNED      |
|-----------|------|----|---------------|
|           |      |    | M. KENDALL    |
|           |      |    | M. KENDALL    |
|           |      |    | C. SCHOTT     |
|           |      |    | H. LONGFELLOW |

**ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY**  
 FILE NAME  
 PU5541598140-81st-IL  
 JOB No.  
 554-1598-140  
 DATE  
 APRIL 2022



04/26/2022

**Parametrix**  
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PROJECT NAME  
**PAVEMENT REHABILITATION 2021**  
 81ST ST NE  
 THE TULALIP TRIBES  
 TULALIP, WASHINGTON

**ILLUMINATION  
 SHEET**

DRAWING NO.  
 21 OF 21  
**IL3**