



# CITY OF MERCER ISLAND

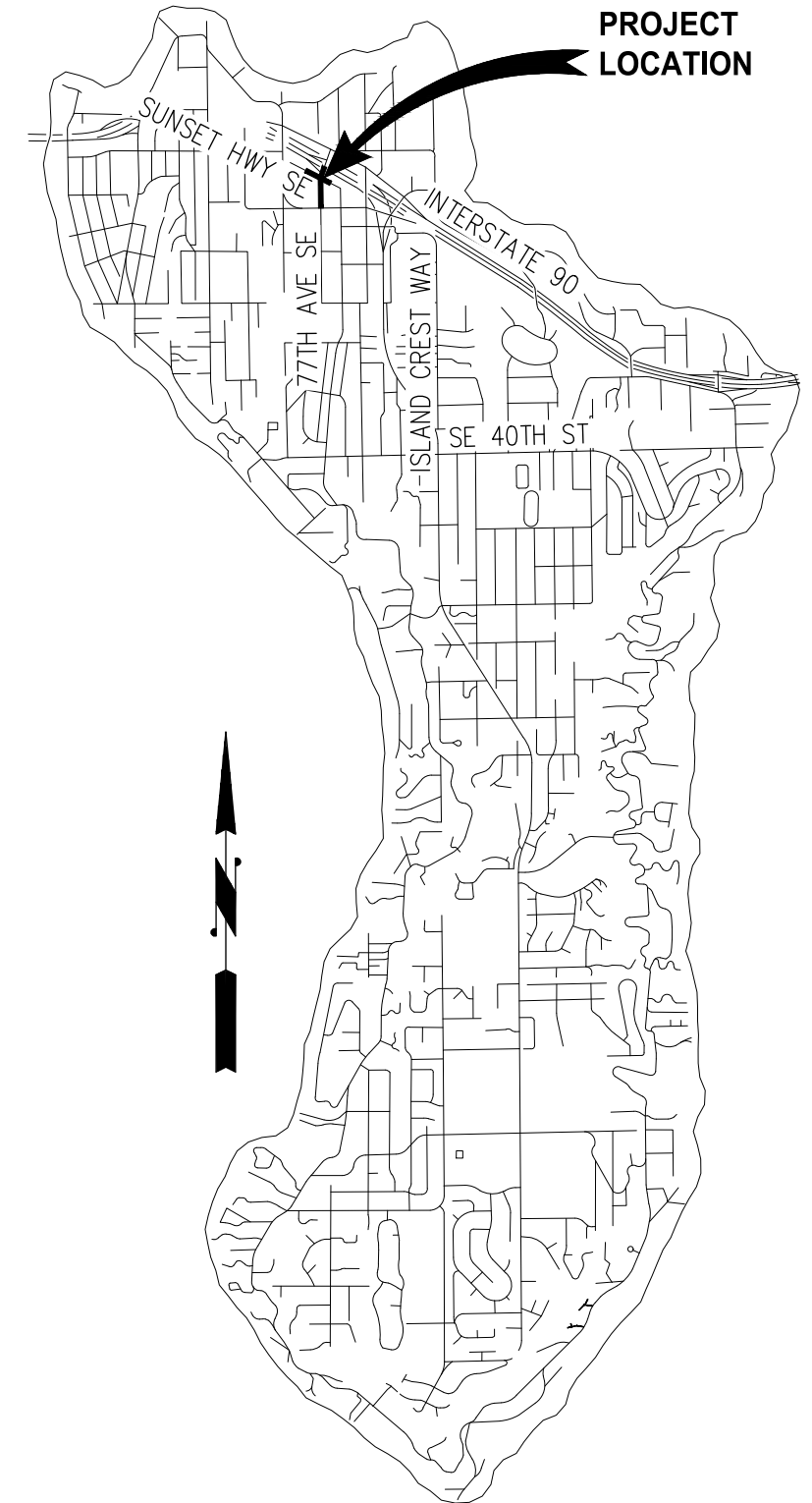
## 77TH AVE SE & SUNSET HWY SE INTERSECTION IMPROVEMENTS

JUNE 2022

CITY PROJECT NUMBER: SP120

### SCHEDULE OF DRAWINGS

SHEET	DRAWINGS
1	COVER SHEET
2	LEGEND & ABBREVIATIONS
3	ALIGNMENT & SURVEY CONTROL PLAN
4	TYPICAL SECTIONS
5	SITE PREPARATION & TESC PLANS
6-10	ROADWAY & SIDEWALK PLAN & DETAILS
11	RAISED INTERSECTION PLAN
12	RAISED INTERSECTION GRADING PLAN
13	RAISED INTERSECTION CENTERLINE PROFILES
14-17	CURB RAMP DETAILS
18	BIKE RAMP DETAIL
19	DRIVEWAY DETAIL
20-21	STORMWATER PLAN & PROFILE & DETAILS
22-24	CHANNELIZATION PLAN & DETAILS
25-26	ILLUMINATION & RRFB PLAN & DETAILS
27-30	TRAFFIC CONTROL & DETOUR PLANS



CALL 2 DAYS  
BEFORE YOU DIG  
1-800-424-5555

100% REVIEW  
SUBMITTAL

**LEGEND**

**EXISTING**

- MIC MONUMENT IN CASE
- △ MAG NAIL/SPIKE
- RC REBAR & CAP
- ⊗ SPOT SHOT (DESCRIBED)
- CATCH BASIN
- ⊕ STORM DRAIN MANHOLE
- ⊕ YARD DRAIN
- SEWER MANHOLE
- SS SEWER CLEAN-OUT
- P POWER VAULT LID
- ⊗ JUNCTION BOX
- STREET LIGHT (LUMINAIRE)
- LOT LIGHT
- YARD LIGHT
- ⊕ FIBER OPTIC MANHOLE
- ⊕ GAS VALVE
- ⊕ WATER VALVE
- ⊕ WATER METER
- ⊕ WATER MANHOLE
- W WATER VAULT LID
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECT
- ⊗ POST INDICATOR VALVE
- ⊗ IRRIGATION CONTROL VALVE
- ⊕ MONITORING WELL
- ⊕ GUARD POST
- P SIGN
- SHRUB
- DECIDUOUS TREE, DIAMETER (# OF TRUNKS)
- CONIFEROUS TREE, DIAMETER (# OF TRUNKS)
- P PAINTED POWER
- T PAINTED TELEPHONE
- W PAINTED WATER
- G PAINTED GAS
- SD STORM
- S SEWER
- HEDGE (HEIGHT NOTED)
- BUILDING

**PROPOSED**

- · · · · REMOVE CURB AND GUTTER
- · · · · REMOVE/ABANDON PIPE
- FULL DEPTH SAWCUT
- PROPERTY LINE
- RIGHT OF WAY
- C ----- CUT LINE
- F ----- FILL LINE
- STORM DRAIN PIPE
- # ----- STORM DRAINAGE STRUCTURE ID NUMBER
- ----- CATCH BASIN TYPE 1
- ----- CATCH BASIN TYPE 2
- ▶ ----- DIRECTIONAL FLOW ARROW
- ⬢ ----- INLET PROTECTION
- ----- REMOVE DECIDUOUS TREE
- ▭ ----- REMOVE ASPHALT/CONCRETE PAVEMENT
- ▭ ----- REMOVE CEMENT CONCRETE
- ▭ ----- CEMENT CONCRETE LANDING
- ▭ ----- HMA CL 1/2" PG 58H-22
- ▭ ----- SCORED CEMENT CONCRETE
- ▭ ----- STAMPED CEMENT CONCRETE
- ▭ ----- DETECTABLE WARNING SURFACE
- ⊖ ----- SIGN
- ⬄ ----- RRFB

**ABBREVIATIONS**

AC	ASPHALT/CONCRETE	MH	MANHOLE
ACP	ASPHALT CONCRETE PAVEMENT	MIC	MONUMENT IN CASE
ADA	AMERICANS WITH DISABILITIES ACT	MJ	MECHANICAL JOINT
AP	ANGLE POINT	MON	MONUMENT
APPROX	APPROXIMATE	MTS	MOUNTAINS TO SOUND
BLDG	BUILDING	N	NORTH OR NORTHING
CB	CATCH BASIN	NAVD	NORTH AMERICAN VERTICAL DATUM
CCP	CEMENT CONCRETE PAVEMENT	NB	NORTHBOUND
CDF	CONTROLLED DENSITY FILL	NO	NUMBER
CHLK	CHAINLINK	NTS	NOT TO SCALE
Ⓢ	CENTERLINE	OC	ON CENTER
CL	CLASS	OD	OUTSIDE DIAMETER
CO	CLEANOUT	PC	POINT OF CURVE
COMI	CITY OF MERCER ISLAND	PCC	POINT OF COMPOUND CURVATURE
COL	COLUMN	PCCP	PERVIOUS CEMENT CONCRETE PAVEMENT
CONC	CONCRETE	PI	POINT OF INTERSECTION
CSBC	CRUSHED SURFACING BASE COURSE	POB	POINT OF BEGINNING
CSTC	CRUSHED SURFACING TOP COURSE	POE	POINT OF ENDING
DI	DUCTILE IRON	PRC	POINT OF REVERSE CURVATURE
DIA	DIAMETER	PT	POINT OF TANGENT
DW	DRIVEWAY	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
E	EAST OR EASTING	PVT	POINT OF VERTICAL TANGENT
EA	EACH	PVI	POINT OF VERTICAL INTERSECTION
ELEV	ELEVATION	R	RADIUS
EOP	EDGE OF PAVEMENT	ROW	RIGHT OF WAY
EW	EACH WAY	RRFB	RAPID RECTANGULAR FLASHING BEACON
EXIST	EXISTING	RT	RIGHT
FF	FINISHED FLOOR	S	SLOPE OR SOUTH
FL	FLOW LINE	SB	SOUTHBOUND
FO	FIBER OPTIC	SD	STORM DRAIN
FOC	FACE OF CURB	SDMH	STORM DRAIN MANHOLE
HMA	HOT MIX ASPHALT	SE	SOUTHEAST
HORIZ	HORIZONTAL	SHT	SHEET
HP	HIGH POINT	SQ	SQUARE
HWY	HWY	SS	SANITARY SEWER
ID	INSIDE DIAMETER	SSMH	SANITARY SEWER MANHOLE
IE	INVERT ELEVATION	ST	STREET
IN	INCH/INCHES	STA	STATION
JB	JUNCTION BOX	STD	STANDARD
L	LENGTH	STCR	STRUCTURE
LT	LEFT	SW	SOUTHWEST
LF	LINEAR FEET	TYP	TYPICAL
LP	LOW POINT	UG	UNDERGROUND
MAX	MAXIMUM	VERT	VERTICAL
MIN	MINIMUM	WSDOT	WSDOT
		W	WEST
		YD	YARD DRAIN

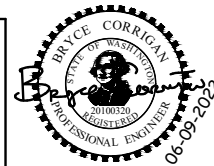
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NO.	DATE	BY	APPR.	REVISIONS

**Approved By**

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21103LEGND.dwg	FILENAME
MKE	12/21
DESIGNED BY	DATE
MKE	12/21
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BMC	12/21
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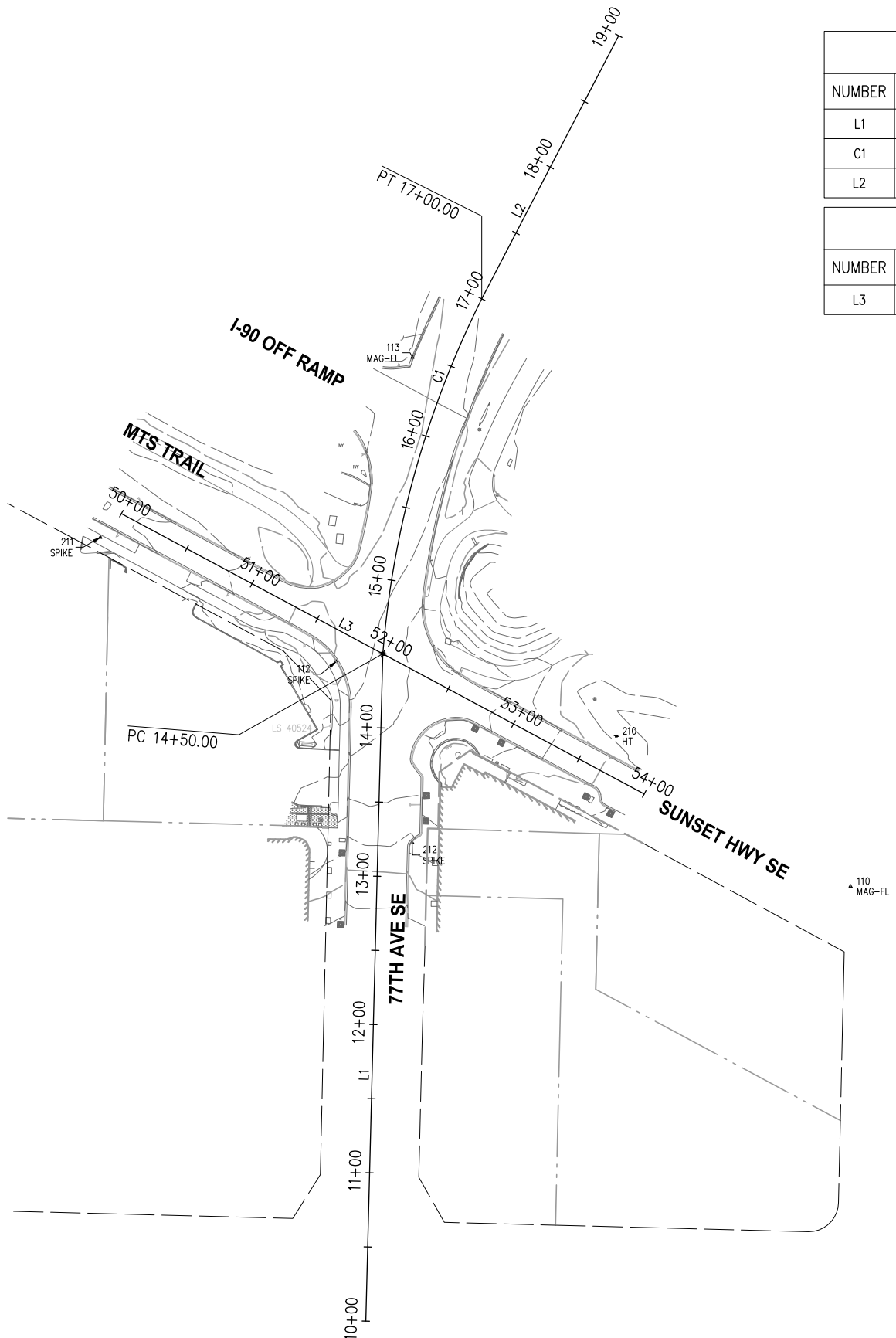
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**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE INTERSECTION IMPROVEMENTS**

<b>LEGEND &amp; ABBREVIATIONS</b>	
KPG PROJECT No. 21103	SHT <u>2</u> OF <u>30</u>

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77TH AVE SE								
NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
L1	10+00.00	217130.91	1294527.31	450.00'	N 1°27'24" E			
C1	14+50.00	217580.76	1294538.75	250.00'	22°02'12"	650.00'	15+76.56	126.56'
L2	17+00.00	217820.10	1294605.47	200.00'	N 27°29'20" E			

SUNSET HWY SE					
NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA
L3	50+00.00	217675.25	1294362.47	400.00'	S 61°48'30" E

- NOTES**
- THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING DESIGN. THIS IS NOT A BOUNDARY SURVEY. SOURCES OF BOUNDARY INFORMATION AS SHOWN INCLUDE FIELD-TIED MONUMENTATION, PLATS, COUNTY RECORDS OF SURVEY, AND AUDITOR INDEXING INFORMATION.
  - THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.  
  
THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
  - FIELD SURVEY: KPG, NOVEMBER, 2021. LICENSEE MICHAEL R. BOWEN, P.L.S. NO. 29294/RONALD D. REICHEL, P.L.S. NO. 38015.
  - CONTOUR INTERVAL = 1 FOOT, ±0.5 FOOT PER NATIONAL MAPPING STANDARDS. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
  - STORM AND SEWER CONNECTIONS HAVE BEEN DRAWN FROM CENTER OF LID TO CENTER OF LID.
  - THE LOCATIONS AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.
  - DUCTS ARE NOTED AS INDICATED IN THE FIELD BY UTILITY LOCATORS. MULTIPLE LINES AND/OR UTILITIES MAY SHARE DUCT RUNS; THIS MAY NOT BE SHOWN IN THE DRAWING.

**HORIZONTAL AND VERTICAL DATUM**

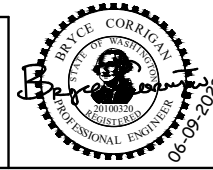
HORIZONTAL DATUM: NAD 83/11  
 VERTICAL DATUM: NAVD 88  
 HORIZONTAL AND VERTICAL DATUMS ESTABLISHED BY RTK GPS OBSERVATION UTILIZING WSRN (WASHINGTON STATE REFERENCE NETWORK)

CONTROL POINT LIST				
PT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
* 1	SPIKE	215341.92	1294797.02	86.48'
* 2	MAG-FL	215407.04	1294650.68	85.99'
* 3	MAG-FL	217191.10	1295381.89	100.69'
* 100	SPIKE	217106.00	1295716.28	104.41'
* 101	SPIKE	216664.25	1295306.55	91.58'
* 102	SPIKE	216332.24	1295298.79	96.03'
* 103	MAG-FL	216006.40	1295292.60	110.80'
109	MAG-FL	217316.70	1295192.61	100.56'
110	MAG-FL	217424.09	1294854.07	98.59'
112	SPIKE	217575.60	1294507.36	95.43'
113	MAG-FL	217780.61	1294558.73	96.75'
210	HT	217525.33	1294696.31	96.81'
211	SPIKE	217659.25	1294348.24	93.57'
212	SPIKE	217453.54	1294558.59	91.28'

\* POINT NOT SHOWN

NO.	DATE	BY	APPR.	REVISIONS

Approved By		21103CNTRL.dwg
ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	MKE 12/21
PROJECT ENGINEER	DATE	DESIGNED BY
		MKE 12/21
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		BMC 12/21
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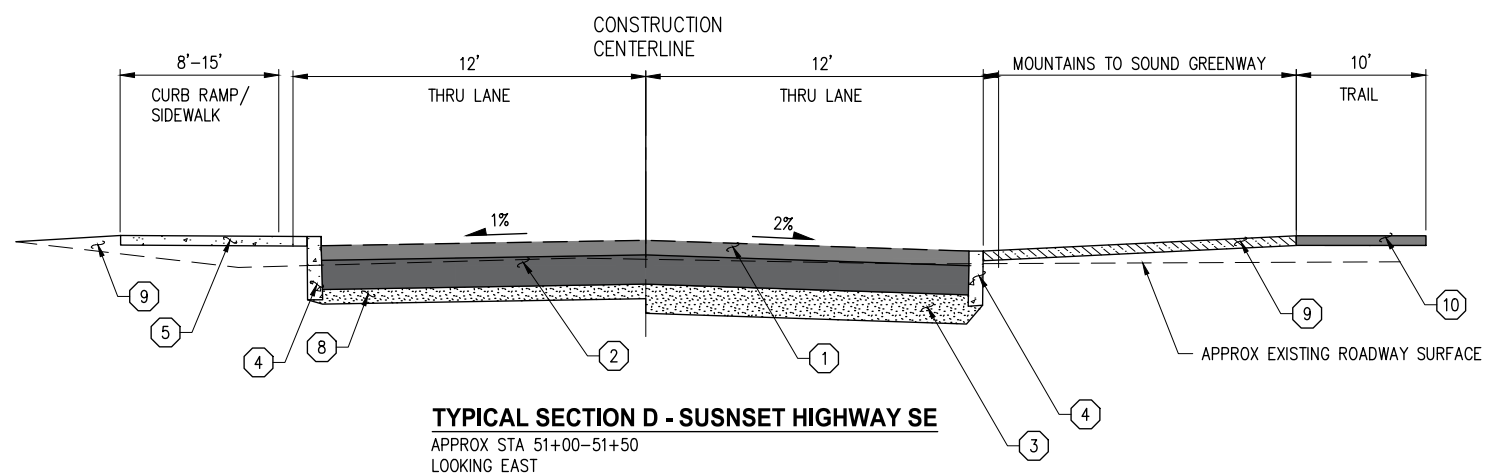
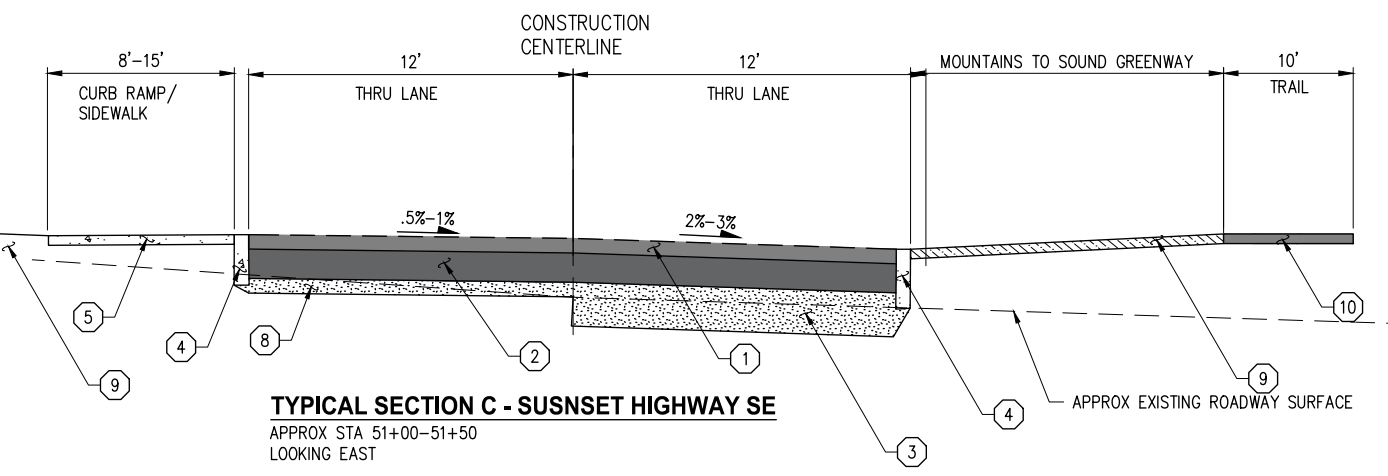
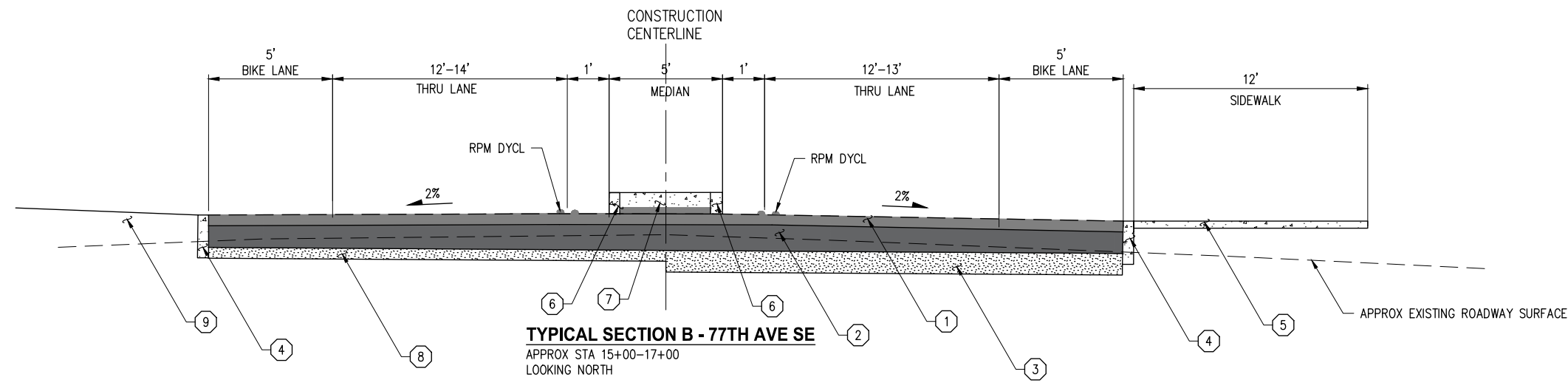
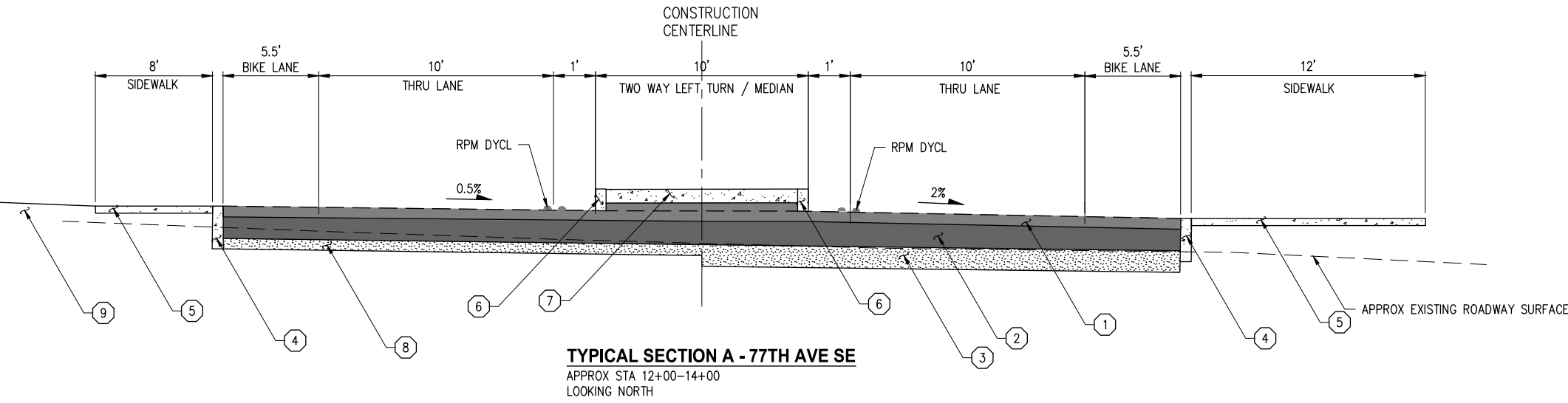


**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE**  
**INTERSECTION IMPROVEMENTS**

ALIGNMENT & SURVEY CONTROL PLAN	
KPG PROJECT No. 21103	SHT <u>3</u> OF <u>30</u>

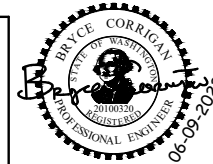
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MATERIAL CODE	
#	DESCRIPTION
1	2" HMA CL 1/2" PG 58H-22 OVERLAY
2	6" HMA CL 1/2" PG 58H-22
3	2"-8" CRUSHED SURFACING BASE COURSE
4	CEMENT CONC. TRAFFIC CURB
5	CEMENT CONCRETE SIDEWALK. SEE SECTION, SHEET 8.
6	EXTRUDED CURB
7	RAISED MEDIAN. SEE DETAIL, SHEET 10
8	APPROX 2" CRUSHED SURFACING TOP COURSE
9	LANDSCAPING. MATCH EXISTING SURFACING.
10	HMA TRAIL OR WALKWAY. SEE SECTION, SHEET 8.



