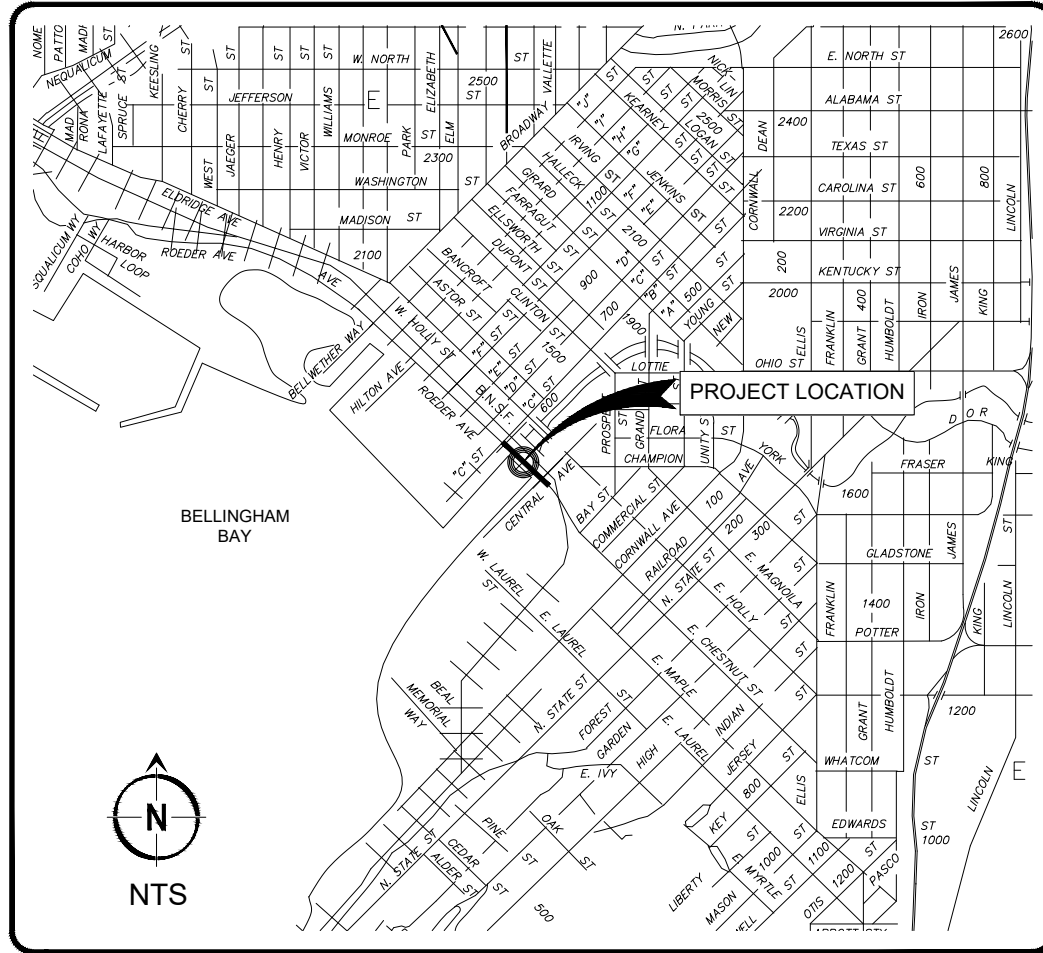


WFU - CONDUIT BANK EXTENSIONS BELLINGHAM, WASHINGTON

Attachment A



VICINITY MAP

FIGURE: 1

VICINITY MAP

REFERENCE: NWS-2023-XXXX

APPLICANT PORT OF BELLINGHAM

ADJACENT PROPERTY OWNERS:
 ALIOTTI CONSTRUCTION LLC
 BNSF RAILWAY COMPANY
 HARTCOURT DEVELOPMENTS GRANARY LLC
 PORT OF BELLINGHAM

ADDRESS: WHATCOM CREEK BRIDGE
 BELLINGHAM, WA 98227

LATITUDE: 48.752400
 LONGITUDE: -122.484913
 SECTION 30, T38N, R03E, W.M.

