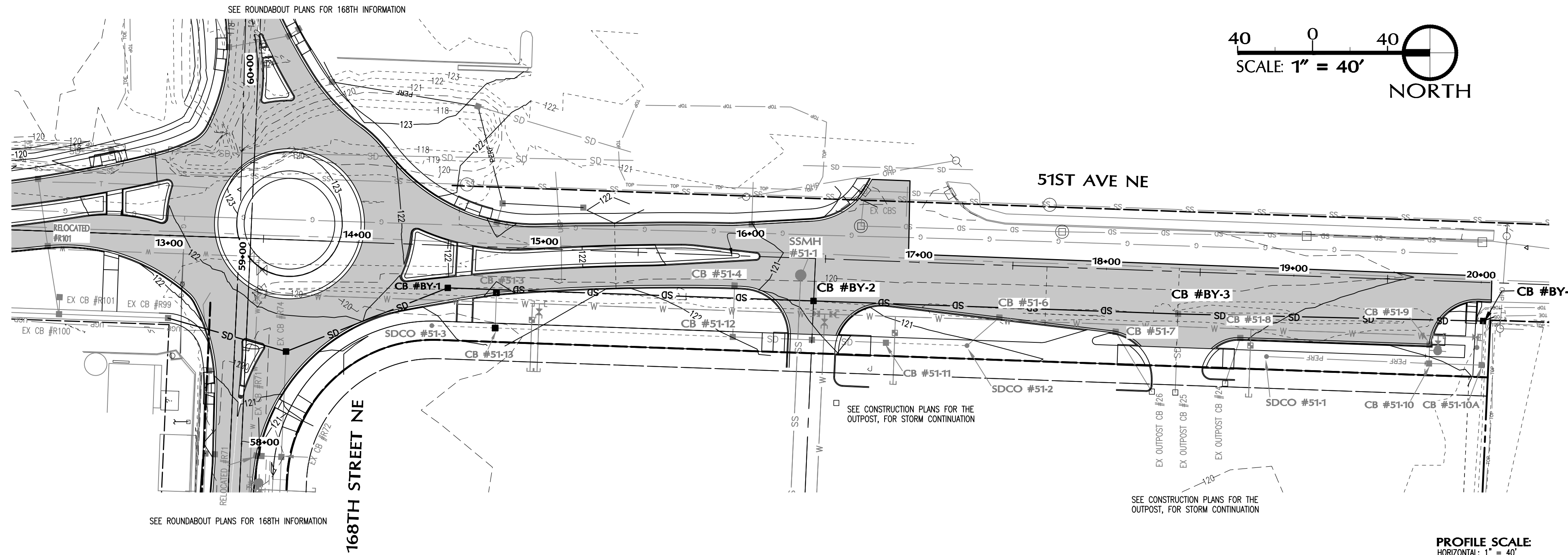
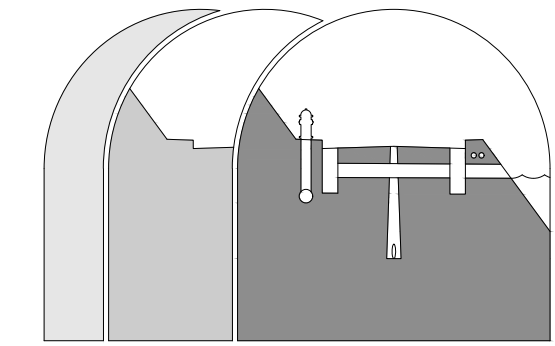


IN A PORTION OF SECTION 28, TOWNSHIP 31 N., RANGE 5 E., W.M.



Structure Table	
Structure Name	Structure Details
CB #BY-1 - TYPE I, SOLID LOCKING TOP 51ST AVE. 14+49.2, 22.6' RT	RIM = 121.42 IE 12" SD IN N = 118.80 IE 12" SD OUT S = 118.51
CB #BY-2 - TYPE I, SOLID LOCKING TOP 51ST AVE. 16+44.4, 22.6' RT	RIM = 120.78 IE 12" SD IN N = 118.05 IE 12" SD IN W = 118.05 IE 12" SD OUT S = 118.05
CB #BY-3 - TYPE I, SOLID TOP 51ST AVE. 18+39.0, 22.6' RT	RIM = 120.25 IE 12" SD IN N = 117.62 IE 8" SD IN W = 117.62 IE 12" SD OUT S = 117.62
CB #BY-4 - TYPE I, SOLID LOCKING TOP 51ST AVE. 20+01.7, 20.6' RT	RIM = 119.71 IE 12" SD IN N = 117.26 IE 8" SD IN W = 117.50 IE 12" SD OUT S = 117.26
EX. CB #R74, 168TH STREET NE 58+50.2, 21.5' RT	RIM = 121.47 IE 8" SD IN W = 117.50 IE 12" SD IN N = 119.00 IE 12" SD OUT S = 119.00
EX. CB #R99, 51ST AVE. 13+00.6, 44.0' RT	RIM = 121.50 IE 8" SD IN N = 118.50 IE 12" SD OUT S = 119.14