NO.	DATE	BY	APPR.	REVISIONS

<b>Approved By</b>		21103RD-DET01.dwg
ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	BMC 5/22
PROJECT ENGINEER	DATE	DESIGNED BY
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		DRAWN BY
		BMC 5/22
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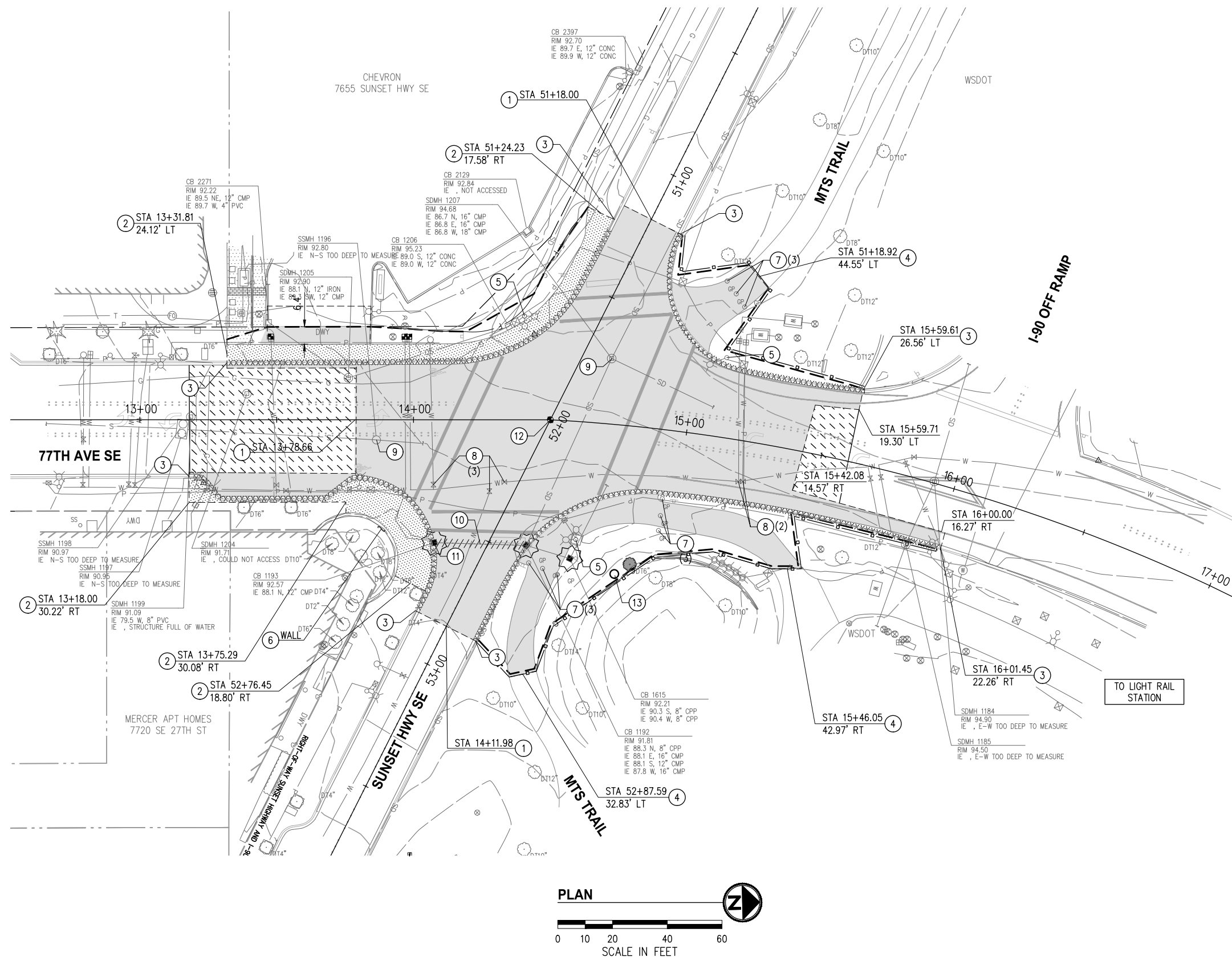


**CITY OF MERCER ISLAND**  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

<b>TYPICAL SECTIONS</b>	
KPG PROJECT No. 21103	SHT 4 OF 30



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**GENERAL NOTES**

1. CONTRACTOR SHALL SEQUENCE REMOVAL OF EXISTING FEATURES WITH CONSTRUCTION OF NEW ROADWAY ELEMENTS TO MINIMIZE IMPACTS TO PROPERTY OWNERS, TRAFFIC FLOW, AND THE ENVIRONMENT.
2. CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GROUND UTILITIES AND IMPROVEMENTS THAT ARE TO REMAIN.
3. CONTRACTOR SHALL PROTECT ALL PLANT MATERIAL OUTSIDE OF CLEARING LIMITS.
4. CONTRACTOR SHALL PROTECT ALL ART FEATURES WITHIN AND ADJACENT TO PROJECT AREA.
5. CONTRACTOR SHALL MAINTAIN ACCESS FOR ALL ADJACENT PROPERTY OWNERS.
6. CONTRACTOR SHALL FURNISH AND INSTALL INLET PROTECTION IN ALL EXISTING AND NEW CATCH BASINS PER WSDOT STD PLAN I-40.20.
7. ALL CONFLICTING CHANNELIZATION SHALL BE REMOVED AND REPLACED. SEE CHANNELIZATION AND SIGNING PLANS SHEETS 22-23.
8. PRIOR TO START OF CONSTRUCTION ACTIVITIES, COORDINATE WITH MERCER ISLAND PARKS DEPARTMENT TO LOCATE IRRIGATION HEADS AND VALVES WITHIN WORK AREA.

**CONSTRUCTION NOTES**

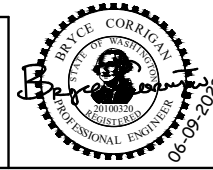
- ① SAWCUT AND REMOVE ASPHALT PAVEMENT.
- ② SAWCUT AND REMOVE CONCRETE SIDEWALK TO NEAREST JOINT.
- ③ SAWCUT AND REMOVE CEMENT CONCRETE CURB AND GUTTER.
- ④ SAWCUT AND REMOVE ASPHALT PATHWAY.
- ⑤ PROTECT EXISTING LUMINAIRE.
- ⑥ PROTECT
- ⑦ REMOVE EXISTING BOLLARDS.
- ⑧ PROTECT UTILITY VALVE COVER.
- ⑨ PROTECT UTILITY MANHOLE.
- ⑩ REMOVE STORM DRAIN PIPE.
- ⑪ REMOVE STORM DRAIN CATCH BASIN.
- ⑫ PROTECT MONUMENT, CASE AND COVER.
- ⑬ EXPOSE FACE OF CONCRETE STRUCTURE/OBJECT. NOTIFY ENGINEER PRIOR TO REMOVAL FOR INSPECTION AND DIRECTION.

**LEGEND**

- REMOVE CEMENT CONC PAVEMENT
- REMOVE ASPHALT PAVEMENT
- PAVEMENT GRINDING
- CONSTRUCTION ENTRANCE
- REMOVE PIPE
- REMOVE CURB AND GUTTER
- INLET PROTECTION
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- BUTT JOINT
- SAWCUT
- SILT FENCE
- HIGH VISIBILITY FENCE
- CLEARING LIMITS

NO.	DATE	BY	APPR.	REVISIONS

Approved By		FILENAME	DATE
ENGINEERING MANAGER	DATE	21103SP.dwg	5/22
PROJECT MANAGER	DATE	MKE	5/22
PROJECT ENGINEER	DATE	BMC	5/22
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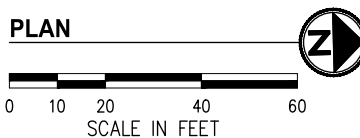
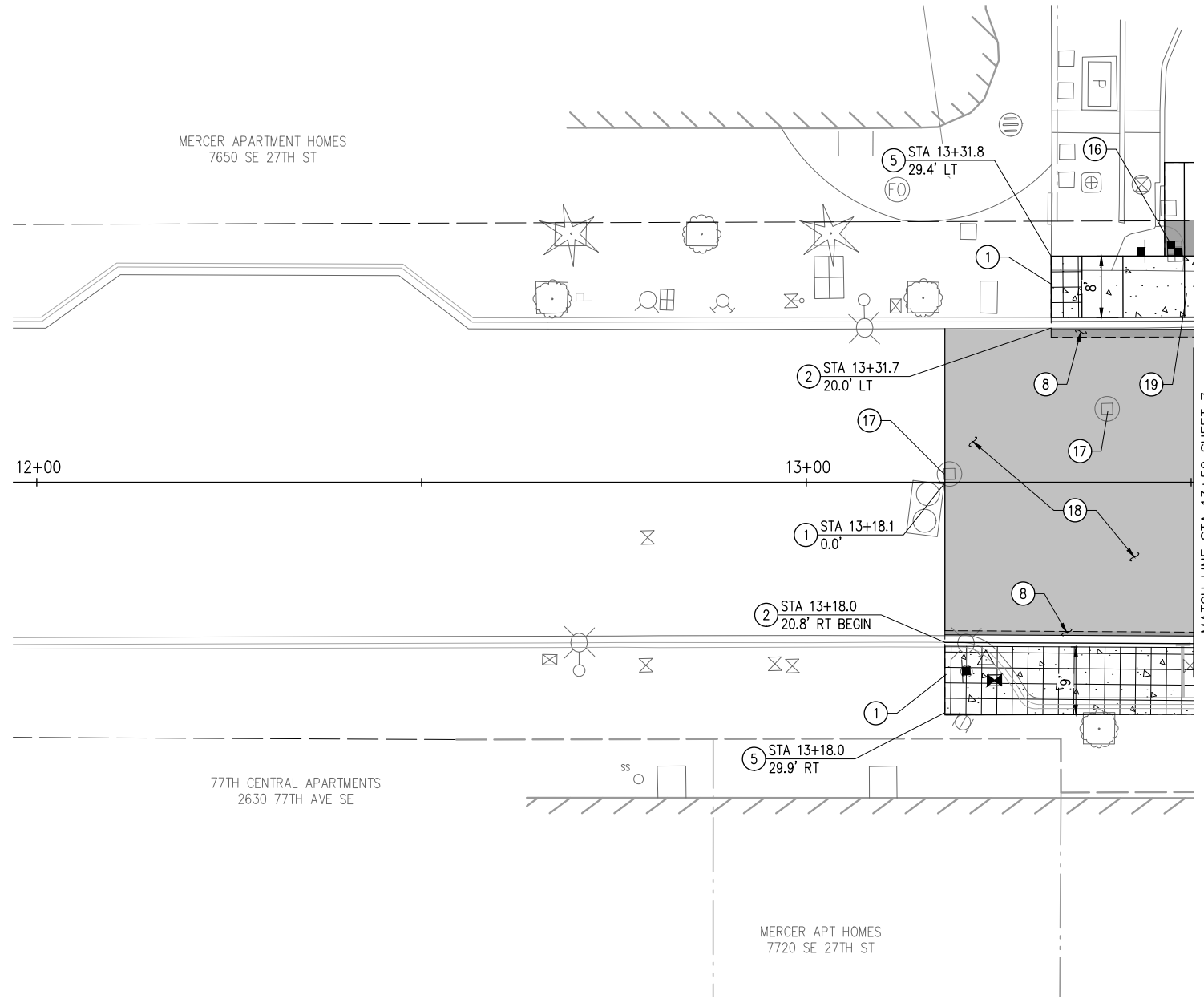
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**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE**  
**INTERSECTION IMPROVEMENTS**

SITE PREPARATION & TESC PLAN	
KPG PROJECT No. 21103	SHT 5 OF 30

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**GENERAL NOTES**

1. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY PEDESTRIAN ROUTE AROUND CONSTRUCTION ACTIVITY FOR THE DURATION OF THE PROJECT.
2. FOR INTERSECTION GRADING SEE INTERSECTION PLAN, SHEET 11.
3. FOR STORM IMPROVEMENTS SEE STORMWATER PLAN & PROFILE, SHEET 20.
4. FOR CHANNELIZATION IMPROVEMENTS SEE CHANNELIZATION PLAN, SHEETS 22-23.

**CONSTRUCTION NOTES**

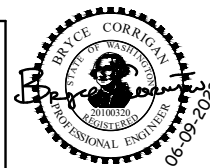
- ① MATCH EXISTING.
- ② CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F-10.12.
- ⑤ CONSTRUCT SCORED CEMENT CONC. SIDEWALK PER SECTION, SHEET 8.
- ⑧ HMA CL 1/2" PG 58H-22 FOR PAVEMENT PER SECTION, SHEET 8.
- ⑮ ADJUST MONUMENT CASE AND COVER. PROTECT AND PRESERVE MONUMENT.  
RELOCATE WATER METER AND WATER METER BOX TO BACK OF WALK.
- ⑯ CONTACT WATER DEPARTMENT AND NOTIFY CUSTOMER 24 HOURS PRIOR TO PERFORMING WORK.
- ⑰ ADJUST DRAINAGE STRUCTURE. FURNISH AND INSTALL NEW FRAME AND GRATE OR COVER.
- ⑱ GRIND 2" AND INSTALL HMA CL 1/2" PG 58H-22 FOR OVERLAY PER SECTION, SHEET 8.
- ⑲ CONSTRUCT CEMENT CONCRETE DRIVEWAY PER DETAIL, SHEET 19.
- ⑳ INSTALL BIKE RACK. SEE DETAIL SHEET, 9. FIELD LOCATE IN PRESENCE OF ENGINEER.

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**Approved By**

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PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21103RD.dwg	FILENAME
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5/22	DATE
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BMC	CHECKED BY
5/22	DATE



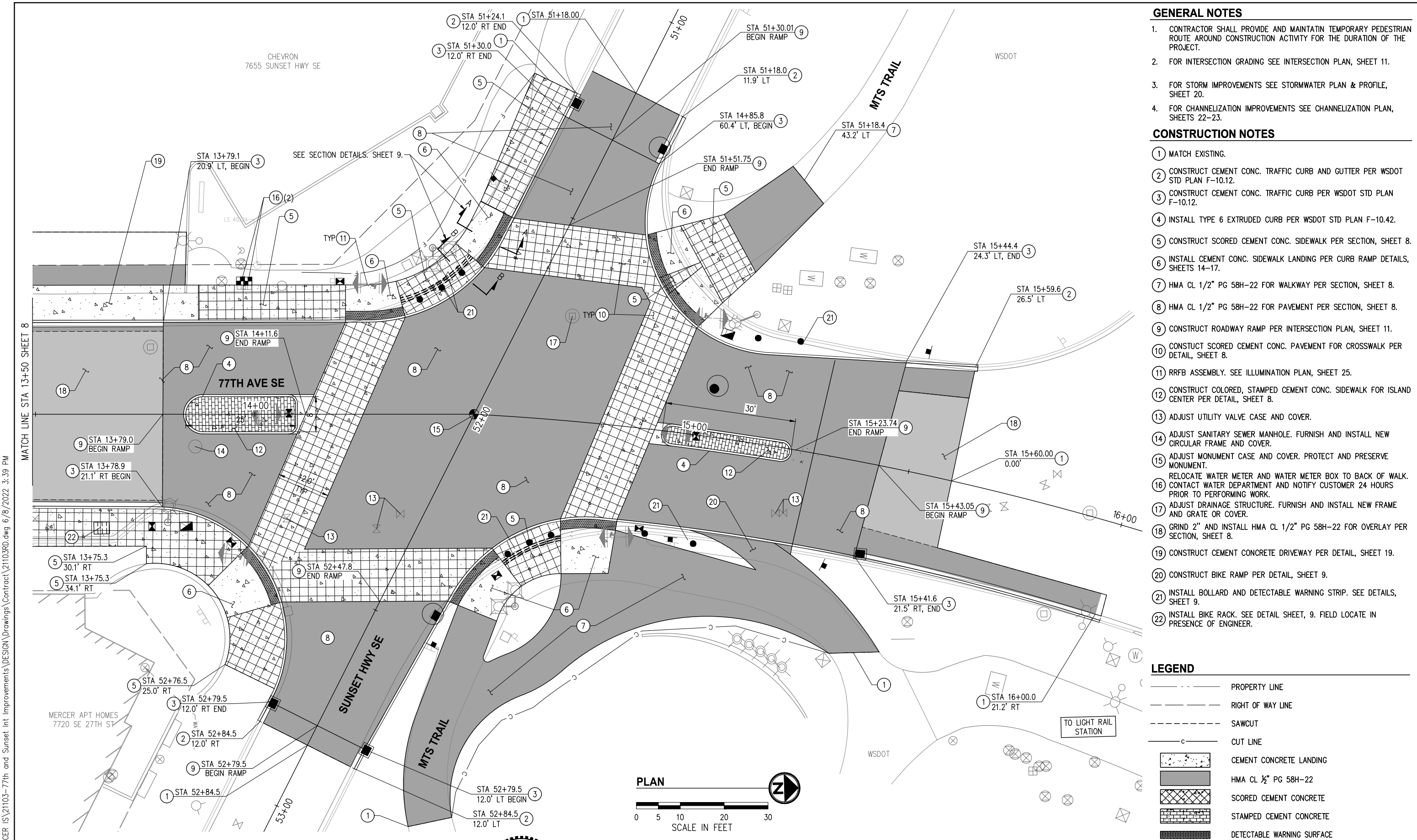
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**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE**  
**INTERSECTION IMPROVEMENTS**

ROADWAY AND SIDEWALK PLAN	
KPG PROJECT No. 21103	SHT <u>6</u> OF <u>30</u>



- GENERAL NOTES**
1. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY PEDESTRIAN ROUTE AROUND CONSTRUCTION ACTIVITY FOR THE DURATION OF THE PROJECT.
  2. FOR INTERSECTION GRADING SEE INTERSECTION PLAN, SHEET 11.
  3. FOR STORM IMPROVEMENTS SEE STORMWATER PLAN & PROFILE, SHEET 20.
  4. FOR CHANNELIZATION IMPROVEMENTS SEE CHANNELIZATION PLAN, SHEETS 22-23.

- CONSTRUCTION NOTES**
- 1 MATCH EXISTING.
  - 2 CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F-10.12.
  - 3 CONSTRUCT CEMENT CONC. TRAFFIC CURB PER WSDOT STD PLAN F-10.12.
  - 4 INSTALL TYPE 6 EXTRUDED CURB PER WSDOT STD PLAN F-10.42.
  - 5 CONSTRUCT SCORED CEMENT CONC. SIDEWALK PER SECTION, SHEET 8.
  - 6 INSTALL CEMENT CONC. SIDEWALK LANDING PER CURB RAMP DETAILS, SHEETS 14-17.
  - 7 HMA CL 1/2" PG 58H-22 FOR WALKWAY PER SECTION, SHEET 8.
  - 8 HMA CL 1/2" PG 58H-22 FOR PAVEMENT PER SECTION, SHEET 8.
  - 9 CONSTRUCT ROADWAY RAMP PER INTERSECTION PLAN, SHEET 11.
  - 10 CONSTRUCT SCORED CEMENT CONC. PAVEMENT FOR CROSSWALK PER DETAIL, SHEET 8.
  - 11 RRFB ASSEMBLY. SEE ILLUMINATION PLAN, SHEET 25.
  - 12 CONSTRUCT COLORED, STAMPED CEMENT CONC. SIDEWALK FOR ISLAND CENTER PER DETAIL, SHEET 8.
  - 13 ADJUST UTILITY VALVE CASE AND COVER.
  - 14 ADJUST SANITARY SEWER MANHOLE. FURNISH AND INSTALL NEW CIRCULAR FRAME AND COVER.
  - 15 ADJUST MONUMENT CASE AND COVER. PROTECT AND PRESERVE MONUMENT.
  - 16 RELOCATE WATER METER AND WATER METER BOX TO BACK OF WALK. CONTACT WATER DEPARTMENT AND NOTIFY CUSTOMER 24 HOURS PRIOR TO PERFORMING WORK.
  - 17 ADJUST DRAINAGE STRUCTURE. FURNISH AND INSTALL NEW FRAME AND GRATE OR COVER.
  - 18 GRIND 2" AND INSTALL HMA CL 1/2" PG 58H-22 FOR OVERLAY PER SECTION, SHEET 8.
  - 19 CONSTRUCT CEMENT CONCRETE DRIVEWAY PER DETAIL, SHEET 19.
  - 20 CONSTRUCT BIKE RAMP PER DETAIL, SHEET 9.
  - 21 INSTALL BOLLARD AND DETECTABLE WARNING STRIP. SEE DETAILS, SHEET 9.
  - 22 INSTALL BIKE RACK. SEE DETAIL SHEET, 9. FIELD LOCATE IN PRESENCE OF ENGINEER.