VERTICAL DATUM: NAVD 88

PAGE 1 OF 10 DATE: NOVEMBER, 2023

PROPOSED PROJECT:
 WFU - CONDUIT BANK
 EXTENSION

IN: PUBLIC RIGHT OF WAY
 AT: BELLINGHAM, WA

COUNTY: WHATCOM
 STATE: WASHINGTON

WFU - CONDUIT BANK EXTENSIONS BELLINGHAM, WASHINGTON

ABBREVIATIONS

FEATURES LEGEND

ABT	ABOUT	FDN	FOUNDATION	R	RADIUS
ABUT	ABUTMENT	FF	FINISHED FLOOR	RDWY	ROADWAY
ACP	ASPHALT CONCRETE	FIN	FINISH	RE	RIM ELEVATION
ADA	AMERICANS WITH DISABILITIES ACT	FND	FOUND	REF	REFERENCE
ALUM	ALUMINUM	FOC	FACE OF CURB	REINF	REINFORCING
AP	ANGLE POINT	FF	FAR FACE	REQD	REQUIRED
ACZA	AMMONIACAL COPPER ZINC ARSENATE	F	FILL, FIXED	RP	RADIUS POINT
		FT	FEET	RR	RAILROAD
				RT	RIGHT
				R/W ROW	RIGHT OF WAY
BD	BRIDGE DRAIN	GALV	GALVANIZED	SCHED	SCHEDULE
BK	BACK	GE	GRATE ELEVATION	SF	SQUARE FEET
BKSW	BACK OF SIDEWALK	GIR	GIRDER	SHLD	SHOULDER
BNSF	BURLINGTON NORTHERN & SANTA FE RAILROAD	HORIZ	HORIZONTAL	SHT	SHEET
BOT	BOTTOM	HS	HIGH STRENGTH	SIM	SIMILAR
BOC	BACK OF CURB	HT	HEIGHT	SSK HD	COUNTERSUNK HEAD
BRG	BEARING	IE	INVERT ELEVATION	SLP	SLOPE
BTWN	BETWEEN	IN	INCH	SPA	SPACE
BVC	BEGIN VERTICAL CURVE	INT	INTERIOR	SPCC	SPILL PREVENTION CONTROL
		JT	JOINT	SPL	SPICE
C	CUT	LB	POUND	SQ	SQUARE
CB	CATCH BASIN	LF	LINEAR FEET	ST	STREET
CFRP	CARBON FIBER REINFORCED POLYMER	LONGIT	LOGITUDINAL	STA	STATION
CIP	CAST IRON PIPE	LS	LUMP SUM, LOW SHRINKAGE	STD	STANDARD
CL	CLASS	LT	LEFT	STIRR	STIRRUP
C/L	CENTERLINE			STL	STEEL
CLR	CLEAR, CLEARANCE	MAX	MAXIMUM	STR	STRAIGHT
CMP	CORRUGATED METAL PIPE	MATL	MATERIAL	SWLK	SIDEWALK
C/O	CARE OF	MH	MANHOLE	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
COB	CITY OF BELLINGHAM	MIN	MINIMUM	SY	SQUARE YARD
COL	COLUMN	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	SYMM	SYMMETRICAL
CONC	CONCRETE			TCE	TEMPORARY CONSTRUCTION EASEMENT
CONSTR	CONSTRUCTION	NF	NEAR FACE	TEMP	TEMPORARY
CONT	CONTINUOUS	NO	NUMBER	THRD.	THREADED
CPVC	CHLORINATED PVC	NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	TOC	TOP OF CURB
CY	CUBIC YARD	NTS	NOT TO SCALE	TRANSV	TRANSVERSE
DIAM, Ø	DIAMETER	OD	OUTSIDE DIAMETER	TS	TOP OF SLAB
DIP	DUCTILE IRON PIPE	OFF	ORANGE FLEXIBLE FENCING	TW	TOP OF WALL
DWG	DRAWING	OHWM	ORDINARY HIGH WATER MARK	TYP	TYPICAL
DWL	DOWEL	OPP	OPPOSITE	VC	VERTICAL CURVE
DIAPH	DIAPHRAGM			VERT	VERTICAL
E, EXP	EXPANSION	PC	POINT OF CURVATURE	VPI	VERTICAL POINT OF INTERSECTION
EA	EACH	PCC	PORTLAND CONCRETE CEMENT		
EF	EACH FACE	POB	POINT OF BEGINNING		
EG	EXISTING GROUND	POC	POINT ON CURVE	W/	WITH
EL	ELEVATION	POE	POINT OF ENDING	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
ELB	ELBOW	PCF	POUNDS PER CUBIC FOOT		
ELEC	ELECTRICAL	PK	PARKER-KALON		
ELEV	ELEVATION	PNT	POINT	WVHM	WESTERN WASHINGTON HYDRAULICS MANUAL
EMBED	EMBEDMENT	PRC	POINT OF REVERSE CURVE		
EQUIV	EQUIVALENT	PSI	POUNDS PER SQUARE INCH		
ESC	EROSION & SEDIMENT CONTROL	PT	POINT OF TANGENT	X-	CROSS
EVC	END VERTICAL CURVE	PVC	POLYVINYL CHLORIDE	YR	YEAR
EXIST	EXISTING	PVMT	PAVEMENT		
EXT	EXTERIOR				

SYMBOLS	EXISTING	PROPOSED	LINE	EXISTING	PROPOSED
FOUND BRASS PLUG			SANITARY SEWER LINE		
1/2" REBAR WITH RED PLASTIC CAP			FORCED MAIN SANITARY SEWER LINE		
SANITARY SEWER MANHOLE			STORM SEWER LINE		
STORM MANHOLE			STORM CULVERT LINE		
STORM CATCH BASIN			WATER LINE		
SLOT DRAIN			UNDERGROUND POWER LINE		
WATER MANHOLE			UNDERGROUND TELEPHONE LINE		
WATER METER			UNDERGROUND GAS LINE		
WATER VALVE			BNSF TRACK LINE		
FIRE HYDRANT			FENCE LINE		
COMMUNICATIONS MANHOLE			RIGHT OF WAY LINE		
POWER TRANSFORMER			BRIDGE LINE		
POWER VAULT			PROPERTY LINE		
POWER METER			BUILDING LINE		
POWER JUNCTION BOX			CENTER LINE		
TELEPHONE VAULT			EDGE OF ASPHALT LINE		
LUMINAIRE			EDGE OF CONCRETE LINE		
RAILROAD CROSSING SIGNAL ARM			GRAVEL LINE		
RAILROAD CROSSING WARNING LIGHTS			SAWCUT LINE		
STREET SIGN			BUTT JOINT		
UTILITY POLE			DOUBLE YELLOW STRIPE		
UTILITY GUY WIRE			BUTTON STRIPE		
BOLLARD			SOLID LANE STRIPE		
			CONTOUR MAJOR LINE		
			CONTOUR MINOR LINE		