Sound Development Group
ENGINEERING, SURVEYING & LAND DEVELOPMENT SERVICES
P.O. Box 1705 • 1111 Cleveland Avenue, Suite 202
Mount Vernon, WA 98273 Tel: 360-404-2010

SHEET REVISIONS:			
NO.	DATE	DESCRIPTION	APPROVED
1	11.15.21	CIVIL PLAN SET	T.ZEMPEL/P.SEVERIN
2	03.30.22	CITY REV.	T.ZEMPEL/P.SEVERIN
3	04.27.22	BYPASS ADDENDUM	T.ZEMPEL/P.SEVERIN

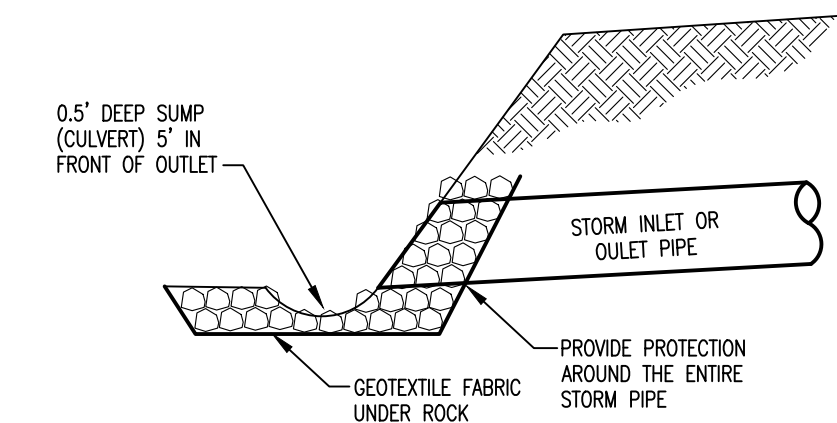
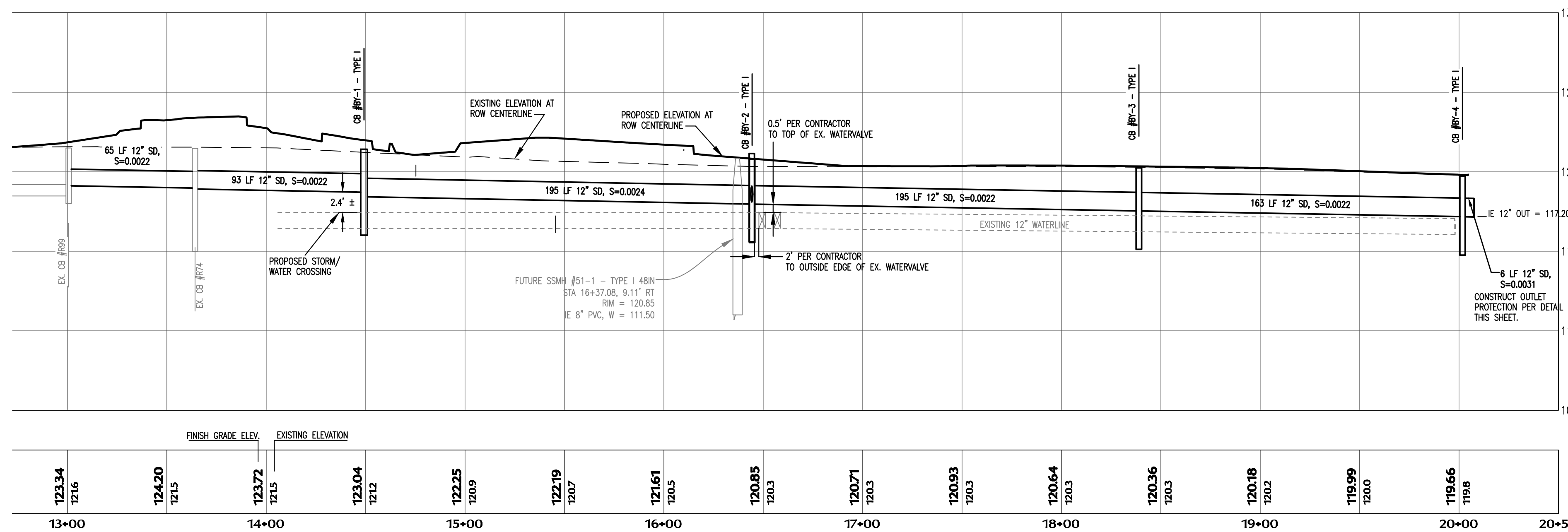
**CALL 48 HOURS
BEFORE YOU DIG
1.800.424.5555**