**LEGEND**

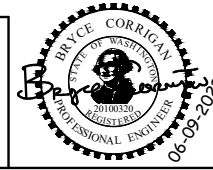
	PROPERTY LINE
	RIGHT OF WAY LINE
	SAWCUT
	CUT LINE
	CEMENT CONCRETE LANDING
	HMA CL 1/2" PG 58H-22
	SCORED CEMENT CONCRETE
	STAMPED CEMENT CONCRETE
	DETECTABLE WARNING SURFACE

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**Approved By**

ENGINEERING MANAGER	DATE	FILENAME	DATE
PROJECT MANAGER	DATE	MKE	5/22
PROJECT ENGINEER	DATE	DESIGNED BY	5/22
		MKE	5/22
		DRAWN BY	5/22
		BMC	5/22
		CHECKED BY	5/22



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**BID DOCUMENT**

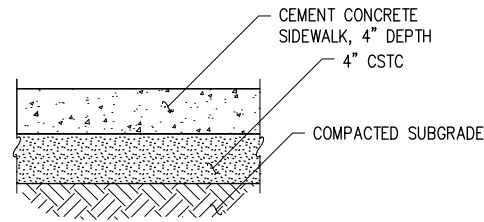


**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE**  
**INTERSECTION IMPROVEMENTS**

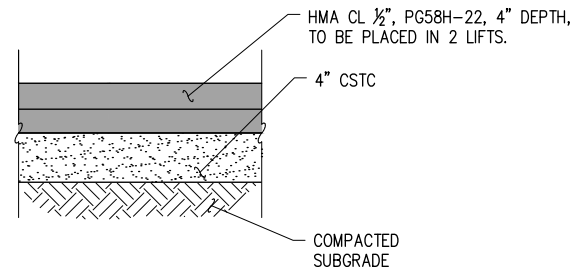
**ROADWAY AND SIDEWALK PLAN**  
 KPG PROJECT No. 21103 SHT 7 OF 30



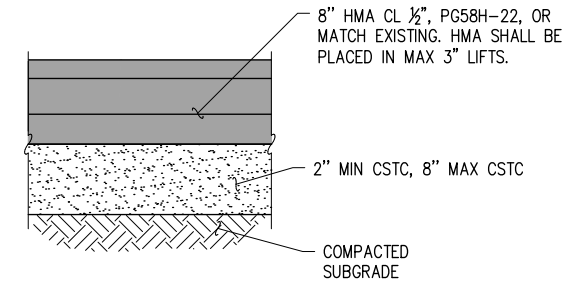
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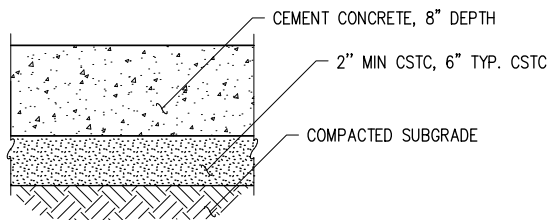
**CEMENT CONC. SIDEWALK SECTION**  
CEMENT CONC. SIDEWALK OUTSIDE OF FLUSH VERTICAL CURB AREA (RAISED INTERSECTION)  
NTS



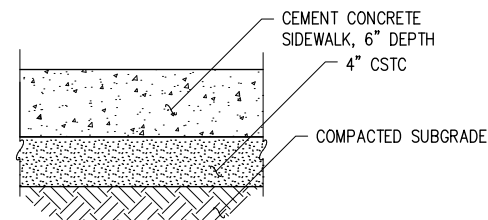
**HMA CL 1/2\"/>**



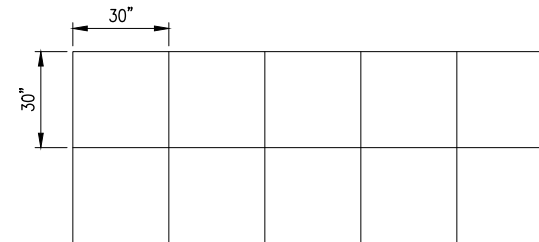
**HMA CL 1/2\"/>**



**CEMENT CONC. PAVEMENT FOR CROSSWALK SECTION**  
NTS



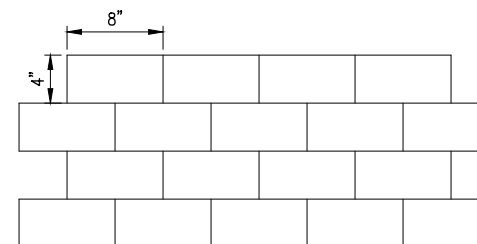
**CEMENT CONC. SIDEWALK SECTION IN RAISED INTERSECTION**  
INCLUDES CEMENT CONC. SIDEWALK ADA LANDINGS AND SCORED CEMENT CONC. SIDEWALK BETWEEN ADA LANDINGS  
NTS



NOTES:

- ENGINEER TO APPROVE FINAL DECORATIVE SCORED CEMENT CONCRETE PAVEMENT LAYOUT PRIOR TO INSTALLATION.
- SCORING PATTERN SHALL MATCH ADJACENT, EXISTING SIDEWALK SPACING AND ORIENTATION.
- DECORATIVE FINISH SHALL BE CONTINUOUS.

**SCORED CEMENT CONCRETE SIDEWALK AND CROSSWALK FINISH DETAIL**  
NTS



NOTES:

- ENGINEER TO APPROVE FINAL DECORATIVE STAMPED CEMENT CONCRETE PAVEMENT LAYOUT PRIOR TO INSTALLATION.
- DECORATIVE FINISH SHALL BE CONTINUOUS.
- BRICK RED COLOR PER SPECIAL PROVISIONS SECTION 8-14.

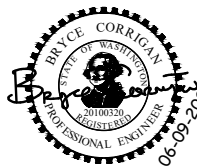
**DECORATIVE STAMPED CONCRETE FINISH DETAIL**  
NTS

NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

21103RD-DET01.dwg	FILENAME
MKE	DESIGNED BY
5/22	DATE
MKE	DRAWN BY
5/22	DATE
BMC	CHECKED BY
5/22	DATE



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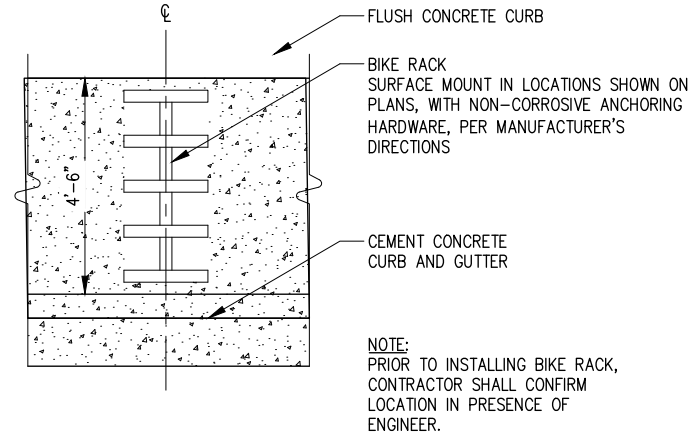
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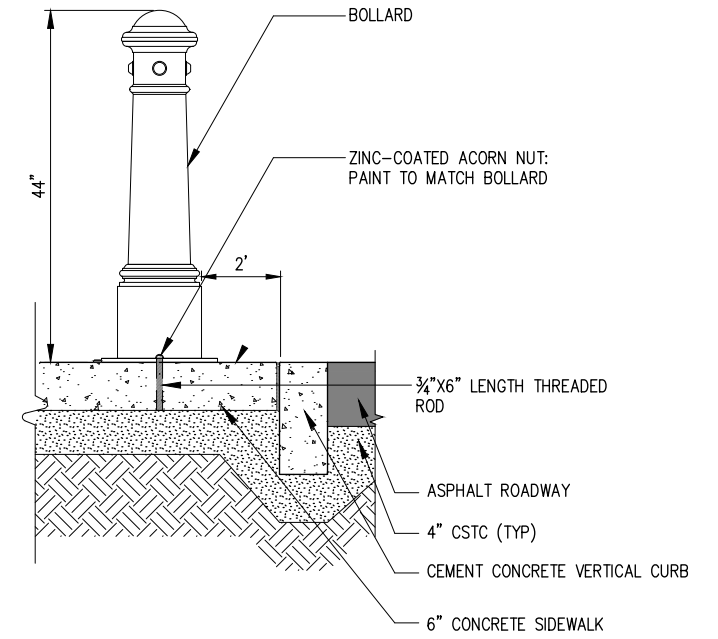
CITY OF MERCER ISLAND  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

**DETAILS**

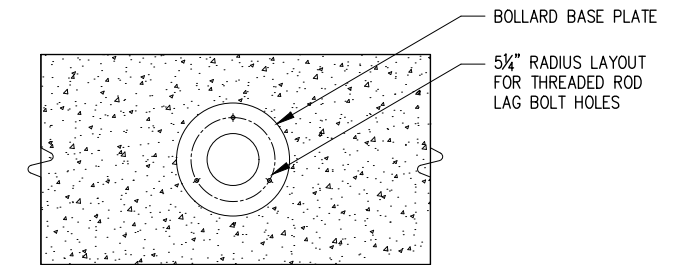
NOTE:  
WIDTH OF DETECTABLE WARNING STRIP  
SHALL BE 1'.



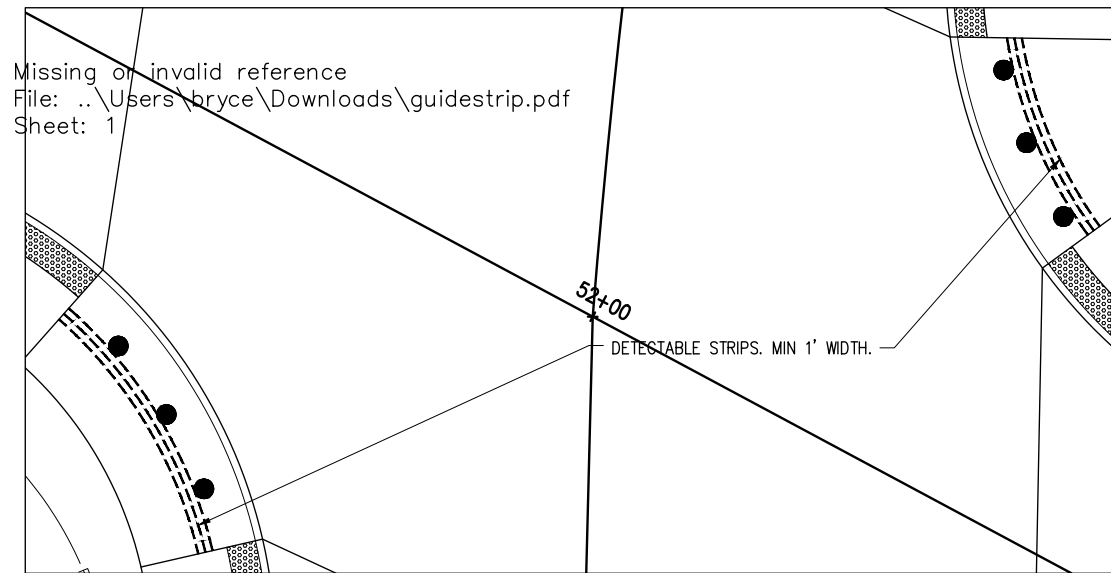
**BIKE RACK DETAIL**  
NTS



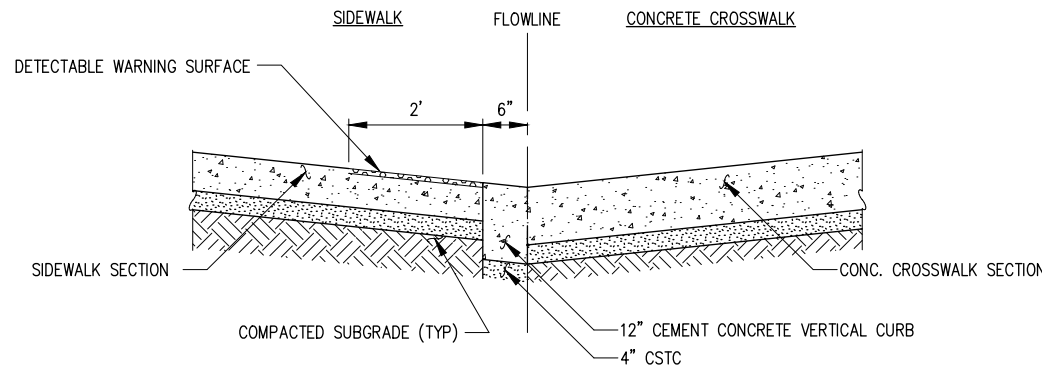
- NOTE:
1. SET BOLLARD ON A MORTAR BASE WITH 3/4" CHAMFER. USE A HEIGHT OF 1.5" FROM TOP OF PAVER TO TOP OF MORTAR BASE (AT CENTER).
  2. PRIOR TO INSTALLING BOLLARDS, CONTRACTOR SHALL CONFIRM LOCATION IN PRESENCE OF ENGINEER.



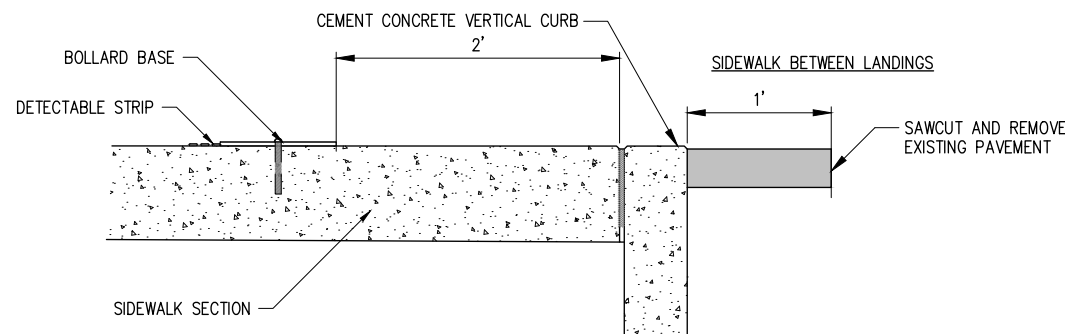
**BOLLARD IN CONCRETE DETAIL**  
NTS



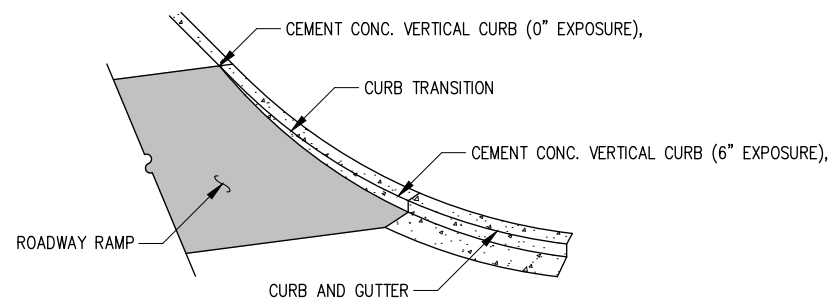
**DETECTABLE STRIP DETAIL**  
NTS



**VERTICAL CURB SECTION A**  
NTS



**VERTICAL CURB SECTION B**  
NTS

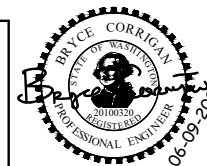


NOTE:  
DEPTH OF VERTICAL CURB TO MATCH  
ADJACENT ROADWAY SECTION.

**TRANSITIONAL VERTICAL CURB DETAIL**  
NTS

NO.	DATE	BY	APPR.	REVISIONS

Approved By		21103RD-DET01.dwg
ENGINEERING MANAGER	DATE	MKE 5/22
PROJECT MANAGER	DATE	MKE 5/22
PROJECT ENGINEER	DATE	BMC 5/22
		CHECKED BY DATE



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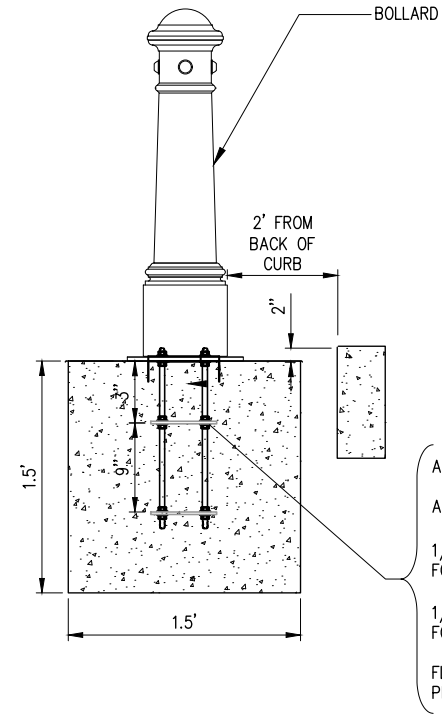
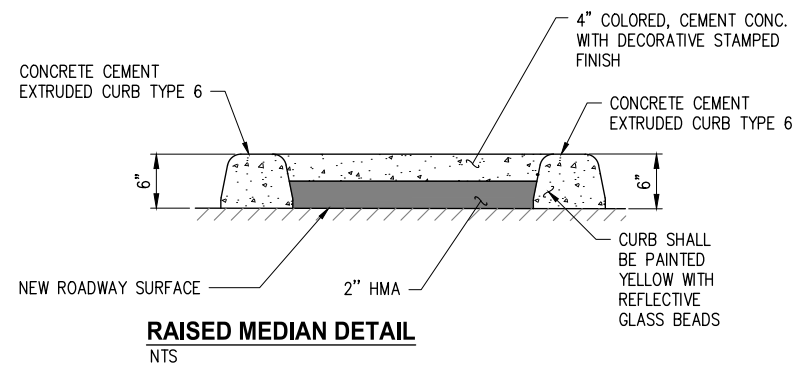


**CITY OF MERCER ISLAND**  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

DETAILS	
KPG PROJECT No. 21103	SHT 9 OF 30

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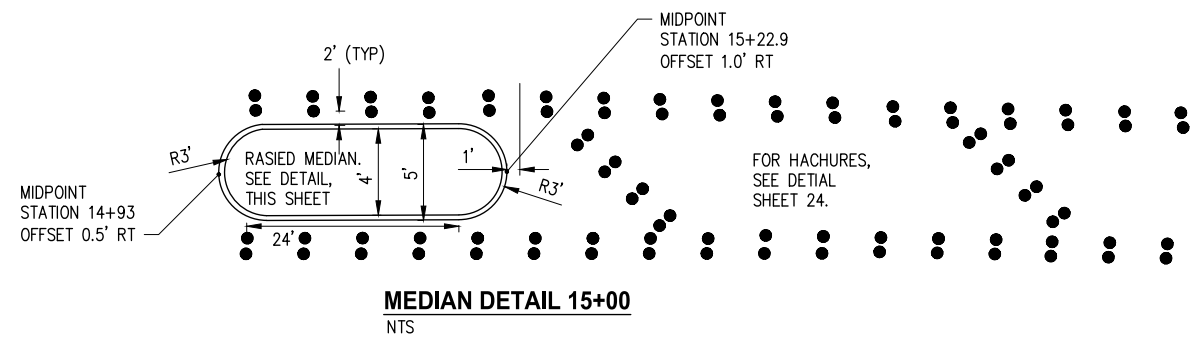
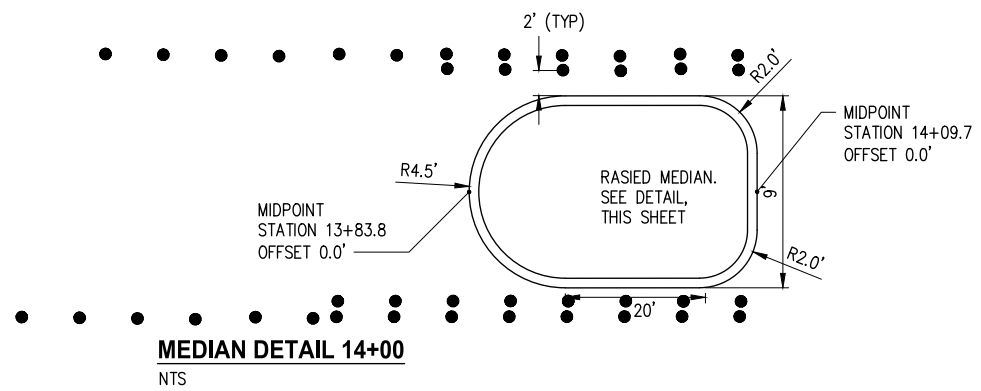
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**NOTE:**

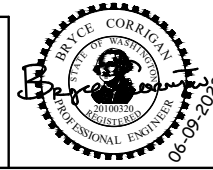
1. SET BOLLARD ON A MORTAR BASE WITH  $\frac{3}{4}$ " CHAMFER. USE A HEIGHT OF 1.5" FROM TOP OF PAVER TO TOP OF MORTAR BASE (AT CENTER).
2. PRIOR TO INSTALLING BOLLARDS, CONTRACTOR SHALL CONFIRM LOCATION IN PRESENCE OF ENGINEER.

ANCHOR BOLT TEMPLATE ASSEMBLY  
ANCHOR BOLT TEMPLATE ~ TWO REQUIRED  
1/2" (IN)  $1\frac{5}{16}$  18" (IN) FULL THREAD ANCHOR BOLT ~ FOUR REQUIRED PER ASSEMBLY  
1/2" (IN) DIAMETER STEEL HEAVY HEX NUTS ~ FOUR REQUIRED PER ANCHOR BOLT  
FLAT WASHERS ~ FOUR REQUIRED PER ANCHOR BOLT



NO.	DATE	BY	APPR.	REVISIONS

Approved By		21103RD-DET01.dwg
ENGINEERING MANAGER	DATE	BMC 5/22
PROJECT MANAGER	DATE	BMC 5/22
PROJECT ENGINEER	DATE	BMC 5/22
		CHECKED BY DATE



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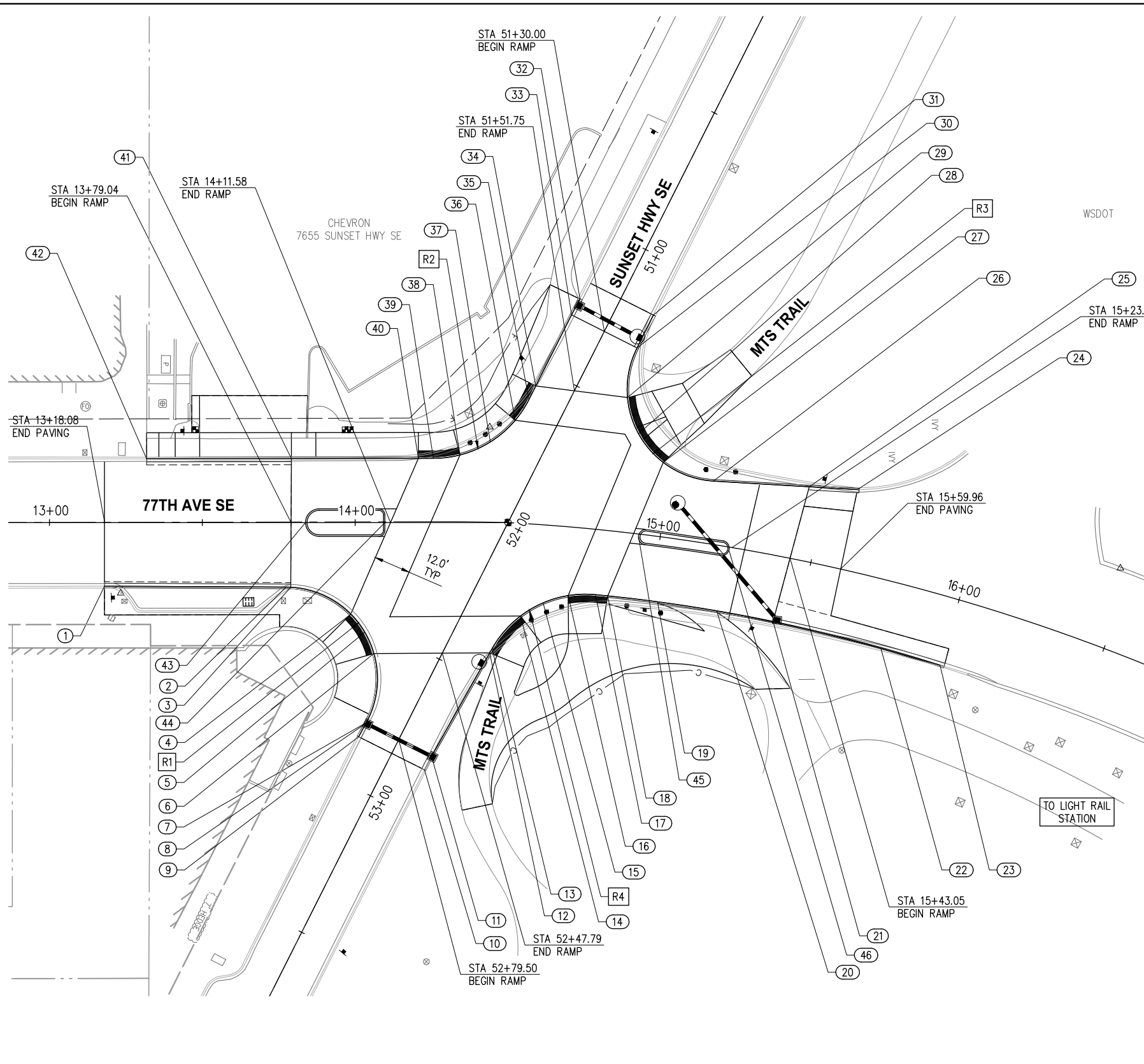


**CITY OF MERCER ISLAND**  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

DETAILS	
KPG PROJECT No. 21103	SHT 10 OF 30



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CURB LAYOUT POINTS				
NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1	13+18.00	20.80' RT	90.63	START CURB & GUTTER
2	13+77.43	21.10' RT	92.35	PC, R=30.0'
3	13+78.93	21.14' RT	92.36	BOTTOM RAMP
4	13+98.57	29.96' RT	93.60	TOP RAMP
5	14+03.11	35.84' RT	93.63	MID, R=30.0'
6	52+57.98	19.93' RT	93.65	TOP RAMP
7	52+79.28	11.97' RT	92.75	PT
8	52+79.52	11.98' RT	92.75	BOTTOM RAMP
9	52+84.52	12.14' RT	92.88	END CURB & GUTTER
10	52+84.49	11.95' LT	92.86	START CURB & GUTTER
11	52+79.49	12.00' LT	92.81	BOTTOM RAMP
12	14+44.01	42.60' RT	93.24	TOP RAMP
13	14+44.79	41.21' RT	93.26	PC, R=35.0'
14	14+56.02	30.25' RT	93.40	CROSSWALK
15	14+63.40	25.45' RT	93.63	MID, R=35.0'
16	14+71.69	22.40' RT	93.87	CROSSWALK
17	14+80.87	21.27' RT	93.94	PC, R=525.0'
18	14+85.03	21.27' RT	93.96	TOP RAMP
19	15+01.97	21.18' RT	94.05	BIKE RAMP
20	15+22.23	21.28' RT	94.25	TOP INT. RAMP, BIKE RAMP
21	15+41.61	21.33' RT	93.78	BOTTOM RAMP
22	15+79.21	22.11' RT	93.99	PT
23	16+00.00	22.23' RT	94.16	END CURB & GUTTER

