

May 05, 2021 - 3:09pm CAD FILE: toytorcomm Z:\1900001-1900319 6th Street Preservation - Phase II\CAD01\Design\6SP_CV_P12.dwg

CITY OF BREMERTON

DEPARTMENT OF PUBLIC WORKS AND UTILITIES

6TH STREET PRESERVATION PHASE II PROJECT

CITY OF BREMERTON PROJECT NO. 315-021

FEDERAL AID NO. STPUS-6566(013)

MAY 2021

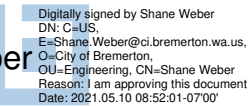
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VICINITY MAP

SCALE: 1" = 500'
1/2 SCALE: 1" = 1000'

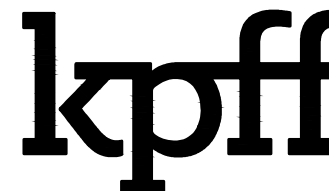
RECOMMENDED BY:  Shane Weber
SHANE WEBER, P.E.
MANAGING ENGINEER

APPROVED BY: _____
NED LEVER, P.E.
CITY ENGINEER



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CV01



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DRAWING NO.


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DRAWN BY: M. VU DATE 04/2021	DESIGN BY: J. GOODMAN WASH. P.E. # 53732 DATE 04/2021	CHECKED BY: P. SLOAN WASH. P.E. # 37419 DATE 04/2021

6TH STREET PRESERVATION PHASE II COVER SHEET	
PN: 1900319	SHEET 1 OF 33









































COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

Apr 23, 2021 - 8:44am CAD FILE: microaiv Z:\900001-1900319\900319 6th Street Preservation - Phase II\CAD00\Design\GSP_001_Pht2.dwg


























ABBREVIATIONS:

A/C	ASPHALT CONCRETE	MH	MANHOLE
ABT	ABOUT	MIC	MONUMENT IN CASE
ABUT	ABUTMENT	MIN	MINIMUM
ALUM	ALUMINUM	MJ	MECHANICAL JOINT
AP	ANGLE POINT	N	NORTH, NORTHING
APPROX	APPROXIMATE	NA	NOT APPLICABLE
BFS	BEGIN FULL SUPER ELEVATION	N.C.	NATIONAL COURSE
BK	BACK	NF	NEAR FACE
BL	BOND LENGTH	NO.	NUMBER
BOT	BOTTOM	NTS	NOT TO SCALE
BRG	BEARING	OC	ON CENTER
BST	BEGIN SUPER TRANSITION	OD	OUTSIDE DIAMETER
BTWN	BETWEEN	OHWM	ORDINARY HIGH WATER MARK
BVCS	BEGIN VERTICAL CURVE STATION	OPP	OPPOSITE
BVCE	BEGIN VERTICAL CURVE ELEVATION	PAVMT, PAVT	PAVEMENT
CB	CATCH BASIN	PEN	PENETRATION
CG	CENTER OF GRAVITY	PERF	PERFORATED
CIP	CAST IN PLACE	PC	POINT OF CURVATURE, PRECAST
CJ	CONSTRUCTION JOINT	PCC	POINT OF COMPOUND CURVE
CL	CENTERLINE	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PGA	PEAK GROUND ACCELERATION
CLEAR	CLEARANCE	PSF	POUNDS PER SQUARE FOOT
CO.	COUNTY	PSI	POUNDS PER SQUARE INCH
COB	CITY OF BREMERTON	PI	POINT OF INTERSECTION
COMP	COMPRESSIVE	PL	PLATE
CONC	CONCRETE	PLF	POUNDS PER LINEAR FOOT
CONST	CONSTRUCTION	PRC	POINT OF REVERSE CURVE
CONT	CONTINUOUS	PT	POINT OF TANGENCY
DEG	DEGREE	PVC	POINT OF VERTICAL CURVATURE
DEM	DIGITAL ELEVATION MAP	PVI	POINT OF VERTICAL INTERSECTION
DI	DUCTILE IRON	PVT	POINT OF VERTICAL TANGENCY
DIA	DIAMETER	R	RADIUS
DIAPH	DIAPHRAGM	RAD	RADIANS
DIM	DIMENSION	RGS	RIGID GALVANIZED STEEL
DL	DEAD LOAD	RD	ROAD
DR	DRIVE	RDWY	ROADWAY
DWG	DRAWING	REF	REFERENCE
E	EAST, EASTING, EXPANSION	REINF	REINFORCEMENT
	EPOXY COATED REBAR	REQ'D	REQUIRED
EA	EACH	RJ	RESTRAINED JOINT
EF	EACH FACE	RPM	RAISED PAVEMENT MARKER
EFS	END FULL SUPER ELEVATION	RT	RIGHT
EL, ELEV	ELEVATION	R/W, ROW	RIGHT OF WAY
EQ	EQUAL	S	SOUTH
EST	END SUPER TRANSITION	SCH	SCHEDULE
EVCS	END VERTICAL CURVE STATION	SD	STORM DRAIN
EVCE	END VERTICAL CURVE ELEVATION	SDWLK, SW	SIDEWALK
EXIST, EX	EXISTING	SEW, SE WALL	STRUCTURAL EARTH WALL
EXP	EXPANSION	SHLD	SHOULDER
FED	FEDERAL	SHT	SHEET
FF	FAR FACE	SPA	SPACING
FL	FLOW LINE	SPEC	SPECIFICATION
FT	FEET, FOOT	SPL	SPLICE
FTG	FOOTING	SS	SANITARY SEWER
GA	GAGE	ST	STREET
GALV	GALVANIZED	STA	STATION
GV	GATE VALVE	STD	STANDARD
HDPE	HIGH DENSITY POLYETHYLENE	STIRR	STIRRUP
HMA	HOT MIX ASPHALT	SYM, SYMM	SYMMETRICAL
HORIZ	HORIZONTAL	T	TANGENT
HPS	HIGH PRESSURE SODIUM	TB	THRUST BLOCK
HS	HIGH STRENGTH	TBD	TO BE DETERMINED
ID	INSIDE DIAMETER	TEMP	TEMPORARY
IE	INVERT ELEVATION	THRU	THROUGH
IN	INCH(ES)	T&B	TOP AND BOTTOM
INT	INTERIOR	TRIB	TRIBUTARY
JCT	JUNCTION	TYP	TYPICAL
JT	JOINT	UNO	UNLESS NOTED OTHERWISE
KSF	KIPS PER SQUARE FOOT	VC	VERTICAL CURVE
KSI	KIPS PER SQUARE INCH	VERT	VERTICAL
KVA	KILOVOLT-AMPERE	W	WATER LINE, WEST
L	LENGTH	WHS	WELDED HEADED STUD
LBS	POUNDS	WMA	WARM MIX ASPHALT
LF	LINEAR FEET	WP	WORK POINT
LT	LEFT	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
MFG	MANUFACTURER	WWF	WELDED WIRE FABRIC
MAT'L	MATERIAL	W/	WITH
MAX	MAXIMUM	W/O	WITHOUT
MED	MEDIUM	YR	YEAR

SURVEY LEGEND:

	= EXISTING MONUMENT IN CASE		= EXISTING GROUND GUY
	= EXISTING MONUMENT (SURFACE)		= EXISTING FIBER-OPTIC/COMM. VAULT
	= EXISTING BLOCK CORNER		= EXISTING ELECTRIC HANDHOLE
	= IRON PIPE		= EXISTING CARSONITE POST
	= BENCHMARK		= EXISTING DECIDUOUS TREE
	= EXISTING GATE VALVE		= EXISTING CONIFER FIR TREE
	= EXISTING WATER METER		= EXISTING SHRUB
	= EXISTING 2 NOZZLE FIRE HYDRANT		= EXISTING UTILITY POLE
	= EXISTING 3 NOZZLE FIRE HYDRANT		= JUNCTION BOX (TYPE I, II, III)
	= EXISTING IRRIGATION BOX		= PEDESTRIAN PUSHBUTTON
	= EXISTING BOLLARD		= PEDESTRIAN SIGNAL HEAD
	= EXISTING STREET SIGN		= EXISTING SAN SEWER CLEANOUT
	= EXISTING UTILITY POLE		= EXISTING SAN SEWER MANHOLE
	= EXISTING STREET LIGHT ASSEMBLY		= EXISTING STORM DRAIN CATCH BASIN
	= EXISTING YARD LIGHT		= EXISTING STORM DRAIN MANHOLE
	= EXISTING GAS METER		= EXISTING BUS STOP
	= EXISTING GAS VALVE		= EXISTING TRAFFIC SIGNAL POLE WITH LUMINAIRE
	= EXISTING PAD MOUNTED TRANSFORMER		= LANE MARKERS TYPE I
	= EXISTING POWER VAULT		= LANE MARKERS TYPE II
	= EXISTING TELEPHONE VAULT		= MAILBOX

LINE LEGEND

	= EXISTING ROADWAY CENTERLINE
	= EXISTING EDGE OF ASPHALT
	= EXISTING EDGE OF CONCRETE
	= EXISTING EDGE OF GRAVEL ROAD
	= EXISTING CURB/PAVEMENT/SIDEWALK
	= EXISTING DRIVEWAY LIMIT
	= EXISTING BUTTON STRIPE
	= EXISTING WHITE STRIPE
	= EXISTING STOP BAR
	= EXISTING STRIPE (CROSS WALK)
	= EXISTING STORM DRAIN LINE
	= EXISTING WATER LINE
	= EXISTING SEWER LINE
	= RECORD WATER LINE
	= EXISTING OVERHEAD ELECTRIC LINES
	= EXISTING FIBER OPTIC LINES
	= EXISTING UNDERGROUND POWER
	= EXISTING UNDERGROUND COMMUNICATIONS LINE
	= EXISTING OVERHEAD COMMUNICATIONS LINE
	= EXISTING UNDERGROUND GAS LINE
	= EXISTING UNDERGROUND DUCT BANK
	= EXISTING GRADE INDEX CONTOUR
	= EXISTING GRADE INTERVAL CONTOUR
	= EXISTING CHAINLINK FENCE
	= EXISTING GUARDRAIL



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6TH STREET PRESERVATION PHASE II ABBREVIATIONS AND LEGEND	
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PN: 1900319	SHEET 2 OF 33
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COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

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6TH STREET PRESERVATION PHASE II SUMMARY OF QUANTITIES	
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PN: 1900319	SHEET 3 OF 33
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SCHEDULE 1 - HMA OVERLAY					SCHEDULE 2 - WATER MAIN				
Item No	Description	Ref	Units	Quantity	Item No	Description	Ref	Units	Quantity
1	MOBILIZATION	1-09.07	LS	1.0	1	MOBILIZATION	1-09.07	LS	1.0
2	REMOVING BITUMINOUS PAVEMENT	2-02.4 SP	SY	138	2	REMOVING BITUMINOUS PAVEMENT	2-02.4 SP	SY	526
3	REMOVING CEMENT CONC. PAVEMENT	2-02.4 SP	SY	138	3	REMOVING CEMENT CONC. SIDEWALK	2-02.4 SP	SY	77
4	REMOVING CEMENT CONC. SIDEWALK	2-02.4 SP	SY	170	4	REMOVING CEMENT CONC. CURB AND GUTTER	2-02.4 SP	LF	115
5	REMOVING CEMENT CONC. CURB AND GUTTER	2-02.4 SP	LF	292	5	SAWCUT	2-02.3(4) SP	LF	3360
6	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	2-02 SP	LS	1.0	6	REMOVING CEMENT CONC. PAVEMENT	2-02.4 SP	SY	526
7	SAWCUT	2-02.3(4) SP	LF	566	7	GATE VALVE 8 IN.	9-30.3(1) SP	EA	5.0
8	PAVEMENT REPAIR EXCAVATION INCL. HAUL	5-04	SY	8.0	8	DUCTILE IRON PIPE FOR WATER MAIN 6 IN. DIAM.	7-09.5	LF	9
9	CATCH BASIN INLET	7-05 SP	EA	1.0	9	DUCTILE IRON PIPE FOR WATER MAIN 8 IN. DIAM.	7-09.5	LF	1405
10	SOLID WALL PVC STORM SEWER PIPE 8 IN. DIAM.	7-04 SP	LF	16	10	TAPPING SLEEVE AND VALVE ASSEMBLY 8 IN.	7-09	EA	1.0
11	SOLID WALL PVC STORM SEWER PIPE 12 IN. DIAM.	7-04 SP	LF	5.0	11	HYDRANT ASSEMBLY	7-14.3	EA	3.0
12	STORM FRAME AND VANED GRATE	7-05 SP	EA	9.0	12	SERVICE CONNECTION 3/4 IN. DIAM	7-15.5	EA	9.0
13	CRUSHED SURFACING BASE COURSE	4-04.5	TN	50	13	SERVICE CONNECTION 2 IN. DIAM	7-15.5	EA	2.0
14	CRUSHED SURFACING TOP COURSE	4-04.5	TN	40	14	RECONNECTING EXISTING FIRE LINE SERVICE	7-14.4 SP	EA	2.0
15	HMA FOR PAVEMENT REPAIR CL. 3/8 IN PG 58H-22	5-04 SP	TN	30	15	POTHOLING	1-07.17(3) SP	EA	4.0
16	PLANING BITUMINOUS PAVEMENT	5-04.3	SY	6970	16	ABANDON WATER MAIN SYSTEM	7-09.3(25) SP	LS	1.0
17	HMA CL. 3/8 IN. PG 58H-22	5-04 SP	TN	1310	17	ADJUST WATER VALVE	7-12.3 SP	EA	6.0
18	JOB MIX COMPLIANCE PRICE ADJUSTMENT	5-04	CALC	1	18	SHORING OR EXTRA EXCAVATION CLASS B	2-09.4	SF	6580
19	PAVEMENT REINFORCEMENT MESH	5-04.3(4)D SP	SY	6966	19	HMA FOR PAVEMENT REPAIR CL. 3/8 IN PG 58H-22	5-04 SP	TN	190
20	SPCC PLAN	1-07.15(1)	LS	1.0	20	CRUSHED SURFACING TOP COURSE	4-04.5	TN	20
21	EROSION CONTROL AND WATER POLLUTION PREVENTION	8-01	LS	1.0	21	CRUSHED SURFACING BASE COURSE	4-04.5	TN	220
22	INLET PROTECTION	8-01	EA	16.0	22	CEMENT CONC. TRAFFIC CURB AND GUTTER	8-04	LF	121
23	CEMENT CONC. TRAFFIC CURB AND GUTTER	8-04	LF	300	23	PROJECT TEMPORARY TRAFFIC CONTROL	1-10 SP	LS	1.0
24	CEMENT CONC. TRAFFIC CURB	8-04	LF	135	24	CEMENT CONC. SIDEWALK	8-14	SY	85.0
25	MOUNTABLE CEMENT CONC. TRAFFIC CURB	8-04	LF	105	25	POTHOLING	1-07.17(3) SP	EA	4.0
26	PAINT LINE	8-22	LF	3070	26	MINOR CHANGE	1-04.4(1)	FA	1.0
27	PLASTIC CROSSWALK LINE	8-22	SF	810					
28	PLASTIC STOP LINE	8-22	LF	110					
29	PLASTIC TRAFFIC ARROW	8-22	EA	6.0					
30	PERMANENT SIGNING	8-21	LS	1.0					
31	TEMPORARY PAVEMENT MARKINGS-SHORT DURATION	8-23	LF	3540					
32	PROJECT TEMPORARY TRAFFIC CONTROL	1-10 SP	LS	1.0					
33	TRAFFIC SIGNAL SYSTEM - PARK AVE	8-20 SP	LS	1.0					
34	ADJUST MANHOLE	7-05 SP	EA	13.0					
35	ADJUST CATCH BASIN	7-05 SP	EA	15.0					
36	ADJUST WATER VALVE	7-12 SP	EA	6.0					
37	ROADWAY SURVEYING	1-05.4 SP	LS	1.0					
38	ADA FEATURES SURVEYING	1-05.4 SP	LS	1.0					
39	ADJUST MONUMENT CASE AND COVER	8-13 SP	EA	1.0					
40	CEMENT CONC. SIDEWALK	8-14	SY	73.0					
41	CEMENT CONCRETE CURB RAMP TYPE PARALLEL A	8-14.4 SP	EA	6.0					
42	MINOR CHANGE	1-04.4(1)	FA	1.0					
43	POTHOLING	1-07.17(3) SP	EA	4.0					
44	ROADSIDE RESTORATION	8-02 SP	FA	1.0					
45	RECORD DRAWINGS (MINIMUM BID \$4,000)	1-05.18 SP	LS	1.0					

GENERAL CONSTRUCTION SEQUENCING

NOTE: THIS IS PROVIDED TO THE CONTRACTOR AS GUIDANCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE SEQUENCING THAT WILL ACCOMPLISH THE PROJECT MOST EFFECTIVELY WITHIN THE BID AND TIME FRAME OF THE CONTRACT. THE CONTRACTOR'S PROPOSED SCHEDULE TO BE PROVIDED TO THE CITY SHOULD INCLUDE AT A MINIMUM THE ITEMS SHOWN IN THE LIST BELOW.

PHASE II (WARREN TO PACIFIC AVENUE)

- PRECONSTRUCTION MEETING WITH PRESENTATION OF SCHEDULE AND TRAFFIC CONTROL PLAN/S
- IMPLEMENTATION OF EROSION CONTROL MEASURES
- POTHOLING FOR WATER LINE
- WATER MAIN INSTALLATION
- CITY TRANSFER OF WATER SERVICES TO NEW WATER LINE (ALLOW 2 WEEKS FROM CITY ACCEPTANCE OF NEW WATER LINE)
- ABANDON EXISTING WATER MAIN
- STORM DRAINAGE WORK
- TRAFFIC SIGNAL FOUNDATION, CONDUIT RUNS, AND JUNCTION BOXES
- RAMP PREPARATION AND CONSTRUCTION, CONCRETE PANEL REMOVALS, SIDEWALK AND CURB/GUTTER REPAIR
- PAVEMENT REPAIR WORK
- PLANE PAVEMENT
- HMA PRE-LEVEL
- PAVEMENT REINFORCEMENT MESH PLACEMENT
- HMA SURFACE PAVEMENT
- PAVEMENT MARKING, TRAFFIC SIGNAL SYSTEM
- UTILITY ADJUSTMENT
- CLEAN UP AND RESTORATION

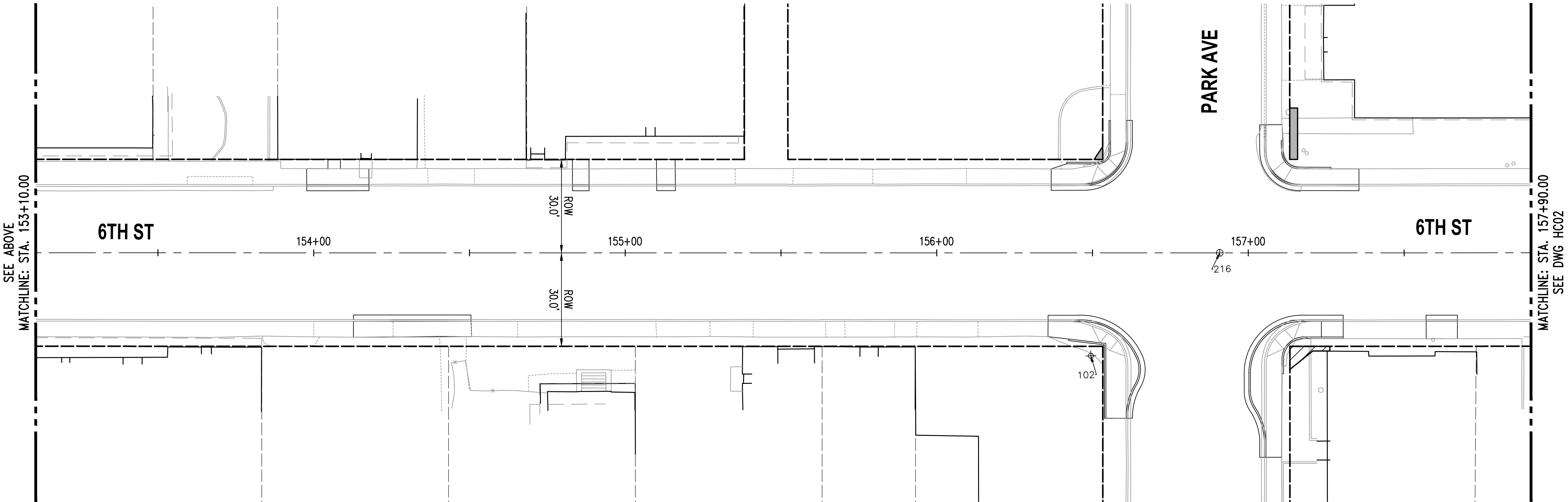
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SURVEY CONTROL POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	212130.0310	1197638.0180	64.277	SET MAGNAIL
101	212131.0855	1197375.2750	49.798	SET MAGNAIL
102	212086.8103	1196820.0470	24.363	SET MAGNAIL
103	212176.2270	1196137.5180	43.182	SET MAGNAIL
112	212154.6838	1196414.1350	29.600	SET MAGNAIL
215	212096.4701	1197671.0410	64.884	FND MIC
216	212118.6955	1196862.3170	24.465	FND MIC
217	212163.2423	1196341.0970	33.859	FND BNC
218	212137.3068	1196195.3020	40.308	FND MIC

POB STA 150+00.00'
N: 212137.9636
E: 1196171.7612

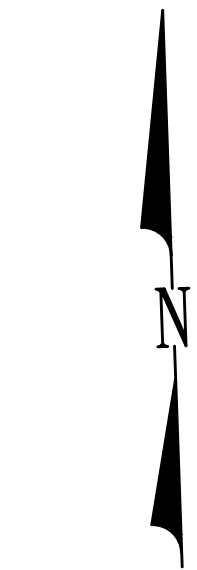


GENERAL NOTES

- REFER TO THIS SHEET FOR MONUMENTS AND CONTROL POINTS.
- DO NOT DISTURB MONUMENTS.