FIGURE: 2

LEGEND & ABBREVIATIONS

REFERENCE: NWS-2023-XXXX

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PORT OF BELLINGHAM

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VERTICAL DATUM: NAVD 88

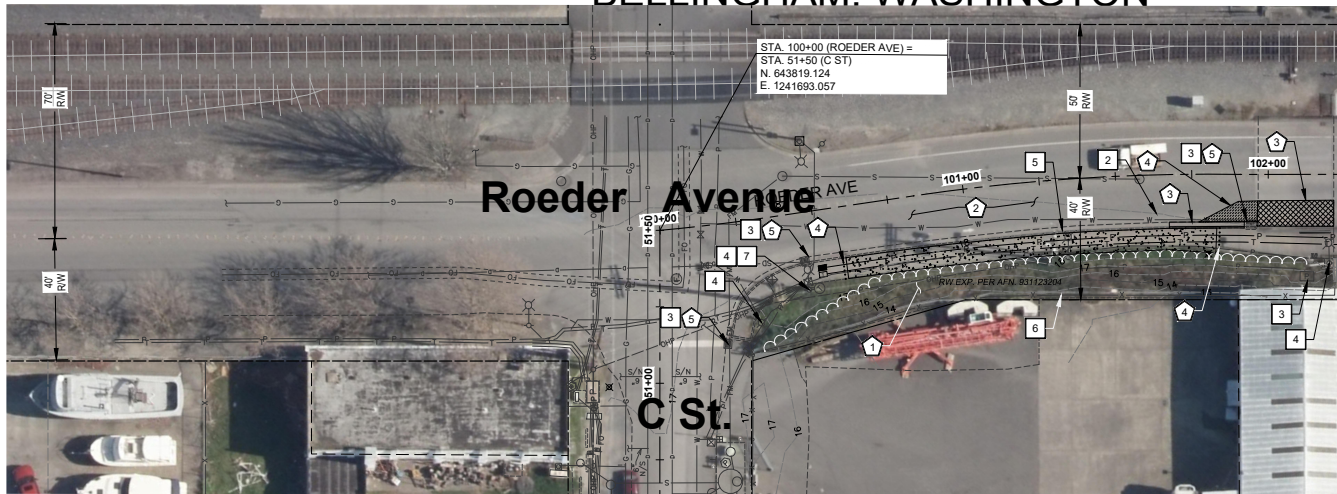
PAGE 2 OF 10 DATE: NOVEMBER, 2023

PROPOSED PROJECT:
WFU - CONDUIT BANK
EXTENSION

IN: PUBLIC RIGHT OF WAY
AT: BELLINGHAM, WA

COUNTY: WHATCOM
STATE: WASHINGTON

WFU - CONDUIT BANK EXTENSIONS BELLINGHAM, WASHINGTON



MATCHLINE STA. 102+25, SEE BELOW LEFT

CONSTRUCTION NOTES 1. CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDERS AS NECESSARY FOR WORK NEAR DRY UTILITIES. PRESERVE & PROTECT INFRASTRUCTURE.
SITE PREPARATION NOTES 1. PRESERVE & PROTECT EXIST SURVEY MONUMENT. 2. PRESERVE EXIST CHANNELIZATION PAVEMENT MARKINGS. 3. PRESERVE & PROTECT EXIST BURIED UTILITY. 4. PRESERVE & PROTECT EXIST OVERHEAD UTILITY. 5. PRESERVE & PROTECT EXIST CURB & GUTTER. 6. PRESERVE & PROTECT EXIST FENCE. 7. REMOVE & RESET EXIST BURIED UTILITY.
EROSION CONTROL KEYNOTES 1. PRESERVE NATURAL VEGETATION (BMP C101) 2. STREET CLEANING (BMP C140) 3. CONCRETE HANDLING (BMP C151) 4. SAWCUT AS SHOWN OR TO THE NEAREST PAVEMENT JOINT (BMP C152) 5. STORM DRAIN INLET PROTECTION (BMP C220). PROVIDE INLET PROTECTION WITHIN 300' DOWNSTREAM OF WORK AREAS. SEE CITY STD PLAN EC-625.
LEGEND <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> REMOVE & REPLACE ASPHALT PAVEMENT </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> REMOVE & REPLACE CONC SIDEWALK </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 10px; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; margin-right: 5px;"></div> REMOVE & REPLACE CONC APPROACH SLAB </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; border-bottom: 2px solid black; margin-right: 5px;"></div> REMOVE AND REPLACE CONC CURB & GUTTER </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; border-bottom: 1px dashed black; margin-right: 5px;"></div> SAWCUT LINE (BMP C152) </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; border-bottom: 2px dashed black; margin-right: 5px;"></div> BUTT JOINT (SEE DETAILS SHT TS01) </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; border-bottom: 1px solid black; margin-right: 5px;"></div> PRESERVE NATURAL VEGETATION (BMP C101) </div>



MATCHLINE STA. 102+25, SEE ABOVE RIGHT

MATCHLINE STA. 105+85

FIGURE: 3

SITE PREPARATION & TESC PLAN

REFERENCE: NWS-2023-XXXX

APPLICANT: PORT OF BELLINGHAM

ADJACENT PROPERTY OWNERS:
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 BNSF RAILWAY COMPANY
 HARTCOURT DEVELOPMENTS GRANARY LLC
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PAGE 3 OF 10 DATE: NOVEMBER, 2023