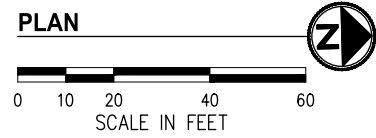
CURB LAYOUT POINTS				
NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
24	15+59.61	26.56' LT	95.73	START CURB & GUTTER
25	15+44.57	24.15' LT	95.55	BOTTOM RAMP
26	51+57.66	53.88' LT	94.76	PC, R=30.0'
27	14+97.87	24.22' LT	94.91	TOP RAMP
28	14+89.10	32.55' LT	95.00	MID, R=30.0'
29	14+84.48	43.93' LT	95.10	TOP RAMP
30	51+30.00	12.01' LT	94.76	BOTTOM RAMP, PT
31	14+89.48	71.67' LT	94.52	END CURB & GUTTER
32	14+67.51	74.58' LT	94.77	START CURB & GUTTER
33	14+65.43	69.14' LT	94.76	BOTTOM RAMP
34	14+56.21	45.15' LT	95.60	TOP RAMP
35	51+60.97	12.00' RT	95.65	PC, R=35.0'
36	14+50.51	33.52' LT	95.75	CROSSWALK
37	14+44.20	26.36' LT	95.28	MID, R=30.0'
38	14+34.28	22.10' LT	94.85	CROSSWALK
39	51+92.23	31.25' RT	94.71	PT
40	14+20.68	21.00' LT	94.64	TOP RAMP
41	13+79.15	20.93' LT	92.92	BOTTOM RAMP
42	13+31.81	20.85' LT	91.26	END CURB & GUTTER
43	13+83.76	0.00' RT	92.91	NOSE OF ISLAND
44	14+09.71	0.00'	94.13	NOSE OF ISLAND
45	14+92.93	0.75' RT	94.42	NOSE OF ISLAND
46	15+22.89	0.98' RT	94.98	NOSE OF ISLAND

SE RADIUS								
NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
R1	0+59.43	217507.68	129457.99	61.90'	118°13'05"	30.00'	1+09.58	50.15'

SW RADIUS								
NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
R2	0+93.77	217556.89	1294517.13	38.65'	63°15'54"	35.00'	1+15.33	21.56'

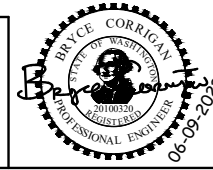
NW RADIUS								
NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
R3	0+12.11	217624.36	1294482.82	59.34'	113°19'51"	30.00'	0+57.73	45.61'

NE RADIUS								
NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
R4	0+40.39	217574.51	1294579.81	40.36'	66°03'55"	35.00'	0+63.15	22.76'



NO.	DATE	BY	APPR.	REVISIONS

Approved By		FILENAME	DATE
ENGINEERING MANAGER	DATE	21103INT.dwg	5/22
PROJECT MANAGER	DATE	MKE	5/22
PROJECT ENGINEER	DATE	DESIGNED BY	5/22
		MKE	5/22
		DRAWN BY	5/22
		BMC	5/22
		CHECKED BY	



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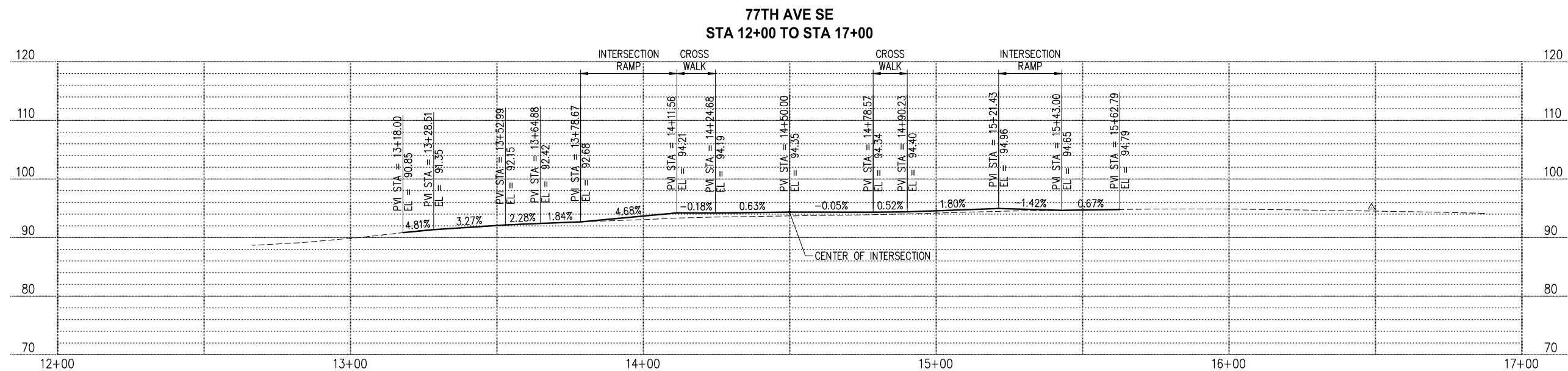


**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE**  
**INTERSECTION IMPROVEMENTS**

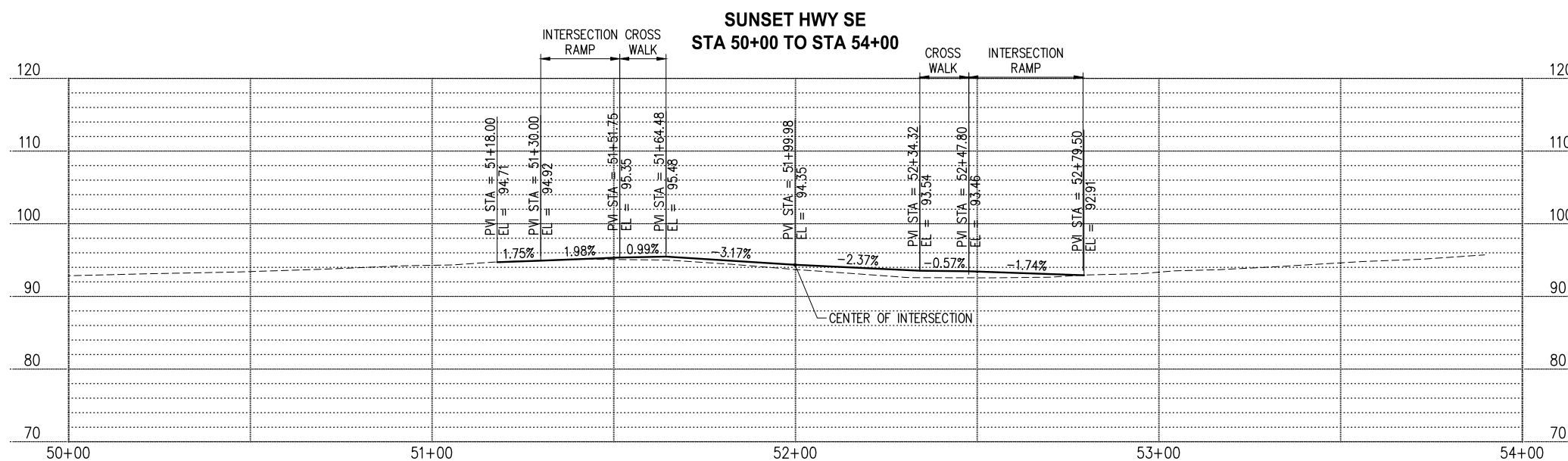
**RAISED INTERSECTION LAYOUT PLAN**  
KPG PROJECT No. 21103 SHT 11 OF 30



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**PROFILE**  
HOR: 1"=20' VER: 1"=10'



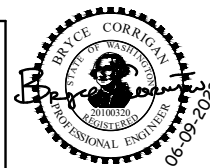
**PROFILE**  
HOR: 1"=20' VER: 1"=10'

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**Approved By**

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
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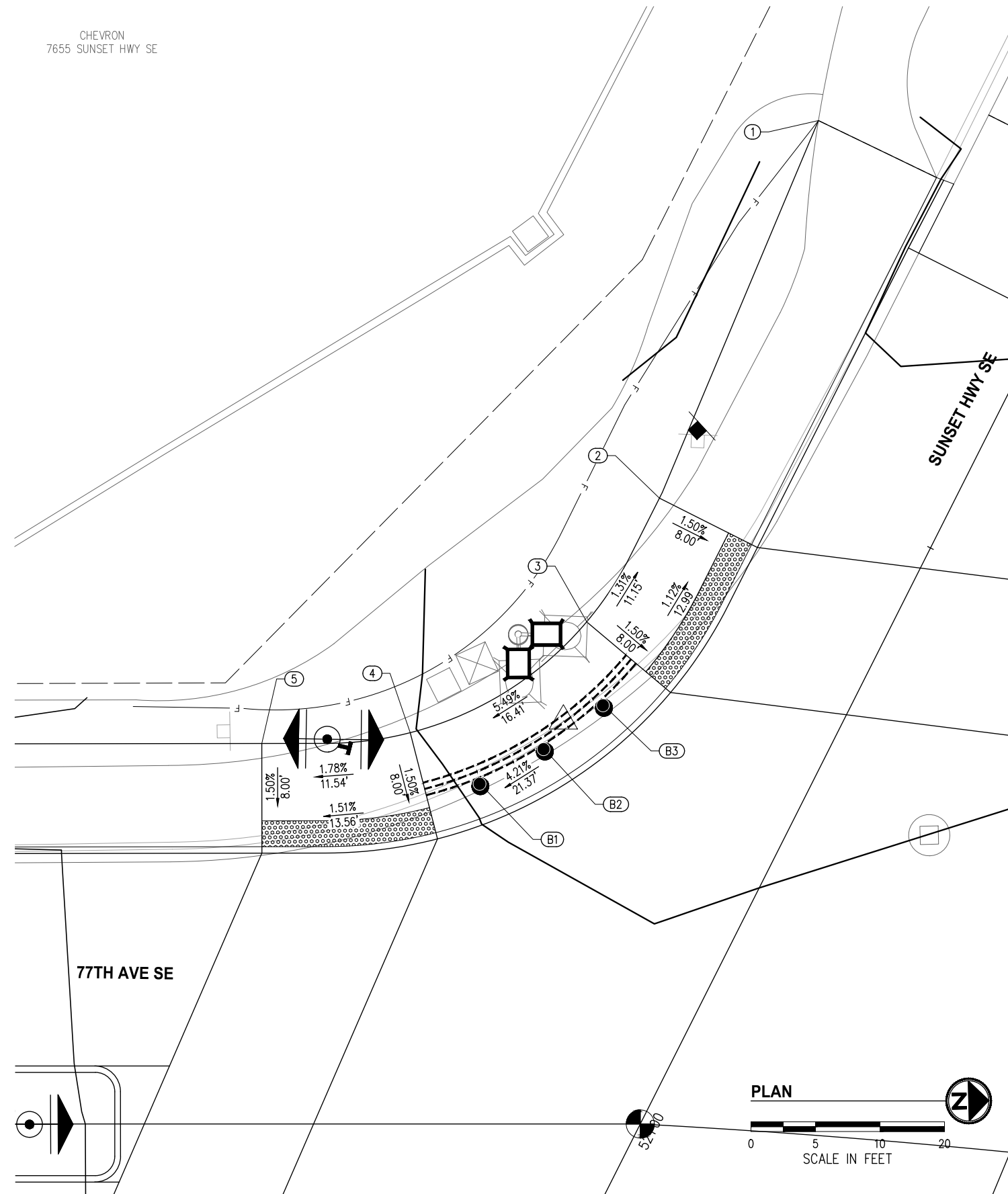
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**CITY OF MERCER ISLAND**  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

CHEVRON  
7655 SUNSET HWY SE



**GENERAL NOTES**

1. CURB RAMPS SHALL BE CONSTRUCTED TO MEET RUNNING AND CROSS SLOPES SHOWN.
2. CURB RAMPS AND LANDINGS SHALL BE PLANAR WITH NO GRADE BREAKS.
3. USE RADIUS DETECTABLE WARNING SURFACE (DWS) WHERE APPLICABLE. DETECTABLE WARNING SURFACE SHALL BE INSTALLED PER WSDOT STANDARD PLAN F-45.10-02.
4. CEMENT CONC. LANDINGS SHALL BE BRUSH FINISHED.

**LEGEND**

	PROPERTY LINE
	EXISTING RIGHT OF WAY
	CEMENT CONCRETE LANDING
	HMA CL 1/2" PG 58H-22
	SCORED CEMENT CONCRETE
	STAMPED CEMENT CONCRETE
	DETECTABLE WARNING SURFACE

**SIDEWALK LAYOUT POINTS**

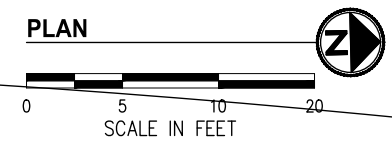
NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
1	14+58.54	78.48' LT	95.48	MATCH EXISTING
2	14+50.00	48.54' LT	95.72	LANDING
3	14+45.86	38.91' LT	95.87	LANDING
4	14+32.17	30.31' LT	94.97	LANDING
5	14+20.67	29.49' LT	94.76	LANDING

**BOLLARD TABLE**

NUMBER	STATION	OFFSET	DESCRIPTION
B1	51+82.06	22.99' RT	BOLLARD
B2	51+77.42	19.77' RT	BOLLARD
B3	51+72.32	17.19' RT	BOLLARD

77TH AVE SE

SUNSET HWY SE



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<b>Approved By</b>		21103CURB-DET01.dwg
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PROJECT ENGINEER	DATE	BMC 5/22
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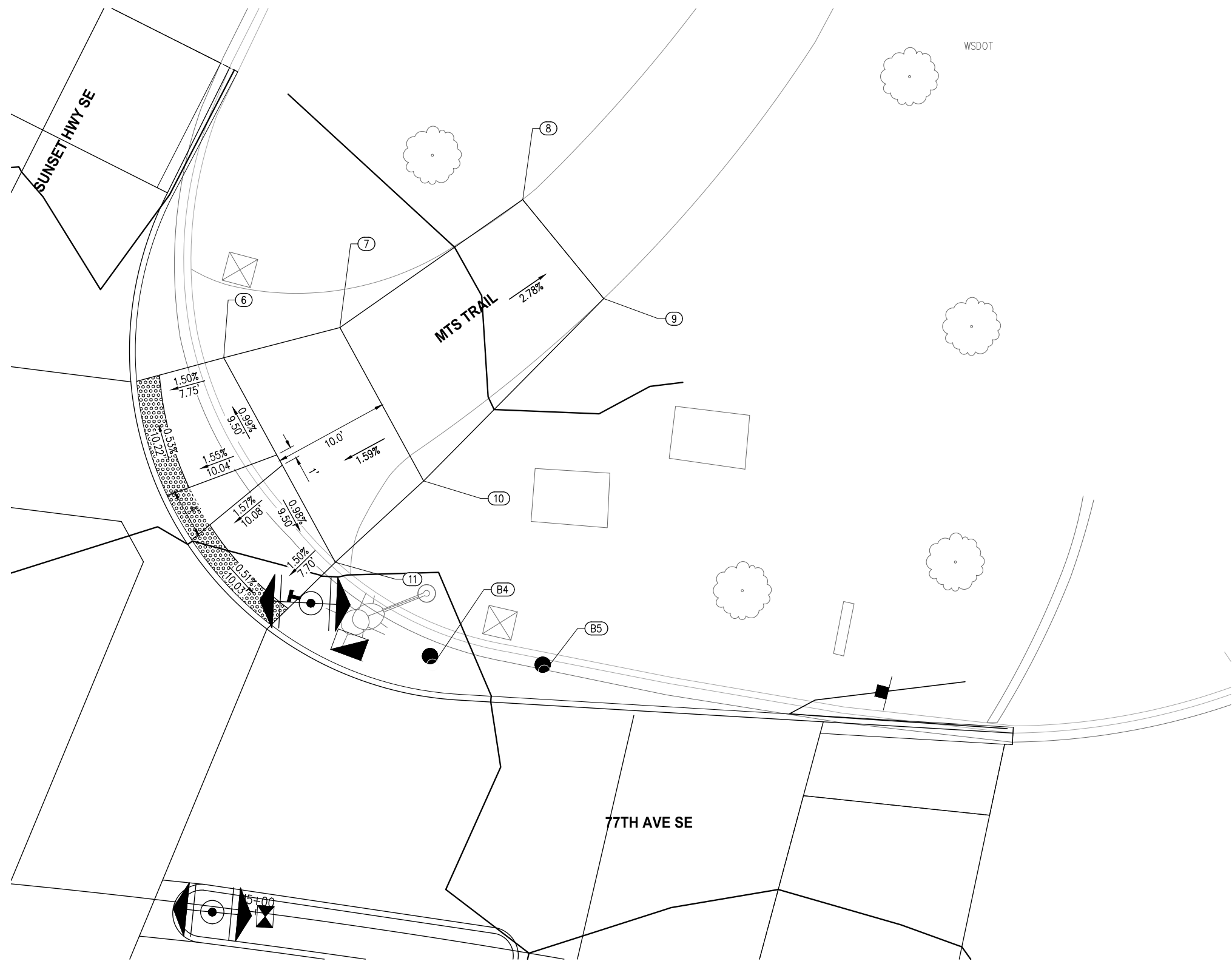


**CITY OF MERCER ISLAND**  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

<b>CURB RAMP DETAILS (SW)</b>	
KPG PROJECT No. 21103	SHT <u>14</u> OF <u>30</u>



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**GENERAL NOTES**

- CURB RAMPS SHALL BE CONSTRUCTED TO MEET RUNNING AND CROSS SLOPES SHOWN.
- CURB RAMPS AND LANDINGS SHALL BE PLANAR WITH NO GRADE BREAKS.
- USE RADIUS DETECTABLE WARNING SURFACE (DWS) WHERE APPLICABLE. DETECTABLE WARNING SURFACE SHALL BE INSTALLED PER WSDOT STANDARD PLAN F-45.10-02.
- CEMENT CONC. LANDINGS SHALL BE BRUSH FINISHED.

**LEGEND**

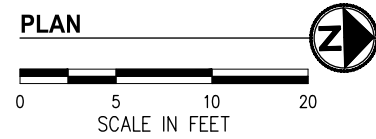
- PROPERTY LINE
- - - EXISTING RIGHT OF WAY
- [Pattern] CEMENT CONCRETE LANDING
- [Pattern] HMA CL 1/2" PG 58H-22
- [Pattern] SCORED CEMENT CONCRETE
- [Pattern] STAMPED CEMENT CONCRETE
- [Pattern] DETECTABLE WARNING SURFACE

**SIDEWALK LAYOUT POINTS**

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
6	14+91.67	46.87' LT	95.22	LANDING
7	15+00.58	50.69' LT	95.37	AP
8	15+13.43	63.80' LT	94.78	MATCH EXISTING
9	15+20.94	56.48' LT	94.72	MATCH EXISTING
10	15+08.94	38.64' LT	95.18	AP
11	15+02.73	30.67' LT	95.03	LANDING

**BOLLARD TABLE**

NUMBER	STATION	OFFSET	DESCRIPTION
B4	15+11.87	23.14' LT	BOLLARD
B5	15+21.09	24.12' LT	BOLLARD



NO.	DATE	BY	APPR.	REVISIONS

Approved By		FILENAME
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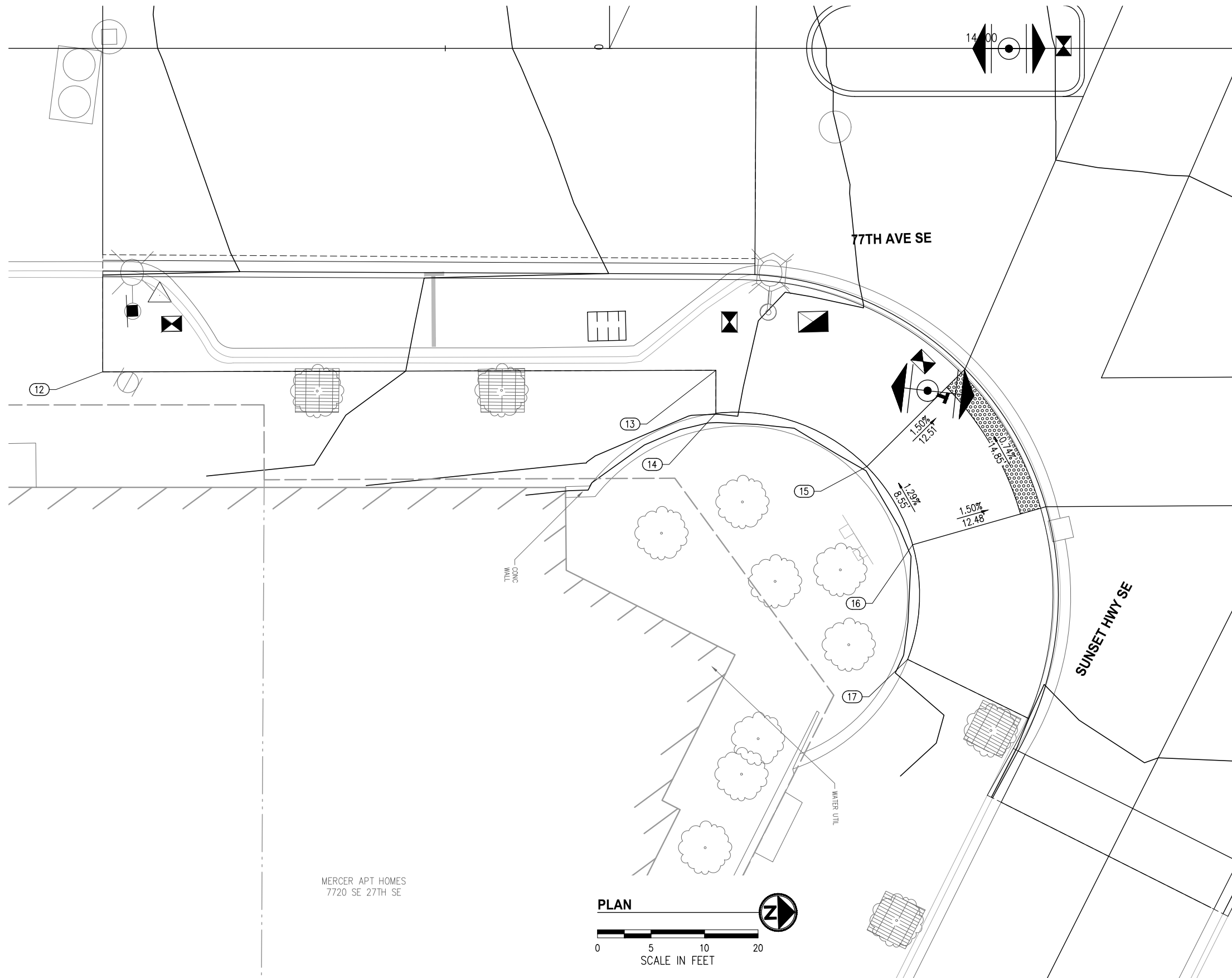
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**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE**  
**INTERSECTION IMPROVEMENTS**

**CURB RAMP DETAILS (NW)**

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**GENERAL NOTES**

1. CURB RAMPS SHALL BE CONSTRUCTED TO MEET RUNNING AND CROSS SLOPES SHOWN.
2. CURB RAMPS AND LANDINGS SHALL BE PLANAR WITH NO GRADE BREAKS.
3. USE RADIUS DETECTABLE WARNING SURFACE (DWS) WHERE APPLICABLE. DETECTABLE WARNING SURFACE SHALL BE INSTALLED PER WSDOT STANDARD PLAN F-45.10-02.
4. CEMENT CONC. LANDINGS SHALL BE BRUSH FINISHED.

