

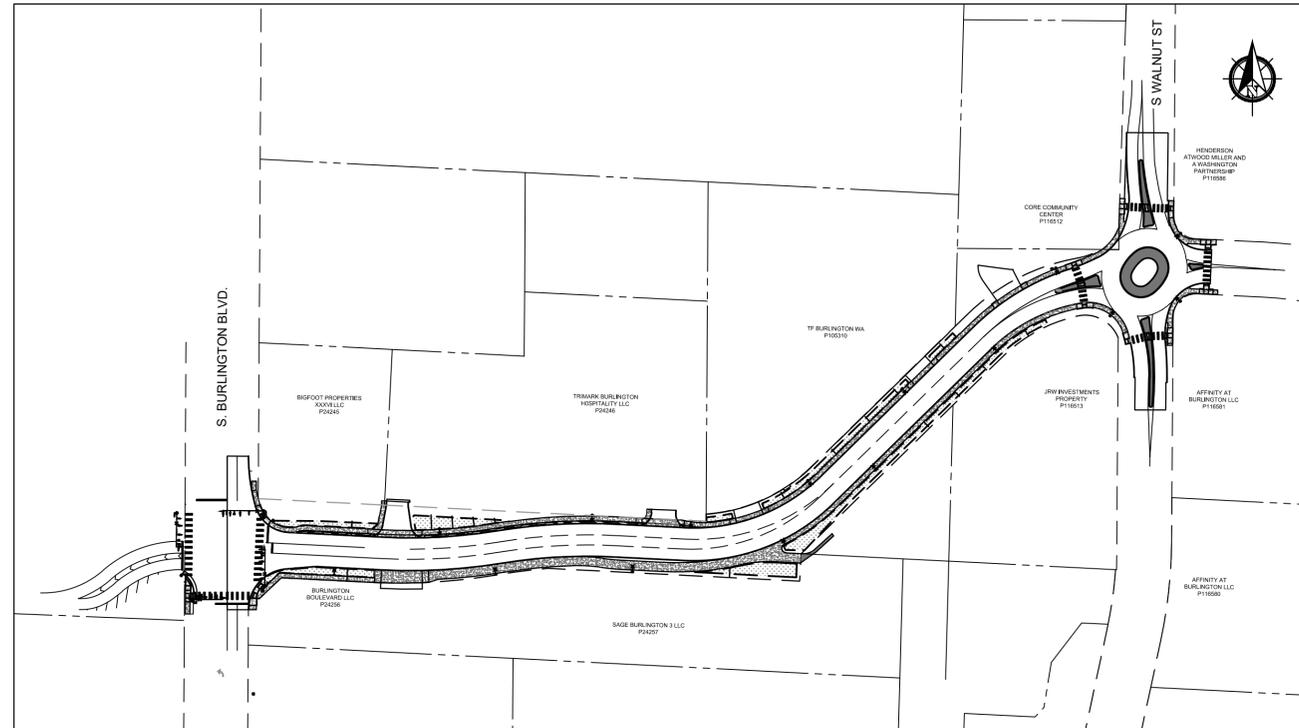
CITY OF BURLINGTON
DEPARTMENT OF PUBLIC WORKS

EAST-WEST CONNECTOR

BURLINGTON, WASHINGTON
JANUARY 2023

EXHIBIT "2" - Plans Road

SHEET INDEX	
SHT. NO.	DESCRIPTION
TS	TITLE SHEET
LAA	LEGEND AND ABBREVIATIONS
ACR	ALIGNMENT, CONTROL, AND RIGHT-OF-WAY PLAN
RS1	ROADWAY SECTIONS
RS2	ROADWAY SECTIONS
EC1	EXISTING CONDITIONS, EROSION CONTROL, AND SITE PREPARATION PLAN
EC2	EXISTING CONDITIONS, EROSION CONTROL, AND SITE PREPARATION PLAN
EC3	EXISTING CONDITIONS, EROSION CONTROL, AND SITE PREPARATION PLAN
EC4	EXISTING CONDITIONS, EROSION CONTROL, AND SITE PREPARATION PLAN
EC5	EXISTING CONDITIONS, EROSION CONTROL, AND SITE PREPARATION PLAN
EC6	EXISTING CONDITIONS, EROSION CONTROL, AND SITE PREPARATION PLAN
RU1	ROAD AND UTILITIES PLAN AND PROFILE
RU2	ROAD AND UTILITIES PLAN AND PROFILE
RU3	ROAD AND UTILITIES PLAN AND PROFILE
RU4	ROAD AND UTILITIES PLAN AND PROFILE
RU5	ROAD AND UTILITIES PLAN
RU6	ROAD AND UTILITIES PLAN
R11	ROUNDAABOUT ISLAND GRADING PLAN
R12	ROUNDAABOUT ISLAND DETAILS AND GRADING TABLE
R13	ROUNDAABOUT ISLAND DETAILS
SD1	STORMWATER MANAGEMENT PLAN AND PROFILE
SD2	STORMWATER MANAGEMENT PLAN AND PROFILE
SD3	STORMWATER MANAGEMENT PLAN AND PROFILE
SD4	STORMWATER MANAGEMENT PLAN AND PROFILE
SD5	STORMWATER MANAGEMENT PLAN AND PROFILE
RD1	ROADWAY DETAILS
RD2	ROADWAY DETAILS
RD3	ROADWAY DETAILS
RD4	ROADWAY DETAILS
RD5	ROADWAY DETAILS
RD6	ROADWAY DETAILS
PMS1	PAVEMENT MARKINGS AND SIGNAGE PLAN
PMS2	PAVEMENT MARKINGS AND SIGNAGE PLAN
PMS3	PAVEMENT MARKINGS AND SIGNAGE PLAN
PMS4	PAVEMENT MARKINGS AND SIGNAGE PLAN
TS1	LIGHTING/SIGNAL PLAN
TS2	LIGHTING/SIGNAL PLAN
TS3	LIGHTING/SIGNAL PLAN
TS4	LIGHTING/SIGNAL PLAN
TS5	LIGHTING/SIGNAL PLAN
TS6	LIGHTING/SIGNAL PLAN
MP1	MITIGATION PLANTING PLAN
MP2	MITIGATION PLANTING DETAILS
L1	LANDSCAPING PLANS
L2	LANDSCAPING PLANS
L3	LANDSCAPING PLANS
L4	LANDSCAPING PLANS
L5	LANDSCAPING PLANS
L6	LANDSCAPING PLANS
L7	LANDSCAPING PLANS
L8	LANDSCAPING PLANS
L9	LANDSCAPING PLANS
DT1	PROJECT DETAILS
DT2	PROJECT DETAILS
DT3	PROJECT DETAILS
CS	CONSTRUCTION SPECIFICATIONS



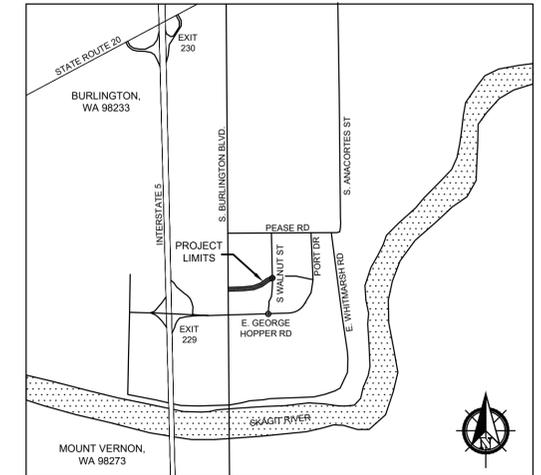
PROJECT SITE MAP
SCALE: 1"=100'

PROJECT DESCRIPTION

THIS PROJECT EXPANDS THE COSTCO DRIVE/SOUTH BURLINGTON BOULEVARD SIGNALIZED INTERSECTION TO SUPPORT A NEW EASTSIDE LEG, UPGRADES THE SOUTH WALNUT STREET/EAST MCCORQUEDALE ROAD INTERSECTION TO A SINGLE-LANE ROUNDABOUT, AND PROVIDES A NEW MULTI-LANE CONNECTOR ROAD BETWEEN SOUTH BURLINGTON BOULEVARD AND SOUTH WALNUT STREET. THE CONNECTOR IS APPROXIMATELY 1,000 FEET LONG AND IS LINED WITH CONCRETE CURBING AND CONCRETE PEDESTRIAN SURFACES, AND PROVIDES STORMWATER MANAGEMENT (COLLECTION, FLOW CONTROL, AND TREATMENT) FACILITIES. THE CONNECTOR HAS A 5-FOOT SIDEWALK AND A 10-FOOT SHARED-USE PATH WITH PLANTER STRIP BUFFERS. A DESIGNATED WESTBOUND LEFT-TURN LANE AT SOUTH BURLINGTON BOULEVARD WILL BE CONSTRUCTED AS WELL A TWO-WAY LEFT-TURN LANE ALONG THE CORRIDOR. THE CONNECTOR'S LANES HAVE BEEN DESIGNED TO ALIGN WITH THE OPPOSING LANES OF COSTCO DRIVE WHICH WILL BE RECHANNELIZED TO PROVIDE EFFECTIVE SIGNAL TIMING AT THE COSTCO DRIVE/SOUTH BURLINGTON BOULEVARD INTERSECTION.

GENERAL NOTES

- DISTANCES ARE EXPRESSED IN U.S. SURVEY FEET AND DECIMALS.
- THIS MAP REPRESENTS THE EXISTING CONDITIONS AS FOUND ON THE DATES SURVEY WORK WAS PERFORMED IN JULY 2018 AND JANUARY 2021.
- THE UTILITIES SHOWN HEREON REPRESENT WHAT WAS FOUND BY FIELD INVESTIGATION. THE ONE-CALL UTILITY LOCATE SERVICE WAS USED. OTHER UNDERGROUND UTILITIES MAY EXIST IN THE AREA, BUT THIS MAP IS NOT REPRESENTING UTILITIES THAT WERE NOT APPARENT ON THE GROUND. IT IS STRONGLY RECOMMENDED THAT ALL UTILITY COMPANIES BE CONTACTED PRIOR TO CONSTRUCTION.
- OCCUPATIONAL INDICATORS AND EXISTING FENCE LINE NOTE:
THIS SURVEY MAY DEPICT EXISTING FENCE LINES AND/OR ENCROACHMENTS IN ACCORDANCE WITH WAC CH 332.130. THESE OCCUPATIONAL INDICATORS MAY INDICATE A POTENTIAL FOR CLAIMS OF UNWRITTEN TITLE OWNERSHIP. THE LEGAL RESOLUTION OF OWNERSHIP BASED UPON UNWRITTEN TITLE CLAIMS HAS NOT BEEN RESOLVED BY THIS SURVEY.



VICINITY MAP
SECTION 8, TOWNSHIP 34 N, RANGE 4 E, W.M.
1"= 2000'

PROPERTY INFORMATION

LOCATION: BURLINGTON, WA 98233
PARCEL NOS.: P24245, P24246, P24256, P24257, P105310, P116513
PROPERTY ID: PUBLIC RIGHT-OF-WAY
ZONING: C-1 GENERAL COMMERCIAL

PLAT UTILITY PROVIDERS

- PHONE/CABLE/INTERNET 1: ZIPLY FIBER (360.354.1755)
- PHONE/CABLE/INTERNET 2: COMCAST (425.508.7335)
- NATURAL GAS: CASCADE NATURAL GAS (360.336.3866)
- POWER: PUGET SOUND ENERGY (360.941.2003)
- REFUSE DISPOSAL: WASTE MANAGEMENT (360.757.4068)
- WATER: SKAGIT PUBLIC UTILITY DISTRICT NO. 1 (360.424.7104)
- STREETS, SEWER, STORM: CITY OF BURLINGTON (360.757.4214)

SURVEY NOTES

BASIS OF BEARING: HORIZONTAL DATUM: NAD 83/11
BEARING BETWEEN WSDOT "IS2903" AND WSDOT "GP29005-104" INVERSE: N 05° 25' 39" E, 778.44'
ORIGINATING BENCHMARK: VERTICAL DATUM: NAVD88
ELEVATION 111.83' ON SET REBAR AND RED TRAVERSE CAP AT POWERTEK POINT #30 RELATIVE TO ON-GOING PROVIDED VERTICAL DATUM.

CONTACT DATA

CONTRACTING AGENCY: MARV PULST, P.E. - PUBLIC WORKS DIRECTOR
BRIAN DEMPSEY, P.E. - ASST. CITY ENGINEER
CITY OF BURLINGTON
833 SOUTH SPRUCE STREET
BURLINGTON, WA 98233
360-757-9715
PROJECT ENGINEER: JOHN R. TUTTLE, P.E. - PRINCIPAL
TUTTLE ENGINEERING AND MANAGEMENT
275 WEST RIO VISTA AVENUE, SUITE 1
BURLINGTON, WA 98233
360-899-5953
SURVEYOR: JEREMY DISCH, P.L.S.
POWERTEK SURVEYING
5426 BARRETT ROAD, SUITE 104
FERNDALE, WA 98248
360-746-8801
EROSION CONTROL SUPERVISOR: TO BE DETERMINED BY CONTRACTOR



CALL TWO BUSINESS
DAYS BEFORE YOU DIG

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:
CITY OF Burlington
SKAGIT COUNTY, WASHINGTON INCORPORATED 1899
833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
43718
275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
1 | (360) 899-5953 | W: www.tuttle-team.com



IN ASSOCIATION WITH **LOCHNER**
DESCRIPTION: 100% DESIGN
ISSUE DATE: JANUARY 9, 2023
DESIGNED BY: MATT RANDALL, P.E.
CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
TITLE SHEET
TS

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-01-SHEET-TS.dwg - TITLE - Bull, Goge - 1/25/2023 5:28 PM

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

D:\East-West Connector\7_Engineering\CADD\Plans - MOVED TO I DRIVE 01.09.2023\16615-02-SHEET-LEGEND.dwg - LAA - Tuttle, John - 1/17/2023 9:54 AM

LEGEND AND ABBREVIATIONS

EXISTING SITE FEATURES		NEW SITE FEATURES	
	EXISTING MONUMENT		STREET SIGN
	EXISTING CATCH BASIN		INLET PROTECTION
	EXISTING STORM MANHOLE		TYPE 1 CATCH BASIN
	EXISTING SANITARY MANHOLE		TYPE 2 CATCH BASIN
	EXISTING FIRE HYDRANT		FIRE HYDRANT
	EXISTING WATER VALVE		WATER VALVE
	EXISTING UTILITY POLE		UTILITY POLE
	EXISTING WATER METER		UTILITY GUY ANCHOR
	EXISTING STREET SIGN		MAILBOX
	EXISTING UTILITY POLE		SEWER MANHOLE
	EXISTING UTILITY GUY ANCHOR		PIPE PLUG
	EXISTING TREE (CONIFEROUS)		WATER METER
	EXISTING TREE (DECIDUOUS)		WATER PIPE FITTINGS
	EXISTING TREE DIAMETER		FLUSHING ASSEMBLY
	EXISTING JUNCTION BOX		CONCRETE PAVEMENT
	EXISTING TELECOMMUNICATIONS BOX		ASPHALT PAVEMENT
	EXISTING TEST PIT		LANDSCAPING/GRASS
	EXISTING LIGHT POLE		TRUNCATED DOMES
	EXISTING TOE OF SLOPE		MONUMENT
	EXISTING TOP OF SLOPE		CONTOUR
	EXISTING RIGHT-OF-WAY LINE		STORM DRAIN MAIN LINE
	EXISTING EDGE OF PAVEMENT		STORM SERVICE LINE
	EXISTING CURB AND GUTTER		WATER MAIN LINE
	EXISTING STORM DRAIN LINE		WATER SERVICE LINE
	EXISTING WATER MAIN LINE		SANITARY SEWER MAIN LINE
	EXISTING WATER SERVICE LINE		SANITARY SEWER SERVICE LINE
	EXISTING OVERHEAD POWER/CABLE/PHONE		TOE OF SLOPE
	EXISTING SANITARY SEWER LINE		TOP OF SLOPE
	EXISTING SEWER SERVICE LINE		SAWCUT LINE
	EXISTING GAS LINE		CURTAIN DRAIN
	EXISTING GRAVEL		PRIMARY POWER
	EXISTING CONCRETE		GAS
			COMMUNICATIONS
			SECONDARY POWER
			CONCRETE CURBING
			PONDING ELEVATION
			EX. GROUND ELEVATION ALONG ALIGNMENT
			FIN. GRADE ELEVATION ALONG ALIGNMENT

EXISTING AND NEW ABBREVIATIONS			
ASPH	ASPHALT	LP	LIGHT POLE
AVA	AIR VALVE ASSEMBLY	LT	LEFT
BMP	BEST MANAGEMENT PRACTICE	LVC	LENGTH OF VERTICAL CURVE
BO	BLOWOFF	MB	MAILBOX
BTM	BOTTOM	MIN	MINIMUM
BVCE	BEGIN VERTICAL CURVE ELEVATION	MOD	MODULAR
BVCS	BEGIN VERTICAL CURVE STATION	NAD	NORTH AMERICAN DATUM
CB	CATCH BASIN	NAVD	NORTH AMERICAN VERTICAL DATUM
CD	CURTAIN DRAIN	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CL/C-L	CENTERLINE	NO	NUMBER
CO	CLEANOUT	NTS	NOT TO SCALE
COMB	COMBINATION	OC	ON CENTER
CONC	CONCRETE	PERF	PERFORATED
CPP	CORRUGATED POLYETHYLENE PIPE	PL	PROPERTY LINE
D	DECIDUOUS	PP	POWER POLE
DI	DUCTILE IRON PIPE	PROP	NEW/PROPOSED
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DR	DRIVE	PVC	POLYVINYL CHLORIDE
EA	EACH	PVMT	PAVEMENT
EL/ELEV	ELEVATION	PVI	POINT OF VERTICAL INTERSECTION
EST	ESTIMATE	R	RADIUS
ESMT	EASEMENT	RET	RETAINING
EVCE	END VERTICAL CURVE ELEVATION	R.O.W.	RIGHT-OF-WAY
EVCS	END VERTICAL CURVE STATION	RT	RIGHT
EX	EXISTING	SD	STORM DRAIN
FA	FLUSHING ASSEMBLY	SDMH	STORM DRAIN MANHOLE
FD	FOOTING DRAIN	SF	SQUARE FEET
FF	FINISHED FLOOR	SS	SANITARY SEWER
FH	FIRE HYDRANT	SSMH	SANITARY SEWER MANHOLE
FV	FIBER OPTIC VAULT	STA	STATION
G	GAS	SW	STORMWATER
GA	GUY ANCHOR	SWM	STORMWATER MANAGEMENT
GRAV	GRAVEL	TR	TELECOMMUNICATIONS RISER
GV	GATE VALVE	TP	TEST PIT
HMA	HOT MIX ASPHALT	TYP	TYPICAL
HORIZ	HORIZONTAL	UP	UTILITY POLE
IE	INVERT ELEVATION	VERT	VERTICAL
LANDSC	LANDSCAPING	WM	WATER METER
LF	LINEAR FEET	WV	WATER VALVE

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

CITY OF Burlington
SKAGIT COUNTY, WASHINGTON INCORPORATED 1869

833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | O: (360) 899-5953 | W: www.tuttle-team.com



IN ASSOCIATION WITH

LOCHNER

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: JOHN R. TUTTLE, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

LEGEND AND ABBREVIATIONS

LAA

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

D:\East-West Connector\Z_Engineering\CADD\Plans - MOVED TO I DRIVE 01.09.2023\16615-03-SHEET-ACR.dwg - AL1 - Tuttle, John - 1/17/2023 10:32 AM

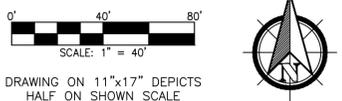
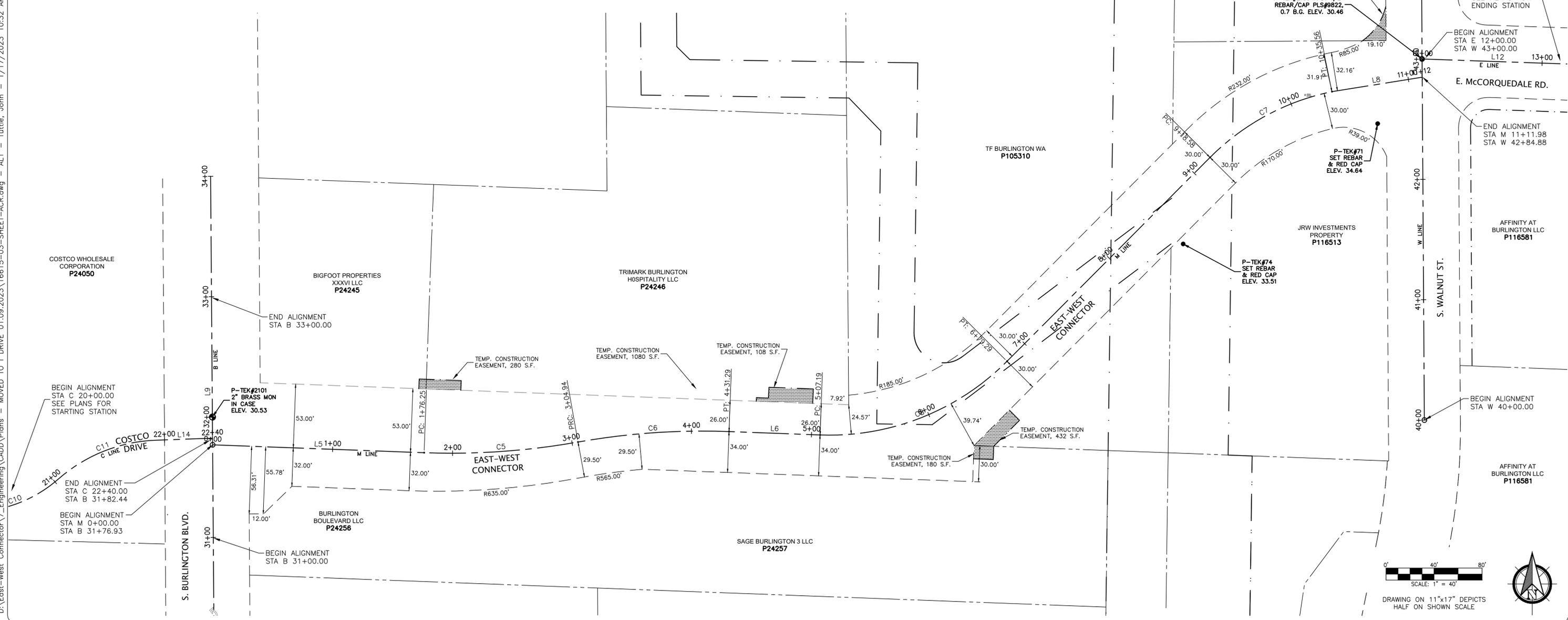
M-LINE					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L5	176.25	176.25	S87° 52' 10.14"E	N = 533835.12, E = 1275905.48	N = 533835.12, E = 1275905.48
C5	605.50	128.69	N86° 02' 30.95"E	N = 533828.57, E = 1276081.60	N = 533828.57, E = 1276081.60
C6	594.50	126.35	N86° 02' 30.95"E	N = 533837.43, E = 1276209.74	N = 533837.43, E = 1276209.74
L6		75.90	S87° 52' 10.14"E	N = 533846.14, E = 1276335.55	N = 533846.14, E = 1276335.55
C8	209.00	172.10	N68° 32' 27.86"E	N = 533843.32, E = 1276411.40	N = 533843.32, E = 1276411.40
L7		239.29	N44° 57' 05.86"E	N = 533904.51, E = 1276567.08	N = 533904.51, E = 1276567.08
C7	200.00	116.98	N61° 42' 27.43"E	N = 534073.86, E = 1276736.15	N = 534073.86, E = 1276736.15
L8		76.11	N80° 54' 47.42"E	N = 534128.52, E = 1276837.69	N = 534128.52, E = 1276837.69

C-LINE					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L13		21.99	S88° 38' 09.86"E	N = 533780.04, E = 1275680.01	N = 533780.04, E = 1275680.01
C10	110.00	81.80	N70° 03' 34.30"E	N = 533779.52, E = 1275701.99	N = 533779.52, E = 1275701.99
C11	130.00	88.97	N68° 21' 38.98"E	N = 533806.78, E = 1275777.13	N = 533806.78, E = 1275777.13
L14		47.24	N87° 57' 59.48"E	N = 533838.95, E = 1275858.23	N = 533838.95, E = 1275858.23

E-LINE					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L12		126.00	S88° 01' 56.14"E	N = 534155.67, E = 1276912.75	N = 534155.67, E = 1276912.75
C9	500.00	74.00	S83° 47' 32.54"E	N = 534151.34, E = 1277038.68	N = 534151.34, E = 1277038.68

W-LINE					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L11		720.00	N0° 21' 41.14"W	N = 533855.67, E = 1276914.64	N = 533855.67, E = 1276914.64

B-LINE					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L9		400.00	N0° 25' 32.14"W	N = 533658.19, E = 1275906.79	N = 533658.19, E = 1275906.79



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

CITY OF BURLINGTON
SKAGIT COUNTY, WASHINGTON INCORPORATED 1892
833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
43718
275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
P.O. (360) 899-5953 | W: www.tuttle-team.com



IN ASSOCIATION WITH **LOCHNER**

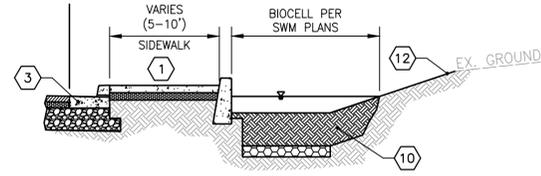
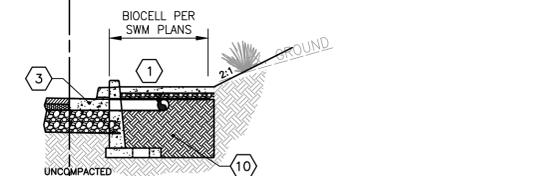
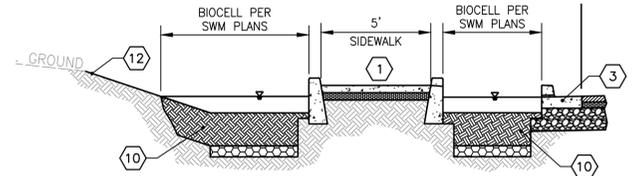
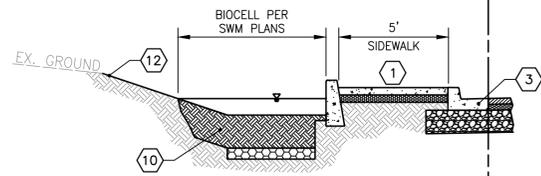
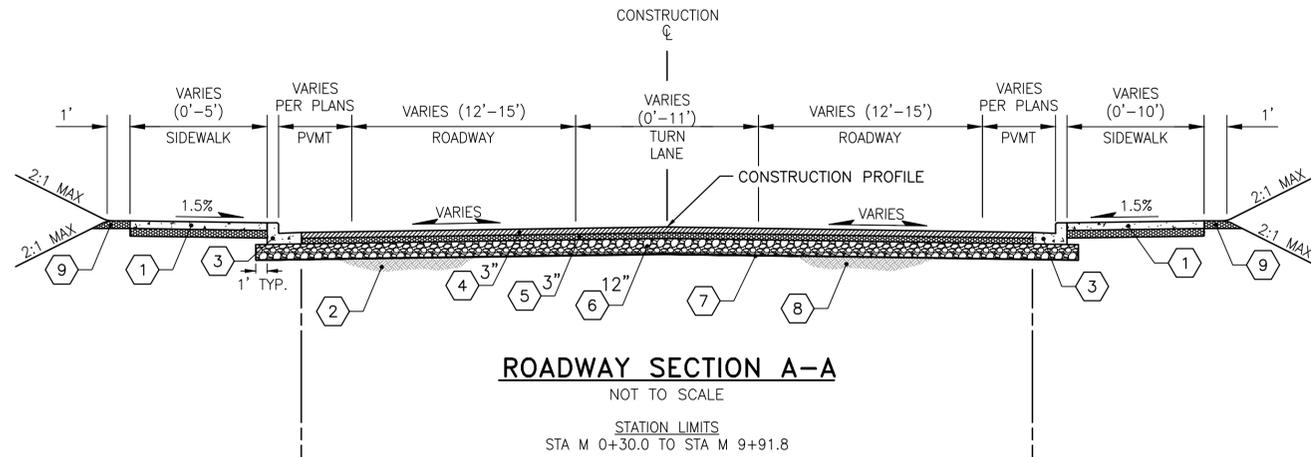
DESCRIPTION: 100% DESIGN
ISSUE DATE: JANUARY 9, 2023
DESIGNED BY: JOHN R. TUTTLE, P.E.
CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

ALIGNMENT, CONTROL, AND RIGHT-OF-WAY PLAN

ACR

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\04-SHEET-RS BEST.dwg -- RS1 -- Bull. Gage -- 1/25/2023 4:17 PM



CONSTRUCTION NOTES

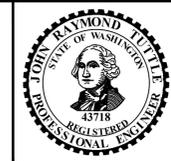
1. 4" CEMENT CONC. SIDEWALK PER STANDARD PLAN F-30.10-04 OVER 4" CRUSHED SURFACING BASE COURSE OR 6" CEMENT CONC. DRIVEWAY PER STANDARD PLAN F-80.10-04 OVER 6" CRUSHED SURFACING BASE COURSE.
2. UNSUITABLE EXCAVATION INCL. HAUL, AS REQUIRED.
3. CEMENT CONC. TRAFFIC CURB AND GUTTER.
4. HOT MIX ASPHALT (TWO LIFTS) COMPACTED TO 92% MAX. DENSITY.
5. CRUSHED SURFACING BASE COURSE COMPACTED TO 95% DRY DENSITY. DEPTH VARIES TO CONSTRUCT SECTIONS.
6. GRAVEL BORROW COMPACTED TO 95% DRY DENSITY. DEPTH VARIES TO CONSTRUCT SECTIONS.
7. WOVEN GEOTEXTILE FABRIC FOR SOIL STABILIZATION.
8. SUBGRADE PREPARED UNDER DIRECTION OF GEOTECHNICAL ENGINEER AS VERIFIED BY GEOTECHNICAL TESTING.
9. CRUSHED SURFACING BASE COURSE SHOULDER AND ROUNDED GRADING.
10. WALL-LINED BIORETENTION SYSTEM PER EDGE TREATMENT SECTION ON SHEET RS1 AND PER DETAIL SHEETS.
11. NOTE NOT USED ON THIS SHEET.
12. SEE LANDSCAPE PLANS.
13. NOTE NOT USED ON THIS SHEET.
14. NOTE NOT USED ON THIS SHEET.
15. NOTE NOT USED ON THIS SHEET.
16. NOTE NOT USED ON THIS SHEET.
17. NOTE NOT USED ON THIS SHEET.

1. 4" CEMENT CONC. SIDEWALK PER STANDARD PLAN F-30.10-04 OVER 4" CRUSHED SURFACING BASE COURSE OR 6" CEMENT CONC. DRIVEWAY PER STANDARD PLAN F-80.10-04 OVER 6" CRUSHED SURFACING BASE COURSE.
2. UNSUITABLE EXCAVATION INCL. HAUL, AS REQUIRED.
3. CEMENT CONC. TRAFFIC CURB AND GUTTER.
4. HOT MIX ASPHALT (TWO LIFTS) COMPACTED TO 92% MAX. DENSITY.
5. CRUSHED SURFACING BASE COURSE COMPACTED TO 95% DRY DENSITY. DEPTH VARIES TO CONSTRUCT SECTIONS.
6. GRAVEL BORROW COMPACTED TO 95% DRY DENSITY. DEPTH VARIES TO CONSTRUCT SECTIONS.
7. WOVEN GEOTEXTILE FABRIC FOR SOIL STABILIZATION.
8. SUBGRADE PREPARED UNDER DIRECTION OF GEOTECHNICAL ENGINEER AS VERIFIED BY GEOTECHNICAL TESTING.
9. CRUSHED SURFACING BASE COURSE SHOULDER AND ROUNDED GRADING.
10. WALL-LINED BIORETENTION SYSTEM PER EDGE TREATMENT SECTION ON SHEET RS1 AND PER DETAIL SHEETS.
11. ROUNDABOUT CEMENT CONCRETE CURB AND GUTTER (CURB 2) PER STANDARD PLAN F-10.18-03.
12. SEE LANDSCAPE PLANS.
13. ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER (CURB 1) PER STANDARD PLAN F-10.18-03.
14. PIGMENTED AND TEXTURED CEMENT CONCRETE TRUCK APRON.
15. ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB (CURB 3) PER STANDARD PLAN F-10.18-03.
16. 2" PLANING AND HMA INLAY OR OVERLAY PLACED TO A DEPTH REQUIRED TO SET FINISHED ROADWAY SURFACE GRADE.
17. PIGMENTED AND TEXTURED CEMENT CONCRETE SPLITTER ISLAND SUPPORTED WITH 10/10 6"x6" WELDED WIRE MESH.

GENERAL NOTES

1. SEE THE ROAD AND UTILITIES PLANS AND THE ROUNDABOUT PLANS FOR PAVEMENT DIMENSIONS AT KEY POINTS ALONG THE ROADWAY CORRIDOR.
2. EXPANSION JOINTS SHALL BE PLACED PER THE WSDOT STANDARD SPECIFICATIONS OR AS SPECIFIED IN THESE PLANS.

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: JOHN R. TUTTLE, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

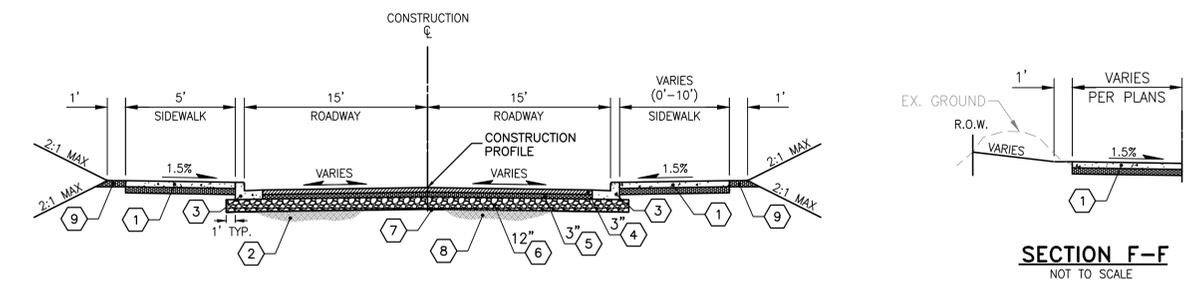
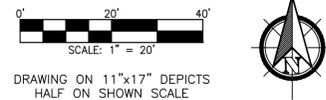
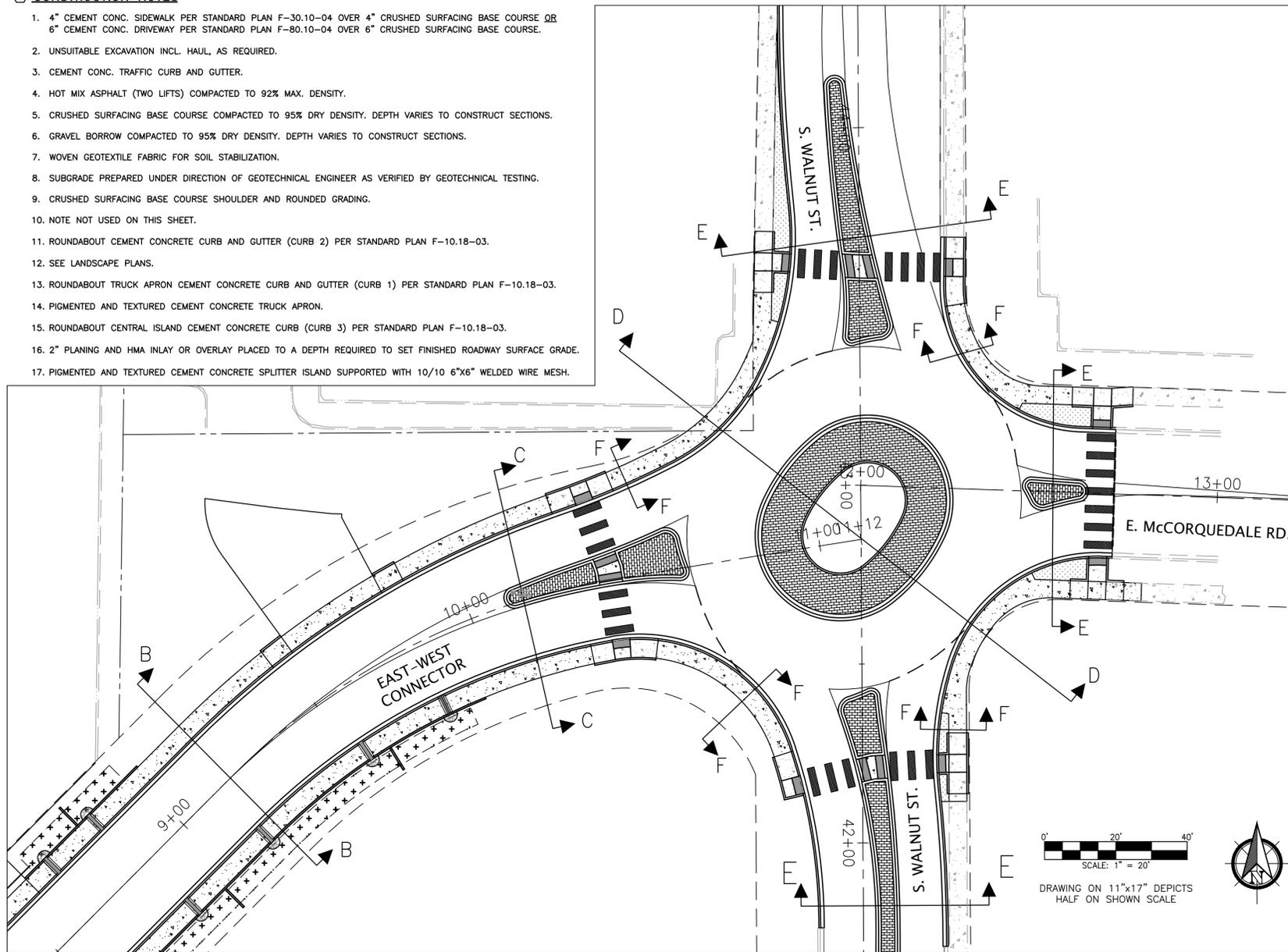
ROADWAY SECTIONS

RS1

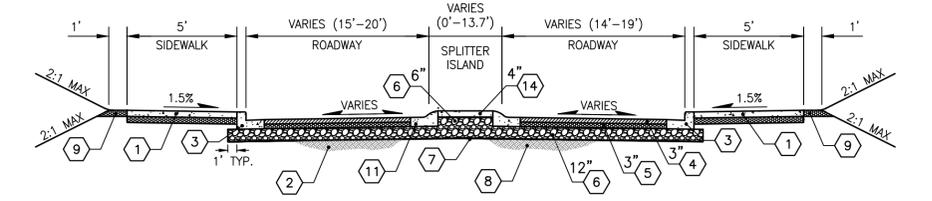
THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THESE RESTRICTIONS.

CONSTRUCTION NOTES

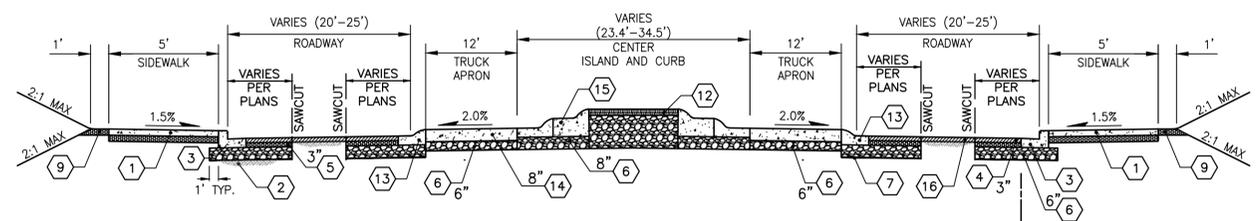
1. 4" CEMENT CONC. SIDEWALK PER STANDARD PLAN F-30.10-04 OVER 4" CRUSHED SURFACING BASE COURSE OR 6" CEMENT CONC. DRIVEWAY PER STANDARD PLAN F-80.10-04 OVER 6" CRUSHED SURFACING BASE COURSE.
2. UNSUITABLE EXCAVATION INCL. HAUL, AS REQUIRED.
3. CEMENT CONC. TRAFFIC CURB AND GUTTER.
4. HOT MIX ASPHALT (TWO LIFTS) COMPACTED TO 92% MAX. DENSITY.
5. CRUSHED SURFACING BASE COURSE COMPACTED TO 95% DRY DENSITY. DEPTH VARIES TO CONSTRUCT SECTIONS.
6. GRAVEL BORROW COMPACTED TO 95% DRY DENSITY. DEPTH VARIES TO CONSTRUCT SECTIONS.
7. WOVEN GEOTEXTILE FABRIC FOR SOIL STABILIZATION.
8. SUBGRADE PREPARED UNDER DIRECTION OF GEOTECHNICAL ENGINEER AS VERIFIED BY GEOTECHNICAL TESTING.
9. CRUSHED SURFACING BASE COURSE SHOULDER AND ROUNDED GRADING.
10. NOTE NOT USED ON THIS SHEET.
11. ROUNDABOUT CEMENT CONCRETE CURB AND GUTTER (CURB 2) PER STANDARD PLAN F-10.18-03.
12. SEE LANDSCAPE PLANS.
13. ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER (CURB 1) PER STANDARD PLAN F-10.18-03.
14. PIGMENTED AND TEXTURED CEMENT CONCRETE TRUCK APRON.
15. ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB (CURB 3) PER STANDARD PLAN F-10.18-03.
16. 2" PLANING AND HMA INLAY OR OVERLAY PLACED TO A DEPTH REQUIRED TO SET FINISHED ROADWAY SURFACE GRADE.
17. PIGMENTED AND TEXTURED CEMENT CONCRETE SPLITTER ISLAND SUPPORTED WITH 10/10 6"x6" WELDED WIRE MESH.



ROADWAY SECTION B-B
NOT TO SCALE
STATION LIMITS
STA M 9+91.8 TO STA M 10+10.5

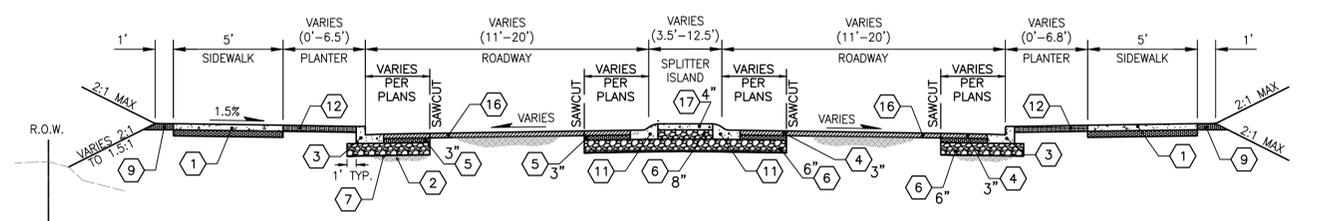


ROADWAY SECTION C-C
NOT TO SCALE
STATION LIMITS
STA M 10+10.5 TO STA M 10+62.5



ROADWAY SECTION D-D
NOT TO SCALE
STATION LIMITS
STA W 42+43 TO STA W 43+39

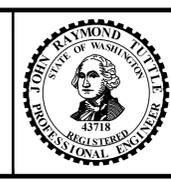
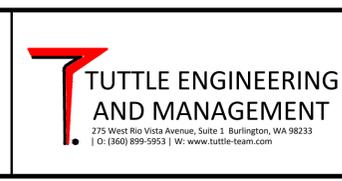
SEE EDGE TREATMENT 1 ON SHEET RS1



ROADWAY SECTION E-E
NOT TO SCALE
STATION LIMITS
STA W 41+82.4 TO STA W 42+42.3 STA W 43+39.6 TO STA W 44+14.7 STA E 12+45.0 TO STA E 12+63.8

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-04-SHEET-RS_BEST.dwg - RS2 - Bull, Gage - 1/25/2023 4:18 PM

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH
LOCHNER
DESCRIPTION: 100% DESIGN
ISSUE DATE: JANUARY 9, 2023
DESIGNED BY: JOHN R. TUTTLE, P.E.
CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

ROADWAY SECTIONS

RS2

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-05-SHEET-EC.dwg - EC1 - Bull, Coge - 1/23/2023 3:05 PM



EXISTING SANITARY STRUCTURES

SSMH#2225 RIM=30.72 E IE=20.47, 8"PVC S IE=20.19, 8"PVC W IE=19.89, 12"PVC	SSCO#5523 RIM=32.20 ELBOW IE=29.61, 6"PVC
SSMH#5521 RIM=31.37 N IE=25.93, 8"PVC W IE=20.94, 8"PVC	SSCO#5719 RIM=32.57 ELBOW IE=30.23, 6"PVC

EXISTING DRAINAGE STRUCTURES

SDCB#2224 RIM=29.73 W IE=27.41, 8"CMP E IE=27.48, 8"CONC	SDCB#5711 RIM=31.94 W IE=29.47, 8"PVC E IE=29.44, 8"PVC N IE=29.54, 8"PVC
SDCB#5710 RIM=31.92 W IE=29.74, 8"PVC	SDCO#5720 RIM=32.97 ELBOW IE=29.97, 6"PVC

LEGEND

- WATTLE
- INLET PROTECTION
- HIGH VISIBILITY FENCE
- PLANING AREA
- HIGH VISIBILITY SILT FENCE

GENERAL NOTES

- NO AREAS OUTSIDE PUBLIC RIGHT-OF-WAY AND CITY OF BURLINGTON OWNERSHIP HAVE BEEN RETAINED AS POTENTIAL CONSTRUCTION STAGING AREAS. THE CONTRACTOR SHALL COORDINATE ON HIS OR HER OWN TO IDENTIFY AREAS TO STAGE EQUIPMENT AND MATERIALS. IF AN AREA IS RETAINED, THEN THE CONTRACTOR SHALL INSTALL ALL NECESSARY BEST MANAGEMENT PRACTICES AROUND STAGING AREAS TO PROTECT DOWNSLOPE PROPERTIES AND WATER BODIES.
- LINEWORK FOR EXISTING UTILITIES REPRESENTS A BEST EFFORT TO SHOW THE EXISTING LOCATION OF THESE UTILITIES AT THE TIME OF SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATIONS PRIOR TO CONSTRUCTION ACTIVITIES IN THESE LOCATIONS.
- CARE SHALL BE TAKEN TO PROTECT EXISTING UTILITY LINES AND STRUCTURES UNTIL FINAL RELOCATIONS AND ADJUSTMENTS HAVE BEEN MADE. SEE THE ROAD AND UTILITIES PLANS FOR INFORMATION ON UTILITIES TO BE ADJUSTED DURING CONSTRUCTION.
- CARE SHALL BE TAKEN DURING INSTALLATION OF BEST MANAGEMENT PRACTICES NEAR EXISTING UTILITIES.
- AS APPLICABLE, POSITION BEST MANAGEMENT PRACTICES WITHIN THE EXISTING RIGHT-OF-WAY SO AS NOT TO DISTURB PRIVATE PROPERTY.
- CONTOURS ARE SHOWN AT A ONE-FOOT INTERVAL.

CONSTRUCTION NOTES

- REMOVE EXISTING CONCRETE SIDEWALK. RETAIN FULL PEDESTRIAN USE UNTIL REMOVED SIDEWALK IS REPLACED AND MADE OPERABLE BY NEW SIDEWALK IMPROVEMENTS. EXISTING SIDEWALK JOINTS SHALL BE USED TO DETERMINE LIMITS OF REMOVAL.
- REMOVE EXISTING CONCRETE CURB AND GUTTER IN PREPARATION FOR NEW ROADWAY IMPROVEMENTS.
- SAWCUT AND REMOVE EXISTING ASPHALT OR CONCRETE PAVEMENT AS SHOWN IN PREPARATION FOR ROADWAY REHABILITATION ACTIVITIES. REMOVAL TIMELINE DEPENDANT UPON PHASED PEDESTRIAN AND TRAFFIC CONTROL AND CONSTRUCTION ACTIVITIES. CLEAN AND TACK ALL ASPHALT AND CONCRETE EDGES PRIOR TO PAVING. SEAL ALL JOINTS AFTER PAVING WITH PG 58H-22 BINDER.
- NOTE NOT USED ON THIS SHEET.
- DEMOLISH EXISTING ASPHALT OR CONCRETE DRIVEWAY TO LIMITS SHOWN IN PREPARATION FOR NEW SIDEWALK/DRIVEWAY IMPROVEMENTS.
- NOTE NOT USED ON THIS SHEET.
- TO THE LARGEST EXTENT, PROVIDE PROTECTION OF EXISTING TREES, BUSHES, SHRUBS, AND ROOT SYSTEMS THAT WILL REMAIN AFTER CONSTRUCTION.
- PLANE EXISTING ASPHALT PAVEMENT PER DETAIL 77/D1. CLEAN AND TACK ALL ASPHALT AND CONCRETE EDGES PRIOR TO PAVING. SEAL ALL JOINTS WITH PG 58H-22 BINDER.
- NOTE NOT USED ON THIS SHEET.
- NOTE NOT USED ON THIS SHEET.
- REMOVE EXISTING PAINT OR PLASTIC PAVEMENT MARKING OR SYMBOL.
- AREA TO BE CLEARED AND GRUBBED.
- NOTE NOT USED ON THIS SHEET.
- REMOVE EXISTING CHAIN LINK FENCING OR CHAIN LINK GATE.
- REMOVE EXISTING TREE AND NATIVE VEGETATION IN PREPARATION FOR PROJECT IMPROVEMENTS, THEN REPLANT PER THE LANDSCAPE PLANS.
- NOTE NOT USED ON THIS SHEET.

EROSION CONTROL NOTES

- A. INSTALL A CATCH BASIN INSERT IN EACH EXISTING CATCH BASIN AND IN EACH NEW CATCH BASIN AFTER IT HAS BEEN INSTALLED PER WSDOT STANDARD PLAN I-40.20.00.
- B. NOTE NOT USED ON THIS SHEET.
- C. NOTE NOT USED ON THIS SHEET.
- D. INSTALL HIGH VISIBILITY FENCE TO DELINEATE CONSTRUCTION AREAS FROM VEHICULAR AND PEDESTRIAN ACTIVITIES PER WSDOT STANDARD PLAN I-10.10-01.
- E. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN I-80.10-02.
- F. CONSTRUCT HIGH VISIBILITY SILT FENCE PER WSDOT STANDARD PLAN I-30.17-01.



6		
5		
4		
3		
2		
1		
REVISION	DATE	DESCRIPTION

PREPARED FOR:

 SKAGIT COUNTY, WASHINGTON INCORPORATED 1892
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | O: (360) 899-5953 | W: www.tuttle-team.com



IN ASSOCIATION WITH
LOCHNER
 DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: MATT RANDALL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
 EXISTING CONDITIONS, EROSION CONTROL,
 AND SITE PREPARATION PLAN

EC1

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-05-SHEET-EC.dwg - EC2 - Bull, Coge - 1/23/2023 3:09 PM

CONSTRUCTION NOTES

1. NOTE NOT USED ON THIS SHEET.
2. NOTE NOT USED ON THIS SHEET.
3. NOTE NOT USED ON THIS SHEET.
4. REMOVE EXISTING TREE AND NATIVE VEGETATION IN PREPARATION FOR PROJECT IMPROVEMENTS.
5. NOTE NOT USED ON THIS SHEET.
6. NOTE NOT USED ON THIS SHEET.
7. NOTE NOT USED ON THIS SHEET.
8. NOTE NOT USED ON THIS SHEET.
9. NOTE NOT USED ON THIS SHEET.
10. NOTE NOT USED ON THIS SHEET.
11. NOTE NOT USED ON THIS SHEET.
12. NOTE NOT USED ON THIS SHEET.
13. NOTE NOT USED ON THIS SHEET.
14. NOTE NOT USED ON THIS SHEET.
15. AREA TO BE CLEARED AND GRUBBED.
16. NOTE NOT USED ON THIS SHEET.
17. NOTE NOT USED ON THIS SHEET.
18. REMOVE EXISTING TREE AND NATIVE VEGETATION IN PREPARATION FOR PROJECT IMPROVEMENTS, THEN REPLANT PER THE LANDSCAPE PLANS.
19. NOTE NOT USED ON THIS SHEET.

EROSION CONTROL NOTES

- A. INSTALL A CATCH BASIN INSERT IN EACH EXISTING CATCH BASIN AND IN EACH NEW CATCH BASIN AFTER IT HAS BEEN INSTALLED PER WSDOT STANDARD PLAN I-40.20.00.
- B. NOTE NOT USED ON THIS SHEET.
- C. NOTE NOT USED ON THIS SHEET.
- D. INSTALL HIGH VISIBILITY FENCE TO DELINEATE CONSTRUCTION AREAS FROM VEHICULAR AND PEDESTRIAN ACTIVITIES PER WSDOT STANDARD PLAN I-10.10-01.
- E. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN I-80.10-02.
- F. CONSTRUCT HIGH VISIBILITY SILT FENCE PER WSDOT STANDARD PLAN I-30.17-01.