LEGEND

- EXISTING ROW
- PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT
- ROW TRANSFER
- BENCHMARK
- MONUMENT IN CASE



0 10 20 40
1 inch = 20 feet



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HC01

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DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: M. VU DATE 04/2021	DESIGN BY: J. GOODMAN WASH. P.E. # 53732 DATE 04/2021	CHECKED BY: P. SLOAN WASH. P.E. # 37419 DATE 04/2021
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6TH STREET PRESERVATION
PHASE II
HORIZONTAL CONTROL PLAN

PN: 1900319	SHEET 4 OF 33
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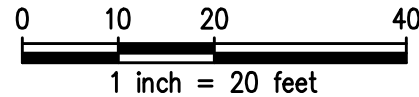
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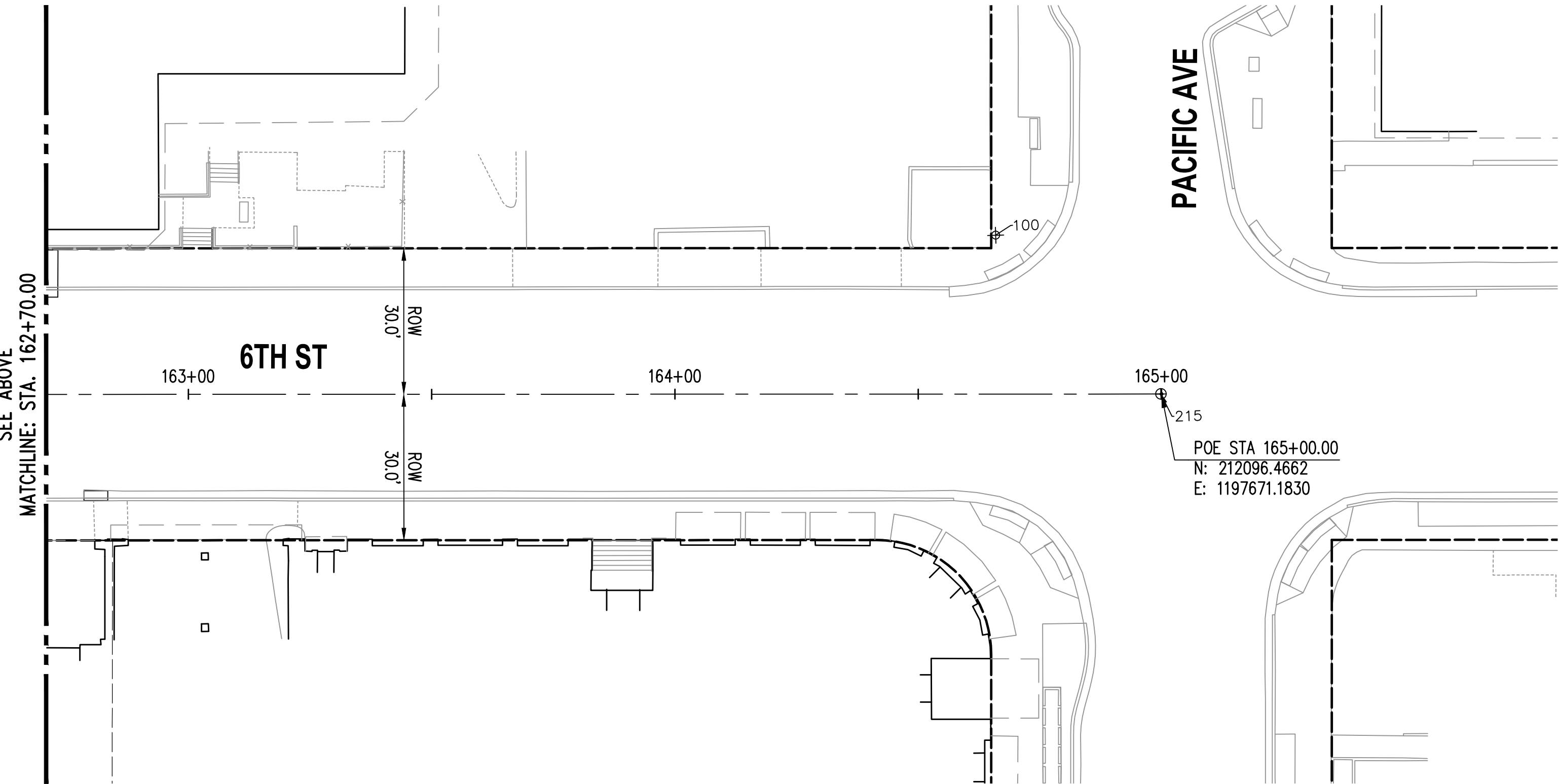
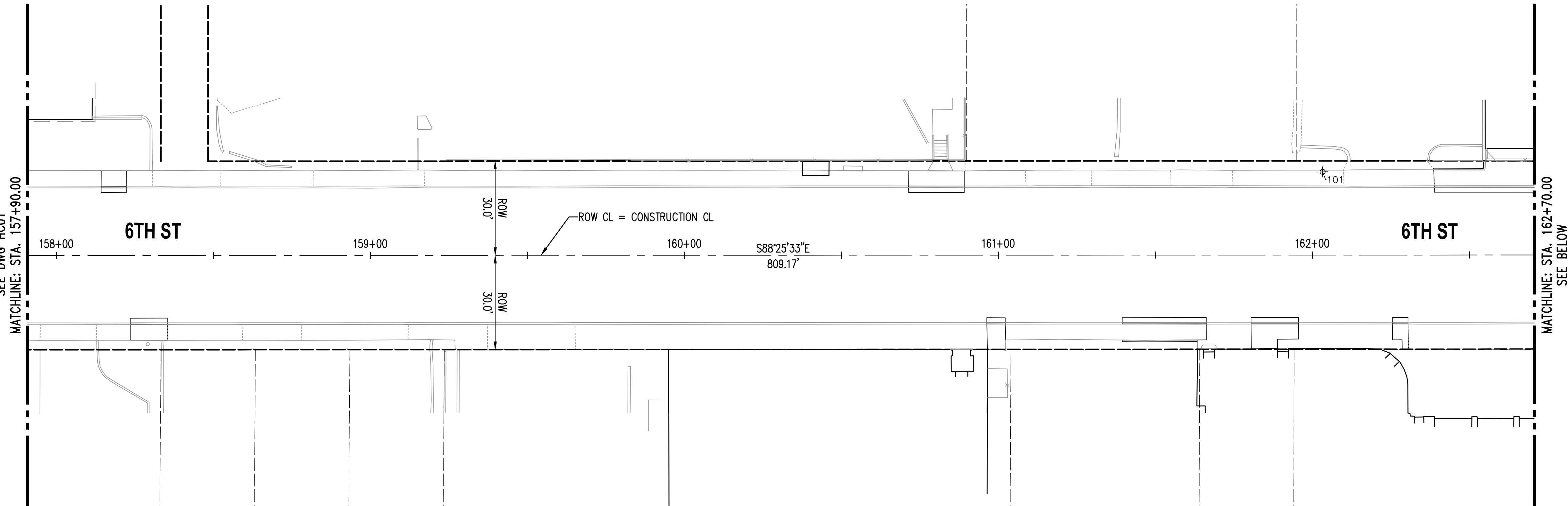
6TH STREET PRESERVATION PHASE II HORIZONTAL CONTROL PLAN	
PN: 1900319	SHEET 5 OF 33



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HC02



GENERAL NOTES

- REFER TO SHEET HC01 FOR MONUMENTS AND CONTROL POINTS.
- DO NOT DISTURB MONUMENTS

LEGEND

- EXISTING ROW
- PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT
- ROW TRANSFER
- BENCHMARK

SURVEY NOTES:

EQUIPMENT AND PROCEDURES

TRIMBLE R10 GNSS GPS RECEIVERS
3" (SECOND) TRIMBLE S-6 TOTAL STATION AND ELECTRONIC DISTANCE MEASURING UNIT, CALIBRATED ON 05/11/2018 AND CONFORMS TO MANUFACTURER'S SPECIFICATIONS BY FRONTIER PRECISION A LOCAL TRIMBLE INSTRUMENT REPRESENTATIVE.
TRIMBLE DINI DIGITAL LEVEL USED WITH A BARCODE FACED LEVELING ROD
LEICA C10 SCANSTATION, A TERRESTRIAL LASER SCANNER CALIBRATED ON 01/08/2019 AND CONFORMS TO MANUFACTURER'S SPECIFICATIONS.

PRIMARY CONTROL POINTS DERIVED BY STATIC GPS OBSERVATIONS
ADDITIONAL SECONDARY CONTROL POINTS DERIVED BY CONVENTIONAL TOTAL STATION TRAVERSE WITH A LEAST SQUARES ADJUSTMENT PROCESSED THROUGH MICROSURVEY STAR*NET SOFTWARE, VERSION 9.1, ALONG WITH CONVENTIONAL DIFFERENTIAL LEVEL RUN

BASIS OF BEARING

STATIC GPS DERIVED BETWEEN LIN AND ASSOCIATES CONTROL POINTS #100 AND #103, N 88°14'12" W, HORIZONTAL DISTANCE = 1501.21'

SURVEY CONTROL POINT #100 IS A SET MAGNAIL @ NW QUAD OF 6TH STREET & PACIFIC AVE.
SURVEY CONTROL POINT #103 IS A SET MAGNAIL @ NW QUAD OF 6TH STREET & WARREN AVE.

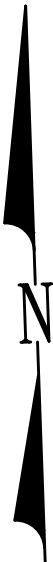
HORIZONTAL DATUM:

PROJECT GROUND COORDINATES BASED UPON WASHINGTON STATE PLANE COORDINATE SYSTEM NAD 83/2011 NORTH ZONE, US SURVEY FOOT.
OBSERVED BY STATIC GPS OBSERVATIONS HOLDING NAD83-2011 REALIZATION GRID COORDINATE OF WSDOT DATA SHEET DESIGNATION OF MAN 5 AND COMPUTING A NAD83-2011 REALIZATION GRID COORDINATE FOR MAN1.
THEN HOLDING SAID COMPUTED A NAD83-2011 REALIZATION GRID COORDINATE OF WSDOT MAN1 AS BASIS OF PROJECT COORDINATE SYSTEM.
ALL MAIN NETWORK GPS OCCUPATION TIMES ARE GREATER THAN 1 HOUR, AT TWO SEPARATE OCCUPATIONS. EACH NETWORK POSITION NUMBERS 100, 103 AND WSDOT MAN 1 WERE PROJECTED TO A GROUND COORDINATE USING TRIMBLE BUSINESS CENTER 5.01 SOFTWARE.
SCALE FACTOR = 1, WHERE GRID = GROUND MEASUREMENTS FOR PROJECT LIMITS.

VERTICAL DATUM:

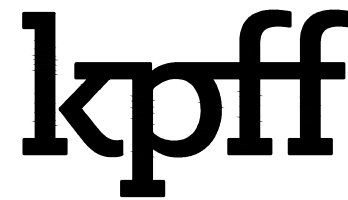
THE VERTICAL DATUM IS NAVD 1988 US SURVEY FOOT, HOLDING WSDOT DATA SHEET DESIGNATION MAN 1 ELEVATION = 67.769, AS BASIS OF PROJECT ELEVATIONS.

LIN & ASSOCIATES PERFORMED A DIFFERENTIAL LEVEL LOOP WITH A TRIMBLE DINI LEVEL AND A BARCODE FACED LEVELING ROD TO ALL PRIMARY AND SECONDARY CONTROL POINTS ALONG 6TH STREET.
STARTING AT LIN & ASSOCIATES # 104 COMPUTED BENCHMARK ELEVATION = 108.428, RUNNING THRU POINT # 110 AND BACK TO #104 WITH A CLOSURE ERROR OF 0.008' IN 5100' LOOP DISTANCE.



COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

Apr 23, 2021 -- 8:45am CAD FILE: michaelv Z:\1900001-1900999\1900319 6th Street Preservation - Phase II\CAD\Design\6SP_EC_EC01.dwg



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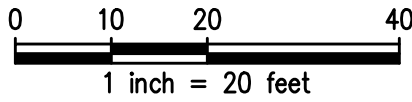
FIELD BOOK
DRAWING NO.

CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			
DRAWN BY: M. VU DATE 04/2021	DESIGN BY: J. GOODMAN WASH. P.E. # 53732 DATE 04/2021	CHECKED BY: P. SLOAN WASH. P.E. # 37419 DATE 04/2021	

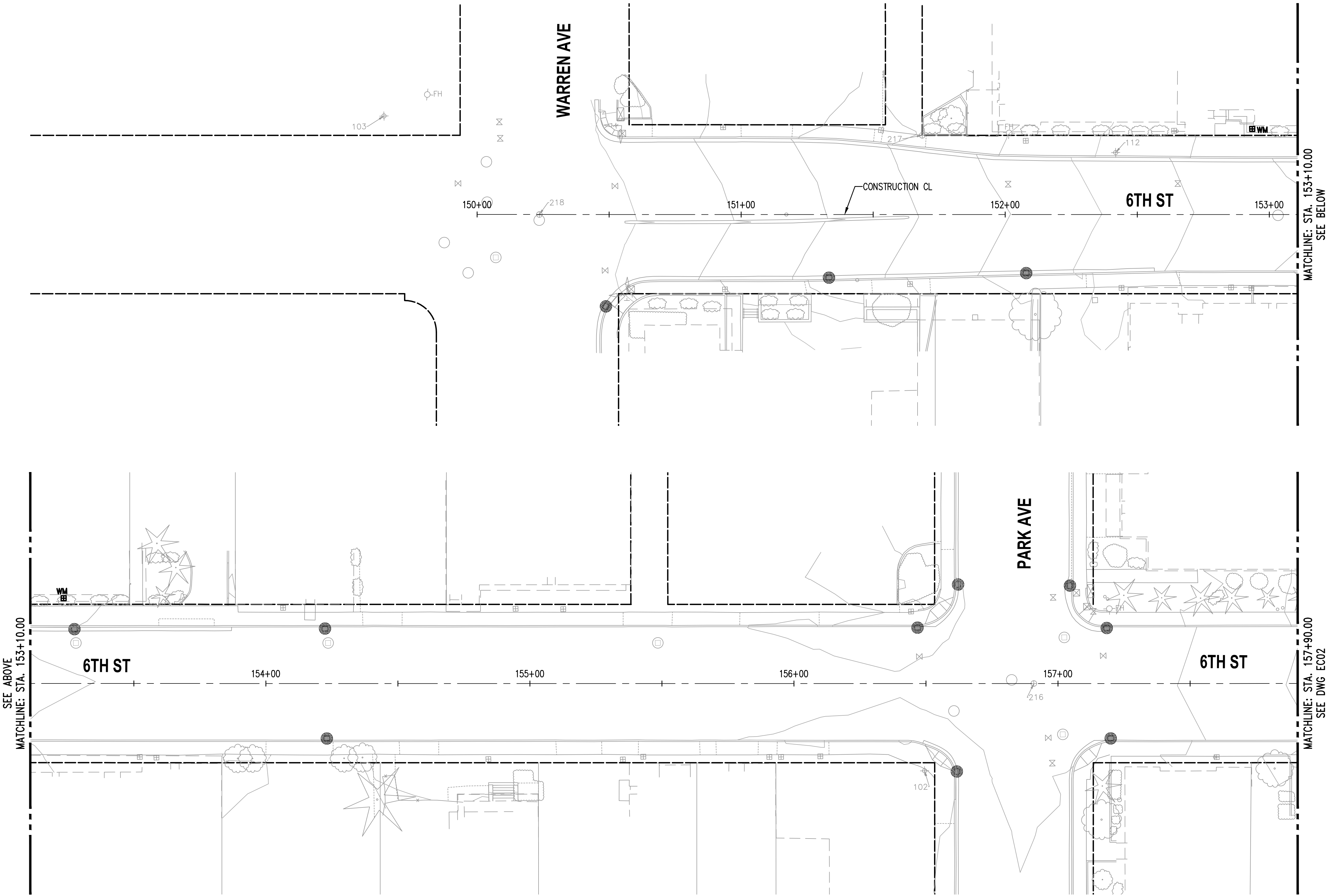
6TH STREET PRESERVATION PHASE II EROSION CONTROL PLAN	
PN: 1900319	SHEET 6 OF 33



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EC01



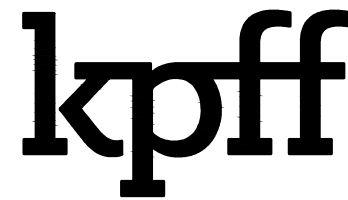
GENERAL NOTES

- INLET PROTECTION SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT STD PLAN I-40.20-00. FOR THRU CURB INLETS, WATTLE SHALL BE PLACED TO COVER THE THRU-CURB PORTION.
- INLET PROTECTION SHALL BE PROVIDED AT ALL INLETS WITHIN, AND 500 FEET DOWNSTREAM OF, THE PROJECT LIMITS.

LEGEND

- STORM DRAIN INLET PROTECTION

Apr 23, 2021 -- 8:45am CAD FILE: microalv Z:\1900001-19000319 6th Street Preservation - Phase II\CADD\Design\6SP_EC_P12.dwg



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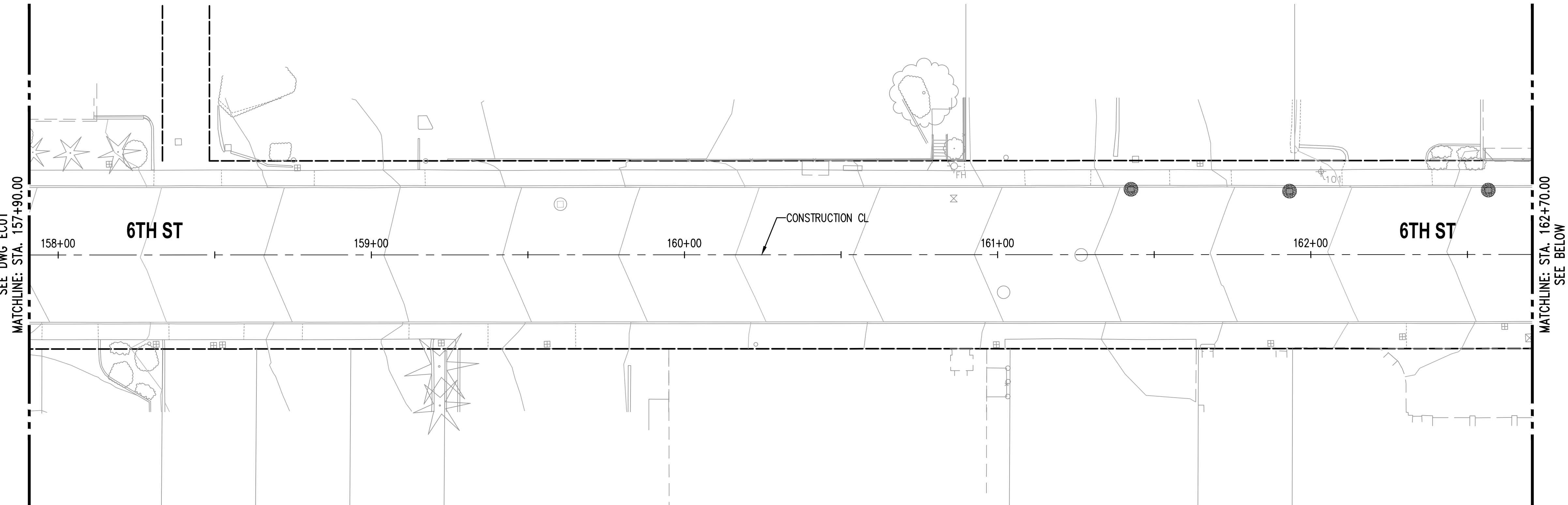
FIELD BOOK
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6TH STREET PRESERVATION
PHASE II
EROSION CONTROL PLAN

PN: 1900319	SHEET
	7 OF 33



GENERAL NOTES

- INLET PROTECTION SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT STD PLAN I-40.20-00. FOR THRU CURB INLETS, WATTLE SHALL BE PLACED TO COVER THE THRU-CURB PORTION.
- INLET PROTECTION SHALL BE PROVIDED AT ALL INLETS WITHIN, AND 500 FEET DOWNSTREAM OF, THE PROJECT LIMITS.

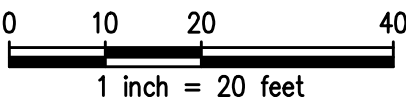
LEGEND

- STORM DRAIN INLET PROTECTION

EROSION/SEDIMENT CONTROL NOTES:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF BREMERTON OR OTHER SPECIFIED STANDARDS AND SPECIFICATIONS.
- THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL SUBMIT A TESC PLAN FOR APPROVAL BY THE ENGINEER.
- A COPY OF THE APPROVED ESC PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE ESC MEASURES SHOWN ON THIS PLAN MUST BE IN PLACE PRIOR TO CONSTRUCTION ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM NOR VIOLATE APPLICABLE WATER STANDARDS.
- THE ESC MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS, LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER.
- THE ESC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC MEASURES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC MEASURES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THEIR ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
- THE ESC MEASURES SHALL BE INSPECTED BY THE PERMITEE/CONTRACTOR DAILY DURING NON-RAINFALL PERIODS. EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS OF THE ESC FACILITIES.
- ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

PACIFIC AVE

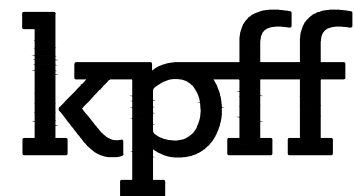


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EC02

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

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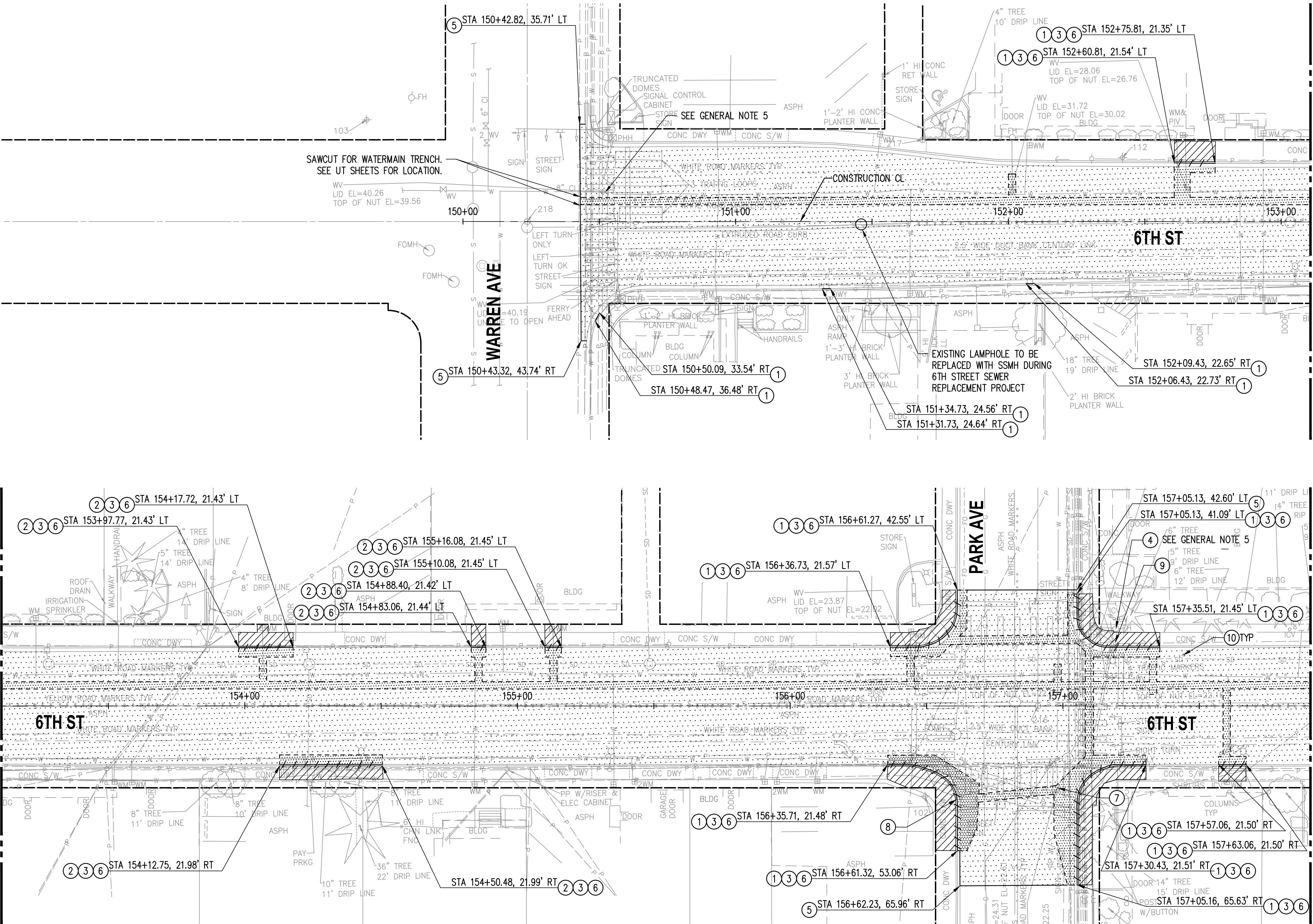
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6TH STREET PRESERVATION
PHASE II
SITE PREPARATION PLAN

PN: 1900319	SHEET 8 OF 33
-------------	------------------------



GENERAL NOTES

- FOR UTILITY ADJUSTMENTS, SEE UT SHEETS.
- PROTECT ALL CURB IN PLACE WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED ON PLANS.
- WHERE FULL DEPTH PAVEMENT IS CALLED OUT, SAWCUT PAVEMENT 2'-0" MIN. AWAY FROM PROPOSED CURB AND GUTTER, AS SHOWN ON DETAIL 2, SHEET DT01, UNLESS OTHERWISE NOTED ON PLANS.
- WHERE SIDEWALK REMOVAL IS CALLED OUT, REMOVE SIDEWALK TO NEAREST JOINT.
- VALVE CAN AND VALVE TO REMAIN IN PLACE. CITY ENGINEER TO PROVIDE METHOD FOR MESSAGE "DO NOT OPERATE"

LEGEND

- RIGHT-OF-WAY
- SAWCUT
- REMOVE CURB AND GUTTER
- PLANE HMA 2" DEPTH
- FULL DEPTH PAVEMENT REMOVAL
- SIDEWALK REMOVAL

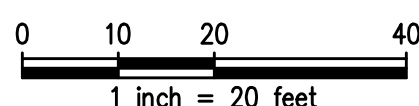
SITE PREPARATION NOTES

- REMOVING CEMENT CONC. CURB AND GUTTER
- REMOVING CEMENT CONC. CURB
- REMOVING CEMENT CONC. SIDEWALK
- REMOVE AND SALVAGE HYDRANT
- PLANING BITUMINOUS PAVEMENT
- REMOVING CEMENT CONC. AND BITUMINOUS PAVEMENT
- REMOVING VALVE BOX
- REMOVING CATCH BASIN AND PORTION OF INCOMING PIPES AS NEEDED
- UTILITY POLE REMOVED BY OTHERS
- REMOVING VERTICAL TRAFFIC MARKERS
- REMOVING TRAFFIC SIGN



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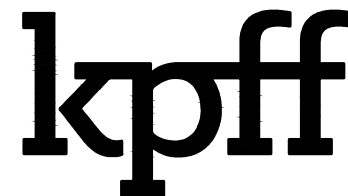


SP01

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

Z:\1900001-1900319\1900319 6th Street Preservation - Phase II\CADD\Design\6SP_SP_P12.dwg