**LEGEND**

	PROPERTY LINE
	EXISTING RIGHT OF WAY
	CEMENT CONCRETE LANDING
	HMA CL 1/2" PG 58H-22
	SCORED CEMENT CONCRETE
	STAMPED CEMENT CONCRETE
	DETECTABLE WARNING SURFACE

**SIDEWALK LAYOUT POINTS**

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
12	13+18.00	30.22' RT	91.18	AP, MATCH EXISTING
13	13+75.29	30.08' RT	92.84	AP, MATCH EXISTING
14	13+75.29	34.09' RT	92.88	MATCH EXISTING
15	13+89.39	39.07' RT	93.11	MATCH EXISTING
16	13+93.67	46.37' RT	93.22	MATCH EXISTING
17	13+93.20	57.08' RT	93.40	MATCH EXISTING

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PLAN

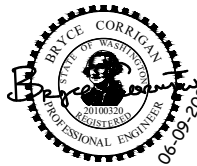


NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE

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MKE	5/22
DESIGNED BY	DATE
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DRAWN BY	DATE
BMC	5/22
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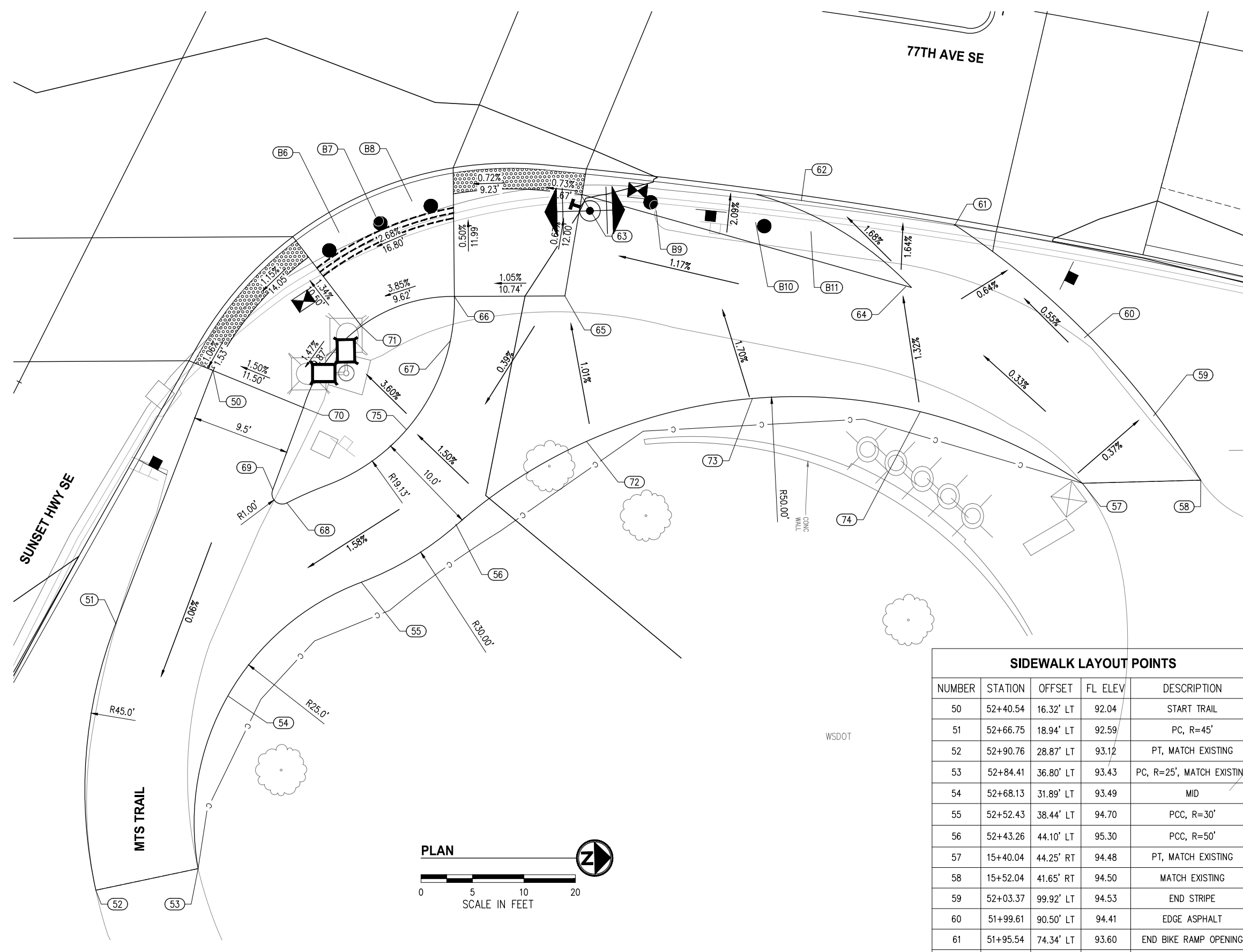


CITY OF MERCER ISLAND  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

CURB RAMP DETAILS (SE)



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**GENERAL NOTES**

- CURB RAMPS SHALL BE CONSTRUCTED TO MEET RUNNING AND CROSS SLOPES SHOWN.
- CURB RAMPS AND LANDINGS SHALL BE PLANAR WITH NO GRADE BREAKS.
- USE RADIUS DETECTABLE WARNING SURFACE (DWS) WHERE APPLICABLE. DETECTABLE WARNING SURFACE SHALL BE INSTALLED PER WSDOT STANDARD PLAN F-45.10-02.
- CEMENT CONC. LANDINGS SHALL BE BRUSH FINISHED.

**LEGEND**

- PROPERTY LINE
- EXISTING RIGHT OF WAY
- CEMENT CONCRETE LANDING
- HMA CL 1/2" PG 58H-22
- SCORED CEMENT CONCRETE
- STAMPED CEMENT CONCRETE
- DETECTABLE WARNING SURFACE

**BOLLARD TABLE**

NUMBER	STATION	OFFSET	DESCRIPTION
B6	14+60.98	29.95' RT	BOLLARD
B7	14+64.59	28.15' RT	BOLLARD
B8	14+68.14	26.38' RT	BOLLARD
B9	14+92.28	24.02' RT	BOLLARD
B10	15+02.38	23.95' RT	BOLLARD
B11	15+08.10	24.06' RT	BOLLARD

**SIDEWALK LAYOUT POINTS**

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
50	52+40.54	16.32' LT	92.04	START TRAIL
51	52+66.75	18.94' LT	92.59	PC, R=45'
52	52+90.76	28.87' LT	93.12	PT, MATCH EXISTING
53	52+84.41	36.80' LT	93.43	PC, R=25', MATCH EXISTING
54	52+68.13	31.89' LT	93.49	MID
55	52+52.43	38.44' LT	94.70	PCC, R=30'
56	52+43.26	44.10' LT	95.30	PCC, R=50'
57	15+40.04	44.25' RT	94.48	PT, MATCH EXISTING
58	15+52.04	41.65' RT	94.50	MATCH EXISTING
59	52+03.37	99.92' LT	94.53	END STRIPE
60	51+99.61	90.50' LT	94.41	EDGE ASPHALT
61	51+95.54	74.34' LT	93.60	END BIKE RAMP OPENING
62	52+00.09	59.96' LT	93.45	BEING BIKE RAMP OPENING

**SIDEWALK LAYOUT POINTS**

NUMBER	STATION	OFFSET	FL ELEV	DESCRIPTION
63	52+09.16	40.50' LT	92.95	TRAIL START
64	52+02.98	72.77' LT	94.12	AP, BIKE RAMP & TRAIL
65	52+18.69	43.60' LT	93.00	EDGE CONCRETE
66	52+23.56	34.03' LT	92.55	EDGE CONCRETE
67	52+27.58	35.61' LT	92.82	PC
68	52+48.80	28.52' LT	92.82	PCC
69	52+48.29	26.71' LT	92.57	PT
70	52+39.80	25.78' LT	92.38	EDGE CONCRETE
71	52+30.22	27.30' LT	92.37	EDGE CONCRETE
72	52+30.36	51.83' LT	95.53	EDGE ASPHALT
73	52+19.38	64.35' LT	94.69	EDGE ASPHALT
74	52+13.19	79.50' LT	94.59	EDGE ASPHALT

PLAN



NO.	DATE	BY	APPR.	REVISIONS

Approved By		21103CURB-DET01.dwg
ENGINEERING MANAGER	DATE	MKE 5/22
PROJECT MANAGER	DATE	MKE 5/22
PROJECT ENGINEER	DATE	BMC 5/22
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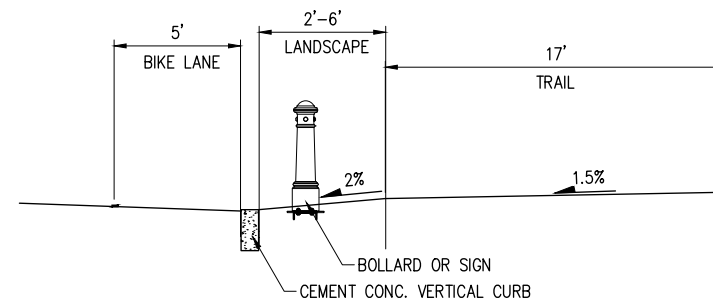
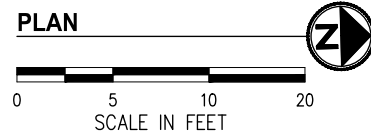
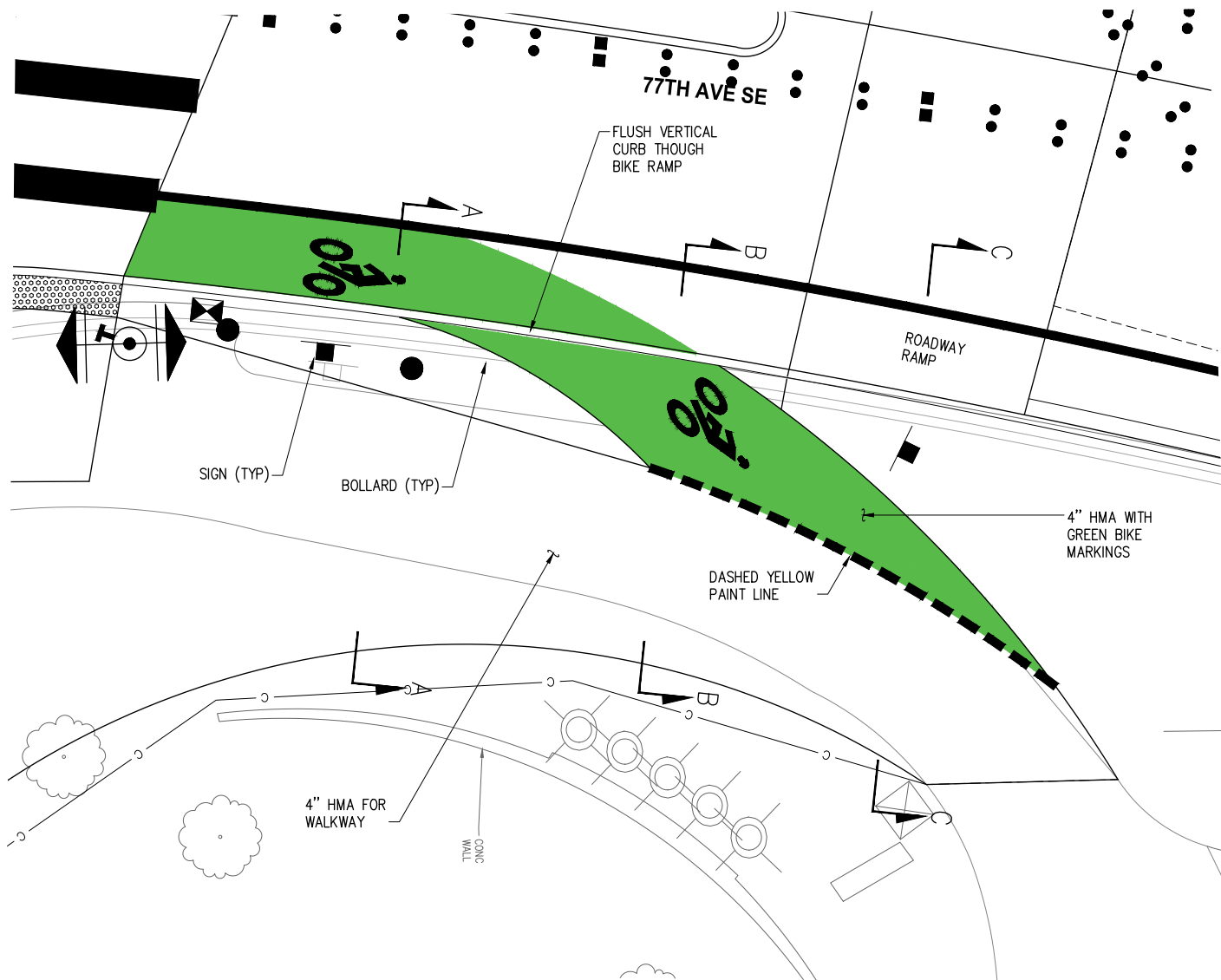
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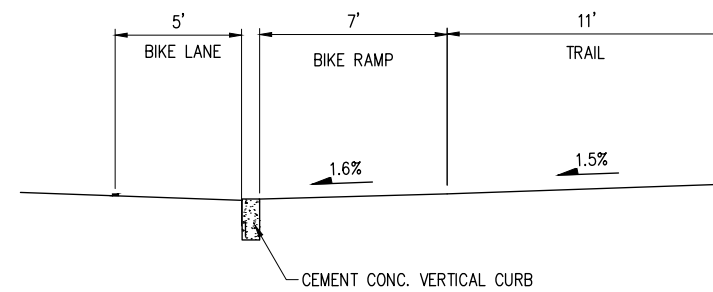
**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE**  
**INTERSECTION IMPROVEMENTS**

**CURB RAMP DETAILS (NE)**  
 KPG PROJECT No. 21103 SHT 17 OF 30

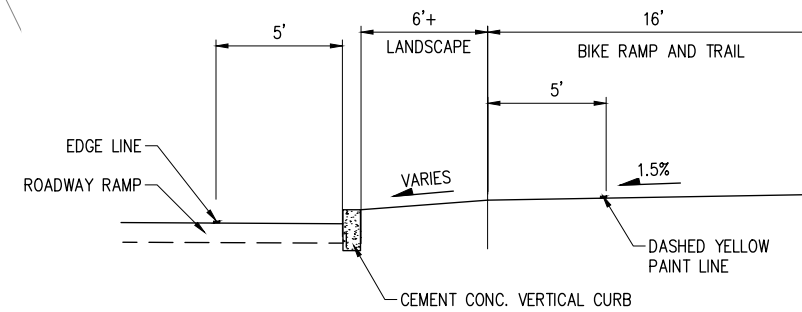
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SECTION A-A



SECTION B-B



SECTION C-C

**GENERAL NOTES**

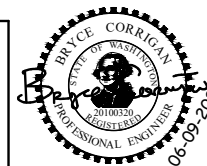
1. CURB RAMPS SHALL BE CONSTRUCTED TO MEET RUNNING AND CROSS SLOPES SHOWN.
2. CURB RAMPS AND LANDINGS SHALL BE PLANAR WITH NO GRADE BREAKS.
3. USE RADIUS DETECTABLE WARNING SURFACE (DWS) WHERE APPLICABLE. DETECTABLE WARNING SURFACE SHALL BE INSTALLED PER WSDOT STANDARD PLAN F-45.10-02.
4. CEMENT CONC. LANDINGS SHALL BE BRUSH FINISHED.

**LEGEND**

- PROPERTY LINE
- - - EXISTING RIGHT OF WAY
- CEMENT CONCRETE LANDING
- HMA CL 1/2" PG 58H-22
- SCORED CEMENT CONCRETE
- STAMPED CEMENT CONCRETE
- DETECTABLE WARNING SURFACE

NO.	DATE	BY	APPR.	REVISIONS

Approved By		21103CURB-DET01.dwg
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PROJECT MANAGER	DATE	BMC 5/22
PROJECT ENGINEER	DATE	BMC 5/22
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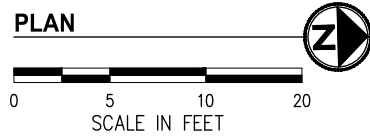
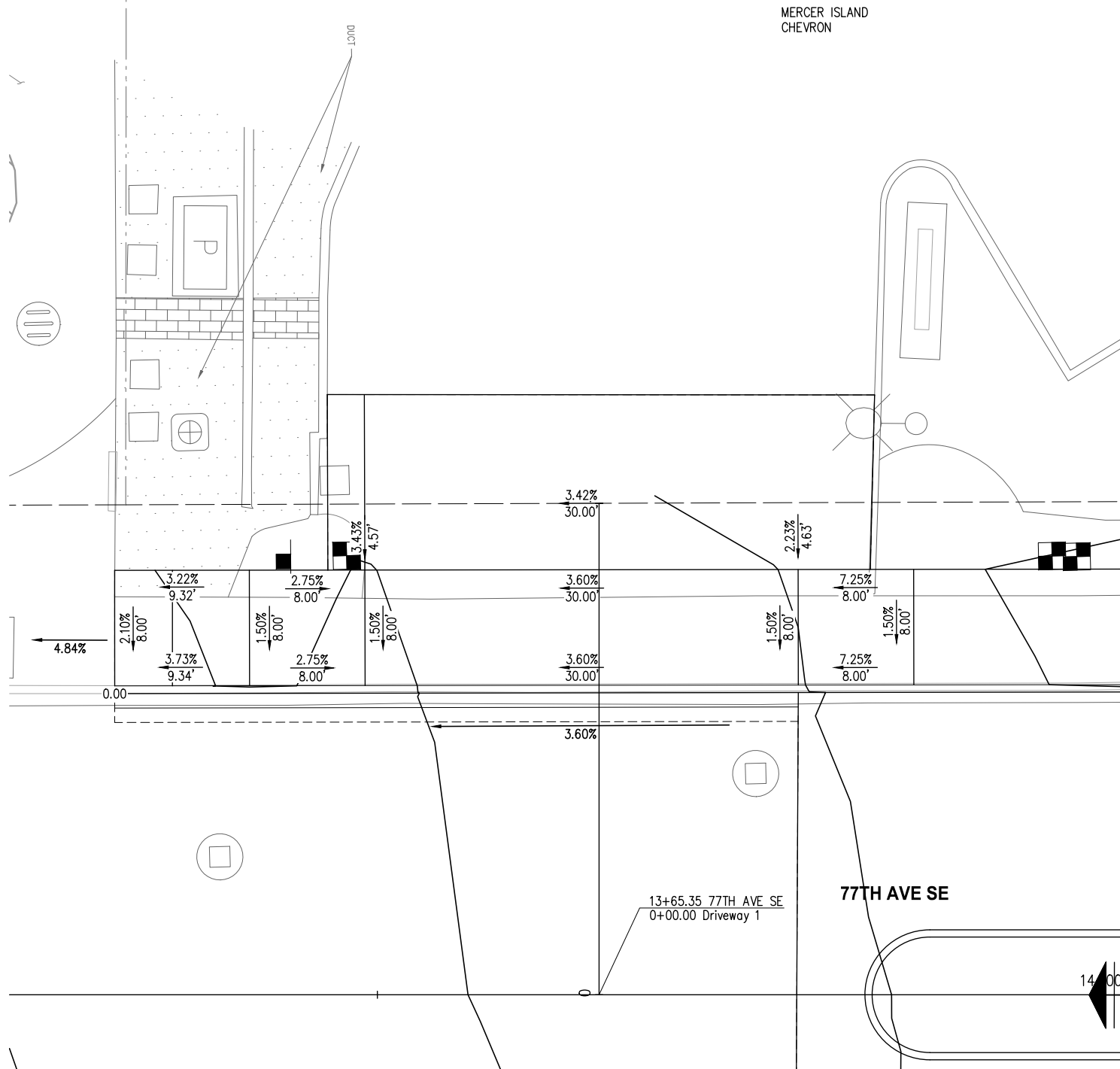
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CITY OF MERCER ISLAND  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

BIKE RAMP DETAIL

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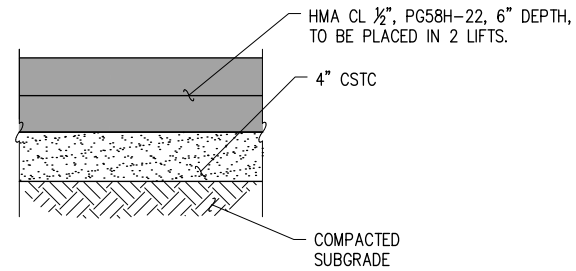


**GENERAL NOTES**

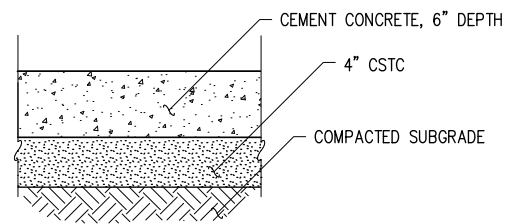
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- CEMENT CONC. LANDINGS SHALL BE BRUSH FINISHED.

**LEGEND**

- PROPERTY LINE
- EXISTING RIGHT OF WAY
- CEMENT CONCRETE LANDING
- HMA CL 1/2" PG 58H-22
- SCORED CEMENT CONCRETE
- STAMPED CEMENT CONCRETE
- DETECTABLE WARNING SURFACE

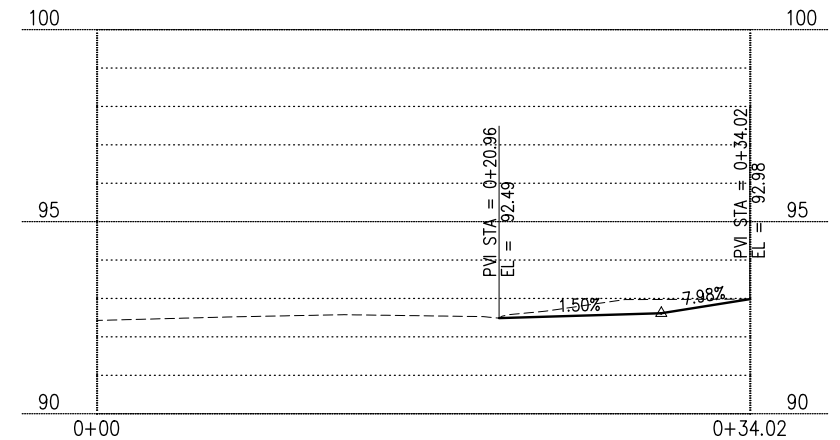


**HMA CL 1/2" PG 58H-22 FOR DRIVEWAY SECTION**  
NTS



**CEMENT CONC. DRIVEWAY ENTRANCE SECTION**  
NTS

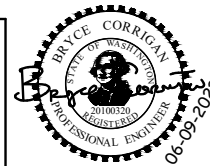
**DRIVEWAY 1**  
**STA 0+00 TO STA 0+34**



**PROFILE**  
HOR: 1"=20' VER: 1"=5'

NO.	DATE	BY	APPR.	REVISIONS

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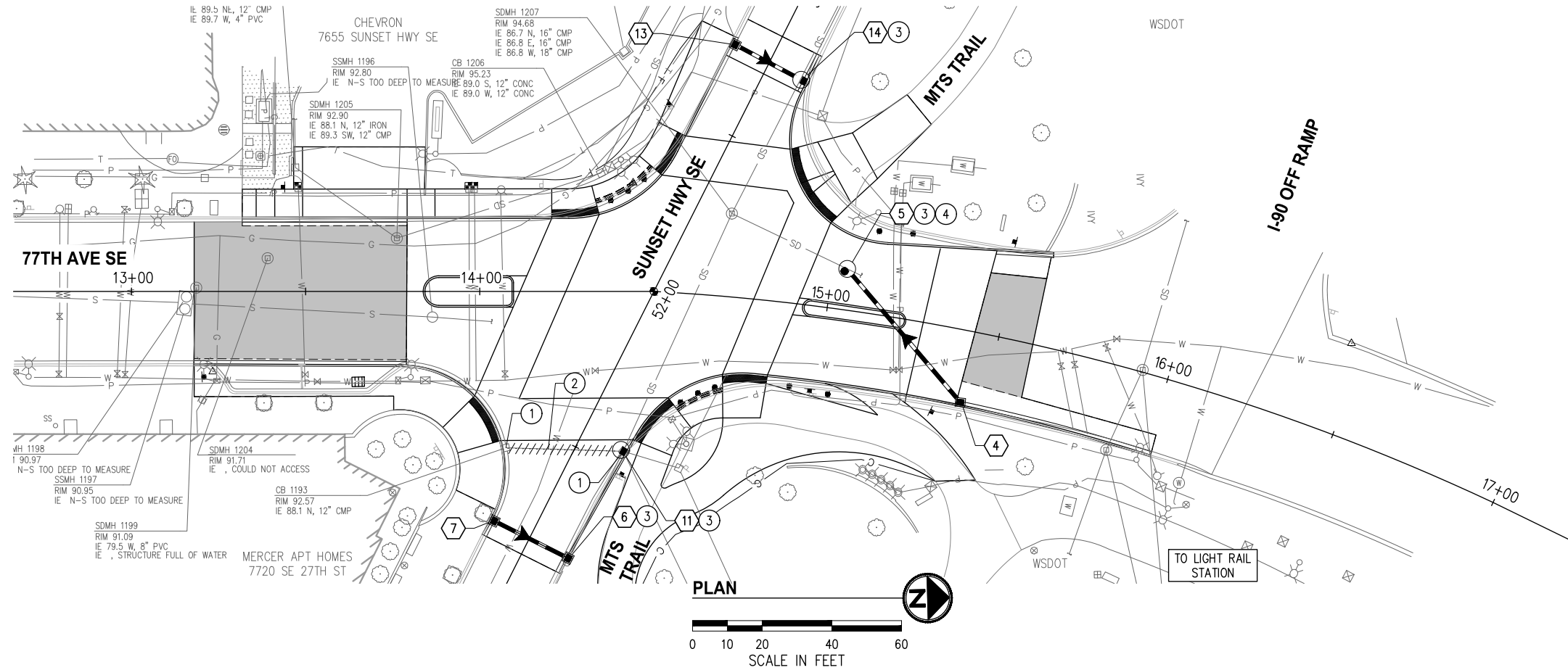
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**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE**  
**INTERSECTION IMPROVEMENTS**

DRIVEWAY DETAIL	
KPG PROJECT No. 21103	SHT 19 OF 30

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**GENERAL NOTES**

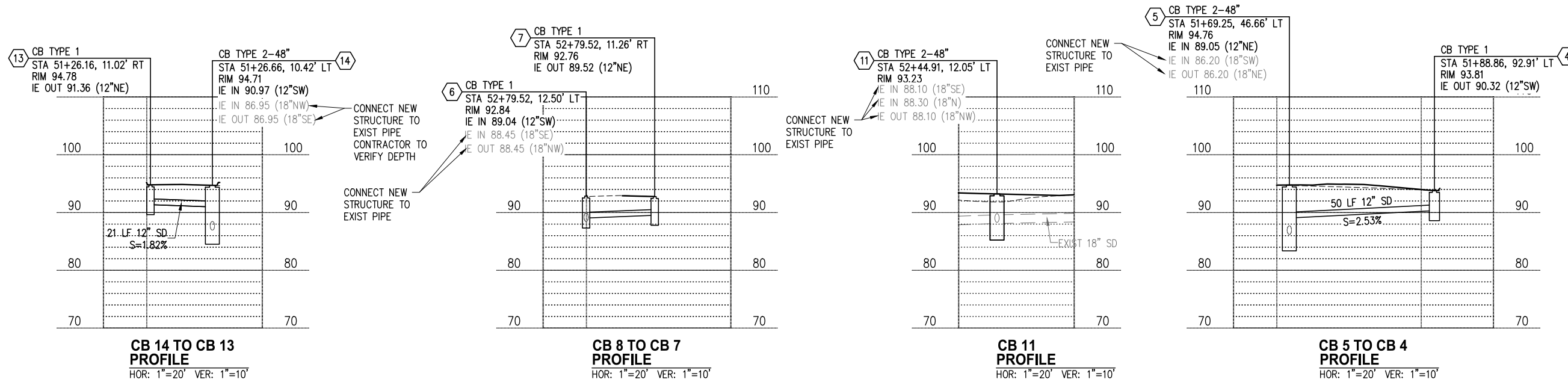
1. INSTALL CB TYPE 1 PER WSDOT STD DETAIL B-5.20.02 AND CB TYPE 2 PER WSDOT STD DETAIL B-10.20-02.
2. PIPES LABELED "SD" SHALL BE POLYPROPYLENE STORM SEWER PIPE.
3. ALL STORM DRAINAGE PIPE SHALL HAVE WATERTIGHT JOINTS.
4. LOCATION AND SIZE OF EXISTING UTILITIES ARE APPROXIMATE.
5. STATION/OFFSET CALLOUTS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
6. CATCH BASINS SHALL BE VANED GRATE OR SOLID METAL COVER PER WSDOT STD DETAIL B-30.30-03 AND B-30.20-04.