EXISTING DRAINAGE STRUCTURES	
SDCB#5698	SDCB#5709
RIM=32.41	RIM=33.70
E IE=29.84, 8"PVC	E IE=30.55, 8"PVC
W IE=29.81, 8"PVC	
N IE=29.82, 8"PVC	

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



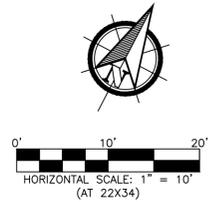
IN ASSOCIATION WITH	LOCHNER
DESCRIPTION:	100% DESIGN
ISSUE DATE:	JANUARY 9, 2023
DESIGNED BY:	MATT RANDALL, P.E.
CHECKED BY:	JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
 EXISTING CONDITIONS, EROSION CONTROL,
 AND SITE PREPARATION PLAN

EC2

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-05-SHEET-EC.dwg - EC3 - Bull, Gage - 1/23/2023 3:12 PM



EROSION CONTROL NOTES

- A. INSTALL A CATCH BASIN INSERT IN EACH EXISTING CATCH BASIN AND IN EACH NEW CATCH BASIN AFTER IT HAS BEEN INSTALLED PER WSDOT STANDARD PLAN I-40.20.00.
- B. NOTE NOT USED ON THIS SHEET.
- C. INSTALL WATTLES ON IMPERVIOUS SURFACES TO REDIRECT UP-SURFACE RUNOFF AWAY FROM WORK AREAS. SOCKS INSTALLED ON THESE SURFACES WILL BE SECURED WITH SAND BAGS. RESET AS PHASED CONSTRUCTION ACTIVITIES OR PRESERVATION OF ACCESS MANDATE. SEE WSDOT STANDARD PLAN I-30.40-02 FOR NOTES ON SOCK INSTALLATION.
- D. INSTALL HIGH VISIBILITY FENCE TO DELINEATE CONSTRUCTION AREAS FROM VEHICULAR AND PEDESTRIAN ACTIVITIES PER WSDOT STANDARD PLAN I-10.10-01.
- E. NOTE NOT USED ON THIS SHEET.
- F. CONSTRUCT HIGH VISIBILITY SILT FENCE PER WSDOT STANDARD PLAN I-30.17-01.

CONSTRUCTION NOTES

- 1. NOTE NOT USED ON THIS SHEET.
- 2. REMOVE EXISTING CONCRETE CURB AND GUTTER IN PREPARATION FOR NEW ROADWAY IMPROVEMENTS.
- 3. SAWCUT AND REMOVE EXISTING ASPHALT OR CONCRETE PAVEMENT AS SHOWN IN PREPARATION FOR ROADWAY REHABILITATION ACTIVITIES. REMOVAL TIMELINE DEPENDANT UPON PHASED PEDESTRIAN AND TRAFFIC CONTROL AND CONSTRUCTION ACTIVITIES. CLEAN AND TACK ALL ASPHALT AND CONCRETE EDGES PRIOR TO PAVING. SEAL ALL JOINTS AFTER PAVING WITH PG 58H-22 BINDER.
- 4. REMOVE EXISTING TREE AND NATIVE VEGETATION IN PREPARATION FOR PROJECT IMPROVEMENTS.
- 5. NOTE NOT USED ON THIS SHEET.
- 6. NOTE NOT USED ON THIS SHEET.
- 7. NOTE NOT USED ON THIS SHEET.
- 8. NOTE NOT USED ON THIS SHEET.
- 9. REMOVE EXISTING TRAIL SURFACING TO LIMITS SHOWN AS PART OF ROADWAY EXCAVATION.
- 10. NOTE NOT USED ON THIS SHEET.
- 11. NOTE NOT USED ON THIS SHEET.
- 12. NOTE NOT USED ON THIS SHEET.
- 13. NOTE NOT USED ON THIS SHEET.
- 14. NOTE NOT USED ON THIS SHEET.
- 15. AREA TO BE CLEARED AND GRUBBED.
- 16. NOTE NOT USED ON THIS SHEET.
- 17. NOTE NOT USED ON THIS SHEET.
- 18. NOTE NOT USED ON THIS SHEET.
- 19. EXISTING UTILITY TO BE RELOCATED OR EXTENDED BY SKAGIT P.U.D. NO. 1 DURING CONSTRUCTION.

EXISTING DRAINAGE STRUCTURES

SDCB#5283
RIM=28.65
FILL WITH WATER/DEBRIS

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
ISSUE DATE: JANUARY 9, 2023
DESIGNED BY: MATT RANDALL, P.E.
CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

EXISTING CONDITIONS, EROSION CONTROL, AND SITE PREPARATION PLAN

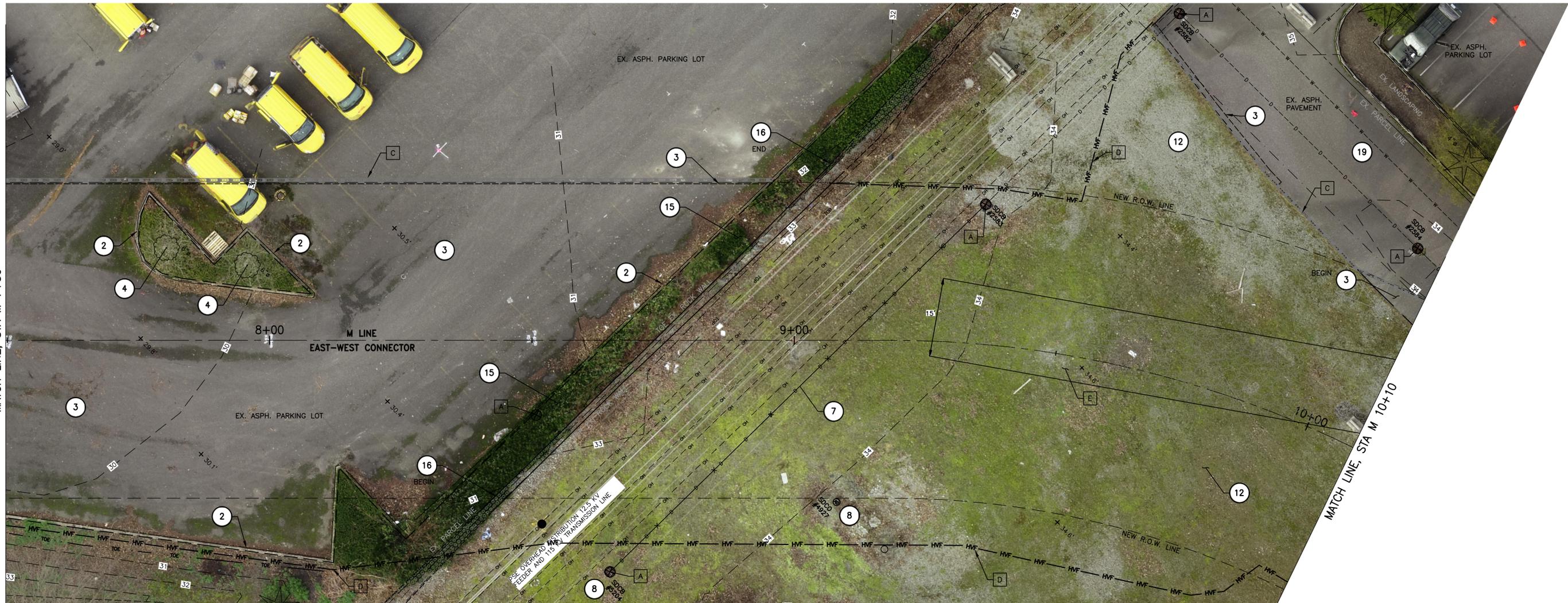
EC3

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task_Order_17_E-W_Connector\7_Engineering\CADD\Plans\16615-05-SHEET-EC.dwg - EC4 - Bull, Gage - 1/23/2023 3:15 PM

MATCH LINE, STA M 7+50

MATCH LINE, STA M 10+10



EXISTING DRAINAGE STRUCTURES

SDCB#2582 RIM=34.51 E IE=31.50, 12"PVC S IE=31.46, 12"PVC	SDCO#4927 TOP=35.95 6"PVC PLUGGED
SDCB#2583 RIM=33.89 N IE=31.59,12"PVC S IE=31.54,12"PVC	SDCB#5204 RIM=33.85 N IE=31.74, 12"PVC
SDCB#2584 RIM=33.72 E IE=31.33, 12"PVC W IE=31.35, 12"PVC	

EROSION CONTROL NOTES

- A. INSTALL A CATCH BASIN INSERT IN EACH EXISTING CATCH BASIN AND IN EACH NEW CATCH BASIN AFTER IT HAS BEEN INSTALLED PER WSDOT STANDARD PLAN I-40.20.00.
- B. NOTE NOT USED ON THIS SHEET.
- C. INSTALL WATTLES ON IMPERVIOUS SURFACES TO REDIRECT UP-SURFACE RUNOFF AWAY FROM WORK AREAS. SOCKS INSTALLED ON THESE SURFACES WILL BE SECURED WITH SAND BAGS. RESET AS PHASED CONSTRUCTION ACTIVITIES OR PRESERVATION OF ACCESS MANDATE. SEE WSDOT STANDARD PLAN I-30.40-02 FOR NOTES ON SOCK INSTALLATION.
- D. INSTALL HIGH VISIBILITY FENCE TO DELINEATE CONSTRUCTION AREAS FROM VEHICULAR AND PEDESTRIAN ACTIVITIES PER WSDOT STANDARD PLAN I-10.10-01.
- E. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN I-80.10-02.
- F. NOTE NOT USED ON THIS SHEET.

CONSTRUCTION NOTES

- 1. NOTE NOT USED ON THIS SHEET.
- 2. REMOVE EXISTING CONCRETE CURB AND GUTTER IN PREPARATION FOR NEW ROADWAY IMPROVEMENTS.
- 3. SAWCUT AND REMOVE EXISTING ASPHALT OR CONCRETE PAVEMENT AS SHOWN IN PREPARATION FOR ROADWAY REHABILITATION ACTIVITIES. REMOVAL TIMELINE DEPENDANT UPON PHASED PEDESTRIAN AND TRAFFIC CONTROL AND CONSTRUCTION ACTIVITIES. CLEAN AND TACK ALL ASPHALT AND CONCRETE EDGES PRIOR TO PAVING. SEAL ALL JOINTS AFTER PAVING WITH PG 58H-22 BINDER.
- 4. REMOVE EXISTING TREE AND NATIVE VEGETATION IN PREPARATION FOR PROJECT IMPROVEMENTS.
- 5. NOTE NOT USED ON THIS SHEET.
- 6. NOTE NOT USED ON THIS SHEET.
- 7. REMOVE ENGINEER-SPECIFIED LENGTH OF EXISTING STORM SEWER PIPING. SEE THE STORMWATER MANAGEMENT PLANS FOR NEW STORM SEWER DATA.
- 8. REMOVE EXISTING STORM STRUCTURE TO ACCOMMODATE NEW STORM SEWER. SEE THE STORMWATER MANAGEMENT PLANS FOR NEW STORM SEWER DATA.
- 9. NOTE NOT USED ON THIS SHEET.
- 10. NOTE NOT USED ON THIS SHEET.
- 11. NOTE NOT USED ON THIS SHEET.
- 12. REMOVE EXISTING GRAVEL SURFACING IN PREPARATION FOR PROJECT IMPROVEMENTS.
- 13. NOTE NOT USED ON THIS SHEET.
- 14. NOTE NOT USED ON THIS SHEET.
- 15. AREA TO BE CLEARED AND GRUBBED.
- 16. REMOVE EXISTING ROCK RETAINING WALL IN PREPARATION FOR ROAD IMPROVEMENTS.
- 17. NOTE NOT USED ON THIS SHEET.
- 18. NOTE NOT USED ON THIS SHEET.
- 19. EXISTING UTILITY TO BE RELOCATED OR EXTENDED BY SKAGIT P.U.D. NO. 1 DURING CONSTRUCTION.



6		
5		
4		
3		
2		
1		
REVISION	DATE	DESCRIPTION



IN ASSOCIATION WITH	LOCHNER
DESCRIPTION:	100% DESIGN
ISSUE DATE:	JANUARY 9, 2023
DESIGNED BY:	MATT RANDALL, P.E.
CHECKED BY:	JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

EXISTING CONDITIONS, EROSION CONTROL, AND SITE PREPARATION PLAN

EC4

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task_Order_17_E-W_Connector\7_Engineering\CADD\Plans\16615-05-SHEET-EC.dwg - EC5 - Bull, Coge - 1/23/2023 3:18 PM

EROSION CONTROL NOTES

- A. INSTALL A CATCH BASIN INSERT IN EACH EXISTING CATCH BASIN AND IN EACH NEW CATCH BASIN AFTER IT HAS BEEN INSTALLED PER WSDOT STANDARD PLAN I-40.20.00.
- B. NOTE NOT USED ON THIS SHEET.
- C. INSTALL WATTLES ON IMPERVIOUS SURFACES TO REDIRECT UP-SURFACE RUNOFF AWAY FROM WORK AREAS. SOCKS INSTALLED ON THESE SURFACES WILL BE SECURED WITH SAND BAGS. RESET AS PHASED CONSTRUCTION ACTIVITIES OR PRESERVATION OF ACCESS MANDATE. SEE WSDOT STANDARD PLAN I-30.40-02 FOR NOTES ON SOCK INSTALLATION.
- D. INSTALL HIGH VISIBILITY FENCE TO DELINEATE CONSTRUCTION AREAS FROM VEHICULAR AND PEDESTRIAN ACTIVITIES PER WSDOT STANDARD PLAN I-10.10-01.
- E. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN I-60.10-02.
- F. NOTE NOT USED ON THIS SHEET.

EXISTING SANITARY STRUCTURES

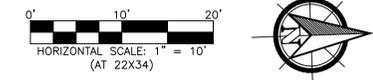
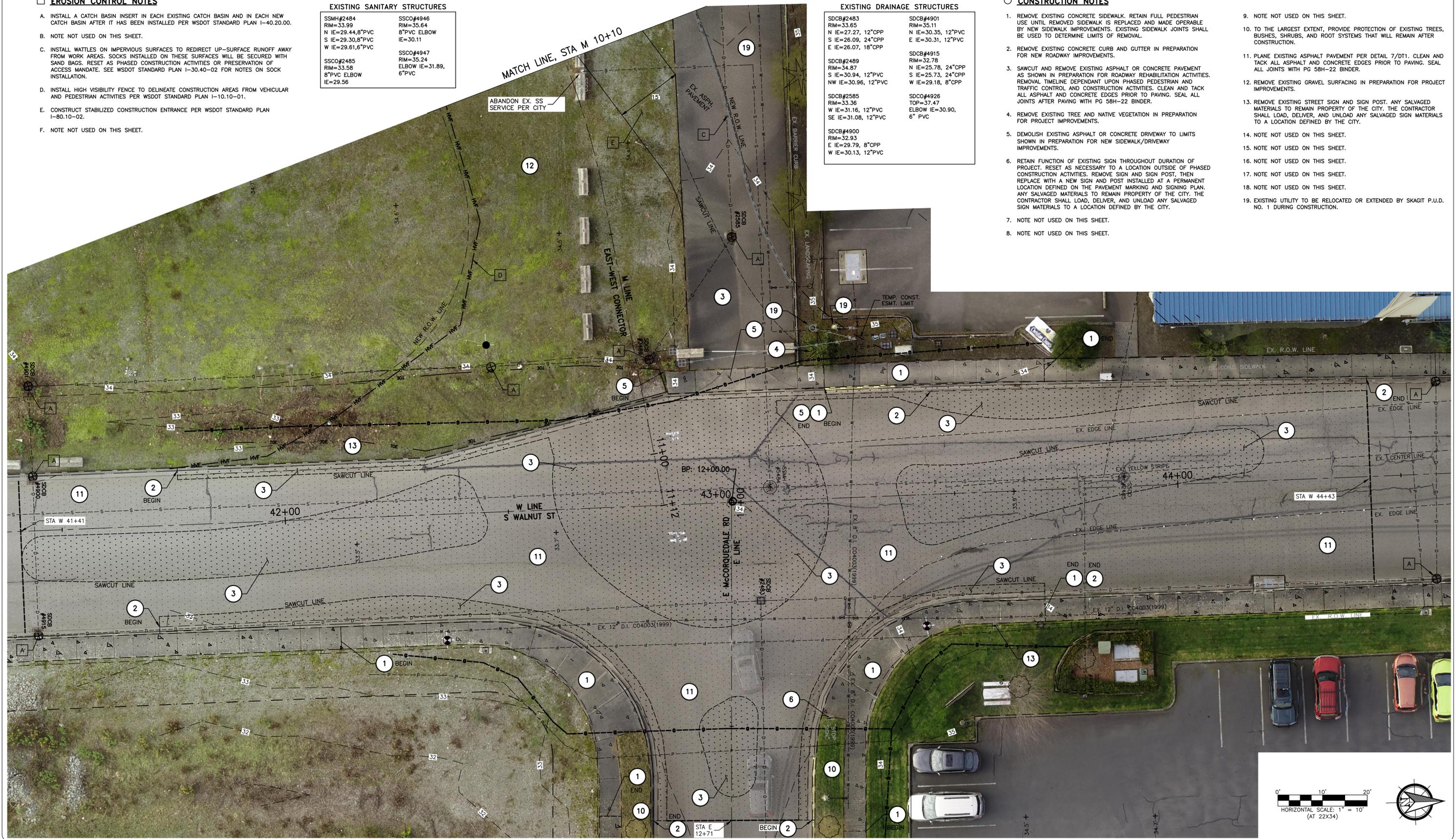
SSMH#2484 RIM=33.99 N IE=29.44, 8" PVC S IE=29.30, 8" PVC W IE=29.61, 8" PVC	SSCO#4946 RIM=35.64 8" PVC ELBOW IE=30.11
SSCO#2485 RIM=33.58 8" PVC ELBOW IE=29.56	SSCO#4947 RIM=35.24 ELBOW IE=31.89, 6" PVC

EXISTING DRAINAGE STRUCTURES

SDCB#2483 RIM=33.65 N IE=27.27, 12" CPP S IE=26.09, 24" CPP E IE=26.07, 18" CPP	SDCB#4901 RIM=35.11 N IE=30.35, 12" PVC E IE=30.31, 12" PVC
SDCB#2489 RIM=34.87 S IE=30.94, 12" PVC NW IE=30.96, 12" PVC	SDCB#4915 RIM=32.78 N IE=25.78, 24" CPP S IE=25.73, 24" CPP W IE=29.18, 8" CPP
SDCB#2585 RIM=33.36 W IE=31.16, 12" PVC SE IE=31.08, 12" PVC	SDCO#4926 TOP=37.47 ELBOW IE=30.90, 6" PVC
SDCB#4900 RIM=32.93 E IE=29.79, 8" CPP W IE=30.13, 12" PVC	

CONSTRUCTION NOTES

1. REMOVE EXISTING CONCRETE SIDEWALK. RETAIN FULL PEDESTRIAN USE UNTIL REMOVED SIDEWALK IS REPLACED AND MADE OPERABLE BY NEW SIDEWALK IMPROVEMENTS. EXISTING SIDEWALK JOINTS SHALL BE USED TO DETERMINE LIMITS OF REMOVAL.
2. REMOVE EXISTING CONCRETE CURB AND GUTTER IN PREPARATION FOR NEW ROADWAY IMPROVEMENTS.
3. SAWCUT AND REMOVE EXISTING ASPHALT OR CONCRETE PAVEMENT AS SHOWN IN PREPARATION FOR ROADWAY REHABILITATION ACTIVITIES. REMOVAL TIMELINE DEPENDANT UPON PHASED PEDESTRIAN AND TRAFFIC CONTROL AND CONSTRUCTION ACTIVITIES. CLEAN AND TACK ALL ASPHALT AND CONCRETE EDGES PRIOR TO PAVING. SEAL ALL JOINTS AFTER PAVING WITH PG 58H-22 BINDER.
4. REMOVE EXISTING TREE AND NATIVE VEGETATION IN PREPARATION FOR PROJECT IMPROVEMENTS.
5. DEMOLISH EXISTING ASPHALT OR CONCRETE DRIVEWAY TO LIMITS SHOWN IN PREPARATION FOR NEW SIDEWALK/DRIVEWAY IMPROVEMENTS.
6. RETAIN FUNCTION OF EXISTING SIGN THROUGHOUT DURATION OF PROJECT. RESET AS NECESSARY TO A LOCATION OUTSIDE OF PHASED CONSTRUCTION ACTIVITIES. REMOVE SIGN AND SIGN POST, THEN REPLACE WITH A NEW SIGN AND POST INSTALLED AT A PERMANENT LOCATION DEFINED ON THE PAVEMENT MARKING AND SIGNING PLAN. ANY SALVAGED MATERIALS TO REMAIN PROPERTY OF THE CITY. THE CONTRACTOR SHALL LOAD, DELIVER, AND UNLOAD ANY SALVAGED SIGN MATERIALS TO A LOCATION DEFINED BY THE CITY.
7. NOTE NOT USED ON THIS SHEET.
8. NOTE NOT USED ON THIS SHEET.
9. NOTE NOT USED ON THIS SHEET.
10. TO THE LARGEST EXTENT, PROVIDE PROTECTION OF EXISTING TREES, BUSHES, SHRUBS, AND ROOT SYSTEMS THAT WILL REMAIN AFTER CONSTRUCTION.
11. PLANE EXISTING ASPHALT PAVEMENT PER DETAIL 7/DT.1. CLEAN AND TACK ALL ASPHALT AND CONCRETE EDGES PRIOR TO PAVING. SEAL ALL JOINTS WITH PG 58H-22 BINDER.
12. REMOVE EXISTING GRAVEL SURFACING IN PREPARATION FOR PROJECT IMPROVEMENTS.
13. REMOVE EXISTING STREET SIGN AND SIGN POST. ANY SALVAGED MATERIALS TO REMAIN PROPERTY OF THE CITY. THE CONTRACTOR SHALL LOAD, DELIVER, AND UNLOAD ANY SALVAGED SIGN MATERIALS TO A LOCATION DEFINED BY THE CITY.
14. NOTE NOT USED ON THIS SHEET.
15. NOTE NOT USED ON THIS SHEET.
16. NOTE NOT USED ON THIS SHEET.
17. NOTE NOT USED ON THIS SHEET.
18. NOTE NOT USED ON THIS SHEET.
19. EXISTING UTILITY TO BE RELOCATED OR EXTENDED BY SKAGIT P.U.D. NO. 1 DURING CONSTRUCTION.



6		
5		
4		
3		
2		
1		
REVISION	DATE	DESCRIPTION

PREPARED FOR:

CITY OF Burlington
SKAGIT COUNTY, WASHINGTON INCORPORATED 1892
833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
P.O. (360) 899-5953 | W: www.tuttle-team.com

IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
ISSUE DATE: JANUARY 9, 2023
DESIGNED BY: MATT RANDALL, P.E.
CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

EXISTING CONDITIONS, EROSION CONTROL, AND SITE PREPARATION PLAN

EC5

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-05-SHEET-EC.dwg - EC6 - Bull, Coge - 1/23/2023 3:40 PM



CONSTRUCTION NOTES

1. REMOVE EXISTING CONCRETE SIDEWALK. RETAIN FULL PEDESTRIAN USE UNTIL REMOVED SIDEWALK IS REPLACED AND MADE OPERABLE BY NEW SIDEWALK IMPROVEMENTS. EXISTING SIDEWALK JOINTS SHALL BE USED TO DETERMINE LIMITS OF REMOVAL.
2. REMOVE EXISTING CONCRETE CURB AND GUTTER IN PREPARATION FOR NEW ROADWAY IMPROVEMENTS.
3. SAWCUT AND REMOVE EXISTING ASPHALT OR CONCRETE PAVEMENT AS SHOWN IN PREPARATION FOR ROADWAY REHABILITATION ACTIVITIES. REMOVAL TIMELINE DEPENDANT UPON PHASED PEDESTRIAN AND TRAFFIC CONTROL AND CONSTRUCTION ACTIVITIES. CLEAN AND TACK ALL ASPHALT AND CONCRETE EDGES PRIOR TO PAVING. SEAL ALL JOINTS AFTER PAVING WITH PG 58H-22 BINDER.
4. NOTE NOT USED ON THIS SHEET.
5. NOTE NOT USED ON THIS SHEET.
6. NOTE NOT USED ON THIS SHEET.
7. NOTE NOT USED ON THIS SHEET.
8. NOTE NOT USED ON THIS SHEET.
9. NOTE NOT USED ON THIS SHEET.
10. NOTE NOT USED ON THIS SHEET.
11. NOTE NOT USED ON THIS SHEET.
12. NOTE NOT USED ON THIS SHEET.
13. NOTE NOT USED ON THIS SHEET.
14. REMOVE EXISTING PAINT OR PLASTIC PAVEMENT MARKING OR SYMBOL.
15. NOTE NOT USED ON THIS SHEET.
16. NOTE NOT USED ON THIS SHEET.
17. NOTE NOT USED ON THIS SHEET.
18. NOTE NOT USED ON THIS SHEET.
19. NOTE NOT USED ON THIS SHEET.

EROSION CONTROL NOTES

- A. INSTALL A CATCH BASIN INSERT IN EACH EXISTING CATCH BASIN AND IN EACH NEW CATCH BASIN AFTER IT HAS BEEN INSTALLED PER WSDOT STANDARD PLAN 1-40.20.00.
- B. NOTE NOT USED ON THIS SHEET.
- C. NOTE NOT USED ON THIS SHEET.
- D. NOTE NOT USED ON THIS SHEET.
- E. NOTE NOT USED ON THIS SHEET.
- F. NOTE NOT USED ON THIS SHEET.

EXISTING SANITARY STRUCTURES	
SSMH#5841	
RIM=30.33	
E IE=19.38, 12"PVC	
N IE=18.38, 12"PVC	



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

CITY OF Burlington
SKAGIT COUNTY, WASHINGTON INCORPORATED 1892
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | O: (360) 899-5953 | W: www.tuttle-team.com

IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: MATT RANDALL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

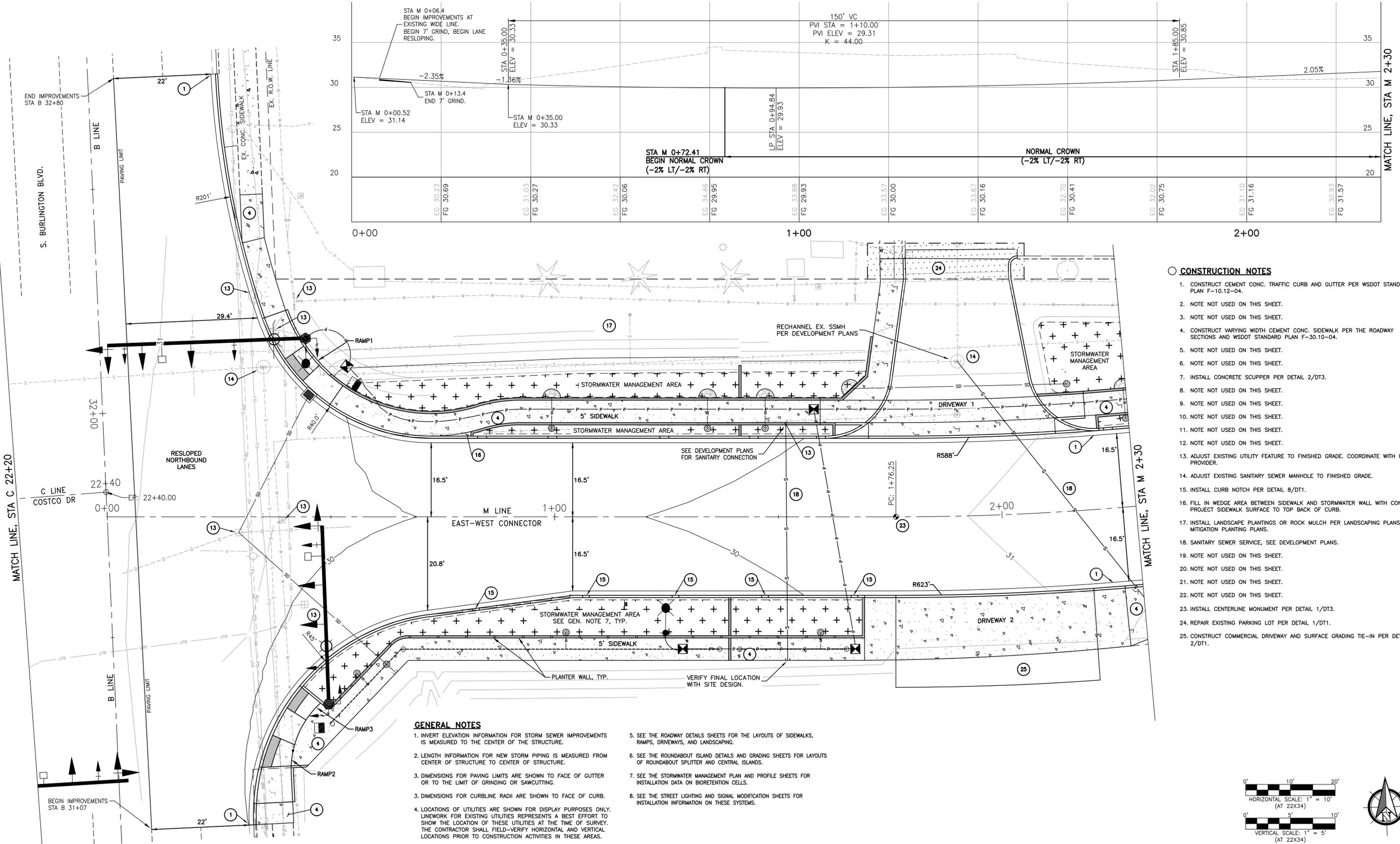
CITY OF BURLINGTON EAST-WEST CONNECTOR

EXISTING CONDITIONS, EROSION CONTROL,
AND SITE PREPARATION PLAN

EC6

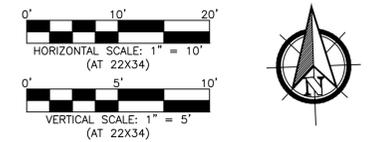
THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task_Order_17_E-W_Connector\7_Engineering\CADD\Plans\16615-06-SHEET-RU.dwg -- 1 RU1 -- Bull. Goge -- 1/23/2023 2:33 PM

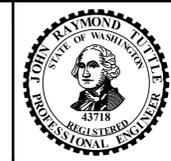


- CONSTRUCTION NOTES**
1. CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F-10.12-04.
 2. NOTE NOT USED ON THIS SHEET.
 3. NOTE NOT USED ON THIS SHEET.
 4. CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND WSDOT STANDARD PLAN F-30.10-04.
 5. NOTE NOT USED ON THIS SHEET.
 6. NOTE NOT USED ON THIS SHEET.
 7. INSTALL CONCRETE SCUPPER PER DETAIL 2/DT3.
 8. NOTE NOT USED ON THIS SHEET.
 9. NOTE NOT USED ON THIS SHEET.
 10. NOTE NOT USED ON THIS SHEET.
 11. NOTE NOT USED ON THIS SHEET.
 12. NOTE NOT USED ON THIS SHEET.
 13. ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE. COORDINATE WITH UTILITY PROVIDER.
 14. ADJUST EXISTING SANITARY SEWER MANHOLE TO FINISHED GRADE.
 15. INSTALL CURB NOTCH PER DETAIL 8/DT1.
 16. FILL IN WEDGE AREA BETWEEN SIDEWALK AND STORMWATER WALL WITH CONCRETE. PROJECT SIDEWALK SURFACE TO TOP BACK OF CURB.
 17. INSTALL LANDSCAPE PLANTINGS OR ROCK MULCH PER LANDSCAPING PLANS OR MITIGATION PLANTING PLANS.
 18. SANITARY SEWER SERVICE, SEE DEVELOPMENT PLANS.
 19. NOTE NOT USED ON THIS SHEET.
 20. NOTE NOT USED ON THIS SHEET.
 21. NOTE NOT USED ON THIS SHEET.
 22. NOTE NOT USED ON THIS SHEET.
 23. INSTALL CENTERLINE MONUMENT PER DETAIL 1/DT3.
 24. REPAIR EXISTING PARKING LOT PER DETAIL 1/DT1.
 25. CONSTRUCT COMMERCIAL DRIVEWAY AND SURFACE GRADING TIE-IN PER DETAIL 2/DT1.

- GENERAL NOTES**
1. INVERT ELEVATION INFORMATION FOR STORM SEWER IMPROVEMENTS IS MEASURED TO THE CENTER OF THE STRUCTURE.
 2. LENGTH INFORMATION FOR NEW STORM PIPING IS MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
 3. DIMENSIONS FOR PAVING LIMITS ARE SHOWN TO FACE OF GUTTER OR TO THE LIMIT OF GRINDING OR SAWCUTTING.
 3. DIMENSIONS FOR CURBLINE RADII ARE SHOWN TO FACE OF CURB.
 4. LOCATIONS OF UTILITIES ARE SHOWN FOR DISPLAY PURPOSES ONLY. LINENWORK FOR EXISTING UTILITIES REPRESENTS A BEST EFFORT TO SHOW THE LOCATION OF THESE UTILITIES AT THE TIME OF SURVEY. THE CONTRACTOR SHALL FIELD-VERIFY HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION ACTIVITIES IN THESE AREAS.
 5. SEE THE ROADWAY DETAILS SHEETS FOR THE LAYOUTS OF SIDEWALKS, RAMPS, DRIVEWAYS, AND LANDSCAPING.
 6. SEE THE ROUNDABOUT ISLAND DETAILS AND GRADING SHEETS FOR LAYOUTS OF ROUNDABOUT SPLITTER AND CENTRAL ISLANDS.
 7. SEE THE STORMWATER MANAGEMENT PLAN AND PROFILE SHEETS FOR INSTALLATION DATA ON BIORETENTION CELLS.
 8. SEE THE STREET LIGHTING AND SIGNAL MODIFICATION SHEETS FOR INSTALLATION INFORMATION ON THESE SYSTEMS.



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



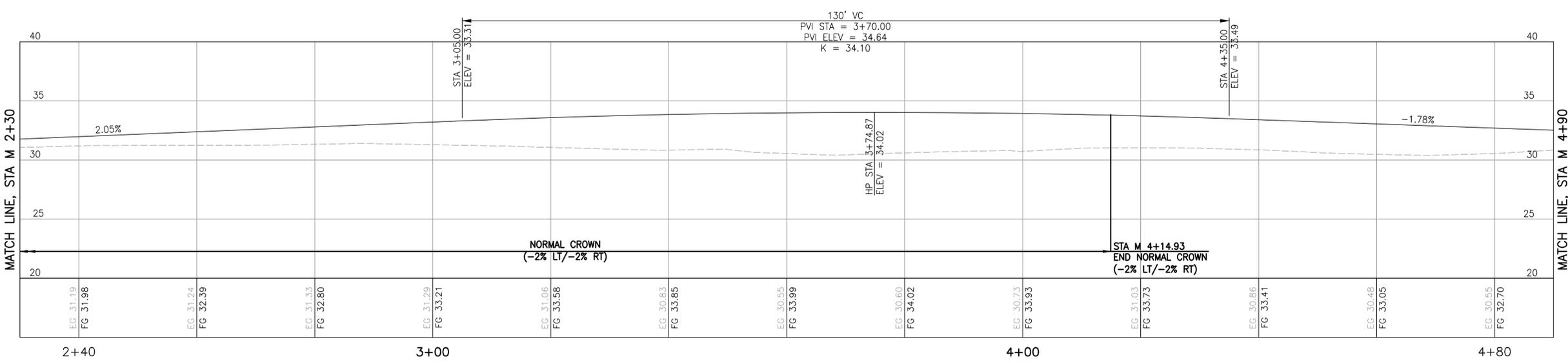
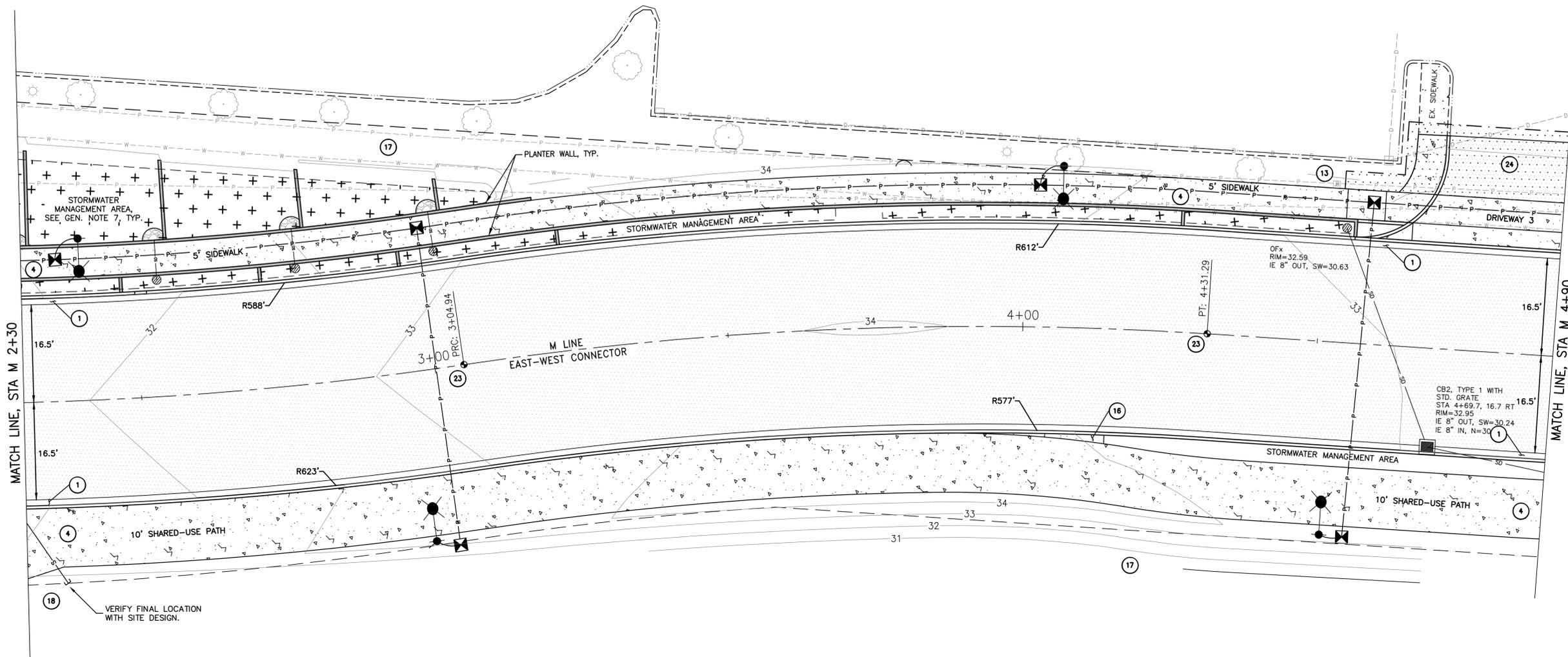
IN ASSOCIATION WITH	LOCHNER
DESCRIPTION:	100% DESIGN
ISSUE DATE:	JANUARY 9, 2023
DESIGNED BY:	CHRIS NEAL, P.E.
CHECKED BY:	JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
ROAD AND UTILITIES
PLAN AND PROFILE

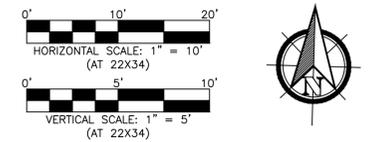
RU1

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task_Order_17_E-W_Connector\7_Engineering\CADD\Plans\16615-06-SHEET-RU.dwg - 2_RU2 - Bull, Gage - 1/23/2023 2:44 PM



- CONSTRUCTION NOTES**
- CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F-10.12-04.
 - NOTE NOT USED ON THIS SHEET.
 - NOTE NOT USED ON THIS SHEET.
 - CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND WSDOT STANDARD PLAN F-30.10-04.
 - NOTE NOT USED ON THIS SHEET.
 - ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE. COORDINATE WITH UTILITY PROVIDER.
 - NOTE NOT USED ON THIS SHEET.
 - INSTALL CURB NOTCH PER DETAIL 8/DT1.
 - FILL IN WEDGE AREA BETWEEN SIDEWALK AND STORMWATER WALL WITH CONCRETE. PROJECT SIDEWALK SURFACE TO TOP BACK OF CURB.
 - INSTALL LANDSCAPE PLANTINGS OR ROCK MULCH PER LANDSCAPING PLANS OR MITIGATION PLANTING PLANS.
 - SANITARY SEWER SERVICE, SEE DEVELOPMENT PLANS.
 - NOTE NOT USED ON THIS SHEET.
 - INSTALL CENTERLINE MONUMENT PER DETAIL 1/DT3.
 - REPAIR EXISTING PARKING LOT PER DETAIL 1/DT1.
 - NOTE NOT USED ON THIS SHEET.



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: CHRIS NEAL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

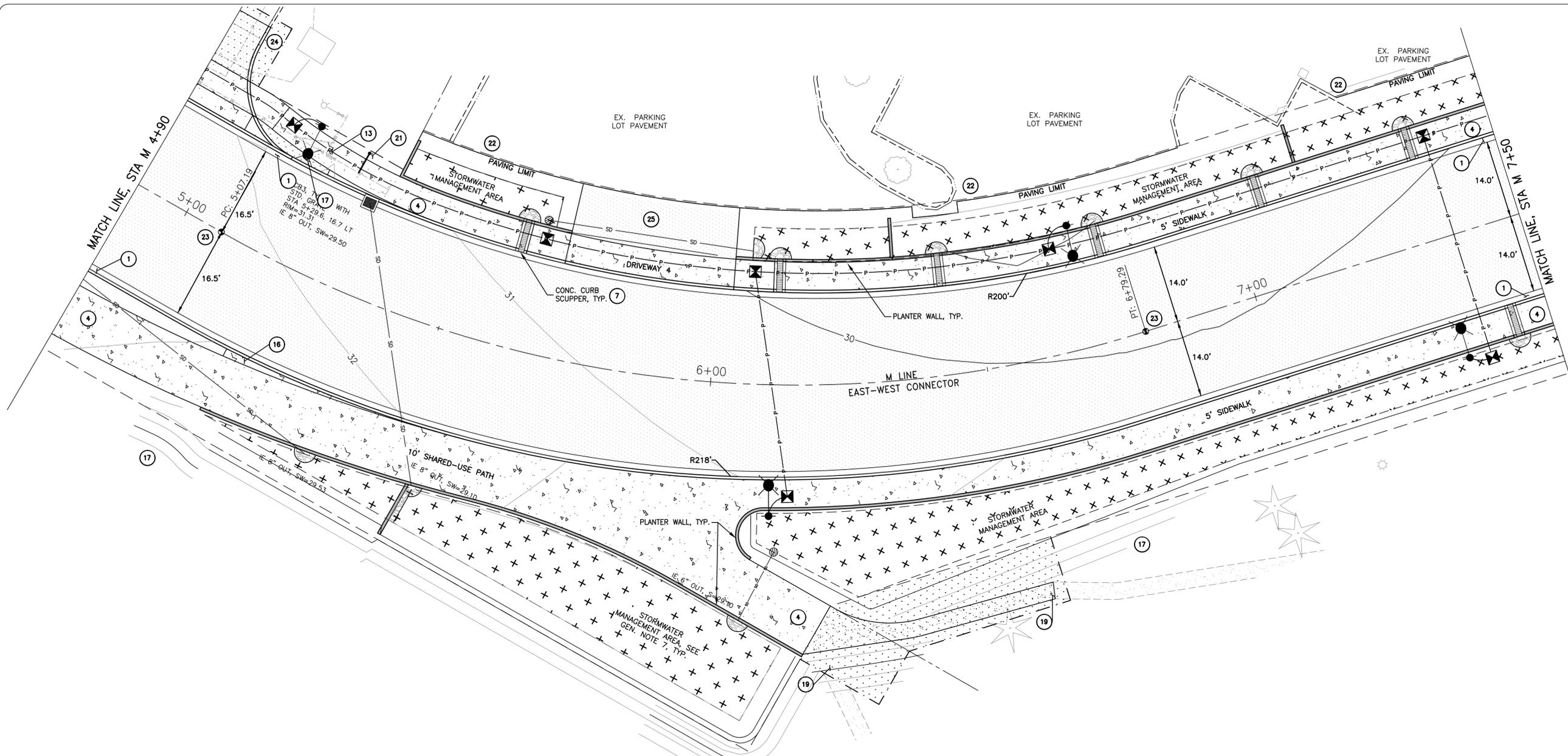
CITY OF BURLINGTON EAST-WEST CONNECTOR

ROAD AND UTILITIES
 PLAN AND PROFILE

RU2

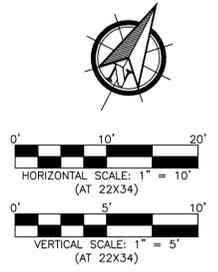
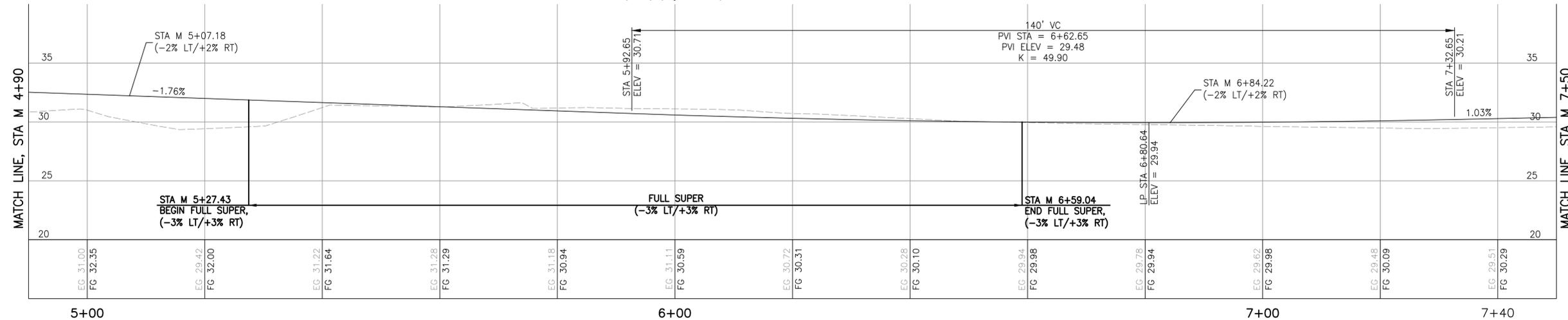
THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-06-SHEET-RU.dwg - 3 RU3 - Bull, Gage - 1/23/2023 2:48 PM

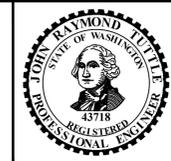


CONSTRUCTION NOTES

1. CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F-10.12-04.
2. NOTE NOT ON THIS SHEET.
3. NOTE NOT ON THIS SHEET.
4. CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND WSDOT STANDARD PLAN F-30.10-04.
5. NOTE NOT ON THIS SHEET.
6. NOTE NOT ON THIS SHEET.
7. INSTALL CONCRETE SCUPPER PER DETAIL 2/DT3.
8. NOTE NOT ON THIS SHEET.
9. NOTE NOT ON THIS SHEET.
10. NOTE NOT ON THIS SHEET.
11. NOTE NOT ON THIS SHEET.
12. NOTE NOT ON THIS SHEET.
13. ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE. COORDINATE WITH UTILITY PROVIDER.
14. NOTE NOT ON THIS SHEET.
15. INSTALL CURB NOTCH PER DETAIL 8/DT1.
16. FILL IN WEDGE AREA BETWEEN SIDEWALK AND STORMWATER WALL WITH CONCRETE. PROJECT SIDEWALK SURFACE TO TOP BACK OF CURB.
17. INSTALL LANDSCAPE PLANTINGS OR ROCK MULCH PER LANDSCAPING PLANS OR MITIGATION PLANTING PLANS.
18. NOTE NOT ON THIS SHEET.
19. CONNECT NEW SIDEWALK INTO EXISTING TRAIL. MATCH EXISTING MATERIALS AND WIDTH, MAXIMUM SLOPE AT 10 PERCENT.
20. NOTE NOT ON THIS SHEET.
21. USE DUCTILE IRON OR POLYETHYLENE PIPE, FITTINGS, AND BLOCKING TO RELOCATE EXISTING FIRE HYDRANT OR BLOWOFF.
22. REPAIR EXISTING ROAD OR PARKING LOT PER DETAIL 5/DT2.
23. INSTALL CENTERLINE MONUMENT PER DETAIL 1/DT3.
24. REPAIR EXISTING PARKING LOT PER DETAIL 1/DT1.
25. CONSTRUCT COMMERCIAL DRIVEWAY AND SURFACE GRADING TIE-IN PER DETAIL 2/DT1.



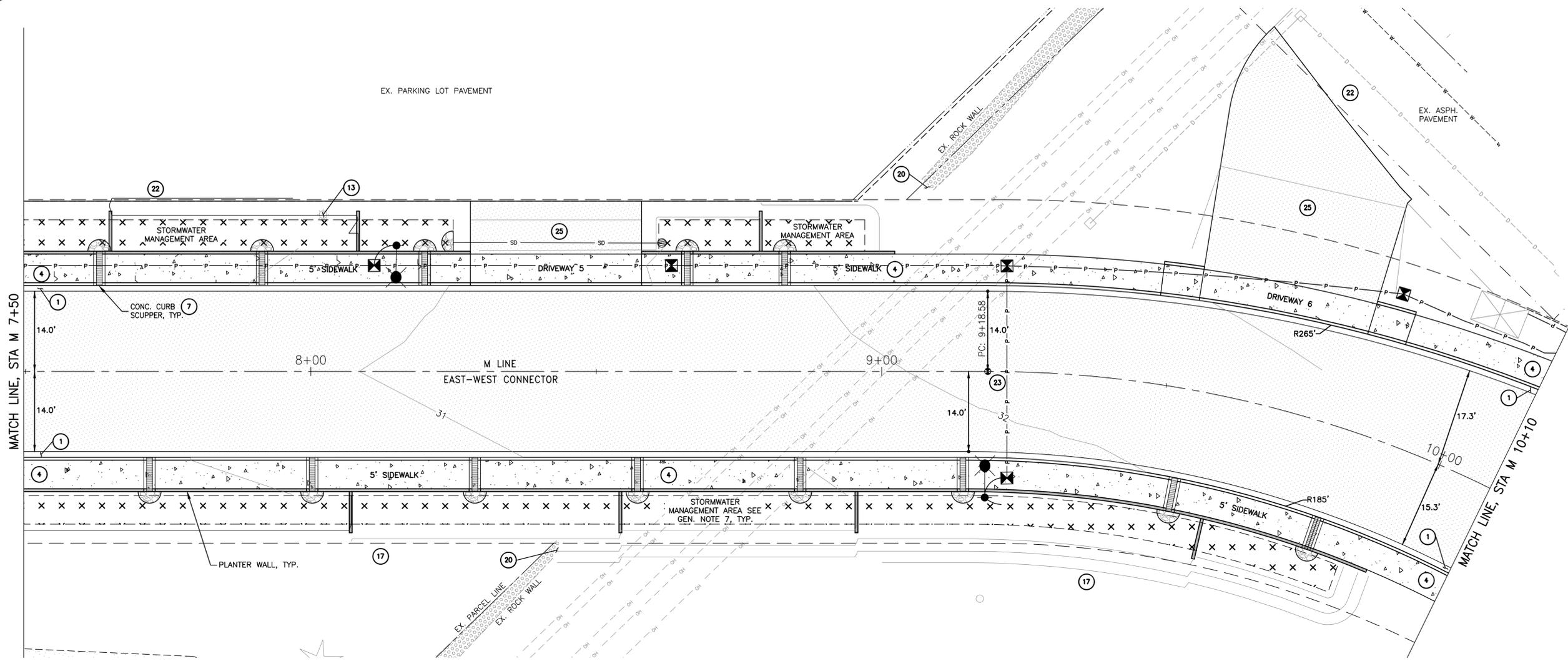
REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH	LOCHNER
DESCRIPTION:	100% DESIGN
ISSUE DATE:	JANUARY 9, 2023
DESIGNED BY:	CHRIS NEAL, P.E.
CHECKED BY:	JOHN R. TUTTLE, P.E.