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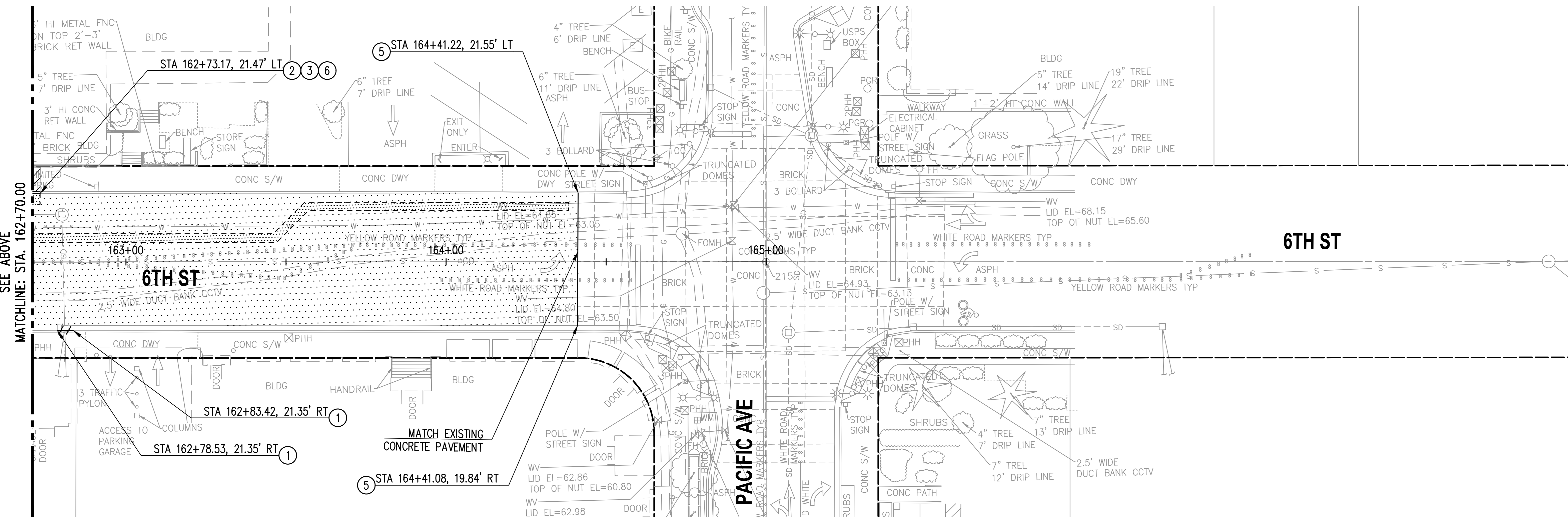
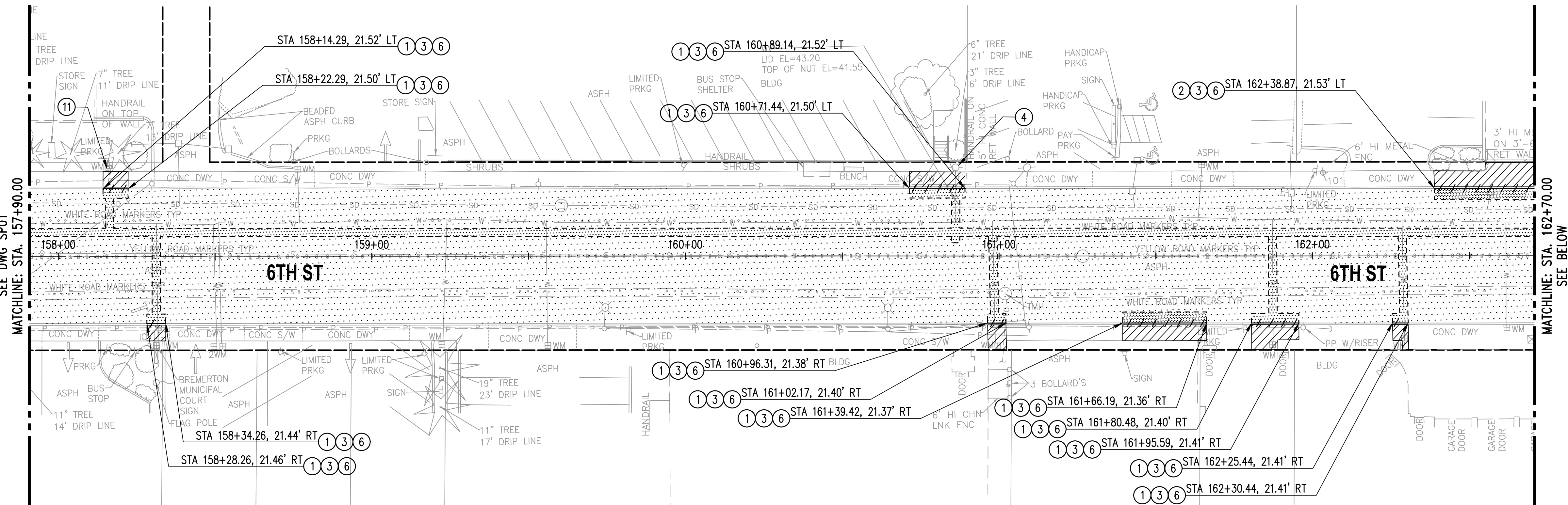
DESIGN BY: J. GOODMAN
WASH. P.E. # 53732 DATE 04/2021

CHECKED BY: P. SLOAN
WASH. P.E. # 37419 DATE 04/2021

6TH STREET PRESERVATION
PHASE II
SITE PREPARATION PLAN

PN: 1900319

SHEET
9
OF
33



GENERAL NOTES

- FOR UTILITY ADJUSTMENTS, SEE UT SHEETS.
- PROTECT ALL CURB IN PLACE WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED ON PLANS.
- WHERE FULL DEPTH PAVEMENT IS CALLED OUT, SAWCUT PAVEMENT 2'-0" MIN. AWAY FROM PROPOSED CURB AND GUTTER, AS SHOWN ON DETAIL 2, SHEET DTO1, UNLESS OTHERWISE NOTED ON PLANS.
- WHERE SIDEWALK REMOVAL IS CALLED OUT, REMOVE SIDEWALK TO NEAREST JOINT.
- VALVE CAN AND VALVE TO REMAIN IN PLACE. CITY ENGINEER TO PROVIDE METHOD FOR MESSAGE "DO NOT OPERATE"

LEGEND

- RIGHT-OF-WAY
- SAWCUT
- REMOVE CURB AND GUTTER
- PLANE HMA 2" DEPTH
- FULL DEPTH PAVEMENT REMOVAL
- SIDEWALK REMOVAL

SITE PREPARATION NOTES

- REMOVING CEMENT CONC. CURB AND GUTTER
- REMOVING CEMENT CONC. CURB
- REMOVING CEMENT CONC. SIDEWALK
- REMOVE AND SALVAGE HYDRANT
- PLANING BITUMINOUS PAVEMENT
- REMOVING CEMENT CONC. AND BITUMINOUS PAVEMENT
- REMOVING VALVE BOX
- REMOVING CATCH BASIN AND PORTION OF INCOMING PIPES AS NEEDED
- UTILITY POLE REMOVED BY OTHERS
- REMOVING VERTICAL TRAFFIC MARKERS
- REMOVING TRAFFIC SIGN



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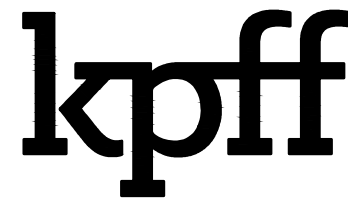
Determina lo que esta bajo tierra.
Llama antes de excavar.

0 10 20 40
1 inch = 20 feet

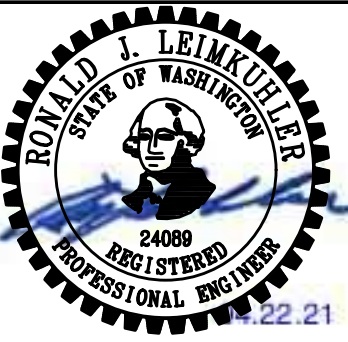
SP02

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

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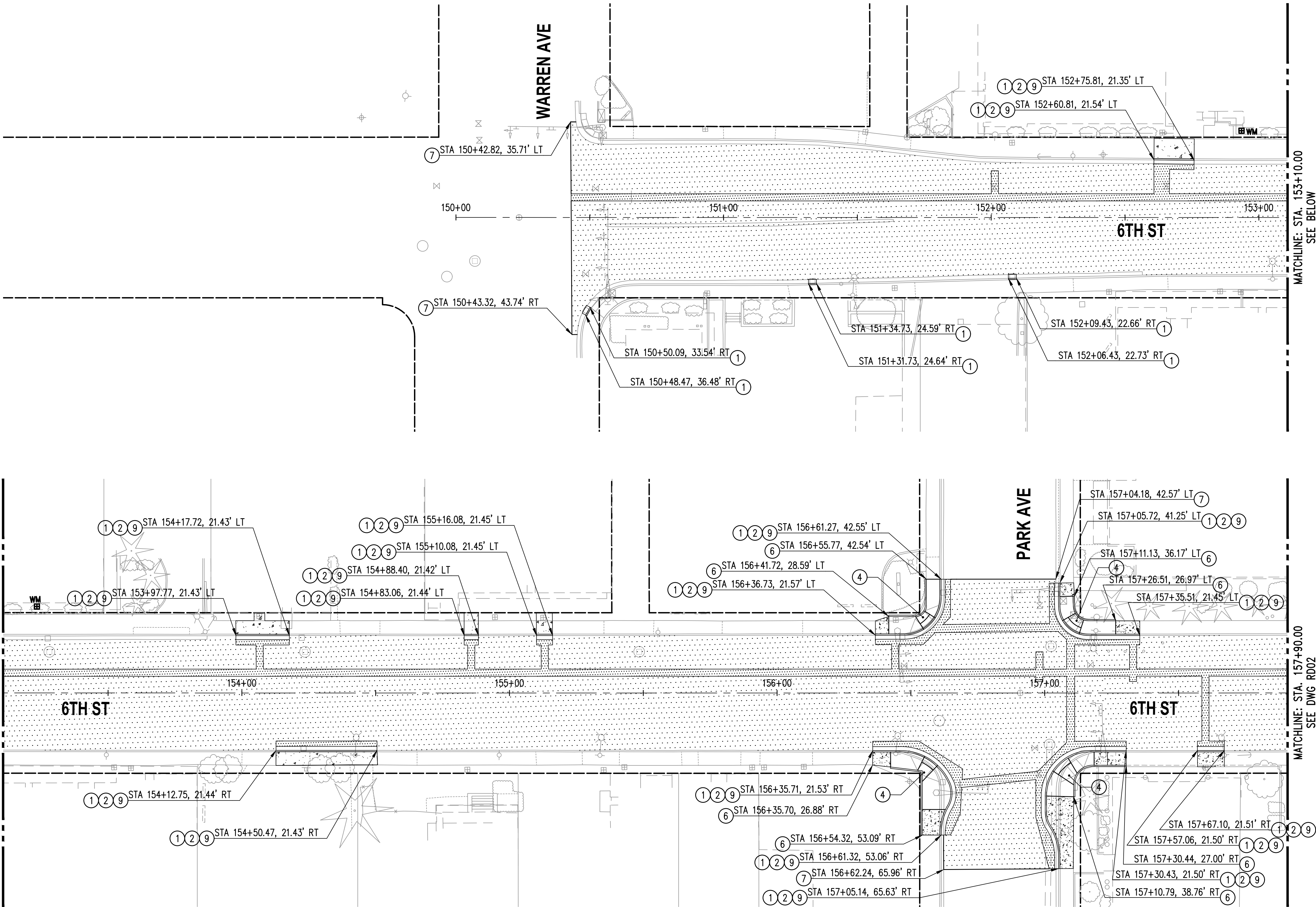


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6TH STREET PRESERVATION PHASE II ROADWAY PLAN	
PN: 1900319	SHEET 10 OF 33



GENERAL NOTES

- SEE ID SHEETS FOR GRADING DETAILS AND ADDITIONAL INFORMATION.
- SEE DETAIL 1, SHEET UD01 FOR FULL DEPTH PAVEMENT WIDTHS ASSOCIATED WITH WATERLINE TRENCH.
- TRANSITION FROM PROPOSED CURB HEIGHT TO EXISTING CURB HEIGHT OUTSIDE OF RAMP LIMITS.

LEGEND

- OVERLAY, SEE DETAIL 1 AND 2, SHEET DT01.
- SIDEWALK
- FULL DEPTH HMA
- EXISTING ROW

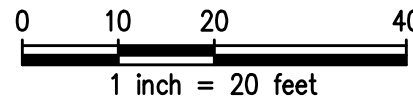
KEY NOTES

- CEMENT CONC. TRAFFIC CURB AND GUTTER, TYPE A PER COB STD PLAN 3131
- CEMENT CONC. SIDEWALK, PER COB STD PLAN 3101
- NOT USED
- CURB RAMP TYPE PARALLEL, PER SHEETS UT01, UT02, AND WSDOT STD PLAN F-40.12-03
- NOT USED
- CEMENT CONC. TRAFFIC CURB, TYPE C-2 PER COB STD PLAN 3133
- PAVEMENT OVERLAY, PER DETAIL 1, SHEET DT01
- NOT USED
- FULL DEPTH PAVEMENT, PER DETAIL 2 AND DETAIL 3, SHEET DT01



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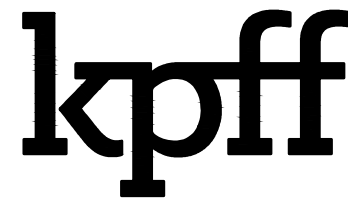
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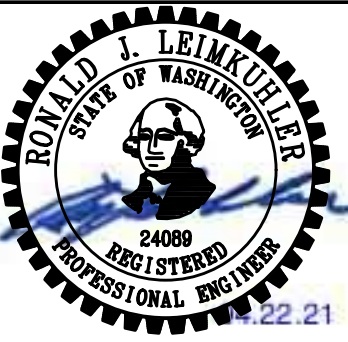
RD01

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

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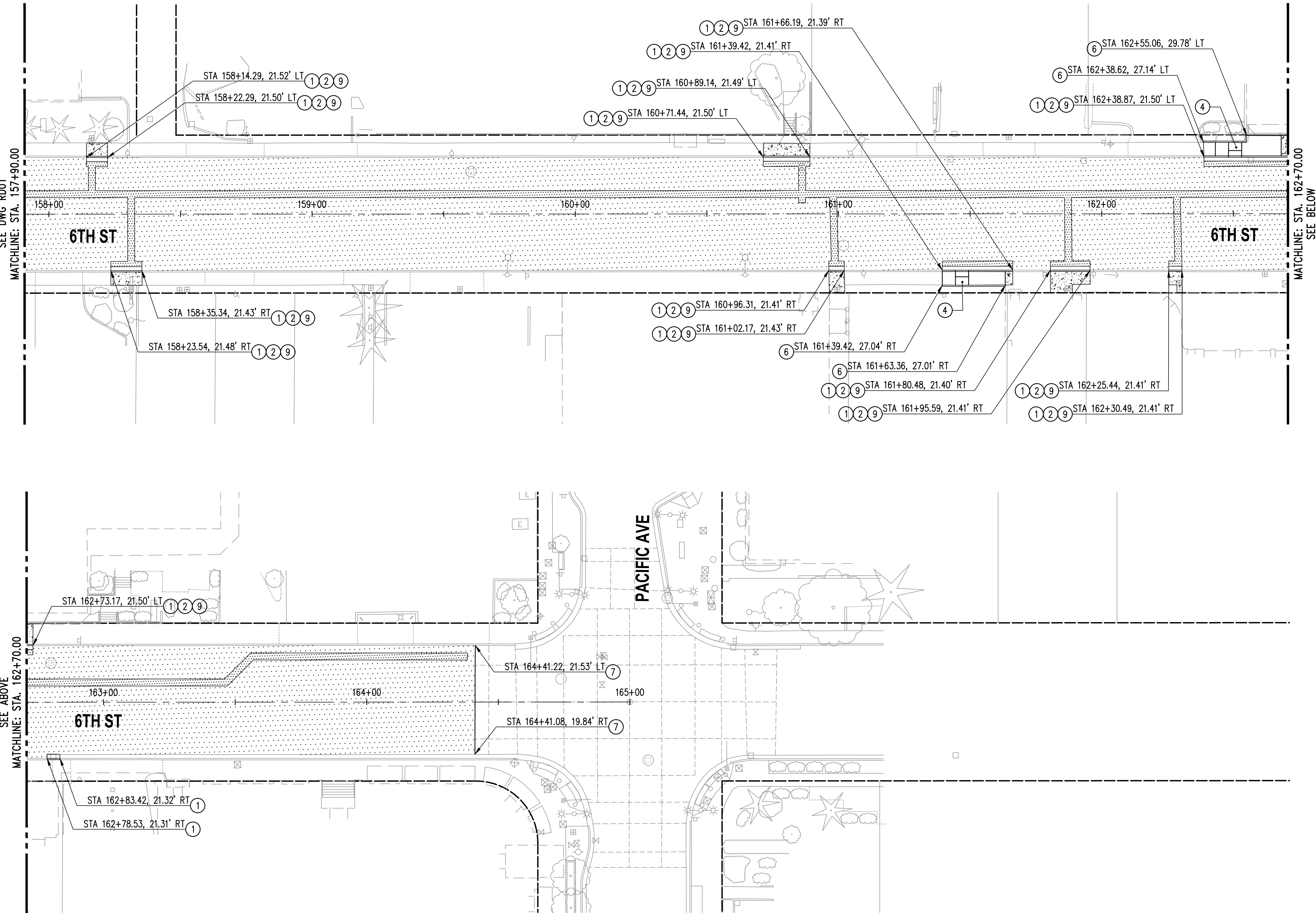
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6TH STREET PRESERVATION
PHASE II
ROADWAY PLAN

PN: 1900319	SHEET
	11
	OF
	33



GENERAL NOTES

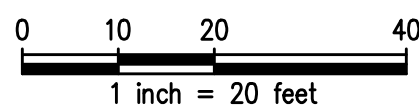
- SEE ID SHEETS FOR GRADING DETAILS AND ADDITIONAL INFORMATION.
- SEE DETAIL 1, SHEET UD01 FOR FULL DEPTH PAVEMENT WIDTHS ASSOCIATED WITH WATERLINE TRENCH.
- TRANSITION FROM PROPOSED CURB HEIGHT TO EXISTING CURB HEIGHT OUTSIDE OF RAMP LIMITS.

LEGEND

- OVERLAY, SEE DETAIL 1 AND 2, SHEET DT01.
- SIDEWALK
- FULL DEPTH HMA
- EXISTING ROW

KEY NOTES

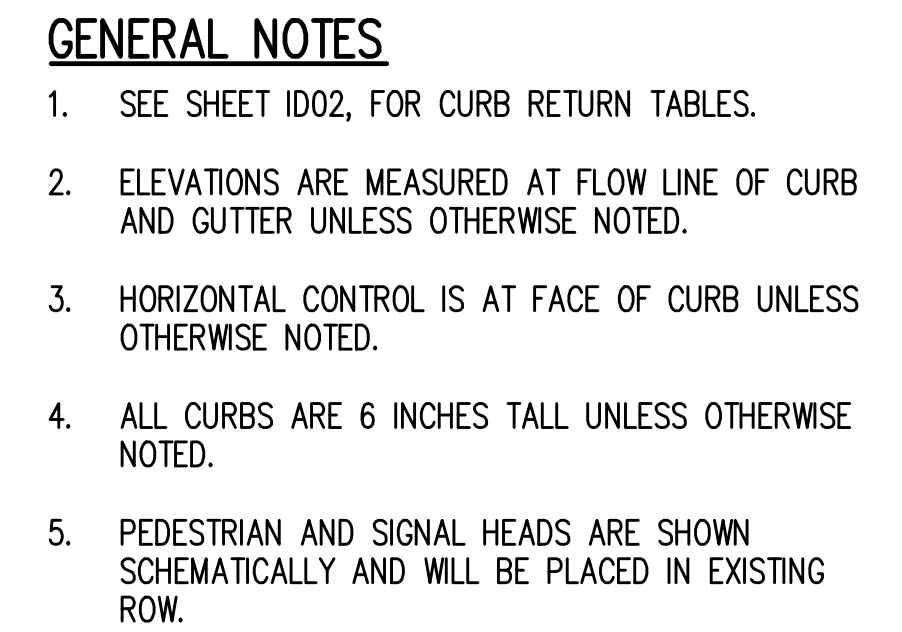
- CEMENT CONC. TRAFFIC CURB AND GUTTER, TYPE A PER COB STD PLAN 3131
- CEMENT CONC. SIDEWALK, PER COB STD PLAN 3101
- NOT USED
- CURB RAMP TYPE PARALLEL, PER SHEETS UT01, UT02, AND WSDOT STD PLAN F-40.12-03
- NOT USED
- CEMENT CONC. TRAFFIC CURB, TYPE C-2 PER COB STD PLAN 3133
- PAVEMENT OVERLAY, PER DETAIL 1, SHEET DT01
- NOT USED
- FULL DEPTH PAVEMENT, PER DETAIL 2 AND DETAIL 3, SHEET DT01



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RD02

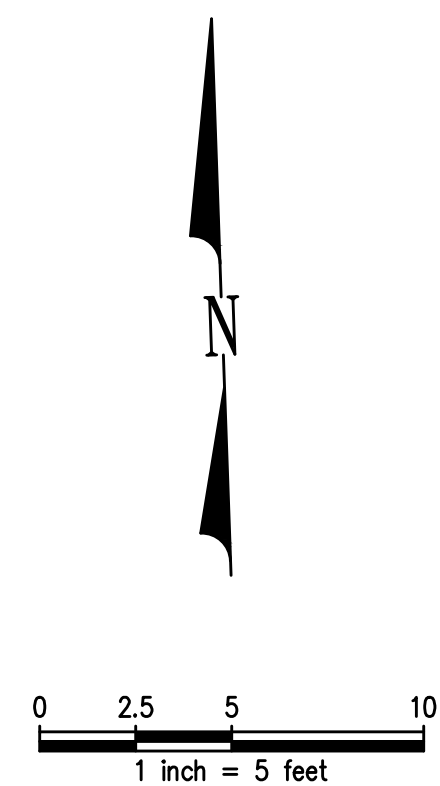
COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET



CURB RAMP SCHEDULE		
POINT	STD PLAN	MEF CODE
1.1	F-40.12-03	*6
1.2	F-40.12-03	-
1.3	F-40.12-03	-
1.4	F-40.12-03	-

MEF CODES

- *1 RIGHT-OF-WAY AVAILABILITY
- *2 ROADWAY STRUCTURAL CONSTRAINT;
WALL, AREAWAY, OR BRIDGE
- *3 ADJACENT DEVELOPED FACILITY
- *4 DRAINAGE
- *5 HISTORIC FEATURE
- *6 EXISTING ROAD/SIDEWALK SLOPES
- *7 EXISTING UTILITY VAULT OR UTILITY STRUCTURE
- *8 (OTHER); DESCRIBE, ADD ANNOTATION



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ID01

CURB RAMP DETAIL

SCALE: 1"=5'

2

RD01

SCALE: 1"=5'

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

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DATE 04/2021

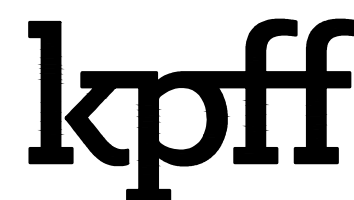
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WASH. P.E. # 53732 DATE 04/2021

CHECKED BY: P. SLOAN
WASH. P.E. # 37419 DATE 04/2021

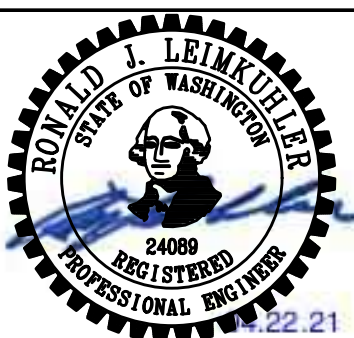
6TH STREET PRESERVATION PHASE II INTERSECTION DETAILS

SHEET
12
OF
33

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET



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6TH STREET PRESERVATION PHASE II INTERSECTION DETAILS	
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PN: 1900319	SHEET 13 OF 33
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CURB RETURN TABLE				
C1	DELTA	RADIUS	TANGENT	LENGTH
	Δ89°59'39"	14.00'	14.00	21.99'
	POINT	STA-OFFSET	FL EL	TC EL
	PC	STA. 156+47.30, 21.60' LT	23.58	–
	1/4	STA. 156+52.63, 22.67' LT	23.56	–
	1/2	STA. 156+57.17, 25.69' LT	23.70	23.70
	3/4	STA. 156+60.21, 30.23' LT	23.83	–
	PT	STA. 156+61.28, 35.80' LT	23.92	–

CURB RETURN TABLE				
C2	DELTA	RADIUS	TANGENT	LENGTH
	Δ88°58'20"	11.00'	10.81	17.08'
	POINT	STA-OFFSET	FL EL	TC EL
	PC	STA. 157+05.24, 32.32' LT	24.09	–
	1/4	STA. 157+06.13, 28.17' LT	24.21	–
	1/2	STA. 157+08.52, 24.66' LT	24.22	24.22
	3/4	STA. 157+12.06, 22.32' LT	24.34	24.34
	PT	STA. 157+16.22, 21.49' LT	24.32	–

CURB RETURN TABLE				
C3	DELTA	RADIUS	TANGENT	LENGTH
	Δ67°47'46"	20.00'	13.44	23.67'
	POINT	STA-OFFSET	FL EL	TC EL
	PC	STA. 156+45.57, 21.52' RT	23.70	–
	1/4	STA. 156+51.42, 22.22' RT	23.68	–
	1/2	STA. 156+56.82, 24.61' RT	23.66	23.33
	3/4	STA. 156+61.28, 28.46' RT	23.64	–
	PCC	STA. 156+64.43, 33.44' RT	23.62	–

CURB RETURN TABLE				
C4	DELTA	RADIUS	TANGENT	LENGTH
	Δ53°52'05"	10.00'	5.08	9.40'
	POINT	STA-OFFSET	FL EL	TC EL
	PCC	STA. 156+64.43, 33.44' RT	23.62	–
	1/4	STA. 156+65.12, 35.68' RT	23.59	–
	1/2	STA. 156+65.26, 38.02' RT	23.64	–
	3/4	STA. 156+64.86, 40.33' RT	23.65	–
	PRC	STA. 156+63.93, 42.49' RT	23.60	–

CURB RETURN TABLE				
C5	DELTA	RADIUS	TANGENT	LENGTH
	Δ31°42'23"	20.00'	5.68	11.07'
	POINT	STA-OFFSET	FL EL	TC EL
	PRC	STA. 156+63.93, 42.49' RT	23.60	–
	1/4	STA. 156+62.72, 44.96' RT	23.53	24.03
	1/2	STA. 156+61.86, 47.59' RT	23.51	24.01
	3/4	STA. 156+61.36, 50.30' RT	23.49	23.99
	PT	STA. 156+61.25, 53.06' RT	23.47	23.94

CURB RETURN TABLE				
C6	DELTA	RADIUS	TANGENT	LENGTH
	Δ33°33'26"	20.00'	6.03	11.71'
	POINT	STA-OFFSET	FL EL	TC EL
	PC	STA. 157+05.07, 61.03' RT	23.80	24.30
	1/4	STA. 157+04.86, 58.11' RT	23.82	24.32
	1/2	STA. 157+04.22, 55.26' RT	23.84	24.34
	3/4	STA. 157+03.18, 52.53' RT	23.86	24.36
	PRC	STA. 157+01.74, 49.98' RT	23.92	24.42

CURB RETURN TABLE				
C7	DELTA	RADIUS	TANGENT	LENGTH
	Δ33°33'28"	10.00'	3.02	5.86'
	POINT	STA-OFFSET	FL EL	TC EL
	PRC	STA. 157+01.74, 49.98' RT	23.92	24.42
	1/4	STA. 157+01.03, 48.70' RT	23.95	24.45
	1/2	STA. 157+00.50, 47.33' RT	23.98	24.48
	3/4	STA. 157+00.19, 45.91' RT	24.01	24.51
	PT	STA. 157+00.08, 44.45' RT	24.03	24.53

CURB RETURN TABLE				
C8	DELTA	RADIUS	TANGENT	LENGTH
	Δ89°55'59"	17.00'	16.98	26.68'
	POINT	STA-OFFSET	FL EL	TC EL
	PC	STA. 157+00.08, 38.51' RT	24.03	24.53
	1/4	STA. 157+01.38, 32.01' RT	24.08	–
	1/2	STA. 157+05.06, 26.50' RT	24.17	24.17
	3/4	STA. 157+10.57, 22.81' RT	24.18	–
	PT	STA. 157+17.07, 21.52' RT	24.22	–

NOTE: TOP OF CURB ELEVATION MAY BE CALCULATED BASED ON ELEVATIONS AND GRADES SHOWN ON ID01 IF NOT DEPICTED ON THIS SHEET.