**STORM DRAINAGE NOTES**

- 1 REMOVE EXISTING STORM DRAINAGE STRUCTURE.
- 2 REMOVE EXISTING STORM DRAINAGE PIPE.
- 3 CONNECT NEW STRUCTURE TO EXISTING STORM DRAINAGE PIPE.
- 4 INSTALL SOLID LID COVER

**LEGEND**

- STORM DRAINAGE STRUCTURE ID NUMBER
- STORM DRAIN PIPE
- CATCH BASIN TYPE 2
- CATCH BASIN TYPE 1
- DIRECTIONAL FLOW ARROW
- REMOVE EXISTING PIPE



NO.	DATE	BY	APPR.	REVISIONS

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PROJECT ENGINEER	DATE	DESIGNED BY
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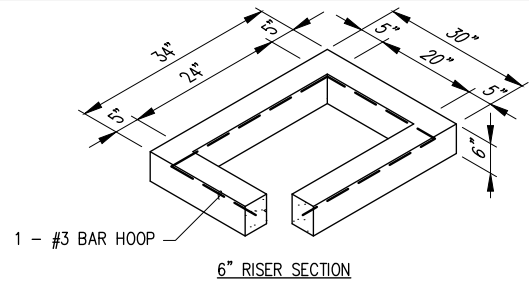


**CITY OF MERCER ISLAND**  
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 INTERSECTION IMPROVEMENTS

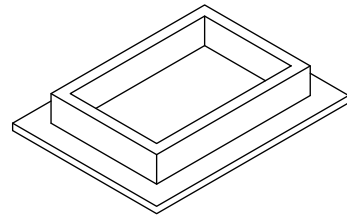
STORMWATER PLAN & PROFILE	
77TH AVENUE SE	
KPG PROJECT No. 21103	SHT <u>20</u> OF <u>30</u>



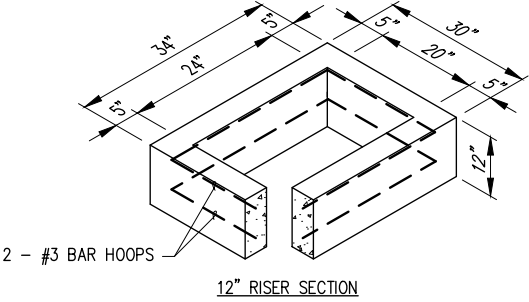
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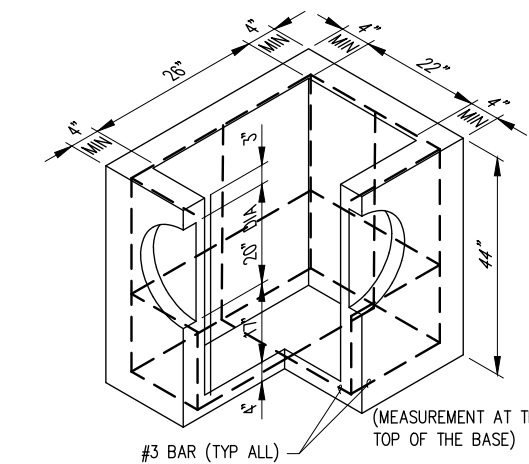
6" RISER SECTION



FRAME & GRATE



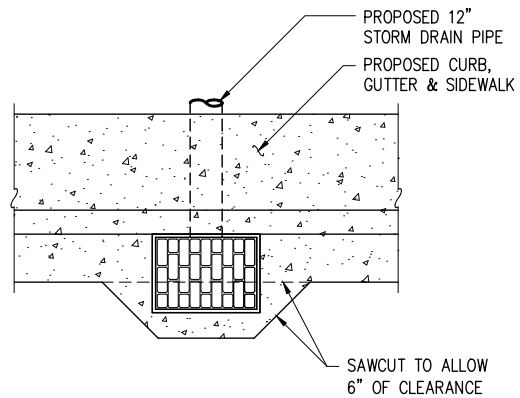
12" RISER SECTION



PRECAST BASE SECTION

CATCH BASIN TYPE 1

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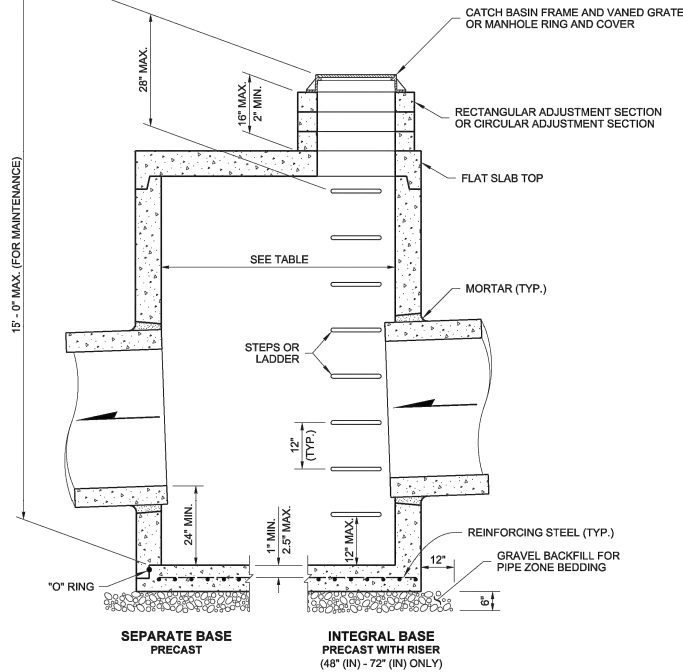
CATCH BASIN INSTALLATION

NTS

NOTES:

- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M 199) AND C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
- AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
- ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
- KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS CATCH BASIN WALL THICKNESS.
- ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES WITH MAXIMUM DIA. OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPED.
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 4'-0".
- THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FT.
- CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
- FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
- EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN.

DRAWN BY: FERN LIDDELL



NOTES

- No steps are required when height is 4' or less.
- The bottom of the precast catch basin may be sloped to facilitate cleaning.
- The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
- Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.

CATCH BASIN DIMENSIONS

CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

PIPE ALLOWANCES

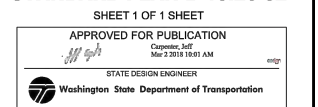
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP (1) PP (4)	SOLID WALL PVC (2)	PROFILE WALL PVC (3)
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"
120"	66"	84"	60"	48"	48"
144"	78"	96"	60"	48"	48"

- (1) Corrugated Polyethylene Storm Sewer Pipe (See Standard Specification Section 9-05.20)
- (2) (See Standard Specification Section 9-05.12(1))
- (3) (See Standard Specification Section 9-05.12(2))
- (4) Polypropylene Pipe (See Standard Specification Section 9-05.24)



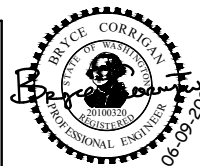
Heilman, Julie  
Feb 20 2018 12:49 PM  
022626

CATCH BASIN TYPE 2  
STANDARD PLAN B-10.20-02



NO.	DATE	BY	APPR.	REVISIONS

Approved By		21103STRM-DET01.dwg
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PROJECT MANAGER	DATE	MKE 5/22
PROJECT ENGINEER	DATE	BMC 5/22
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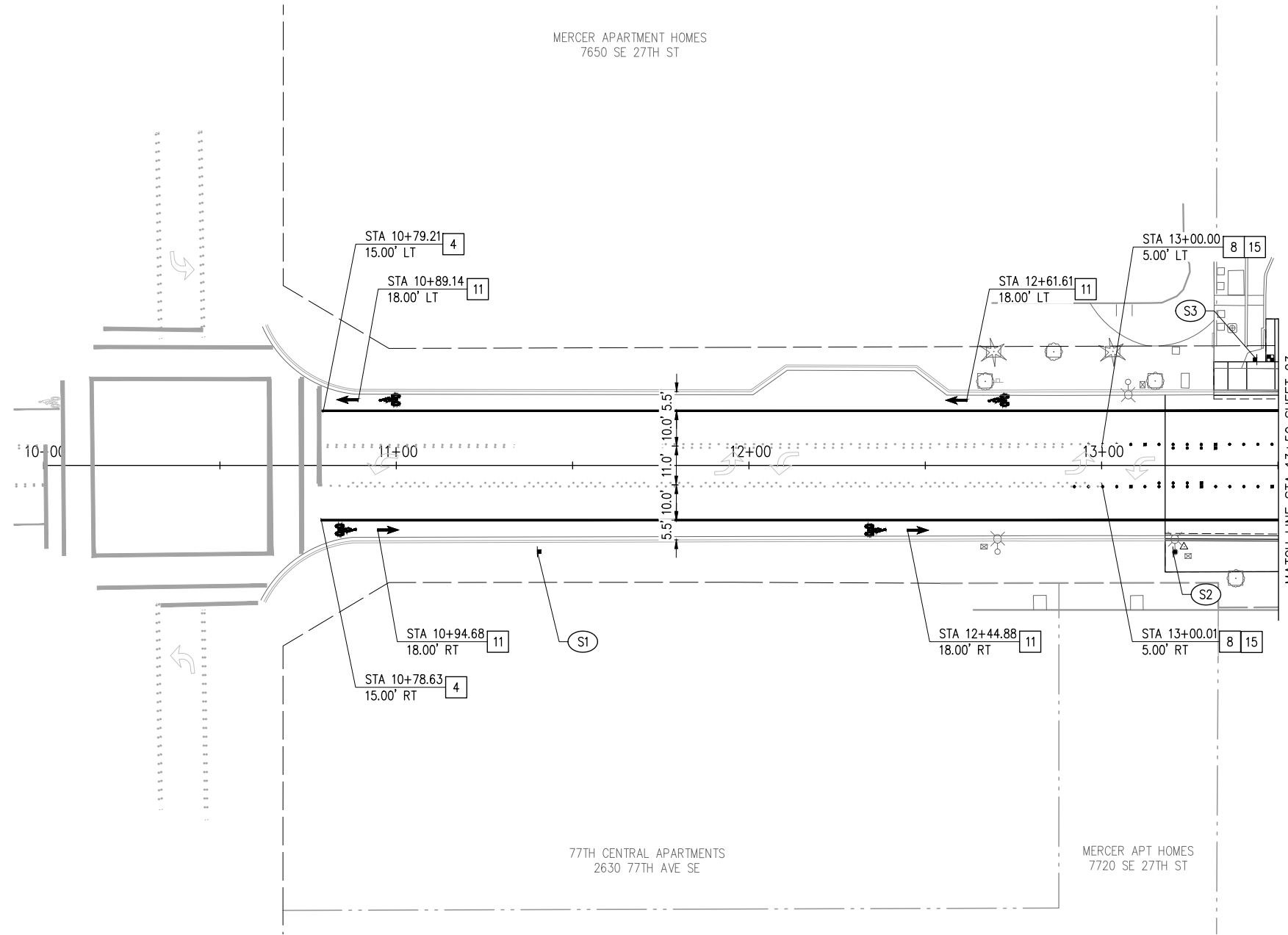
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CITY OF MERCER ISLAND  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

STORMWATER DETAILS	
KPG PROJECT No. 21103	SHT 21 OF 30

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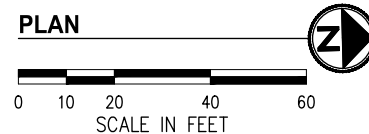


**GENERAL NOTES**

1. REMOVE ALL CONFLICTING EXISTING CHANNELIZATION. SEE SPECIFICATIONS FOR DETAILS.
2. ALL PAVEMENT MATERIAL SHALL CONFORM TO THE "STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION," LATEST EDITION, UNLESS OTHERWISE MODIFIED BY THE SPECIAL PROVISIONS.
3. PRESERVE AND PROTECT ALL SIGNS NOT IDENTIFIED FOR REMOVAL OR RELOCATION.
4. ALL SIGNS AND POSTS TO BE REMOVED SHALL BE SALVAGED TO CITY.
5. ALL NEW AND RELOCATED SIGNS TO HAVE NEW POSTS AND POST BASES. SEE DETAIL, SHEET 24.
6. CONTRACTOR SHALL FIELD LOCATE CHANNELIZATION FOR APPROVAL BY THE ENGINEER PRIOR TO FINAL PLACEMENT.
7. FOR RRFB ASSEMBLY DETAILS, SEE SHEET X & Y.

**CONSTRUCTION NOTES**

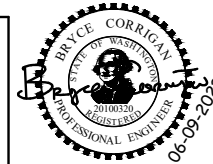
- 4 INSTALL PAINTED WIDE EDGE LINE PER WSDOT STD PLAN M-20.10.
- 8 INSTALL TWO-WAY LEFT-TURN CENTERLINE PER WSDOT STD PLAN M-20.50.
- 11 INSTALL BICYCLE LANE SYMBOL PER WSDOT STD PLAN M-9.50.
- 15 MATCH EXISTING CHANNELIZATION.



SIGN SCHEDULE					
SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE	REMARKS
S1	11+40.00	24.5 RT	R3-17	24" X 18"	NEW, MOUNT ON EXISTING LUMINAIRE
S2	13+20.26	24.5 RT	W11 CUSTOM, "RAISED INTERSECTION AHEAD"	36" X 36"	REMOVE EXISTING "BIKE ROUTE" SIGN, INSTALL ON EXISTING LUMINAIRE
S3	13+44.00	30.0 LT	R3-17	24" X 18"	NEW

NO.	DATE	BY	APPR.	REVISIONS

Approved By		21103CHAN.dwg
ENGINEERING MANAGER	DATE	FILENAME
PROJECT MANAGER	DATE	MKE 5/22
PROJECT ENGINEER	DATE	DESIGNED BY
		MKE 5/22
		DRAWN BY
		BMC 5/22
		CHECKED BY



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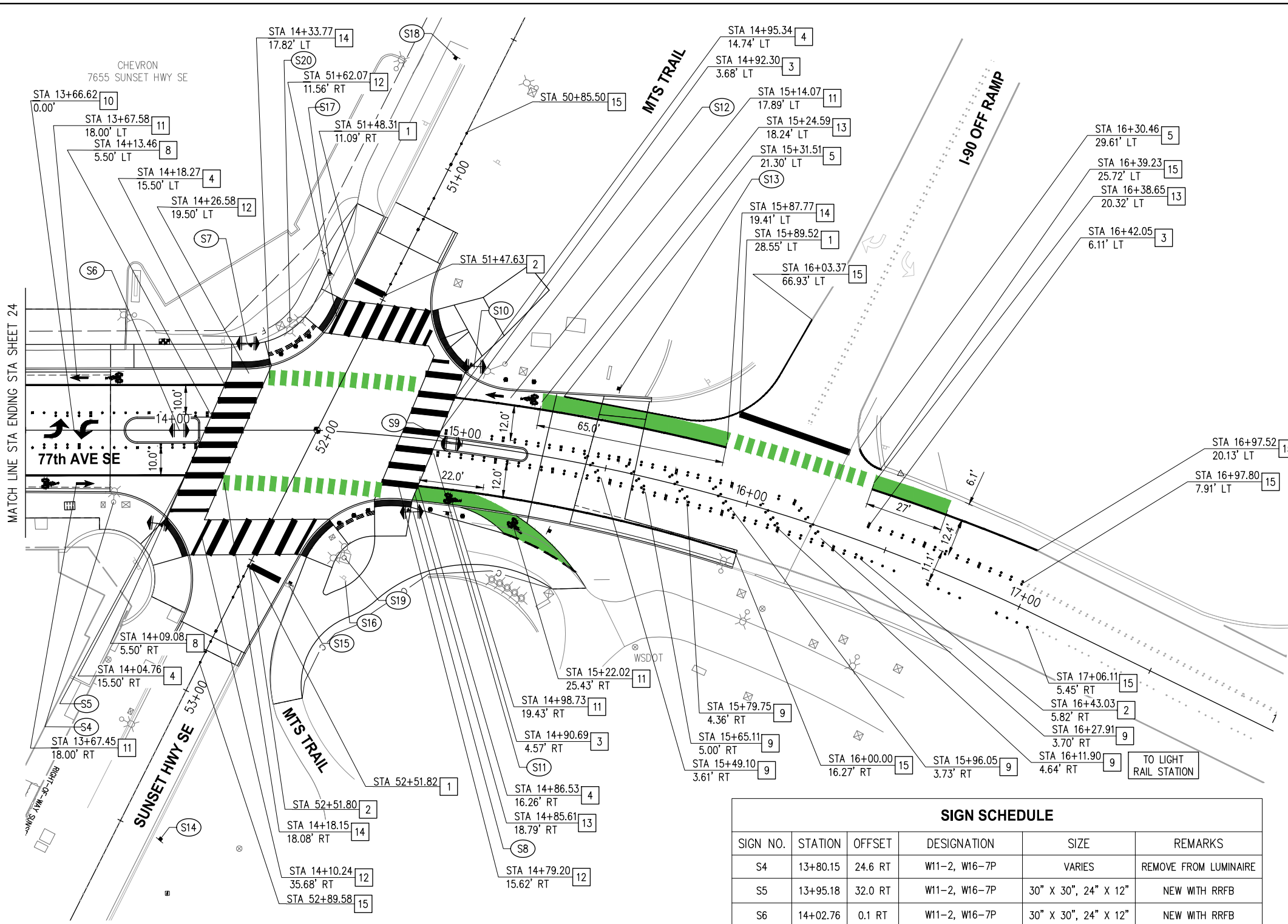


**CITY OF MERCER ISLAND**  
 77TH AVE SE & SUNSET HWY SE  
 INTERSECTION IMPROVEMENTS

CHANNELIZATION & SIGNING PLAN	
KPG PROJECT No. 21103	SHT 22 OF 30



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**GENERAL NOTES**

1. REMOVE ALL CONFLICTING EXISTING CHANNELIZATION. SEE SPECIFICATIONS FOR DETAILS.
2. ALL PAVEMENT MATERIAL SHALL CONFORM TO THE "STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION," LATEST EDITION, UNLESS OTHERWISE MODIFIED BY THE SPECIAL PROVISIONS.
3. PRESERVE AND PROTECT ALL SIGNS NOT IDENTIFIED FOR REMOVAL OR RELOCATION.
4. ALL SIGNS AND POSTS TO BE REMOVED SHALL BE SALVAGED TO CITY.
5. ALL NEW AND RELOCATED SIGNS TO HAVE NEW POSTS AND POST BASES. SEE DETAIL, SHEET 24.
6. CONTRACTOR SHALL FIELD LOCATE CHANNELIZATION FOR APPROVAL BY THE ENGINEER PRIOR TO FINAL PLACEMENT.
7. FOR RRFB ASSEMBLY DETAILS, SEE SHEET X & Y.

**CONSTRUCTION NOTES**

- 1 INSTALL 1' WIDE THERMOPLASTIC STOP BAR.
- 2 INSTALL LANE LINE PER WSDOT STD PLAN M-20.50.
- 3 INSTALL DOUBLE YELLOW CENTERLINE PER DETAIL, SHEET 24.
- 4 INSTALL PAINTED WIDE EDGE LINE PER WSDOT STD PLAN M-20.10.
- 5 INSTALL PAINTED EDGE LINE PER WSDOT M-20.10.
- 8 INSTALL TWO-WAY LEFT-TURN CENTERLINE PER WSDOT STD PLAN M-20.50.
- 9 INSTALL RPM HACHURES PER DETAIL, SHEET 24.
- 10 INSTALL THERMOPLASTIC TYPE 2SL TRAFFIC ARROW PER WSDOT STD PLAN M-24.40.
- 11 INSTALL BICYCLE LANE SYMBOL PER WSDOT STD PLAN M-9.50.
- 12 INSTALL THERMOPLASTIC CROSSWALK MARKINGS PER WSDOT STD PLAN M-15.10.
- 13 INSTALL THERMOPLASTIC GREEN BIKE MARKINGS PER DETAIL, SHEET 24.
- 14 INSTALL THERMOPLASTIC GREEN CROSSBIKE MARKINGS PER DETAIL, SHEET 24.
- 15 MATCH EXISTING CHANNELIZATION.