**51ST ROUNDABOUT
IMPROVEMENTS
FOR
ARLINGTON 51ST ST LLC**

**51ST AVE STORMWATER
BYPASS ADDENDUM
PLAN & PROFILE**

PROJECT:

SHEET DESCRIPTION:



GENERAL NOTES:

- QUARRY SPALL PADS SHALL BE CONSTRUCTED TO DISPERSE INLET FLOWS TO REDUCE INLET AND OUTLET VELOCITIES, AND TO PREVENT CONCENTRATED EROSION.
- SPALLS SHALL BE CAST TO A MINIMUM 8" DEPTH, A MINIMUM OF 3x PIPE DIAMETER LENGTH, AND A 2x PIPE DIAMETER WIDTH. THE SPALLS SHALL BE MECHANICALLY COMPACTED SUCH THAT THE TOP OF SPALLS IS SET FLUSH WITH THE PIPE INVERT ELEVATION.
- QUARRY SPALLS SHALL CONFORM TO SECTION 9-13.6 OF THE 2018 STANDARD SPECIFICATIONS.

TYPICAL INLET/OUTLET PROTECTION DETAIL (A) 1
NOT TO SCALE

SHEET NOTES:

THIS SHEET IS AN ADDENDUM TO THE 51ST AVE AND 168TH STREET ROUNDABOUT DESIGN CIVIL PLANS. ALL SPECIFICATIONS AND DETAILS NOTED ON THOSE PLANS SHALL BE APPLIED AND INCORPORATED INTO THIS CONSTRUCTION. CONTRACTOR SHALL ACQUIRE THE DETAILS AND SPECIFICATIONS FROM THAT PLAN SET PRIOR TO CONSTRUCTION.

NO FURTHER ROUNDABOUT IMPROVEMENTS ARE TO BE CONSIDERED, BEYOND THIS SHEET, UNTIL SAID ROUNDABOUT CONSTRUCTION PLANS ARE APPROVED. NO CONNECTION POINTS TO CBS #BY-1 THRU BY-6 SHALL BE CONSTRUCTED FOR FUTURE 51ST STORMWATER DESIGN.

CONTRACTOR TO POTHOLE AND VERIFY EACH WATERLINE CROSSING PRIOR TO ANY STORMWATER LINE WORK. LOCATION AND ELEVATIONS SHALL BE PROVIDED TO ENGINEER UPON DISCOVERY.

**Outpost Bypass system
Pipe Velocities/capacity**

Assumptions:

- Pipes are flowing full
- Mannings Ropughness Coefficient 0.01 (pvc, ads)
- Hydraulic grade line assumed to be rim elevation at Cb #99 to outfall.

Pipe Dia	Mannings	dia.	slope	area	Rh	Q	V
"in"	"n"	ft.		sq.ft.		cfs	fps
12.00	0.010	1.00	0.0060	0.79	0.25	3.59	4.6

SCALE: **AS NOTED**

DRAWN BY: **T.ZEMPEL**

DESIGNED BY: **T.ZEMPEL**

DATE: **04.27.22**

JOB NUMBER: **18098**

DWG NAME: **18098.RA.PS-2.DWG**

SHEET NUMBER:

**1 OF 1
ADDM #1**

CITY OF ARLINGTON
CONSTRUCTION DRAWING REVIEW APPROVAL

THIS PLAN SHEET HAS BEEN REVIEWED AND APPROVED PER THE CONDITIONS ON THE TITLE SHEET.

BY: _____
Nova Heaton, PE, Development Services Manager

DATE: _____ THIS APPROVAL IS VALID FOR 18 MONTHS