PROPOSED PROJECT:
 WFU - CONDUIT BANK EXTENSION

IN: PUBLIC RIGHT OF WAY
 AT: BELLINGHAM, WA

COUNTY: WHATCOM
 STATE: WASHINGTON

WFU - CONDUIT BANK EXTENSIONS BELLINGHAM, WASHINGTON

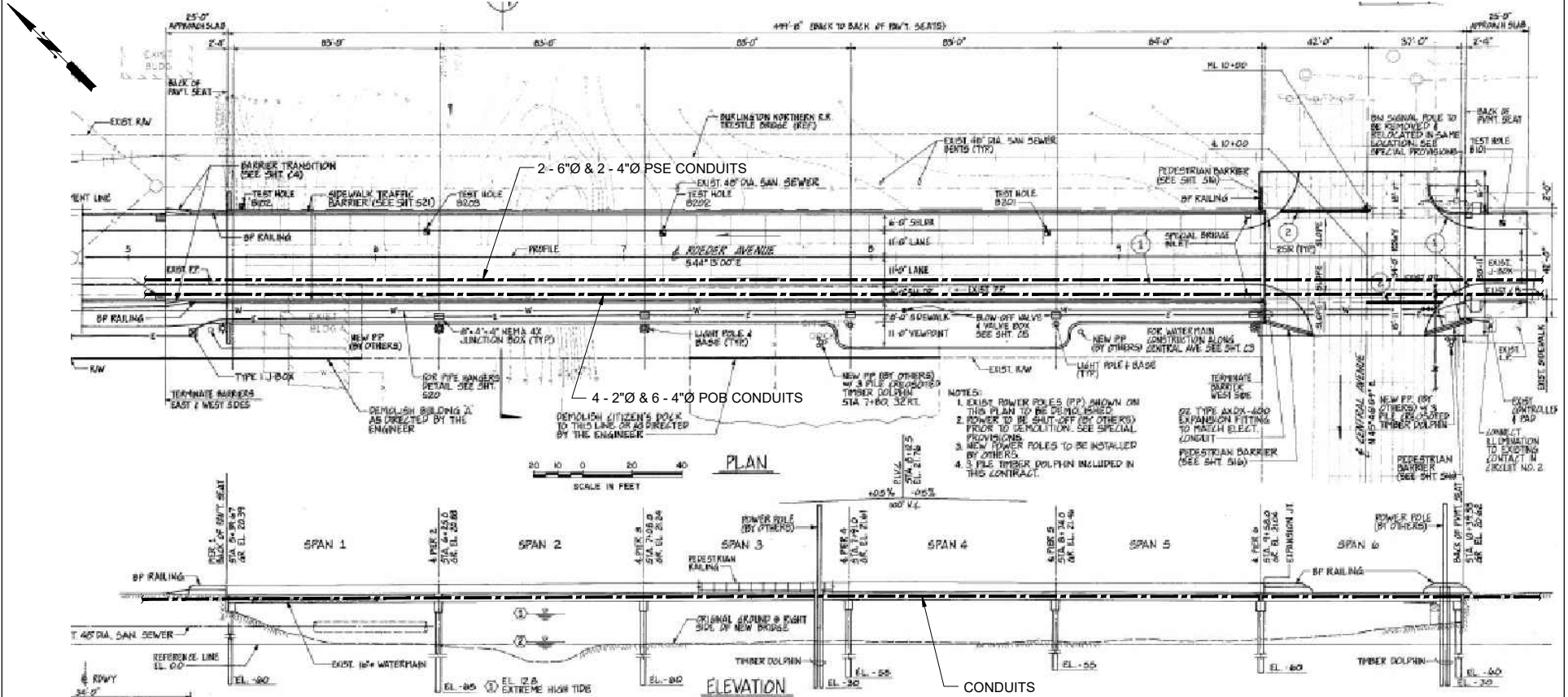


FIGURE: 4

CONDUIT PLAN & ELEVATION

REFERENCE: NWS-2023-XXXX

APPLICANT PORT OF BELLINGHAM

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VERTICAL DATUM: NAVD 88

PAGE 4 OF 10 DATE: NOVEMBER, 2023

PROPOSED PROJECT:
 WFU - CONDUIT BANK
 EXTENSION

IN: PUBLIC RIGHT OF WAY
 AT: BELLINGHAM, WA

COUNTY: WHATCOM
 STATE: WASHINGTON

SUGGESTED CONSTRUCTION SEQUENCE

STEP 1:

1. DETOUR TRAFFIC AND CLOSE ROAD TO ALL TRAFFIC.
2. CONSTRUCT TEMPORARY WORK PLATFORM & DEBRIS CONTAINMENT SYSTEM.
3. MOBILIZE.

STEP 2:

1. INSTALL CONDUIT OPENINGS.
2. DIGGING TRENCH ON APPROACH SLABS.
3. INSTALL CONDUIT HANGERS.

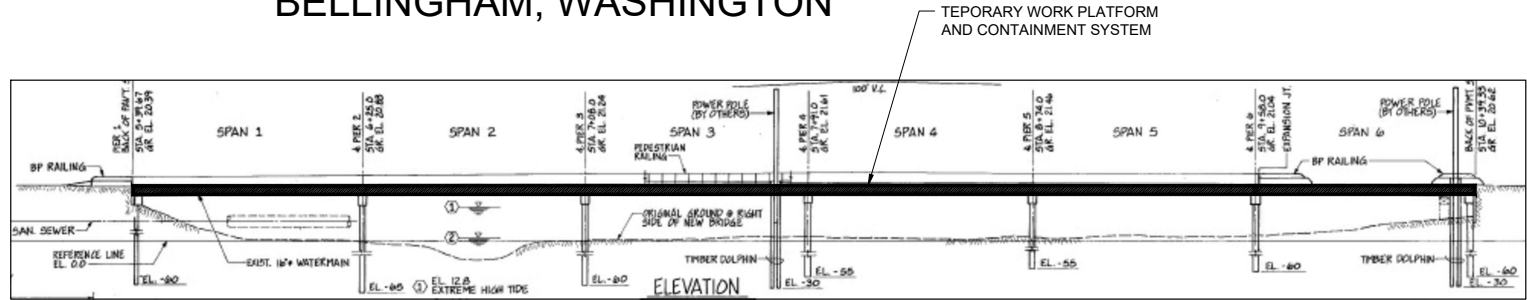
STEP 3:

1. INSTALL CONDUITS PIER DETAILS IN PLAN.
2. RECONSTRUCT THE APPROACHES AND BARRIER.
3. REMOVE TEMPORARY WORK PLATFORM & DEBRIS CONTAINMENT SYSTEM.
4. REMOVE DETOUR AND OPEN TO ALL TRAFFIC.

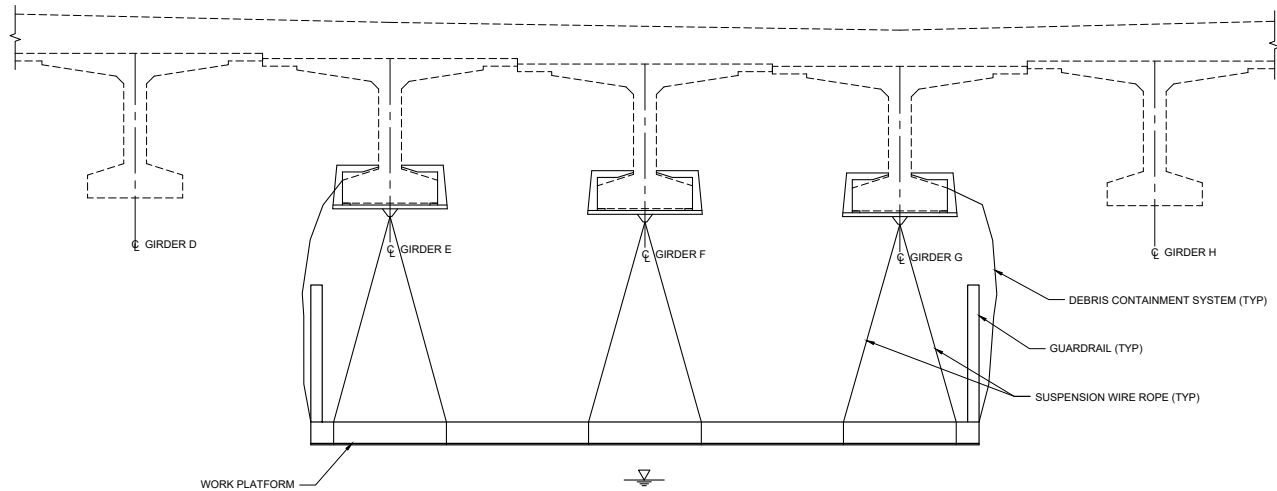
NOTE:

"THE STEPS AND WORK SHOWN ON THIS SHEET ARE FOR INFORMATIONAL USE ONLY. THE CONTRACTOR SHALL NOT CONSIDER THIS SHEET TO BE REQUIRED OR DIRECTED WORK BY THE CONTRACTING AGENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING WORK, PREPARING PLANS AND DRAWINGS, PERFORMING DESIGN AND CALCULATIONS, AND SUBMITTALS AS REQUIRED IN THE PLANS, SPECIFICATIONS, AMENDMENTS, SPECIFICATIONS, STANDARD PLANS, AND ANY PERMITS OR AGREEMENT INCLUDED WITHIN THE CONTRACT."

WFU - CONDUIT BANK EXTENSIONS BELLINGHAM, WASHINGTON



**EXISTING ROEDER AVE BRIDGE ELEVATION
WITH TEMPORARY WORK PLATFORM & DEBRIS CONTAINMENT SYSTEM**



SUGGESTED TEMPORARY WORK PLATFORM

NOTE:
TEMPORARY WORK PLATFORM SYSTEM TO BE SAFESPAN PLATFORM OR EQUAL.

FIGURE: 5

**CONSTRUCTION
SEQUENCE**

REFERENCE: NWS-2023-XXXX

APPLICANT PORT OF BELLINGHAM

ADJACENT PROPERTY OWNERS:
ALIOTTI CONSTRUCTION LLC
BNSF RAILWAY COMPANY
HARTCOURT DEVELOPMENTS GRANARY LLC
PORT OF BELLINGHAM

ADDRESS: WHATCOM CREEK BRIDGE
BELLINGHAM, WA 98227

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VERTICAL DATUM: NAVD 88

PAGE 5 OF 10 DATE: NOVEMBER, 2023

PROPOSED PROJECT:
WFU - CONDUIT BANK
EXTENSION

IN: PUBLIC RIGHT OF WAY
AT: BELLINGHAM, WA

COUNTY: WHATCOM
STATE: WASHINGTON

WFU - CONDUIT BANK EXTENSIONS BELLINGHAM, WASHINGTON

GENERAL NOTES:

1. ALL MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, DATED 2023, AMENDMENTS, TO BE DATE AND SPECIAL PROVISIONS.
2. ALL PLAN DIMENSIONS SHOWN ARE MEASURED HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED AND REFLECT THE ULTIMATE GEOMETRIC SHAPE AND LOCATION OF ALL ELEMENTS AT A MEAN TEMPERATURE OF 64° F.
3. ALL EXISTING DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

CONDUIT AND HANGER GENERAL NOTES:

1. ALL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION PER AASHTO M111 OR AASHTO M232 EXCEPT PIPE ROLLERS.
2. PAINT ROLLERS WITH THREE COATS OF GALVANIZING REPAIR PAINT, SEE STANDARD SPECIFICATIONS SECTION 9-08.1(2)B.
3. SET POSITION OF EXPANSION FITTING BASED ON MANUFACTURER RECOMMENDATIONS AND TEMPERATURE AT TIME OF INSTALLATION.
4. EXPANSION FITTINGS SHALL BE INSTALLED EVERY 100'-0" MAX AND SHALL ACCOMMODATE 5.1 INCHES OF MOVEMENT. THE DESIGN TEMPERATURE RANGE IS 125 DEGREES (-15° TO 110°).

NOTES:

- ① DIMENSION MAY BE INCREASED IF REQUIRED FOR GEOMETRY.
- ② 10'-0" STEEL CONDUIT SECTION BETWEEN CONDUIT DEFLECTION FITTING A AND PVC CONDUIT ADAPTOR.
- ③ RESTRAIN BARREL END OF CONDUIT EXPANSION FITTING.