**SIGN SCHEDULE**

SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE	REMARKS
S4	13+80.15	24.6 RT	W11-2, W16-7P	VARIES	REMOVE FROM LUMINAIRE
S5	13+95.18	32.0 RT	W11-2, W16-7P	30" X 30", 24" X 12"	NEW WITH RRFB
S6	14+02.76	0.1 RT	W11-2, W16-7P	30" X 30", 24" X 12"	NEW WITH RRFB
S7	14+26.02	29.9 LT	W11-2, W16-7P	30" X 30", 24" X 12"	NEW WITH RRFB
S8	14+85.84	25.3 RT	W11-2, W16-7P	30" X 30", 24" X 12"	NEW WITH RRFB
S9	14+95.86	0.3 RT	W11-2, W16-7P	30" X 30", 24" X 12"	NEW WITH RRFB
S10	15+00.65	26.2 LT	W11-2, W-16-7P	30" X 30", 24" X 12"	NEW WITH RRFB
S11	14+97.99	24.3 RT	D3-1, "77TH AVE SE"	VARIES X 8"	REMOVE AND REPLACE
S12	15+10.53	29.1 LT	W11-2, W16-7P	VARIES	REMOVE FROM LUMINAIRE
S13	15+49.30	27.7 LT	W11 CUSTOM, "RAISED INTERSECTION AHEAD"	36" X 36"	NEW

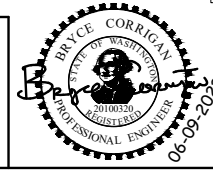
**SIGN SCHEDULE**

SIGN NO.	STATION	OFFSET	DESIGNATION	SIZE	REMARKS
S14	53+50.00	15.0 LT	W11 CUSTOM, "RAISED INTERSECTION AHEAD"	36" X 36"	NEW
S15	52+52.00	15.5 LT	R1-1, D3-1	36" X 36", VARIES X 8"	REMOVE AND REPLACE
S16	52+42.00	32.0 LT	CUSTOM, TO METRO PARK AND RIDE	12" X 18"	PROTECT
S17	51+50.00	20.0 RT	R1-1, D3-1	36" X 36", VARIES X 8"	REMOVE AND REPLACE
S18	50+64.00	15.0 RT	W11 CUSTOM, "RAISED INTERSECTION AHEAD"	36" X 36"	NEW
S19	52+34.90	28.3 LT	FLAG CROSSING INSTRUCTIONS	N/A	REMOVE
S20	51+71.00	25.0 RT	FLAG CROSSING INSTRUCTIONS	N/A	REMOVE

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**Approved By**

ENGINEERING MANAGER	DATE	21103CHAN.dwg	5/22
PROJECT MANAGER	DATE	FILENAME	BMC
PROJECT ENGINEER	DATE	DESIGNED BY	MKE
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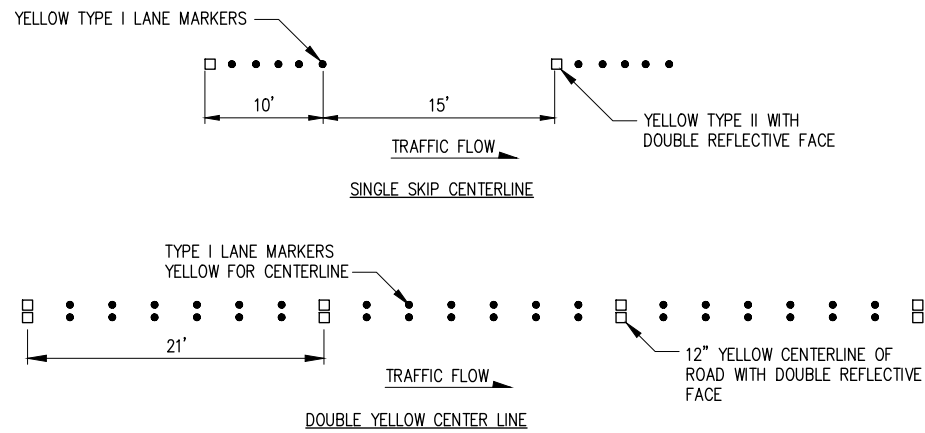
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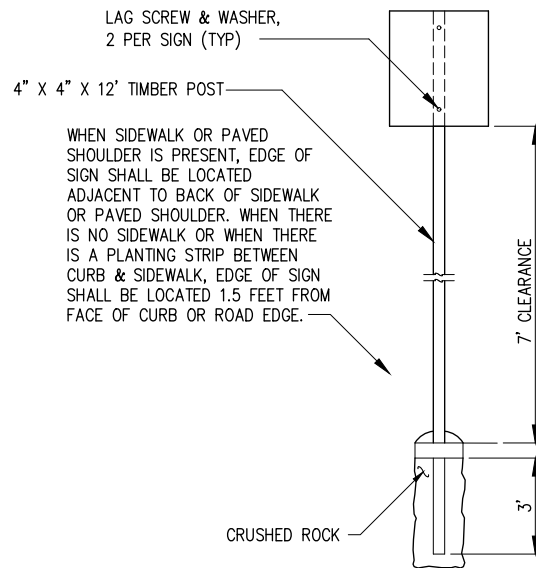
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**INTERSECTION IMPROVEMENTS**

**CHANNELIZATION & SIGNING PLAN**  
 KPG PROJECT No. 21103 SHT 23 OF 30

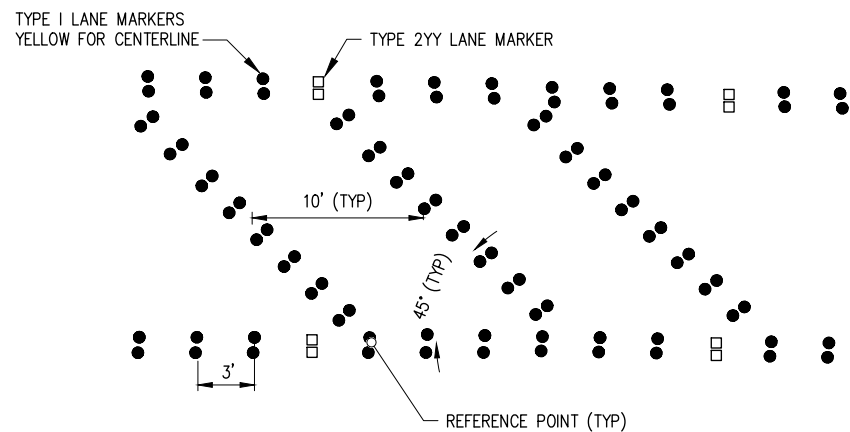
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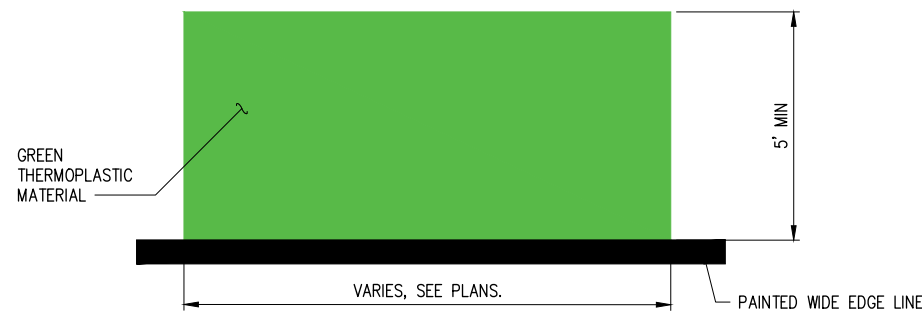
**RAISED PAVEMENT MARKING LAYOUT DETAIL**  
NTS



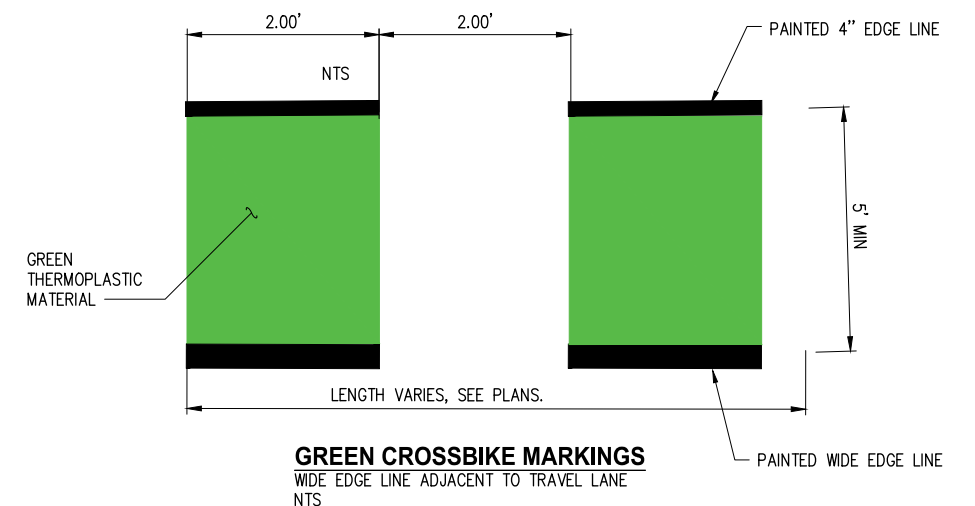
**STANDARD SIGN INSTALLATION**  
NTS



**HACHURES STRIPING DETAIL**  
NTS



**GREEN BIKE MARKINGS**  
WIDE EDGE LINE ADJACENT TO TRAVEL LANE  
NTS

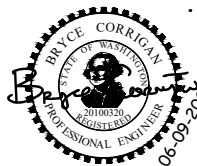


**GREEN CROSSBIKE MARKINGS**  
WIDE EDGE LINE ADJACENT TO TRAVEL LANE  
NTS

NO.	DATE	BY	APPR.	REVISIONS

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ENGINEERING MANAGER	DATE
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**CITY OF MERCER ISLAND**  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

CHANNELIZATION PLAN  
DETAILS

**POLE SCHEDULE**

#	STA	OFFSET	W16-7P L SIGN	W16-7P R SIGN	PPB ARROW DIRECTION	FOUNDATION	REMARKS
1	14+26	29.8' LT	1	1	L	J-21.10	*
2	14+03	0.0' RT	-	2	N/A	J-21.10	*
3	13+95	32.0' RT	1	1	R	J-21.10	*
4	14+86	25.3' RT	1	1	L	J-21.10	*
5	14+96	0.3' RT	-	2	N/A	J-21.10	*
6	15+01	26.8' LT	1	1	R	J-21.10	*

NOTES:  
 \* ANCHOR BOLT SPACING SHALL BE PER BOLT CIRCLE TEMPLATE DETAIL, SHEET 26.

**CONSTRUCTION NOTES**

- ① ③ ④ CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-21.10, EXCEPT BOLT SPACING SHALL BE PER BOLT CIRCLE TEMPLATE DETAIL, SHEET 26. INSTALL RRFB ASSEMBLY INCLUDING ONE RRFB POLE, TWO RRFB'S (BI-DIRECTIONAL, WITH SIDE EMITTING PEDESTRIAN CONFIRMATION LIGHTS), ONE APS RRFB PUSHBUTTON, AND SIGNS PER RRFB ASSEMBLY DETAIL, SHEET 26 AND POLE SCHEDULE, THIS SHEET. SEE SPECIAL PROVISIONS.
- ② ⑤ CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-21.10, EXCEPT BOLT SPACING SHALL BE PER BOLT CIRCLE TEMPLATE DETAIL, SHEET 26. INSTALL RRFB ASSEMBLY INCLUDING ONE RRFB POLE, TWO RRFB'S (BI-DIRECTIONAL, WITH SIDE EMITTING PEDESTRIAN CONFIRMATION LIGHTS), AND SIGNS PER RRFB ASSEMBLY DETAIL, SHEET 26 AND POLE SCHEDULE, THIS SHEET. SEE SPECIAL PROVISIONS.
- ⑥ CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-21.10, EXCEPT BOLT SPACING SHALL BE PER BOLT CIRCLE TEMPLATE DETAIL, SHEET 26. INSTALL RRFB ASSEMBLY INCLUDING ONE RRFB POLE, ONE CONTROL CABINET, TWO RRFB'S (BI-DIRECTIONAL, WITH SIDE EMITTING PEDESTRIAN CONFIRMATION LIGHTS), ONE APS RRFB PUSHBUTTON, AND SIGNS PER RRFB ASSEMBLY DETAIL, SHEET 26 AND POLE SCHEDULE, THIS SHEET. SEE SPECIAL PROVISIONS.
- ⑦ REMOVE EXISTING JUNCTION BOX. INSTALL NEW JUNCTION BOX WITH NON-SKID LID AND FRAME PER WSDOT STD PLAN J-40.10. MATCH NEW GRADE. PROTECT EXISTING CONDUIT AND WIRING DURING CONSTRUCTION.
- ⑧ EXISTING LUMINAIRE POLE TO REMAIN. PROTECT POLE AND ALL ASSOCIATED EQUIPMENT DURING CONSTRUCTION. SEE SPECIAL PROVISIONS.
- ⑨ REMOVE EXISTING LUMINAIRES FROM EXISTING LUMINAIRE POLE. FURNISH AND INSTALL NEW LUMINAIRE FIXTURES, ARMS, AND ALL ASSOCIATED EQUIPMENT PER LUMINAIRE SCHEDULE, THIS SHEET. RECONNECT TO EXISTING WIRING.
- ⑩ INSTALL NEW CONDUIT INTO EXISTING JUNCTION BOX.
- ⑪ INSTALL 2-#8 CONDUCTORS IN EXISTING CONDUIT APPROX 700 FEET TO EXISTING ELECTRICAL SERVICE CABINET (SERVICE AGREEMENT NO. SAS 3440). INSTALL NEW 120V BRANCH CIRCUIT BREAKER IN CABINET FOR RRFB CIRCUIT. MAKE ALL WIRING CONNECTIONS.

**GENERAL NOTES**

- 1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH WSDOT/APWA STANDARD PLANS, STANDARD SPECIFICATIONS, LATEST AMENDMENTS TO THE STANDARD SPECIFICATIONS, CITY STANDARDS, SPECIAL PROVISIONS AND THESE PLANS.
- 2. UTILITY LOCATION (DIAL-A-DIG) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- 3. THE LOCATION OF ALL FEATURES TO BE INSTALLED BY THE CONTRACTOR ARE FOR GRAPHICAL PRESENTATION ONLY. FINAL LOCATIONS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO INSTALLATION.
- 4. ALL NEW FOUNDATION LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- 5. ALL NEW JUNCTION BOXES PLACED IN THE SIDEWALKS SHALL HAVE SKID RESISTANT LIDS AND FRAMES.
- 6. ALL NEW CONDUIT SHALL BE INSTALLED IN THE PUBLIC RIGHT-OF-WAY.
- 7. FOR TRENCH DETAIL SEE SHEET 26.
- 8. FOR COORDINATION WITH THE CITY MAINTENANCE REPRESENTATIVE, CONTRACTOR SHALL CONTACT BRIAN HARTVIGSON 206-275-7809.
- 9. NUMBER OF CONDUIT BENDS BETWEEN PULL POINTS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL). IF NUMBER OF BENDS EXCEEDS LISTED REQUIREMENTS, THE CONTRACTOR SHALL INSTALL ADDITIONAL JUNCTION BOXES, AS DIRECTED BY THE ENGINEER.

**WIRE NOTES**

#	RACEWAY/ CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2"		SPARE
2	2"	4-#10 (RRFB)	
3	2"	2-#10 (RRFB), 1-2CS (PPB)	
4	2"	2-#10 (RRFB), 2-2CS (PPB)	
5	2"	4-#10 (RRFB), 3-2CS (PPB), 2-#8 (POWER)	
6	2"	2-#8 (POWER)	
7	2"	2-#8 (POWER), EXISTING CONDUCTORS	
8	2"	4-#10 (RRFB), 1-2CS (PPB)	

NOTES:

- 1. ALL PVC CONDUIT CONTAINING CONDUCTORS SHALL CONTAIN GROUND WIRE (GROUND WIRE NOT SHOWN). WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN #8 AWG OR AS OTHERWISE NOTED IN THE WIRE NOTES). CONDUITS THAT DO NOT CONTAIN ELECTRICAL CONDUCTORS SHALL INCLUDE A DETECTABLE PULL TAPE AND SHALL BE LABELED "CITY OF MERCER ISLAND".
- 2. ALL CONDUIT SHALL BE RIGID PVC SCH 80 UNLESS NOTED OTHERWISE ON THE PLANS.

**LUMINAIRE SCHEDULE**

LUMINAIRE #	STA	OFFSET	LUMINAIRE TYPE	LUMINAIRE ARM	MOUNTING HEIGHT	BASE	CIRCUIT #	COMMENTS
1, 2	14+41	38+0' LT	LED 96W, 3000K, TYPE IV, B1-U0-G3, 240V	7"	EX	EX	EX	2 @ 90°
3, 4	14+63	43.1' RT	LED 96W, 3000K, TYPE IV, B1-U0-G3, 240V	7"	EX	EX	EX	2 @ 90°

**LEGEND**

EXISTING	NEW	DESCRIPTION
		SHOEBOX HEAD TYPE ROADWAY LUMINAIRE
		COBRA HEAD TYPE ROADWAY LUMINAIRE
		DECORATIVE PEDESTRIAN LUMINAIRE
		TYPE FB SIGNAL POLE
		APS STYLE PUSH BUTTON
		RRFB POLE, EQUIPMENT AND SIGNS
		JUNCTION BOX TYPE 1, 2
		CONDUIT
		CONSTRUCTION NOTE
		POLE NOTE
		WIRE NOTE

NO.	DATE	BY	APPR.	REVISIONS

Approved By		FILENAME	DATE
ENGINEERING MANAGER	DATE	21103ILL.dwg	5/22
PROJECT MANAGER	DATE	DESIGNED BY	5/22
PROJECT ENGINEER	DATE	DRAWN BY	5/22
	DATE	CHECKED BY	5/22



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**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE**  
**INTERSECTION IMPROVEMENTS**

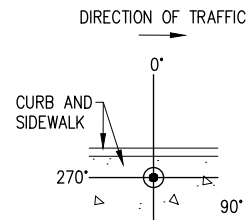
**ILLUMINATION & RRFB PLAN**

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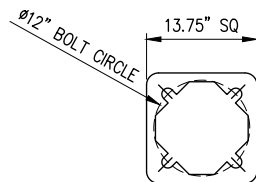


**RRFB NOTES:**

- FOR PEDESTRIAN PUSHBUTTON SIGN ASSEMBLY USE 9"(IN) X 12"(IN) R10-25 SIGN IN ACCORDANCE WITH 2009 MUTCD. SIGN MAY INCLUDE INTEGRATED WARNING LIGHTS.
- SEE STANDARD PLAN J-21.10 FOR SIGNAL STANDARD FOUNDATION DETAILS EXCEPT FOR BOLT CIRCLE, SEE DETAIL, THIS SHEET.
- SEE STANDARD PLAN J-21.17, DETAIL C FOR WIRING DETAILS NOT SHOWN.
- SEE STANDARD PLAN G-30.10 FOR MOUNTING BRACKETS, STEEL STRAPS AND SIGN INSTALLATION DETAILS.
- TERMINATE RRFB CONNECTIONS PER MANUFACTURER'S RECOMMENDATION.
- CONTROL CABINET ENCLOSURE SHALL BE SIZED BY THE RRFB MANUFACTURER AND SHALL FIT ALLOWABLE SPACE ON THE POLE. THE CONTROL CABINET SHALL BE MANUFACTURED PER TERMINAL CABINET REQUIREMENTS OF STANDARD SPECIFICATION SECTION 9-29.25.
- RRFB DISPLAYS SHALL BE LED TYPE MEETING THE INTENSITY REQUIREMENTS OF SAE J595 FOR CLASS 1 YELLOW, BUT SHALL NOT EXCEED 1000 CANDELAS DURING DAYLIGHT AND 500 CANDELAS AFTER DARK.



- NOTES:**
- HANDHOLE ACCESS DOOR SHALL BE MOUNTED AT 90°
  - PPB ORIENTATION SHALL BE PER ENGINEER'S DIRECTIVES IN THE FIELD



**RRFB POLE BOLT CIRCLE**  
NTS



- NOTES:**
- PEDESTRIAN SYMBOL HEIGHT SHALL BE 4"
  - BICYCLE SYMBOL HEIGHT SHALL BE 3"
  - LETTERS SHALL 1" C
  - LEGEND SHALL BE BLACK
  - BACKGROUND SHALL BE YELLOW

**W11-501 PEDESTRIAN WARNING SIGN DETAILS**  
NTS

MECHANICALLY SECURED POLE CAP  
RRFB CONTROLLER CABINET, INCLUDING CONTROLLER WITH ON-BOARD USER INTERFACE AND WIRELESS COMMUNICATION MODULE. MOUNT ON POLE AS DIRECTED BY ENGINEER IN FIELD.

BACK TO BACK RECTANGULAR RAPID FLASHING BEACON (RRFB) LIGHT BARS WITH PEDESTRIAN WARNING BEACONS. MOUNT AS DIRECTED BY ENGINEER IN FIELD.

BACK TO BACK W11-2 (36"x36") SIGNS WITH FLUORESCENT YELLOW TYPE IX RETROREFLECTIVE SURFACE

BACK TO BACK W16-7P (24"x12") SIGNS WITH FLUORESCENT YELLOW TYPE IX RETROREFLECTIVE SURFACE

W11-501 SIGN 12"x12" PER DETAIL, THIS SHEET

APS STYLE PUSH BUTTON ASSEMBLY WITH 9"x12" SIGN (R10-25) - AS NOTED ON THE PLAN.

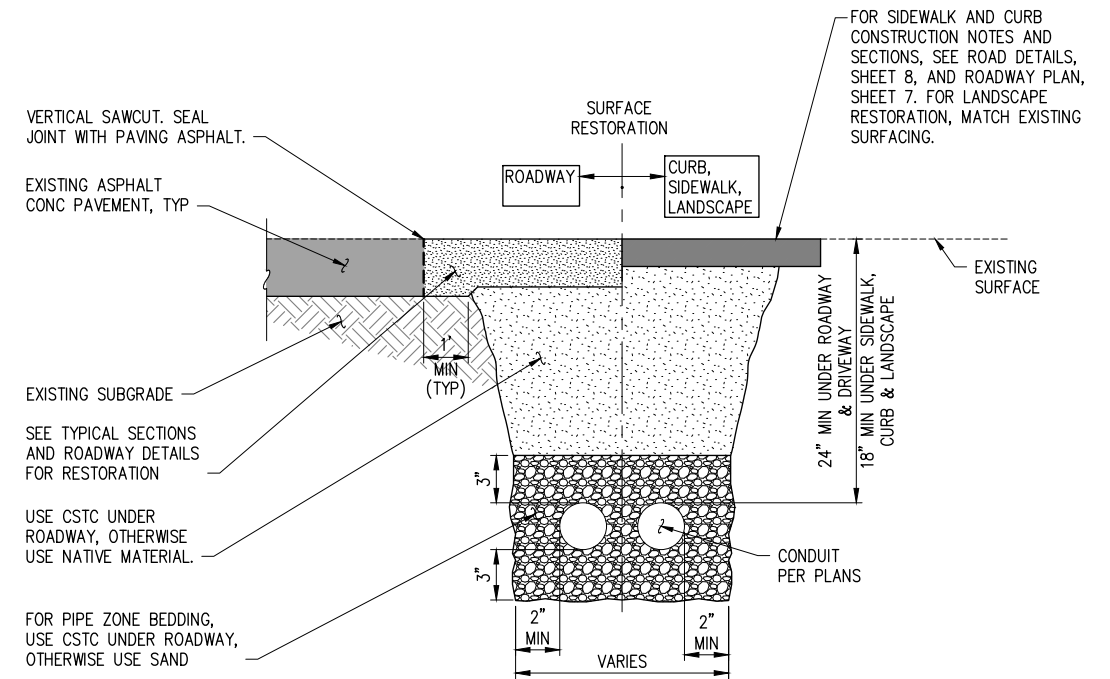
4-1/2" O.D. DIAMETER SPUN ALUMINUM POLE (SEE SPECIAL PROVISIONS)

BOX-TYPE SLIP FIT BREAKAWAY METAL BASE WITH HANDHOLE, THREADED TO ACCEPT 4"-8 NPT METAL POLE (SEE SPECIAL PROVISIONS)

TOP OF SIDEWALK  
BACK OF SIDEWALK  
4'-0" (MIN)  
GROUT AS NEEDED  
FOUNDATION PER WSDOT STD PLAN J-21.10, EXCEPT BOLT CIRCLE SHALL BE PER DETAIL, THIS SHEET

**RRFB POLE ELEVATION**  
NTS

**RRFB POLE AND ATTACHMENTS SHALL BE FURNISHED BY THE CITY AND INSTALLED BY THE CONTRACTOR. CONTRACTOR SHALL INSTALL FOUNDATION, GROUT, AND FIELD WIRING. SEE SPECIAL PROVISIONS.**



**TYPICAL CONDUIT TRENCH DETAIL**  
NTS

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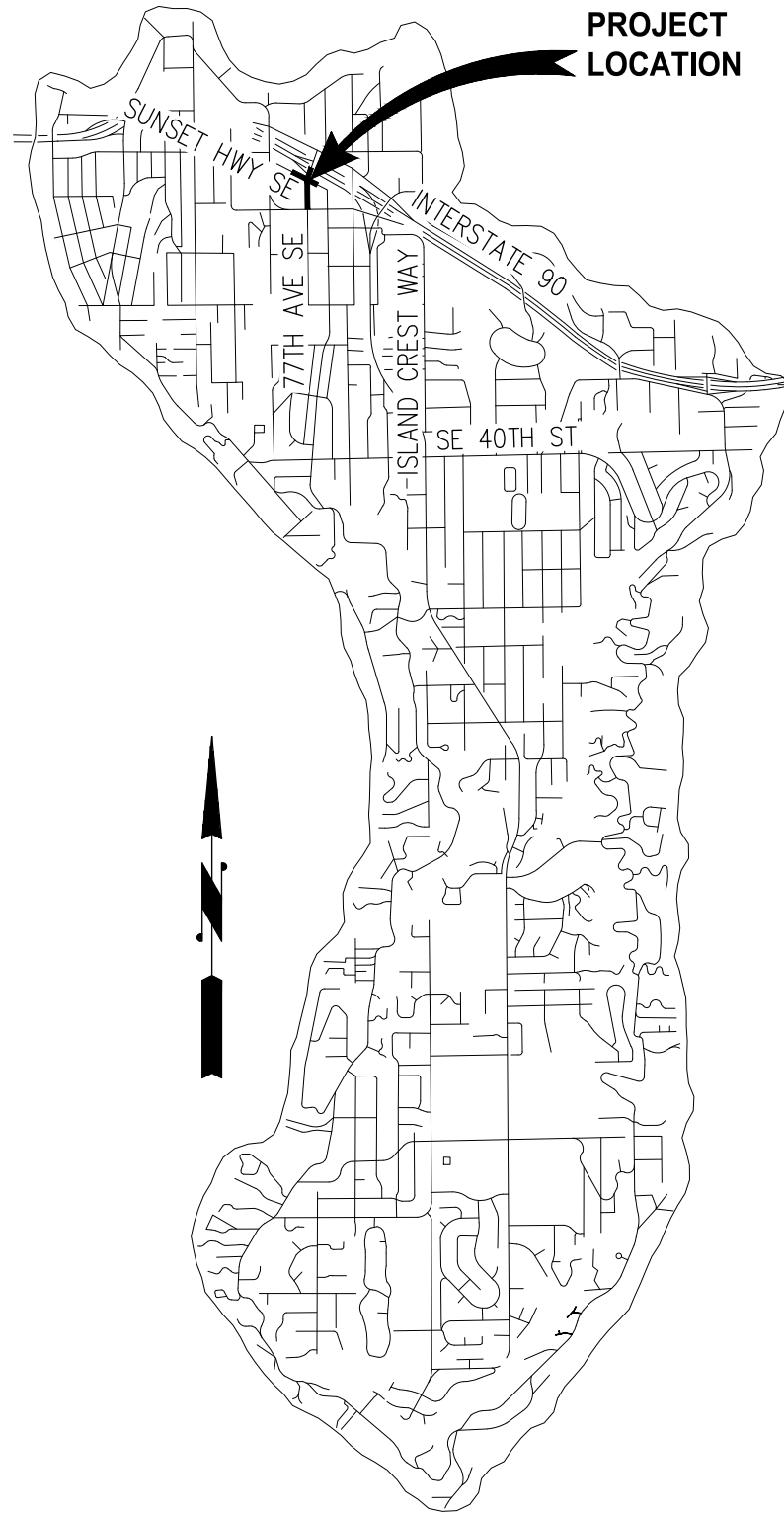
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**CITY OF MERCER ISLAND**  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS

ILLUMINATION & RRFB PLAN	
ILLUMINATION & RRFB DETAILS	
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**VICINITY MAP**  
NTS

**PROJECT LOCATION**

**CHANNELIZATION DEVICE SPACING**

POSTED SPEED LIMIT (MPH)	IN TAPER (FEET)	IN TANGENT (FEET)
25 / 30	10 TO 20	40

**SIGN SPACING = X (1)**

ROAD TYPE	SPEED LIMIT	SIGN SPACING
URBAN STREETS	25 MPH OR LESS	100' ± (1)
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

(1) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS

**MIN TAPER LENGTH = L (feet)**

LANE WIDTH (FEET)	POSTED SPEED (MPH)		
	25	30	35
10	105	150	205
11	115	165	225
12	125	180	245

**BUFFER DATA**

LONGITUDINAL BUFFER SPACE = B						
POSTED SPEED (MPH)	25	30	35	40	45	50
LENGTH (B)	155'	200'	250'	305'	360'	425'

PROTECTION VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA. NO SPECIFIED DISTANCE REQUIRED

**GENERAL NOTES**

1. MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
2. ALL TRAFFIC CONTROL TO COMPLY WITH MUTCD REQUIREMENTS.
3. MINIMUM TEMPORARY LANE WIDTHS SHALL BE 10'.
4. ALL CONSTRUCTION SIGNS ARE CLASS C UNLESS DESIGNATED OTHERWISE.
5. THE CONTRACTOR IS REQUIRED TO PROVIDE PEDESTRIAN ACCESS PER SECTION 1-10 OF THE SPECIAL PROVISIONS.
6. THE CONTRACTOR SHALL NOTIFY THE CITY'S PROJECT MANAGER IMMEDIATELY SHOULD TRAFFIC CONTROL CONFLICTS, COORDINATION, AND SAFETY CONCERNS ARISE WITH SOUND TRANSIT'S CONCURRENT PROJECT CONSTRUCTION AND TRAFFIC CONTROL NEEDS.
7. PHASE ONE: NORTHBOUND 77TH AVE SE TRAFFIC SHALL REMAIN CLOSED FOR DURATION OF PHASE ONE CONSTRUCTION AT THE INTERSECTION. NORTHBOUND ACCESS TO CHEVRON SHALL BE PROVIDED AT ALL TIMES. SOUTHBOUND TRAFFIC SHALL BE MAINTAINED 24 HOURS PER DAY. WEST SEGMENT OF SUNSET HIGHWAY TRAFFIC SHALL HAVE FLAGGER CONTROLLED ACCESS. TWO WAY ACCESS SHALL BE PROVIDED WHILE CONTRACTOR IS ON SITE. RIGHT-IN, RIGHT-OUT SHALL BE PROVIDED WHILE CONTRACTOR IS OFFSITE. EAST SEGMENT SUNSET HIGHWAY SHALL BE CLOSED AT THE INTERSECTION. DRIVEWAY/GARAGE ACCESS SHALL BE MAINTAINED TO ADJACENT BUILDING.
8. PHASES TWO AND THREE: WEST SEGMENT OF SUNSET HIGHWAY ONE-WAY TRAFFIC SHALL ONLY BE ALLOWED WHILE CONTRACTOR IS ON SITE AND DURING CROSSWALK INSTALLATION. PROVIDE FOR TWO-WAY TRAFFIC DURING CONSTRUCTION OFF HOURS.
9. WORK HOURS SHALL BE 7AM - 6PM, ANY CONSECUTIVE 8 HOUR PERIOD. SEE SPECIAL PROVISIONS SECTION 1-08.
10. PROTECTION OF DROP-OFFS AND ABRUPT EDGES SHALL BE PER THE WSDOT STANDARD SPECIFICATIONS.