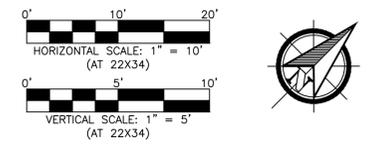
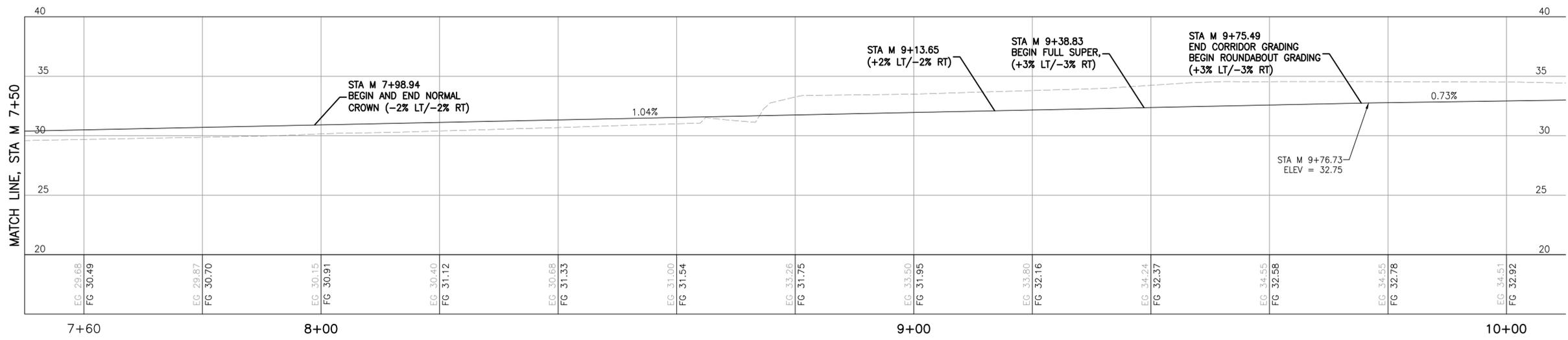
CITY OF BURLINGTON EAST-WEST CONNECTOR		RU3
ROAD AND UTILITIES PLAN AND PROFILE		

I:\BLV\PR\000016615\Task_Order_17_E-W_Connector\7_Engineering\CADD\Plans\16615-06-SHEET-RU.dwg - 4_RU4 - Bull. Gage - 1/23/2023 2:56 PM



CONSTRUCTION NOTES

1. CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F-10.12-04.
2. NOTE NOT ON THIS SHEET.
3. NOTE NOT ON THIS SHEET.
4. CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND WSDOT STANDARD PLAN F-30.10-04.
5. NOTE NOT ON THIS SHEET.
6. NOTE NOT ON THIS SHEET.
7. INSTALL CONCRETE SCUPPER PER DETAIL 2/DT3.
8. NOTE NOT ON THIS SHEET.
9. NOTE NOT ON THIS SHEET.
10. NOTE NOT ON THIS SHEET.
11. NOTE NOT ON THIS SHEET.
12. NOTE NOT ON THIS SHEET.
13. ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE. COORDINATE WITH UTILITY PROVIDER.
14. NOTE NOT ON THIS SHEET.
15. NOTE NOT ON THIS SHEET.
16. NOTE NOT ON THIS SHEET.
17. INSTALL LANDSCAPE PLANTINGS OR ROCK MULCH PER LANDSCAPING PLANS OR MITIGATION PLANTING PLANS.
18. NOTE NOT ON THIS SHEET.
19. NOTE NOT ON THIS SHEET.
20. BLEND CUT SLOPE INTO EXISTING WALL USING EXISTING WALL MATERIALS.
21. NOTE NOT ON THIS SHEET.
22. REPAIR EXISTING ROAD OR PARKING LOT PER DETAIL 5/DT2.
23. INSTALL CENTERLINE MONUMENT PER DETAIL 1/DT3.
24. NOTE NOT ON THIS SHEET.
25. CONSTRUCT COMMERCIAL DRIVEWAY AND SURFACE GRADING TIE-IN PER DETAIL 2/DT1.



6		
5		
4		
3		
2		
1		
REVISION	DATE	DESCRIPTION

PREPARED FOR:

CITY OF Burlington
SKAGIT COUNTY, WASHINGTON INCORPORATED 1892
833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
1 0-360 899-5953 | W: www.tuttle-team.com

IN ASSOCIATION WITH **LOCHNER**

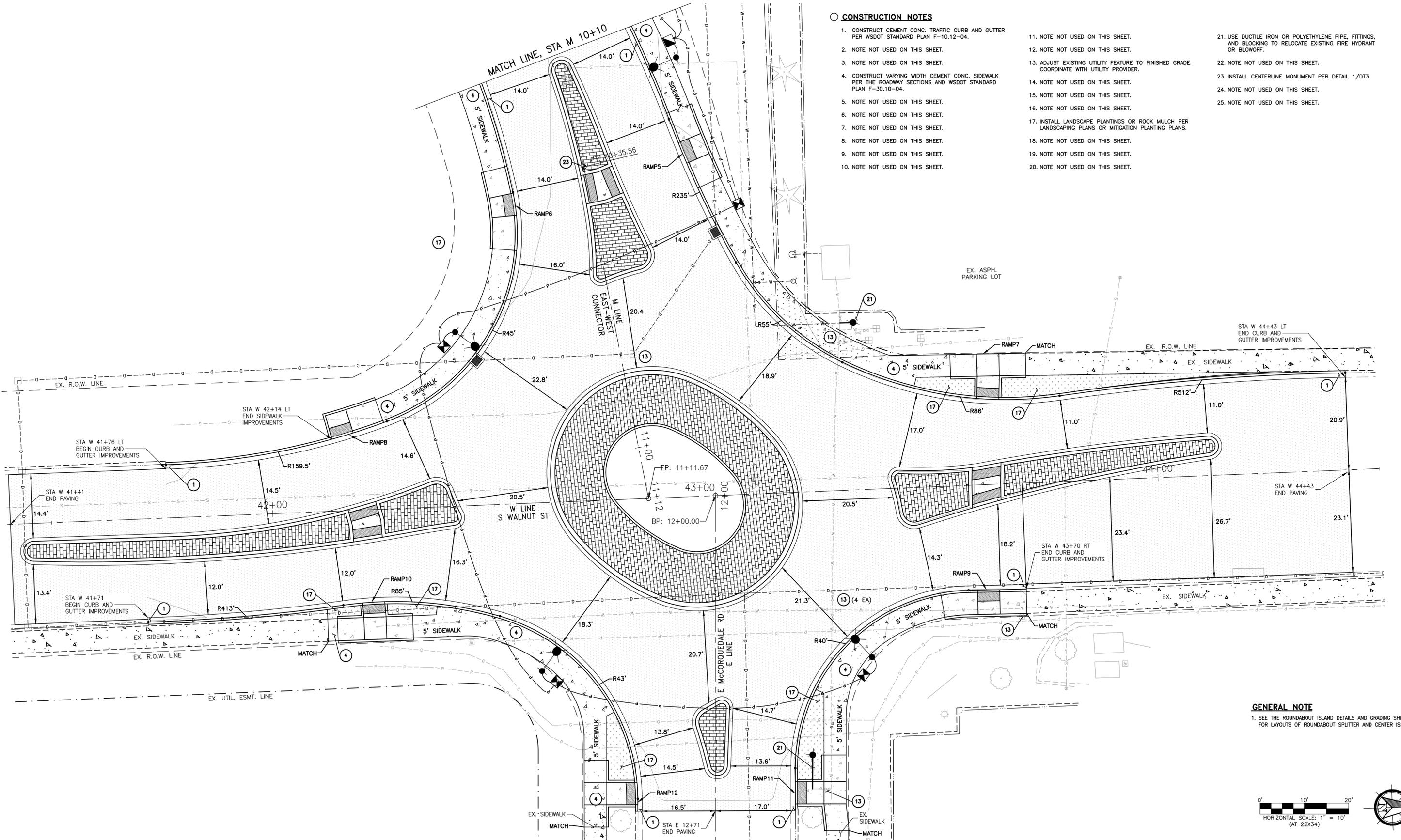
DESCRIPTION: 100% DESIGN
ISSUE DATE: JANUARY 9, 2023
DESIGNED BY: CHRIS NEAL, P.E.
CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

ROAD AND UTILITIES
PLAN AND PROFILE

RU4

D:\East-West Connector\Z_Engineering\CADD\Plans - MOVED TO I DRIVE 01.09.2023\16615-06-SHEET-RU.dwg - 5_RU5 - Tuttle, John - 1/17/2023 11:04 AM



CONSTRUCTION NOTES

1. CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F-10.12-04.
2. NOTE NOT USED ON THIS SHEET.
3. NOTE NOT USED ON THIS SHEET.
4. CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND WSDOT STANDARD PLAN F-30.10-04.
5. NOTE NOT USED ON THIS SHEET.
6. NOTE NOT USED ON THIS SHEET.
7. NOTE NOT USED ON THIS SHEET.
8. NOTE NOT USED ON THIS SHEET.
9. NOTE NOT USED ON THIS SHEET.
10. NOTE NOT USED ON THIS SHEET.
11. NOTE NOT USED ON THIS SHEET.
12. NOTE NOT USED ON THIS SHEET.
13. ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE. COORDINATE WITH UTILITY PROVIDER.
14. NOTE NOT USED ON THIS SHEET.
15. NOTE NOT USED ON THIS SHEET.
16. NOTE NOT USED ON THIS SHEET.
17. INSTALL LANDSCAPE PLANTINGS OR ROCK MULCH PER LANDSCAPING PLANS OR MITIGATION PLANTING PLANS.
18. NOTE NOT USED ON THIS SHEET.
19. NOTE NOT USED ON THIS SHEET.
20. NOTE NOT USED ON THIS SHEET.
21. USE DUCTILE IRON OR POLYETHYLENE PIPE, FITTINGS, AND BLOCKING TO RELOCATE EXISTING FIRE HYDRANT OR BLOWOFF.
22. NOTE NOT USED ON THIS SHEET.
23. INSTALL CENTERLINE MONUMENT PER DETAIL 1/DT3.
24. NOTE NOT USED ON THIS SHEET.
25. NOTE NOT USED ON THIS SHEET.

GENERAL NOTE

1. SEE THE ROUNDABOUT ISLAND DETAILS AND GRADING SHEETS FOR LAYOUTS OF ROUNDABOUT SPLITTER AND CENTER ISLANDS.



6		
5		
4		
3		
2		
1		
REVISION	DATE	DESCRIPTION

PREPARED FOR:

CITY OF Burlington
SKAGIT COUNTY, WASHINGTON INCORPORATED 1902
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | P: (360) 899-5953 | W: www.tuttle-team.com



IN ASSOCIATION WITH

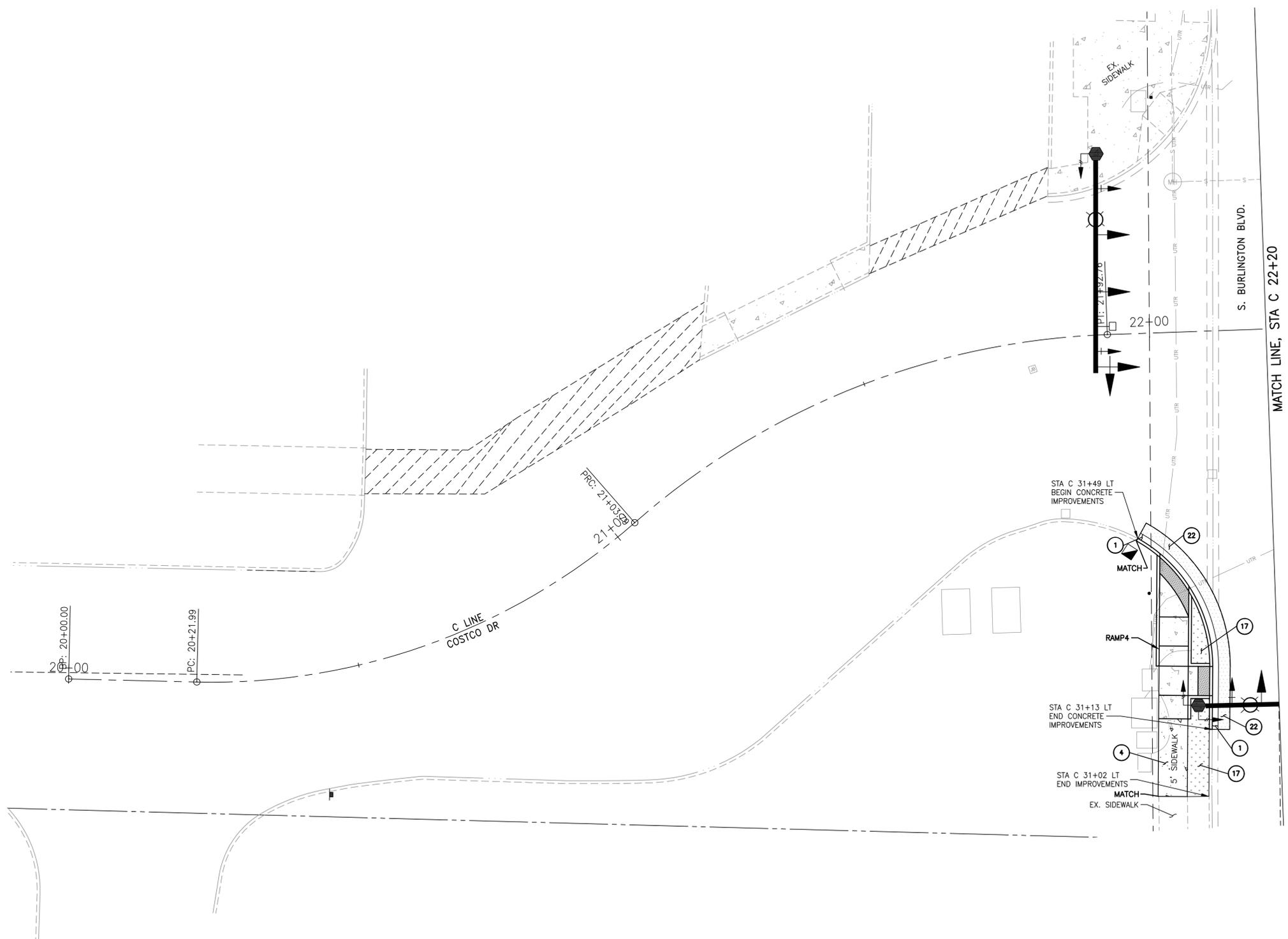
LOCHNER
 DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: CHRIS NEAL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

ROAD AND UTILITIES PLAN

RU5

D:\East-West Connector\7_Engineering\CADD\Plans - MOVED TO I DRIVE 01.09.2023\16615-06-SHEET-RU.dwg - 6 RU6 - Tuttle, John - 1/17/2023 11:06 AM

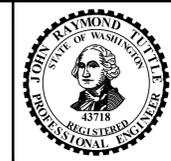


CONSTRUCTION NOTES

1. CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER WSDOT STANDARD PLAN F-10.12-04.
2. NOTE NOT ON THIS SHEET.
3. NOTE NOT ON THIS SHEET.
4. CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND WSDOT STANDARD PLAN F-30.10-04.
5. NOTE NOT ON THIS SHEET.
6. NOTE NOT ON THIS SHEET.
7. NOTE NOT ON THIS SHEET.
8. NOTE NOT ON THIS SHEET.
9. NOTE NOT ON THIS SHEET.
10. NOTE NOT ON THIS SHEET.
11. NOTE NOT ON THIS SHEET.
12. NOTE NOT ON THIS SHEET.
13. NOTE NOT ON THIS SHEET.
14. NOTE NOT ON THIS SHEET.
15. NOTE NOT ON THIS SHEET.
16. NOTE NOT ON THIS SHEET.
17. INSTALL LANDSCAPE PLANTINGS OR ROCK MULCH PER LANDSCAPING PLANS OR MITIGATION PLANTING PLANS.
18. NOTE NOT ON THIS SHEET.
19. NOTE NOT ON THIS SHEET.
20. NOTE NOT ON THIS SHEET.
21. NOTE NOT ON THIS SHEET.
22. REPAIR EXISTING ROAD OR PARKING LOT PER DETAIL 5/DT2.
23. NOTE NOT ON THIS SHEET.
24. NOTE NOT ON THIS SHEET.
25. NOTE NOT ON THIS SHEET.



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: JOHN R. TUTTLE, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

ROAD AND UTILITIES PLAN

RU6

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

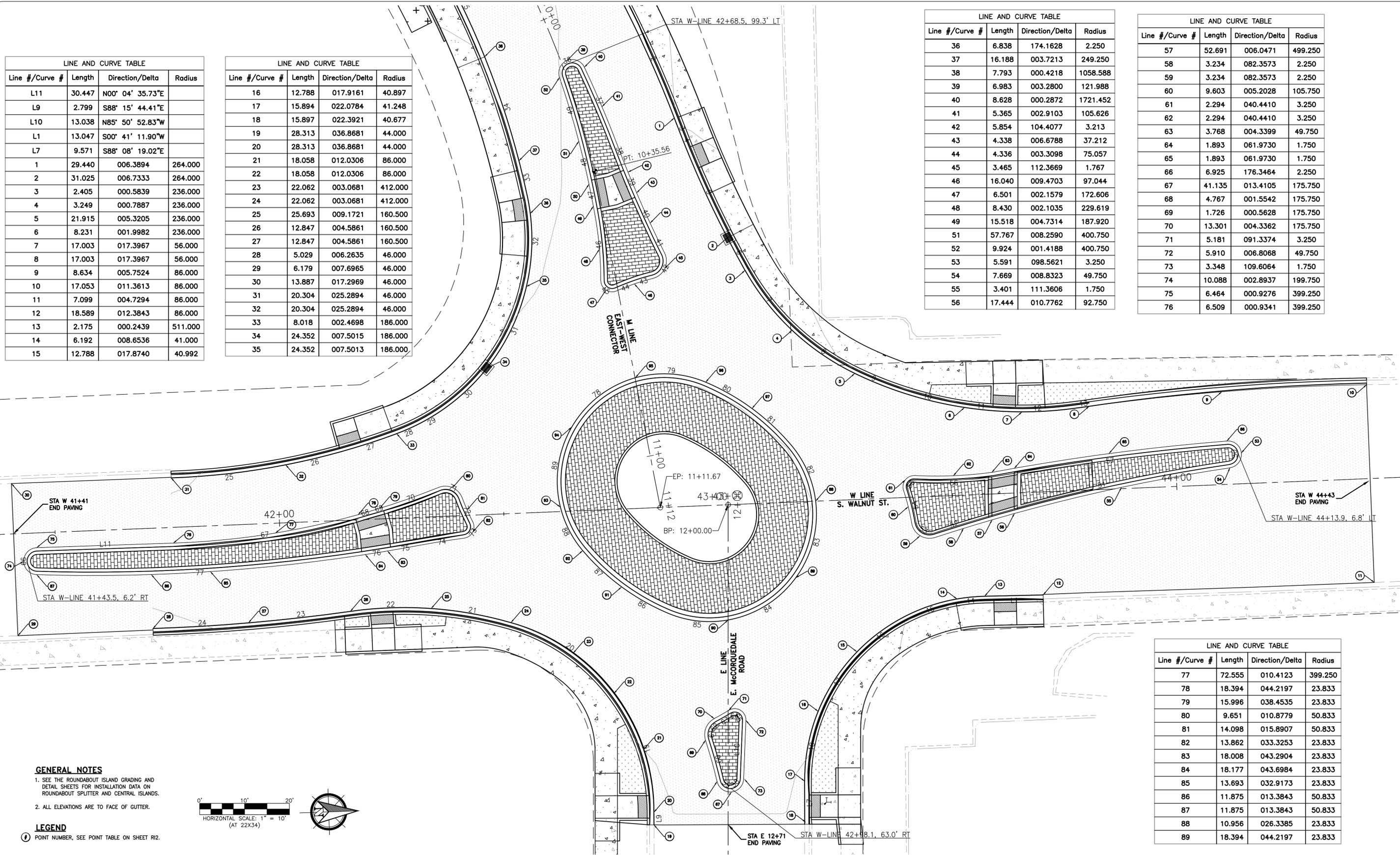
I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-07-SHEET-RI.dwg - RI1 - Bull, Coge - 1/25/2023 12:44 PM

LINE AND CURVE TABLE			
Line #/Curve #	Length	Direction/Delta	Radius
L11	30.447	N00° 04' 35.73"E	
L9	2.799	S88° 15' 44.41"E	
L10	13.038	N85° 50' 52.83"W	
L1	13.047	S00° 41' 11.90"W	
L7	9.571	S88° 08' 19.02"E	
1	29.440	006.3894	264.000
2	31.025	006.7333	264.000
3	2.405	000.5839	236.000
4	3.249	000.7887	236.000
5	21.915	005.3205	236.000
6	8.231	001.9982	236.000
7	17.003	017.3967	56.000
8	17.003	017.3967	56.000
9	8.634	005.7524	86.000
10	17.053	011.3613	86.000
11	7.099	004.7294	86.000
12	18.589	012.3843	86.000
13	2.175	000.2439	511.000
14	6.192	008.6536	41.000
15	12.788	017.8740	40.992

LINE AND CURVE TABLE			
Line #/Curve #	Length	Direction/Delta	Radius
16	12.788	017.9161	40.897
17	15.894	022.0784	41.248
18	15.897	022.3921	40.677
19	28.313	036.8681	44.000
20	28.313	036.8681	44.000
21	18.058	012.0306	86.000
22	18.058	012.0306	86.000
23	22.062	003.0681	412.000
24	22.062	003.0681	412.000
25	25.693	009.1721	160.500
26	12.847	004.5861	160.500
27	12.847	004.5861	160.500
28	5.029	006.2635	46.000
29	6.179	007.6965	46.000
30	13.887	017.2969	46.000
31	20.304	025.2894	46.000
32	20.304	025.2894	46.000
33	8.018	002.4698	186.000
34	24.352	007.5015	186.000
35	24.352	007.5013	186.000

LINE AND CURVE TABLE			
Line #/Curve #	Length	Direction/Delta	Radius
36	6.838	174.1628	2.250
37	16.188	003.7213	249.250
38	7.793	000.4218	1058.588
39	6.983	003.2800	121.988
40	8.628	000.2872	1721.452
41	5.365	002.9103	105.626
42	5.854	104.4077	3.213
43	4.338	006.6788	37.212
44	4.336	003.3098	75.057
45	3.465	112.3669	1.767
46	16.040	009.4703	97.044
47	6.501	002.1579	172.606
48	8.430	002.1035	229.619
49	15.518	004.7314	187.920
51	57.767	008.2590	400.750
52	9.924	001.4188	400.750
53	5.591	098.5621	3.250
54	7.669	008.8323	49.750
55	3.401	111.3606	1.750
56	17.444	010.7762	92.750

LINE AND CURVE TABLE			
Line #/Curve #	Length	Direction/Delta	Radius
57	52.691	006.0471	499.250
58	3.234	082.3573	2.250
59	3.234	082.3573	2.250
60	9.603	005.2028	105.750
61	2.294	040.4410	3.250
62	2.294	040.4410	3.250
63	3.768	004.3399	49.750
64	1.893	061.9730	1.750
65	1.893	061.9730	1.750
66	6.925	176.3464	2.250
67	41.135	013.4105	175.750
68	4.767	001.5542	175.750
69	1.726	000.5628	175.750
70	13.301	004.3362	175.750
71	5.181	091.3374	3.250
72	5.910	006.8068	49.750
73	3.348	109.6064	1.750
74	10.088	002.8937	199.750
75	6.464	000.9276	399.250
76	6.509	000.9341	399.250

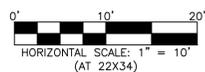


GENERAL NOTES

- SEE THE ROUNDABOUT ISLAND GRADING AND DETAIL SHEETS FOR INSTALLATION DATA ON ROUNDABOUT SPLITTER AND CENTRAL ISLANDS.
- ALL ELEVATIONS ARE TO FACE OF GUTTER.

LEGEND

POINT NUMBER, SEE POINT TABLE ON SHEET R12.



LINE AND CURVE TABLE			
Line #/Curve #	Length	Direction/Delta	Radius
77	72.555	010.4123	399.250
78	18.394	044.2197	23.833
79	15.996	038.4535	23.833
80	9.651	010.8779	50.833
81	14.098	015.8907	50.833
82	13.862	033.3253	23.833
83	18.008	043.2904	23.833
84	18.177	043.6984	23.833
85	13.693	032.9173	23.833
86	11.875	013.3843	50.833
87	11.875	013.3843	50.833
88	10.956	026.3385	23.833
89	18.394	044.2197	23.833

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

CITY OF BURLINGTON
SKAGIT COUNTY, WASHINGTON INCORPORATED 1892
833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
P.O. (360) 899-5953 | W: www.tuttle-team.com

IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
ISSUE DATE: JANUARY 9, 2023
DESIGNED BY: CHRIS NEAL, P.E.
CHECKED BY: JOHN R. TUTTLE, P.E.

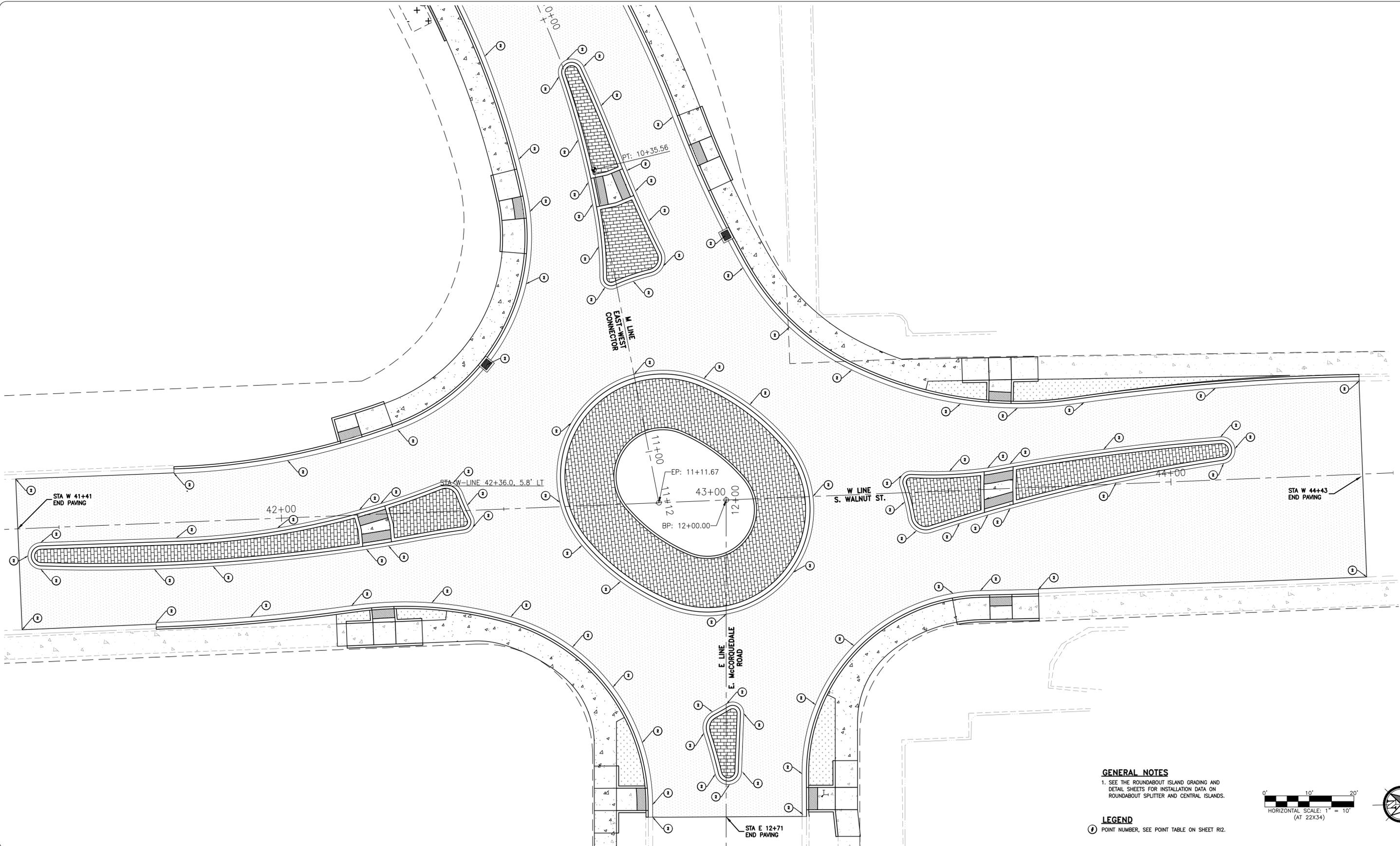
CITY OF BURLINGTON EAST-WEST CONNECTOR

ROUNDABOUT ISLAND GRADING PLAN

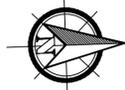
RI1

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-07-SHEET-RI.dwg - RI1 - Bull, Coge - 1/23/2023 4:00 PM



GENERAL NOTES
 1. SEE THE ROUNDABOUT ISLAND GRADING AND DETAIL SHEETS FOR INSTALLATION DATA ON ROUNDABOUT SPLITTER AND CENTRAL ISLANDS.



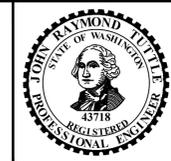
LEGEND
 (P) POINT NUMBER, SEE POINT TABLE ON SHEET RI2.

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

CITY OF Burlington
 SKAGIT COUNTY, WASHINGTON INCORPORATED 1892
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | O: (360) 899-5953 | W: www.tuttle-team.com



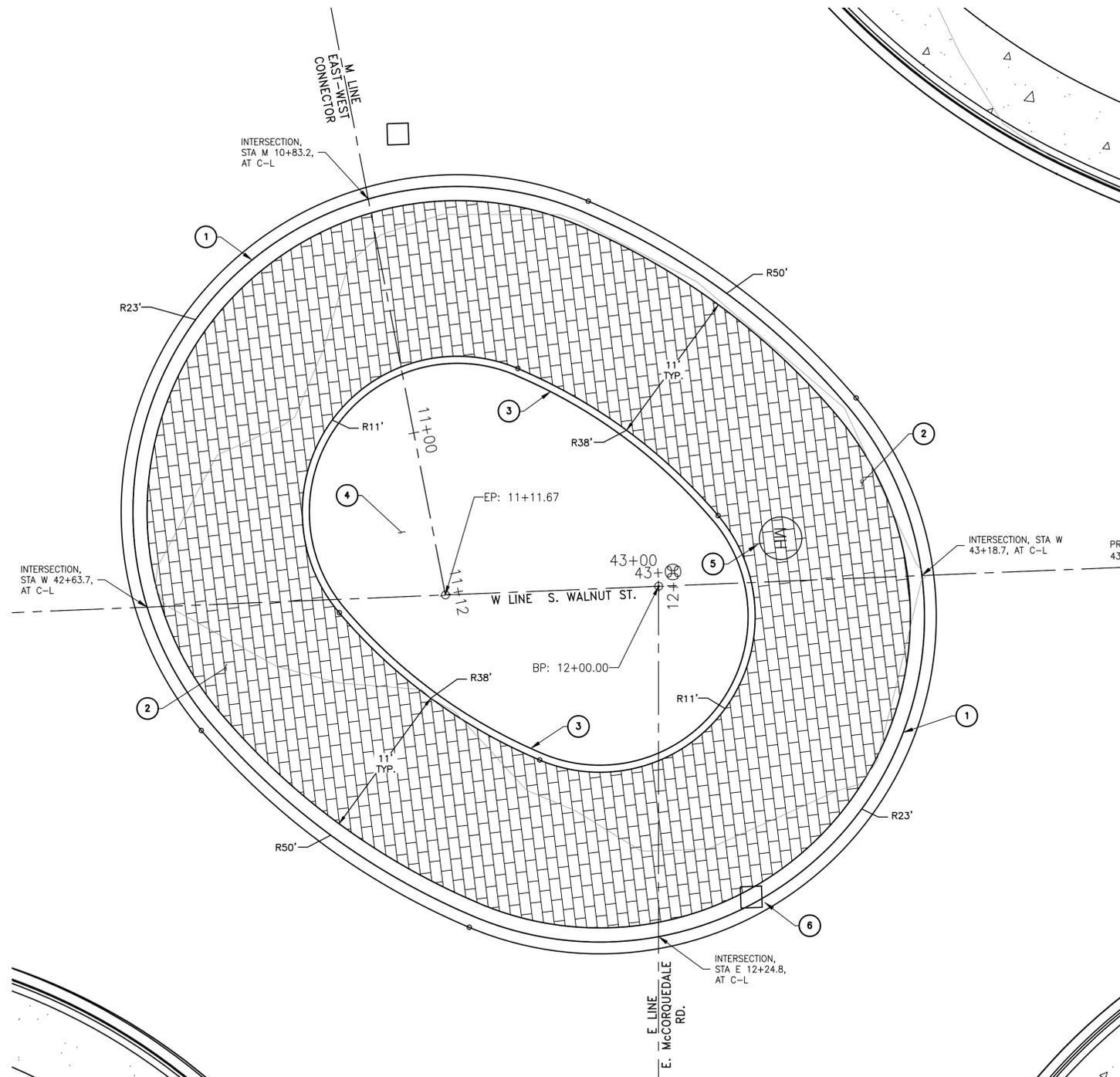
IN ASSOCIATION WITH **LOCHNER**
 DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: CHRIS NEAL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
 ROUNDABOUT ISLAND GRADING PLAN

RI1

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-07-SHEET-RI.dwg - R12 - Bull. Coge - 1/25/2023 12:47 PM



ROUNDABOUT CENTRAL ISLAND DETAIL

CONSTRUCTION NOTES

1. CONSTRUCT ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER (CURB 1) PER WSDOT STANDARD PLAN F-10.18-03.
2. CONSTRUCT PIGMENTED AND TEXTURED CEMENT CONCRETE ROUNDABOUT TRUCK APRON PER WSDOT STANDARD PLAN F-10.18-03.
3. CONSTRUCT ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB (CURB 3) PER WSDOT STANDARD PLAN F-10.18-03.
4. INSTALL LANDSCAPE PLANTINGS OR ROCK MULCH PER LANDSCAPE PLANS.
5. ADJUST EXISTING SANITARY SEWER MANHOLE TO FINISHED ASPHALT OR CONCRETE GRADE.
6. ADJUST EXISTING CATCH BASIN TO FINISHED ASPHALT OR CONCRETE GRADE.
7. EXPANSION JOINTS SHALL BE SPACED 12 FEET ON-CENTER RADIAL TO CURB.

POINT NUMBER	W LINE STATION	OFFSET	ELEVATION
1	42+91.51	-86.32'	33.52'
2	43+02.24	-59.24'	33.25'
3	43+05.87	-51.85'	33.31'
4	43+15.78	-38.12'	33.43'
5	43+29.35	-27.98'	33.55'
6	43+53.47	-19.43'	33.68'
7	43+66.22	-17.93'	33.60'
8	43+81.21	-18.58'	33.46'
9	44+10.86	-20.61'	*
10	44+43.16	-20.86'	*
11	44+43.07	23.09'	*
12	43+69.28	22.87'	33.50'
13	43+56.24	22.63'	33.64'
14	43+50.06	22.98'	33.70'
15	43+27.35	33.81'	33.32'
16	43+18.16	46.66'	33.08'
17	43+14.52	62.03'	32.95'
18	43+14.15	71.59'	32.90'
19	42+80.61	70.36'	32.90'
20	42+80.71	67.57'	32.91'
21	42+78.96	53.58'	33.00'
22	42+72.88	40.86'	33.06'
23	42+64.17	31.55'	33.14'
24	42+50.60	24.20'	33.21'
25	42+32.99	20.34'	33.30'
26	42+14.97	20.24'	33.23'
27	41+92.19	21.88'	33.08'
28	41+70.91	22.27'	32.90'
29	41+40.78	22.64'	33.00'
30	41+40.70	-11.19'	33.00'
31	41+76.32	-11.00'	32.91'
32	42+01.91	-12.86'	33.28'
33	42+26.89	-18.77'	33.41'
34	42+47.55	-32.46'	33.06'
35	42+57.05	-50.23'	32.94'
36	42+58.58	-66.38'	32.86'
37	42+56.55	-78.21'	32.77'
38	42+49.85	-101.61'	32.55'
39	42+68.17	-100.04'	33.05'
40	42+71.95	-98.38'	33.15'
41	42+75.51	-89.46'	33.22'
42	42+80.70	-74.70'	33.29'
43	42+82.45	-70.02'	33.27'
44	42+85.17	-63.20'	33.29'
45	42+88.02	-53.00'	33.34'
46	42+81.13	-49.84'	33.41'
47	42+74.73	-48.73'	33.34'
48	42+73.68	-57.89'	33.25'
49	42+72.71	-67.46'	33.18'
50	42+71.93	-72.40'	33.15'

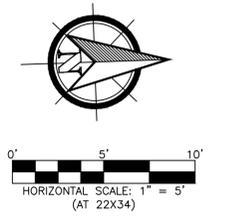
POINT NUMBER	W LINE STATION	OFFSET	ELEVATION
51	42+70.05	-82.02'	33.10'
52	42+66.33	-96.34'	32.99'
53	44+14.66	-6.84'	*
54	44+11.98	-3.64'	*
55	43+87.67	-0.30'	*
56	43+63.62	4.53'	33.83'
57	43+58.59	5.74'	33.86'
58	43+52.14	7.38'	33.86'
59	43+42.43	8.62'	33.84'
60	43+40.05	2.07'	33.90'
61	43+39.63	-3.89'	33.83'
62	43+50.37	-4.38'	33.88'
63	43+58.96	-4.79'	33.84'
64	43+64.01	-5.49'	33.82'
65	43+85.19	-7.90'	33.62'
66	44+11.55	-9.62'	*
67	42+98.15	63.75'	33.21'
68	42+95.04	61.32'	33.23'
69	42+92.83	52.06'	33.25'
70	42+94.98	47.33'	33.31'
71	42+98.28	45.63'	33.34'
72	43+02	48.01'	33.32'
73	43+01.18	61.08'	33.24'
74	41+42.74	6.15'	33.20'
75	41+45.76	3.27'	33.14'
76	41+76.20	3.50'	33.30'
77	41+99	2.18'	33.46'
78	42+17.57	-1.14'	33.59'
79	42+22.41	-2.34'	33.61'
80	42+38.84	-6.27'	33.55'
81	42+41.86	-1.19'	33.60'
82	42+42.91	3.78'	33.58'
83	42+23.78	7.18'	33.52'
84	42+18.80	7.77'	33.49'
85	41+84.20	10.15'	33.27'
86	41+71	10.27'	33.16'
87	41+45.52	9.26'	33.16'
88	43+19.50	0.00'	33.99'
89	43+14.39	16.82'	33.71'
90	42+98.96	25.58'	33.63'
91	42+75.55	17.28'	33.50'
92	42+67.21	8.87'	33.63'
93	42+62.64	-0.99'	33.75'
94	42+65.87	-18.63'	33.56'
95	42+80.50	-29.02'	33.70'
96	42+96.11	-27.40'	33.80'
97	43+06.17	-21.14'	33.86'

CURBLINE GRADING NOTE

* CONTRACTOR TO FIELD-IDENTIFY THE GRADES OF THE EXISTING FACE OF GUTTER, THEN INSTALL NEW CONC. CURB AND GUTTER TO SLOPES MATCHING THESE GRADES TO MAINTAIN EXISTING FLOW PATTERNS.

GENERAL NOTES

1. DIMENSIONS FOR CURBLINE RADII ARE SHOWN TO FACE OF CURB.



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

 CITY OF BURLINGTON
 SKAGIT COUNTY, WASHINGTON INCORPORATED 1982
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | O: (360) 899-5953 | W: www.tuttle-team.com



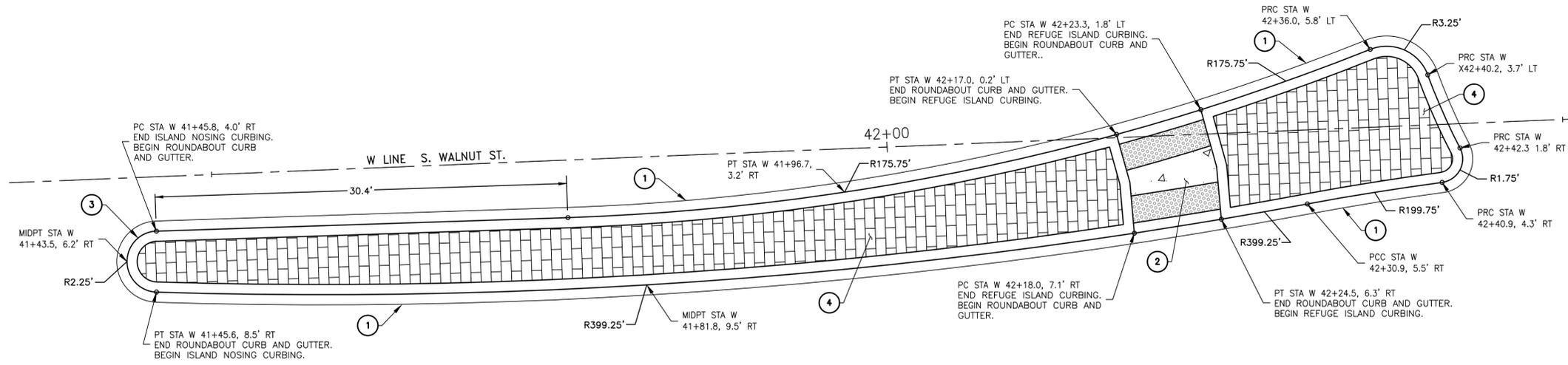
IN ASSOCIATION WITH
LOCHNER
 DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: CHRIS NEAL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
 ROUNDABOUT ISLAND DETAILS AND GRADING TABLE

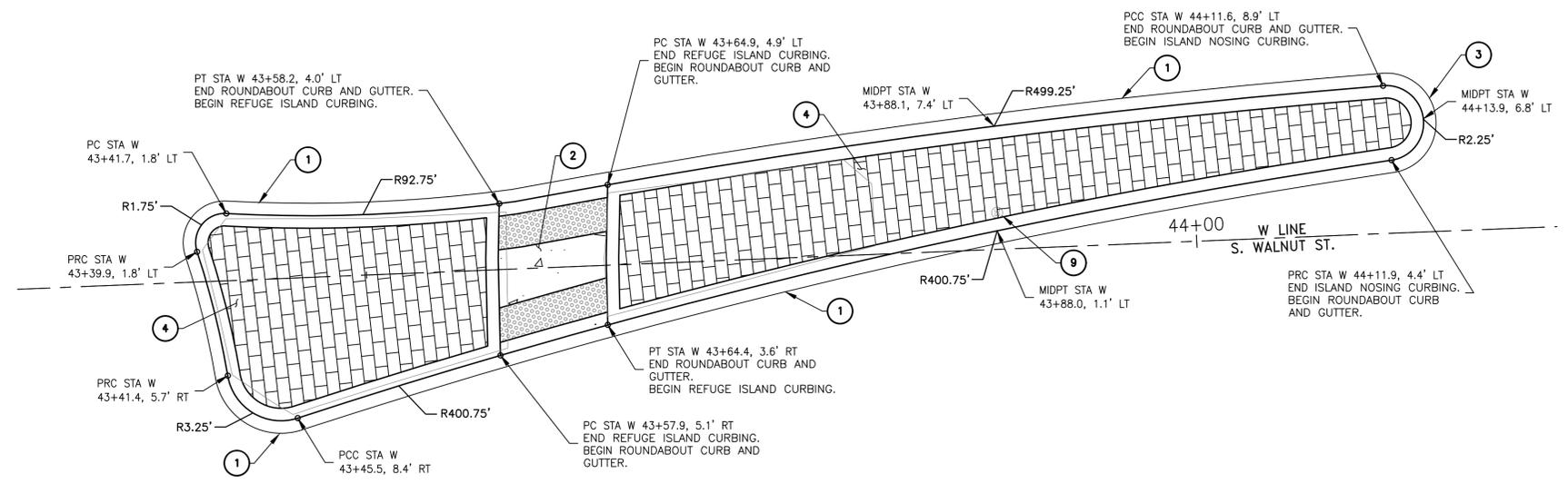
R12

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

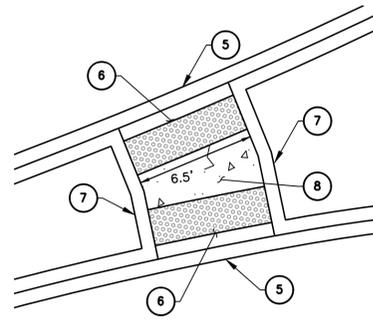
I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-07-SHEET-R13.dwg - R13 - Bull, Coge - 1/25/2023 12:55 PM



SOUTH ROUNDABOUT ISLAND DETAIL

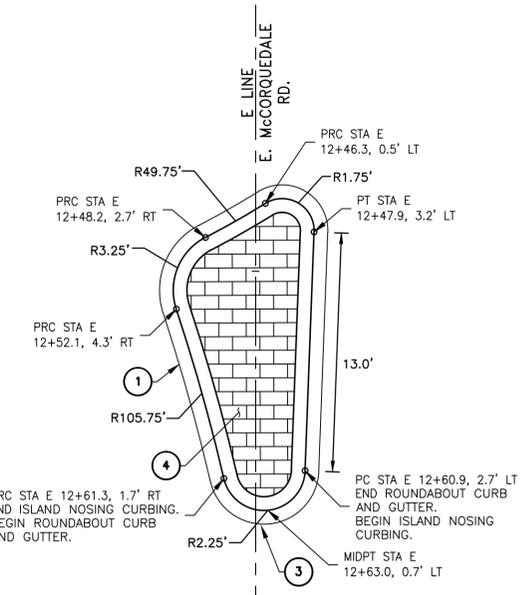
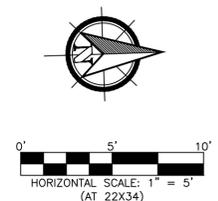


NORTH ROUNDABOUT ISLAND DETAIL

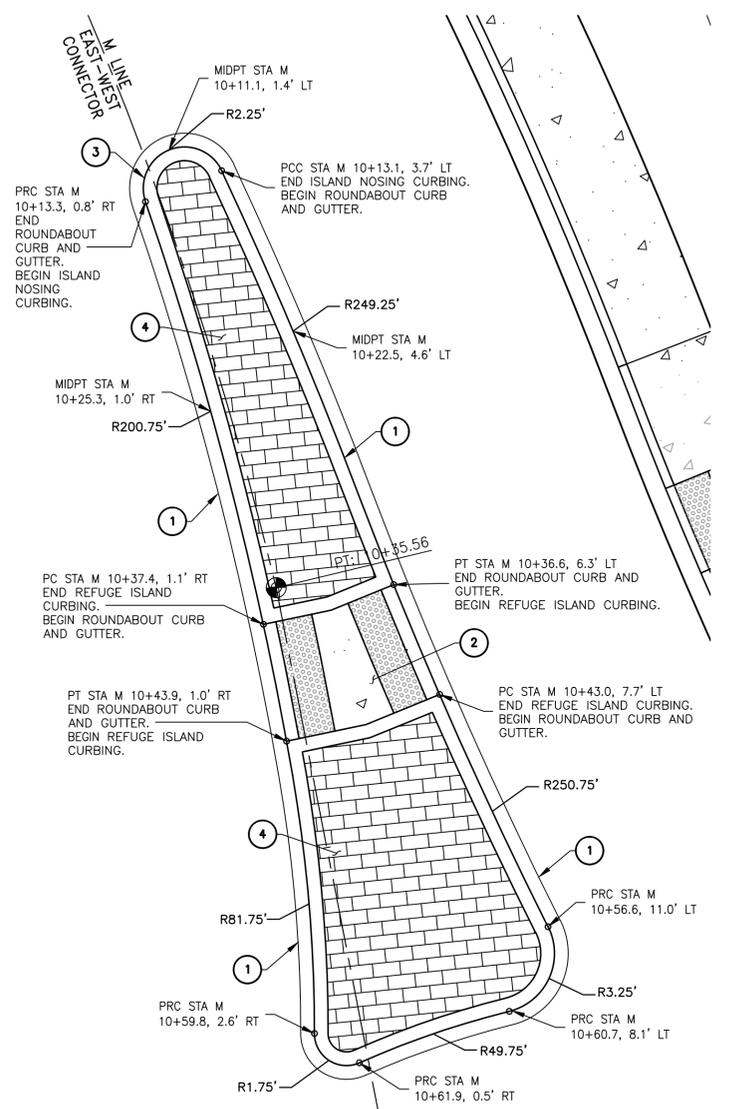


PEDESTRIAN REFUGE AREA DETAIL
NOT TO SCALE

- CONSTRUCTION NOTES**
1. CONSTRUCT ROUNDABOUT CEMENT CONCRETE CURB AND GUTTER (CURB 2) PER WSDOT STANDARD PLAN F-10.18-03.
 2. CONSTRUCT CEMENT CONCRETE PEDESTRIAN REFUGE AREA PER DETAIL ON THIS SHEET.
 3. CONSTRUCT ROUNDABOUT SPLITTER ISLAND NOSING CURBING PER WSDOT STANDARD PLAN F-10.18-03.
 4. INSTALL PIGMENTED AND TEXTURED CEMENT CONCRETE SPLITTER ISLAND PER DETAIL ON SHEET R12.
 5. INSTALL DEPRESSED CONCRETE CURB AND GUTTER SECTION PER WSDOT STANDARD PLAN F-10.12-04.
 6. INSTALL 2-FOOT WIDE DETECTABLE WARNING SURFACE PER WSDOT STANDARD PLAN F-45.10-03.
 7. INSTALL CEMENT CONCRETE PEDESTRIAN CURB WITH 4" REVEAL PER WSDOT STANDARD PLAN F-10.12.04.
 8. INSTALL CEMENT CONCRETE SIDEWALK WITH BROOMED PER WSDOT STANDARD PLAN F-30.10.04. SLOPE TO ROAD SURFACE AT 1.5%.
 9. ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE.



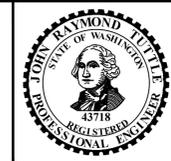
EAST ROUNDABOUT ISLAND DETAIL



WEST ROUNDABOUT ISLAND DETAIL

- GENERAL NOTE**
1. DIMENSIONS FOR CURBLINE RADII ARE SHOWN TO FACE OF CURB.
 2. SPLITTER ISLANDS SHALL HAVE EXPANSION JOINTS SPACED 15 FEET MAX.