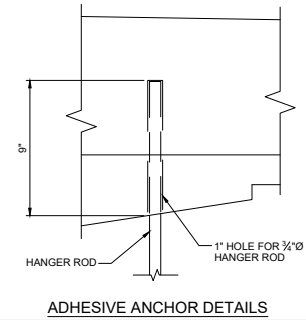
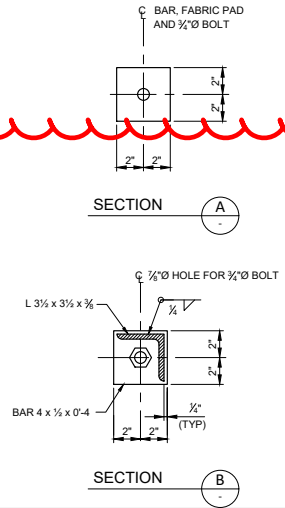
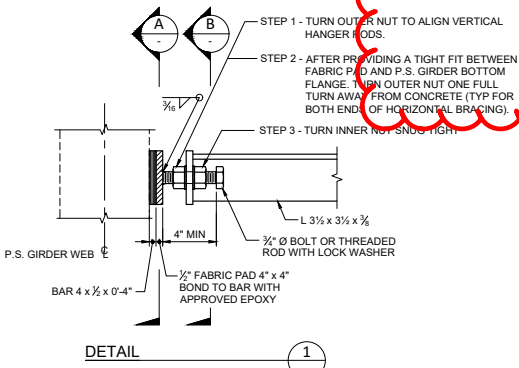
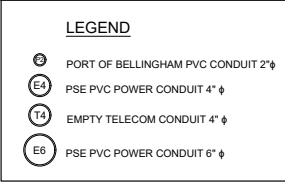
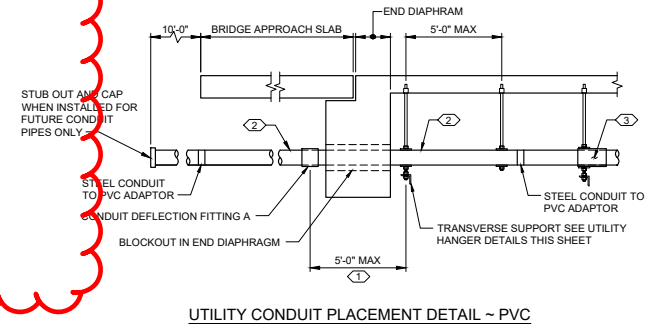
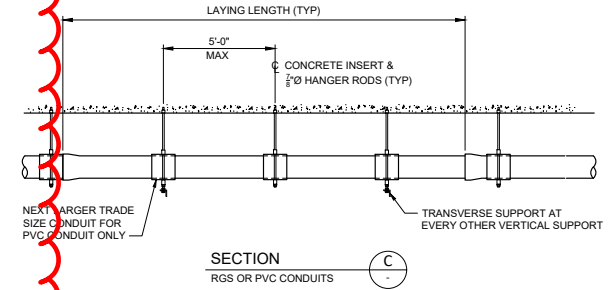
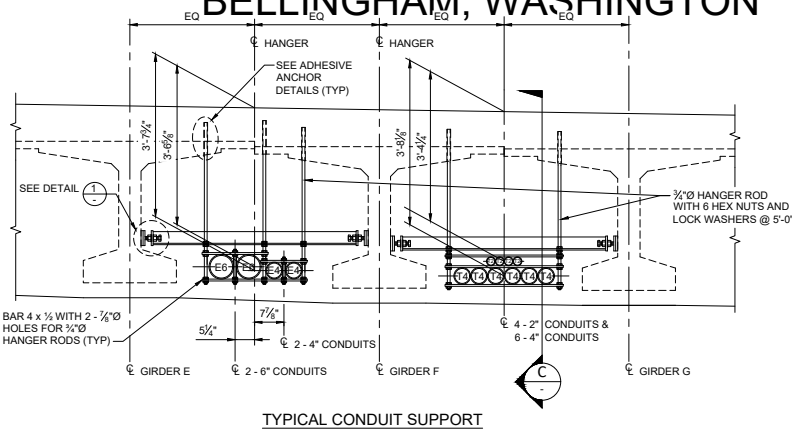


FIGURE: 6

**GENERAL NOTES
& CONDUIT
HANGAR DETAILS**

REFERENCE: NWS-2023-XXXX

APPLICANT PORT OF BELLINGHAM

ADJACENT PROPERTY OWNERS:
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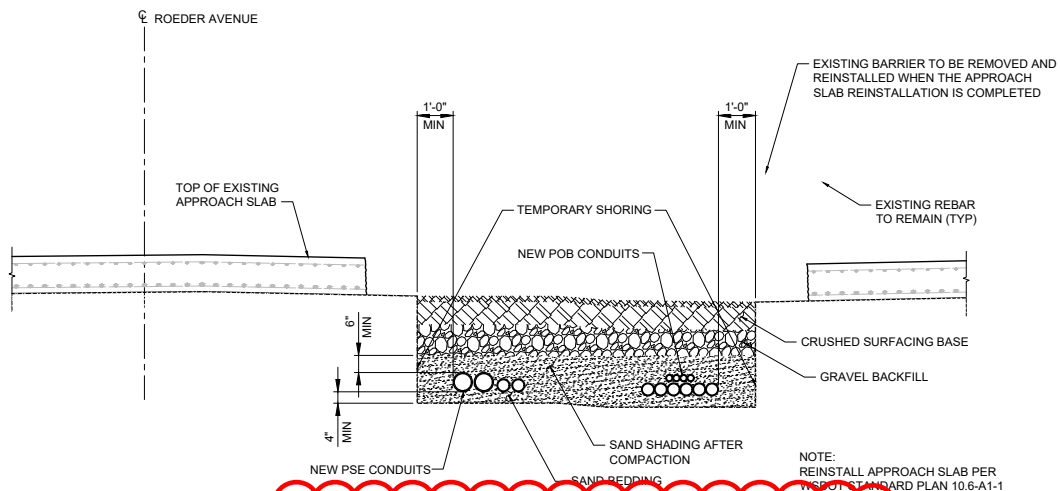
PAGE 6 OF 10 DATE: NOVEMBER, 2023

PROPOSED PROJECT:
WFU - CONDUIT BANK
EXTENSION

IN: PUBLIC RIGHT OF WAY
AT: BELLINGHAM, WA

COUNTY: WHATCOM
STATE: WASHINGTON

WFU - CONDUIT BANK EXTENSIONS BELLINGHAM, WASHINGTON



CONDUIT INSTALLATION TRENCH AT APPROACH SLAB
 LOOKING AHEAD ON STATION
 WEST APPROACH SLAB SHOWN
 EAST APPROACH SLAB SIMILAR