**DESIGN DATA**

	77TH AVE SE
FUNCTIONAL CLASS:	URBAN ARTERIAL
HIGHWAY DESIGN CLASS:	N/A
NHS STATUS:	NON-NHS
DESIGN MATRIX:	4
I-90 ACCESS CONTROL:	LIMITED ACCESS FULLY CONTROLLED
77TH AVE SE ACCESS:	CATEGORY 2
DESIGN VEHICLE:	SU-30
POSTED/ DESIGN SPEED:	25 MPH/25 MPH
TERRAIN:	ROLLING
TRUCK %:	9
MILE POST RANGE	6.8-6.9
I-90	090 P1 0656 & 090 LX 00685

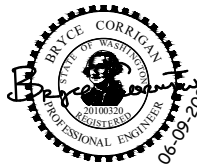
FOR USE AND ADOPTION BY THE CONTRACTOR PER SPECIAL PROVISION 1-10.  
TRAFFIC CONTROL AND PHASING PLAN PREPARED BY:  
BRYCE CORRIGAN, PE  
KPG PSOMAS  
BRYCE@KPG.COM, 206-267-1039  
MERCER ISLAND PROJECT MANAGER:  
LIA KLEIN, PE  
LIA.KLEIN@MERCERISLAND.GOV, 206-275-7655

**WSDOT NORTHWEST REGION  
APPROVED TRAFFIC CONTROL PLAN**

TRAFFIC ENGINEER - AREA OPERATIONS \_\_\_\_\_  
SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
PRINT \_\_\_\_\_  
  
ENGINEERING MANAGER \_\_\_\_\_  
SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
PRINT \_\_\_\_\_

NO.	DATE	BY	APPR.	REVISIONS

Approved By		21103TC.dwg
ENGINEERING MANAGER	DATE	BMC 5/22
PROJECT MANAGER	DATE	BMC 5/22
PROJECT ENGINEER	DATE	BMC 5/22
		CHECKED BY DATE



**KPG PSOMAS**  
Seattle  
3131 Elliott Avenue, Suite 400  
Seattle, WA 98121 206.286.1640  
Tacoma | Wenatchee | KPG.com

**BID DOCUMENT**



**CITY OF MERCER ISLAND  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS**

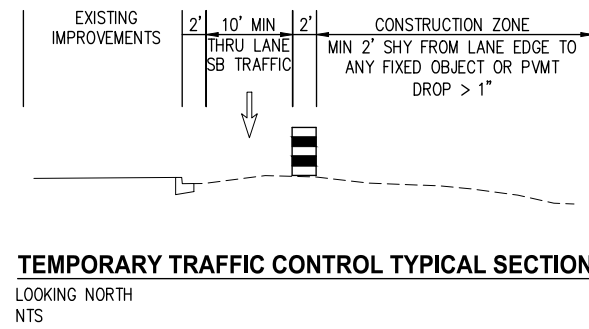
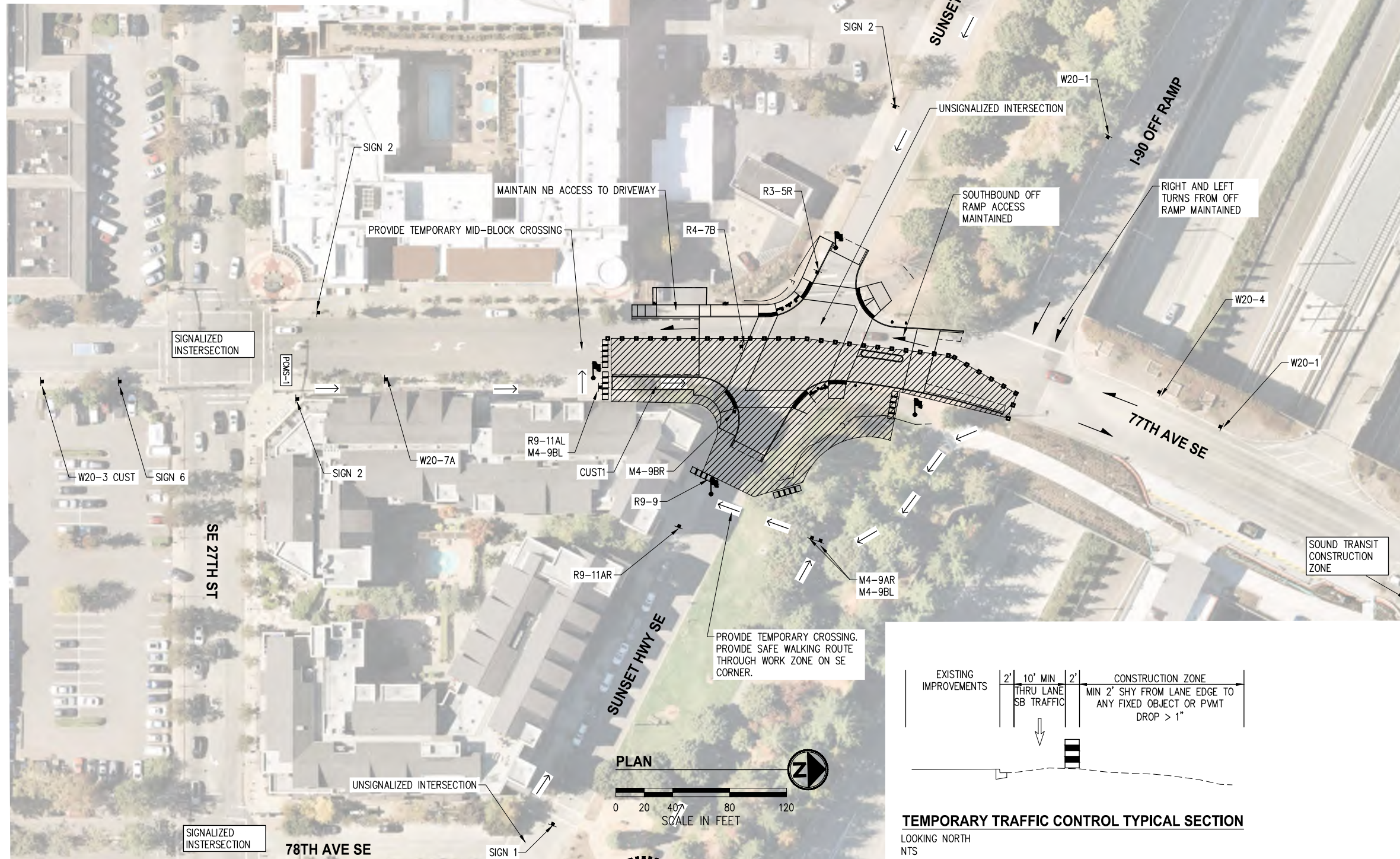
**TRAFFIC CONTROL & DETOUR PLANS  
TRAFFIC CONTROL GENERAL NOTES**



**PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) NOTES**

1. PCMS SHALL BE IN PLACE SEVEN CALENDAR DAYS PRIOR TO ROAD CLOSURES.
2. FINAL LOCATIONS OF PCMS SIGNS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
3. PORTABLE CHANGEABLE MESSAGE SIGN 1 (PCMS-1) SHALL READ:

PHASE 1 NB 77TH AVE SE  
CLOSED AT 27TH ST ROAD WORK AHEAD [DATES]



**TRAFFIC CONTROL LEGEND**

- SIGN
- WORK ZONE
- FLAGGER
- TYPE-2 BARRICADE
- VEHICLE PATH
- PEDESTRIAN/BICYCLE PATH
- CHANNELIZATION DEVICE
- PORTABLE CHANGEABLE MESSAGE SYSTEM

SIGN 6

W20-7A

W20-1

M4-9BL

W20-4

M4-9BR

SIGN 1

M4-9AR

R9-9

R9-11AR/L

SIGN 2

R3-5R

R3-5R

CUST1

**WSDOT APPROVED TRAFFIC CONTROL PLAN**

TRAFFIC ENGINEER - AREA OPERATIONS \_\_\_\_\_  
 SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
 PRINT \_\_\_\_\_

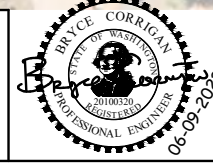
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 SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
 PRINT \_\_\_\_\_

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NO.	DATE	BY	APPR.	REVISIONS

Approved By

ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE
PROJECT ENGINEER	DATE



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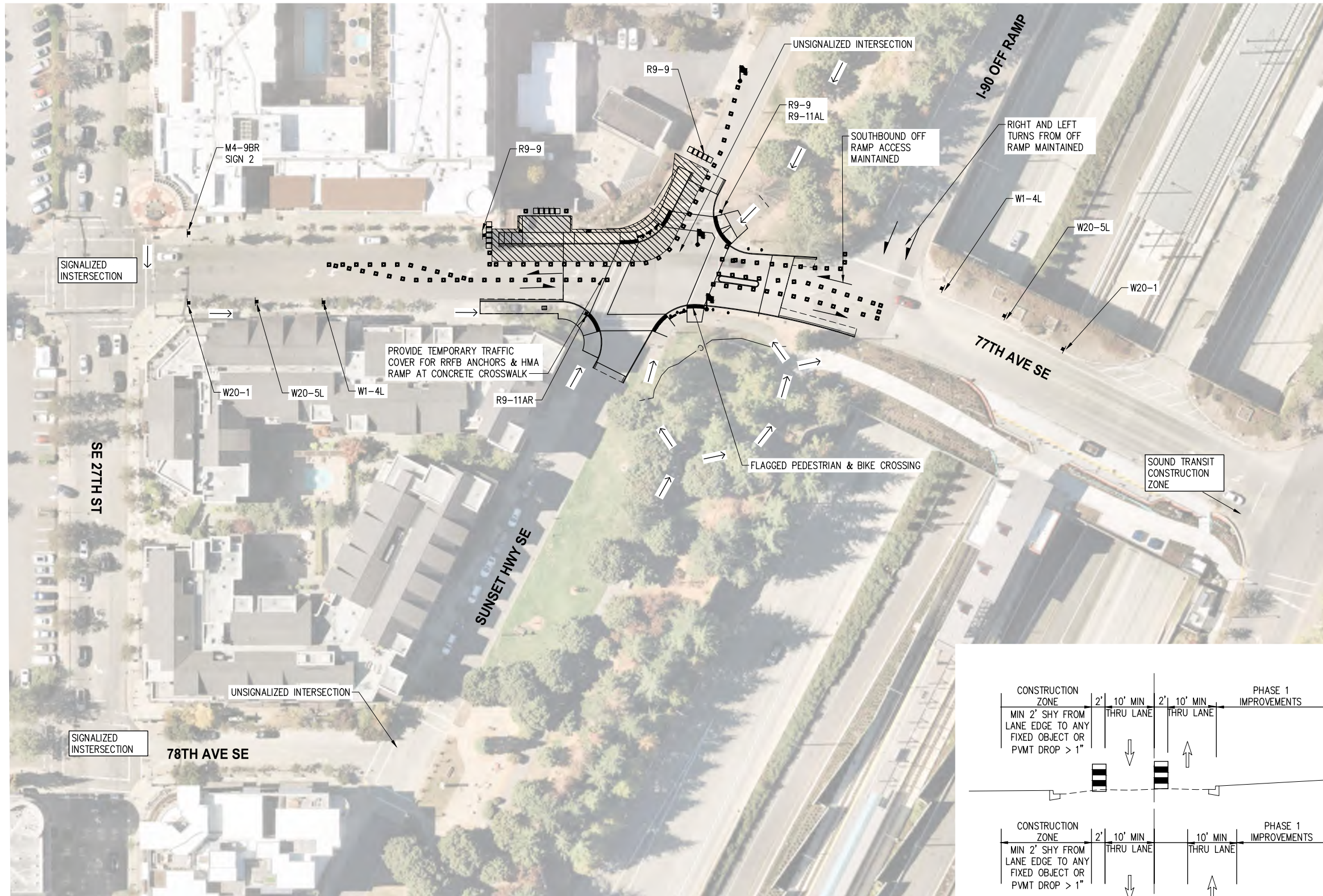
**BID DOCUMENT**



**CITY OF MERCER ISLAND**  
**77TH AVE SE & SUNSET HWY SE**  
**INTERSECTION IMPROVEMENTS**



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**TRAFFIC CONTROL LEGEND**

- SIGN
- WORK ZONE
- FLAGGER
- TYPE-2 BARRICADE
- VEHICLE PATH
- PEDESTRIAN/BICYCLE PATH
- CHANNELIZATION DEVICE
- PORTABLE CHANGEABLE MESSAGE SYSTEM

W20-1

W20-7A

W1-4L

M4-9BR

M4-9BL

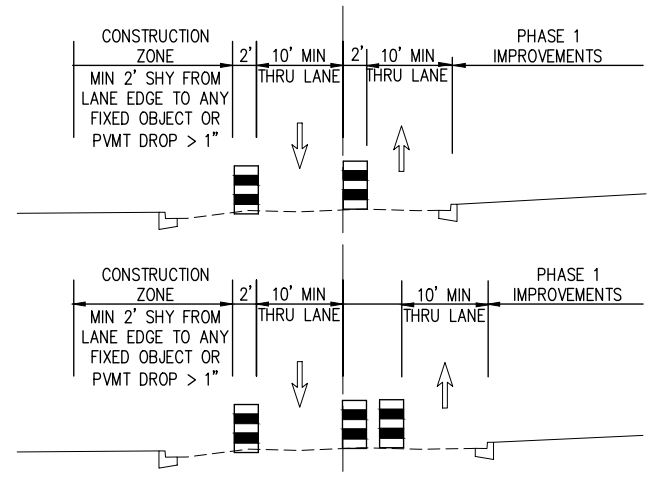
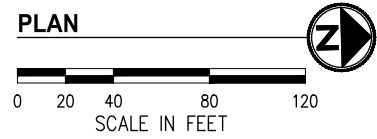
M4-9A(R)

R9-9

CUST1

R9-11AR/L



**TEMPORARY TRAFFIC CONTROL TYPICAL SECTION**  
NTS

**WSDOT NORTHWEST REGION  
APPROVED TRAFFIC CONTROL PLAN**

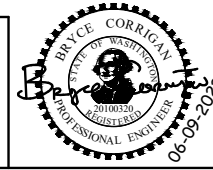
TRAFFIC ENGINEER - AREA OPERATIONS \_\_\_\_\_  
 SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
 PRINT \_\_\_\_\_

ENGINEERING MANAGER \_\_\_\_\_  
 SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
 PRINT \_\_\_\_\_

NO.	DATE	BY	APPR.	REVISIONS

**Approved By**

ENGINEERING MANAGER	DATE	FILENAME	
PROJECT MANAGER	DATE	RBD	5/22
PROJECT ENGINEER	DATE	DESIGNED BY	5/22
		RBD	5/22
		DRAWN BY	5/22
		BMC	5/22
		CHECKED BY	DATE



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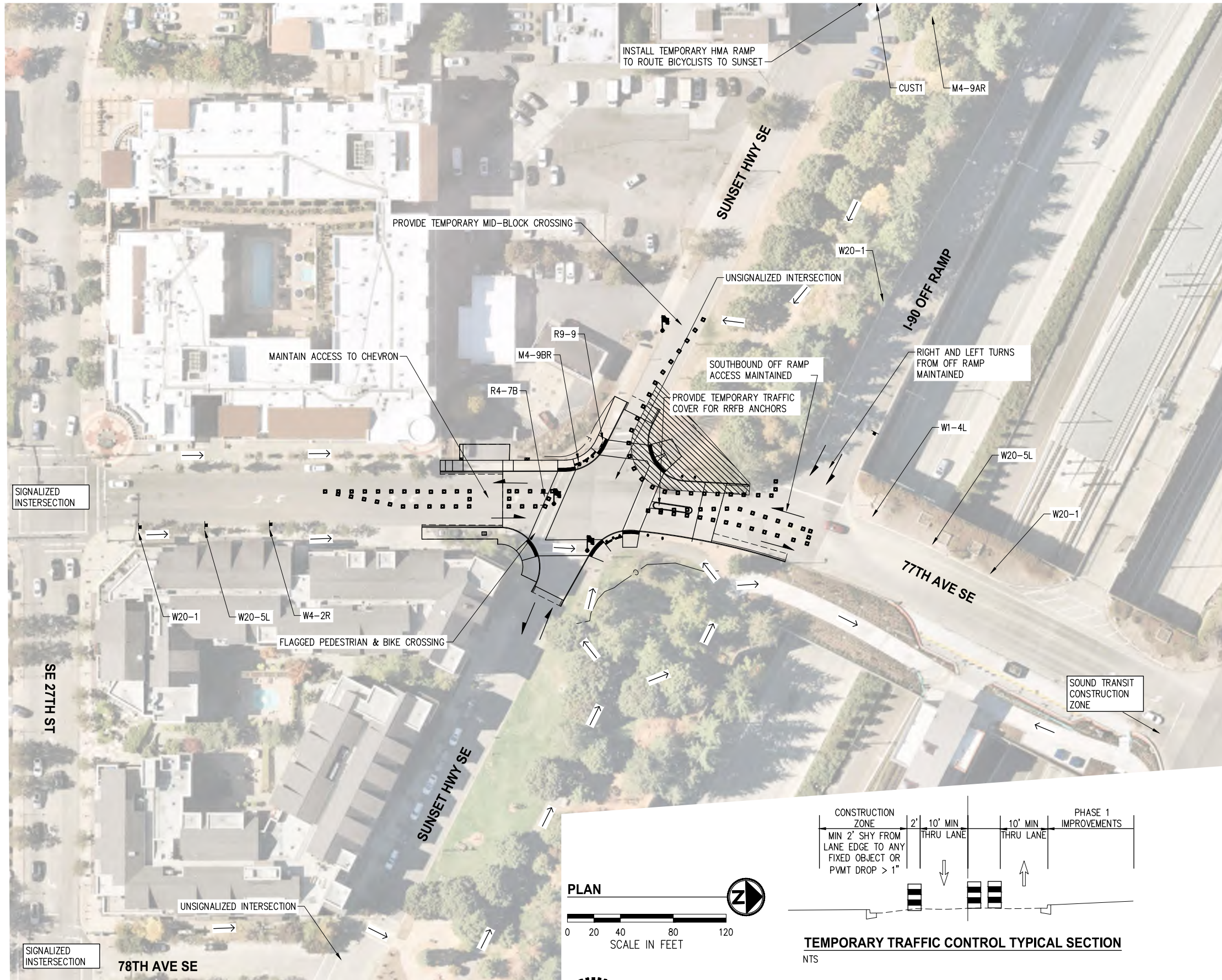
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**CITY OF MERCER ISLAND  
77TH AVE SE & SUNSET HWY SE  
INTERSECTION IMPROVEMENTS**

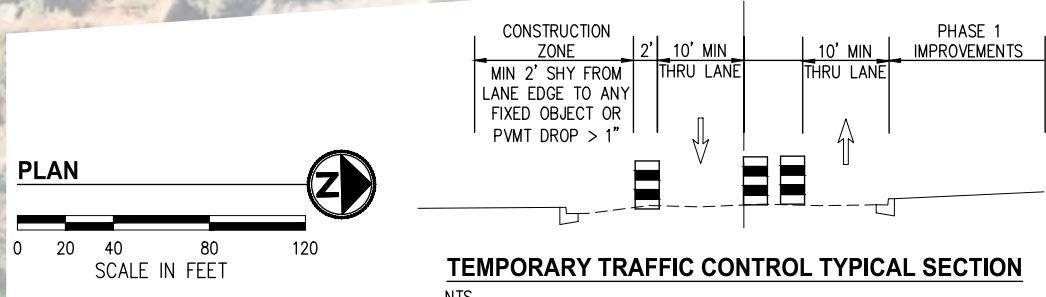
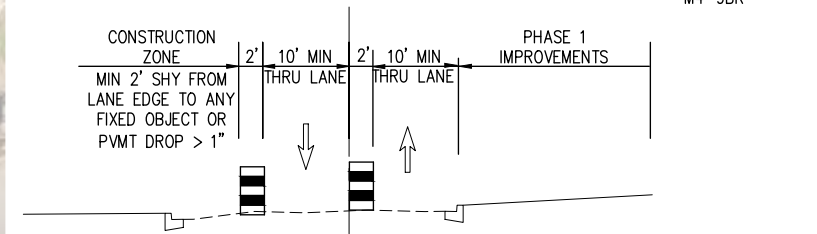


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**TRAFFIC CONTROL LEGEND**

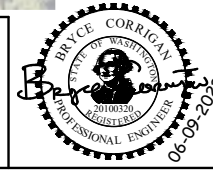
- SIGN
- WORK ZONE
- FLAGGER
- TYPE-2 BARRICADE
- VEHICLE PATH
- PEDESTRIAN/BICYCLE PATH
- CHANNELIZATION DEVICE
- PORTABLE CHANGEABLE MESSAGE SYSTEM
- LEFT LANE CLOSED AHEAD  
W20-5L
- KEEP RIGHT  
R4-7B
- ROAD WORK AHEAD  
W20-1
- BICYCLIST DETOUR  
M4-9AR
- NO PARKING  
FROM [ ] TO [ ]  
TOW-AWAY AREA  
RCW 46.55.113  
CUST1
- DETOUR  
M4-9BR
- W1-4L
- W4-2R



NO.	DATE	BY	APPR.	REVISIONS

**Approved By**

ENGINEERING MANAGER	DATE	21103TC.dwg	
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**CITY OF MERCER ISLAND**  
77TH AVE SE & SUNSET HWY SE  
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**WSDOT NORTHWEST REGION**  
**APPROVED TRAFFIC CONTROL PLAN**

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PRINT \_\_\_\_\_

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PRINT \_\_\_\_\_

KPG PROJECT No. 21103 SHT 30 OF 30