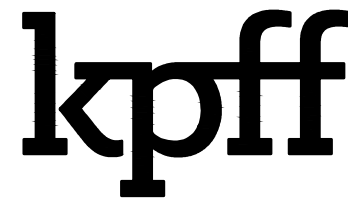
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ID02

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET



Apr 23, 2021 - 8:45am CAD FILE: microalv Z:\900001-1900999\9000319 6th Street Preservation - Phase II\CAD\Design\6SP_CH_P12.DWG



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CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION		
DRAWN BY: M. VU DATE 04/2021	DESIGN BY: J. GOODMAN WASH. P.E. # 53732 DATE 04/2021	CHECKED BY: P. SLOAN WASH. P.E. # 37419 DATE 04/2021

6TH STREET PRESERVATION
PHASE II
CHANNELIZATION PLAN

PN: 1900319	SHEET 15 OF 33
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GENERAL NOTES

1. ALL OUTSIDE LANE DIMENSIONS ARE TO FACE OF CURB.
2. FOR MAST ARM MOUNTED SIGNS, SEE SG SHEETS.

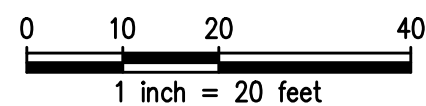
CONSTRUCTION NOTES

- 1 PAINT LINE, MULTI-LANE ROADWAY LINES SEPARATING DIRECTIONAL FLOW PER COB STD PLAN 3265
- 2 PAINT LINE, WHITE, PAVING EDGE LINE PER COB STD PLAN 3625
- 2A PAINT LINE, LANE LINES PER COB, STD PLAN 3265
- 3 PLASTIC STOP BAR, WHITE, 12" WIDE, PER COB STD PLAN 3265
- 4 PLASTIC CROSSWALK LINE, PER COB STD PLAN 3257
- 5 PLASTIC TRAFFIC ARROW, PER COB STD PLAN 3267
- 6 MOUNTABLE CEMENT CONC. TRAFFIC CURB, YELLOW, PER WSDOT STD PLAN F-10.64-03
- 7 PAINT LINE, PARKING SPACE MARKING DETAIL PER DETAIL 4, SHEET DT01
- 8 PAINT LINE, ADA CROSSHATCH PER DETAIL 6, SHEET DT01
- 9 PERMANENT SIGNING, RESERVED PARKING (DISABLED LOGO) SIGN, R7-801, 18" X 12" PER COB STD PLAN 3251
- 10 PERMANENT SIGNING, REMOVE AND RESET EXISTING MANETTE BRIDGE SIGN, REPLACE EXISTING POST, PER COB STD PLAN 3251
- 11 PERMANENT SIGNING, NO PARKING HERE TO CORNER, R7-11, 18" X 12" PER COB STD PLAN 3251



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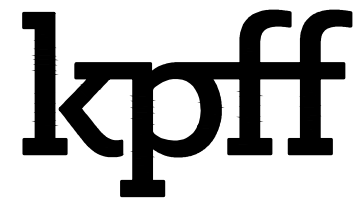
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CH01

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

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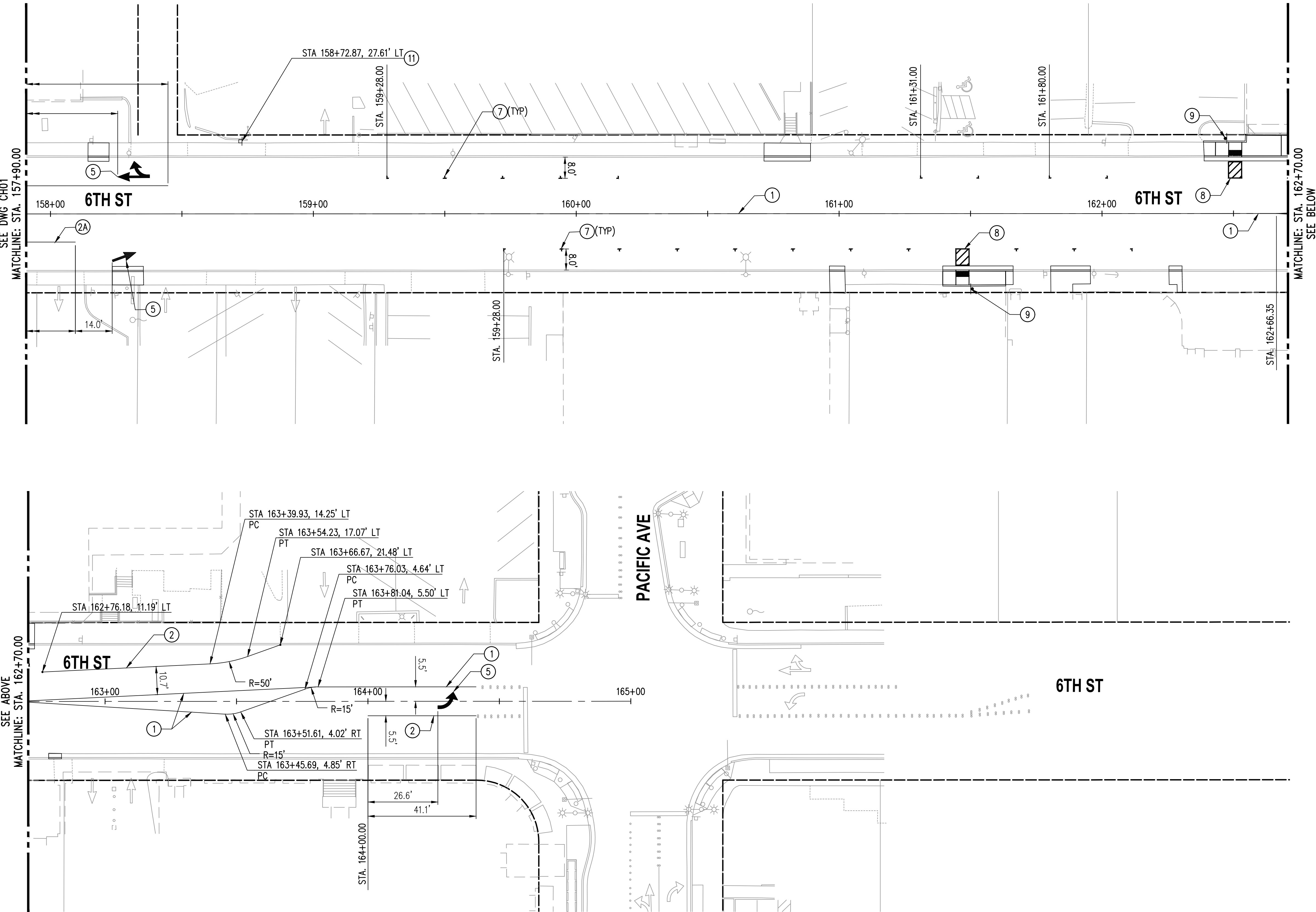
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6TH STREET PRESERVATION
PHASE II
CHANNELIZATION PLAN

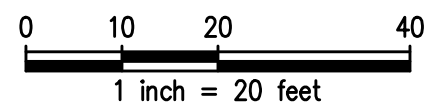
PN: 1900319	SHEET
	16 OF 33



- GENERAL NOTES**
- ALL OUTSIDE LANE DIMENSIONS ARE TO FACE OF CURB.
 - FOR MAST ARM MOUNTED SIGNS, SEE SG SHEETS.
- CONSTRUCTION NOTES**
- PAINT LINE, MULTI-LANE ROADWAY LINES SEPARATING DIRECTIONAL FLOW PER COB STD PLAN 3265
 - PAINT LINE, WHITE, PAVING EDGE LINE PER COB STD PLAN 3265
 - PAINT LINE, LANE LINES PER COB, STD PLAN 3265
 - PLASTIC STOP BAR, WHITE, 12" WIDE, PER COB STD PLAN 3265
 - PLASTIC CROSSWALK LINE, PER COB STD PLAN 3257
 - PLASTIC TRAFFIC ARROW, PER COB STD PLAN 3267
 - MOUNTABLE CEMENT CONC. TRAFFIC CURB, YELLOW, PER WSDOT STD PLAN F-10.64-03
 - PAINT LINE, PARKING SPACE MARKING DETAIL PER DETAIL 4, SHEET DT01
 - PAINT LINE, ADA CROSSHATCH PER DETAIL 6, SHEET DT01
 - PERMANENT SIGNING, RESERVED PARKING (DISABLED LOGO) SIGN, R7-801, 18" X 12" PER COB STD PLAN 3251
 - PERMANENT SIGNING, REMOVE AND RESET EXISTING MANETTE BRIDGE SIGN, REPLACE EXISTING POST, PER COB STD PLAN 3251
 - PERMANENT SIGNING, NO PARKING HERE TO CORNER, R7-11, 18" X 12" PER COB STD PLAN 3251



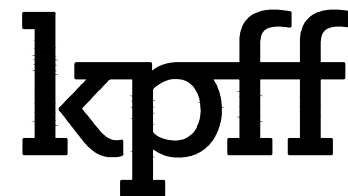
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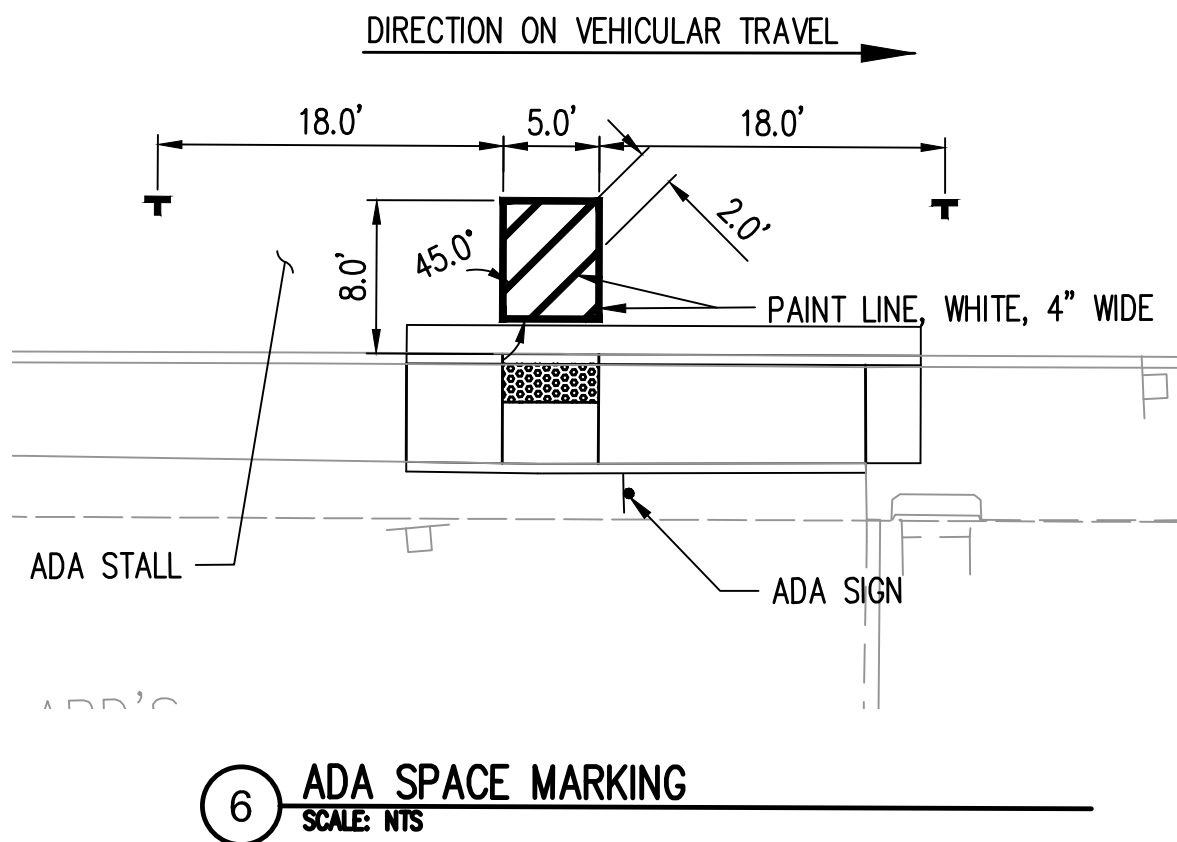
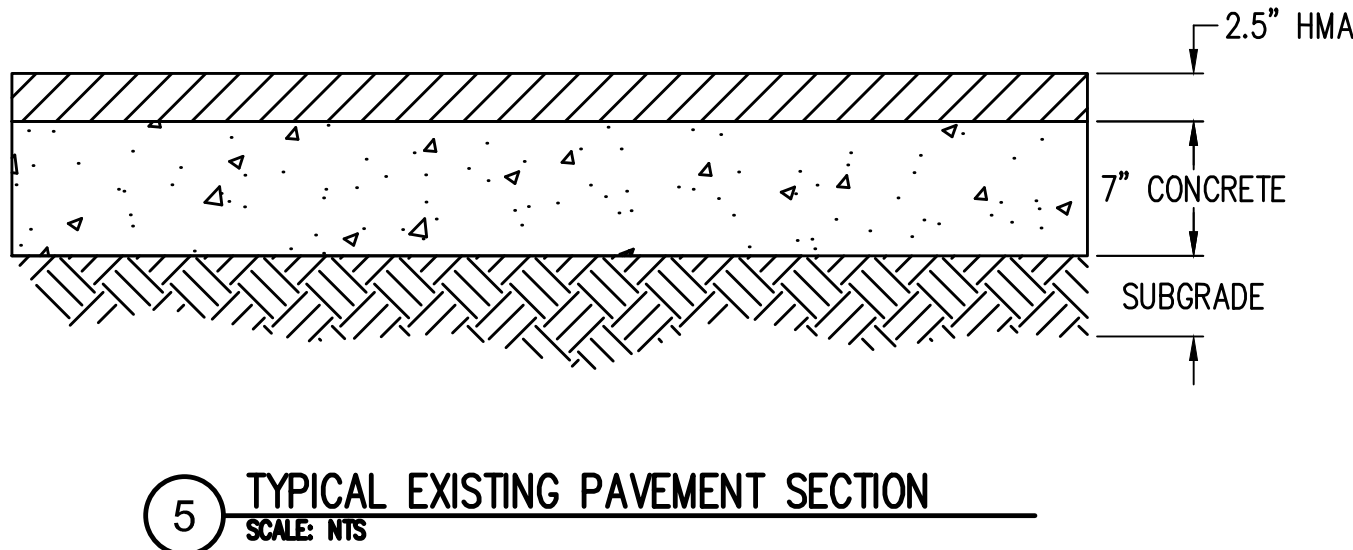
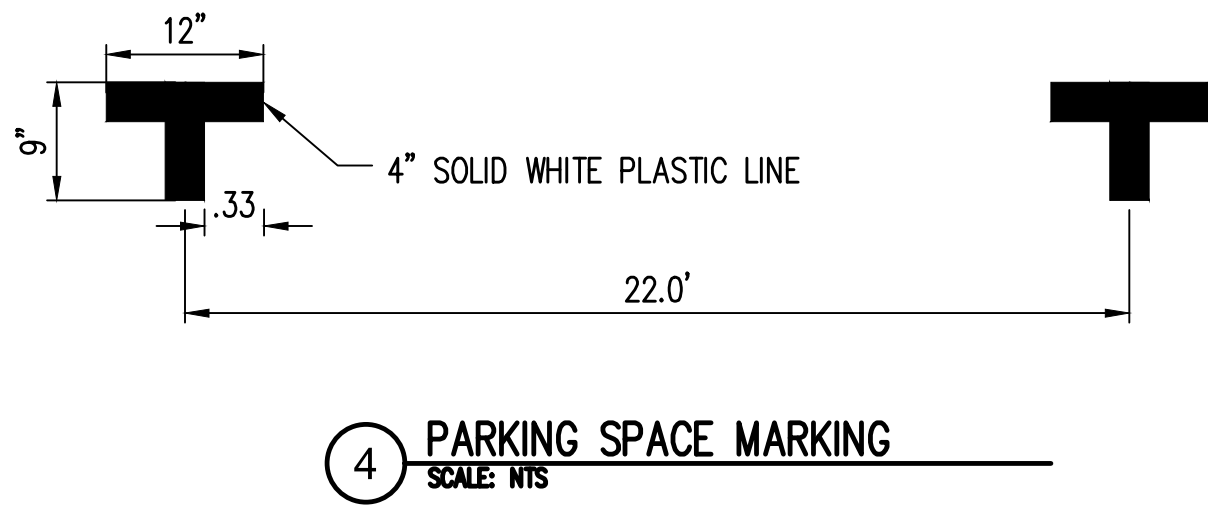
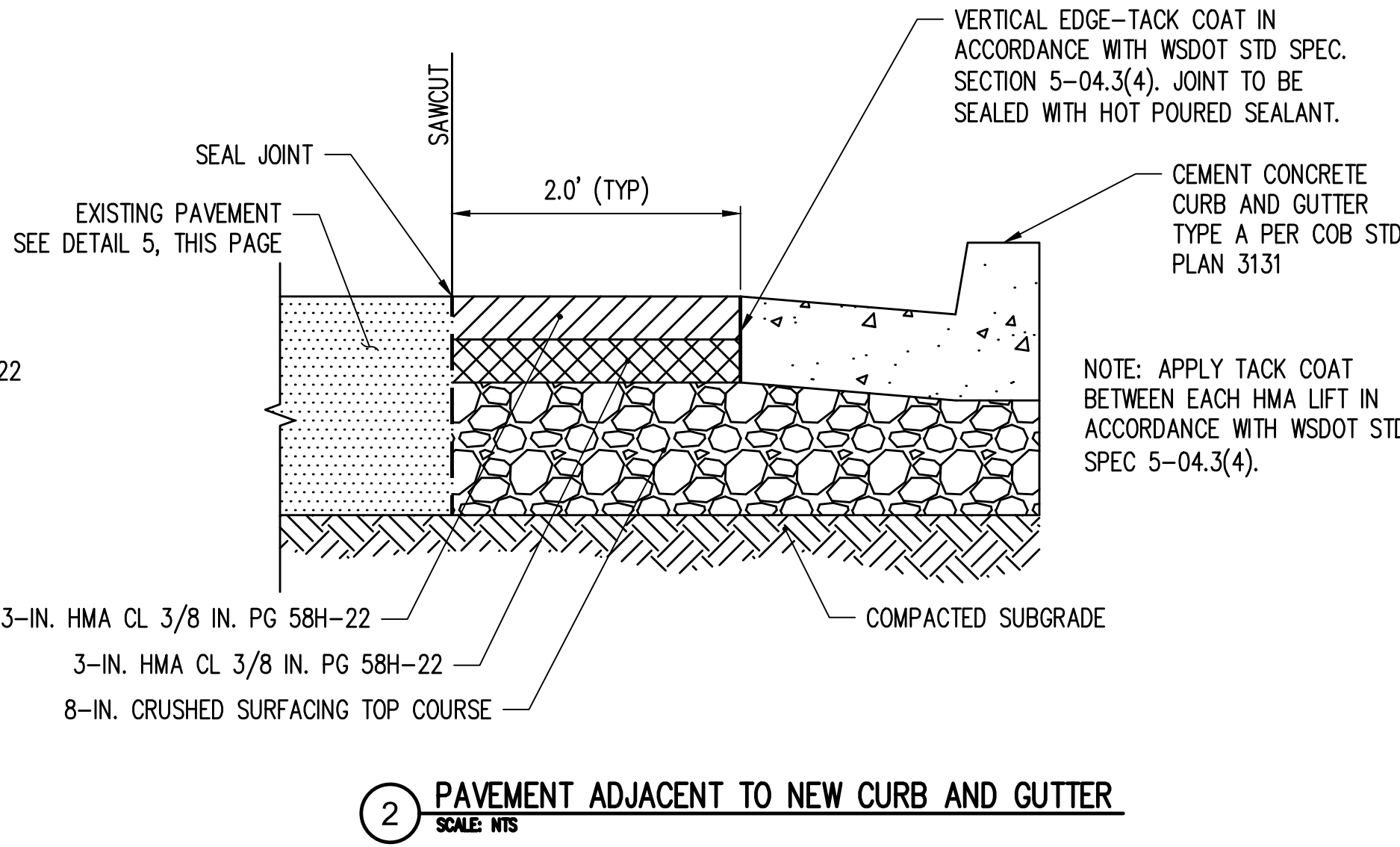
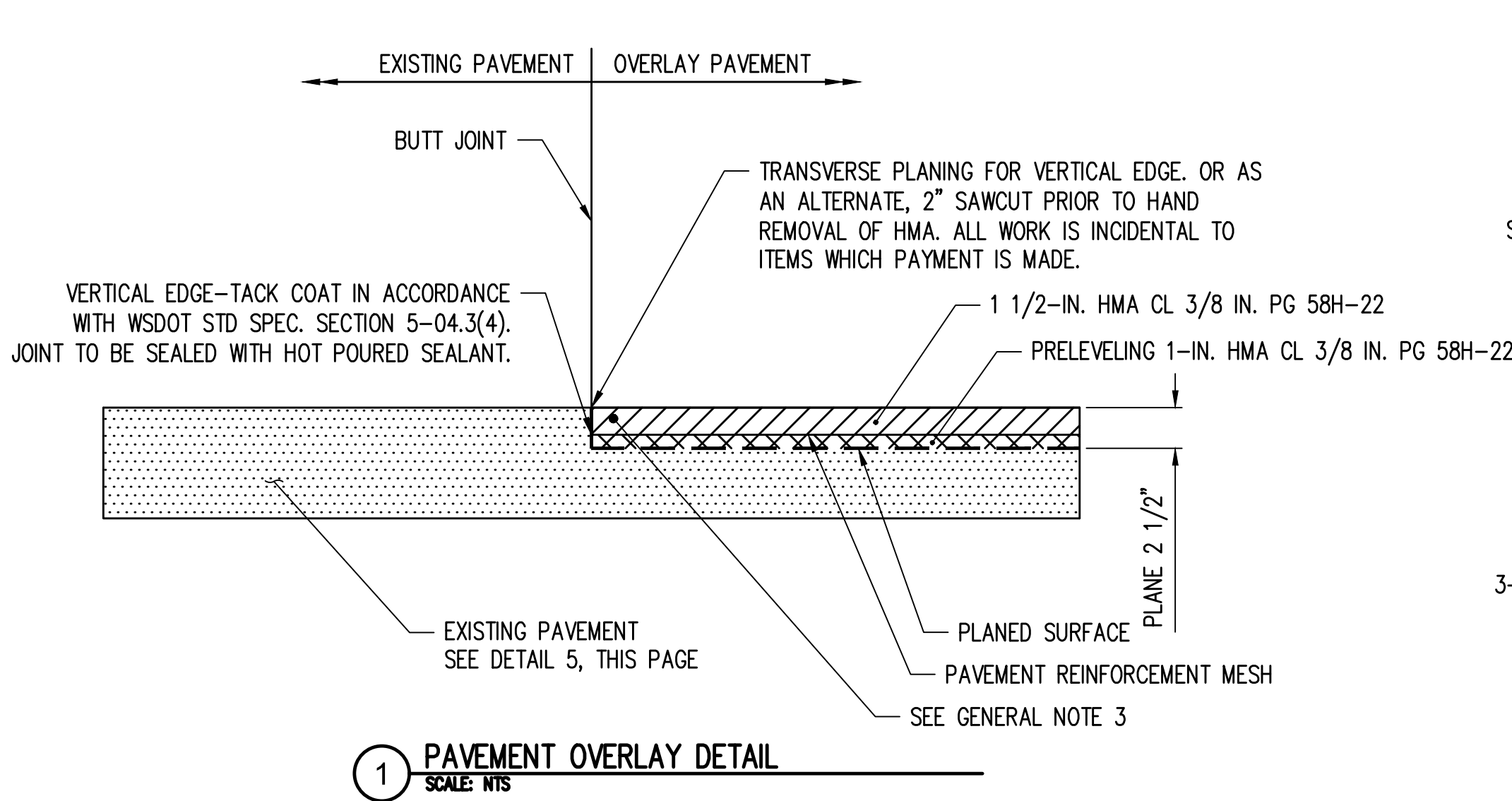
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6TH STREET PRESERVATION
PHASE II
MISC. DETAILS

PN: 1900319	SHEET 17 OF 33
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COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET



GENERAL NOTE:

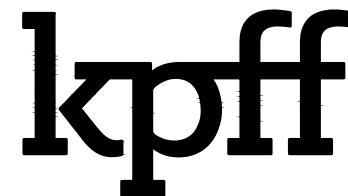
- PAVEMENT REPAIR OPERATIONS, WHEN REQUIRED, SHALL BE ACCOMPLISHED PRIOR TO PLANING. REPAIR AREAS SHALL BE PLANED BEFORE FINAL PAVEMENT OVERLAY LIFT.
- ADA CROSSHATCH SHALL BE CENTERED ON RAMP LANDING.
- AFTER PLANING, CREATE A SMOOTH TRANSITION USING COLD MIX ASPHALT. LIP TO BE NO MORE THAN 1/10 INCH. TRANSITION NOT TO EXCEED 2:1.