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



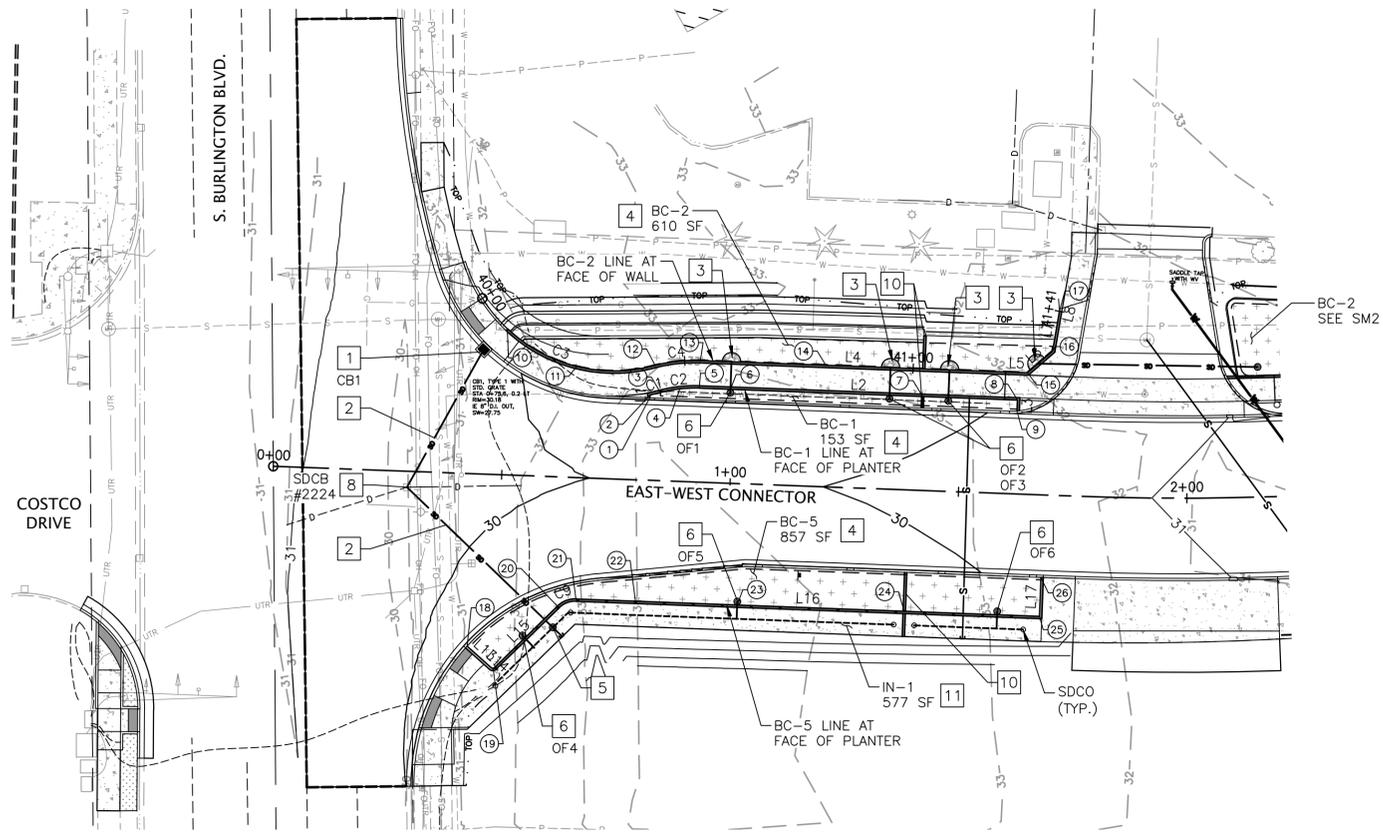
IN ASSOCIATION WITH	LOCHNER
DESCRIPTION:	100% DESIGN
ISSUE DATE:	JANUARY 9, 2023
DESIGNED BY:	CHRIS NEAL, P.E.
CHECKED BY:	JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

ROUNDABOUT ISLAND DETAILS

R13

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-08-SHEET-SD.dwg - SM1 - Randall, Matt - 1/24/2023 5:14 PM



BC-1						
NUMBER	RADIUS	DELTA	LENGTH	TANGENT	START STA.	END STA.
L1			0.62	N2° 07' 49.87"E	0+00	0+00.62
C1	40.00	3° 23' 00"	2.36		0+00.62	0+02.98
C2	29.00	16° 57' 27"	8.58		0+02.98	0+11.56
L2			69.64	S87° 52' 10.14"E	0+11.56	0+81.20
L3			2.40	S2° 07' 49.86"W	0+81.20	0+83.61

STA BC-1 0+00 = STA M 0+81.78, 18.0 LT
 STA BC-1 0+83.61 = STA M 1+62.16, 18.10 LT

BC-2						
NUMBER	RADIUS	DELTA	LENGTH	TANGENT	START STA.	END STA.
L8			0.01	S14° 17' 21.89"W	???	41+41.12
C3	34.00	73° 13' 36"	43.45		40+00	40+43.45
C4	35.00	16° 19' 33"	9.97		40+43.45	40+53.43
L4			66.81	S87° 52' 10.14"E	40+53.43	41+20.24
L5			4.80	S87° 52' 10.14"E	41+20.24	41+25.04
L6			7.26	N49° 05' 25.18"E	41+25.04	41+32.30
L7			8.82	N9° 55' 40.42"E	41+32.30	41+41.12

STA BC-2 40+00 = STA M 0+50.07, 31.86 LT
 STA BC-2 41+41.12 = STA M 1+70.64, 40.20 LT

BC-5						
NUMBER	RADIUS	DELTA	LENGTH	TANGENT	START STA.	END STA.
L13			7.07	S48° 16' 52.35"E	0+00	0+07.07
L14			0.47	S48° 16' 52.35"E	0+07.07	0+07.53
L15			19.73	N45° 50' 06.60"E	0+07.53	0+27.26
C9	5.50	46° 17' 45"	4.44		0+27.26	0+31.71
L16			101.50	S87° 52' 10.14"E	0+31.71	1+33.21
L17			8.50	N2° 07' 49.86"E	1+33.21	1+41.71

STA BC-5 0+00 = STA M 0+43.83, 37.66 RT
 STA BC-5 1+41.71 = STA M 1+68.75, 18.0 RT

TOP OF PLANTER WALL ELEVATIONS			
##	ALIGNMENT, STA.	ELEVATION	COMMENT
1	BC-1 0+00.00	30.10	MATCH TOP BACK OF CURB
2	BC-1 0+00.62	30.44	WALL ANGLE POINT, PC
3	BC-1 0+02.98	30.45	PRC
4	BC-1 0+07.27	30.45	1/2 Δ
5	BC-1 0+11.56	30.45	PT
6	BC-1 0+18.37	30.45	AT STORM CROSSING
7	BC-1 0+60.48	30.70	AT CHECK DAM
8	BC-1 0+81.20	30.97	AT ANGLE POINT
9	BC-1 0+83.61	30.59	MATCH TOP BACK OF CURB
10	BC-2 40+08.65	31.07	MATCH TOP BACK OF CURB
11	BC-2 40+26.05	30.69	1/2 Δ
12	BC-2 40+43.45	30.53	PRC
13	BC-2 40+53.43	30.53	PT
14	BC-2 41+02.32	30.80	AT CHECK DAM
15	BC-2 41+25.04	31.03	WALL ANGLE POINT
16	BC-2 41+32.30	31.55	WALL ANGLE POINT
17	BC-2 41+41.12	32.03	END OF WALL
18	BC-5 0+00.00	30.27	MATCH TOP BACK OF CURB
19	BC-5 0+07.53	30.72	WALL ANGLE POINT
20	BC-5 0+27.26	30.51	PC
21	BC-5 0+31.71	30.48	PT
22	BC-5 0+45.20	30.46	
23	BC-5 0+66.98	30.55	AT OVER FLOW
24	BC-5 1+03.59	30.77	AT CHECK DAM
25	BC-5 1+33.21	31.17	WALL ANGLE POINT
26	BC-5 1+41.71	30.68	MATCH TOP BACK OF CURB

STORM STRUCTURE INFORMATION

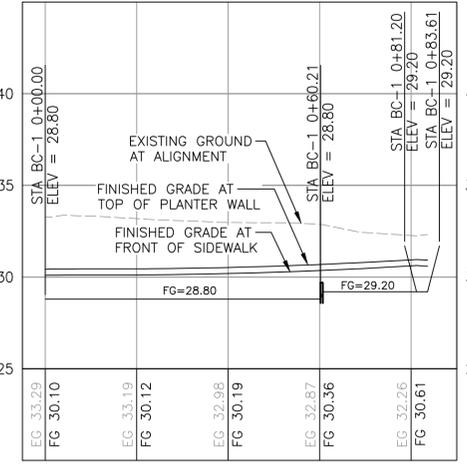
- CB1, TYPE 1 WITH STD. GRATE
 STA 0+45.1, 27.2 LT
 RIM=30.18
 IE 8" D.I. OUT, SW=27.75
- SDCB#2224
 RIM=29.73
 IE 8" CMP OUT, W=27.41
 IE 8" CONC. IN, E=27.48
- OF1
 STA 0+99.3, 19.7 LT
 RIM=29.30
 IE 6" OUT, N=28.70
- OF2
 STA 1+34.2, 19.7 LT
 RIM=29.30
 IE 6" OUT, N=28.70
- OF3
 STA 1+47.0, 19.7 LT
 RIM=29.70
 IE 6" OUT, N=29.10
- OF4
 STA 0+55.8, 34.9 RT
 RIM=29.40
 IE 6" OUT, SE=28.80
- OF5
 STA 1+02.5, 25.7 RT
 RIM=29.40
 IE 6" OUT, S=28.80
- OF6
 STA 1+59.4, 25.7 RT
 RIM=29.70
 IE 6" OUT, S=29.10

GENERAL NOTES

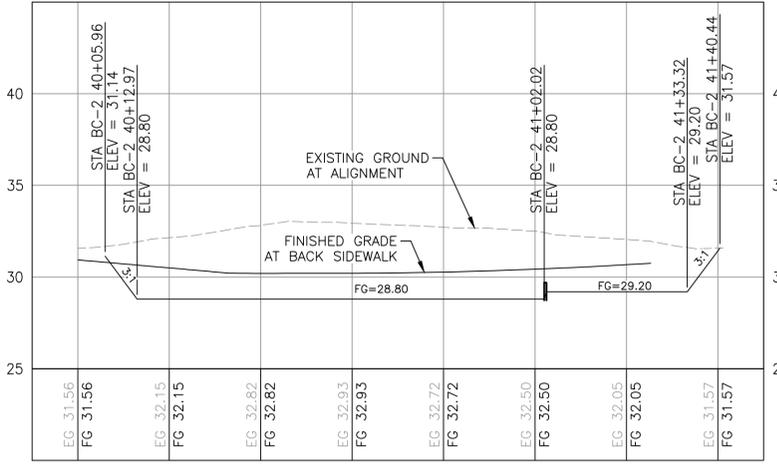
1. SEE ROADWAY SECTIONS FOR MATERIAL INFORMATION WITHIN BIORETENTION CELLS.
2. SEE ROADWAY AND UTILITY PLANS FOR SYSTEM LAYOUTS.
3. STATIONS AND OFFSETS FOR DRAINAGE STRUCTURES ARE TO CENTER OF STRUCTURE.
4. PIPE LENGTHS ARE MEASURED FROM CENTER OF CATCH BASIN TO CENTER OF CATCH BASIN AND INVERTS ARE SET AT CENTER OF CATCH BASIN.
5. CONTRACTOR SHALL POTHOLE TO DETERMINE DEPTH OF AND TO PROTECT ALL BURIED UTILITIES, AS NECESSARY. IF CONFLICT ARISES, CONTRACTOR SHALL COORDINATE WITH ENGINEER AND UTILITY COMPANIES FOR COURSE OF ACTION.

DRAINAGE CONSTRUCTION NOTES

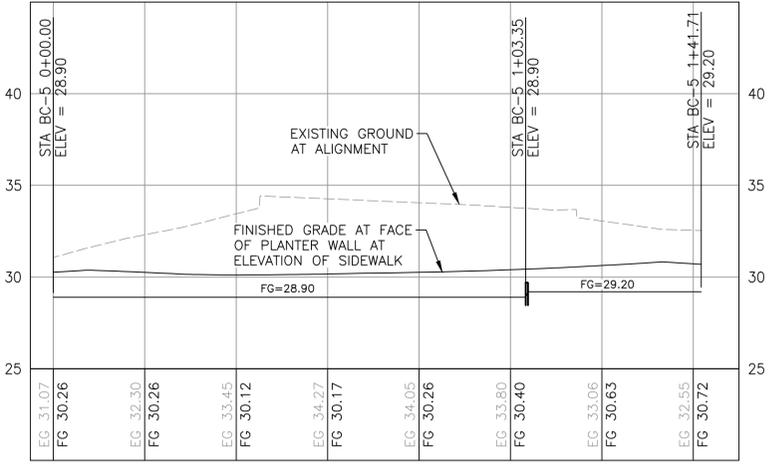
1. INSTALL CATCH BASIN TYPE 1 OR TYPE 1L PER WSDOT STANDARD PLAN B-5.20-03 OR B-5.40-02. INSTALL VANED GRATE PER WSDOT STANDARD PLAN B-30.30-03 AND RECTANGULAR FRAME PER WSDOT STANDARD PLAN B-30.10-03.
2. INSTALL STORM DRAIN PIPE PER WSDOT STANDARD PLAN B-55.20-03. SLOPE EQUALS 1% UNLESS NOTED OTHERWISE.
3. INSTALL OUTLET PROTECTION PER DETAIL 8/DT1.
4. CONSTRUCT BIORETENTION SYSTEM PER DETAIL 1/SM3.
5. INSTALL ROUND OVERFLOW CATCH BASIN WITH FLOW CONTROL WEIR PER DETAIL X/SM3.
6. INSTALL OVERFLOW DRAIN WITH ATRIUM GRATE, DRAIN PIPE THROUGH PLANTER WALL OR UNDER DRIVEWAY, AND OUTLET PROTECTION AT BASE OF PLANTER PER DETAIL 3/SM3.
7. CONSTRUCT CURB SCUPPER THROUGH PLANTER WALL AND OUTLET PROTECTION AT BASE OF PLANTER WALL PER DETAIL 5/SM3.
8. REPLACE EXISTING GRATE WITH SOLID METAL COVER PER WSDOT STANDARD PLAN B-30.20-04.
9. RESET EXISTING FRAME AND GRATE AND RIM TO CURB ORIENTATION AND FINAL PAVEMENT ELEVATION.
10. CONSTRUCT CONCRETE CHECK DAM PER DETAIL 4/SM3.
11. CONSTRUCT INFILTRATION SYSTEM PER DETAIL 2/SM3.



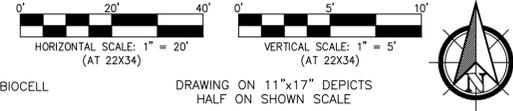
BC-1 PROFILE



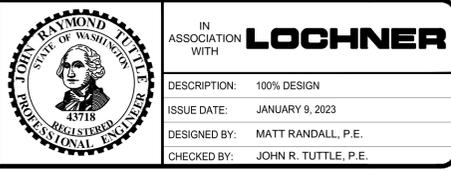
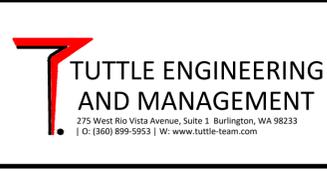
BC-2 PROFILE



BC-5 PROFILE



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



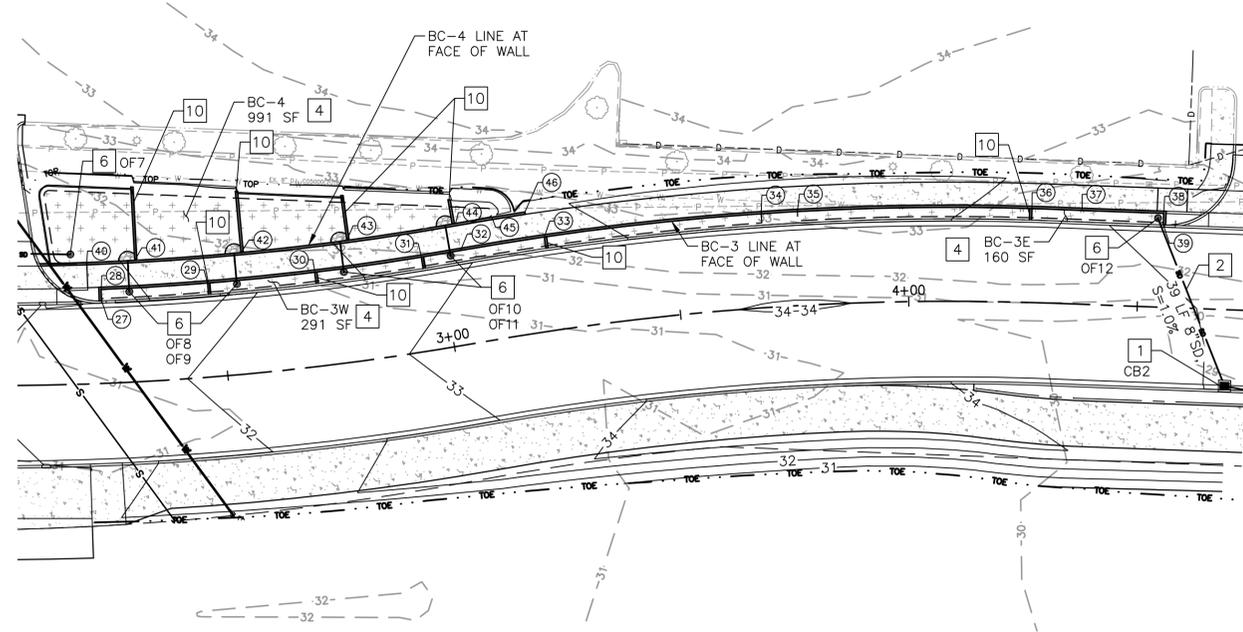
CITY OF BURLINGTON EAST-WEST CONNECTOR

STORMWATER MANAGEMENT PLAN AND PROFILE

SM1

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-08-SHEET-SD.dwg - SM2 - Rendell, Matt - 1/24/2023 6:26 PM



STORM STRUCTURE INFORMATION

CB2, TYPE 1 WITH STD. GRATE
 STA 4+69.7, 16.7 RT
 RIM=32.95
 IE 8" OUT, SW=30.24
 IE 8" IN, N=30.24

OF7
 STA 2+16.3, 28.4 LT
 RIM=31.10
 IE 6" OUT, W=29.70

OF8
 STA 2+29.4, 19.7 LT
 RIM=31.15
 IE 6" OUT, N=30.55

OF9
 STA 2+53.8, 19.7 LT
 RIM=31.65
 IE 6" OUT, N=31.05

OF10
 STA 2+78.2, 19.7 LT
 RIM=32.15
 IE 6" OUT, N=31.55

OF11
 STA 3+02.5, 19.7 LT
 RIM=32.65
 IE 6" OUT, N=32.05

OF12
 STA 4+53.8, 19.4 LT
 RIM=32.59
 IE 8" OUT, S=30.63

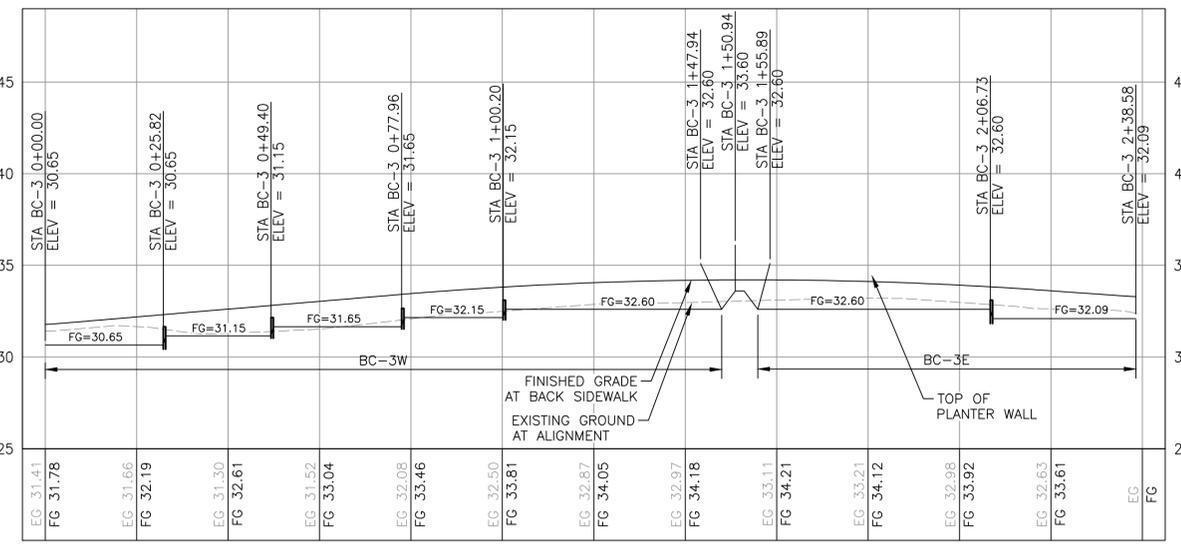
BC-3						
NUMBER	RADIUS	DELTA	LENGTH	TANGENT	START STA.	END STA.
L9			2.50	N2° 22' 52.36"W	0+00	0+02.50
C5	585.00	7° 44' 56"	79.12		0+02.50	0+81.62
C6	615.00	12° 43' 24"	136.57		0+81.62	2+18.19
L10			17.90	S87° 53' 11.67"E	2+18.19	2+36.09
L11			2.50	S2° 06' 24.50"W	2+36.09	2+38.59

STA BC-3 0+00.00 = STA M 2+23.06, 18.0 LT
 STA BC-3 2+38.59 = STA M 4+55.05, 18.0 LT

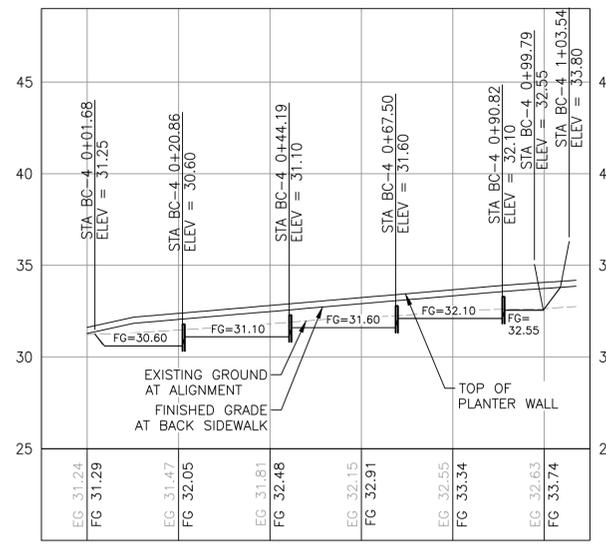
BC-4						
NUMBER	RADIUS	DELTA	LENGTH	TANGENT	START STA.	END STA.
C17	579.00	9° 03' 43"	91.57		-0+00	0+91.57
C18	621.00	1° 25' 06"	15.37		0+91.57	1+06.95

STA BC-4 0+00.00 = STA M 2+09.17, 26.50 LT
 STA BC-2 1+05.95 = STA M 3+19.65, 26.50 LT

TOP OF PLANTER WALL ELEVATIONS			
##	ALIGNMENT, STA.	ELEVATION	COMMENT
27	BC-3 0+00.00	31.78	MATCH TOP BACK OF CURB
28	BC-3 0+02.50	32.16	WALL ANGLE POINT
29	BC-3 0+26.08	32.66	AT CHECK DAM
30	BC-3 0+49.66	33.16	AT CHECK DAM
31	BC-3 0+73.22	33.66	AT CHECK DAM
32	BC-3 0+81.62	33.83	PRC
33	BC-3 1+00.45	34.16	AT CHECK DAM
34	BC-3 1+47.94	34.55	END OF BC-3W
35	BC-3 1+55.89	34.55	BEGINNING OF BC-3E
36	BC-3 2+06.97	34.16	AT CHECK DAM
37	BC-3 2+18.19	33.98	PT
38	BC-3 2+36.09	33.67	WALL ANGLE POINT
39	BC-3 2+38.59	33.29	MATCH TOP BACK OF CURB
40	BC-4 0+10.37	32.16	AT TOP OF ADA RAMP
41	BC-4 0+21.09	32.40	AT CHECK DAM
42	BC-4 0+44.45	32.90	AT CHECK DAM
43	BC-4 0+67.76	33.40	AT CHECK DAM
44	BC-4 0+91.57	33.90	PRC
45	BC-4 0+99.19	34.05	
46	BC-4 1+06.80	34.18	END OF WALL

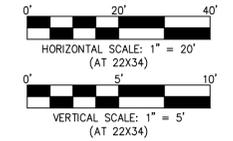


BC-3 PROFILE



BC-4 PROFILE

- DRAINAGE CONSTRUCTION NOTES**
- INSTALL CATCH BASIN TYPE 1 OR TYPE 1L PER WSDOT STANDARD PLAN B-5.20-03 OR B-5.40-02. INSTALL VANED GRATE PER WSDOT STANDARD PLAN B-30.30-03 AND RECTANGULAR FRAME PER WSDOT STANDARD PLAN B-30.10-03.
 - INSTALL STORM DRAIN PIPE PER WSDOT STANDARD PLAN B-55.20-03. SLOPE EQUALS 1% UNLESS NOTED OTHERWISE.
 - INSTALL OUTLET PROTECTION PER DETAIL 8/DT1.
 - CONSTRUCT BIORETENTION SYSTEM PER DETAIL 1/SM3.
 - INSTALL ROUND OVERFLOW CATCH BASIN WITH FLOW CONTROL WEIR PER DETAIL X/SM3.
 - INSTALL OVERFLOW DRAIN WITH ATRIUM GRATE, DRAIN PIPE THROUGH PLANTER WALL OR UNDER DRIVEWAY, AND OUTLET PROTECTION AT BASE OF PLANTER PER DETAIL 3/SM3.
 - CONSTRUCT CURB SCUPPER THROUGH PLANTER WALL AND OUTLET PROTECTION AT BASE OF PLANTER WALL PER DETAIL 5/SM3.
 - REPLACE EXISTING GRATE WITH SOLID METAL COVER PER WSDOT STANDARD PLAN B-30.20-04.
 - RESET EXISTING FRAME AND GRATE AND RIM TO CURB ORIENTATION AND FINAL PAVEMENT ELEVATION.
 - CONSTRUCT CONCRETE CHECK DAM PER DETAIL 4/SM3.
 - CONSTRUCT INFILTRATION SYSTEM PER DETAIL 2/SM3.



BC = BIOCELL

DRAWING ON 11"x17" DEPICTS HALF ON SHOWN SCALE

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: MATT RANDALL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

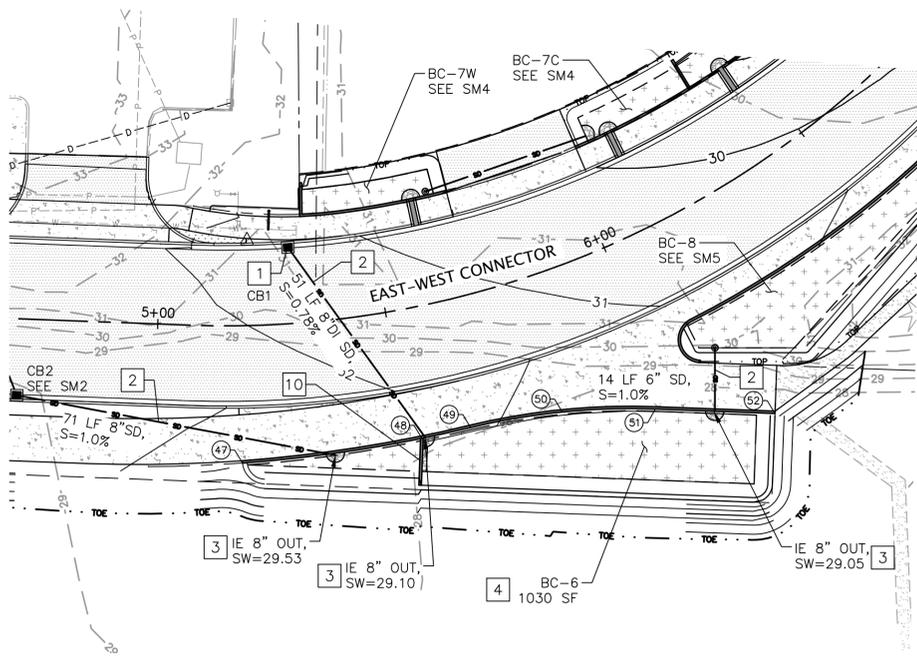
SM2

STORMWATER MANAGEMENT PLAN AND PROFILE

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-08-SHEET-SD.dwg - SM3 - Randall, Matt - 1/24/2023 6:37 PM

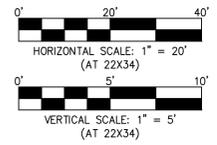
TOP OF PLANTER WALL ELEVATIONS

##	ALIGNMENT, STA.	ELEVATION	COMMENT
47	BC-6 30+20.62	33.13	BEGIN WALL
48	BC-6 30+60.25	32.61	AT CHECK DAM
49	BC-6 30+71.17	32.44	PRC
50	BC-6 30+91.56	32.15	1/2 Δ
51	BC-6 31+11.95	31.96	PT
52	BC-6 31+38.11	31.83	END OF WALL



DRAINAGE CONSTRUCTION NOTES

- INSTALL CATCH BASIN TYPE 1 OR TYPE 1L PER WSDOT STANDARD PLAN B-5.20-03 OR B-5.40-02. INSTALL VANED GRATE PER WSDOT STANDARD PLAN B-30.30-03 AND RECTANGULAR FRAME PER WSDOT STANDARD PLAN B-30.10-03.
- INSTALL STORM DRAIN PIPE PER WSDOT STANDARD PLAN B-55.20-03. SLOPE EQUALS 1% UNLESS NOTED OTHERWISE.
- INSTALL OUTLET PROTECTION PER DETAIL 8/DT1.
- CONSTRUCT BIORETENTION SYSTEM PER DETAIL 1/SM3.
- INSTALL ROUND OVERFLOW CATCH BASIN WITH FLOW CONTROL WEIR PER DETAIL X/SM3.
- INSTALL OVERFLOW DRAIN WITH ATRIM GRATE, DRAIN PIPE THROUGH PLANTER WALL OR UNDER DRIVEWAY, AND OUTLET PROTECTION AT BASE OF PLANTER PER DETAIL 3/SM3.
- CONSTRUCT CURB SCUPPER THROUGH PLANTER WALL AND OUTLET PROTECTION AT BASE OF PLANTER WALL PER DETAIL 5/SM3.
- REPLACE EXISTING GRATE WITH SOLID METAL COVER PER WSDOT STANDARD PLAN B-30.20-04.
- RESET EXISTING FRAME AND GRATE AND RIM TO CURB ORIENTATION AND FINAL PAVEMENT ELEVATION.
- CONSTRUCT CONCRETE CHECK DAM PER DETAIL 4/SM3.
- CONSTRUCT INFILTRATION SYSTEM PER DETAIL 2/SM3.



BC = BIOCELL

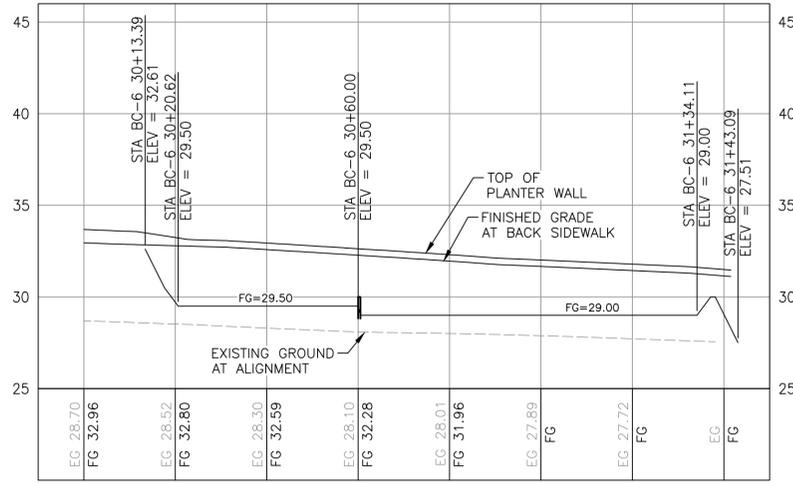
DRAWING ON 11"x17" DEPICTS HALF ON SHOWN SCALE

STORM STRUCTURE INFORMATION

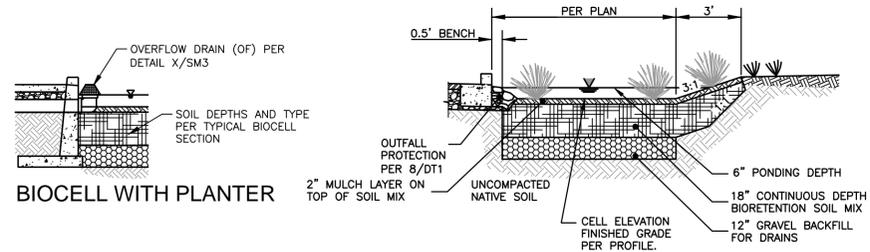
CB3, TYPE 1 WITH STD. GRATE
 STA 5+29.6, 16.7 LT
 RIM=31.31
 IE 8" OUT, SW=29.50

BC-6						
NUMBER	RADIUS	DELTA	LENGTH	TANGENT	START STA.	END STA.
C10	306.12	13° 19' 12"	71.17		30+00	30+71.17
C11	149.50	15° 37' 45"	40.78		30+71.17	31+11.95
L18			26.17	S87° 52' 10.14"E	31+11.95	31+38.11

STA BC-6 30+00.00 = STA M 5+18.08, 30.0 RT
 STA BC-6 31+38.11 = STA M 6+16.21, 48.79 RT

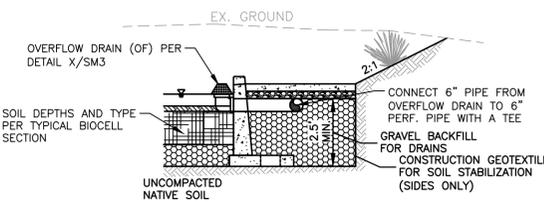


BC-6 PROFILE

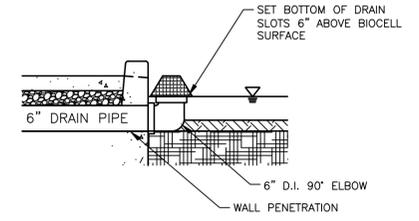


TYPICAL BIOCELL SECTION

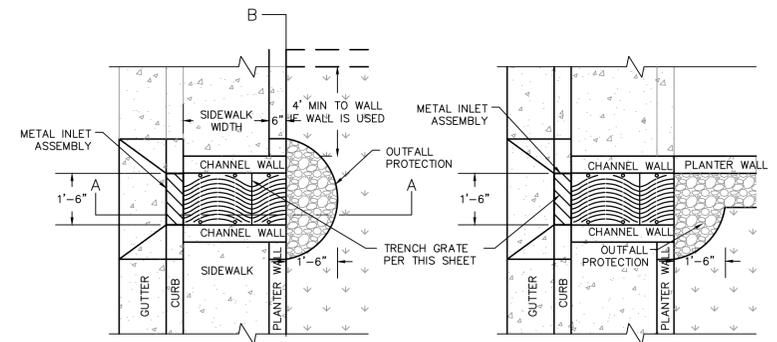
TYPICAL BIORETENTION SYSTEM SECTION 1 NTS



INFILTRATION SYSTEM (IN-1) NTS 2

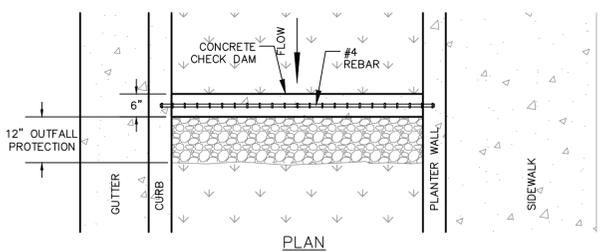


OVERFLOW DRAIN DETAIL 3 NTS

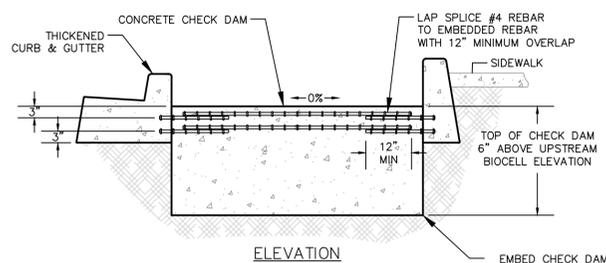


PLAN A

PLAN B, AT SIDE WALL



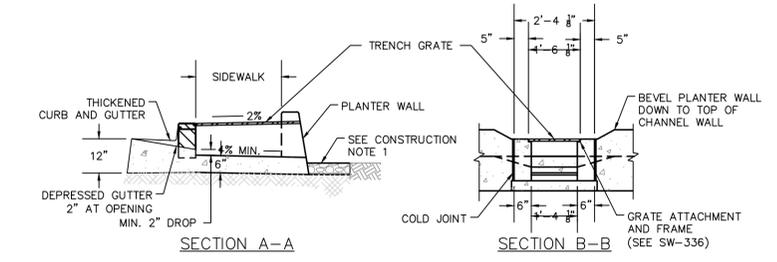
PLAN



ELEVATION

- CONSTRUCTION NOTE
- CONCRETE TO BE 3,000 PSI.
 - EMBED #4 REBAR 3" INTO CURB AND PLANTER WALL.

CONCRETE CHECK DAM DETAIL 4 NTS



SECTION A-A

SECTION B-B

- CONSTRUCTION NOTES:
- OUTFALL PROTECTION SHALL BE QUARRY SPALLS PER WSDOT SPECIFICATION 9-13.1(5).
 - OUTFALL PROTECTION SHALL BE 12" WIDER THAN CHANNEL OPENING ON BOTH SIDES.

CURB SCUPPER DETAIL 5 NTS

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

 SKAGIT COUNTY, WASHINGTON INCORPORATED 1922
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 P.O. (360) 899-5953 | W: www.tuttle-team.com

IN ASSOCIATION WITH

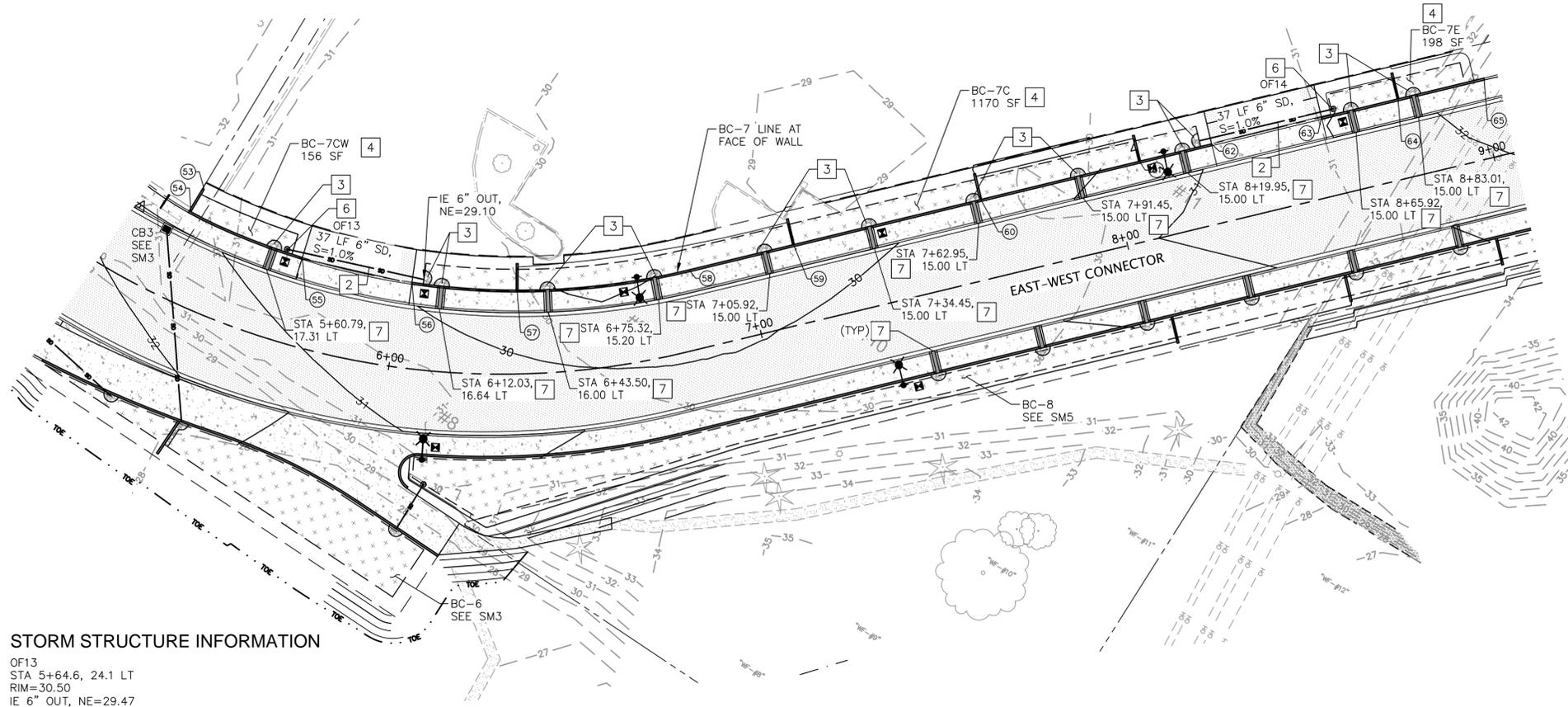
 DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: MATT RANDALL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
 STORMWATER MANAGEMENT
 PLAN AND PROFILE

SM3

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\00016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-08-SHEET-SD.dwg - SM4 - Randall, Matt - 1/24/2023 6:48 PM



STORM STRUCTURE INFORMATION

OF13
 STA 5+64.6, 24.1 LT
 RIM=30.50
 IE 6" OUT, NE=29.47

OF14
 STA 8+61.5, 22.4 LT
 RIM=31.35
 IE 6" OUT, SW=30.56

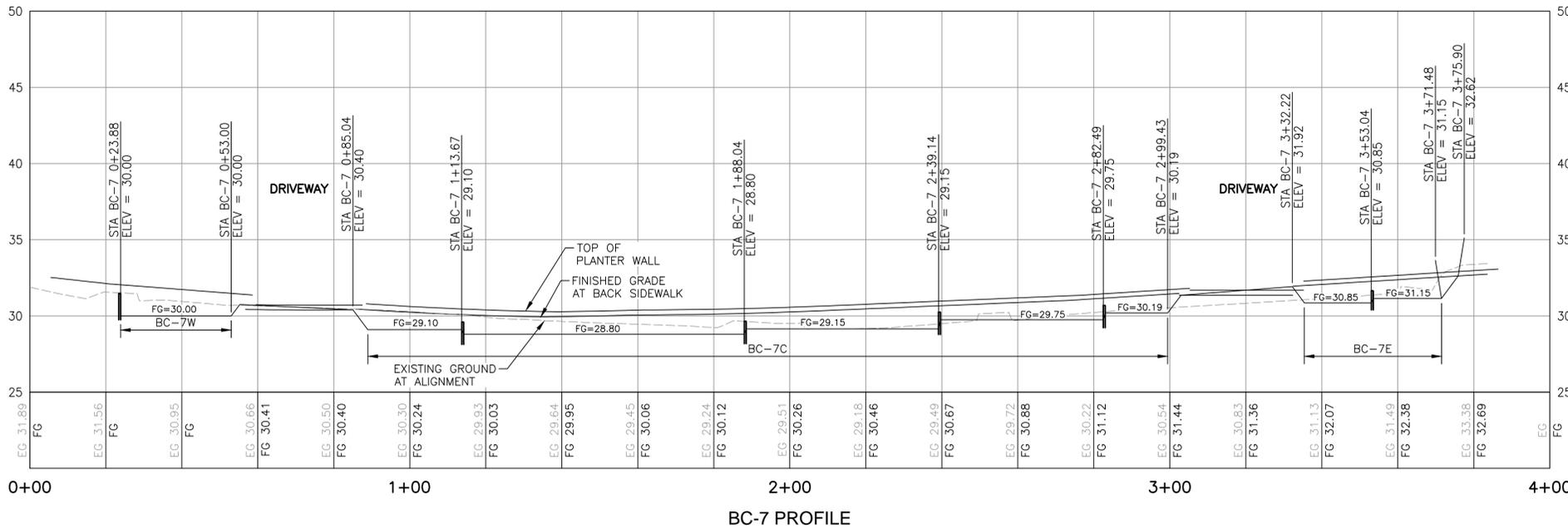
TOP OF PLANTER WALL ELEVATIONS

##	ALIGNMENT, STA.	ELEVATION	COMMENT
53	BC-7 0+24.13	31.75	BEGIN WEST WALL
54	BC-7 0+23.85	31.99	WALL ANGLE POINT, PC
55	BC-7 0+55.87	31.36	END WEST WALL
56	BC-7 0+85.71	30.79	BEGIN CENTER WALL
57	BC-7 1+13.69	30.43	AT CHECK DAM
58	BC-7 1+59.78	30.39	PT
59	BC-7 1+88.25	30.51	AT CHECK DAM
60	BC-7 2+39.38	31.00	AT CHECK DAM
61	BC-7 2+82.74	31.50	AT CHECK DAM
62	BC-7 3+02.42	31.82	END CENTER WALL
63	BC-7 3+32.42	32.29	BEGIN EAST WALL
64	BC-7 3+53.30	32.61	AT CHECK DAM
65	BC-7 3+76.77	32.98	END EAST WALL

BC-7

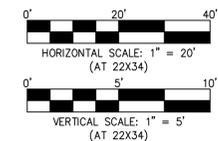
NUMBER	RADIUS	DELTA	LENGTH	TANGENT	START STA.	END STA.
C12	93.88	2' 43' 10"	4.46		0+00	0+04.46
C13	94.94	17' 05' 05"	28.31		0+04.46	0+32.76
C14	194.00	37' 30' 51"	127.02		0+32.76	1+59.78
L19			211.72	N44° 57' 05.86"E	1+59.78	3+71.50
L20			12.07	N44° 45' 17.39"E	3+71.50	3+83.57

STA BC-3 0+00.00 = STA M 2+23.06, 18.0 LT
 STA BC-3 2+38.59 = STA M 4+55.05, 18.0 LT



DRAINAGE CONSTRUCTION NOTES

- INSTALL CATCH BASIN TYPE 1 OR TYPE 1L PER WSDOT STANDARD PLAN B-5.20-03 OR B-5.40-02. INSTALL VANED GRATE PER WSDOT STANDARD PLAN B-30.30-03 AND RECTANGULAR FRAME PER WSDOT STANDARD PLAN B-30.10-03.
- INSTALL STORM DRAIN PIPE PER WSDOT STANDARD PLAN B-5.20-03. SLOPE EQUALS 1% UNLESS NOTED OTHERWISE.
- INSTALL OUTLET PROTECTION PER DETAIL 8/DT1.
- CONSTRUCT BIORETENTION SYSTEM PER DETAIL 1/SM3.
- INSTALL ROUND OVERFLOW CATCH BASIN WITH FLOW CONTROL WEIR PER DETAIL X/SM3.
- INSTALL OVERFLOW DRAIN WITH ATRIUM GRATE, DRAIN PIPE THROUGH PLANTER WALL OR UNDER DRIVEWAY, AND OUTLET PROTECTION AT BASE OF PLANTER PER DETAIL 3/SM3.
- CONSTRUCT CURB SCUPPER THROUGH PLANTER WALL AND OUTLET PROTECTION AT BASE OF PLANTER WALL PER DETAIL 5/SM3.
- REPLACE EXISTING GRATE WITH SOLID METAL COVER PER WSDOT STANDARD PLAN B-30.20-04.
- RESET EXISTING FRAME AND GRATE AND RIM TO CURB ORIENTATION AND FINAL PAVEMENT ELEVATION.
- CONSTRUCT CONCRETE CHECK DAM PER DETAIL 4/SM3.
- CONSTRUCT INFILTRATION SYSTEM PER DETAIL 2/SM3.



BC = BIOCELL

DRAWING ON 11"x17" DEPICTS HALF ON SHOWN SCALE



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: MATT RANDALL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

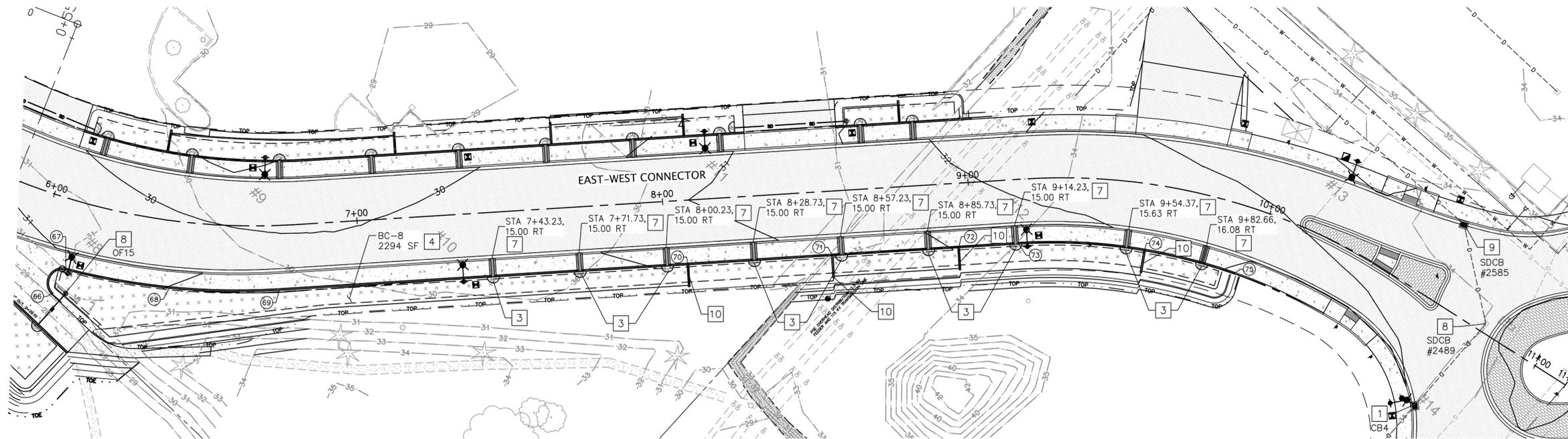
CITY OF BURLINGTON EAST-WEST CONNECTOR

STORMWATER MANAGEMENT PLAN AND PROFILE

SM4

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-08-SHEET-SD.dwg - SM5 - Randall, Matt - 1/24/2023 9:56 PM



STORM STRUCTURE INFORMATION

OF15
 STA 6+11.9, 30.0 RT
 RIM=30.15
 IE 6" OUT, NE=29.19

CB4
 STA
 RIM=33.04
 IE 12" OUT, S=30.79
 IE 12" IN, N=30.79

SDCB #2585
 RIM=33.25
 IE 12" OUT, SE=31.08
 IE 12" IN, W=31.16

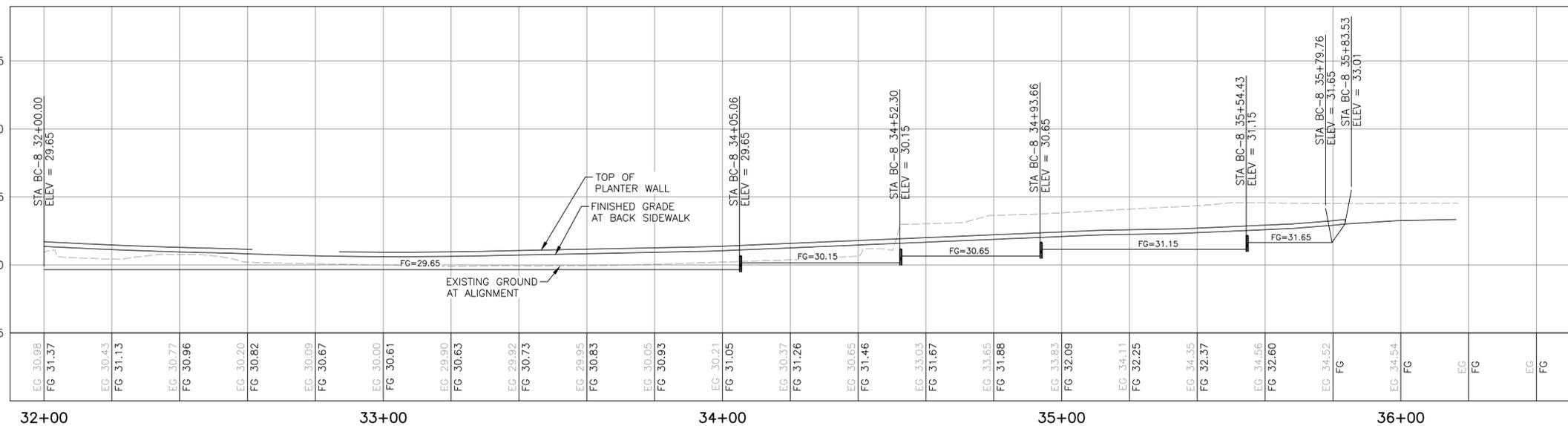
SDCB #2489
 RIM=33.65
 IE 12" OUT, S=30.94
 IE 12" IN, NW=30.96

BC-8						
NUMBER	RADIUS	DELTA	LENGTH	TANGENT	START STA.	END STA.
C15	224.00	18° 18' 34"	71.58		32+00	32+71.58
L24			241.97	N44° 57' 05.86"E	32+71.58	35+13.56
C16	179.00	33° 05' 32"	103.38		35+13.56	36+16.94

STA BC-8 32+00.00 = STA M 6+09.03, 22.6 RT
 STA BC-8 36+17.08 = STA M 9+94.95, 22.3 RT

TOP OF PLANTER WALL ELEVATIONS

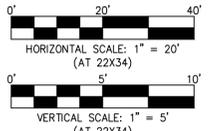
##	ALIGNMENT, STA.	ELEVATION	COMMENT
66	BC-8 xx+xx.xx	31.85	BEGIN WALL, PC
67	BC-8 32+01.22	31.69	PRC
68	BC-8 32+36.40	31.32	1/2 Δ
69	BC-8 32+71.58	31.06	PT
70	BC-8 34+05.32	31.44	AT CHECK DAM
71	BC-8 34+52.55	31.94	AT CHECK DAM
72	BC-8 34+93.91	32.37	AT CHECK DAM
73	BC-8 35+13.56	32.56	PC
74	BC-8 35+54.83	32.88	AT CHECK DAM
75	BC-8 35+85.01	33.37	END WALL, PT



BC-6 PROFILE

DRAINAGE CONSTRUCTION NOTES

- INSTALL CATCH BASIN TYPE 1 OR TYPE 1L PER WSDOT STANDARD PLAN B-5.20-03 OR B-5.40-02. INSTALL VANED GRATE PER WSDOT STANDARD PLAN B-30.30-03 AND RECTANGULAR FRAME PER WSDOT STANDARD PLAN B-30.10-03.
- INSTALL STORM DRAIN PIPE PER WSDOT STANDARD PLAN B-55.20-03. SLOPE EQUALS 1% UNLESS NOTED OTHERWISE.
- INSTALL OUTLET PROTECTION PER DETAIL 8/DT1.
- CONSTRUCT BIORETENTION SYSTEM PER DETAIL 1/SM3.
- INSTALL ROUND OVERFLOW CATCH BASIN WITH FLOW CONTROL WEIR PER DETAIL X/SM3.
- INSTALL OVERFLOW DRAIN WITH ATRIUM GRATE, DRAIN PIPE THROUGH PLANTER WALL OR UNDER DRIVEWAY, AND OUTLET PROTECTION AT BASE OF PLANTER PER DETAIL 3/SM3.
- CONSTRUCT CURB SCUPPER THROUGH PLANTER WALL AND OUTLET PROTECTION AT BASE OF PLANTER WALL PER DETAIL 5/SM3.
- REPLACE EXISTING GRATE WITH SOLID METAL COVER PER WSDOT STANDARD PLAN B-30.20-04.
- RESET EXISTING FRAME AND GRATE AND RIM TO CURB ORIENTATION AND FINAL PAVEMENT ELEVATION.
- CONSTRUCT CONCRETE CHECK DAM PER DETAIL 4/SM3.
- CONSTRUCT INFILTRATION SYSTEM PER DETAIL 2/SM3.