FIGURE: 7

APPROACH SLAB SECTION

REFERENCE: NWS-2023-XXXX

APPLICANT PORT OF BELLINGHAM

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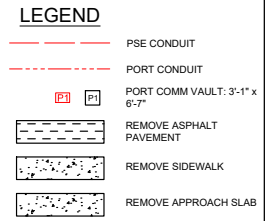
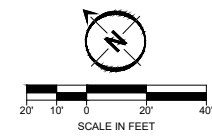
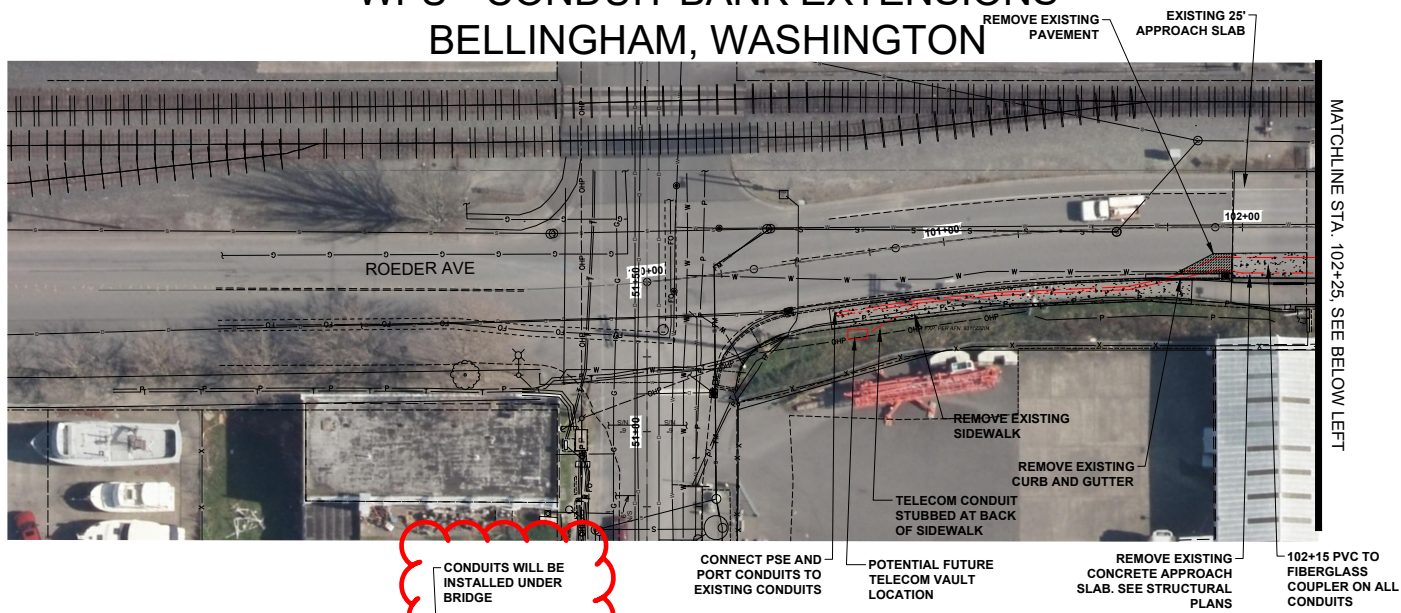


FIGURE: 8

UTILITY PLAN

REFERENCE: NWS-2023-XXXX

APPLICANT PORT OF BELLINGHAM

ADJACENT PROPERTY OWNERS:
 ALIOTTI CONSTRUCTION LLC
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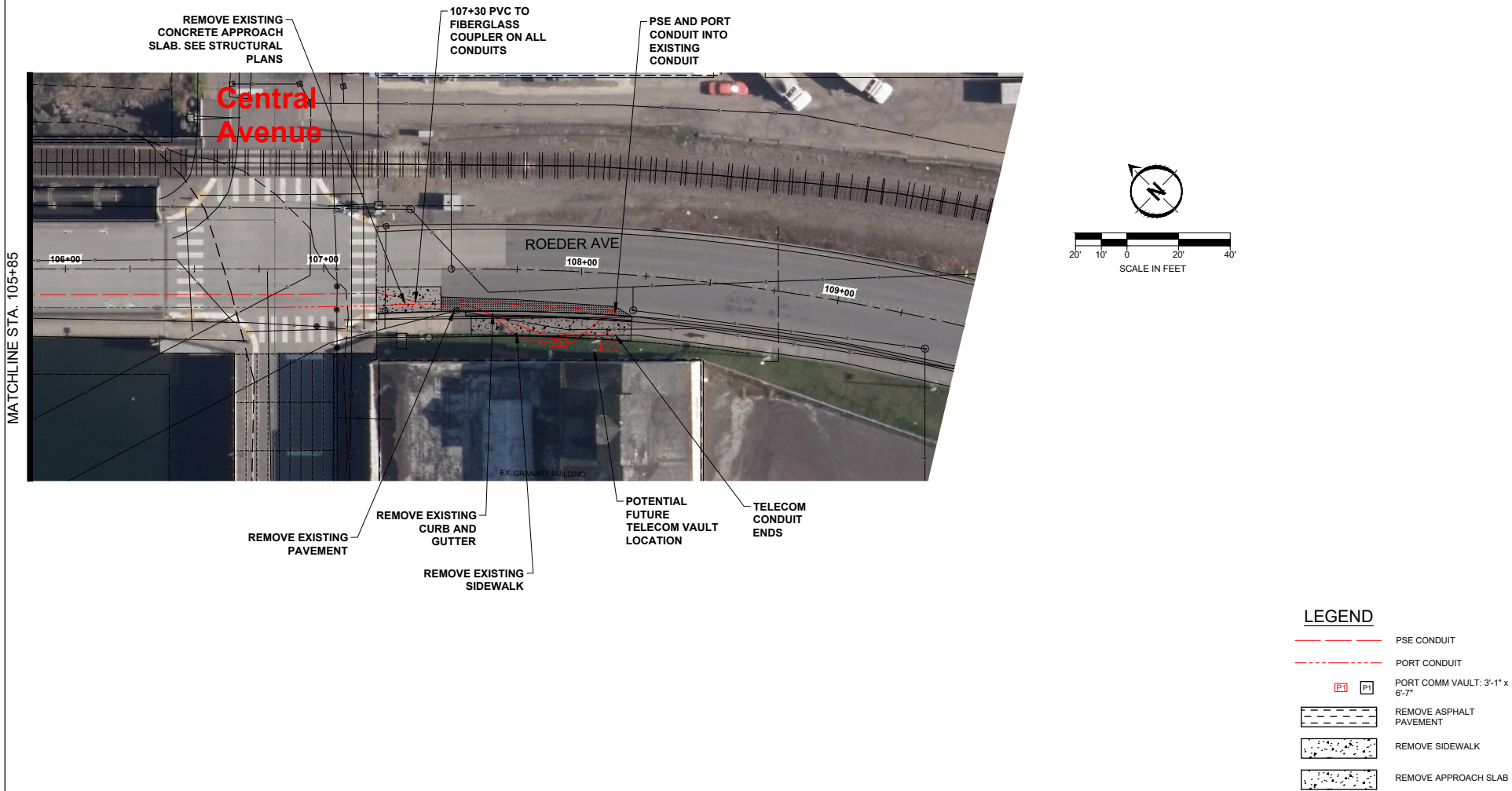
PAGE 8 OF 10 DATE: NOVEMBER, 2023