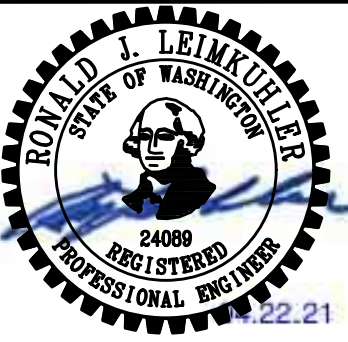
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DT01

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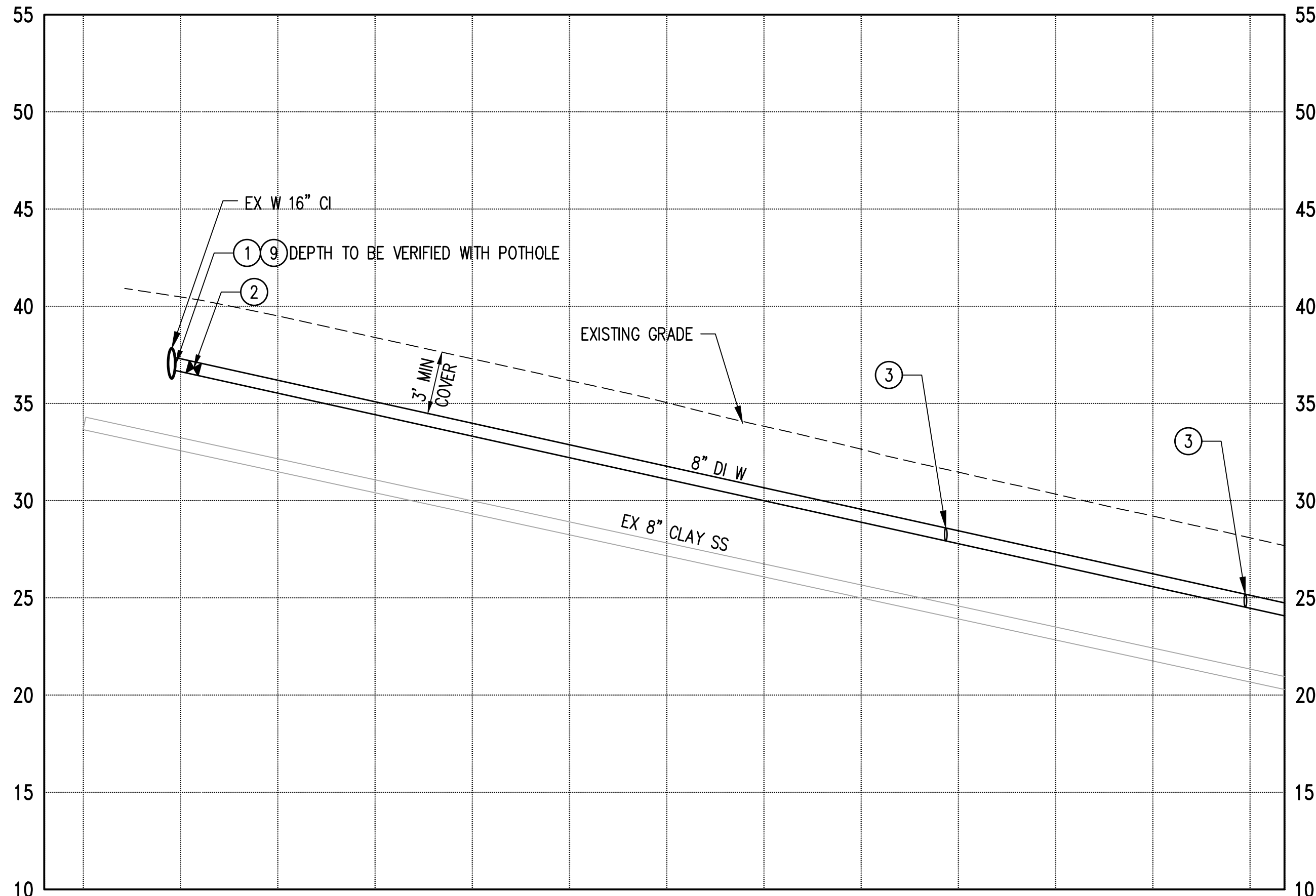
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6TH STREET PRESERVATION
PHASE II
UTILITY PLAN

PN: 1900319	SHEET
	18 OF 33

CONSTRUCTION NOTES

- 1 WATER MAIN CONNECTION, SEE DETAIL 2, SHEET UD01
- 2 GATE VALVE 8 IN. (MJ)
- 3 RECONNECTING EXISTING FIRE HYDRANT/LINE SERVICE, SEE DETAIL 9, SHEET UD02
- 4 REPLACE FRAME AND COVER PER COB STD PLAN 4010 AND 4012
- 5 ADJUST WATER VALVE TO FINAL GRADE
- 6 ADJUST MANHOLE TO FINAL GRADE
- 7 ADJUST MONUMENT CASE AND COVER
- 8 SERVICE CONNECTION 2 IN. DIAM., DOMESTIC, SEE COB STD PLAN 5003. SALVAGE METER, SEE SPC. PROV.
- 9 SHORING OR EXTRA EXCAVATION CLASS B, PROVIDE SHORED TRENCH FOR ACCESS BY CITY STAFF, HOT TAP OF EXISTING MAIN TO BE PERFORMED BY CITY
- 10 NOT USED
- 11 ABANDON WATER MAIN SYSTEM, 8" CUT AND CAP, SEE DETAIL 7, SHEET UD02
- 12 SERVICE CONNECTION 3/4 IN. DIAM., DOMESTIC, SEE COB STD PLAN 5001. SALVAGE METER, SEE SPC. PROV.
- 13 PVC PIPE, SEE PLAN FOR DIAM.
- 14 CATCH BASIN INLET, SEE COB STD. PLAN 4001
- 15 WATER MAIN CONNECTION, SEE DETAIL 3, SHEET UD01
- 16 WATER MAIN CONNECTION, SEE DETAIL 5, SHEET UD02
- 17 HYDRANT ASSEMBLY, SEE COB STD PLAN 5081 AND 5084. CONSTRUCT THRUST BLOCK BEHIND TEE CONNECTION PER DETAIL 4, SHEET UD01.
- 18 ADJUST CATCH BASIN TO FINAL GRADE
- 19 REPLACE COVER WITH DECORATIVE STORM RING AND COVER PER COB STD PLAN 4022
- 20 NOT IN USE
- 21 UTILITY POLE REMOVED BY OTHERS. CONTRACTOR TO COORDINATE WITH PSE.



8" DI WATER PROFILE
SCALE: 1"=20' H, 1"=5'V



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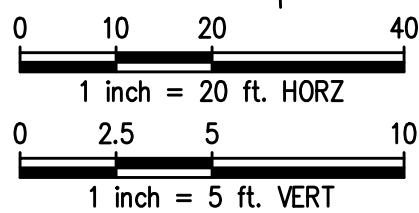
UT01

GENERAL NOTES

1. POTHOLE UTILITY CROSSINGS ALONG PROPOSED WATER MAIN ALIGNMENT TO VERIFY DEPTH AND LOCATION OF CROSSINGS. PROVIDE POTHOLING INFORMATION TO THE ENGINEER. THE ENGINEER MAY REVISE THE DEPTH OF THE NEW WATER MAIN OR DIRECT THE CONTRACTOR TO RELOCATE EXISTING UTILITIES AS NEEDED TO CONSTRUCT THE NEW MAIN.
2. CONTRACTOR TO PERFORM WATER SERVICE CONNECTIONS TO NEW WATER MAIN.
3. REFER TO DETAIL 1, SHEET UD01 FOR WATERLINE TRENCHING DETAIL.
4. ALL DUCTILE IRON PIPE AND FITTINGS FOR WATER MAIN SHALL BE RESTRAINED JOINT PIPE.
5. SANITARY SEWER SHOWN IN 8 IN. DI WATER PROFILE IS OFFSET FROM WATER LINE. SANITARY SEWER LINE SHOWN IS FROM SURVEY TAKEN BETWEEN JUNE 6 THRU JULY 1 OF 2019 AND AS-BUILTS FROM 6TH ST SEWER REPLACEMENT PROJECT. CONTRACTOR TO CONFIRM AS-BUILTS FROM RECENT PROJECTS.

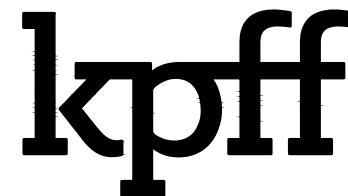
LEGEND

- WATER LINE
- GATE VALVE
- HYDRANT
- THRUST BLOCK
- TEE ASSEMBLY
- AREA TO POTHOLE PRE-CONSTRUCTION OF WATER MAIN
- WATER METER

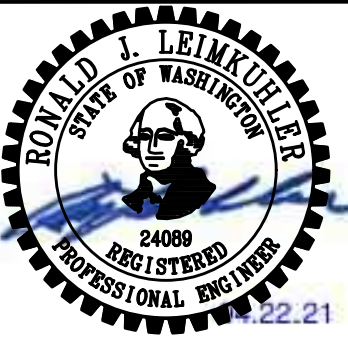


COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

Apr 23, 2021 - 1:55pm CAD FILE: lloydramm Z:\1900001-1900399\1900319 6th Street Preservation - Phase II\CADD\Design\6SP_UT_P12.dwg



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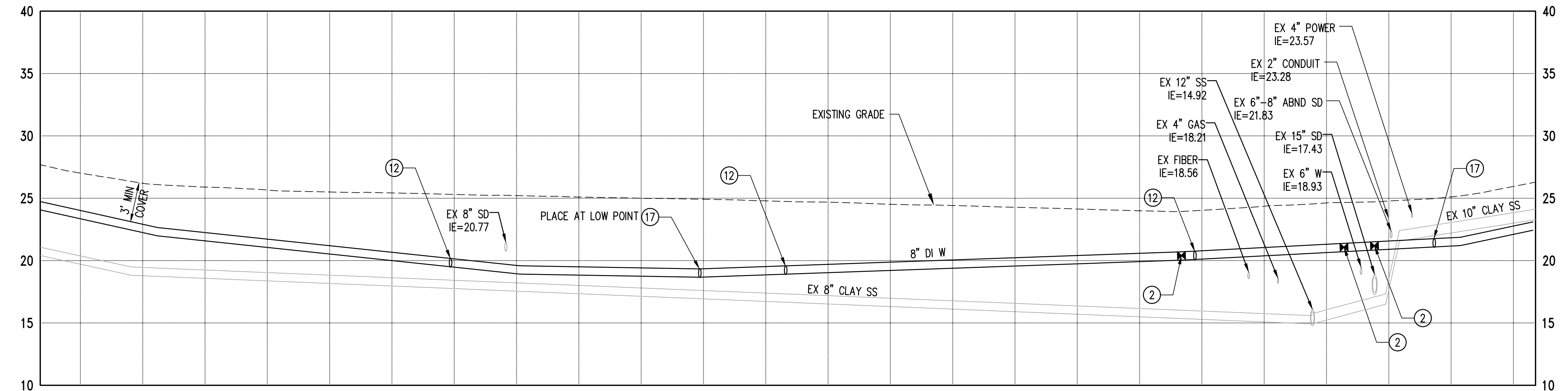
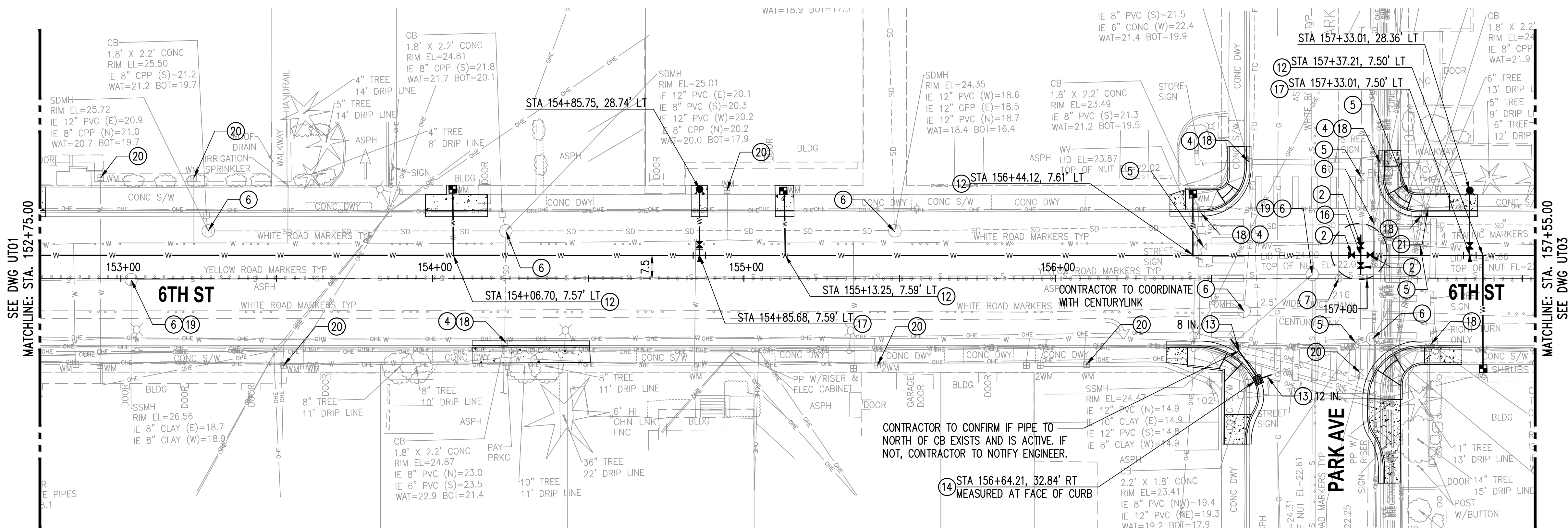
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6TH STREET PRESERVATION PHASE II UTILITY PLAN

PN: 1900319	SHEET
	19 OF 33



8" DI WATER PROFILE
SCALE: 1"=20' H, 1"=5'V

- 15 WATER MAIN CONNECTION, SEE DETAIL 3, SHEET UD01
- 16 WATER MAIN CONNECTION, SEE DETAIL 5, SHEET UD02
- 17 HYDRANT ASSEMBLY, SEE COB STD PLAN 5081 AND 5084. CONSTRUCT THRUST BLOCK BEHIND TEE CONNECTION PER DETAIL 4, SHEET UD01.
- 18 ADJUST CATCH BASIN TO FINAL GRADE
- 19 REPLACE COVER WITH DECORATIVE STORM RING AND COVER PER COB STD PLAN 4022
- 20 NOT IN USE
- 21 UTILITY POLE REMOVED BY OTHERS. CONTRACTOR TO COORDINATE WITH PSE.

GENERAL NOTES

- POTHOLE UTILITY CROSSINGS ALONG PROPOSED WATER MAIN ALIGNMENT TO VERIFY DEPTH AND LOCATION OF CROSSINGS. PROVIDE POTHOLING INFORMATION TO THE ENGINEER. THE ENGINEER MAY REVISE THE DEPTH OF THE NEW WATER MAIN OR DIRECT THE CONTRACTOR TO RELOCATE EXISTING UTILITIES AS NEEDED TO CONSTRUCT THE NEW MAIN.
- CONTRACTOR TO PERFORM WATER SERVICE CONNECTIONS TO NEW WATER MAIN.
- REFER TO DETAIL 1, SHEET UD01 FOR WATERLINE TRENCHING DETAIL.
- ALL DUCTILE IRON PIPE AND FITTINGS FOR WATER MAIN SHALL BE RESTRAINED JOINT PIPE.
- SANITARY SEWER SHOWN IN 8 IN. DI WATER PROFILE IS OFFSET FROM WATER LINE. SANITARY SEWER LINE SHOWN IS FROM SURVEY TAKEN BETWEEN JUNE 6 THRU JULY 1 OF 2019 AND AS-BUILTS FROM 6TH ST SEWER REPLACEMENT PROJECT. CONTRACTOR TO CONFIRM AS-BUILT LOCATION.

LEGEND

- WATER LINE
- GATE VALVE
- HYDRANT
- THRUST BLOCK
- TEE ASSEMBLY
- AREA TO POTHOLE PRE-CONSTRUCTION OF WATER MAIN
- WATER METER

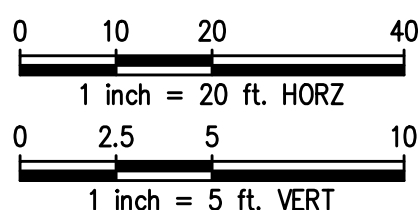
CONSTRUCTION NOTES

- WATER MAIN CONNECTION, SEE DETAIL 2, SHEET UD01
- GATE VALVE 8 IN. (MJ)
- RECONNECTING EXISTING FIRE HYDRANT/LINE SERVICE, SEE DETAIL 9, SHEET UD02
- REPLACE FRAME AND COVER PER COB STD PLAN 4010 AND 4012
- ADJUST WATER VALVE TO FINAL GRADE
- ADJUST MANHOLE TO FINAL GRADE
- ADJUST MONUMENT CASE AND COVER
- SERVICE CONNECTION 2 IN. DIAM., DOMESTIC, SEE COB STD PLAN 5003. SALVAGE METER, SEE SPC. PROV.
- SHORING OR EXTRA EXCAVATION CLASS B, PROVIDE SHORED TRENCH FOR ACCESS BY CITY STAFF, HOT TAP OF EXISTING MAIN TO BE PERFORMED BY CITY
- NOT USED
- ABANDON WATER MAIN SYSTEM, 8" CUT AND CAP, SEE DETAIL 7, SHEET UD02
- SERVICE CONNECTION 3/4 IN. DIAM., DOMESTIC, SEE COB STD PLAN 5001. SALVAGE METER, SEE SPC. PROV.
- PVC PIPE, SEE PLAN FOR DIAM.
- CATCH BASIN INLET, SEE COB STD. PLAN 4001



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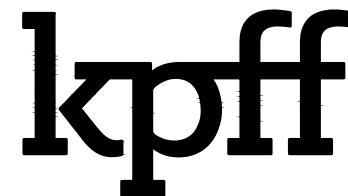
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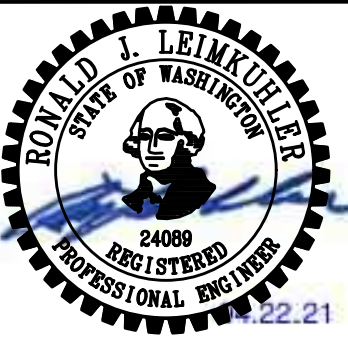
UT02

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

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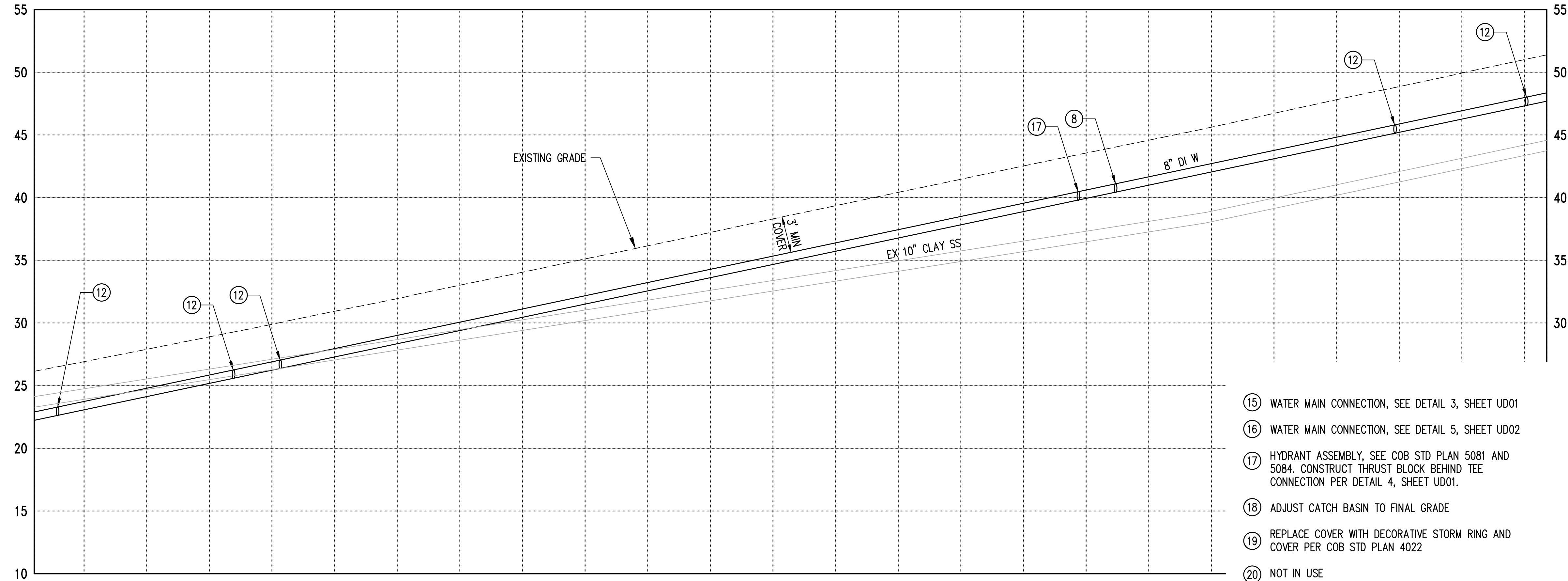
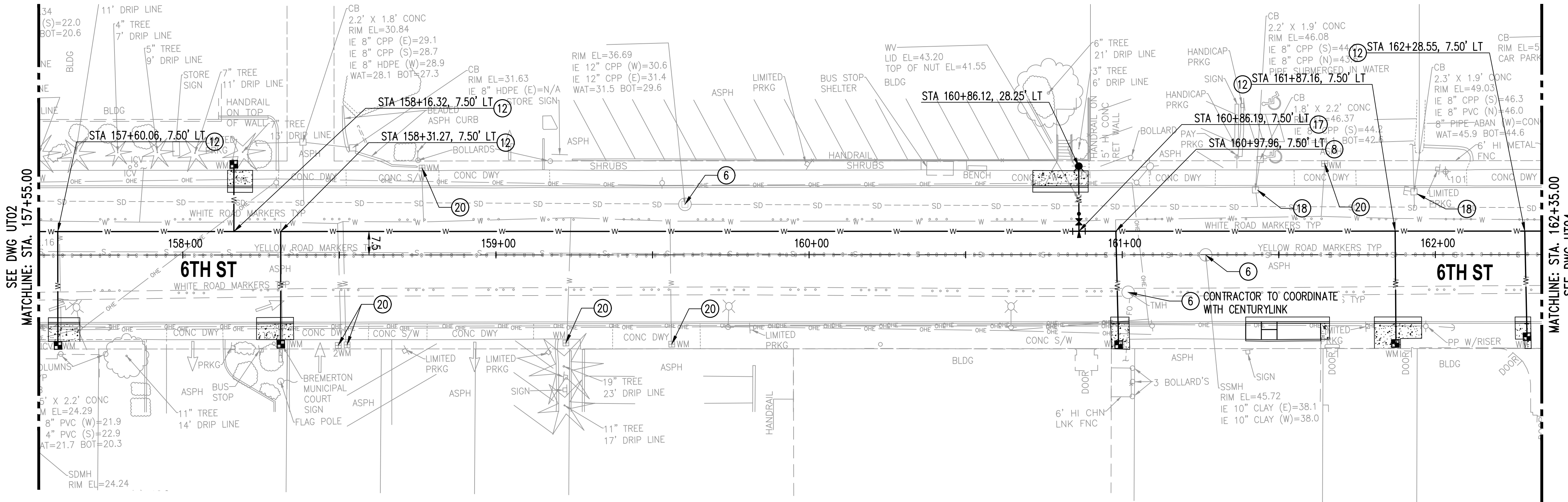
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**6TH STREET PRESERVATION
PHASE II
UTILITY PLAN**

PN: 1900319	SHEET
	20 OF 33



8" DI WATER PROFILE
SCALE: 1"=20' H, 1"=5'V

- (15) WATER MAIN CONNECTION, SEE DETAIL 3, SHEET UD01
(16) WATER MAIN CONNECTION, SEE DETAIL 5, SHEET UD02
(17) HYDRANT ASSEMBLY, SEE COB STD PLAN 5081 AND 5084. CONSTRUCT THRUST BLOCK BEHIND TEE CONNECTION PER DETAIL 4, SHEET UD01.
(18) ADJUST CATCH BASIN TO FINAL GRADE
(19) REPLACE COVER WITH DECORATIVE STORM RING AND COVER PER COB STD PLAN 4022
(20) NOT IN USE
(21) UTILITY POLE REMOVED BY OTHERS. CONTRACTOR TO COORDINATE WITH PSE.