BC = BIOCELL

DRAWING ON 11"x17" DEPICTS HALF ON SHOWN SCALE



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

 SKAGIT COUNTY, WASHINGTON INCORPORATED 1922
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | P: (360) 899-5953 | W: www.tuttle-team.com



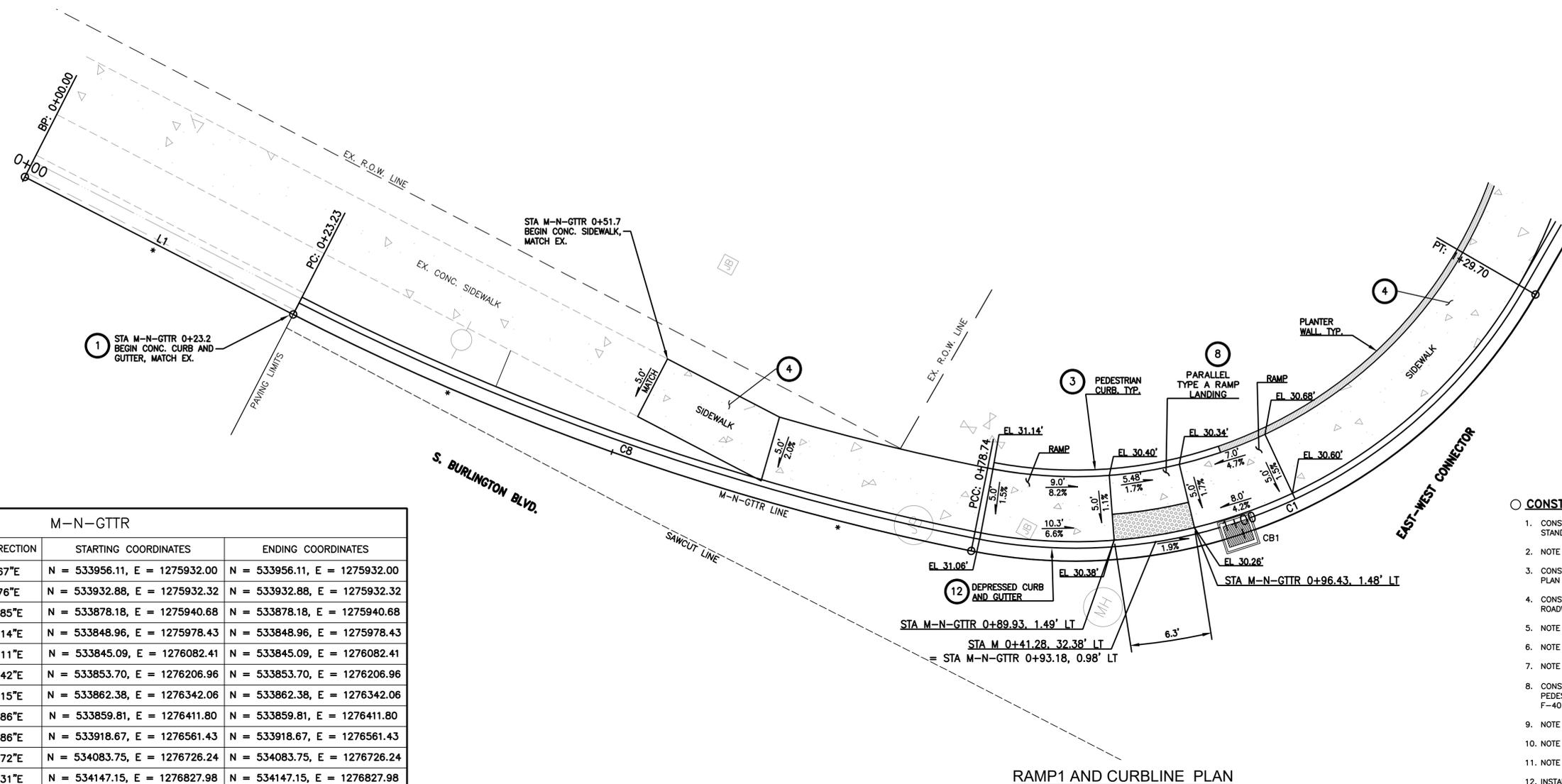
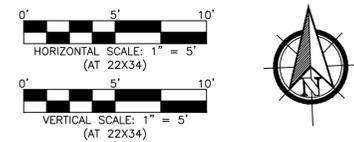
IN ASSOCIATION WITH
LOCHNER
 DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: MATT RANDALL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
 STORMWATER MANAGEMENT
 PLAN AND PROFILE

SM5

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task_Order_17_E-W_Connector\7_Engineering\CADD\Plans\09-SHEET-RD.dwg - RD1 - Bull, Gage - 1/25/2023 1:20 PM

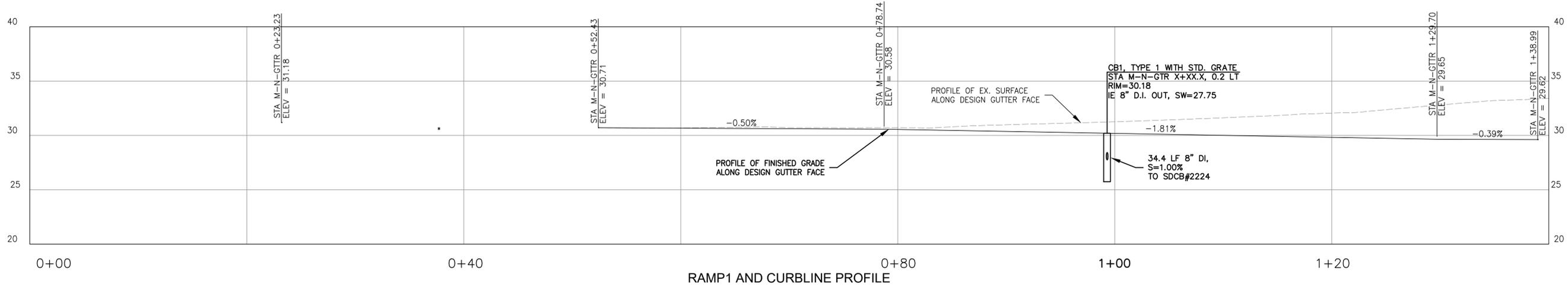


CURBLINE GRADING NOTE
 * CONTRACTOR TO FIELD-IDENTIFY THE GRADES OF THE EXISTING FACE OF GUTTER, THEN INSTALL NEW CONC. CURB AND GUTTER TO SLOPES MATCHING THESE GRADES TO MAINTAIN EXISTING FLOW PATTERNS.

- CONSTRUCTION NOTES**
1. CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER STANDARD PLAN F-10.12-04.
 2. NOTE NOT USED ON THIS SHEET.
 3. CONSTRUCT CEMENT CONC. PEDESTRIAN CURB PER STANDARD PLAN F-10.12-04.
 4. CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND STANDARD PLAN F-30.10-04.
 5. NOTE NOT USED ON THIS SHEET.
 6. NOTE NOT USED ON THIS SHEET.
 7. NOTE NOT USED ON THIS SHEET.
 8. CONSTRUCT CEMENT CONC. PARALLEL CURB RAMP (TYPE A) WITH PEDESTRIAN CEMENT CONC. CURB PER STANDARD PLANS F-40.12-03 AND F-45.10-03.
 9. NOTE NOT USED ON THIS SHEET.
 10. NOTE NOT USED ON THIS SHEET.
 11. NOTE NOT USED ON THIS SHEET.
 12. INSTALL DEPRESSED CEMENT CONC. CURB AND GUTTER SECTION PER STANDARD PLAN F-10.12-04.
 13. ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE.
 14. NOTE NOT USED ON THIS SHEET.

M-N-GTTR					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L1		23.23	S0° 46' 47.67"E	N = 533956.11, E = 1275932.00	N = 533956.11, E = 1275932.00
C8	201.00	55.51	S8° 41' 26.76"E	N = 533932.88, E = 1275932.32	N = 533932.88, E = 1275932.32
C1	41.00	50.96	S52° 15' 38.85"E	N = 533878.18, E = 1275940.68	N = 533878.18, E = 1275940.68
L2		104.05	S87° 52' 10.14"E	N = 533848.96, E = 1275978.43	N = 533848.96, E = 1275978.43
C2	589.00	125.08	N86° 02' 48.11"E	N = 533845.09, E = 1276082.41	N = 533845.09, E = 1276082.41
C3	611.00	135.66	N86° 19' 24.42"E	N = 533853.70, E = 1276206.96	N = 533853.70, E = 1276206.96
L3		69.78	S87° 53' 34.15"E	N = 533862.38, E = 1276342.06	N = 533862.38, E = 1276342.06
C4	201.00	165.43	N68° 31' 45.86"E	N = 533859.81, E = 1276411.80	N = 533859.81, E = 1276411.80
L4		233.27	N44° 57' 05.86"E	N = 533918.67, E = 1276561.43	N = 533918.67, E = 1276561.43
C5	264.00	120.93	N58° 04' 27.72"E	N = 534083.75, E = 1276726.24	N = 534083.75, E = 1276726.24
C6	236.00	35.80	N66° 51' 05.31"E	N = 534147.15, E = 1276827.98	N = 534147.15, E = 1276827.98
C7	56.00	34.01	N45° 06' 33.05"E	N = 534161.21, E = 1276860.87	N = 534161.21, E = 1276860.87
C9	86.00	51.37	N10° 35' 55.77"E	N = 534184.84, E = 1276884.59	N = 534184.84, E = 1276884.59
C10	511.00	64.23	N2° 54' 50.81"W	N = 534234.59, E = 1276893.90	N = 534234.59, E = 1276893.90

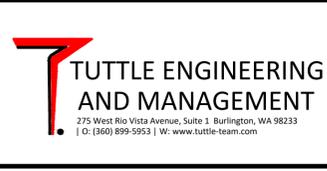
RAMP1 AND CURBLINE PLAN



RAMP1 AND CURBLINE PROFILE

LEGEND
 LENGTH
 SLOPE

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: CHRIS NEAL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

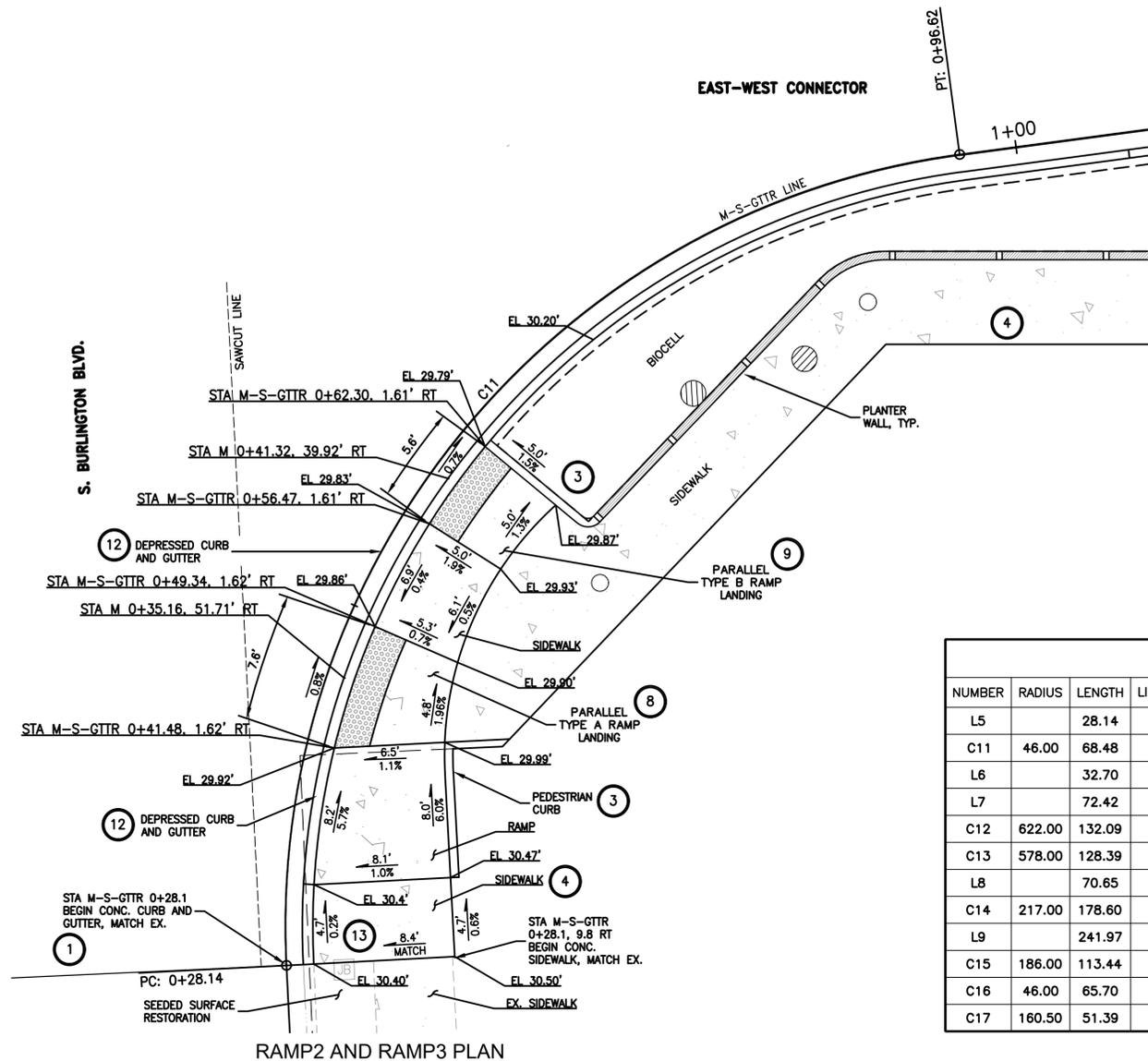
CITY OF BURLINGTON EAST-WEST CONNECTOR

ROADWAY DETAILS

RD1

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

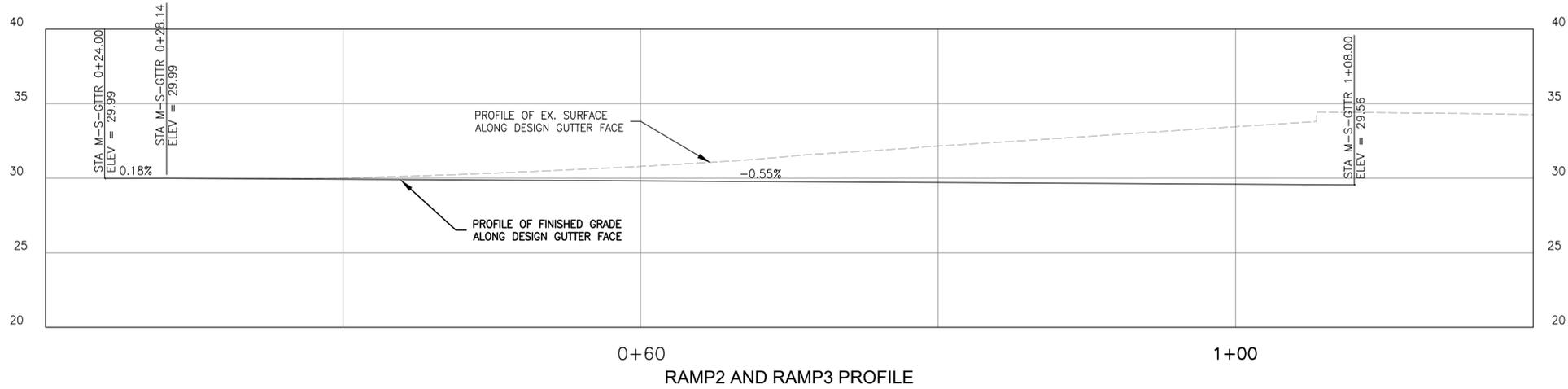
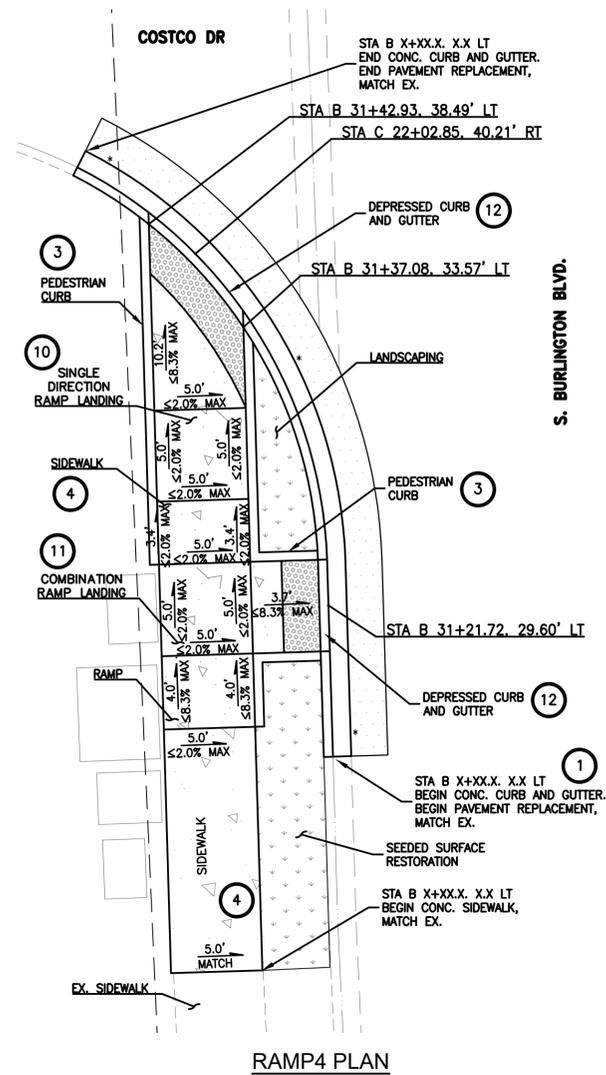
I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\09-SHEET-RD.dwg - RD2 - Bull, Gage - 1/25/2023 2:27 PM



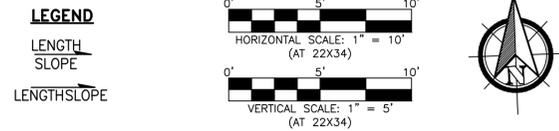
CONSTRUCTION NOTES

1. CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER STANDARD PLAN F-10.12-04.
2. NOTE NOT ON THIS SHEET.
3. CONSTRUCT CEMENT CONC. PEDESTRIAN CURB PER STANDARD PLAN F-10.12-04.
4. CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND STANDARD PLAN F-30.10-04.
5. NOTE NOT ON THIS SHEET.
6. NOTE NOT ON THIS SHEET.
7. NOTE NOT ON THIS SHEET.
8. NOTE NOT ON THIS SHEET.
9. CONSTRUCT CEMENT CONC. PARALLEL CURB RAMP (TYPE B) WITH PEDESTRIAN CEMENT CONC. CURB PER STANDARD PLANS F-40.12-03 AND F-45.10-03.
10. NOTE NOT ON THIS SHEET.
11. NOTE NOT ON THIS SHEET.
12. INSTALL DEPRESSED CEMENT CONC. CURB AND GUTTER SECTION PER STANDARD PLAN F-10.12-04.
13. ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE.
14. NOTE NOT ON THIS SHEET.

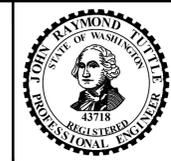
M-S-GTTR						
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES	
L5		28.14	N0° 42' 50.77"W	N = 533737.15, E = 1275935.00	N = 533737.15, E = 1275935.00	
C11	46.00	68.48	N41° 53' 05.34"E	N = 533765.29, E = 1275934.64	N = 533765.29, E = 1275934.64	
L6		32.70	N84° 32' 09.15"E	N = 533811.69, E = 1275976.26	N = 533811.69, E = 1275976.26	
L7		72.42	S87° 52' 10.14"E	N = 533814.81, E = 1276008.81	N = 533814.81, E = 1276008.81	
C12	622.00	132.09	N86° 02' 48.11"E	N = 533812.11, E = 1276081.18	N = 533812.11, E = 1276081.18	
C13	578.00	128.39	N86° 19' 34.24"E	N = 533821.20, E = 1276212.71	N = 533821.20, E = 1276212.71	
L8		70.65	S87° 53' 30.88"E	N = 533829.41, E = 1276340.57	N = 533829.41, E = 1276340.57	
C14	217.00	178.60	N68° 31' 47.49"E	N = 533826.81, E = 1276411.18	N = 533826.81, E = 1276411.18	
L9		241.97	N44° 57' 05.86"E	N = 533890.36, E = 1276572.73	N = 533890.36, E = 1276572.73	
C15	186.00	113.44	N62° 25' 26.92"E	N = 534061.60, E = 1276743.69	N = 534061.60, E = 1276743.69	
C16	46.00	65.70	S59° 11' 07.83"E	N = 534113.31, E = 1276842.69	N = 534113.31, E = 1276842.69	
C17	160.50	51.39	S9° 05' 43.95"E	N = 534082.44, E = 1276894.44	N = 534082.44, E = 1276894.44	



CURBLINE GRADING NOTE
 * CONTRACTOR TO FIELD-IDENTIFY THE GRADES OF THE EXISTING FACE OF GUTTER, THEN INSTALL NEW CONC. CURB AND GUTTER TO SLOPES MATCHING THESE GRADES TO MAINTAIN EXISTING FLOW PATTERNS.



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: CHRIS NEAL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

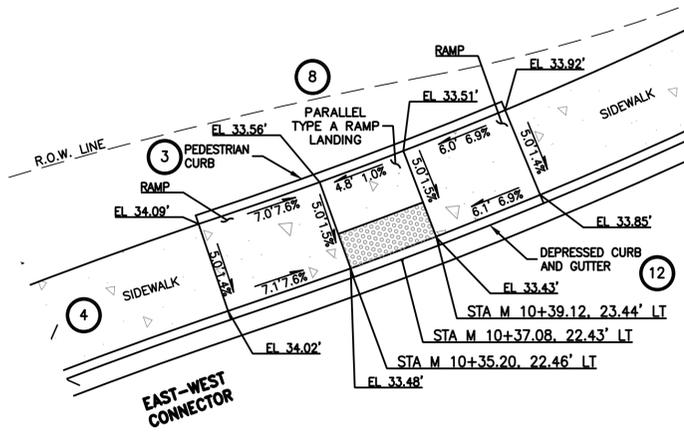
CITY OF BURLINGTON EAST-WEST CONNECTOR

ROADWAY DETAILS

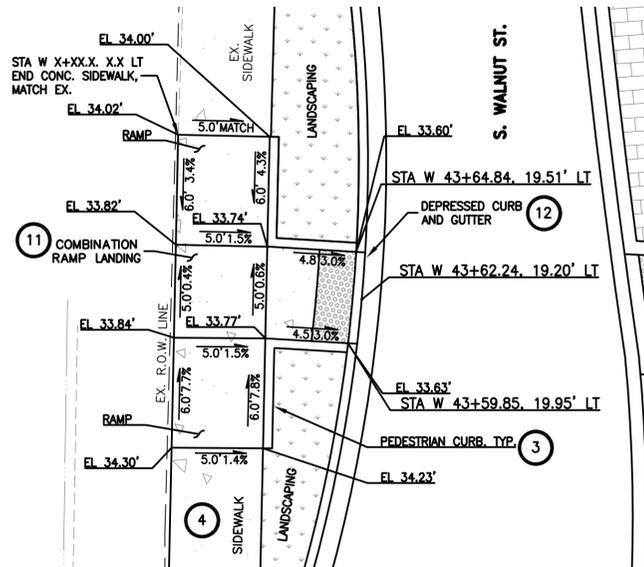
RD2

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

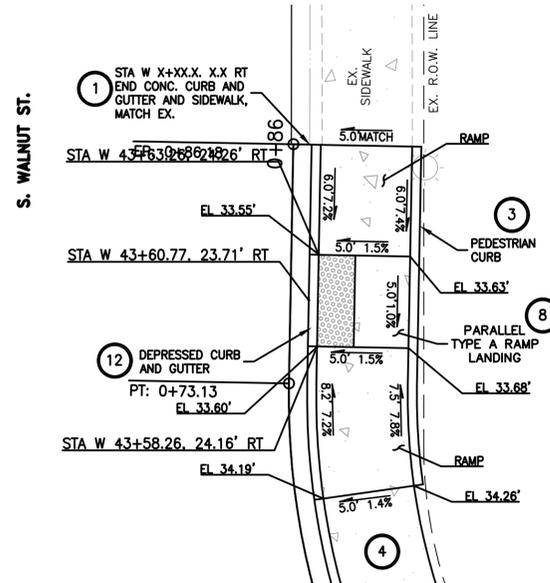
I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-09-SHEET-RD.dwg - RD3 - Bull, Gage - 1/25/2023 2:32 PM



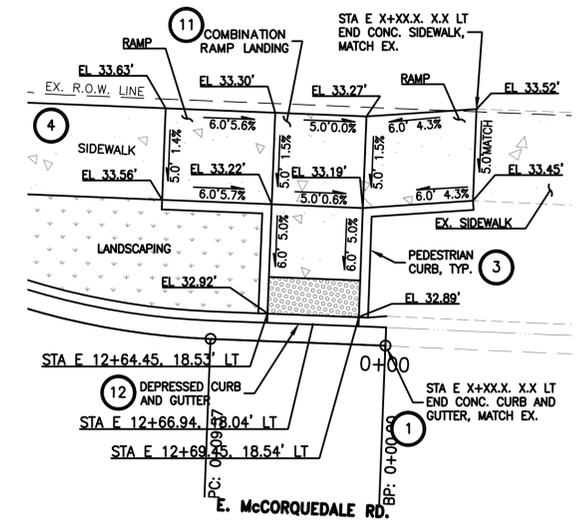
RAMP5 PLAN



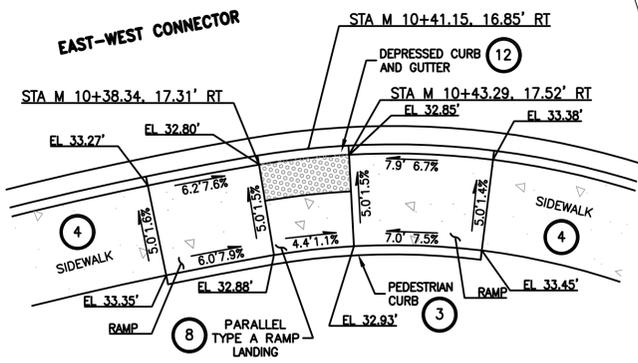
RAMP7 PLAN



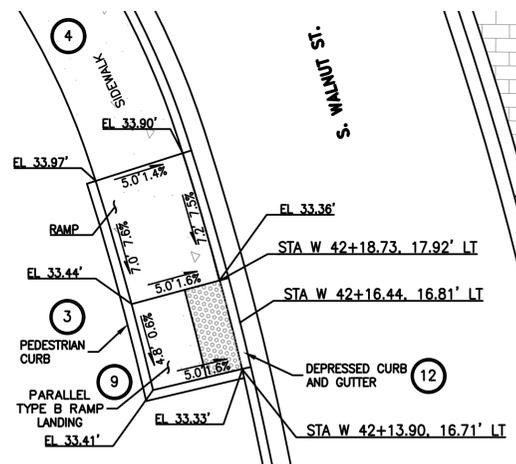
RAMP9 PLAN



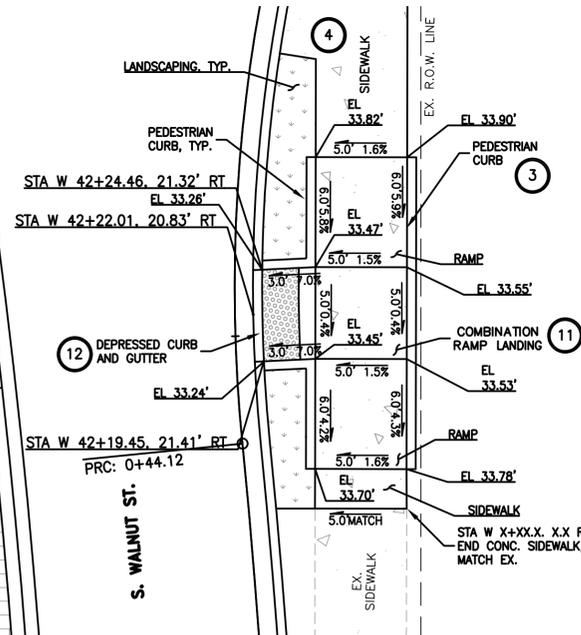
RAMP11 PLAN



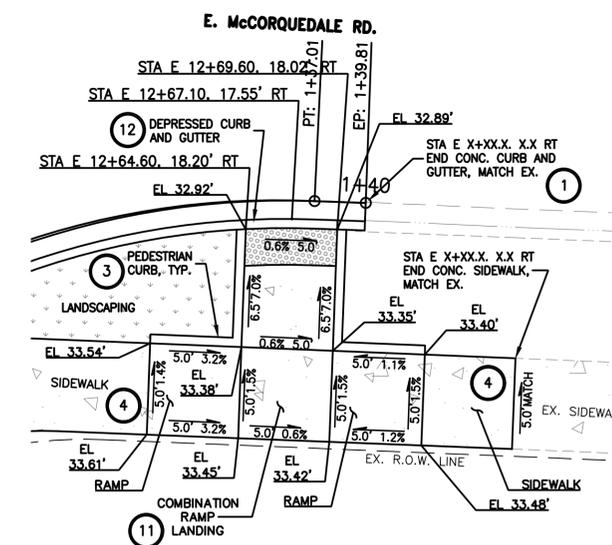
RAMP6 PLAN



RAMP8 PLAN



RAMP10 PLAN



RAMP12 PLAN

CONSTRUCTION NOTES

1. CONSTRUCT CEMENT CONC. TRAFFIC CURB AND GUTTER PER STANDARD PLAN F-10.12-04.
2. NOTE NOT ON THIS SHEET.
3. CONSTRUCT CEMENT CONC. PEDESTRIAN CURB PER STANDARD PLAN F-10.12-04.
4. CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND STANDARD PLAN F-30.10-04.
5. NOTE NOT ON THIS SHEET.
6. NOTE NOT ON THIS SHEET.
7. NOTE NOT ON THIS SHEET.
8. CONSTRUCT CEMENT CONC. PARALLEL CURB RAMP (TYPE A) WITH PEDESTRIAN CEMENT CONC. CURB PER STANDARD PLANS F-40.12-03 AND F-45.10-03.
9. CONSTRUCT CEMENT CONC. PARALLEL CURB RAMP (TYPE B) WITH PEDESTRIAN CEMENT CONC. CURB PER STANDARD PLANS F-40.12-03 AND F-45.10-03.
10. NOTE NOT ON THIS SHEET.
11. CONSTRUCT CEMENT CONC. COMBINATION CURB RAMP WITH PEDESTRIAN CEMENT CONC. CURB PER STANDARD PLANS F-40.14-03 AND F-45.10-03.
12. INSTALL DEPRESSED CEMENT CONC. CURB AND GUTTER SECTION PER STANDARD PLAN F-10.12-04.
13. ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE.
14. NOTE NOT ON THIS SHEET.

LEGEND

LENGTH
SLOPE
LENGTH/SLOPE



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH
LOCHNER
DESCRIPTION: 100% DESIGN
ISSUE DATE: JANUARY 9, 2023
DESIGNED BY: CHRIS NEAL, P.E.
CHECKED BY: JOHN R. TUTTLE, P.E.

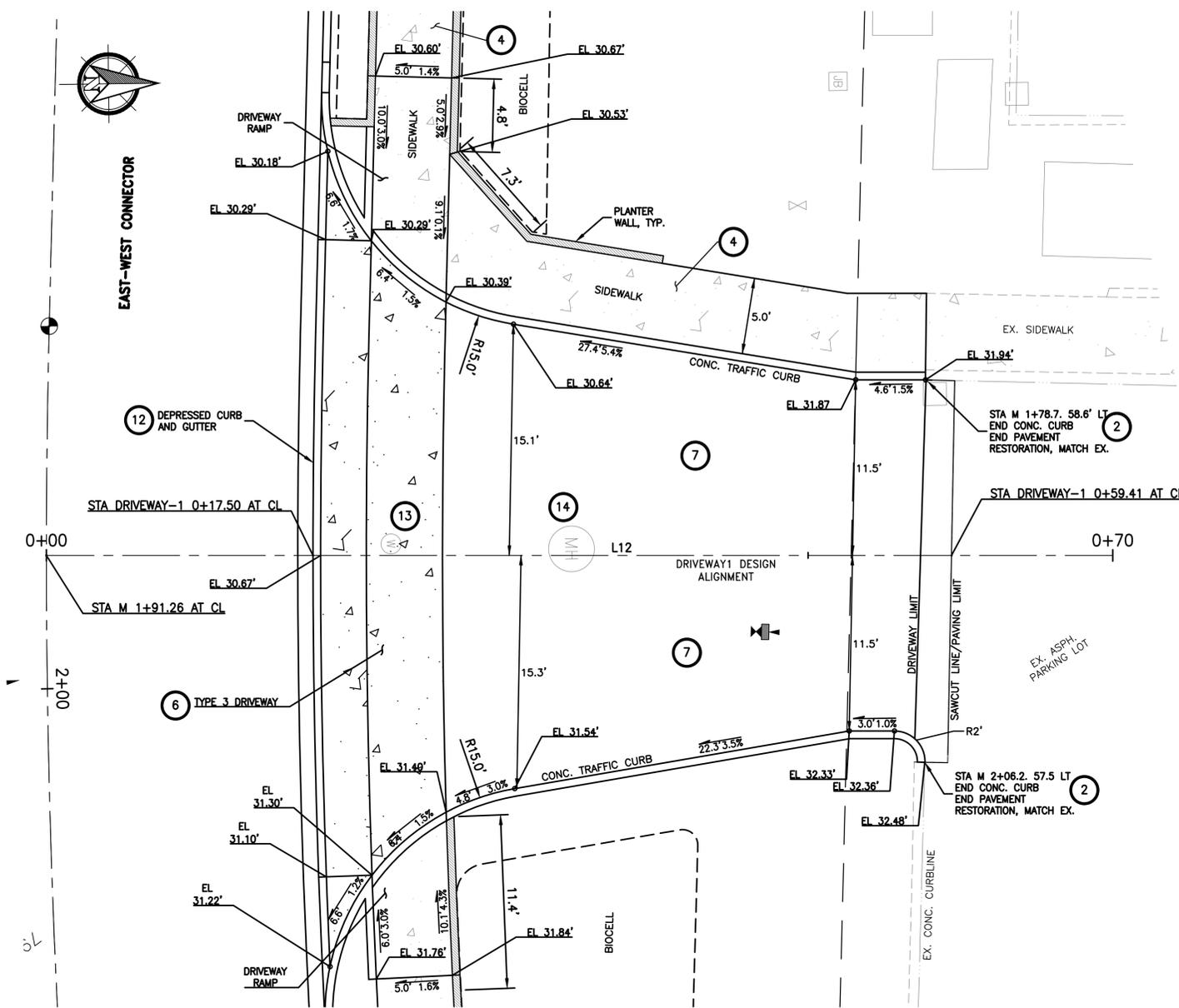
CITY OF BURLINGTON EAST-WEST CONNECTOR

ROADWAY DETAILS

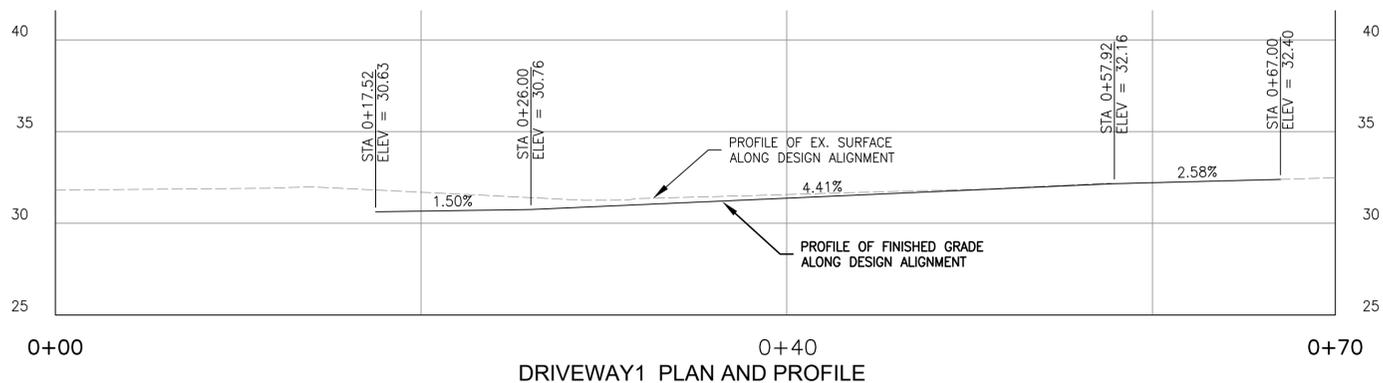
RD3

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

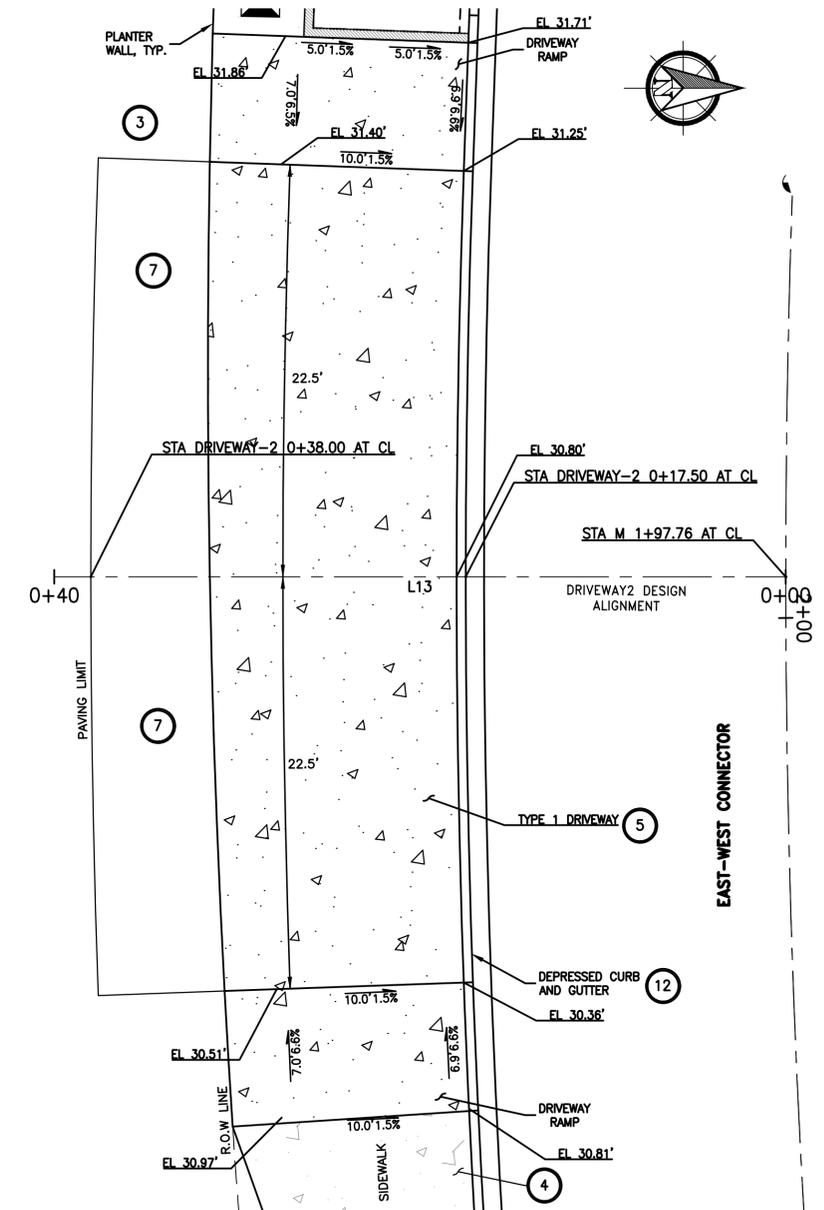
I:\BLV\PR\000016615\Task_Order_17_E-W_Connector\7_Engineering\CADD\Plans\16615-09-SHEET-RD.dwg - RD4 - Bull, Gage - 1/25/2023 2:40 PM



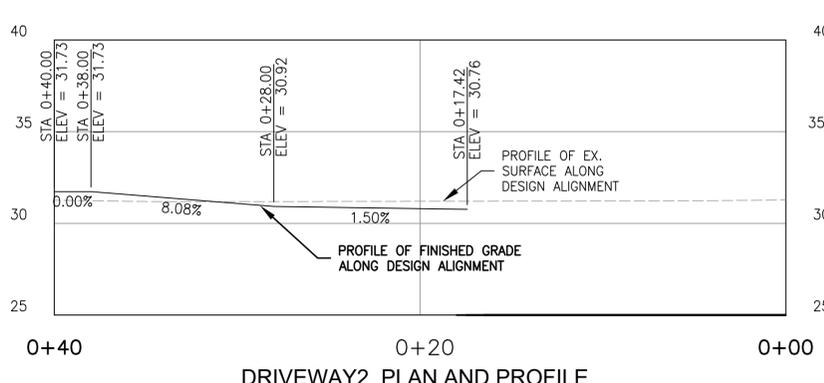
DRIVEWAY-1					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L12		70.00	N0° 42' 34.49"E	N = 533828.20, E = 1276096.61	N = 533828.20, E = 1276096.61



DRIVEWAY1 PLAN AND PROFILE

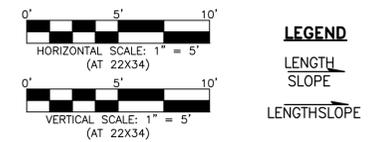


DRIVEWAY-2					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L13		40.00	S0° 05' 43.96"W	N = 533828.15, E = 1276103.10	N = 533828.15, E = 1276103.10

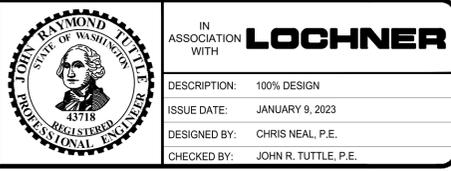
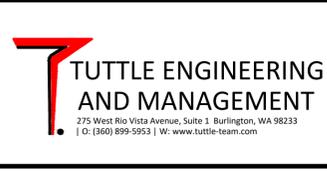


DRIVEWAY2 PLAN AND PROFILE

- CONSTRUCTION NOTES**
- NOTE NOT USED ON THIS SHEET
 - CONSTRUCT CEMENT CONC. TRAFFIC CURB PER STANDARD PLAN F-10.12-04.
 - NOTE NOT USED ON THIS SHEET.
 - CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND STANDARD PLAN F-30.10-04.
 - CONSTRUCT CEMENT CONC. DRIVEWAY ENTRANCE (TYPE 1) PER STANDARD PLAN F-80.10-04. SEE ROADWAY DETAILS FOR LINES, GRADES, AND DIMENSIONS.
 - CONSTRUCT CEMENT CONC. DRIVEWAY ENTRANCE (TYPE 3) PER STANDARD PLAN F-80.10-04. SEE ROADWAY DETAILS FOR LINES, GRADES, AND DIMENSIONS.
 - CONSTRUCT COMMERCIAL DRIVEWAY AND SURFACE GRADING TIE-IN PER DETAIL 2/01.
 - NOTE NOT USED ON THIS SHEET.
 - INSTALL DEPRESSED CEMENT CONC. CURB AND GUTTER SECTION PER STANDARD PLAN F-10.12-04.
 - ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE.
 - ADJUST EXISTING SANITARY SEWER MANHOLE TO FINISHED GRADE.



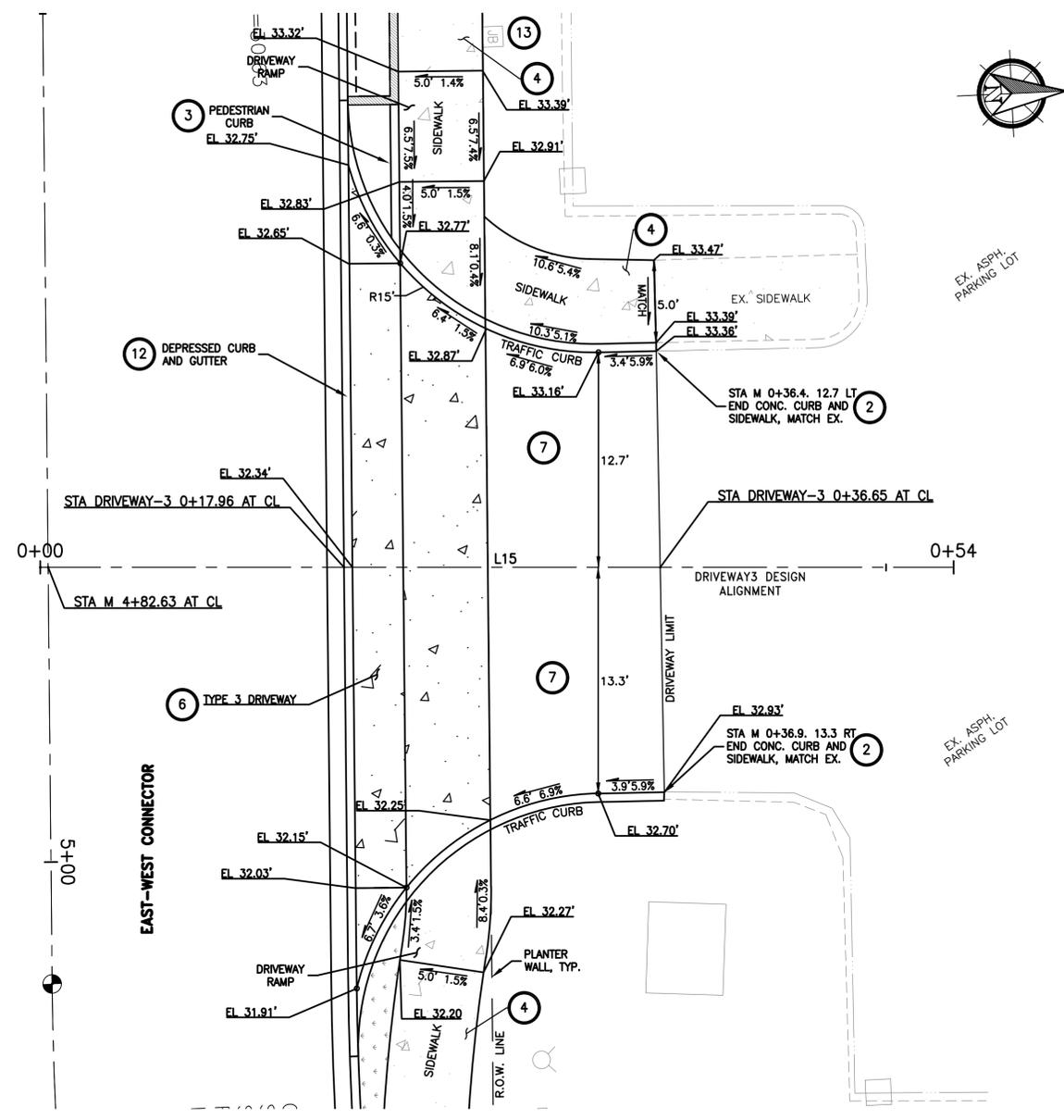
REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



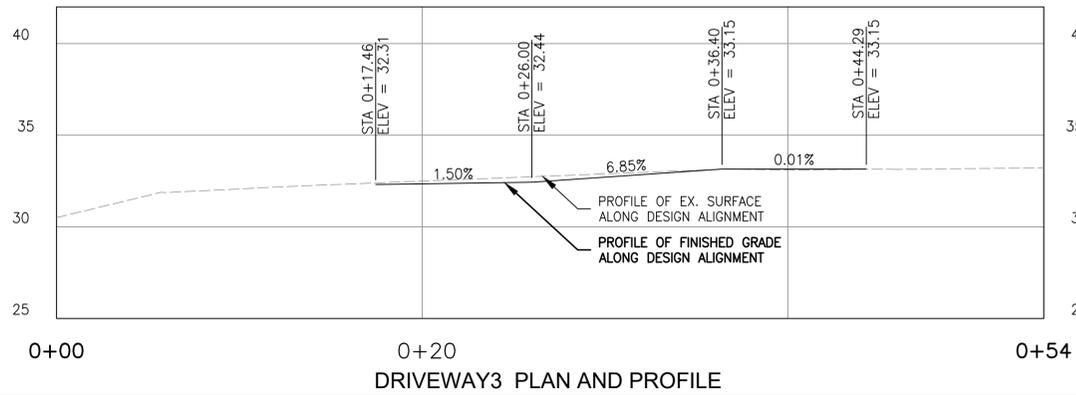
CITY OF BURLINGTON EAST-WEST CONNECTOR
RD4
 ROADWAY DETAILS

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-09-SHEET-RD.dwg - RD5 - Bull, Gage - 1/25/2023 2:46 PM

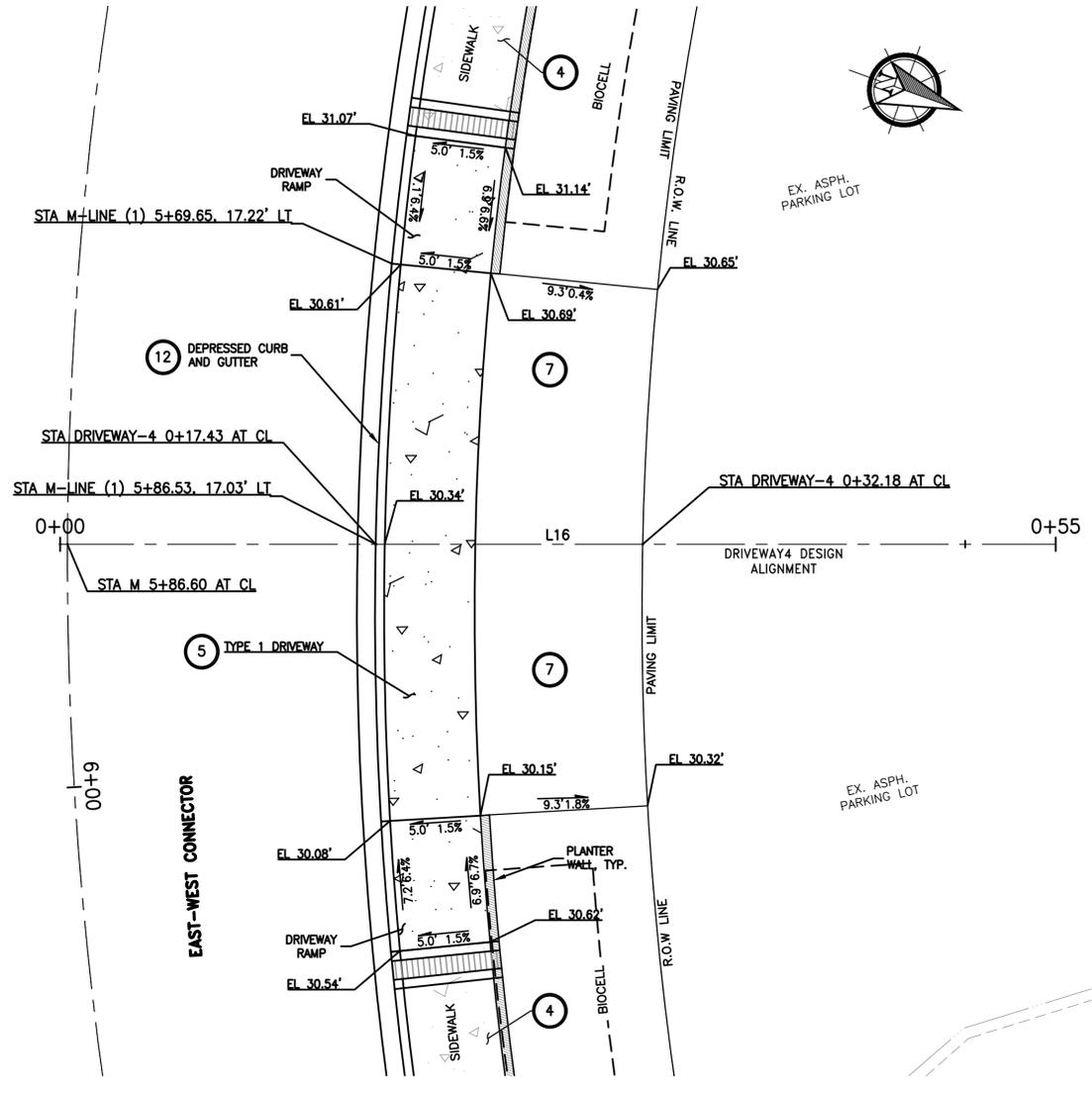
CB2, TYPE 1 WITH



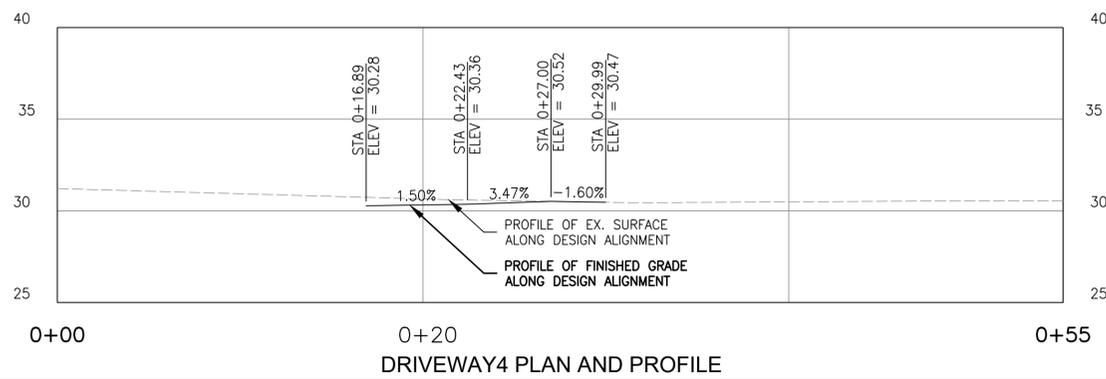
DRIVEWAY-3					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L15		54.00	N2° 41' 02.50"E	N = 533843.76, E = 1276386.84	N = 533843.76, E = 1276386.84



DRIVEWAY3 PLAN AND PROFILE



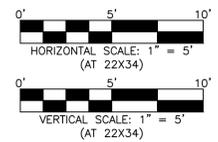
DRIVEWAY-4					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L16		55.00	N19° 52' 22.24"W	N = 533854.95, E = 1276489.55	N = 533854.95, E = 1276489.55



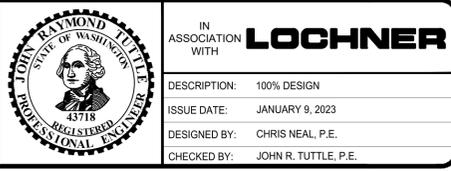
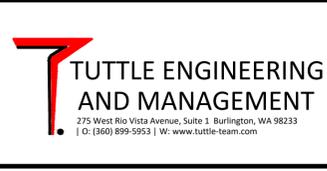
DRIVEWAY4 PLAN AND PROFILE

LEGEND
LENGTH
SLOPE
LENGTH/SLOPE

- CONSTRUCTION NOTES**
- NOTE NOT USED ON THIS SHEET.
 - CONSTRUCT CEMENT CONC. TRAFFIC CURB PER STANDARD PLAN F-10.12-04.
 - CONSTRUCT CEMENT CONC. PEDESTRIAN CURB PER STANDARD PLAN F-10.12-04.
 - CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND STANDARD PLAN F-30.10-04.
 - CONSTRUCT CEMENT CONC. DRIVEWAY ENTRANCE (TYPE 1) PER STANDARD PLAN F-80.10-04. SEE ROADWAY DETAILS FOR LINES, GRADES, AND DIMENSIONS.
 - CONSTRUCT CEMENT CONC. DRIVEWAY ENTRANCE (TYPE 3) PER STANDARD PLAN F-80.10-04. SEE ROADWAY DETAILS FOR LINES, GRADES, AND DIMENSIONS.
 - CONSTRUCT COMMERCIAL DRIVEWAY AND SURFACE GRADING TIE-IN PER DETAIL 2/DT1.
 - NOTE NOT USED ON THIS SHEET.
 - INSTALL DEPRESSED CEMENT CONC. CURB AND GUTTER SECTION PER STANDARD PLAN F-10.12-04.
 - ADJUST EXISTING UTILITY FEATURE TO FINISHED GRADE.
 - NOTE NOT USED ON THIS SHEET.