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WFU - CONDUIT BANK EXTENSIONS BELLINGHAM, WASHINGTON



LEGEND

- PSE CONDUIT
- - - PORT CONDUIT
- P1 P1 PORT COMM VAULT: 3'-1" x 6'-7"
- REMOVE ASPHALT PAVEMENT
- REMOVE SIDEWALK
- REMOVE APPROACH SLAB

FIGURE: 9

UTILITY PLAN

REFERENCE: NWS-2023-XXXX

APPLICANT PORT OF BELLINGHAM

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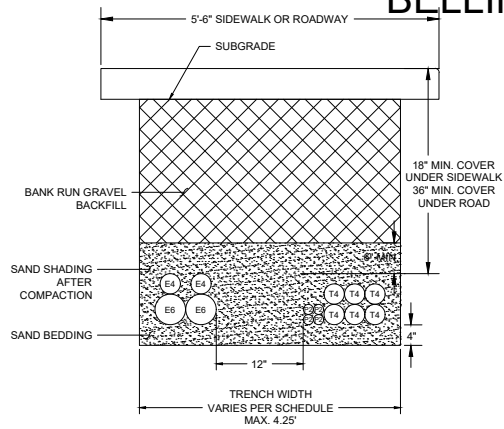
PAGE 9 OF 10 DATE: NOVEMBER, 2023

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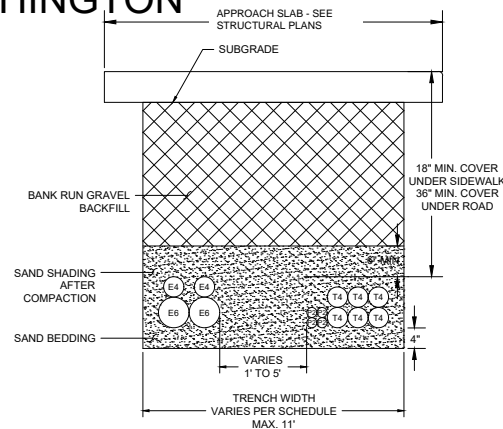
COUNTY: WHATCOM
 STATE: WASHINGTON

WFU - CONDUIT BANK EXTENSIONS BELLINGHAM, WASHINGTON



JOINT UTILITY TRENCH SECTION

FOR C STREET TO ROEDER AVE BRIDGE
NOT TO SCALE



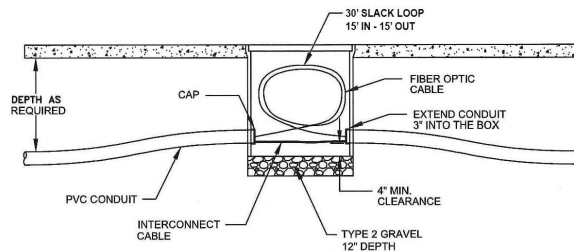
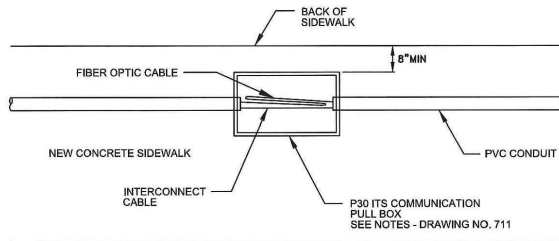
JOINT UTILITY TRENCH SECTION

FOR ROEDER AVE BRIDGE APPROACH SLAB
NOT TO SCALE

REFER TO STRUCTURAL PLANS FOR CONDUIT
TRANSITION LAYOUT UNDER APPROACH SLAB

LEGEND

- ⊗ PORT OF BELLINGHAM PVC CONDUIT 2"
- ⊗ E4 PSE PVC POWER CONDUIT 4"
- ⊗ T4 EMPTY TELECOM CONDUIT 4"
- ⊗ E8 PSE PVC POWER CONDUIT 6"



ITS COMMUNICATION CONDUIT AND PULL BOX DETAIL

NOT TO SCALE

REFER TO STRUCTURAL PLANS FOR CONDUIT
LAYOUT UNDER BRIDGE

JOINT UTILITY BRIDGE SECTION

FOR UNDER BRIDGE
NOT TO SCALE

FIGURE: 10

UTILITY DETAILS

REFERENCE: NWS-2023-XXXX

APPLICANT PORT OF BELLINGHAM

ADJACENT PROPERTY OWNERS:
ALIOTTI CONSTRUCTION LLC
BNSF RAILWAY COMPANY
HARTCOURT DEVELOPMENTS GRANARY LLC
PORT OF BELLINGHAM

ADDRESS: WHATCOM CREEK BRIDGE
BELLINGHAM, WA 98227

LATITUDE: 48.752400
LONGITUDE: -122.484913
SECTION 30, T38N, R03E, W.M.

VERTICAL DATUM: NAVD 88

PAGE 10 OF 10 DATE: NOVEMBER, 2023

PROPOSED PROJECT:
WFU - CONDUIT BANK
EXTENSION

IN: PUBLIC RIGHT OF WAY
AT: BELLINGHAM, WA

COUNTY: WHATCOM
STATE: WASHINGTON