GENERAL NOTES

- POTHOLE UTILITY CROSSINGS ALONG PROPOSED WATER MAIN ALIGNMENT TO VERIFY DEPTH AND LOCATION OF CROSSINGS. PROVIDE POTHOLING INFORMATION TO THE ENGINEER. THE ENGINEER MAY REVISE THE DEPTH OF THE NEW WATER MAIN OR DIRECT THE CONTRACTOR TO RELOCATE EXISTING UTILITIES AS NEEDED TO CONSTRUCT THE NEW MAIN.
- CONTRACTOR TO PERFORM WATER SERVICE CONNECTIONS TO NEW WATER MAIN.
- REFER TO DETAIL 1, SHEET UD01 FOR WATERLINE TRENCHING DETAIL.
- ALL DUCTILE IRON PIPE AND FITTINGS FOR WATER MAIN SHALL BE RESTRAINED JOINT PIPE.
- SANITARY SEWER SHOWN IN 8 IN. DI WATER PROFILE IS OFFSET FROM WATER LINE. SANITARY SEWER LINE SHOWN IS FROM SURVEY TAKEN BETWEEN JUNE 6 THRU JULY 1 OF 2019 AND AS-BUILTS FROM 6TH ST SEWER REPLACEMENT PROJECT. CONTRACTOR TO CONFIRM AS-BUILTS FROM RECENT PROJECTS.

LEGEND

- w— WATER LINE
✱ GATE VALVE
● HYDRANT
▶ THRUST BLOCK
T TEE ASSEMBLY
○ AREA TO POTHOLE PRE-CONSTRUCTION OF WATER MAIN
■ WATER METER

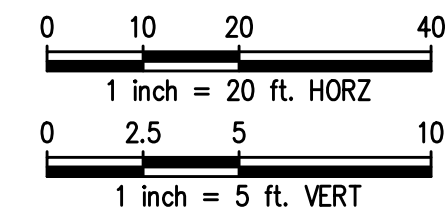
CONSTRUCTION NOTES

- (1) WATER MAIN CONNECTION, SEE DETAIL 2, SHEET UD01
(2) GATE VALVE 8 IN. (MJ)
(3) RECONNECTING EXISTING FIRE HYDRANT/LINE SERVICE, SEE DETAIL 9, SHEET UD02
(4) REPLACE FRAME AND COVER PER COB STD PLAN 4010 AND 4012
(5) ADJUST WATER VALVE TO FINAL GRADE
(6) ADJUST MANHOLE TO FINAL GRADE
(7) ADJUST MONUMENT CASE AND COVER
(8) SERVICE CONNECTION 2 IN. DIAM., DOMESTIC, SEE COB STD PLAN 5003. SALVAGE METER, SEE SPC. PROV.
(9) SHORING OR EXTRA EXCAVATION CLASS B, PROVIDE SHORED TRENCH FOR ACCESS BY CITY STAFF, HOT TAP OF EXISTING MAIN TO BE PERFORMED BY CITY
(10) NOT USED
(11) ABANDON WATER MAIN SYSTEM, 8" CUT AND CAP, SEE DETAIL 7, SHEET UD02
(12) SERVICE CONNECTION 3/4 IN. DIAM., DOMESTIC, SEE COB STD PLAN 5001. SALVAGE METER, SEE SPC. PROV.
(13) PVC PIPE, SEE PLAN FOR DIAM.
(14) CATCH BASIN INLET, SEE COB STD. PLAN 4001



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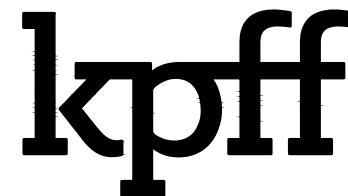
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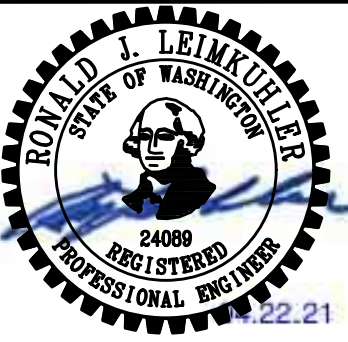
UT03

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

Apr 23, 2021 - 1:52pm CAD FILE: tolorcomm Z:\19000001-19000319\900319 6th Street Preservation - Phase II\CADD\Design\6SP_UT_UT_P12.dwg



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CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			
DRAWN BY: M. VU DATE 04/2021	DESIGN BY: J. GOODMAN WASH. P.E. # 53732 DATE 04/2021	CHECKED BY: P. SLOAN WASH. P.E. # 37419 DATE 04/2021	

6TH STREET PRESERVATION
PHASE II
UTILITY PLAN

PN: 1900319	SHEET
	21 OF 33

GENERAL NOTES

- POTHOLE UTILITY CROSSINGS ALONG PROPOSED WATER MAIN ALIGNMENT TO VERIFY DEPTH AND LOCATION OF CROSSINGS. PROVIDE POTHOLING INFORMATION TO THE ENGINEER. THE ENGINEER MAY REVISE THE DEPTH OF THE NEW WATER MAIN OR DIRECT THE CONTRACTOR TO RELOCATE EXISTING UTILITIES AS NEEDED TO CONSTRUCT THE NEW MAIN.
- CONTRACTOR TO PERFORM WATER SERVICE CONNECTIONS TO NEW WATER MAIN.
- REFER TO DETAIL 1, SHEET UD01 FOR WATERLINE TRENCHING DETAIL.
- ALL DUCTILE IRON PIPE AND FITTINGS FOR WATER MAIN SHALL BE RESTRAINED JOINT PIPE.
- SANITARY SEWER SHOWN IN 8 IN. DI WATER PROFILE IS OFFSET FROM WATER LINE. SANITARY SEWER LINE SHOWN IS FROM SURVEY TAKEN BETWEEN JUNE 6 THRU JULY 1 OF 2019 AND AS-BUILTS FROM 6TH ST SEWER REPLACEMENT PROJECT. CONTRACTOR TO CONFIRM AS-BUILTS FROM RECENT PROJECTS.

LEGEND

- WATER LINE
- GATE VALVE
- HYDRANT
- THRUST BLOCK
- TEE ASSEMBLY
- AREA TO POTHOLE PRE-CONSTRUCTION OF WATER MAIN
- WATER METER

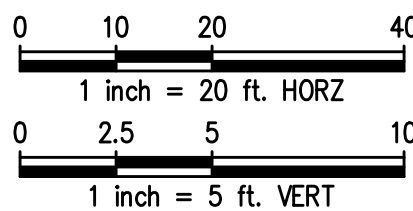
CONSTRUCTION NOTES

- WATER MAIN CONNECTION, SEE DETAIL 2, SHEET UD01
- GATE VALVE 8 IN. (MJ)
- RECONNECTING EXISTING FIRE HYDRANT/LINE SERVICE, SEE DETAIL 9, SHEET UD02
- REPLACE FRAME AND COVER PER COB STD PLAN 4010 AND 4012
- ADJUST WATER VALVE TO FINAL GRADE
- ADJUST MANHOLE TO FINAL GRADE
- ADJUST MONUMENT CASE AND COVER
- SERVICE CONNECTION 2 IN. DIAM., DOMESTIC, SEE COB STD PLAN 5003. SALVAGE METER, SEE SPC. PROV.
- SHORING OR EXTRA EXCAVATION CLASS B, PROVIDE SHORED TRENCH FOR ACCESS BY CITY STAFF, HOT TAP OF EXISTING MAIN TO BE PERFORMED BY CITY
- NOT USED
- ABANDON WATER MAIN SYSTEM, 8" CUT AND CAP, SEE DETAIL 7, SHEET UD02
- SERVICE CONNECTION 3/4 IN. DIAM., DOMESTIC, SEE COB STD PLAN 5001. SALVAGE METER, SEE SPC. PROV.
- PVC PIPE, SEE PLAN FOR DIAM.
- CATCH BASIN INLET, SEE COB STD. PLAN 4001

- WATER MAIN CONNECTION, SEE DETAIL 3, SHEET UD01
- WATER MAIN CONNECTION, SEE DETAIL 5, SHEET UD01
- HYDRANT ASSEMBLY, SEE COB STD PLAN 5081 AND 5084. CONSTRUCT THRUST BLOCK BEHIND TEE CONNECTION PER DETAIL 4, SHEET UD01.
- ADJUST CATCH BASIN TO FINAL GRADE
- REPLACE COVER WITH DECORATIVE STORM RING AND COVER PER COB STD PLAN 4022
- NOT IN USE
- UTILITY POLE REMOVED BY OTHERS. CONTRACTOR TO COORDINATE WITH PSE.



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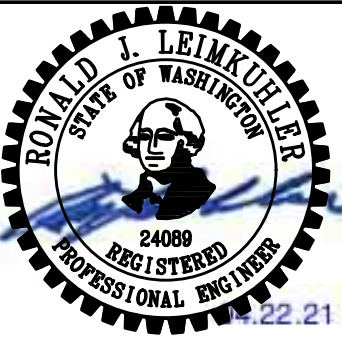


UT04

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

Apr 23, 2021 - 8:46am CAD FILE: micraolv Z:\900001-1900099\9000319 6th Street Preservation - Phase II\CADD\Design\6SP_UD_P12.dwg

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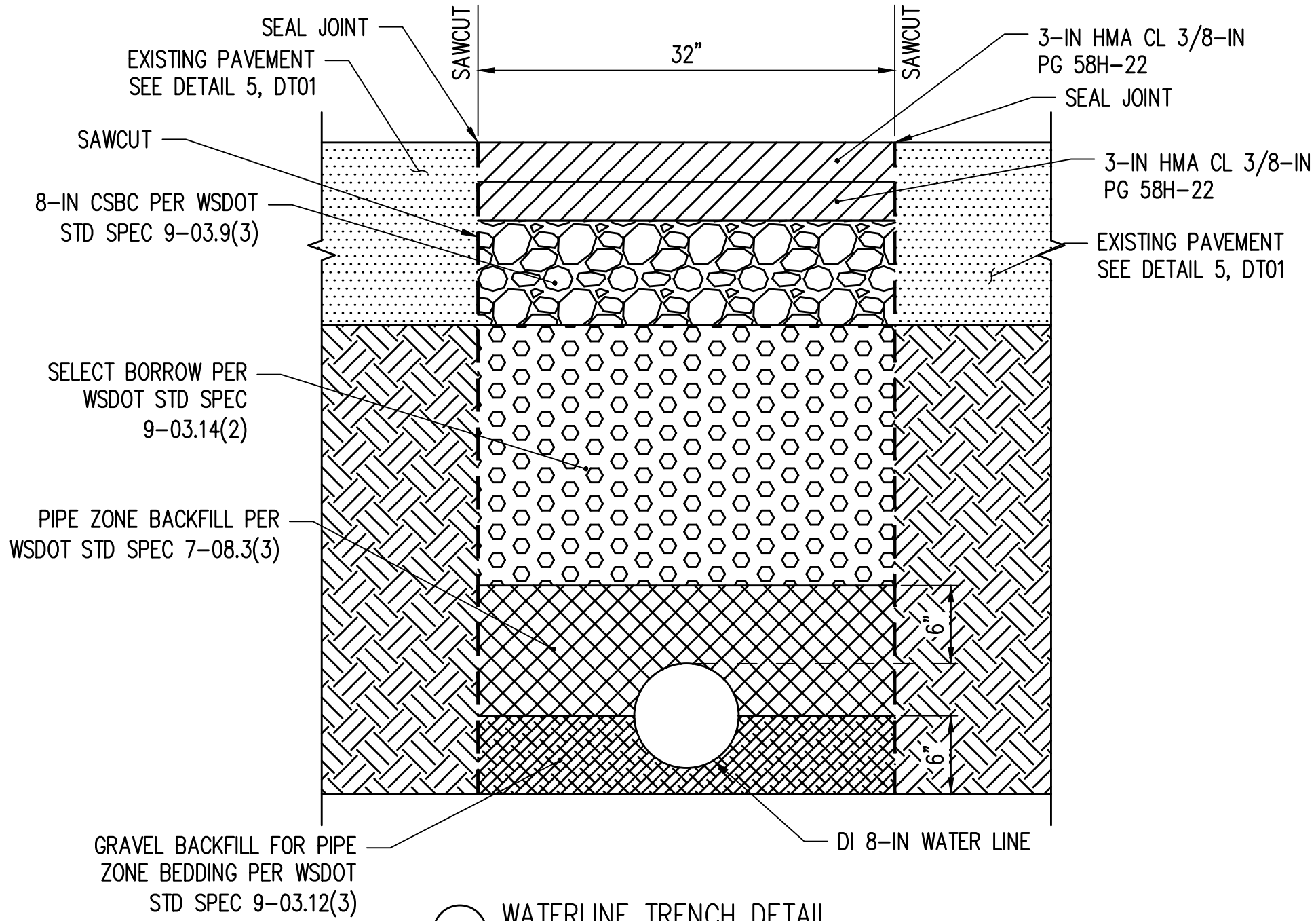
FIELD BOOK
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CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION		
DRAWN BY: M. VU DATE 04/2021	DESIGN BY: J. GOODMAN WASH. P.E. # 53732 DATE 04/2021	CHECKED BY: P. SLOAN WASH. P.E. # 37419 DATE 04/2021

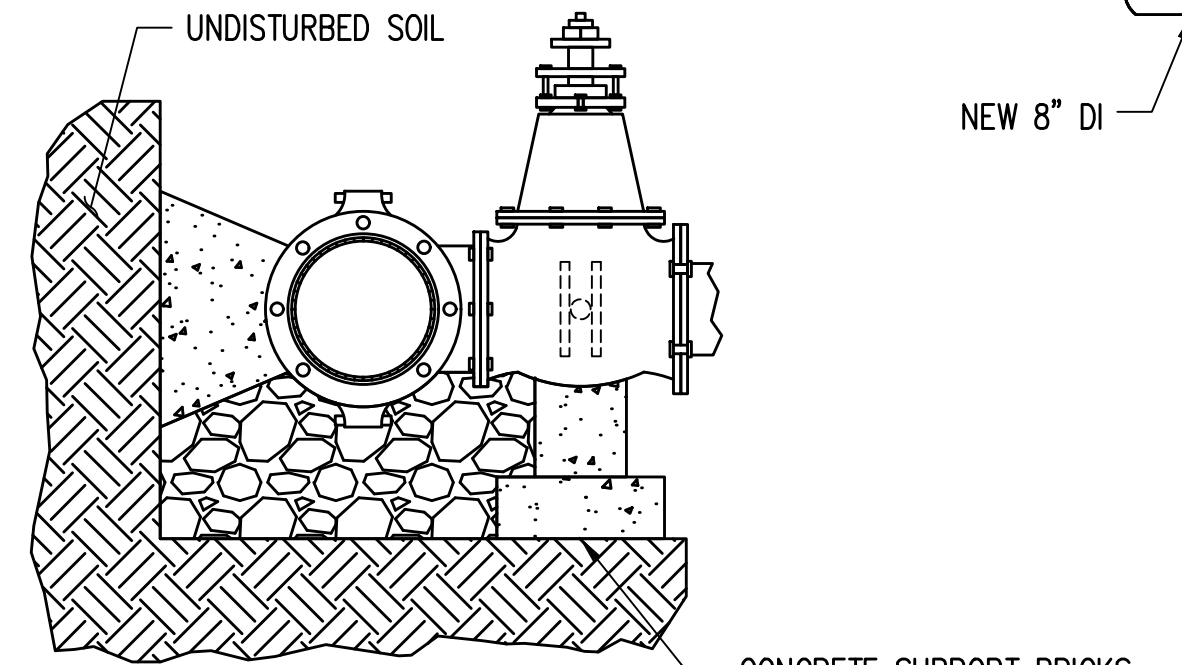
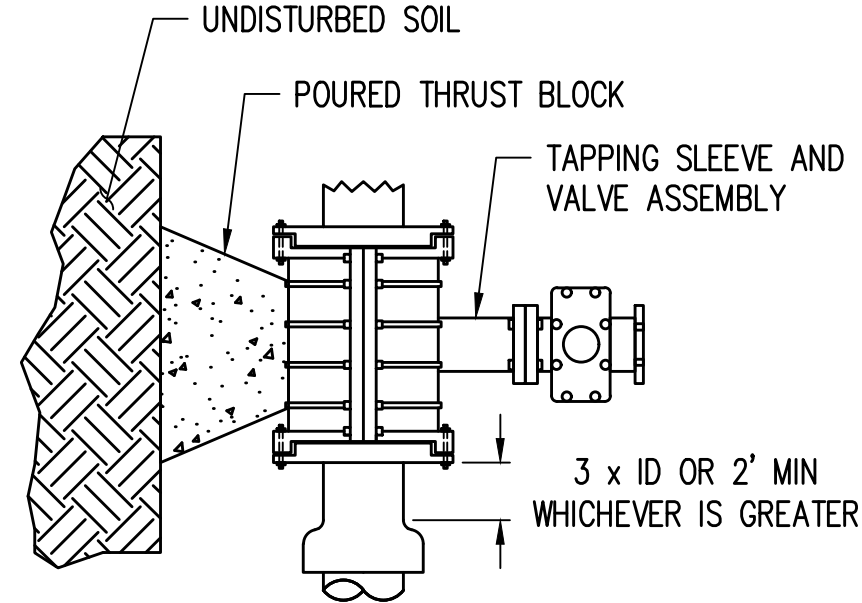
6TH STREET PRESERVATION PHASE II UTILITY DETAILS	
PN: 1900319	SHEET 22 OF 33



UD01



1 WATERLINE TRENCH DETAIL
SCALE: NTS

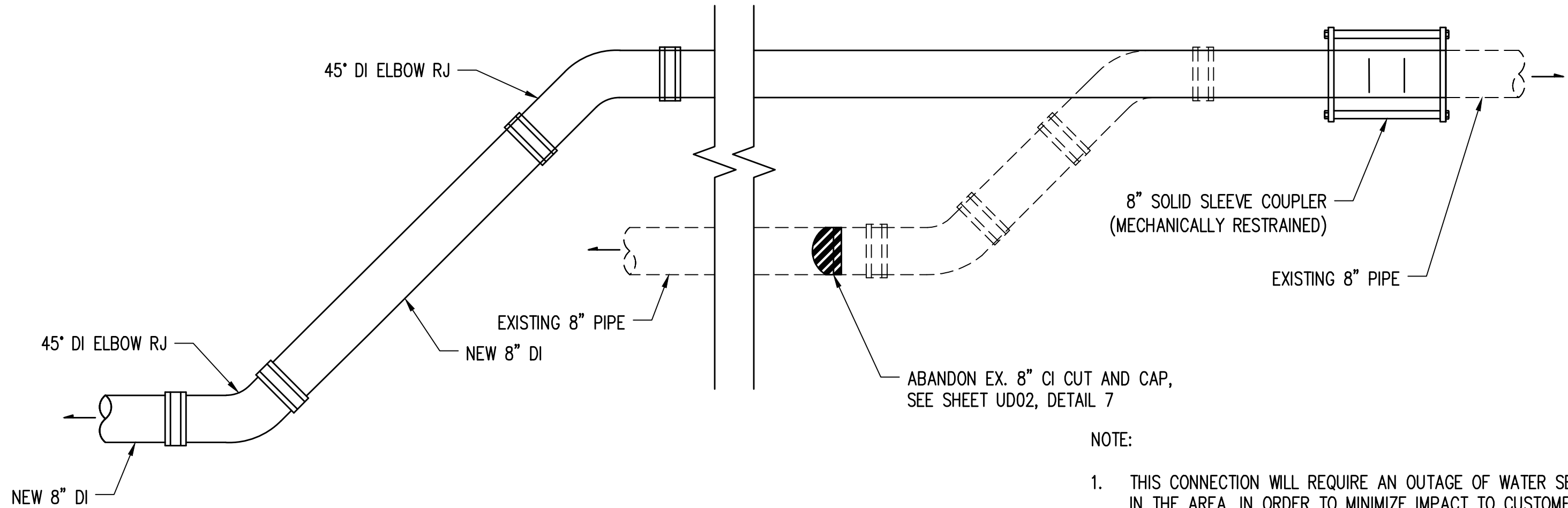


DUCTILE IRON TAPPING TEE
MECHANICAL JOINT SLEEVE
INSTALLED ON CAST IRON
PIPE AND DUCTILE IRON PIPE

NOTES:

1. WATER MAIN SHALL BE TESTED PRIOR TO TAPPING THE LIVE MAIN.
2. TAPPING TEE MAY NOT BE SIZE ON SIZE. TAP SHALL BE AT LEAST 2" SMALLER DIAMETER THAN THE EXISTING MAIN.
3. THE CITY SHALL PROVIDE AND INSTALL TAPPING TEE, TAPPING VALVE, TAPPING SLEEVE AND ANY APPURTANCES TO SUPPORT TAPPING OPERATION. CITY TO PROVIDE BRICKS TO SUPPORT VALVE. CITY TO PERFORM HOT TAP IN SHORED TRENCH PREPARED BY CONTRACTOR. FINAL CONNECTION TO NEW WATER MAIN SHALL BE MADE AFTER NEW MAIN HAS BEEN PRESSURE TESTED AND DISINFECTED.