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

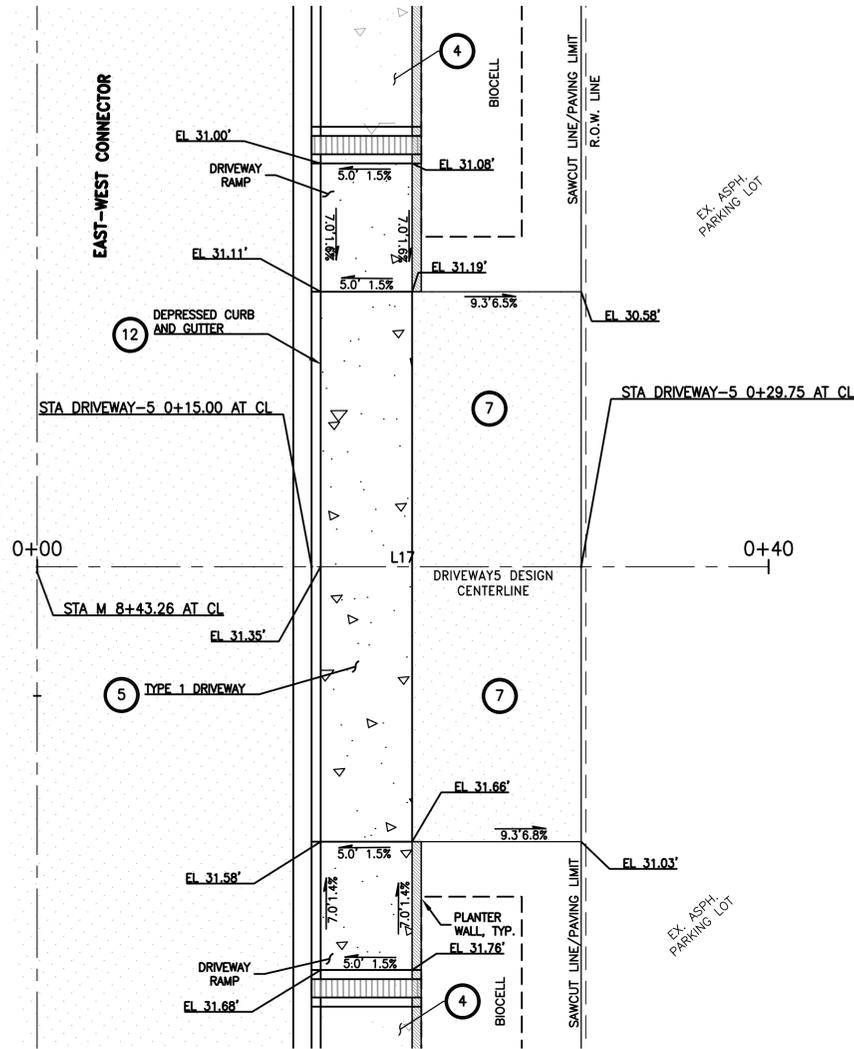


CITY OF BURLINGTON EAST-WEST CONNECTOR

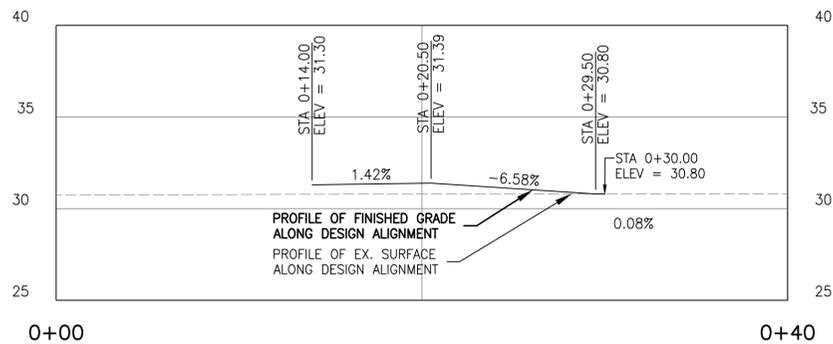
ROADWAY DETAILS

RD5

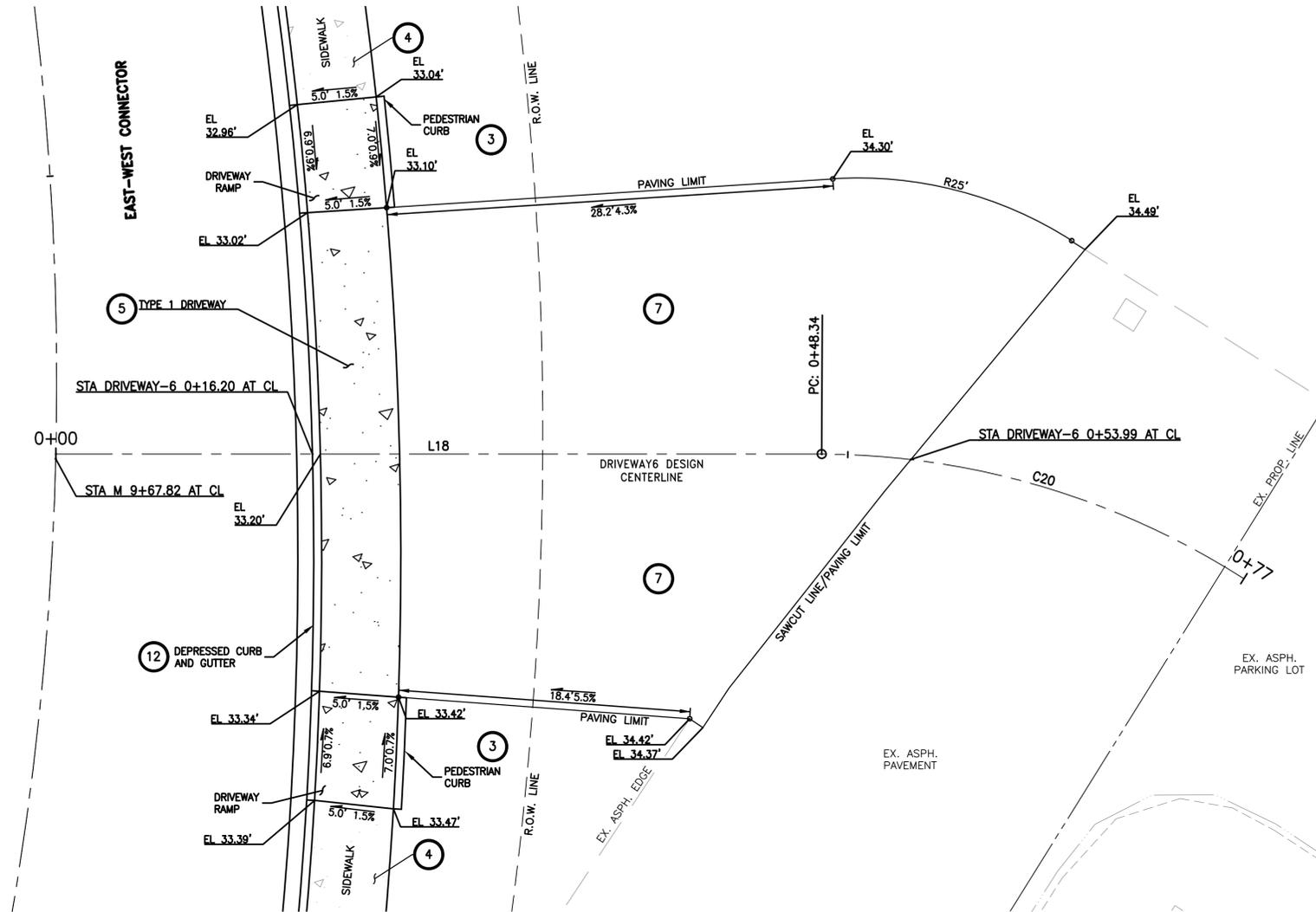
D:\East-West Connector\Z_Engineering\CADD\Plans -- MOVED TO I_DRIVE_01.09.2023\16615-09-SHEET-RD6.dwg -- RD6 -- Tuttle, John -- 1/17/2023 11:13 AM



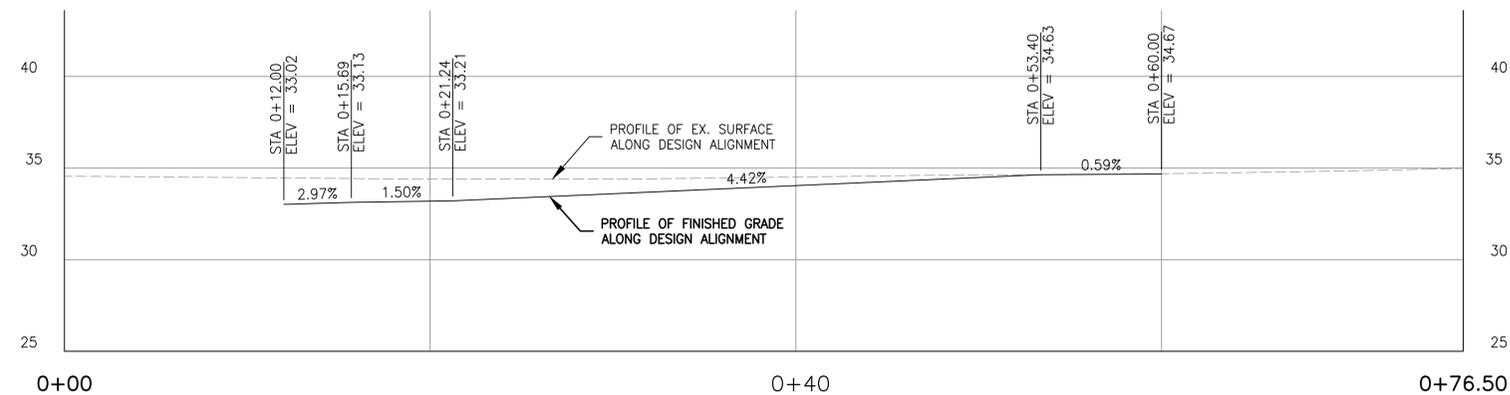
DRIVEWAY-5					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L17		40.00	N45° 02' 54.14"W	N = 534020.34, E = 1276682.71	N = 534020.34, E = 1276682.71



DRIVEWAY5 PLAN AND PROFILE



DRIVEWAY-6					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	STARTING COORDINATES	ENDING COORDINATES
L18		48.34	N32° 19' 45.68"W	N = 534103.94, E = 1276774.59	N = 534103.94, E = 1276774.59
C20	50.01	28.16	N15° 54' 34.74"W	N = 534144.79, E = 1276748.74	N = 534144.79, E = 1276748.74



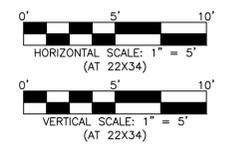
DRIVEWAY6 PLAN AND PROFILE

LEGEND

LENGTH
SLOPE
LENGTH/SLOPE

CONSTRUCTION NOTES

1. NOTE NOT USED ON THIS SHEET.
2. NOTE NOT USED ON THIS SHEET.
3. CONSTRUCT CEMENT CONC. PEDESTRIAN CURB PER STANDARD PLAN F-10.12-04.
4. CONSTRUCT VARYING WIDTH CEMENT CONC. SIDEWALK PER THE ROADWAY SECTIONS AND STANDARD PLAN F-30.10-04.
5. CONSTRUCT CEMENT CONC. DRIVEWAY ENTRANCE (TYPE 1) PER STANDARD PLAN F-80.10-04. SEE ROADWAY DETAILS FOR LINES, GRADES, AND DIMENSIONS.
6. NOTE NOT USED ON THIS SHEET.
7. CONSTRUCT COMMERCIAL DRIVEWAY AND SURFACE GRADING TIE-IN PER DETAIL 2/DT1.
8. NOTE NOT USED ON THIS SHEET.
9. NOTE NOT USED ON THIS SHEET.
10. NOTE NOT USED ON THIS SHEET.
11. NOTE NOT USED ON THIS SHEET.
12. INSTALL DEPRESSED CEMENT CONC. CURB AND GUTTER SECTION PER STANDARD PLAN F-10.12-04.
13. NOTE NOT USED ON THIS SHEET.
14. NOTE NOT USED ON THIS SHEET.



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

 CITY OF BURLINGTON
 SKAGIT COUNTY, WASHINGTON INCORPORATED 1862
 833 S. SPRUCE STREET BURLINGTON, WA 98233

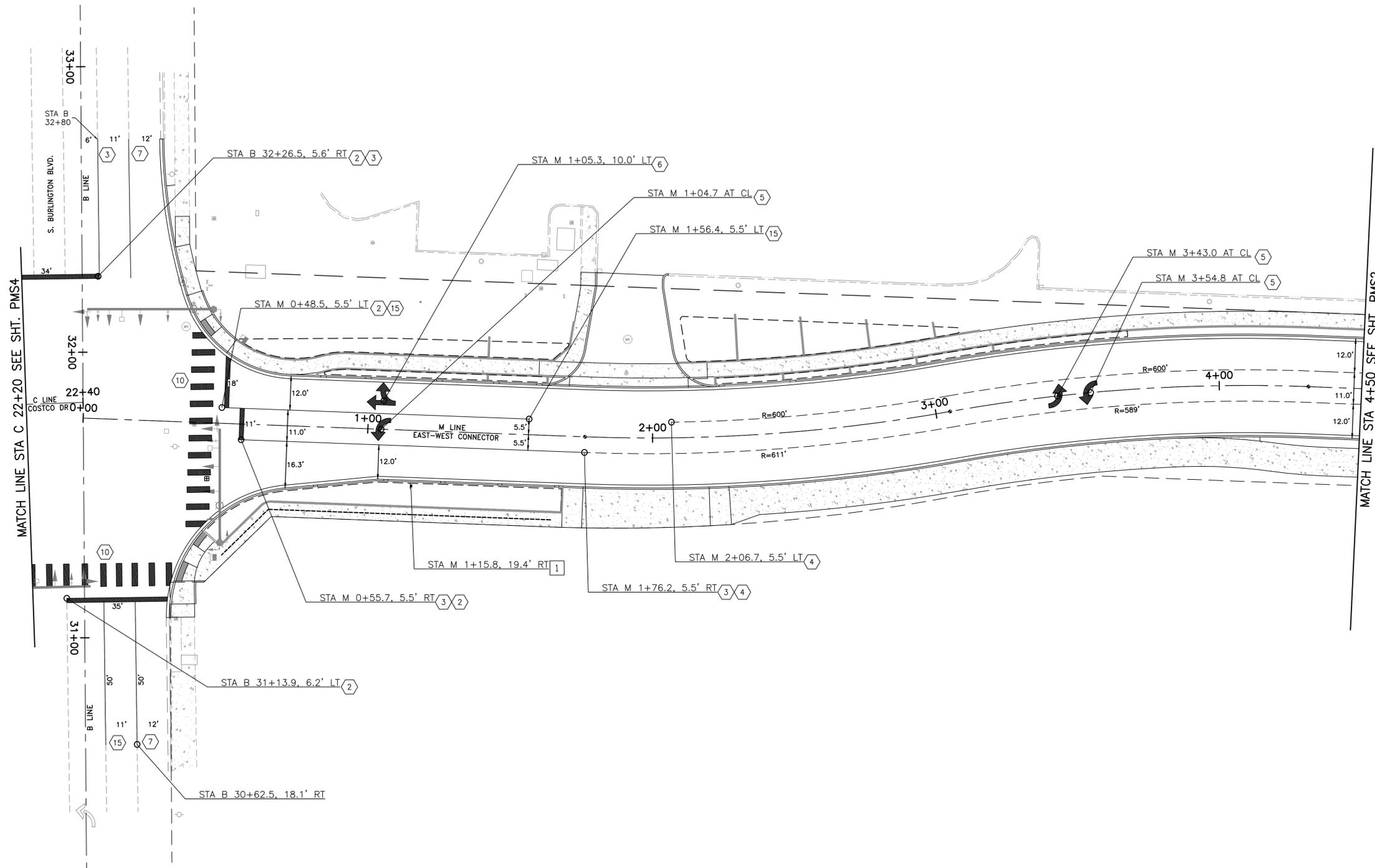
TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | P: (360) 899-5953 | W: www.tuttle-team.com



IN ASSOCIATION WITH
LOCHNER
 DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: CHRIS NEAL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
 ROADWAY DETAILS
 RD6

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.



GENERAL NOTES

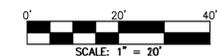
1. SIGNS SHALL CONFORM TO THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND EACH OF ITS REVISIONS.
2. SIGN PLACEMENT SHALL CONFORM TO WSDOT STANDARD PLAN G-20.10-03.
3. SIGN SUPPORTS SHALL CONFORM TO WSDOT STANDARD PLAN G-22.10-04 AND DETAIL 6/DT1. ALL SIGNS SHALL CONFORM TO THE WSDOT SIGN FABRICATION MANUAL, SHALL BE INSTALLED ON 4"x4" WOOD POSTS, AND SHALL EXCLUDE THE SIGN BRACE.
4. THE LAYOUT OF ALL SIGNS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY ENGINEER PRIOR TO FABRICATION. SUBMITTALS SHALL INCLUDE A SCALED DRAWING OF THE SIGN WITH COLORS, TEXT, AND GRAPHICS CLEARLY DEFINED.
5. PAVEMENT MARKINGS ARE RAISED PAVEMENT MARKERS INSTALLED PER WSDOT STANDARD PLAN M-20.50-02 UNLESS OTHERWISE NOTED.
6. ALL PLASTIC PAVEMENT MARKINGS SHALL BE TYPE D LIQUID COLD APPLIED METHYL METHACRYLATE (MMA) AND SHALL COMPLY WITH SECTION 9-34.3(4) OF THE WSDOT STANDARD SPECIFICATIONS.
7. DIMENSIONS ARE MEASURED FROM FACE OF GUTTER OR ALIGNMENT TO PAVEMENT MARKING.
8. SEE THE PROJECT DETAIL SHEETS FOR INFORMATION ON NON-STANDARD PAVEMENT MARKINGS.
9. ROUNDABOUT CHANNELIZATION IS BASED ON WSDOT STANDARD PLAN M-12.10-03.

PAVEMENT MARKING NOTES

1. NOTE NOT USED ON THIS SHEET.
2. INSTALL PLASTIC STOP LINE PER WSDOT STANDARD PLAN M-24.60-04.
3. INSTALL DOUBLE YELLOW CENTERLINE RPM PER WSDOT STANDARD PLAN M-20.50-02.
4. INSTALL TWO-WAY LEFT-TURN CENTERLINE RPM PER WSDOT STANDARD PLAN M-20.50-02.
5. INSTALL PLASTIC TYPE 2SL WHITE TRAFFIC ARROW PER WSDOT STANDARD PLAN M-24.40-02.
6. INSTALL PLASTIC TYPE 3SR WHITE TRAFFIC ARROW PER WSDOT STANDARD PLAN M-24.40-02.
7. INSTALL WHITE LANE LINE RPM PER WSDOT STANDARD PLAN M-20.50-02.
8. NOTE NOT USED ON THIS SHEET.
9. NOTE NOT USED ON THIS SHEET.
10. INSTALL PLASTIC CROSSWALK LINE PER WSDOT STANDARD PLAN M-15.10-01.
11. NOTE NOT USED ON THIS SHEET.
12. NOTE NOT USED ON THIS SHEET.
13. NOTE NOT USED ON THIS SHEET.
14. NOTE NOT USED ON THIS SHEET.
15. INSTALL WHITE WIDE LANE LINE RPM PER WSDOT STANDARD PLAN M-20.50-02.

SIGNAGE NOTES

1. INSTALL 24"x30" (R2-1) "25 MPH" SPEED LIMIT SIGN.
2. NOTE NOT USED ON THIS SHEET.
3. NOTE NOT USED ON THIS SHEET.
4. NOTE NOT USED ON THIS SHEET.
5. NOTE NOT USED ON THIS SHEET.
6. NOTE NOT USED ON THIS SHEET.
7. NOTE NOT USED ON THIS SHEET.
8. NOTE NOT USED ON THIS SHEET.
9. NOTE NOT USED ON THIS SHEET.



DRAWING ON 11"x17" DEPICTS HALF ON SHOWN SCALE

RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF TUTTLE ENGINEERING AND MANAGEMENT. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

PREPARED FOR:

 CITY OF Burlington
 SKAGIT COUNTY, WASHINGTON INCORPORATED 1892
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | O: (360) 899-5953 | W: www.tuttle-team.com



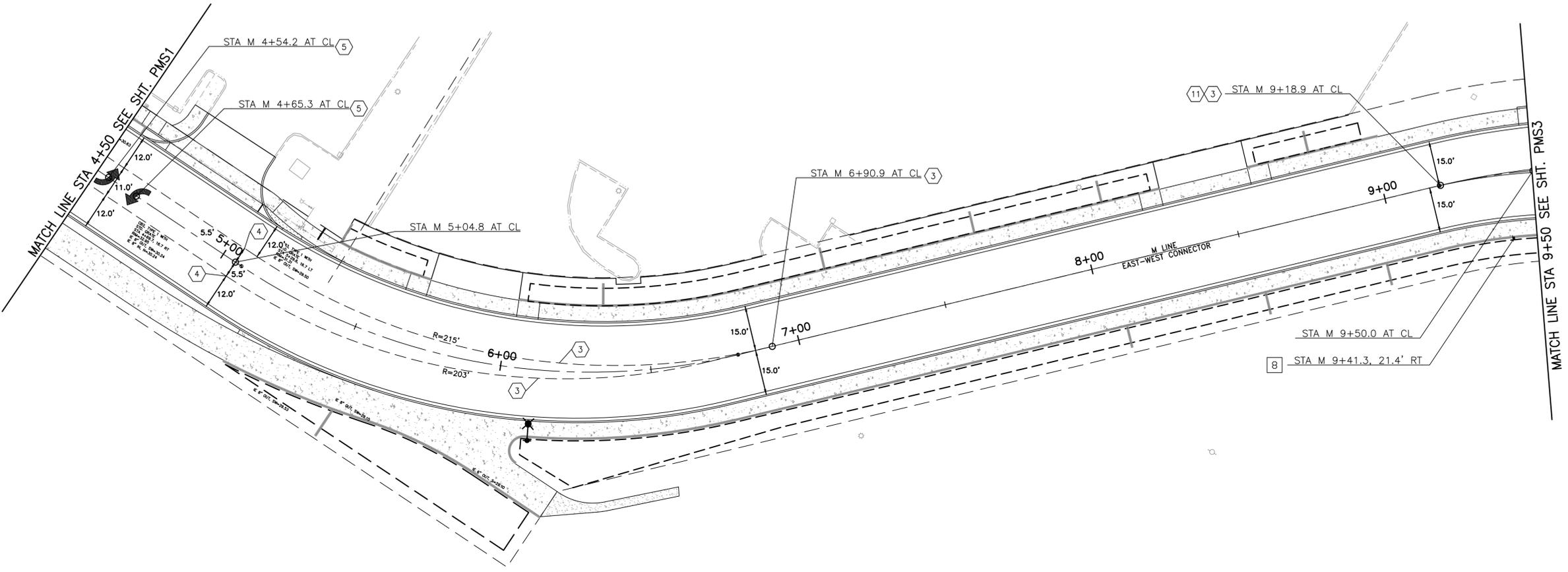
IN ASSOCIATION WITH **LOCHNER**
 DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: GERRY WILLHELM, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
 PAVEMENT MARKINGS AND SIGNAGE PLAN
 PMS1

SAVE SIGN CALL

SAVE SIGN CALL

D:\East-West Connector\7_Engineering\CADD\Plans -- MOVED TO I DRIVE 01.09.2023\16615-10-SHEET-PMS.dwg -- PM2 -- Tuttle, John -- 1/17/2023 11:18 AM

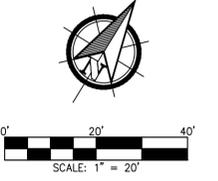


PAVEMENT MARKING NOTES

1. NOTE NOT USED ON THIS SHEET.
2. NOTE NOT USED ON THIS SHEET.
3. INSTALL DOUBLE YELLOW CENTERLINE RPM PER WSDOT STANDARD PLAN M-20.50-02.
4. INSTALL TWO-WAY LEFT-TURN CENTERLINE RPM PER WSDOT STANDARD PLAN M-20.50-02.
5. INSTALL PLASTIC TYPE 2SL WHITE TRAFFIC ARROW PER WSDOT STANDARD PLAN M-24.40-02.
6. NOTE NOT USED ON THIS SHEET.
7. NOTE NOT USED ON THIS SHEET.
8. NOTE NOT USED ON THIS SHEET.
9. NOTE NOT USED ON THIS SHEET.
10. NOTE NOT USED ON THIS SHEET.
11. INSTALL YELLOW LANE LINE RPM PER WSDOT STANDARD PLAN M-20.50-02.
12. NOTE NOT USED ON THIS SHEET.
13. NOTE NOT USED ON THIS SHEET.
14. NOTE NOT USED ON THIS SHEET.
15. NOTE NOT USED ON THIS SHEET.

SIGNAGE NOTES

1. NOTE NOT USED ON THIS SHEET.
2. NOTE NOT USED ON THIS SHEET.
3. NOTE NOT USED ON THIS SHEET.
4. NOTE NOT USED ON THIS SHEET.
5. NOTE NOT USED ON THIS SHEET.
6. NOTE NOT USED ON THIS SHEET.
7. NOTE NOT USED ON THIS SHEET.
8. INSTALL 30"x30" (W2-6) INTERSECTION WARNING SIGN AND 24"x12" (W16-17P) ROUNDABOUT PLAQUE.
9. NOTE NOT USED ON THIS SHEET.



DRAWING ON 11"x17" DEPICTS HALF ON SHOWN SCALE

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH	LOCHNER
DESCRIPTION:	100% DESIGN
ISSUE DATE:	JANUARY 9, 2023
DESIGNED BY:	GERRY WILLHELM, P.E.
CHECKED BY:	JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

PAVEMENT MARKINGS AND SIGNAGE PLAN

PMS2

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

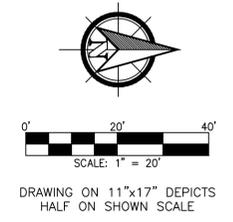
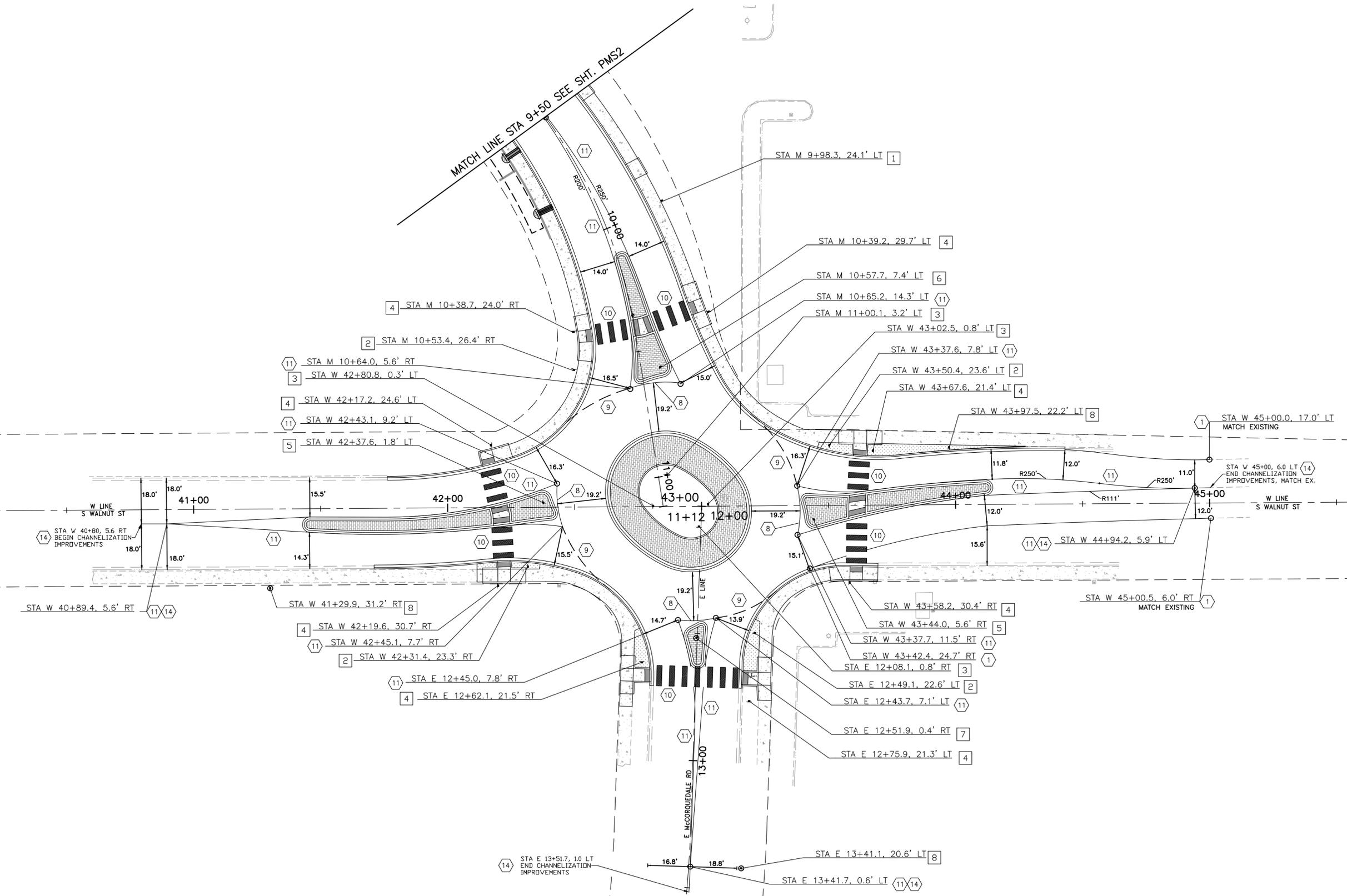
D:\East-West Connector\Z_Engineering\CADD\Plans -- MOVED TO I DRIVE 01.09.2023\16615-10-SHEET-PMS.dwg -- PM3 -- Tuttle, John -- 1/17/2023 11:19 AM

PAVEMENT MARKING NOTES

1. INSTALL WHITE EDGE LINE PER WSDOT STANDARD PLAN M-20.50-02.
2. NOTE NOT USED ON THIS SHEET.
3. NOTE NOT USED ON THIS SHEET.
4. NOTE NOT USED ON THIS SHEET.
5. NOTE NOT USED ON THIS SHEET.
6. NOTE NOT USED ON THIS SHEET.
7. NOTE NOT USED ON THIS SHEET.
8. INSTALL WHITE WIDE EDGE LINE PER WSDOT STANDARD PLAN M-20.50-02.
9. INSTALL WIDE DOTTED ENTRY LINE PER WSDOT STANDARD PLAN M-20.10-04.
10. INSTALL PLASTIC CROSSWALK LINE PER WSDOT STANDARD PLAN M-15.10-01.
11. INSTALL YELLOW LANE LINE RPM PER WSDOT STANDARD PLAN M-20.50-02.
12. NOTE NOT USED ON THIS SHEET.
13. NOTE NOT USED ON THIS SHEET.
14. INSTALL YELLOW CENTER LINE RPM PER WSDOT STANDARD PLAN M-20.50-02.
15. NOTE NOT USED ON THIS SHEET.

SIGNAGE NOTES

1. NOTE NOT USED ON THIS SHEET.
2. INSTALL 36"x36"x36" (R1-2) "YIELD" SIGN.
3. INSTALL 30"x24" (R6-4) ROUNDABOUT DIRECTIONAL ARROW SIGN.
4. INSTALL 30"x30" (W11-2) PEDESTRIAN CROSSING SIGN AND 24"x12" (W16-7PL) DOWNWARD DIAGONAL ARROW PLAQUE.
5. INSTALL 48"x12" (D3-302) "S WALNUT ST" CROSSROADS SIGN WITH CHEVRON.
6. INSTALL 54"x12" (D3-302) "EAST-WEST CONNECTOR" CROSSROADS SIGN WITH CHEVRON.
7. INSTALL 54"x12" (D3-302) "E MCCORQUEDALE RD" CROSSROADS SIGN WITH CHEVRON.
8. INSTALL 30"x30" (W2-6) INTERSECTION WARNING SIGN AND 24"x12" (W16-17P) ROUNDABOUT PLAQUE.
9. NOTE NOT USED ON THIS SHEET.

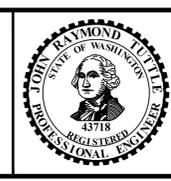


REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

CITY OF Burlington
SKAGIT COUNTY, WASHINGTON INCORPORATED 1952
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | P: (360) 899-5953 | W: www.tuttle-team.com



IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: GERRY WILLHELM, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

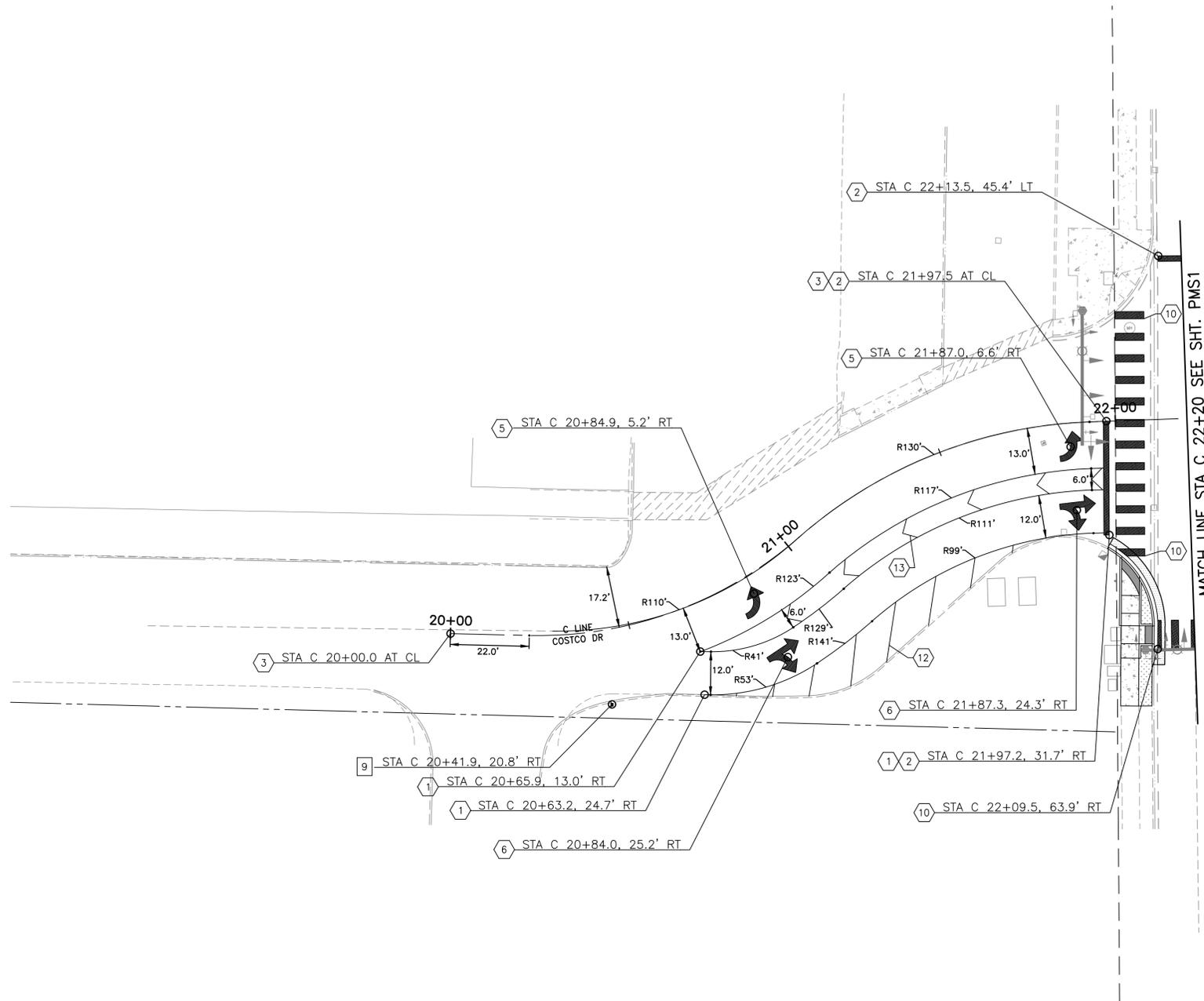
CITY OF BURLINGTON EAST-WEST CONNECTOR

PAVEMENT MARKINGS AND SIGNAGE PLAN

PMS3

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

D:\East-West Connector\7_Engineering\CADD\Plans -- MOVED TO I DRIVE 01.09.2023\16615-10-SHEET-PMS.dwg -- PM4 -- Tuttle, John -- 1/17/2023 11:20 AM

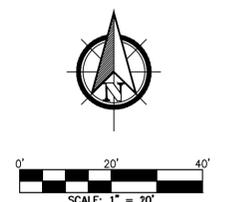
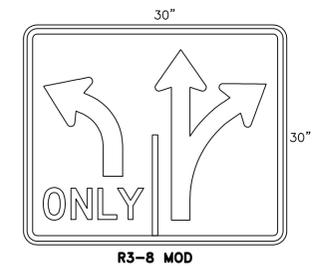


PAVEMENT MARKING NOTES

1. INSTALL WHITE EDGE LINE PER WSDOT STANDARD PLAN M-20.50-02.
2. INSTALL PLASTIC STOP LINE PER WSDOT STANDARD PLAN M-24.60-04.
3. INSTALL DOUBLE YELLOW CENTERLINE RPM PER WSDOT STANDARD PLAN M-20.50-02.
4. NOTE NOT USED ON THIS SHEET.
5. INSTALL PLASTIC TYPE 2SL WHITE TRAFFIC ARROW PER WSDOT STANDARD PLAN M-24.40-02.
6. INSTALL PLASTIC TYPE 3SR WHITE TRAFFIC ARROW PER WSDOT STANDARD PLAN M-24.40-02.
7. NOTE NOT USED ON THIS SHEET.
8. NOTE NOT USED ON THIS SHEET.
9. NOTE NOT USED ON THIS SHEET.
10. INSTALL PLASTIC CROSSWALK LINE PER WSDOT STANDARD PLAN M-15.10-01.
11. NOTE NOT USED ON THIS SHEET.
12. INSTALL WHITE TRAFFIC BARRIER CROSSHATCH ON TEN-FOOT CENTERS PER DETAIL 4/DT1.
13. INSTALL WHITE TRAFFIC DIVIDER CROSSHATCH ON TEN-FOOT CENTERS PER DETAIL 5/DT1.
14. NOTE NOT USED ON THIS SHEET.
15. NOTE NOT USED ON THIS SHEET.

SIGNAGE NOTES

1. NOTE NOT USED ON THIS SHEET
2. NOTE NOT USED ON THIS SHEET.
3. NOTE NOT USED ON THIS SHEET.
4. NOTE NOT USED ON THIS SHEET.
5. NOTE NOT USED ON THIS SHEET.
6. NOTE NOT USED ON THIS SHEET.
7. NOTE NOT USED ON THIS SHEET.
8. NOTE NOT USED ON THIS SHEET.
9. REMOVE EXISTING ADVANCED INTERSECTION LANE CONTROL SIGN (R3-8A) AND INSTALL 30"x30" (R3-8 MOD) ADVANCED INTERSECTION LANE CONTROL SIGN PER DETAIL ON THIS SHEET.



DRAWING ON 11"x17" DEPICTS HALF ON SHOWN SCALE

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH	LOCHNER
DESCRIPTION:	100% DESIGN
ISSUE DATE:	JANUARY 9, 2023
DESIGNED BY:	GERRY WILLHELM, P.E.
CHECKED BY:	JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
PAVEMENT MARKINGS AND SIGNAGE PLAN

PMS4

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

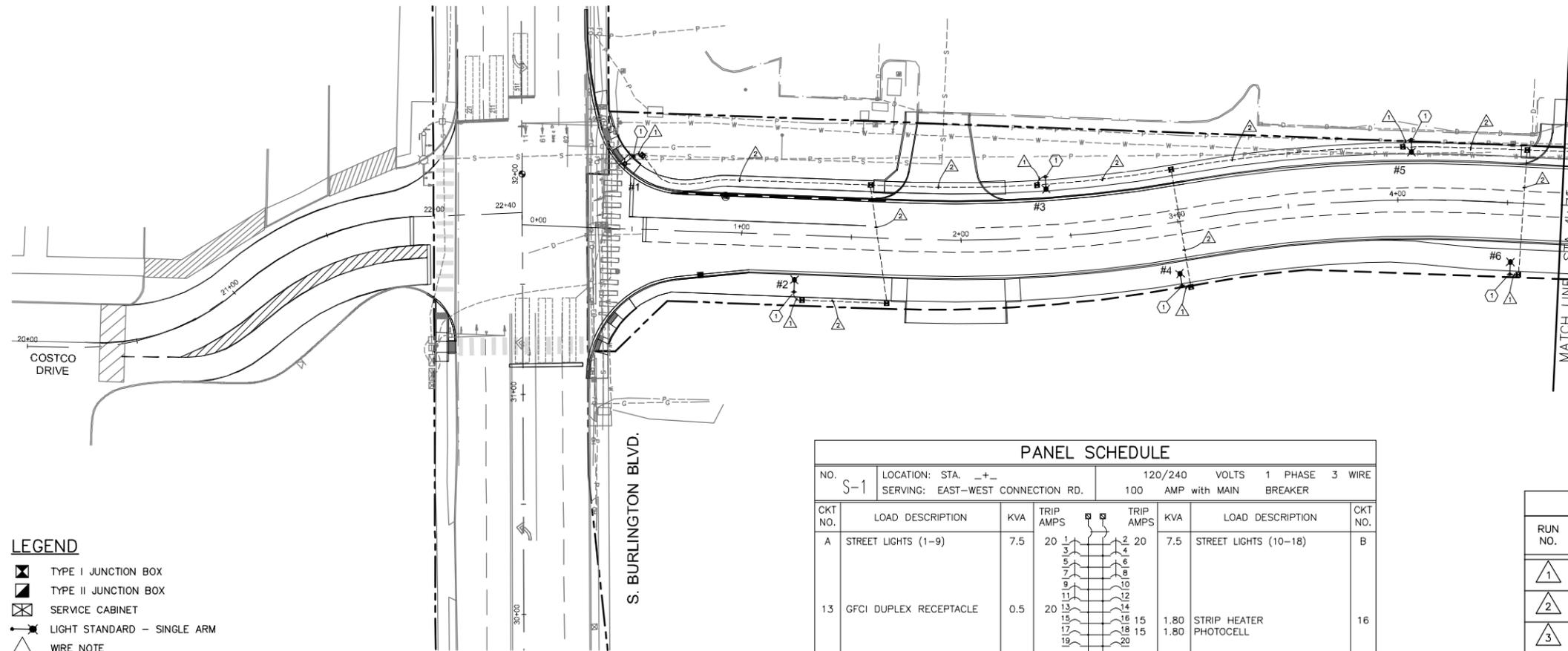
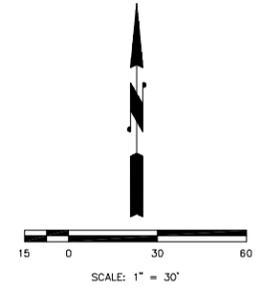
CONSTRUCTION NOTES

- 1 FURNISH AND INSTALL CONCRETE FOUNDATION AND 35-FOOT LIGHT LUMINAIRE STANDARD WITH 6 FOOT MAST ARM. SEE LUMINAIRE SCHEDULE FOR LOCATION, POLE, AND LUMINAIRE DETAILS. SEE WSDOT STANDARD PLAN J-28.10-02 FOR POLE MOUNTING DETAIL (STANDARD GROUND MOUNT) AND J-28.30-03 TYPE B FOR FOUNDATION DETAIL. INSTALL NEW JUNCTION BOX WITH SKID RESISTANT LID.
- 2 FURNISH INSTALL NEW WSDOT TYPE D SERVICE CABINET (120/240V SINGLE PHASE, 200 AMP) AT LOCATION SHOWN. SEE WSDOT STANDARD PLAN J-10.21-01. FOUNDATION SHALL BE ADJACENT TO THE BACK OF SIDEWALK. COORDINATE WITH PSE FOR NEW UNDERGROUND SERVICE TO CABINET (4 #2'S). FOUNDATION SHALL CONFORM TO WSDOT STANDARD PLAN J-10.10-04.
- 3 INSTALL NEW PHOTOCELL ON LUMINAIRE #1 AND LUMINAIRE #18.

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS AND SPECIFICATIONS, NATIONAL ELECTRICAL CODE (NEC), PSE DETAILS, CITY OF BURLINGTON STANDARD PLANS, DETAILS, AND THESE PLANS.
2. ALL CONDUIT USED FOR THE LIGHTING SYSTEM SHALL BE SCHEDULE 40 PVC, SIZED AS SHOWN ON THE PLANS. PVC SCHEDULE 80 SHALL BE USED ON ROADWAY CROSSINGS OR UNDER VEHICLE TRAFFIC.
3. ALL POLES AND MASTARMS SHALL BE HAPCO DAVIT POLE AND LUMINAIRES SHALL BE LEOTEK GCM.
4. ALL WIRE SHALL BE U.S.E. COPPER SIZED PER WIRING SCHEDULE.

LUMINAIRE SCHEDULE											
LUMINAIRE NO.	CIRCUIT NO.	LOCATION		POLE HEIGHT (ft)	MAST ARM (ft)	POLETYPE	MAST ARM TYPE	LUMINAIRE TYPE	FITTURE TYPE	WATTAGE/TYPE	COMMENTS
		STATION (FEET)	OFFSET (FEET)								
#1	A	0+50	33' L	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM	COBRA	80W LED	
#2	A	1+39	26' R	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM	COBRA	80W LED	
#3	A	2+40	27L	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM	COBRA	80W LED	
#4	A	2+98	29R	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM	COBRA	80W LED	
#5	A	4+31	27L	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM	COBRA	80W LED	
#6	A	4+53	33' R	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM	COBRA	80W LED	



PANEL SCHEDULE							
NO. S-1	LOCATION: STA. _+_		120/240 VOLTS 1 PHASE 3 WIRE				
SERVING: EAST-WEST CONNECTION RD.		100 AMP with MAIN BREAKER					
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
A	STREET LIGHTS (1-9)	7.5	20	20	7.5	STREET LIGHTS (10-18)	B
13	GFCI DUPLEX RECEPTACLE	0.5	20	20	1.80	STRIP HEATER	16
REMARKS:		CONNECTED LOAD:		19.4	KVA	56	AMPS
		DEMAND LOAD:			KVA		AMPS

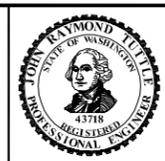
WIRE / CONDUIT SCHEDULE			
RUN NO.	CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2" PVC	2-#10	LIGHTING CIRCUIT
2	2" PVC	2-#8 1-#6	LIGHTING GROUND
3	2" PVC	2-#2	CONNECT TO PSE

E:\0-Gary Norris\2021 - Burlington Blvd Signal Modification\0-Burlington (Lighting-Signal)\1-19-2023.dwg - Sheets - Rendle, Dave - 1/20/2023 10:09 AM

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:
 833 S. SPRUCE STREET BURLINGTON WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Burlington, WA 98233
 | O: (360) 898-5853 | W: www.tuttle-esm.com



IN ASSOCIATION WITH **LOCHNER**
 DESCRIPTION:
 ISSUE DATE:
 DESIGNED BY:
 CHECKED BY:

CITY OF BURLINGTON EAST-WEST CONNECTOR ROAD

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

CONSTRUCTION NOTES

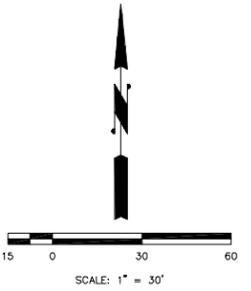
- 1 FURNISH AND INSTALL CONCRETE FOUNDATION AND 35-FOOT LIGHT LUMINAIRE STANDARD WITH 6 FOOT MAST ARM. SEE LUMINAIRE SCHEDULE FOR LOCATION, POLE, AND LUMINAIRE DETAILS. SEE WSDOT STANDARD PLAN J-28.10-02 FOR POLE MOUNTING DETAIL (STANDARD GROUND MOUNT) AND J-28.30-03 TYPE B FOR FOUNDATION DETAIL. INSTALL NEW JUNCTION BOX WITH SKID RESISTANT LID.
- 2 FURNISH AND INSTALL NEW WSDOT TYPE D SERVICE CABINET (120/240V SINGLE PHASE, 200 AMP) AT LOCATION SHOWN. SEE WSDOT STANDARD PLAN J-10.21-01. FOUNDATION SHALL BE ADJACENT TO THE BACK OF SIDEWALK. COORDINATE WITH PSE FOR NEW UNDERGROUND SERVICE TO CABINET (4 #2'S). FOUNDATION SHALL CONFORM TO WSDOT STANDARD PLAN J-10.10-04.
- 3 INSTALL NEW PHOTOCELL ON LUMINAIRE #1 AND LUMINAIRE #18.

GENERAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLANS AND SPECIFICATIONS, NATIONAL ELECTRICAL CODE (NEC), PSE DETAILS, CITY OF BURLINGTON STANDARD PLANS, DETAILS, AND THESE PLANS.
- 2. ALL CONDUIT USED FOR THE LIGHTING SYSTEM SHALL BE SCHEDULE 40 PVC, SIZED AS SHOWN ON THE PLANS. PVC SCHEDULE 80 SHALL BE USED ON ROADWAY CROSSINGS OR UNDER VEHICLE TRAFFIC.
- 3. ALL POLES AND MASTARMS SHALL BE HAPCO DAVIT POLE AND LUMINAIRES SHALL BE LEOTEK GCM1.
- 4. ALL WIRE SHALL BE U.S.E. COPPER SIZED PER WIRING SCHEDULE.

LEGEND

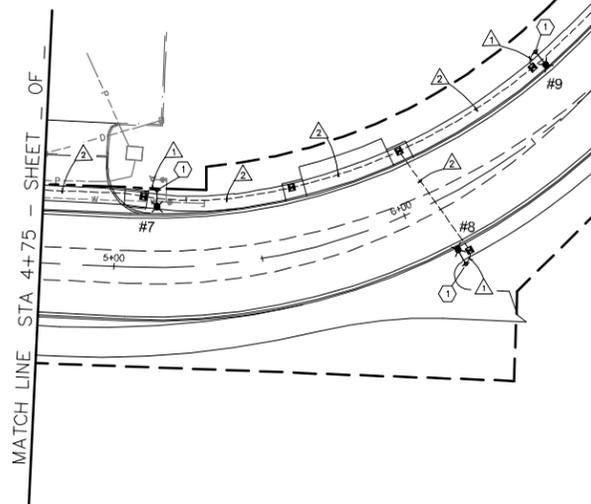
- ☒ TYPE I JUNCTION BOX
- ☒ TYPE II JUNCTION BOX
- ☒ SERVICE CABINET
- ☒ LIGHT STANDARD - SINGLE ARM
- △ WIRE NOTE
- CONSTRUCTION NOTE
- PVC CONDUIT



PANEL SCHEDULE							
NO.	LOCATION: STA. _+_		120/240 VOLTS		1 PHASE 3 WIRE		
S-1	SERVING: EAST-WEST CONNECTION RD.		100 AMP with MAIN BREAKER				
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
A	STREET LIGHTS (1-9)	7.5	20	20	7.5	STREET LIGHTS (10-18)	B
13	GFCI DUPLEX RECEPTACLE	0.5	20	20	1.80	STRIP HEATER	16
			15	15	1.80	PHOTOCELL	
REMARKS:			CONNECTED LOAD:		19.4 KVA	56 AMPS	
			DEMAND LOAD:		KVA	AMPS	

WIRE / CONDUIT SCHEDULE			
RUN NO.	CONDUIT SIZE	CONDUCTORS	COMMENTS
1	2" PVC	2-#10	LIGHTING CIRCUIT
2	2" PVC	2-#8 1-#6	LIGHTING GROUND
3	2" PVC	2-#2	CONNECT TO PSE

LUMINAIRE SCHEDULE											
per plan LUMINAIRE NO.	CIRCUIT NO.	LOCATION		POLE HEIGHT (ft)	MAST ARM (ft)	POLE TYPE	MAST ARM TYPE	LUMINAIRE TYPE	FITTURE TYPE	WATTAGE/TYPE	COMMENTS
		STATION (FEET)	OFFSET (FEET)								
#7	A	5+14	28'L	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM1	COBRA	60W LED	
#8	A	6+11	23'R	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM1	COBRA	60W LED	
#9	A	6+71	22'L	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM1	COBRA	60W LED	
#10	A	7+34	22'R	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM1	COBRA	60W LED	
#11	A	8+15	22'L	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM1	COBRA	60W LED	
#12	A	9+18	22'R	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM1	COBRA	60W LED	
#13	A	10+19	27'L	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM1	COBRA	60W LED	
#14	A	10+67	36'R	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM1	COBRA	60W LED	
#15	A	11+46	31'R	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM1	COBRA	60W LED	
#16	A	11+56	43'L	35	6	HAPCO DAVIT POLE	KA100-8	LEOTEK GCM1	COBRA	60W LED	



E:\0-Gary Norris\2021 - Burlington Blvd Signal Modification\0-Burlington (Lighting-Signal)\1-19-2023\3.dwg - Sheets - Rendle, Dove - 1/20/2023 10:12 AM

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Burlington, WA 98233
 | O: (360) 899-5953 | W: www.tuttle-engineering.com

IN ASSOCIATION WITH **LOCHNER**
 DESCRIPTION:
 ISSUE DATE:
 DESIGNED BY:
 CHECKED BY:

CITY OF BURLINGTON EAST-WEST CONNECTOR ROAD

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

E:\0-Gary Norris\2021 - Burlington Blvd Signal Modification\0-Burlington (Lighting-Signal)\9-21-2022.dwg - Sheets - Rendle, Dove - 9/22/2022 7:00 AM

CONSTRUCTION NOTES

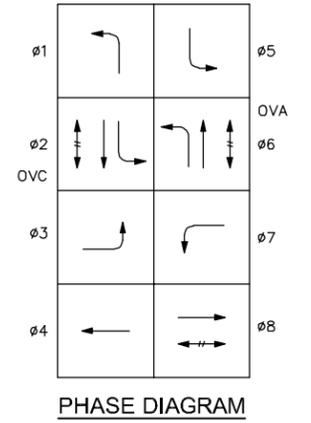
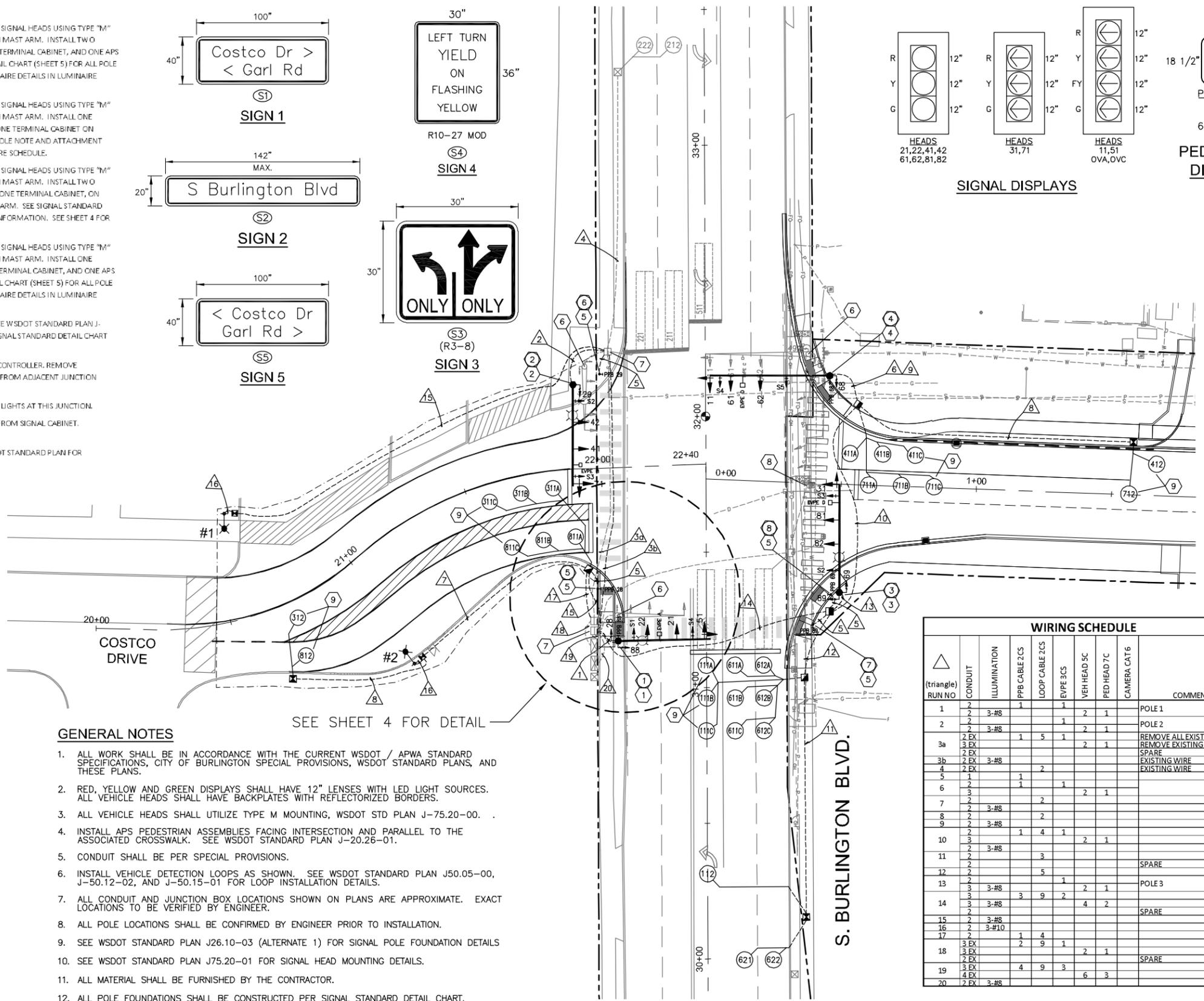
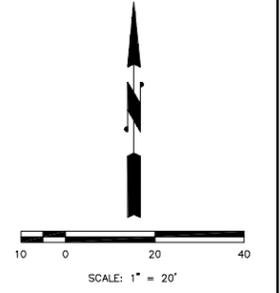
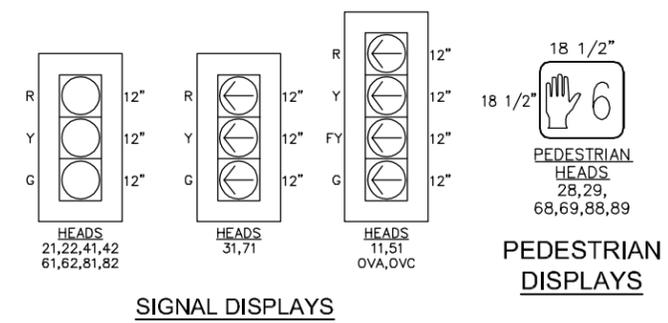
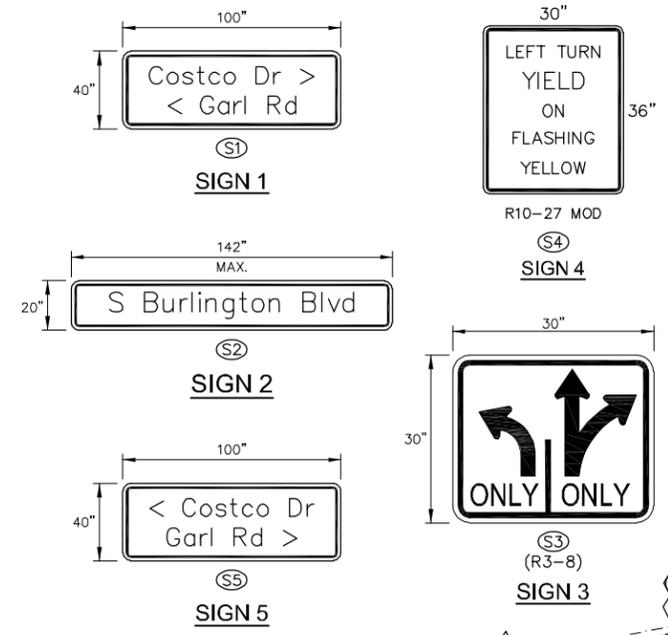
1. INSTALL TYPE III SIGNAL POLE WITH 33 FOOT MAST ARM. INSTALL THREE SIGNAL HEADS USING TYPE "M" BRACKETS, ONE EMERGENCY PRE-EMPTION SENSOR, AND TWO SIGNS ON MAST ARM. INSTALL TWO PEDESTRIAN SIGNAL HEADS USING TYPE "E" MOUNTING BRACKETS, ONE TERMINAL CABINET, AND ONE APS PUSH-BUTTON ASSEMBLY ON SIGNAL POLE. SEE SIGNAL STANDARD DETAIL CHART (SHEET 5) FOR ALL POLE NOTE AND ATTACHMENT POINT INFORMATION. SEE SHEET 4 FOR LUMINAIRE DETAILS IN LUMINAIRE SCHEDULE.
2. INSTALL TYPE III SIGNAL POLE WITH 36 FOOT MAST ARM. INSTALL THREE SIGNAL HEADS USING TYPE "M" BRACKETS, ONE EMERGENCY PRE-EMPTION SENSOR, AND TWO SIGNS ON MAST ARM. INSTALL ONE PEDESTRIAN SIGNAL HEAD USING TYPE "E" MOUNTING BRACKETS, AND ONE TERMINAL CABINET ON SIGNAL POLE. SEE SIGNAL STANDARD DETAIL CHART (SHEET 5) FOR ALL POLE NOTE AND ATTACHMENT POINT INFORMATION. SEE SHEET 4 FOR LUMINAIRE DETAILS IN LUMINAIRE SCHEDULE.
3. INSTALL TYPE III SIGNAL POLE WITH 39 FOOT MAST ARM. INSTALL THREE SIGNAL HEADS USING TYPE "M" BRACKETS, ONE EMERGENCY PRE-EMPTION SENSOR, AND TWO SIGNS ON MAST ARM. INSTALL TWO PEDESTRIAN SIGNAL HEADS USING TYPE "E" MOUNTING BRACKETS, AND ONE TERMINAL CABINET ON SIGNAL POLE. INSTALL ONE VIDEO SURVEILLANCE CAMERA ON LUMINAIRE ARM. SEE SIGNAL STANDARD DETAIL CHART (SHEET 5) FOR ALL POLE NOTE AND ATTACHMENT POINT INFORMATION. SEE SHEET 4 FOR LUMINAIRE DETAILS IN LUMINAIRE SCHEDULE.
4. INSTALL TYPE III SIGNAL POLE WITH 50 FOOT MAST ARM. INSTALL THREE SIGNAL HEADS USING TYPE "M" BRACKETS, ONE EMERGENCY PRE-EMPTION SENSOR, AND TWO SIGNS ON MAST ARM. INSTALL ONE PEDESTRIAN SIGNAL HEAD USING TYPE "E" MOUNTING BRACKETS, ONE TERMINAL CABINET, AND ONE APS PUSH-BUTTON ASSEMBLY ON SIGNAL POLE. SEE SIGNAL STANDARD DETAIL CHART (SHEET 5) FOR ALL POLE NOTE AND ATTACHMENT POINT INFORMATION. SEE SHEET 4 FOR LUMINAIRE DETAILS IN LUMINAIRE SCHEDULE.
5. INSTALL ONE TYPE PPB POLE WITH ONE APS PUSHBUTTON ASSEMBLY. SEE WSDOT STANDARD PLAN J-20.10-04. BUTTON ARROW SHALL POINT TOWARDS CROSSWALK. SEE SIGNAL STANDARD DETAIL CHART (SHEET 5) FOR ALL POLE NOTE AND ATTACHMENT POINT INFORMATION.
6. REMOVE EXISTING SIGNAL POLE AND ALL ATTACHMENTS, AND WIRE TO CONTROLLER. REMOVE FOUNDATION TO 1' BELOW GRADE. REMOVE EXISTING CONDUIT SWEEP FROM ADJACENT JUNCTION BOX.
7. SPLICE NEW INTERSECTION STREET LIGHTS AND TWO COSTCO DR STREET LIGHTS AT THIS JUNCTION.
8. REMOVE EXISTING TYPE PS POLE AND JUNCTION BOXES. REMOVE WIRE FROM SIGNAL CABINET. REMOVE FOUNDATION.
9. INSTALL NEW TYPE 3 INDUCTION LOOPS PER LOOP SCHEDULE. SEE WSDOT STANDARD PLAN FOR TYPE 3S (STOP BAR) AND TYPE 3A (ADVANCE) DETECTION DETAIL.

LEGEND

- EXISTING TYPE I JUNCTION BOX
- EXISTING TYPE II JUNCTION BOX
- EXISTING TYPE III JUNCTION BOX
- NEW TYPE I JUNCTION BOX
- NEW TYPE II JUNCTION BOX
- NEW TYPE 8 JUNCTION BOX
- NEW TYPE III SIGNAL POLE
- EXISTING SIGNAL POLE
- EXISTING CONTROLLER CABINET AND PAD
- EXISTING SERVICE CABINET
- EXISTING VEHICLE SIGNAL HEAD
- NEW VEHICLE SIGNAL HEAD
- EXISTING PEDESTRIAN SIGNAL HEAD
- NEW PEDESTRIAN SIGNAL HEAD
- NEW TYPE PPB PED POLE
- EXISTING CONDUIT (OR REWIRED EXISTING)
- NEW CONDUIT
- EMERGENCY PRE EMPTION DETECTOR
- NEW SIGN
- SIGN NOTE
- EXISTING 6"x50' QUADRAPOLE LOOP
- 6"x6" DIA. LOOP
- CONSTRUCTION NOTE
- POLE NOTE
- WIRE NOTE
- EXISTING RIGHT OF WAY
- COSTCO RD MAINTENANCE EASEMENT

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT WSDOT / APWA STANDARD SPECIFICATIONS, CITY OF BURLINGTON SPECIAL PROVISIONS, WSDOT STANDARD PLANS, AND THESE PLANS.
2. RED, YELLOW AND GREEN DISPLAYS SHALL HAVE 12" LENSES WITH LED LIGHT SOURCES. ALL VEHICLE HEADS SHALL HAVE BACKPLATES WITH REFLECTORIZED BORDERS.
3. ALL VEHICLE HEADS SHALL UTILIZE TYPE M MOUNTING, WSDOT STD PLAN J-75.20-00.
4. INSTALL APS PEDESTRIAN ASSEMBLIES FACING INTERSECTION AND PARALLEL TO THE ASSOCIATED CROSSWALK. SEE WSDOT STANDARD PLAN J-20.26-01.
5. CONDUIT SHALL BE PER SPECIAL PROVISIONS.
6. INSTALL VEHICLE DETECTION LOOPS AS SHOWN. SEE WSDOT STANDARD PLAN J50.05-00, J-50.12-02, AND J-50.15-01 FOR LOOP INSTALLATION DETAILS.
7. ALL CONDUIT AND JUNCTION BOX LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. EXACT LOCATIONS TO BE VERIFIED BY ENGINEER.
8. ALL POLE LOCATIONS SHALL BE CONFIRMED BY ENGINEER PRIOR TO INSTALLATION.
9. SEE WSDOT STANDARD PLAN J26.10-03 (ALTERNATE 1) FOR SIGNAL POLE FOUNDATION DETAILS.
10. SEE WSDOT STANDARD PLAN J75.20-01 FOR SIGNAL HEAD MOUNTING DETAILS.
11. ALL MATERIAL SHALL BE FURNISHED BY THE CONTRACTOR.
12. ALL POLE FOUNDATIONS SHALL BE CONSTRUCTED PER SIGNAL STANDARD DETAIL CHART.



WIRING SCHEDULE									
CONDUIT	ILLUMINATION	PPB CABLE 2CS	LOOP CABLE 2CS	EVPE 3CS	VEH HEAD 5C	PED HEAD 7C	CAMERA CAT 6	COMMENT	
1	2	3-#8	1	1	2	1			POLE 1
2	2	3-#8		1	2	1			POLE 2
3a	2 EX	3-#8	1	5	1	2	1		REMOVE ALL EXISTING WIRE
3b	2 EX	3-#8							REMOVE EXISTING WIRE
4	2 EX	3-#8		2					SPARE
5	1		1						EXISTING WIRE
6	2		1	1					EXISTING WIRE
7	2	3-#8		2		2	1		
8	2	3-#8		2					
9	2	3-#8							
10	2		1	4	1				
11	2	3-#8		3					SPARE
12	2			5					
13	2	3-#8		1		2	1		POLE 3
14	3	3-#8	3	9	2	4	2		
15	2	3-#8							SPARE
16	2	3-#10							
17	2		1	4					
18	3 EX		2	9	1				
19	3 EX		4	9	3				SPARE
20	2 EX	3-#8				6	3		

LOOP SCHEDULE			
Loop	Station +	Offset +	description
111A	31+08	0'	stop bar new
111B	30+96	0'	stop bar new
111C	30+84	0'	stop bar new
112	30+31	0'	advance new
211	-	-	stop bar existing
212	-	-	advance existing
221	-	-	stop bar existing
222	-	-	advance existing
311A	20+83	6.5 R	stop bar new
311B	20+70	6.5 R	stop bar new
311C	21+57	6.5 R	stop bar new
312	20+73	6.5 R	advance new
411A	0+53	11.4 L	stop bar new
411B	0+65	11.4 L	stop bar new
411C	0+77	11.4 L	stop bar new
412	1+66	11.5 L	advance new
511	-	-	stop bar existing
611A	31+08	10.5 R	stop bar new
611B	30+96	10.5 R	stop bar new
611C	30+84	10.5 R	stop bar new
612A	31+08	21 R	stop bar new
612B	30+96	21 R	stop bar new
612C	30+84	21 R	stop bar new
621	30+00	13.5 R	advance new
622	30+00	24 R	advance new
711A	0+60	0'	stop bar new
711B	0+72	0'	stop bar new
711C	0+84	0'	stop bar new
712	1+56	0'	advance new
811A	21+91	25 R	stop bar new
811B	20+76	25 R	stop bar new
811C	20+61	25 R	stop bar new
812	20+70	20.5 R	advance new

* to center of loop

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Burlington, WA 98233
 | O: (360) 899-5953 | W: www.tuttle-4em.com

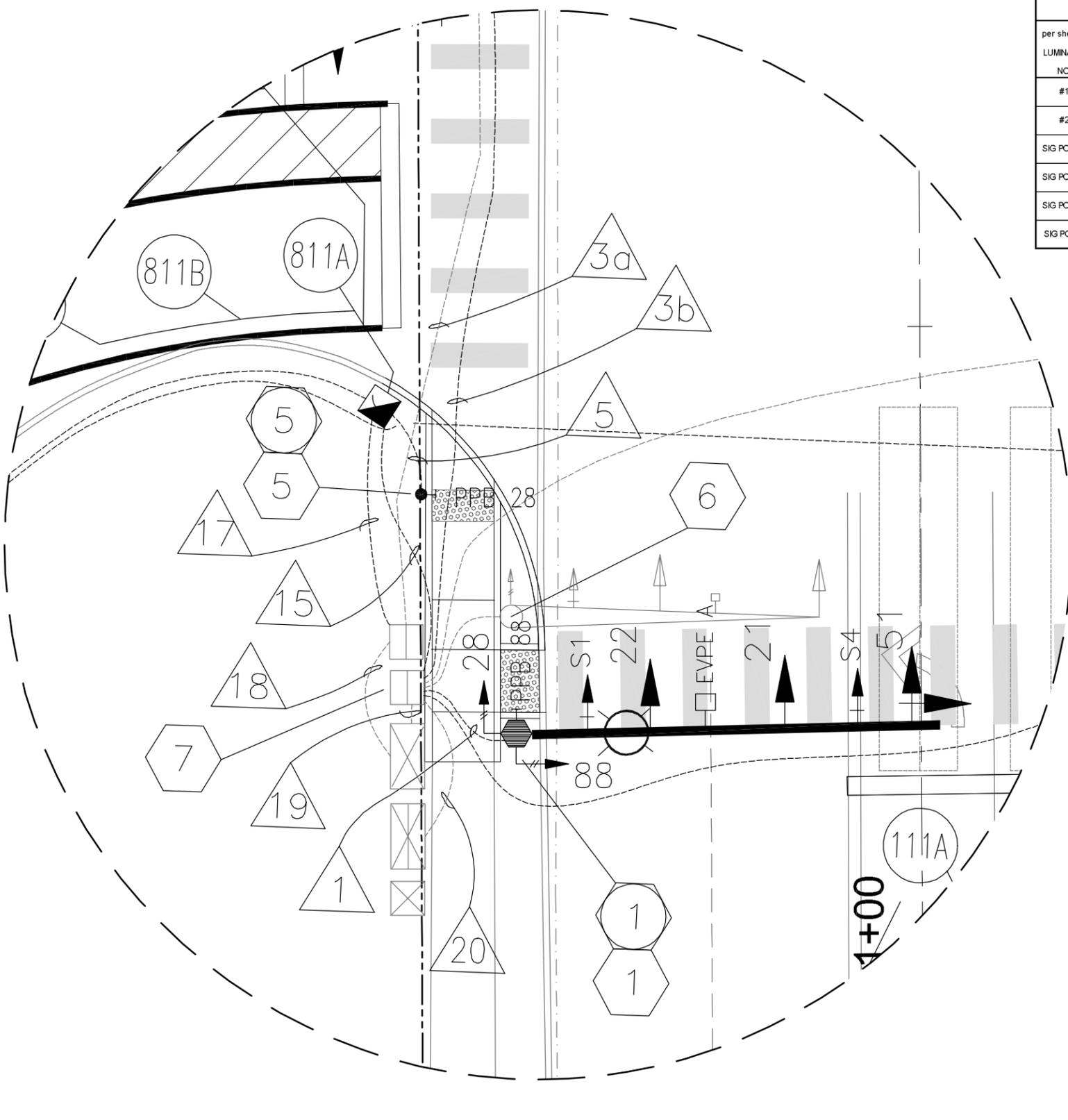


IN ASSOCIATION WITH **LOCHNER**
 DESCRIPTION:
 ISSUE DATE:
 DESIGNED BY:
 CHECKED BY:

CITY OF BURLINGTON EAST-WEST CONNECTOR ROAD
 SIGNAL PLAN
 3

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT RESERVE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

E:\0-Cory Norris\2021 - Burlington Blvd Signal Modification\0-Burlington (Lighting-Signal)(9-21-2022).dwg - Sheets - Rendle, Dove - 9/21/2022 12:09 PM

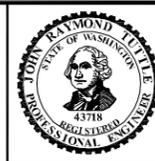


LUMINAIRE SCHEDULE (FOR SHEET 3 ONLY)

per sheet 3 LUMINAIRE NO.	CIRCUIT NO.	LOCATION		POLE HEIGHT (ft)	MAST ARM (ft)	POLE TYPE	MAST ARM TYPE	LUMINAIRE TYPE	FIXTURE TYPE	WATTAGE/TYPE	COMMENTS
		STATION (FEET)	OFFSET (FEET)								
#1	1	0+51	31' L	35	8	P-325-BPO-G-S	KA100-8	GCM3-60J-MV-4K-4	COBRA	60W LED	COSTCO DR (WITH MAINTENANCE AGREEMENT) PHOTOCELL ON LUMINAIRE HOUSING
#2	1	1+39	29' R	35	8	HAPCO DAVIT POLE	KA100-8	GCM3-60J-MV-4K-4	COBRA	60W LED	COSTCO DR (WITH MAINTENANCE AGREEMENT) PHOTOCELL ON LUMINAIRE HOUSING
SIG POLE 1	2	31+17	33' L	35	12	SIG POLE	SIG POLE ARM	GCM3-60J-MV-4K-4	COBRA	60W LED	ON SIGNAL POLE 1 PHOTOCELL ON LUMINAIRE HOUSING
SIG POLE 2	2	32+12	49' L	35	12	SIG POLE	SIG POLE ARM	GCM3-60J-MV-4K-4	COBRA	60W LED	ON SIGNAL POLE 2 PHOTOCELL ON LUMINAIRE HOUSING
SIG POLE 3	2	31+35	49' R	35	12	SIG POLE	SIG POLE ARM	GCM3-60J-MV-4K-4	COBRA	60W LED	ON SIGNAL POLE 3 PHOTOCELL ON LUMINAIRE HOUSING
SIG POLE 4	2	32+15	46' R	35	12	SIG POLE	SIG POLE ARM	GCM3-60J-MV-4K-4	COBRA	60W LED	ON SIGNAL POLE 4 PHOTOCELL ON LUMINAIRE HOUSING

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:
 833 S. SPRUCE STREET BURLINGTON, WA 98233



IN ASSOCIATION WITH **LOCHNER**
 DESCRIPTION:
 ISSUE DATE:
 DESIGNED BY:
 CHECKED BY:

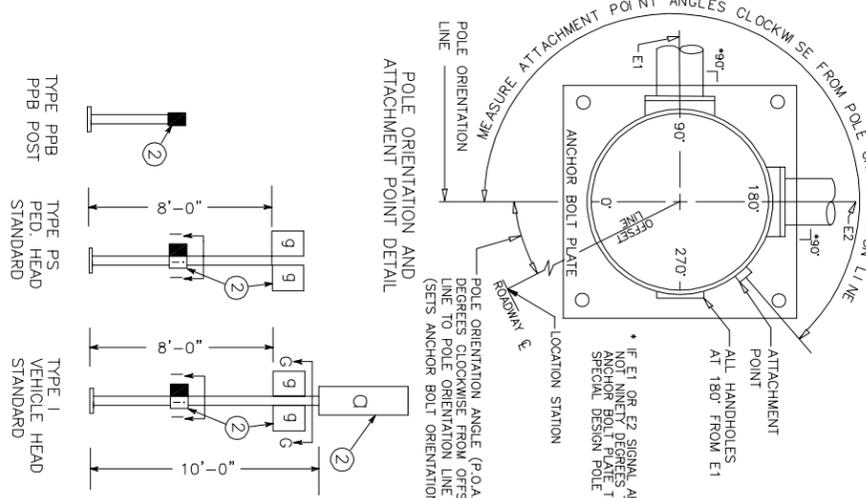
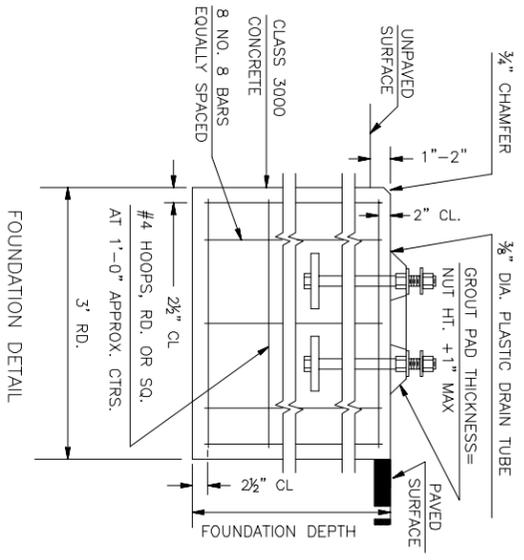
CITY OF BURLINGTON EAST-WEST CONNECTOR ROAD
 SIGNAL BLOW UP DETAIL

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

FOUNDATION DEPTH TABLE

ALLOWABLE LATERAL BEARING PRESSURE (PSF)	FOUNDATION TYPE	XYZ (CUBIC FEET)													
		TYPE III	AND SD	MAST	STANDARDS										
1,000	3' ROUND	10'	10'	11'	11'	13'	13'	15'	15'	17'	17'	19'	19'	21'	21'
1,500	3' ROUND	8'	8'	9'	9'	10'	10'	11'	11'	13'	13'	15'	15'	17'	17'
2,500	3' ROUND	6'	6'	7'	7'	8'	8'	9'	9'	11'	11'	13'	13'	15'	15'

THIS TABLE BASED ON A 0.25' DIA. PLASTIC DRAIN TUBE WITH 1/2" DIA. NUTS AND 1/2" DIA. BOLTS. DOUBLE MAST ARM STANDARDS SELECTION. A SPECIAL FOUNDATION DESIGN IS REQUIRED FOR DOUBLE ARM STANDARDS IF THE ANGLE IS NOT 90°.



SIGNAL STANDARD DETAIL CHART

SR No.	MILE POST	FIELD STATION	LOCATION OFFSET (ft. RT. / L. / P.O.A.)	TYPE	MOUNTING HEIGHT (FT)		SIGNAL MAST ARM DATA										REMARKS																		
					A1	A2	B1	B2	B3	B4	B5	B6	B11	B1	B2	B3		B4	B6	B11	TOTAL (FT) ¹	LUMINAIRE ARM (FT)	C	D	E1	E2	F	G1	G2	H	I1	I2	FOUNDATION DEPTH (FT)	3' sq.	4' sq.
1	-	31+17	33' X	0	III	17.8	35	32	29	21	-	-	-	-	-	-	-	9.2	27.8	111.4	12	0	0	-	90	180	180	270	-	11	9	9	35	FOOT MAST ARM (MEASURE FROM CENTERLINE OF POLE)	
2	-	32+12	49' X	90	III	17.5	35	34	30	24	-	-	-	-	-	-	-	9.2	19.7	102.6	12	90	90	-	270	-	180	-	11	9	9	35	FOOT MAST ARM (MEASURE FROM CENTERLINE OF POLE)		
3	-	31+35	49' X	90	III	17.5	35	39	32	25	-	-	-	-	-	-	-	9.2	19.7	113.4	12	90	90	-	90	180	180	-	11	9	9	40	FOOT MAST ARM (MEASURE FROM CENTERLINE OF POLE)		
4	-	32+15	46' X	0	III	17	35	45	41	33	-	-	-	-	-	-	-	9.2	27.8	162.3	12	0	0	-	180	-	180	270	-	13	11	11	48	FOOT MAST ARM (MEASURE FROM CENTERLINE OF POLE)	
5	-	31+34	39' X	-	PPB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FIELD INSTALL PED BUTTON	
6	-	32+16	39' X	-	PPB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FIELD INSTALL PED BUTTON	
7	-	31+24	40' X	-	PPB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FIELD INSTALL PED BUTTON	
8	-	31+34	46' X	-	PPB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FIELD INSTALL PED BUTTON	
9																																			
10																																			
11																																			
12																																			

- NOTES
- MOUNTING COUPLING INSTALLED AT OFFSET DISTANCE INDICATED IN CHART.

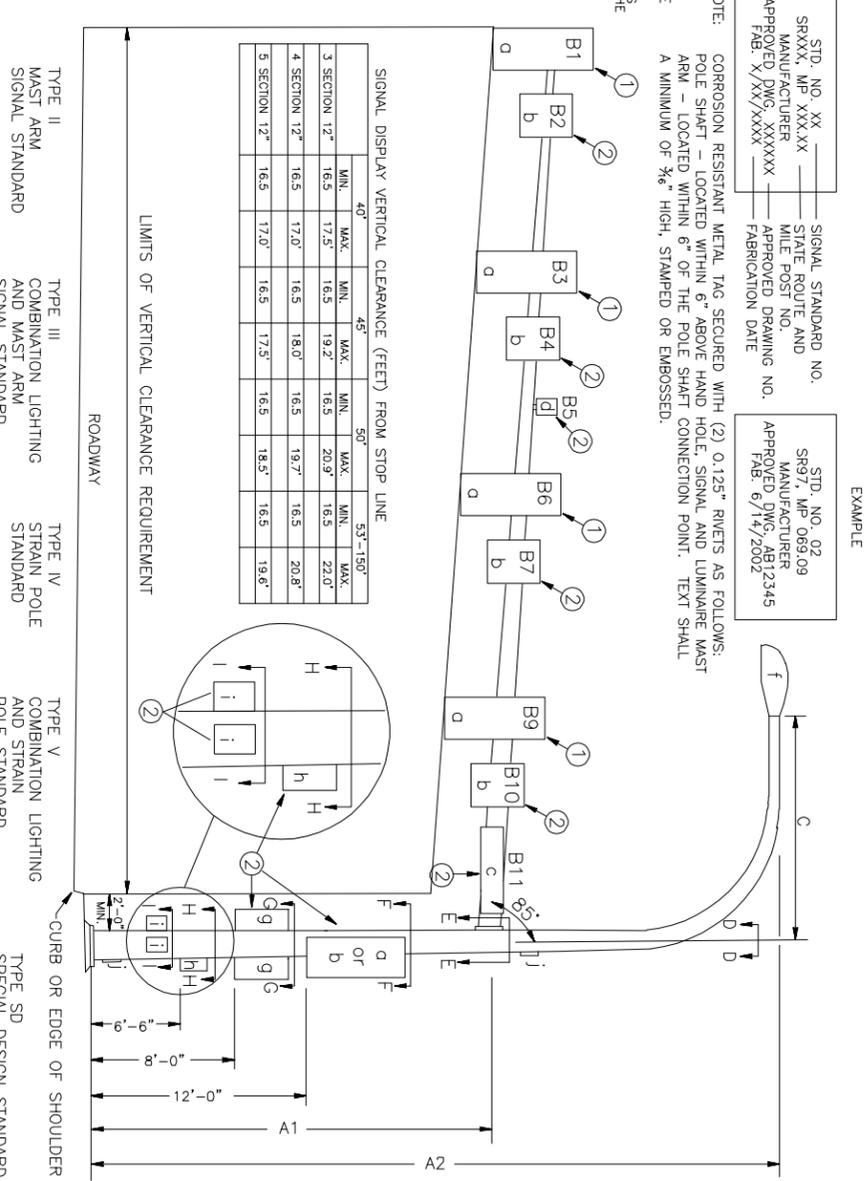
ALTERNATE NOTE 1
FOR TYPE N MOUNT ONLY
DRILL 1" HOLE IN MAST ARM AND
INSTALL PLASTIC SPLIT BUSHING
FOR CABLE ENTRANCE.

- FIELD INSTALLED.

- TENON FOR FUTURE USE. ALL FUTURE TENONS SHALL BE CAPPED/FIELD INSTALLED.

- BASED ON A SOIL BEARING PRESSURE OF 1,000 PSF.

SIGNAL STANDARD IDENTIFICATION TAG DETAIL



REVISION	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

PREPARED FOR:

TUTTLE ENGINEERING AND MANAGEMENT

77 N. MARKET STREET, SUITE 200, BURLINGTON, VA 22623
P: (540) 598-5251 | F: (540) 598-5251 | WWW.TUTTLE-ENGINEERING.COM

IN ASSOCIATION WITH **LOCHNER**

CITY OF BURLINGTON EAST-WEST CONNECTOR ROAD

WIRE DIAGRAM

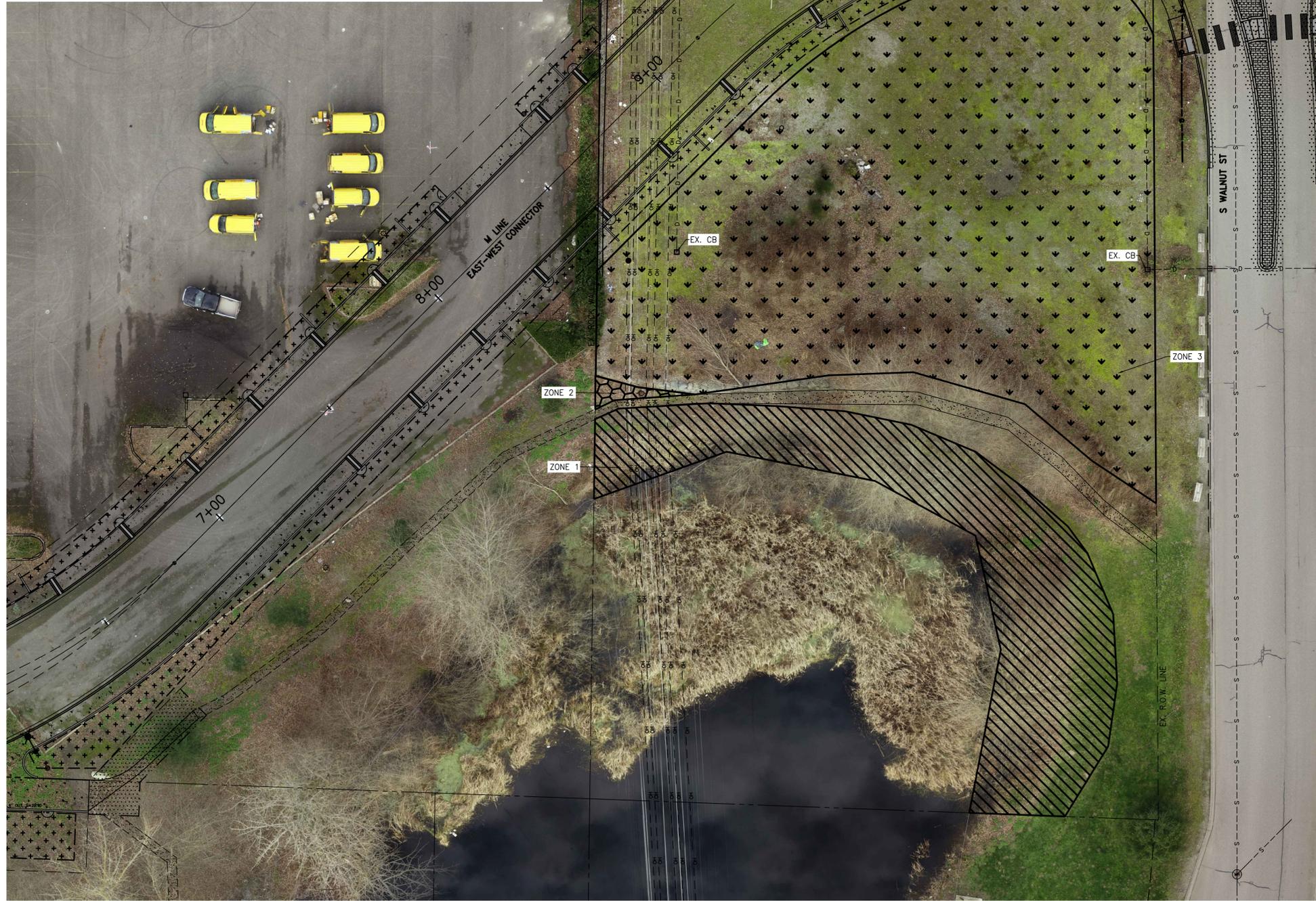
5

SITE PREPARATION NOTE

1. REMOVE ALL LITTER AND WASTE DEBRIS FROM PLANTING AREAS PRIOR TO INITIATION OF PLANTING WORK.
2. REMOVE ALL EXISTING UTILITIES REQUIRING DEMOLITION PRIOR TO INITIATION OF PLANTING WORK.
3. AVOID IMPACTS TO UTILITIES THAT WILL REMAIN AFTER CONSTRUCTION.

GENERAL NOTES

1. THE PLANTING AREA INCLUDES THE ENTIRE GROUND SURFACE REGARDLESS OF SURFACE COVER BETWEEN PLANTS.
2. VERIFY PERMITTING REQUIREMENTS WITH THE CITY OF BURLINGTON PRIOR TO PLANTING.
3. FOR A NATURAL APPEARANCE, SPACE ALL PLANTS IRREGULARLY AT THE DESIGNATED LOCATIONS AND SPACING.
4. INTERMIX SPECIES IN GROUPS OF THREE, FIVE, OR SEVEN.
5. PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2001) FOR PLANT SIZE AND CONDITION.
6. PLANT MATERIAL SHALL BE LOCALLY GROWN (PUGET SOUND REGION) AND SHALL BE IN A HEALTHY AND VIGOROUS GROWING CONDITION.
7. PLANTS LOCATED ON THE PLAN ARE SCHEMATIC AND MAY NEED ADJUSTMENT TO MEET ACTUAL FIELD CONDITIONS. WHEN A CONFLICT WITH FIELD CONDITIONS IS APPARENT, CONSULT WITH THE PROJECT BIOLOGIST.



PLANTING ZONES:

ZONE 1
AREA BETWEEN WETLAND AND WALKING TRAIL AND AROUND WETLAND PERIMETER AS SHOWN.

▨ TOTAL AREA = 6,475 S.F.

REMOVE INVASIVE VEGETATION AND EVENLY SPREAD FOUR (4) INCHES OF WOOD CHIPS OR MULCH.

ZONE 2
AREA BETWEEN WALKING TRAIL AND EXISTING GRAVEL LOT.

▩ TOTAL AREA = 190 S.F.

REMOVE INVASIVE VEGETATION, INTER-PLANT NATIVE SHRUBS, AND EVENLY SPREAD FOUR (4) INCHES OF WOOD CHIPS OR MULCH.

ZONE 3
EXISTING GRAVEL LOT.

▼ TOTAL AREA = 19,905 S.F.

SCRAPE AND EXPORT FOUR (4) INCHES OF GRAVEL SURFACING AND EVENLY SPREAD SIX (6) INCHES OF LOOSE COMPOST (SETTLED DEPTH OF FOUR (4) INCHES). ROTO-TILL 12-INCH DEPTH OF SETTLED COMPOST AND NATIVE GROUND OVER WHOLE PLANTING AREA. PLANT WITH NATIVE TREES AND SHRUBS. PLANTING TO AVOID DAMAGE TO EXISTING UTILITIES IN GRAVEL LOT. COVER PLANTING AREA EVENLY WITH SIX (6) INCHES OF WOOD CHIPS OR MULCH.

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-11-SHEET-MP.dwg - MP1 - Bull, Gage - 1/25/2023 3:08 PM

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

 CITY OF **Burlington**
SKAGIT COUNTY, WASHINGTON INCORPORATED 1902
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | P: (360) 899-5953 | W: www.tuttle-team.com

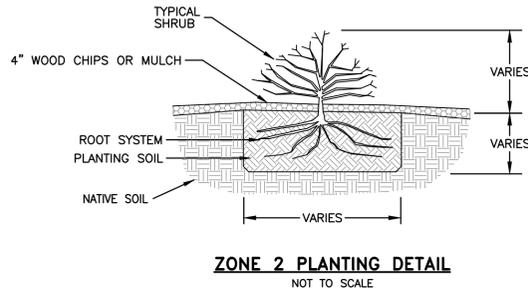
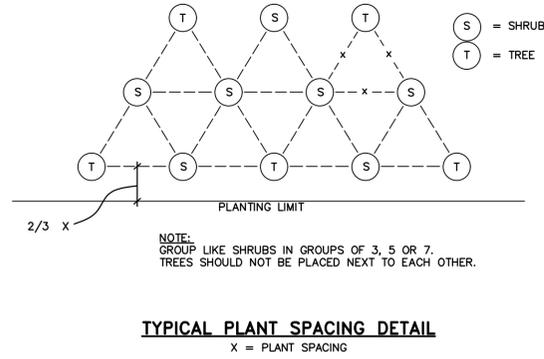
IN ASSOCIATION WITH **LOCHNER**
 DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: MATT RANDALL, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
 MITIGATION PLANTING PLAN

MP1

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BLV\PR\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-11-SHEET-MP.dwg -- MP2 -- Bull, Gage -- 1/25/2023 3:10 PM



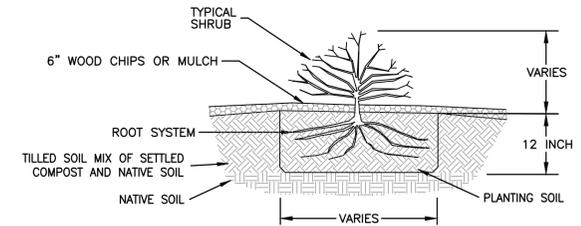
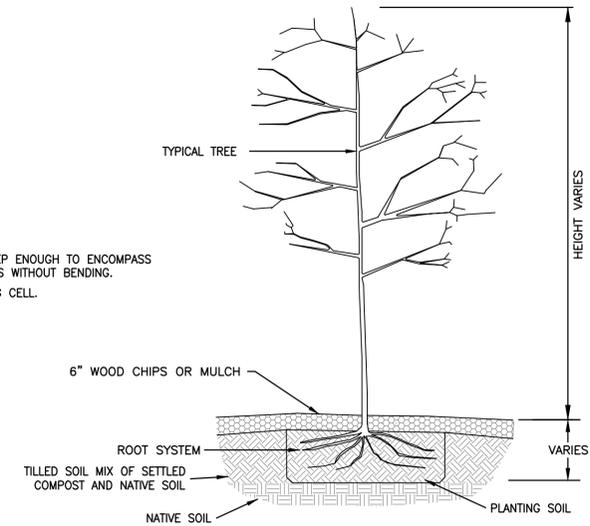
	COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING (FT)	ZONE2 QTY	ZONE3 QTY	TOTAL
TREES	DOUGLAS FIR	PSEUDOTSUGA MENIESII	1-GAL	10		90	90
TOTAL TREES						90	90
SHRUBS	OCEAN SPRAY	HOLIDISCUS DISCOLOR	1-GAL	5	2	98	100
	SNOWBERRY	SYMPHORICARPOS ALBUS	1-GAL	5	2	98	100
	SALAL	GAULTHERIA SHALLON	1-GAL	5	2	98	100
	RED FLOWERING CURRANT	RIBES SANQUINIUM	1-GAL	5	2	98	100
	SALMONBERRY	RUBUS SPECTABILIS	1-GAL	5	2	78	80
	RED-OSIER DOGWOOD	CORNUS SERICEA	1-GAL	5	2	78	80
TOTAL SHRUBS	SWORD FERN	POLYSTICHUM MUNITUM	4" POT	3	8	232	240
					20	780	800

TREE AND SHRUB PLANTING SCHEDULE
SEE SHEET MP1 FOR PLANTING AREAS

GENERAL NOTES

1. THE PLANTING AREA INCLUDES THE ENTIRE GROUND SURFACE REGARDLESS OF SURFACE COVER BETWEEN PLANTS.
2. VERIFY PERMITTING REQUIREMENTS WITH THE CITY OF BURLINGTON PRIOR TO PLANTING.
3. FOR A NATURAL APPEARANCE, SPACE ALL PLANTS IRREGULARLY AT THE DESIGNATED LOCATIONS AND SPACING.
4. INTERMIX SPECIES IN GROUPS OF THREE, FIVE, OR SEVEN.
5. PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2001) FOR PLANT SIZE AND CONDITION.
6. PLANT MATERIAL SHALL BE LOCALLY GROWN (PUGET SOUND REGION) AND SHALL BE IN A HEALTHY AND VIGOROUS GROWING CONDITION.
7. PLANTS LOCATED ON THE PLAN ARE SCHEMATIC AND MAY NEED ADJUSTMENT TO MEET ACTUAL FIELD CONDITIONS. WHEN A CONFLICT WITH FIELD CONDITIONS IS APPARENT, CONSULT WITH THE PROJECT BIOLOGIST.

- NOTES:**
1. PLANTING PIT SHALL BE DEEP ENOUGH TO ENCOMPASS ROOT BALL OR PLANT ROOTS WITHOUT BENDING.
 2. SCARIFY WALLS OF PLANTING CELL.



REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



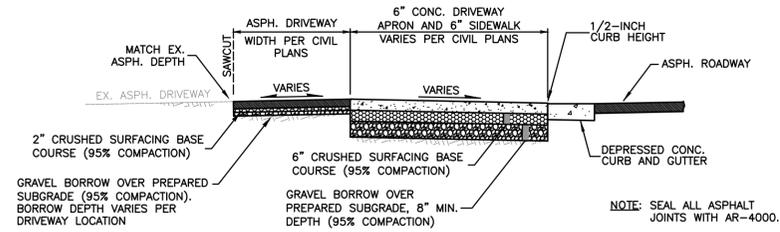
IN ASSOCIATION WITH	LOCHNER
DESCRIPTION:	100% DESIGN
ISSUE DATE:	JANUARY 9, 2023
DESIGNED BY:	JOHN R. TUTTLE, P.E.
CHECKED BY:	JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
MITIGATION PLANTING DETAILS

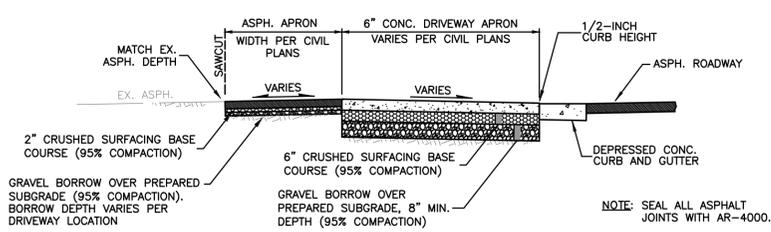
MP2

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

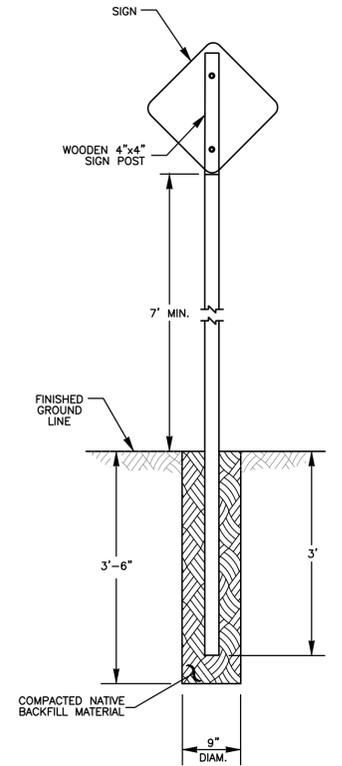
D:\East-West Connector\7_Engineering\CADD\Plans - MOVED TO I DRIVE_01.09.2023\16615-12-SHEET-DETAILS.dwg - DT1 - Tuttle, John - 1/17/2023 11:25 AM



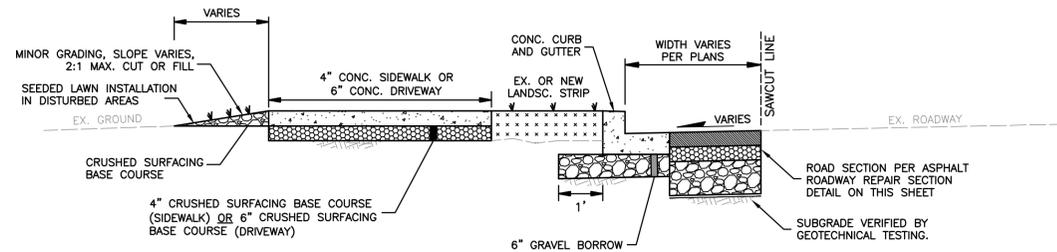
DRIVEWAY INSTALLATION DETAIL 1
FOR DRIVEWAYS 1 AND 3
NTS



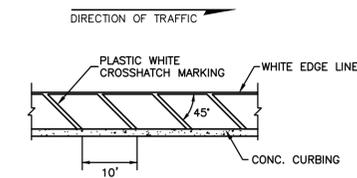
PARCEL ACCESS INSTALLATION DETAIL 2
FOR DRIVEWAYS 2, 4, 5, AND 6
NTS



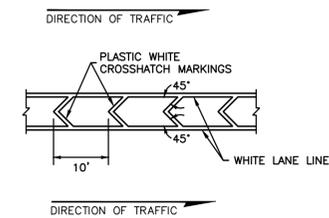
SIGN INSTALLATION DETAIL 6
NTS



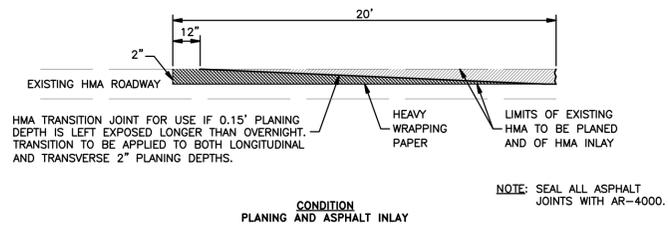
ROADWAY WIDENING DETAIL 3
NTS



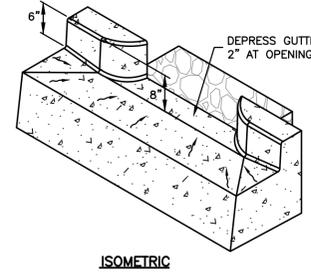
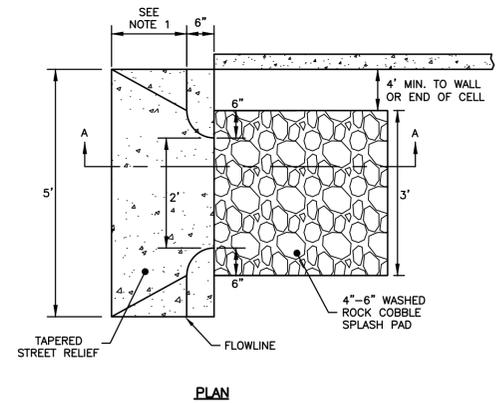
TRAFFIC BARRIER CROSSHATCH DETAIL 4
NTS



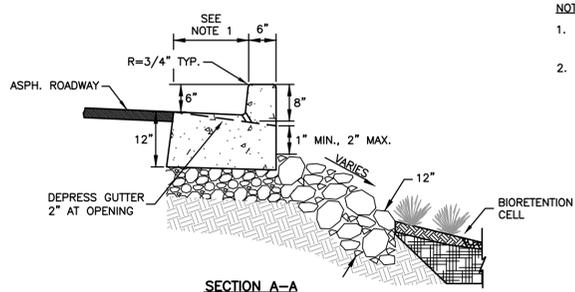
DIVIDER CROSSHATCH DETAIL 5
NTS



PLANING TRANSITION DETAIL - INLAY AND OVERLAY 7
NTS

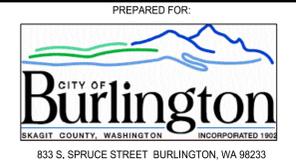


CURB NOTCH DETAIL 8
NTS



- NOTES:**
1. MATCH GUTTER PAN WIDTH OF ADJACENT CURB AND GUTTER.
 2. SPLASH PAD ELEVATION SHALL BE LEVEL WITH SOIL INSIDE PLANTER.