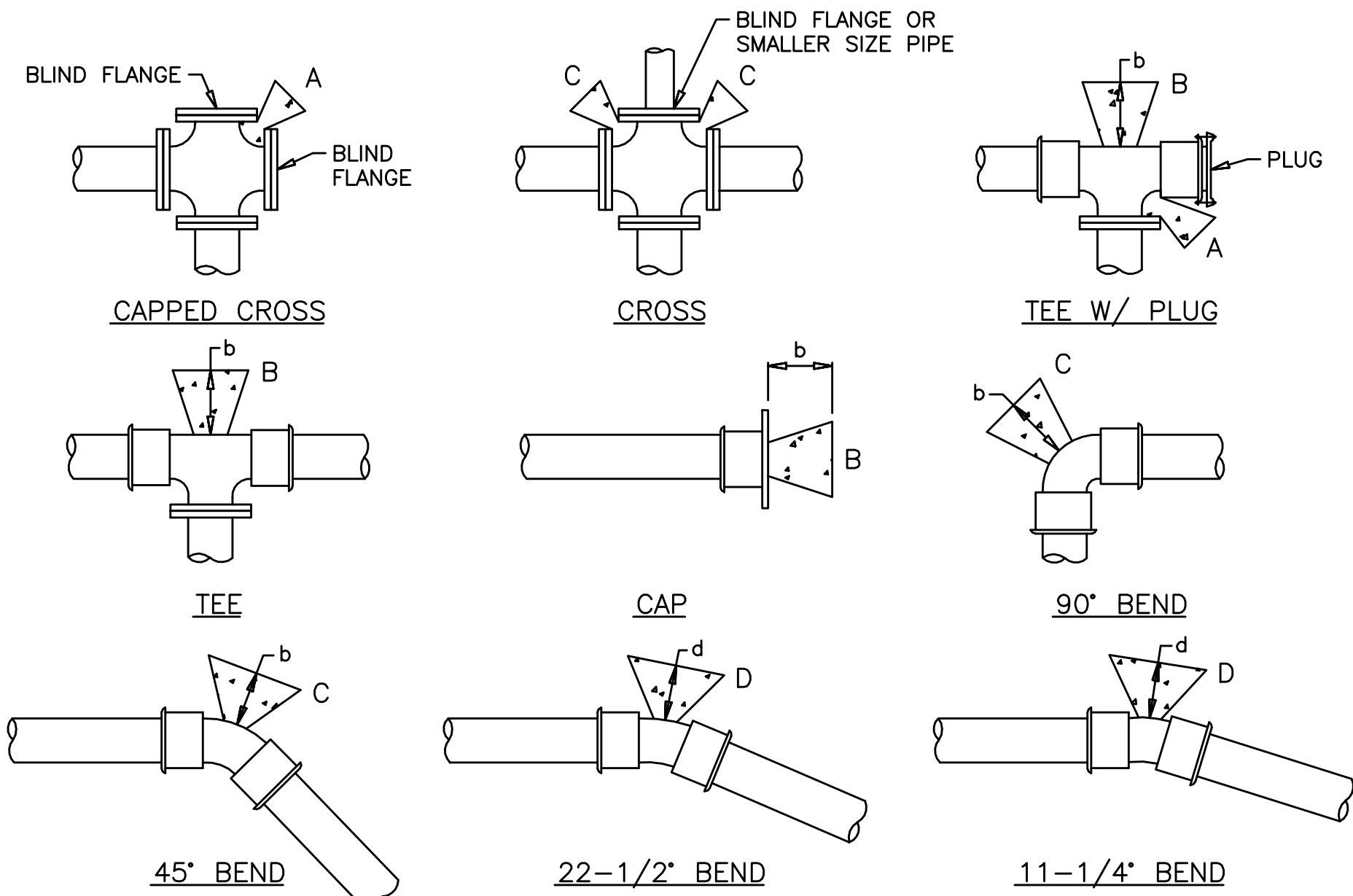
2 WEST WATER LINE CONNECTION
STA 150+47
SCALE: NTS



3 EAST WATER LINE CONNECTION PLAN VIEW
STA 163+50
SCALE: NTS

NOTE:

1. THIS CONNECTION WILL REQUIRE AN OUTAGE OF WATER SERVICE IN THE AREA. IN ORDER TO MINIMIZE IMPACT TO CUSTOMERS, THE OUTAGE SHALL NOT EXCEED SIX HOURS. COORDINATE OUTAGE WITH CITY STAFF. CITY STAFF TO PERFORM TAP.



NOTES:

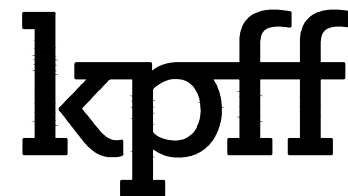
1. BEARING AREA OF CONCRETE THRUST BASED ON 200 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 2,000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZES, PRESSURES, AND SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
4. THRUST BLOCK SHALL BEAR AGAINST FITTINGS AND UNDISTURBED SOIL. FITTING SHALL BE WRAPPED IN POLYETHYLENE FILM BEFORE PLACING CONCRETE.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATIONAL PRESSURE UNDER ALL CONDITIONS OF SERVICE.
6. BLOCKING MAY BE REDUCED WITH USE OF RESTRAINED JOINTS ADJACENT TO FITTINGS.
7. CONCRETE SHALL NOT COVER FITTING BOLT AND NUTS.

4 THRUST BLOCK
SCALE: NTS

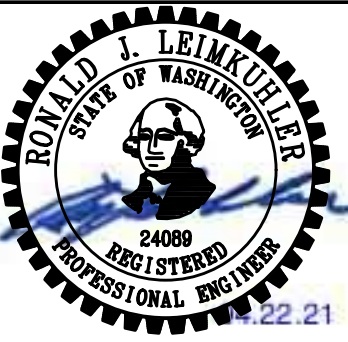
THRUST BLOCK TABLE MIN BEARING AREA AGAINST UNDISTURBED SOIL							
PIPE SIZE	SQUARE FEET					MIN DIST (IN FEET)	
	A	B	C	D	E	b	d
4"	3	1	1	1	1	1	0.5
6"	4	4	2	1	1	1	0.5
8"	7	6	4	2	1	1.3	0.7
10"	11	10	6	3	2	1.6	0.9
12"	16	14	9	5	3	1.9	1.1
16"	29	25	16	8	4	2.6	1.4

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

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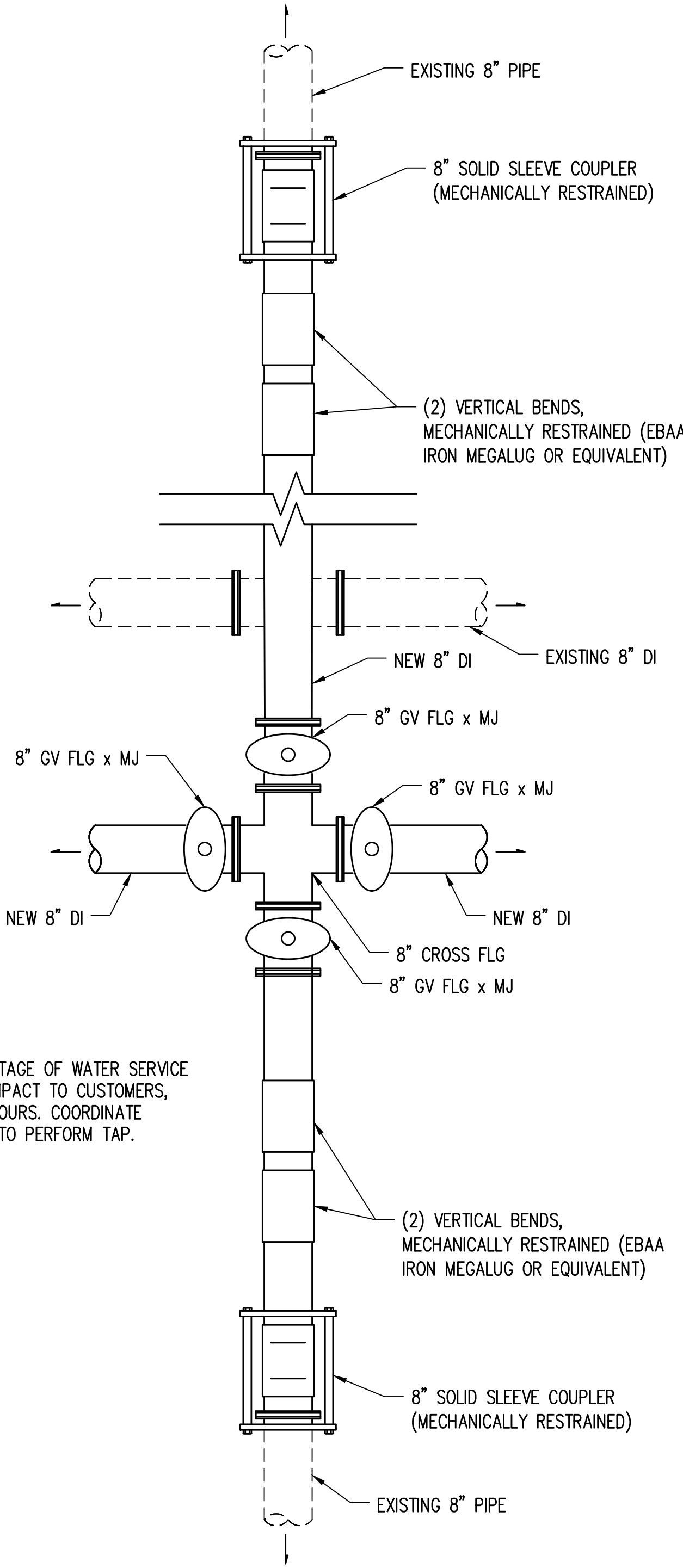
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NO.	DESCRIPTION	DATE	BY

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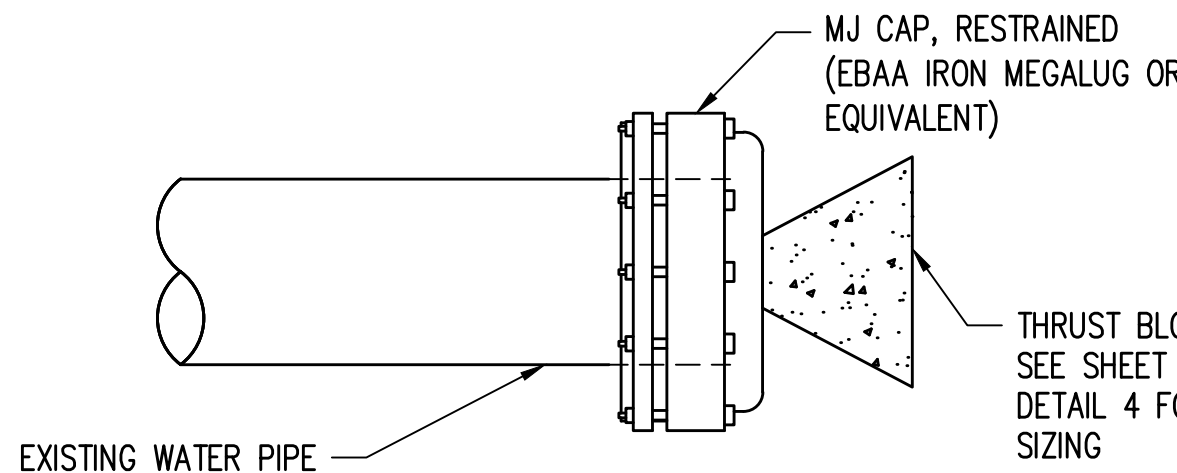
6TH STREET PRESERVATION
PHASE II
UTILITY DETAILS

PN: 1900319	SHEET
	23 OF 33

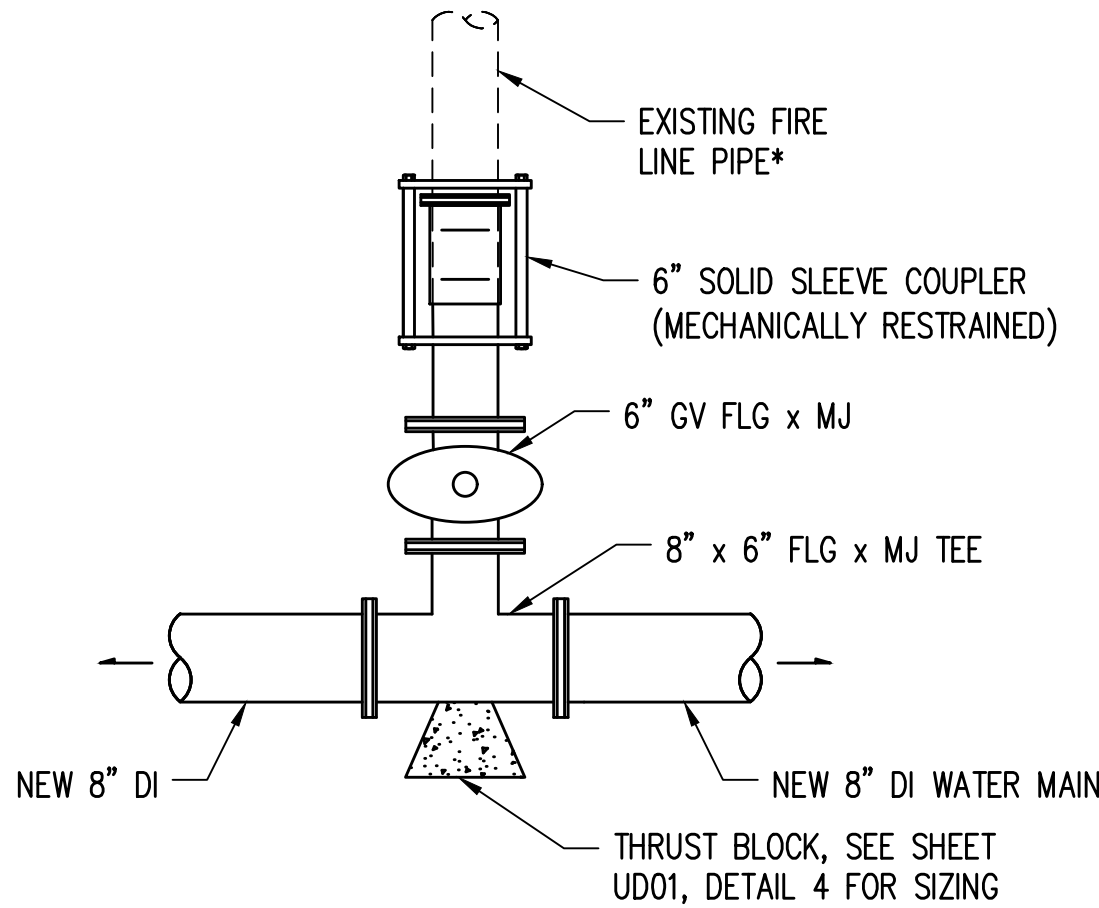


5 PARK AVENUE WATER LINE CONNECTION PLAN VIEW
STA 156+98
SCALE: NTS

- NOTE:
1. THIS CONNECTION WILL REQUIRE AN OUTAGE OF WATER SERVICE IN THE AREA. IN ORDER TO MINIMIZE IMPACT TO CUSTOMERS, THE OUTAGE SHALL NOT EXCEED SIX HOURS. COORDINATE OUTAGE WITH CITY STAFF. CITY STAFF TO PERFORM TAP.



7 ABANDON PIPE CUT AND CAP
SCALE: NTS



9 FIRE HYDRANT/FIRE LINE RECONNECT
SCALE: NTS

UTILITY NOTES:

1. THE CONTRACTOR SHALL INVESTIGATE FOR UNDERGROUND UTILITIES PRIOR TO ANY POLE FOUNDATION EXCAVATION OR CONDUIT TRENCHING TO AVOID DAMAGE TO ANY UNDERGROUND UTILITIES (INCLUDING SIDE SEWERS). CONTACT UTILITY LOCATION (CALL-BEFORE-YOU-DIG-811) PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE STATE OF WASHINGTON STANDARD PLANS AND SPECIFICATIONS, OR AS AMENDED BY THE CITY STANDARDS, EXCEPT AS MODIFIED BY CONTRACT PLANS AND PROVISIONS.
3. CITY WILL PERFORM ANY PLANNED ACTIVE MAIN LINE WATER AND SERVICE SHUT OFFS AND TURN ONS UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER. IN NO CASE SHALL AN ACTIVE WATER MAIN SHUT DOWN OR TURN ON BE PERFORMED WITHOUT A CITY REPRESENTATIVE PRESENT EXCEPT IN AN EMERGENCY.
4. IN AN EMERGENCY SHUT OFF, THE CONTRACTOR SHALL CONTACT THE CITY IMMEDIATELY.
5. CONTRACTOR TO NOTIFY ENGINEER AND RECEIVE APPROVAL 5 WORKING DAYS PRIOR TO ANY PLANNED WATER SHUT OFF INCLUDING MAIN LINE, WATER SERVICE, FIRE HYDRANT, OR FIRE LINE.
6. BEFORE PERFORMING ANY WATER LINE CONSTRUCTION, THE CONTRACTOR SHALL PERFORM POTHOLES OF THE EXISTING WATER LINE TO IDENTIFY LOCATION, DEPTH, AND MATERIAL TYPE. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND GET APPROVAL BEFORE PROCEEDING WITH POTHOLES.
7. THE EXISTING WATER MAIN TO BE ABANDONED SHALL STAY IN SERVICE UNTIL THE NEW WATER LINE HAS BEEN ACCEPTED BY THE ENGINEER.
8. DISCHARGED WATER FROM THE FLUSHING OF THE NEW WATERLINE SHALL BE DIRECTED INTO A SANITARY SEWER AND AN AIR GAP SEPARATION OF AT LEAST 6 FEET FROM THE DIRECT SEWAGE SHALL BE MAINTAINED.
9. ONCE THE NEW WATER MAIN HAS BEEN ACCEPTED BY THE ENGINEER, THE CONTRACTOR WILL PERFORM THE TRANSFER OF WATER SERVICES. THE CONTRACTOR WILL REPLACE BACK FILL MATERIAL THAT WAS PLACED DURING THE INSTALLATION OF THE NEW WATER MAIN LINE.
10. ANY NEW OPEN PAVEMENT CUTS PERFORMED BY THE CONTRACTOR SHALL BE BACKFILLED WITH IMPORT CRUSHED SURFACE BASE COURSE MATERIAL PROVIDED BY THE CONTRACTOR UNDER THE UNIT BID ITEM. THE CONTRACTOR WILL BE RESPONSIBLE TO PERFORM THE FINAL PREPARATION OF THE BASE COURSE AND THE PLACEMENT OF HMA UNDER THE UNIT BID ITEM.
11. AFTER THE CONTRACTOR'S COMPLETION OF THE WATER SERVICE CONNECTIONS, THE CONTRACTOR SHALL TRANSFER THE FIRE HYDRANT AND FIRE LINE TO THE NEW WATER MAIN. VALVES ON EXISTING FIRE HYDRANT/FIRE LINES SHALL BE REMOVED, AND NEW FIRE LINE SHALL BE RECONNECTED TO EXISTING FIRE LINE USING A COUPLER.
12. WHEN ALL SERVICES, FIRE HYDRANTS, FIRE LINES, AND OTHER CONNECTIONS HAVE BEEN ACCEPTED BY THE CITY, THE OLD NORTH WATER MAIN LINE WILL BE ABANDONED. CONTRACTOR SHALL CAP THE ENDS OF ALL MAIN SECTIONS THAT HAVE BEEN CUT PER DETAIL 7 ON SHEET UD02.
13. NEW VALVE BOXES SHALL BE ADJUSTED TO GRADE AFTER FINAL PAVEMENT OVERLAY HAS BEEN COMPLETED AND ACCEPTED BY THE ENGINEER.



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UD02

GENERAL NOTES:

1.

THE CONTRACTOR SHALL MAINTAIN EX. SIGNAL OPERATION DURING CONSTRUCTION AND CONVERT TO FOUR WAY STOP CONTROL WITHIN 14 DAYS OF THE PROCUREMENT OF NEW SIGNAL MAST ARM POLES.
2.

TRAFFIC SIGNAL HEADS SHALL HAVE TUNNEL VISORS, BACK PLATES WITH 2" YELLOW REFLECTIVE BORDER. PEDESTRIAN SIGNAL HEADS SHALL USE CLAMSHELL MOUNTS. ALL MOUNTS SHALL BE MANUFACTURED AND INSTALLED PER CITY OF BREMERTON STANDARD DETAILS AND SPECIFICATIONS.
3.

ALL THE JUNCTION BOXES SHALL HAVE NON-SKID LID AND BE FLUSH WITH SIDEWALK.
4.

JUNCTION BOXES SHALL MEET THE REQUIREMENTS OF SECTION 9-29.2 OF WSDOT/APWA STANDARD SPECIFICATIONS, AND AMENDMENTS.
5.

ALL TRAFFIC SIGNAL AND STREETLIGHT CONDUCTORS AND CABLES SHALL MEET THE REQUIREMENTS OF SECTION 9-29.3 OF WSDOT/APWA STANDARD SPECIFICATIONS, AND AMENDMENTS.
6.

ANY CONFLICTS WITH THE SIGNAL SYSTEM AND CONSTRUCTION SEQUENCE MUST BE COORDINATED WITH THE ENGINEER AS SOON AS KNOWN. A MINIMUM FIVE WORKING-DAY NOTICE IS REQUIRED FOR ANY WORK REQUESTED OF THE CONTRACTING AGENCY.
7.

ANY SIGNAL ITEMS, INCLUDING BUT NOT LIMITED TO SIGNAL HEADS, POLE FOUNDATIONS, PEDESTALS, SIGNAL CABINET, SIGNAL CABINET WRAP, CONDUITS, JUNCTION BOXES, AND ASSOCIATED CABLES THAT ARE DAMAGED OR DESTROYED DURING THE CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8.

ANY EXCAVATION IN PROXIMITY TO AN EX. POLE OR DOWN GUY MUST BE DONE WITHOUT UNDERMINING THEIR STABILITY. INSPECTION IS REQUIRED PRIOR TO ANY EXCAVATION.
9.

ALL POLE INSTALLATIONS SHALL BE INSPECTED AT SEVERAL STAGES; INCLUDING BUT NOT LIMITED TO FOUNDATION EXCAVATION, BOLT, REBAR AND CONDUIT INSTALLATIONS, POLE SET FOR PROPER RAKE, LUMINAIRE INSTALLATIONS, WIRING, GROUNDING AND BONDING.
10.

PRIOR TO CURB INSTALLATION, SIDEWALK INSTALLATION, STREET PAVING, OR TREE INSTALLATION ALL CONDUITS, MUST BE INSPECTED FOR CONTINUITY. PULL STRINGS SHALL BE PRESENT IN ALL NEW CONDUITS. ALL CONDUITS THAT ARE ABANDONED SHALL BE LABELED SUCH IN EACH ACCESS THEY PASS THROUGH.
11.

ANY SIGNAL ITEMS WHICH ARE DISTURBED AS A RESULT OF GRADE CHANGE ARE REQUIRED TO BE REGRADED OR REPLACED AT THE CONTRACTOR'S EXPENSE. ALL WORK NECESSARY TO ADJUST, RELOCATE, REPAIR OR CONSTRUCT ANY PART OF THE SIGNAL UTILITY SHALL BE AT THE CONTRACTOR'S EXPENSE.
12.

ACCESS TO CONTROLLER CABINETS AND ASSOCIATED SIGNAL EQUIPMENT MUST BE AVAILABLE AT ALL TIMES. SPACE MUST BE PROVIDED FOR DOOR SWING. NO FENCES, EQUIPMENT OR MATERIAL STORAGE SHALL BLOCK ACCESS TO SIGNAL EQUIPMENT. ANY COSTS AND/OR TIME LOSS INCURRED BY THE CONTRACTING AGENCY IN GAINING ACCESS TO BLOCKED SIGNAL EQUIPMENT WILL BE AT THE CONTRACTOR'S EXPENSE.
13.

PRIOR TO BACKFILLING, ALL CONDUITS, EX. AND NEWLY INSTALLED, MUST BE INSPECTED BY THE ENGINEER. THE CONTRACTOR SHALL PULL A PROPERLY SIZED MANDREL THROUGH ALL NEW CONDUITS IN THE PRESENCE OF THE ENGINEER. EXISTING CONDUITS TO BE INCORPORATED INTO A NEW INSTALLATION SHALL BE CLEANED WITH A PROPERLY SIZED CYLINDRICAL WIRE BRUSH AND BLOWN OUT WITH COMPRESSED AIR IN THE PRESENCE OF THE ENGINEER. PULL STRINGS SHALL BE INSTALLED IN ALL NEW CONDUITS. ALL CONDUITS THAT ARE ABANDONED SHALL BE REMOVED IN EACH ACCESS THEY PASS THROUGH. VACANT CONDUITS SHALL BE CAPPED AT EACH TERMINATION POINT.
14.

CONDUITS SHALL BE SCHEDULE 80 PVC AND SHALL HAVE 24" OF COVER UNDER SIDEWALKS.
15.

CONDUIT ENTERING JUNCTION BOX FROM THE BOTTOM SHALL BE PLACED NEAR THE END WALL OF THE JUNCTION BOX LEAVING THE MAJOR PORTION OF THE JUNCTION BOX OPEN. THE CONDUIT SHALL TERMINATE 4" ABOVE THE BOTTOM OF THE JUNCTION BOX. ALL CONDUITS SHALL HAVE BUSHINGS.

16.

ALL JUNCTION BOXES MUST BE BEDDED ON A MINIMUM OF 6" OF CRUSHED SURFACING PER WSDOT STANDARD SPECIFICATION 9-03.9(3).
17.

UNLESS AN APPROVED TRAFFIC CONTROL PERMIT ALLOWS THE CLOSURE OF A CROSSWALK, ALL LANDINGS ARE TO REMAIN CLEAR AND PEDESTRIAN PUSH BUTTONS MUST REMAIN EASILY ACCESSIBLE TO THE PUBLIC AT ALL TIMES. IF THE TCP ALLOWS A CROSSWALK CLOSURE, THE CLOSURE MUST BE DONE PER CITY OF BREMERTON STANDARDS AND PEDESTRIAN SIGNALS AND PUSH BUTTONS SHALL BE COVERED.
18.

AT SIGNALIZED INTERSECTION CROSSWALK AND STOP BAR SHALL BE MARKED PRIOR TO SIGNAL TURN ON.
19.

WORK SHALL BE SCHEDULED SUCH THAT NO TWO ADJACENT OR OPPOSITE STREETLIGHTS ARE DE-ENERGIZED AT ANY ONE TIME UNLESS TEMPORARY LIGHTING IS USED.
20.

THE ELECTRIC SERVICE SHALL BE OBTAINED FROM PUGET SOUND ENERGY (PSE) BY THE CONTRACTOR UPON THE CONTRACTOR'S REQUEST AND FULL EXPENSE PER THE CITY OF BREMERTON CONSTRUCTION STANDARDS DIVISION 7-20.5.
21.