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		



IN ASSOCIATION WITH	LOCHNER
DESCRIPTION:	100% DESIGN
ISSUE DATE:	JANUARY 9, 2023
DESIGNED BY:	JOHN R. TUTTLE, P.E.
CHECKED BY:	JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

PROJECT DETAILS

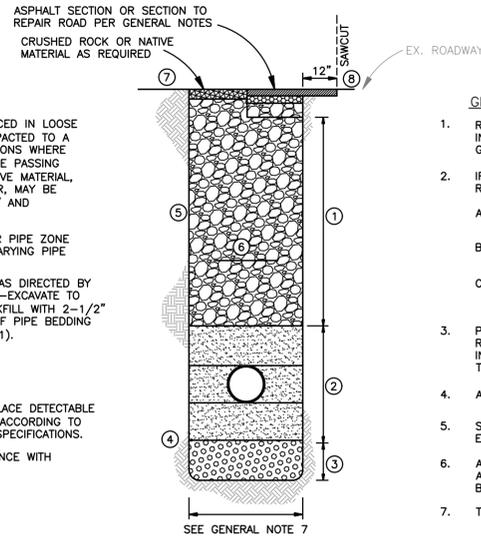
DT1

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

D:\East-West Connector\7_Engineering\CADD\Plans - MOVED TO I DRIVE_01092023\16615-12-SHEET-DETAILS.dwg - DT2 - Tuttle, John - 1/17/2023 11:25 AM

TRENCH NOTES

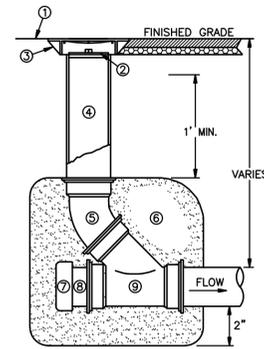
- ① GRAVEL BORROW, PER SECTION 9-03.14, PLACED IN LOOSE LIFTS NOT EXCEEDING 8" IN DEPTH AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY AT LOCATIONS WHERE REQUIRED AND/OR SPECIFIED. THE PERCENTAGE PASSING THE #200 SIEVE SHALL NOT EXCEED 5%. NATIVE MATERIAL, WHERE DEEMED ACCEPTABLE BY THE ENGINEER, MAY BE USED IF PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO A MINIMUM OF 90%.
- ② SEE WSDOT STANDARD PLAN B-55.20-02 FOR PIPE ZONE BEDDING AND BACKFILL REQUIREMENTS FOR VARYING PIPE SIZES AND MATERIALS.
- ③ IN TRENCHES WITH SOFT, YIELDING MATERIAL, AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL OVER-EXCAVATE TO ONE-FOOT BELOW THE PIPE INVERT AND BACKFILL WITH 2-1/2" MINUS BALLAST AGGREGATE TO THE BOTTOM OF PIPE BEDDING PER WSDOT STANDARD SPECIFICATION 9-03.9(1).
- ④ UNDISTURBED STABLE EARTH.
- ⑤ TRENCH LINE.
- ⑥ IN WATER AND SANITARY SEWER TRENCHES, PLACE DETECTABLE MARKING TAPE (MIN. ONE-FOOT ABOVE PIPE) ACCORDING TO SECTION 9-15.18 OF THE WSDOT STANDARD SPECIFICATIONS.
- ⑦ SURFACE RESTORATION SHALL BE IN ACCORDANCE WITH GENERAL NOTE 1.



TYPICAL PIPE TRENCH DETAIL 1
FOR WATER, SEWER, AND STORM LINES NTS

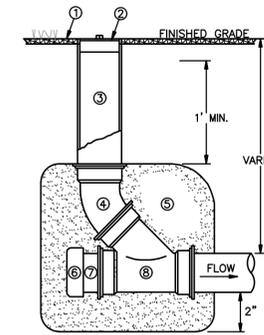
GENERAL NOTES

1. RESTORATION SHALL CONSIST OF REMOVING ALL ROCKS GREATER THAN 1" IN DIAMETER, BLENDING THE TOP OF THE TRENCH WITH THE SURROUNDING GRADE AND REMOVING ALL SPOILS FROM THE SITE.
2. IF THE EXISTING ASPHALT ROADWAY OR PARKING AREAS ARE DISTURBED, REPAIR ACCORDING TO THE FOLLOWING REQUIREMENTS:
 - A. 3" OF HOT MIX ASPHALT PER SECTION 5-04, COMPACTED TO 92% RICE DENSITY PER THE WSDOT STANDARD SPECIFICATIONS.
 - B. 3" OF 5/8" MINUS CRUSHED SURFACING BASE COURSE PER SECTION 9-03.9(3), COMPACTED TO 95% OF MAXIMUM DENSITY.
 - C. 12" MIN. OF GRAVEL BORROW PER SECTION 9-03.14, AS NECESSARY TO PREPARE THE PAVEMENT SECTION, COMPACTED TO 95% OF MAXIMUM DENSITY. PLACE IN LOOSE LIFTS NOT EXCEEDING EIGHT INCHES.
3. PIPE BEDDING AND COVER MATERIAL SHALL BE USED IN ALL TRENCHES REGARDLESS OF LOCATION. GRAVEL BORROW TRENCH BACKFILL SHALL BE USED IN ALL TRENCHES UNDER CRUSHED ROCK, CONSTRUCTION, AND PERMANENT TRAFFIC AREAS, AND WITHIN FOUR FEET OF THE ABOVE-MENTIONED LOCATIONS.
4. ANY SPECIAL CONDITIONS MUST FIRST BE APPROVED BY THE ENGINEER.
5. SAWCUT EXISTING ASPHALT ONE-FOOT BEYOND EDGE OF TRENCH. TACK COAT EDGE OF SAWCUT AND SEAL JOINT WITH CSS-1 AND SAND, APPLIED WITH HEAT.
6. ALL DENSITIES FOR GRAVEL SHALL BE PROCTORED USING ASTM D-1557 TESTING. ASPHALT SHALL BE PROCTORED USING STATE APPROVED METHODS. DENSITIES SHALL BE DETERMINED USING A NUCLEAR DENSOMETER CONFORMING TO ASTM D-2950.
7. TRENCH WIDTH SHALL BE PER WSDOT STANDARD SPECIFICATION 2-09.4.



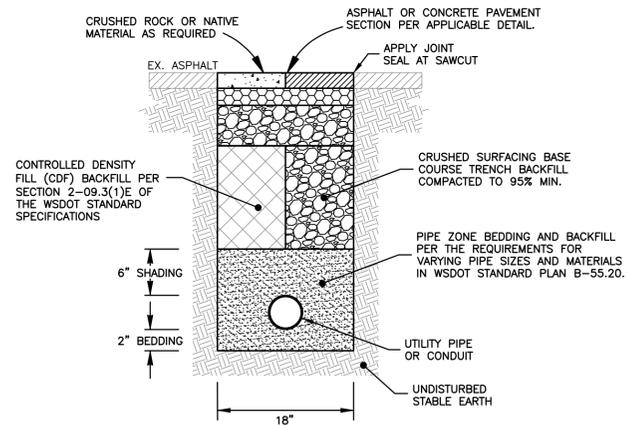
- ① RESTORATION SHALL BE IN ACCORDANCE WITH GENERAL NOTE 1 ON DETAIL 1 FOUND ON THIS PLAN SHEET
- ② THREADED PVC PLUG
- ③ ALUMINUM OR CAST IRON FOG-TIGHT VALVE CASING COVER OR EQUAL. LID SHALL BE TRAFFIC TYPE WITH LOCKING BOLTS
- ④ PVC STAND PIPE - MATCH PIPE TO PLAN
- ⑤ PVC 45° BEND - MATCH PIPE TO PLAN
- ⑥ SEE WSDOT STANDARD PLAN B-55.20-02
- ⑦ PVC CAP OR PIPE AS DEFINED ON PLANS
- ⑧ SHORT PVC STUB - MATCH STORM PIPE PER PLAN
- ⑨ PVC 45° WYE -MATCH STORM PIPE PER PLAN

CLEANOUT ASSEMBLY DETAIL 2
INSTALLED IN TRAFFIC AREAS NTS



- ① RESTORATION SHALL BE IN ACCORDANCE WITH GENERAL NOTE 1 ON DETAIL 1 FOUND ON THIS PLAN SHEET
- ② THREADED PVC PLUG
- ③ PVC STAND PIPE - MATCH STORM PIPE PER PLAN
- ④ PVC 45° BEND - MATCH STORM PIPE PER PLAN
- ⑤ SEE WSDOT STANDARD PLAN B-55.20-02
- ⑥ PVC CAP OR PIPE AS DEFINED ON PLANS
- ⑦ SHORT PVC STUB - MATCH STORM PIPE PER PLAN
- ⑧ PVC 45° WYE - MATCH STORM PIPE PER PLAN

CLEANOUT ASSEMBLY DETAIL 3
INSTALLED IN NON-TRAFFIC AREAS NTS



NOTES:

1. DEPTH VARIES PER UTILITY LOCATION
2. BACKFILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. NATIVE MATERIAL, WHERE DEEMED ACCEPTABLE BY THE ENGINEER, MAY BE USED IF PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO A MIN. 90% DENSITY.

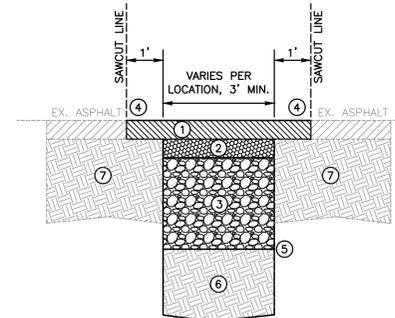
DRY UTILITY TRENCH DETAIL 4
NTS

GENERAL NOTES

- (NOTE 1) ANY SPECIAL CONDITIONS MUST FIRST BE APPROVED BY THE ENGINEER.
- (NOTE 2) ALL DENSITIES FOR GRAVEL SHALL BE PROCTORED USING ASTM D-1557. ASPHALT SHALL BE PROCTORED USING STATE APPROVED METHODS. DENSITIES SHALL BE DETERMINED USING A NUCLEAR DENSOMETER CONFORMING TO ASTM D-2950.
- (NOTE 3) ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
- (NOTE 4) ALL GRAVEL MATERIALS TO BE COMPACTED TO 95% OF MAXIMUM DENSITY ABOVE A TWO-FOOT DEPTH.

NOTES

- ①- 3" HOT MIX ASPHALT COMPACTED TO 92% MAX. DENSITY
- ②- 3" CRUSHED SURFACING BASE COURSE
- ③- 12" MIN. GRAVEL BORROW, DEPTH VARIES TO BRING MATERIAL TO BOTTOM OF CSBC
- ④- TACK ALL EDGES AND FACES OF EXISTING ASPHALT AND APPLY JOINT SEAL
- ⑤- TRENCH LINE
- ⑥- EXISTING ROADWAY SUBGRADE COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D-1557
- ⑦- UNDISTURBED EXISTING ROADWAY SECTION



ROADWAY/PARKING LOT REPAIR DETAIL 5
NTS

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT

275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | P: (360) 899-5953 | W: www.tuttle-team.com

IN ASSOCIATION WITH **LOCHNER**

DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: JOHN R. TUTTLE, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

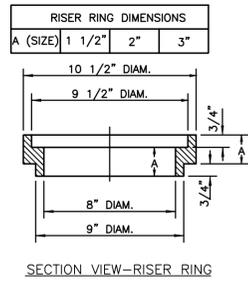
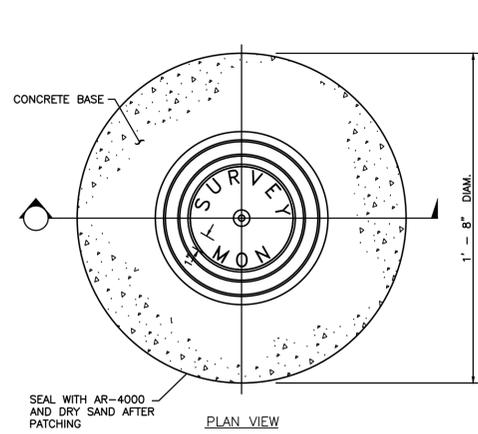
CITY OF BURLINGTON EAST-WEST CONNECTOR

PROJECT DETAILS

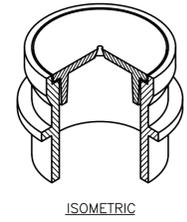
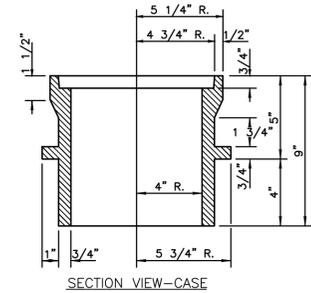
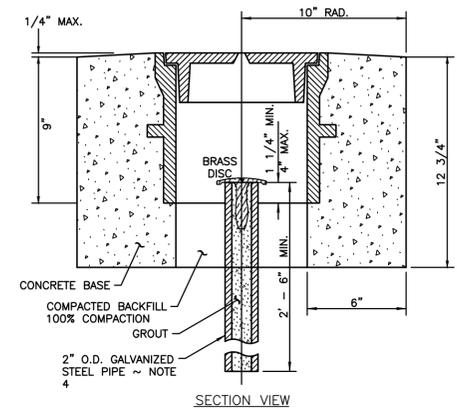
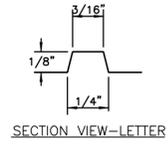
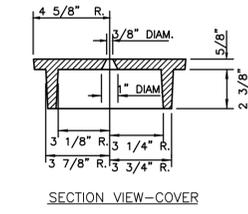
DT2

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

I:\BL\PRJ\000016615\Task Order 17 E-W Connector\7_Engineering\CADD\Plans\16615-12-SHEET-DETAILS.dwg - DT3 - Bull, Gage - 1/25/2023 3:37 PM



- NOTES
1. DIMENSIONS MAY VARY ACCORDING TO MANUFACTURER.
 2. BASE TO BE PLACED ON A WELL COMPACTED FOUNDATION.
 3. MONUMENT CASE TO BE INSTALLED BY CONTRACTOR.
 4. SEE WSDOT STANDARD PLAN A-10.20 FOR MONUMENT (BRASS DISC) TYPE TO PLACE IN 2" O.D. GALVANIZED PIPE.



MONUMENT CASE AND COVER DETAIL 1

REVISION	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:

CITY OF Burlington
SKAGIT COUNTY, WASHINGTON INCORPORATED 1905
 833 S. SPRUCE STREET BURLINGTON, WA 98233

TUTTLE ENGINEERING AND MANAGEMENT
 275 West Rio Vista Avenue, Suite 1, Burlington, WA 98233
 | O: (360) 899-5953 | W: www.tuttle-team.com

JOHN RAYMOND TUTTLE
 STATE OF WASHINGTON
 43718
 REGISTERED PROFESSIONAL ENGINEER

IN ASSOCIATION WITH

LOCHNER
 DESCRIPTION: 100% DESIGN
 ISSUE DATE: JANUARY 9, 2023
 DESIGNED BY: JOHN R. TUTTLE, P.E.
 CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR

PROJECT DETAILS

DT3

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

D:\East-West Connector\7_Engineering\CADD\Plans - MOVED TO I DRIVE_01092023\16615-19-SHEET-SPECS.dwg - LAA - Tuttle, John - 1/17/2023 12:53 PM

GENERAL REQUIREMENTS

- 1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER CONSTRUCTION DOCUMENTS APPROVED BY THE PERMIT AUTHORITIES. THROUGHOUT THE PERIOD OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS.
2. THE CONTRACTOR MUST HAVE A FULL SET OF CITY-APPROVED CONTRACT DOCUMENTS AND PERMITS ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. CONSTRUCTION NOISE SHALL BE LIMITED TO BETWEEN 7 A.M. TO 6 P.M. MONDAY THROUGH FRIDAY, AND AS PERMITTED BY THE CITY ON WEEKENDS.
4. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED UPON A COMBINATION OF FIELD RECONNAISSANCE, FIELD SURVEY, AND UTILITY COMPANY RECORDS AND ARE SHOWN ON THESE PLANS IN AN APPROXIMATE MANNER. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATE CENTER AT LEAST 72 HOURS PRIOR TO STARTING CONSTRUCTION, PHONE # 811. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO ARRANGE FOR FIELD LOCATIONS OF EXISTING UTILITY FACILITIES. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COSTS INCURRED BECAUSE OF DAMAGE DONE TO EXISTING FACILITIES BY THE CONTRACTOR'S WORK FORCE, INCLUDING COSTS FOR REPAIRS, WHICH WILL BE CONTRACTOR'S SOLE RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT BETWEEN THE APPROVED PLANS AND THE LOCATION OF ANY EXISTING UTILITIES.
5. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK. THE CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT TO EXISTING OR BETTER CONDITIONS IMMEDIATELY PRIOR TO CLOSE OF CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. EROSION CONTROL BEST MANAGEMENT PRACTICES SHALL BE INSTALLED PRIOR TO CLEARING OR GRADING IN CONFORMANCE WITH THE EROSION CONTROL PLAN. THE EROSION CONTROL PLAN SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. CONTRACTOR-GENERATED REVISIONS TO THESE PLANS WILL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO IMPLEMENTATION.
7. THE CONTRACTOR SHALL MAKE DAILY EFFORTS TO KEEP THE SITE IN A NEAT AND ORDERLY CONDITION TO THE SATISFACTION OF THE CITY, ADJACENT PROPERTY OWNERS, AND THE ENGINEER.
8. SITE CLEARING SHALL INCLUDE REMOVAL OF ALL ABOVE GROUND AND BURIED DEBRIS AND WASTE THAT MAY BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SUB-SURFACE CONDITIONS AND SOIL TYPES IDENTIFIED IN GEOTECHNICAL REPORTING.
9. THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE CITY PRIOR TO COMMENCING WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
10. ALL ASPHALT AND CONCRETE REMOVED FROM THE SITE SHALL BE DISPOSED IN AN APPROVED DISPOSAL SITE OBTAINED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES NECESSARY FOR THE DISPOSAL OF MATERIALS.
11. THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY, ENGINEER, OR A REPRESENTATIVE OF THESE PARTIES, AND AFFECTED UTILITY COMPANIES A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE, FACILITATE, AND TAKE NOTES ON DISCUSSIONS/DECISIONS MADE DURING THE MEETING.
12. ALL WORK PERFORMED AND ALL MATERIALS INSTALLED WITHIN PUBLIC RIGHTS-OF-WAY (WHETHER OPENED OR UNOPENED) SHALL BE SUBJECT TO APPROVAL BY THE CITY PUBLIC WORKS DEPARTMENT. A REPRESENTATIVE FROM THE CITY SHALL INSPECT ALL WORK IDENTIFIED ON THE PLANS WITHIN THESE RIGHTS-OF-WAY. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS AS FOLLOWS:
A. PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.
B. CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES.
C. INSTALLATION OF WATER, STORM, AND SANITARY SEWER MAINS, MAIN EXTENSIONS, AND SERVICES AND BACKFILLING OF TRENCHES WITHIN ROAD RIGHTS-OF-WAY OR EASEMENTS TO BE DEDICATED TO THE CITY.
D. PLACEMENT AND BACKFILLING OF UNDERGROUND UTILITIES WITHIN ROAD RIGHTS-OF-WAY OR IN EASEMENTS TO BE DEDICATED TO THE CITY.
E. GRADING OF PRIVATE PARKING AREAS OR DRIVEWAYS AT:
1. COMPLETION OF EXCAVATION TO SUBGRADE.
2. COMPLETION OF CRUSHED ROCK PLACEMENT.
F. OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, LANDSCAPING, MITIGATION PLANTINGS, AND SEEDING IN PUBLIC RIGHTS-OF-WAY.
G. END OF EACH MAINTENANCE PERIOD.
14. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CITY AND ENGINEER IF ANY DISCREPANCIES EXIST BETWEEN ACTUAL FIELD CONDITIONS AND THE ASSUMED CONDITIONS SHOWN ON THE APPROVED PLANS PRIOR TO PROCEEDING WITH CONSTRUCTION, SO NECESSARY PLAN OR DESIGN CHANGES CAN BE MADE. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR EXTRA WORK, INCLUDING REMOVAL AND RECONSTRUCTION OF NEWLY BUILT IMPROVEMENTS, MADE NECESSARY BY ERRORS OF DIMENSION OR GRADE ON THE APPROVED PLANS, UNLESS SUCH NOTIFICATION WAS GIVEN BY THE CITY AND ENGINEER.
15. THE CONTRACTOR SHALL KEEP RECORDS OF ALL DEVIATIONS AND SHALL FORWARD THEM TO THE CITY SO CONSTRUCTION RECORD DRAWINGS CAN BE PREPARED WITH SUFFICIENT ENOUGH DETAIL FOR APPROVAL BY THE CITY.
16. MATERIALS TESTING REQUIREMENTS FOR THE IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE INSTRUCTIONS AND PERMIT CONDITIONS OF THE CITY. THE CONTRACTOR SHOULD DETERMINE THESE REQUIREMENTS PRIOR TO THE START OF CONSTRUCTION.
17. DURING ALL PHASES, THE CONTRACTOR SHALL SWEEP AND REMOVE ALL DEBRIS TRACKED ONTO EXISTING ROADS. THE CONTRACTOR SHALL ALSO WATER WORK AREAS AND ADJOINING ROADS AS REQUIRED TO REDUCE CONSTRUCTION DUST.

SITE PREPARATION

- 1. ORGANIC MATERIAL OR DELETERIOUS MATERIAL, AS DETERMINED BY THE ENGINEER, THAT IS DISCOVERED DURING SUBGRADE EXCAVATION AND SITE PREPARATION SHALL BE ENTIRELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. FILL BELOW SUBGRADE SHALL BE GRAVEL BORROW PER WSDOT SECTION 9-03.14(1) COMPACTED TO 95% MAXIMUM DENSITY AT THE OPTIMUM MOISTURE AS DETERMINED BY ASTM D-1557 SPECIFICATIONS.
2. THE CONTRACTOR SHALL EMPLOY THE BEST POSSIBLE METHODS TO GRUB AND RAKE ROOTS FROM THE SITE SOILS. ORGANIC SOILS AND TOPSOILS SHALL BE STRIPPED FROM ALL AREAS SUPPORTING PERMANENT HARDENED SURFACES. THE EXCAVATED SUBGRADE SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER AND APPROVED PRIOR TO CONSTRUCTION OF FINAL SURFACES. WITHIN THE ASPHALT AND CONCRETE AREAS, PORTIONS OF THE EXCAVATED SUBGRADE THAT ARE SOFT OR INADEQUATE TO SUPPORT THE PROPOSED SECTION SHALL BE OVEREXCAVATED TO EXPOSE FIRM, STABLE, NON-YIELDING SUBGRADE MATERIAL. SUBGRADES SHALL BE PREPARED AND COMPACTED ACCORDING TO THE PROVISIONS OF WSDOT SECTION 2-06.3(1).
3. THE CONTRACTOR SHALL STOCKPILE CLEAN, NATIVE TOPSOIL MATERIAL FREE OF SOD AND DEBRIS, LARGER THAN TWO INCHES IN ANY DIMENSION, FOR USE AS FILL IN THE LANDSCAPING AREAS AROUND THE SITE. ALL LANDSCAPE AREAS SHALL BE FINE GRADED AS REQUIRED BY THE CITY. CLEAN, NATIVE TOPSOIL SHALL BE PLACED IN ALL LANDSCAPED AREAS ACCORDING TO THE APPROVED LANDSCAPING PLANS. THE FINISHED CONDITION OF LANDSCAPED AREAS SHALL BE NEATLY RAKED TO REMOVE DEBRIS LARGER THAN ONE INCH FROM THE TOP TWO INCHES AND SHALL BE PREPARED ACCORDING TO THE REQUIREMENTS OF THE LANDSCAPE PLAN. DISPOSAL OF NATIVE MATERIAL WILL BE DETERMINED BY THE CITY AFTER COORDINATING WITH THE CONTRACTOR. EXCESS NATIVE MATERIAL NOT USED ON THE SITE SHALL BE DISPOSED OF BY THE CONTRACTOR WITHIN AN APPROVED DISPOSAL SITE OBTAINED BY THE CONTRACTOR.
4. EXCAVATED MATERIAL SHALL NOT BE RE-USED AS STRUCTURAL FILL WITHIN IMPROVEMENT ZONES UNLESS THE GEOTECHNICAL ENGINEER FINDS IT SUITABLE. IF SO, IT SHALL BE COMPACTED PER SECTION 2-03.3(14) OF THE CURRENT WSDOT STANDARD SPECIFICATIONS.

STRIPING AND SIGNAGE

- 1. PAVEMENT MARKINGS SHALL BE APPLIED CONFORMING TO THE REQUIREMENTS OF SECTION 8-22.3 WSDOT STANDARD SPECIFICATIONS, AND AS REQUIRED, THE AMERICANS WITH DISABILITIES ACT.
2. SIGNS SHALL INSTALLED AT THE LOCATIONS INDICATED ON THE PLANS AND SHALL BE MOUNTED ON WOODEN POSTS. POSTS SHALL BE SET A MINIMUM OF THREE FEET INTO THE GROUND WITH A CONCRETE-FILLED BASE.

MISCELLANEOUS

- 1. THE CONTRACTOR SHALL COORDINATE WITH PUGET SOUND ENERGY, ZIPLY, COMCAST, SKAGIT PUD NO. 1, CASCADE NATURAL GAS, AND THE CITY OF BURLINGTON FOR THE UNDERGROUND INSTALLATION OF POWER, COMMUNICATIONS, POTABLE WATER, NATURAL GAS, AND CITY-PROVIDED UTILITIES. THE CONTRACTOR SHALL PROVIDE ALL UTILITY CONDUIT AND VAULT EXCAVATION, TRENCH PREPARATION, AND BACKFILLING UNLESS SPECIFICALLY IDENTIFIED OTHERWISE ON THE PLANS. ALL NON-METALLIC UTILITY CONDUITS SHALL HAVE A LOCATE WIRE INSTALLED DURING CONDUIT PLACEMENT.

UNDERGROUND UTILITIES CONSTRUCTION

- 1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO ENSURE ACCURATE AND TIMELY COLLECTION OF REQUIRED AS-BUILT DATA. THIS DATA MUST ACCURATELY REFLECT THE LOCATIONS OF ALL UNDERGROUND UTILITIES BY DOCUMENTING BOTTOM OF PIPE ELEVATIONS, MATERIAL AND SIZE DATA, INVERT ELEVATIONS, STRUCTURE LOCATIONS, SERVICE TAPS, BLOW-OFF LOCATIONS, INVERT OF SERVICE CONNECTIONS (BOTH AT THE PIPE AND AT PROPERTY LINE), VERTICAL AND HORIZONTAL BENDS, SERVICE AND METER BOXES, AND VALVES AND HYDRANTS. CALL THE CITY OR ENGINEER AT LEAST 48 HOURS BEFORE BURYING UNDERGROUND PIPE TO ENSURE AND FACILITATE REQUIRED AS-BUILT SURVEY DATA COLLECTION.
2. THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:
A. NO MORE THAN 100 FEET OF TRENCH SHALL BE KEPT OPEN AT ONE TIME.
B. WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF DITCHES AND TRENCHES.
C. IF REQUIRED, TRENCH Dewatering DEVICES SHALL DISCHARGE INTO CONTRACTOR-DESIGNED SEDIMENT TRAPS OR SEDIMENT PONDS AND AWAY FROM EXISTING CRITICAL AREAS.
D. WHERE PRACTICAL, INSTALL GRAVITY PIPE UTILITIES PRIOR TO INSTALLATION OF OTHER UTILITIES.
3. UTILITY CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF CITY STANDARDS OR INDUSTRY-ACCEPTED CONSTRUCTION PRACTICES.
4. ALL UTILITY TRENCHES SHALL BE EXCAVATED TO THE HORIZONTAL LIMITS DEFINED BY THE REQUIREMENTS OF WSDOT SECTION 2-09.4 TO PROVIDE SUFFICIENT SEPARATION BETWEEN THE UTILITY AND THE TRENCH WALL. TRENCHES FOR STORM, WATER, AND SANITARY FACILITIES SHALL BE EXCAVATED TO THE DEPTH PROVIDED ON THE PLANS. DEPTH OF UTILITY TRENCHES FOR POWER, COMMUNICATIONS, AND NATURAL GAS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFIC UTILITY COMPANY.
5. ALL UTILITIES SHALL BE BED ON A MINIMUM OF SIX INCHES OF GRAVEL BACKFILL FOR PIPE ZONE BEDDING. SHADING MATERIAL SHALL ALSO BE PLACED TO SIX INCHES OVER THE TOP OF THE UTILITY. ALL BEDDING AND COVER MATERIAL SHALL BE TAMPED AND HAND COMPACTED TO ENSURE ADEQUATE SUPPORT UNDER THE BARREL OF THE PIPE.
6. TRENCH BACKFILL MATERIAL FOR UTILITIES SHALL CONSIST OF COMPACTED GRAVEL BORROW MATERIAL PER WSDOT SECTION 9-03.14(1) PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT INCHES AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 TESTING PROCEDURES. THE INITIAL LIFT OF GRAVEL BORROW TRENCH BACKFILL OVER THE UTILITY SHALL NOT EXCEED 18 INCHES IN ORDER TO PROTECT THE UTILITY. GRAVEL BORROW TRENCH BACKFILL SHALL BE USED IN ALL TRENCHES UNDER ASPHALT, CONCRETE, CONSTRUCTION TRAFFIC AREAS, AND WITHIN FIVE FEET OUTSIDE OF IMPERVIOUS SURFACES. NATIVE MATERIAL MAY BE USED AS TRENCH BACKFILL OUTSIDE THE ABOVE-LISTED LIMITS PROVIDING A MINIMUM OF 90% COMPACTION CAN BE ACHIEVED. WHERE UNSUITABLE COMPACTION OR PLACEMENT IS REALIZED IN THESE AREAS, THE CONTRACTOR SHALL REMOVE AND REPLACE THE UNSUITABLE MATERIAL WITH SUITABLE NATIVE MATERIAL OR REPLACE IT WITH COMPACTED GRAVEL BORROW MATERIAL AT NO ADDITIONAL COST TO THE CITY.

STORM DRAINAGE

- 1. ALL STORM STUB INVERT ELEVATIONS SHALL BE CONSTRUCTED TO FACILITATE POSITIVE FLOW TO A CATCH BASIN. PIPE LENGTHS SHOWN ON THE PLANS ARE DIMENSIONED TO THE CENTER OF EACH STRUCTURE.
2. ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 7-08.3(1). THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED PIPE BEDDING TO A UNIFORM GRADE SO THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE. DRAINAGE MATERIALS SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS SECTION 9-05.
3. UNLESS OTHERWISE SPECIFIED, CAST IRON PRODUCTS SHALL CONFORM TO ASTM DESIGNATION "A 48 CLASS 30" AND DUCTILE IRON PRODUCTS SHALL CONFORM TO ASTM DESIGNATION "A 536 GRADE 80-55-06".
4. AT THE END OF SITE CONSTRUCTION, THE CONTRACTOR SHALL FLUSH OUT DEBRIS FROM THE STORM SYSTEM INSTALLED ON-SITE AND FROM THE FIRST EXISTING STRUCTURE DOWNSLOPE OF IMPROVEMENTS. MATERIAL FLUSHED FROM THE STORM SYSTEM SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED DISPOSAL SITE.

MATERIALS

- 1. AGGREGATE FOR GRAVEL BORROW SHALL COMPLY WITH SECTION 9-03.14 OF THE CURRENT STANDARD SPECIFICATIONS. GRAVEL BORROW SHALL CONSIST OF WELL-GRADED SAND AND GRAVEL CONFORMING TO THE REQUIRED SPECIFICATION. THE PERCENT PASSING THE U.S. NO. 200 SIEVE SHALL NOT EXCEED FIVE PERCENT.
2. GRAVEL BORROW IMPORTED TO THE SITE SHALL HAVE A CONSISTENT GRADATION. PRIOR TO IMPORTING GRAVEL BORROW MATERIAL, THE CONTRACTOR SHALL SUBMIT GRADATION AND PROCTOR TEST RESULTS TO THE ENGINEER FOR APPROVAL. GRADATION AND PROCTOR TEST RESULTS SHALL BE SUPPLIED BY THE CONTRACTOR PER 1000 TONS OF IMPORTED MATERIAL, IF REQUIRED.
3. GEOTEXTILE FABRIC SHALL BE PLACED ON THE PREPARED, EXCAVATED SUBGRADE UNDER ALL ASPHALT AREAS IN ACCORDANCE WITH THE PLANS. FABRIC SHALL BE STRETCHED AS TIGHT AS POSSIBLE BY HAND ON THE PREPARED SUBGRADE. PEGS, PINS, OR THE MANUFACTURER'S RECOMMENDED METHOD SHALL BE USED WHILE GRAVEL MATERIAL IS PLACED. A MINIMUM TWO-FOOT OVERLAP SHALL BE PROVIDED AT EACH JOINT.
4. THE CONTRACTOR SHALL RETAIN LICENSED PERSONNEL TO PERFORM COMPACTION TESTS FOR THE FOLLOWING:
A. FOR GRAVEL FILLS TWO FEET AND LESS:
TOP OF PREPARED GRAVEL BORROW WITHIN ASPHALT AREAS ON A 50-FOOT GRID OR STATION
B. ONE TEST ADJACENT TO ALL STRUCTURES WITHIN THE ASPHALT.
C. TRENCHES WITH THREE FEET OR LESS OF GRAVEL TRENCH BACKFILL:
TOP CENTER OF UTILITY TRENCHES AT 50-FOOT INTERVALS.
D. TRENCHES WITH MORE THAN THREE FEET OF GRAVEL TRENCH BACKFILL:
TOP CENTER OF UTILITY TRENCH AND MID-DEPTH OF TRENCH, BOTH AT 50-FOOT INTERVALS.
ALL TEST RESULTS SHALL MEET OR EXCEED THE STANDARD SPECIFICATIONS. ALL AREAS NOT MEETING THE REQUIRED SPECIFICATIONS SHALL BE RECOMPACTED AND RETESTED AT NO ADDITIONAL COST TO THE CITY. THE CONTRACTOR SHALL PROVIDE COPIES OF THE MATERIAL TESTING RESULTS TO THE ENGINEER AND THE CITY WITHIN TWO WORKING DAYS OF THE DATE OF TESTING.
5. CRUSHED SURFACING TOP COURSE SHALL CONFORM TO SECTION 9-03.9(3) OF THE CURRENT STANDARD SPECIFICATIONS. CRUSHED SURFACING SHALL BE PLACED TO THE THICKNESS IDENTIFIED ON THE PLANS AND MECHANICALLY COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY. THE CONTRACTOR IS RESPONSIBLE FOR GRADING OF COMPACTED CRUSHED MATERIAL WITHIN THE ASPHALT AREAS TO A TOLERANCE OF PLUS OR MINUS ONE-HALF INCH FROM THE DESIGNED TOP OF CRUSHED SURFACING ELEVATION. THE CONTRACTOR SHALL PROVIDE GRADATION AND DEGRADATION TEST RESULTS TO THE ENGINEER FOR APPROVAL PRIOR TO IMPORTING ANY CRUSHED ROCK MATERIAL. THE FINAL GRADING OF CRUSHED SURFACING TOP COURSE WILL BE INSPECTED AND APPROVED BY THE ENGINEER OR A REPRESENTATIVE OF THE CITY PRIOR TO ASPHALT PAVING. THE CONTRACTOR IS REQUIRED TO SCHEDULE A FINAL CRUSHED ROCK INSPECTION A MINIMUM OF TWO WORKING DAYS PRIOR TO PAVING.
6. WITHIN 24 HOURS OF ASPHALT PAVING, SOIL RESIDUAL HERBICIDE SHALL BE APPLIED TO ALL CRUSHED SURFACING TOP COURSE AREAS. SOIL RESIDUAL HERBICIDE AND ITS APPLICATION SHALL CONFORM TO SECTION 5-04.3(4)B OF THE WSDOT SPECIFICATIONS.
7. ALTERNATE PAVEMENT SECTIONS, WHEN DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER, MAY BE SUBMITTED TO THE CITY FOR CONSIDERATION AND, IF APPROVED, USED IN PLACE OF THE PAVEMENT SECTION SHOWN ON THESE PLANS.
8. ALL ABUTTING EDGES OF EXISTING ASPHALT SHALL BE SAW CUT FULL DEPTH TO PROVIDE A NEAT STABLE EDGE FOR NEW ASPHALT. ALL SAW CUT FACES SHALL BE TACK APPLIED TO ALL STRUCTURES THAT ABUT ASPHALT. THE SURFACE JOINT BETWEEN EXISTING ASPHALT AND NEW ASPHALT SHALL BE SEALED WITH HEAT-APPLIED AR-4000W. ASPHALT SURFACES THAT HAVE LOOSE MATERIAL OR POROUS CONDITIONS, AS DETERMINED BY THE ENGINEER OR A REPRESENTATIVE OF THE CITY, SHALL BE SEALED ACCORDING TO SECTION 5-04.3(4), CRACK SEALING, AT NO ADDITIONAL COST TO THE CITY.
9. A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.
10. HOT MIX ASPHALT SHALL BE PLACED AT THE LOCATIONS AND DEPTHS INDICATED ON THE PLANS AND SHALL CONFORM TO THE REQUIREMENTS OF SECTION 5-04 OF THE STANDARD SPECIFICATIONS. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO A MINIMUM OF 92% OF THE RICE DENSITY. COMPACTION SHALL OCCUR BETWEEN THE TEMPERATURES OF 180 DEGREES FAHRENHEIT AND 300 DEGREES FAHRENHEIT.

- 11. DURING COLD WEATHER CONDITIONS, AS DETERMINED BY THE ENGINEER, ALL TRUCKLOADS OF ASPHALT SHALL BE COVERED TO RETAIN HEAT. THE CONTRACTOR SHALL RETAIN LICENSED MATERIAL TESTING PERSONNEL TO PROVIDE COMPACTION TESTS AS RECOMMENDED BY A GEOTECHNICAL ENGINEER. IF COMPACTION TESTS WITHIN ASPHALT AREAS INDICATE LESS THAN 92% THE CONTRACTOR MAY, AT HIS EXPENSE, HAVE CORE SAMPLES TAKEN AND ANALYZED TO SUBSTANTIATE DENSITY. ASPHALT THAT DOES NOT MEET THE REQUIRED COMPACTION SHALL EITHER BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE, OR SHALL HAVE ADDITIONAL THICKNESS OR ADDITIONAL LIFTS ADDED TO EQUAL THE INTENDED DESIGN. ADDITIONAL TESTING AND ASPHALT PLACED TO COMPENSATE FOR UNACCEPTABLE COMPACTION TEST RESULTS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
12. NO ASPHALT PAVING OR ROLLING/COMPACTION IS ALLOWED AFTER DARK. ALL ROLLING SHALL BE COMPLETED BY SUNSET.
13. CRACKS AND POROUS CONDITIONS THAT RESULT IN THE FINISH SURFACE OF THE ASPHALT AREAS SHALL BE SEALED ACCORDING TO THE REQUIREMENTS OF CRACK SEALING, SECTION 5-04.3(4)A OF THE WSDOT SPECIFICATIONS.
14. THE CITY OF BURLINGTON HAS JURISDICTION OVER THE REQUIREMENTS OF WORK SPECIFIED WITHIN THE PUBLIC RIGHT-OF-WAY. PRIOR TO PLACEMENT OF ASPHALT WITHIN THIS RIGHT-OF-WAY, THE CONTRACTOR SHALL SCHEDULE AN ON-SITE CONSTRUCTION MEETING WITH A REPRESENTATIVE FROM THE CITY'S PUBLIC WORKS DEPARTMENT.
15. CURBS SHALL BE PLACED IN STRAIGHT LINES AND ACCORDING TO THE RADII SHOWN ON THE PLANS.
16. CEMENT CONCRETE SIDEWALKS, DRIVEWAYS, AND STRUCTURED WALLS SHALL BE INSTALLED AT THE HORIZONTAL AND VERTICAL LOCATIONS INDICATED ON THE CIVIL PLANS. SIDEWALKS SHALL BE FOUR-INCH THICK CLASS 3000 CONCRETE. ALL SIDEWALKS THAT MAY POTENTIALLY BE SUBJECT TO VEHICLE TRAFFIC SHALL BE SIX INCHES THICK. ALL CRUSHED SURFACING AND GRAVEL BORROW UNDER SIDEWALKS SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY.

ROADWAY

- 1. EXCAVATION WITHIN ROAD, DRIVEWAY, AND PARKING LOT PRISMS SHALL BE CUT TO A UNIFORM GRADE. THE COMPLETED SUBGRADE SURFACE SHALL NOT VARY MORE THAN 0.10-FOOT FROM THE LOWER EDGE OF A 15-FOOT STRAIGHT EDGE PLACED ON THE SUBGRADE PARALLEL TO TRAVEL WAYS AND CENTERLINES UNLESS APPROVED BY THE CITY'S FIELD REPRESENTATIVE.
2. ASPHALT CONCRETE PAVEMENT SHALL BE HOT MIX ASPHALT CL. 1/2" PG58H-22 OR CLASS "B" MATERIALS. CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SECTION 5-04, EXCEPT AS MODIFIED HEREIN. CONNECTION TO EXISTING PAVEMENT SHALL BE TO A STRAIGHT NEATLY-TRIMMED LINE.
3. CRUSHED ROCK SURFACING FOR PAVEMENT SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION, SECTION 9-03.9(3).
4. CEMENT CONCRETE CURBS AND GUTTERS SHALL BE CONSTRUCTED WHERE SHOWN ON THE PLANS AND IN ACCORDANCE WITH SECTION 8-04 OF THE WSDOT STANDARD SPECIFICATIONS.
5. CEMENT CONCRETE DRIVEWAYS AND SIDEWALKS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SECTIONS 8-06 AND 8-14 OF THE WSDOT STANDARD SPECIFICATIONS, RESPECTIVELY.
6. PAVEMENT REPAIR AREAS SHALL BE SAW CUT BEFORE REMOVAL OF UNDERLYING MATERIALS. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT. APPLICATION OF A THIN PAINT COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO ENSURE PROPER BONDING.
7. CRACKS AND POROUS CONDITIONS THAT RESULT IN THE FINISH SURFACE OF THE ASPHALT AREAS SHALL BE SEALED ACCORDING TO THE REQUIREMENTS OF CRACK SEALING, SECTION 5-04.3(4)A OF THE WSDOT STANDARD SPECIFICATIONS, AT NO ADDITIONAL COST TO THE CITY.

BIORETENTION SOIL MIX (BSM)

SOIL MEDIA

- 1. MINERAL AGGREGATE PERCENT FINES: A RANGE OF 2 TO 4 PERCENT PASSING THE #200 SIEVE IS IDEAL AND FINES SHOULD NOT BE ABOVE 5 PERCENT FOR A PROPER FUNCTIONING SPECIFICATION ACCORDING TO ASTM D422.
2. AGGREGATE GRADATION: THE AGGREGATE PORTION OF THE BSM SHOULD BE WELL-GRADED ACCORDING TO ASTM D 2487-98 (CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES (UNIFIED SOIL CLASSIFICATION SYSTEM)). WELL-GRADED SAND SHOULD HAVE THE FOLLOWING GRADATION COEFFICIENTS:
• COEFFICIENT OF UNIFORMITY (Cu=060/D10) EQUAL TO OR GREATER THAN 4. AND
• COEFFICIENT OF CURVE (Cc=(D30)2/D60XD10) GREATER THAN OR EQUAL TO AND LESS THAN OR EQUAL TO 3

NOTE: WHERE EXISTING SOILS MEET THE ABOVE AGGREGATE GRADATION, THOSE SOILS MAY BE AMENDED RATHER THAN IMPORTING MINERAL AGGREGATE.

- 3. COMPOST TO AGGREGATE RATIO: 60-65 PERCENT MINERAL AGGREGATE, 35-40 PERCENT COMPOST BY VOLUME.
4. ORGANIC MATTER CONTENT: 5-8 PERCENT BY WEIGHT.
5. CATION EXCHANGE CAPACITY (CEC) MUST BE >5 MILLEQUIVALENTS/100G DRY SOIL.
NOTE: SOIL MIXES MEETING THE ABOVE SPECIFICATIONS DO NOT HAVE TO BE TESTED FOR CEC. THEY WILL READILY MEET THE MINIMUM CEC.
6. COMPOST: TO ENSURE THE BSM WILL SUPPORT HEALTHY PLANT GROWTH AND ROOT DEVELOPMENT, CONTRIBUTE TO BIOFILTRATION OF POLLUTANTS, AND NOT RESTRICT INFILTRATION WHEN USED IN THE PROPORTIONS CITED HEREIN, THE FOLLOWING COMPOST STANDARDS ARE REQUIRED.
• MEETS THE DEFINITION OF "COMPOSTED MATERIAL" IN WAC 173-350-100 AND COMPLIES WITH TESTING PARAMETERS AND OTHER STANDARDS IN WAC 173-350-220.
• PRODUCED AT A COMPOSTING FACILITY THAT IS PERMITTED BY THE JURISDICTIONAL HEALTH AUTHORITY.
• FINE COMPOST SHALL MEET THE FOLLOWING GRADATION BY DRY WEIGHT:
•• MINIMUM PERCENT PASSING 2": 100%
•• MINIMUM PERCENT PASSING 1": 99%
•• MINIMUM PERCENT PASSING 5/8": 90%
•• MINIMUM PERCENT PASSING 1/4": 75%
•• MINIMUM ORGANIC MATTER OF 40%

EXCAVATION OF AREA

- 7. SOIL COMPACTION CAN LEAD TO FACILITY FAILURE; ACCORDINGLY, MINIMIZING COMPACTION OF THE BASE AND SIDEWALLS OF THE BIORETENTION AREA IS CRITICAL.
8. EXCAVATION SHALL NOT BE ALLOWED DURING WET OR SATURATED CONDITIONS.
9. EXCAVATION SHALL BE PERFORMED BY MACHINERY OPERATING ADJACENT TO THE BIORETENTION FACILITY AND NO HEAVY EQUIPMENT WITH NARROW TRACKS, NARROW TIRES, OR LARGE LUGGED, HIGH PRESSURE TIRES SHALL BE ALLOWED ON THE BOTTOM OF THE BIORETENTION FACILITY. USE LIGHT WEIGHT, LOW GROUND-CONTACT PRESSURE EQUIPMENT AND RIP THE BASE AT COMPLETION TO REFRACURE SOIL TO A MINIMUM OF 12 INCHES.
10. IF MACHINERY IS FOUND TO OPERATE IN ANY FACILITY, SUBGRADE INFILTRATION RATES SHALL BE FIELD-TESTED BY THE CONTRACTOR AND COMPARED TO DESIGN RATES. FAILURE TO MEET OR EXCEED THE DESIGN INFILTRATION RATE WILL REQUIRE REVISED ENGINEERING DESIGNS TO VERIFY ACHIEVEMENT OF TREATMENT AND FLOW CONTROL BENEFITS THAT WERE ESTIMATED IN STORMWATER DESIGN. REVISIONS REQUIRED DUE TO CONTRACTOR ACTIVITIES SHALL BE COMPLETED AT NO COST TO THE CITY, INCLUDING COST OF ENGINEERING.

- 11. PRIOR TO PLACEMENT OF THE BSM, THE FINISHED SUBGRADE SHALL:
• BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES.
• HAVE ANY SEDIMENT DEPOSITED FROM CONSTRUCTION RUNOFF REMOVED. TO REMOVE ALL INTRODUCED SEDIMENT, THE SUBGRADE SOIL SHALL BE REMOVED TO A DEPTH OF 3-6 INCHES AND REPLACED WITH BSM.
• BE INSPECTED BY A GEOTECHNICAL ENGINEER, THE CITY, OR ITS REPRESENTATIVE TO VERIFY REQUIRED SUBGRADE CONDITION.

- 12. EXPOSED SIDEWALLS OF THE COMPLETED BIORETENTION AREA WITH BSM IN-PLACE SHALL BE AS DESCRIBED ON THE PLANS AND DETAILS. THE BOTTOM OF THE FACILITY SHALL BE FLAT PER THE PLANS.

SOIL PLACEMENT

- 13. ON-SITE SOIL MIXING OR PLACEMENT SHALL NOT BE PERFORMED IF BIORETENTION SOIL MIX OR SUBGRADE SOIL IS SATURATED. THE BIORETENTION SOIL MIXTURE SHALL BE PLACED AND GRADED BY MACHINERY OPERATING ADJACENT TO THE BIORETENTION FACILITY. IF MACHINERY MUST OPERATE IN THE BIORETENTION CELL FOR SOIL PLACEMENT, USE LIGHT WEIGHT EQUIPMENT WITH LOW GROUND-CONTACT PRESSURE. IF MACHINERY OPERATES IN THE FACILITY, SUBGRADE INFILTRATION RATES MUST BE FIELD TESTED AND COMPARED TO DESIGN RATES. FAILURE TO MEET OR EXCEED THE DESIGN INFILTRATION RATE WILL REQUIRE REVISED ENGINEERING DESIGNS TO VERIFY ACHIEVEMENT OF TREATMENT AND FLOW CONTROL BENEFITS THAT WERE ESTIMATED IN STORMWATER DESIGN.
14. THE SOIL MIXTURE SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 6 INCHES PER LIFT FOR THE ENTIRE AREA OF THE BIORETENTION FACILITY.
15. COMPACT THE BIORETENTION SOIL MIX TO A RELATIVE COMPACTION OF 85 PERCENT OF MODIFIED MAXIMUM DRY DENSITY (ASTM D 1557). COMPACTION CAN BE ACHIEVED BY BOOT PAKING, AND THEN APPLY 0.2 INCHES OF WATER PER 1 INCH OF BIORETENTION SOIL MIX DEPTH. WATER FOR SETTLING SHOULD BE APPLIED ONLY BY SPRAYING OR SPRINKLING.

6		
5		
4		
3		
2		
1		
REVISION	DATE	DESCRIPTION



IN ASSOCIATION WITH **LOCHNER**
DESCRIPTION: 100% DESIGN
ISSUE DATE: JANUARY 9, 2023
DESIGNED BY: JOHN R. TUTTLE, P.E.
CHECKED BY: JOHN R. TUTTLE, P.E.

CITY OF BURLINGTON EAST-WEST CONNECTOR
CONSTRUCTION SPECIFICATIONS

CS

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY PROHIBITED TO SUCH USE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS IN THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.