ALL METAL APPURTENANCES THAT CONTAIN ELECTRICAL CONDUCTORS SHALL BE PROPERLY BONDED AND THE BONDING SYSTEM MUST COMPLY WITH THE NEC. BONDING CONNECTIONS MUST BE INSPECTED BY THE ENGINEER. CHECK WITH PSE ELECTRICAL SERVICE REP REGARDING THE SIGNAL SERVICE POINT EARLY IN CONSTRUCTION STAGE.
22.

ALL SIGNAL RELATED MATERIALS SHALL GO THROUGH THE SUBMITTAL PROCESS OUTLINED IN THE STANDARD SPECIFICATIONS AND BE APPROVED BY THE ENGINEER. IF SUBMITTAL OF A PHYSICAL SAMPLE IS REQUIRED, THE SAMPLE WILL BE DELIVERED TO THE SIGNAL SHOP. CLEARLY LABEL THE SAMPLE WITH THE PROJECT NAME AND THE COMPANY AND CONTACT PHONE NUMBER. CALL THE ENGINEER ONE BUSINESS DAY AHEAD TO ARRANGE FOR DELIVERY.
23.

TRAFFIC SIGNAL CABLES SHALL NOT BE SPLICED.
24.

THE LOCATIONS FOR ALL CONDUITS, JUNCTION BOXES AND CABINETS SHOW ON THE PLAN ARE FOR GRAPHICAL PRESENTATION ONLY. FINAL LOCATION SHALL BE WITHIN RIGHT OF WAY, LOCATED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
25.

ALL CONDUCTORS FOR SIGNAL HEADS, PEDESTRIAN HEADS, PUSH BUTTONS, STREET LIGHTINGS, INTERCONNECTIONS AND SIGNAL SERVICE SHALL BE LABELED IN EACH JUNCTION BOX.
26.

ALL PEDESTRIAN PUSH BUTTON ASSEMBLIES SHALL BE ACCESSIBLE PEDESTRIAN PUSH BUTTONS, AND SEE DRAWING SG01B FOR ORIENTATION OF PUSH BUTTONS.
27.

NO APPURTENANCES WILL BE ALLOWED IN RAMPS OR LANDINGS.
28.

EACH END OF CONDUIT RUNS SHALL HAVE MATCHING UNIQUE NUMBERED BRASS OR STAINLESS STEEL TAGS ATTACHED WITH STAINLESS STEEL WIRE OR STAINLESS STEEL TIE-WRAP. MINIMUM SIZE OF THE TAG SHALL BE 2.5" LONG BY 1" WIDE, 0.025" THICK WITH ROUNDED EDGES.

LEGEND

- WAVETRONIX SENSOR
- WAVETRONIX DETECTION ZONE, FIELD SET UP
- TYPE III SIGNAL STANDARD
- TYPE II SIGNAL STANDARD
- TYPE PS SIGNAL STANDARD
- TYPE PPB SIGNAL STANDARD
- SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- PREEMPTION DETECOR
- SIGN
- TYPE 2 JUNCTION BOX
- TYPE 8 JUNCTION BOX
- SERVICE CABINET
- SIGNAL CABINET

SGN01

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01"2"

TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE

HORIZ. NTSVERT. N/A

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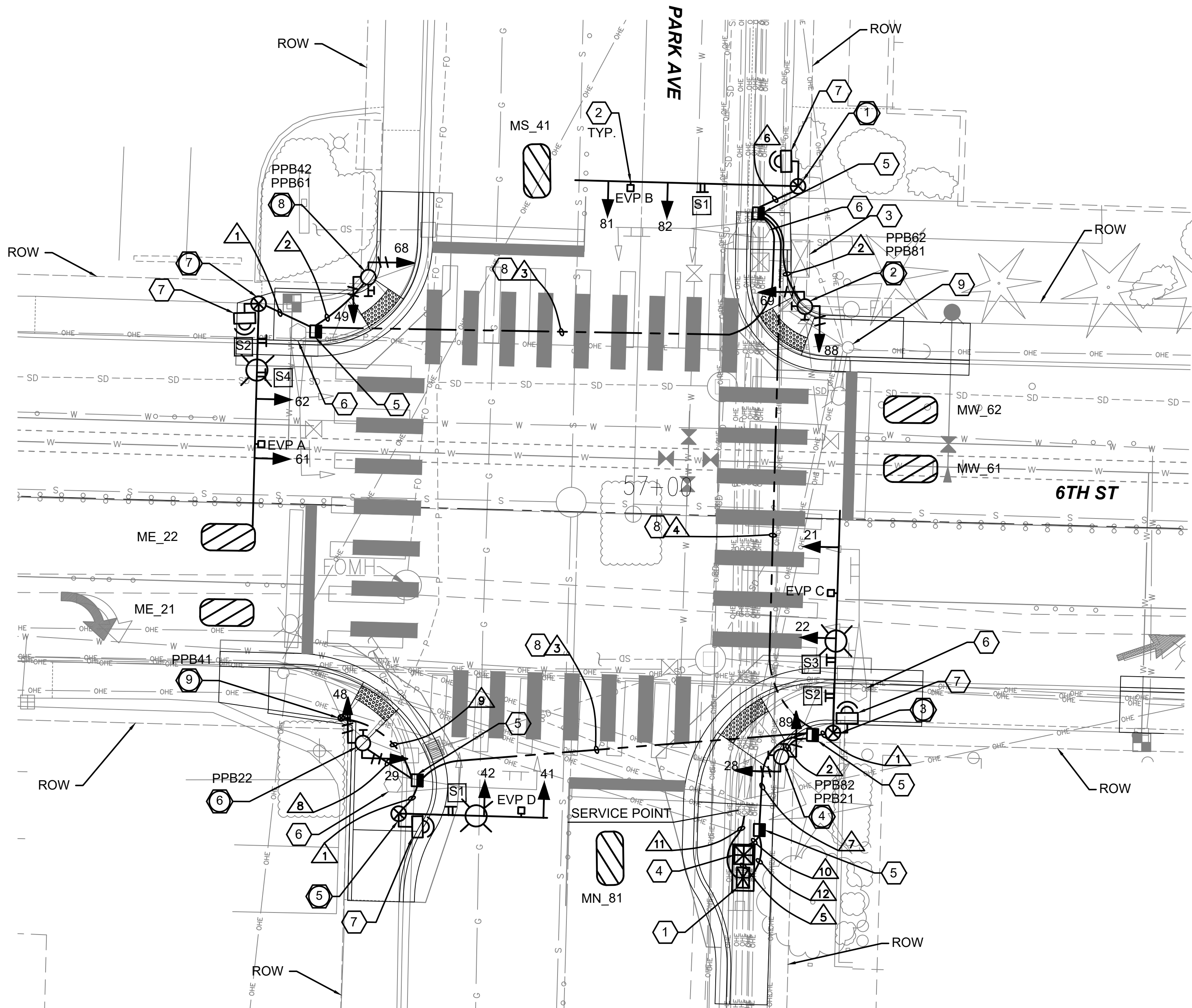
CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION		
DRAWN BY: Y. WANG DATE 04/21/21	DESIGN BY: S. RAHMAN WASH. P.E. # 52682 DATE 04/21/21	CHECKED BY: J. WHEELER WASH. P.E. # 53256 DATE 04/21/21

COMPLETE STREET IMPROVEMENT PROJECT
6TH STREET PHASE II
TRAFFIC SIGNAL GENERAL NOTES

PN: 1900293	SHEET 24 OF 33
-------------	-------------------------

CAD FILE:

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

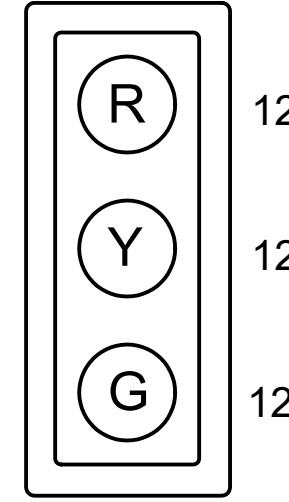


EXISTING AND PROPOSED PHASE DIAGRAM:

Ø1	Ø2	Ø3	Ø4
NOT USED	→ →	NOT USED	↑ ↓
Ø5	Ø6	Ø7	Ø8
NOT USED	→ →	NOT USED	↑ ↓

VEHICLE →
PEDESTRIAN →

LED SIGNAL DISPLAYS:



VEHICLE HEAD NO.
21, 22, 41, 42, 61,
62, 81, 82



PEDESTRIAN HEAD NO.
28, 29, 48, 49,
68, 69, 88, 89

PRE-EMPT SCHEDULE

A	PHASE 6
B	PHASE 8
C	PHASE 2
D	PHASE 4

SIGNS:



S1
ILLUMINATED
WHITE ON BLUE

(SEE SPECIAL PROVISION 9-29.23 AND
DRAWING SG01A FOR SIGN DETAILS)

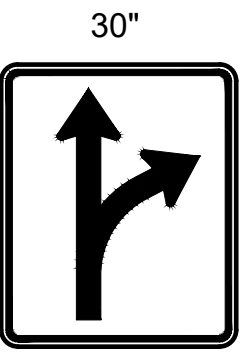


S2
ILLUMINATED
WHITE ON BLUE



R3-5R

S3



R3-6R

S4

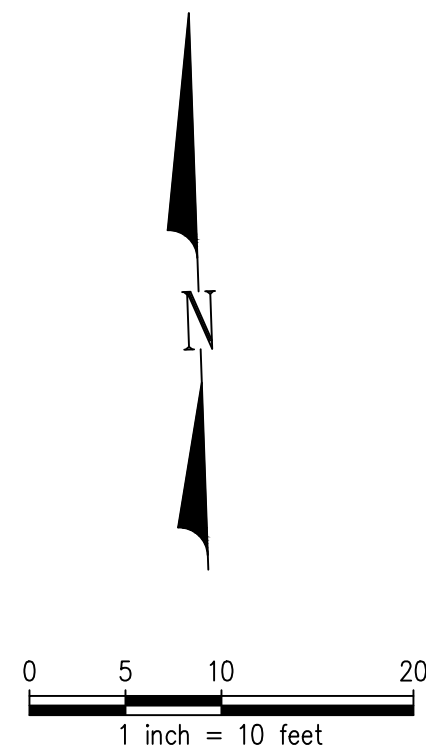
POLE NOTES:

- 1 CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-26.10-03. FURNISH AND INSTALL TYPE II SIGNAL POLE WITH 30 FT MAST ARM AND RECESSED TERMINAL COMPARTMENT PER CITY OF BREMEROTN STD DRAWING 8006. FURNISH AND INSTALL TWO VEHICLE SIGNAL HEADS, AND ONE ILLUMINATED STREET NAME SIGN ON MAST ARM INCLUDING MOUNTINGS. SEE DRAWING SG01B FOR POLE LOCATION AND ADDITIONAL DETAILS.
- 2 CONSTRUCT CURB BASE FOUNDATION PER WSDOT STD PLAN J-20.11-03. FURNISH AND INSTALL TYPE PS POLE, TWO PEDESTRIAN SIGNAL HEADS AND TWO PEDESTRIAN PUSH BUTTON ASSEMBLIES. SEE DRAWING SG01B FOR POLE LOCATION AND ADDITIONAL DETAILS.
- 3 CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-26.10-03. FURNISH AND INSTALL TYPE III SIGNAL POLE WITH 30 FT MAST ARM AND RECESSED TERMINAL COMPARTMENT PER CITY OF BREMEROTN STD DRAWING 8006. FURNISH AND INSTALL 10 FT BRACKET ARM, LED STREET LIGHT LUMINAIRE WITH 35 FT MOUNTING HEIGHT, TWO VEHICLE SIGNAL HEADS, SIGN S3 AND ONE ILLUMINATED STREET NAME SIGN ON MAST ARM INCLUDING MOUNTINGS. SEE DRAWING SG01B FOR LUMINAIRE PRODUCT NUMBER, POLE LOCATION AND ADDITIONAL DETAILS.
- 4 CONSTRUCT CURB BASE FOUNDATION PER WSDOT STD PLAN J-20.11-03. FURNISH AND INSTALL TYPE PS POLE, TWO PEDESTRIAN SIGNAL HEADS AND TWO PEDESTRIAN PUSH BUTTON ASSEMBLIES. SEE DRAWING SG01B FOR POLE LOCATION AND ADDITIONAL DETAILS.
- 5 CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-26.10-03. FURNISH AND INSTALL TYPE III SIGNAL POLE WITH 20 FT MAST ARM AND RECESSED TERMINAL COMPARTMENT PER CITY OF BREMEROTN STD DRAWING 8006. FURNISH AND INSTALL 10 FT BRACKET ARM, LED STREET LIGHT LUMINAIRE WITH 35 FT MOUNTING HEIGHT, TWO VEHICLE SIGNAL HEADS, AND ONE ILLUMINATED STREET NAME SIGN ON MAST ARM INCLUDING MOUNTINGS. SEE DRAWING SG01B FOR LUMINAIRE PRODUCT NUMBER, POLE LOCATION AND ADDITIONAL DETAILS.
- 6 CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-21.10-04. FURNISH AND INSTALL TYPE PS POLE, TWO PEDESTRIAN SIGNAL HEADS AND ONE PEDESTRIAN PUSH BUTTON ASSEMBLY. SEE DRAWING SG01B FOR POLE LOCATION AND ADDITIONAL DETAILS.
- 7 CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-26.10-03. FURNISH AND INSTALL TYPE III SIGNAL POLE WITH 30 FT MAST ARM AND RECESSED TERMINAL COMPARTMENT PER CITY OF BREMEROTN STD DRAWING 8006. FURNISH AND INSTALL 10 FT BRACKET ARM, LED STREET LIGHT LUMINAIRE WITH 35 FT MOUNTING HEIGHT, TWO VEHICLE SIGNAL HEADS, SIGN S4 AND ONE ILLUMINATED STREET NAME SIGN ON MAST ARM INCLUDING MOUNTINGS. SEE DRAWING SG01B FOR LUMINAIRE PRODUCT NUMBER, POLE LOCATION AND ADDITIONAL DETAILS.
- 8 CONSTRUCT FOUNDATION PER WSDOT STD PLAN J-21.10-04. FURNISH AND INSTALL TYPE PS POLE, TWO PEDESTRIAN SIGNAL HEADS AND TWO PEDESTRIAN PUSH BUTTON ASSEMBLIES WITH EXTENSION ARM AND ADAPTER ASSEMBLY SHOWN IN LAYOUT. SEE DRAWING SG01B FOR POLE LOCATION AND ADDITIONAL DETAILS.
- 9 CONSTRUCT TYPE ACCESSIBLE PUSHBUTTON POST FOUNDATION PER WSDOT STD PLAN J-20.10-04. FURNISH AND INSTALL TYPE ACCESSIBLE PUSHBUTTON POST, AND ONE PEDESTRIAN PUSH BUTTON ASSEMBLY. SEE DRAWING SG01B FOR POLE LOCATION AND ADDITIONAL DETAILS.

CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL SERVICE METER CABINET (200AMP, 120V/240V, ONE PHASE PER CITY OF BREMEROTN STANDARD DRAWING 7016). COORDINATE WITH PSE FOR THE SERVICE CONNECTION. CITY OF BREMEROTN DOOR OF SERVICE CABINET SHALL BE FACING EAST AND OPEN ON THE SOUTH SIDE HINGE. SEE SIGNAL AND SERVICE CABINET FOUNDATION DETAIL ON DRAWING SG01A.
- 2 FURNISH AND INSTALL ONE MODE 721 OPTICOM EMERGENCY VEHICLE DETECTOR WITH ONE PREEMPTION INDICATOR LIGHT. SEE PREEMPTION DETECTOR DETAILS ON DRAWING SG01A.
- 3 REMOVE EXISTING SIGNAL CABINET, ATTACHED SERVICE BOX, AND FOUNDATION. COORDINATE WITH PSE TO REMOVE EXISTING SERVICE. AT NO TIME CONTRACTOR SHALL PROCEED BEYOND THE TCE LIMITS DURING COURSE OF THE WORK. CONTRACTOR TO COORDINATE WITH THE ENGINEER FOR A LIST OF ITEMS THE CITY MAY WANT TO SALVAGE FROM THE CABINET PRIOR TO REMOVAL.
- 4 FURNISH AND INSTALL NEMA TYPE "XP" TRAFFIC SIGNAL CABINET WITH ECONOLITE COBALT CONTROLLER ON A JOINT FOUNDATION. CABINET DOOR SHALL FACE EAST. INSTALL "CLICK!" COMPONENT (CLICK! 650) TO PROVIDE LOOP EMULATION CONTACT CLOSURE AND CONNECT OUTPUT FROM "CLICK!" TO INPUT FILE IN THE SIGNAL CABINET IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SEE SIGNAL AND SERVICE CABINET FOUNDATION DETAIL ON DRAWING SG01A.

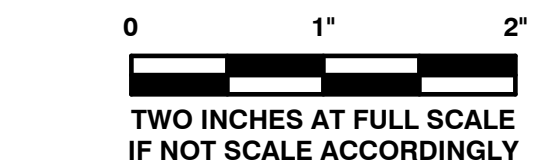
- 5 FURNISH AND INSTALL TYPE 8 JUNCTION BOX.
- 6 REMOVE EXISTING SIGNAL MAST ARM POLE AND FOUNDATION, DETECTION CAMERA, TWO VEHICLE SIGNAL HEADS, STREET NAME SIGN, AND ASSOCIATED WIRING. CONTRACTOR TO COORDINATE WITH THE ENGINEER FOR A LIST OF ITEMS THE CITY MAY WANT TO SALVAGE FROM THE POLE.
- 7 FURNISH AND INSTALL ONE WAVETRONIX MATRIX STOP BAR SMART SENSOR ON POLE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS (WAVETRONIX, LLC) AND DETAIL A ON DRAWING SG01D. CONNECT THE DEVICE TO THE ASSOCIATED EQUIPMENT INSIDE THE EXISTING TRAFFIC SIGNAL CABINET USING APPROVED WAVETRONIX MATRIX TYPE 2 HOME RUN CABLE. THE SENSOR LOCATION WILL BE DETERMINED BY MANUFACTURER REPRESENTATIVE AND FIELD ENGINEER.
- 8 TRENCH FOR CONDUIT INSTALLATION. PAVEMENT REPAIR FOR THE SIGNAL CONDUIT INSTALLATION IS INCIDENTAL TO THE TRAFFIC SIGNAL SYSTEM LUMP SUM.
- 9 POLE AND POLE ATTACHMENTS TO BE REMOVED BY PSE. COORDINATE WITH PSE FOR THE REMOVAL WORK.



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SCALE
HORIZ. 1" = 10' VERT. N/A

FIELD BOOK

DRAWING NO.

CITY OF BREMEROTN
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DRAWN BY: Y. WANG
DATE 04/21/21

DESIGN BY: S. RAHMAN
WASH. P.E. # 52682 DATE 04/21/21

CHECKED BY: J. WHEELER
WASH. P.E. # 53256 DATE 04/21/21

COMPLETE STREET IMPROVEMENT PROJECT
6TH STREET PHASE II
SIGNAL PLAN

PNL 1900293

SHEET
25
OF
33

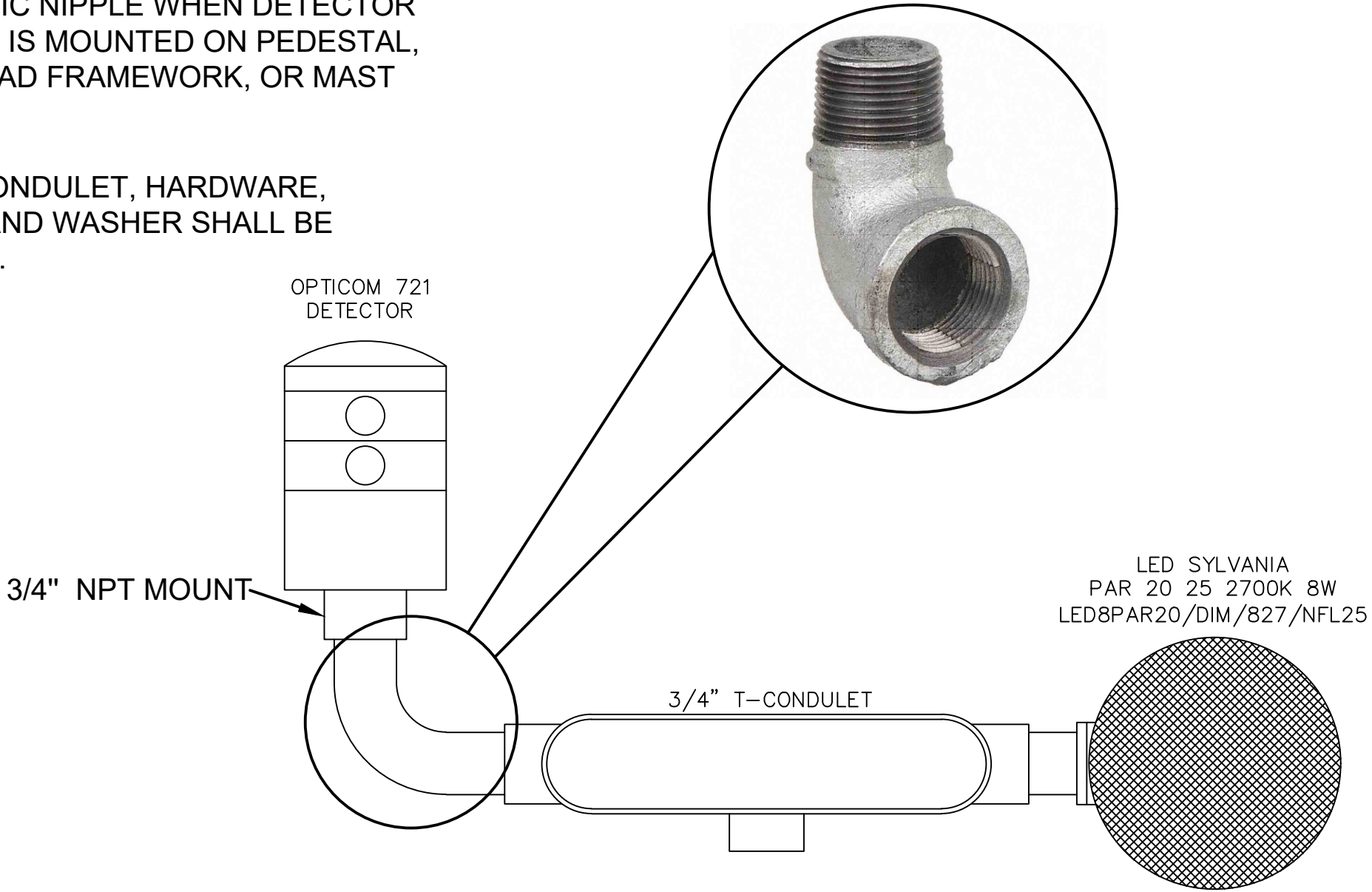
SG01

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

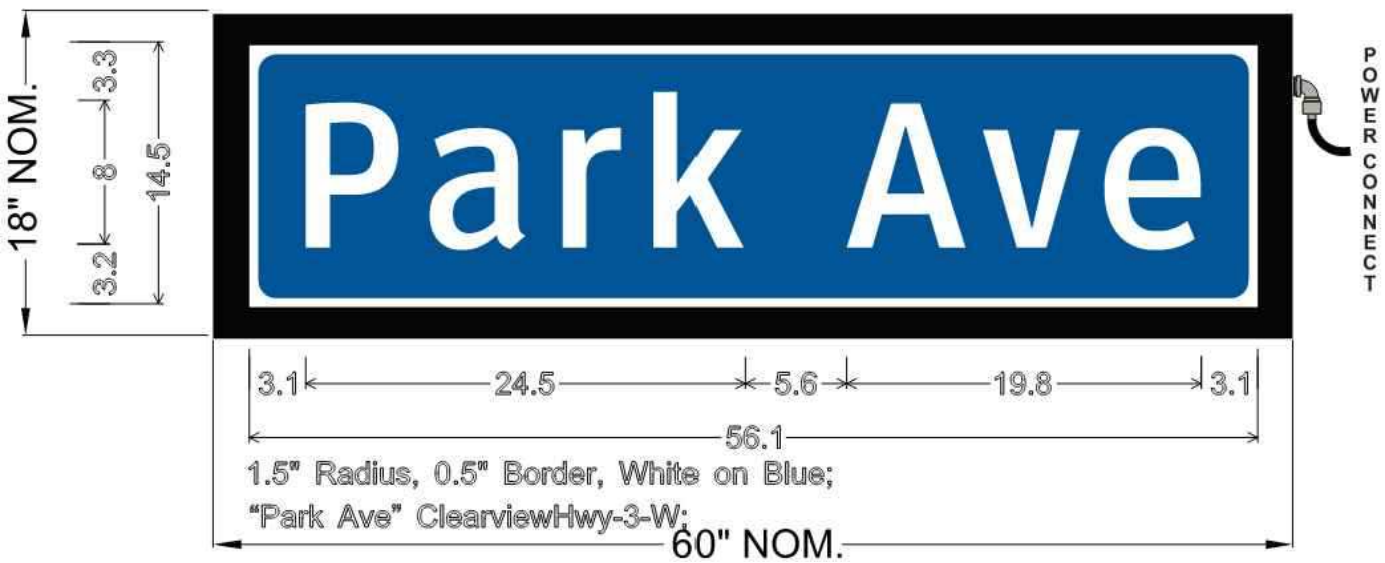
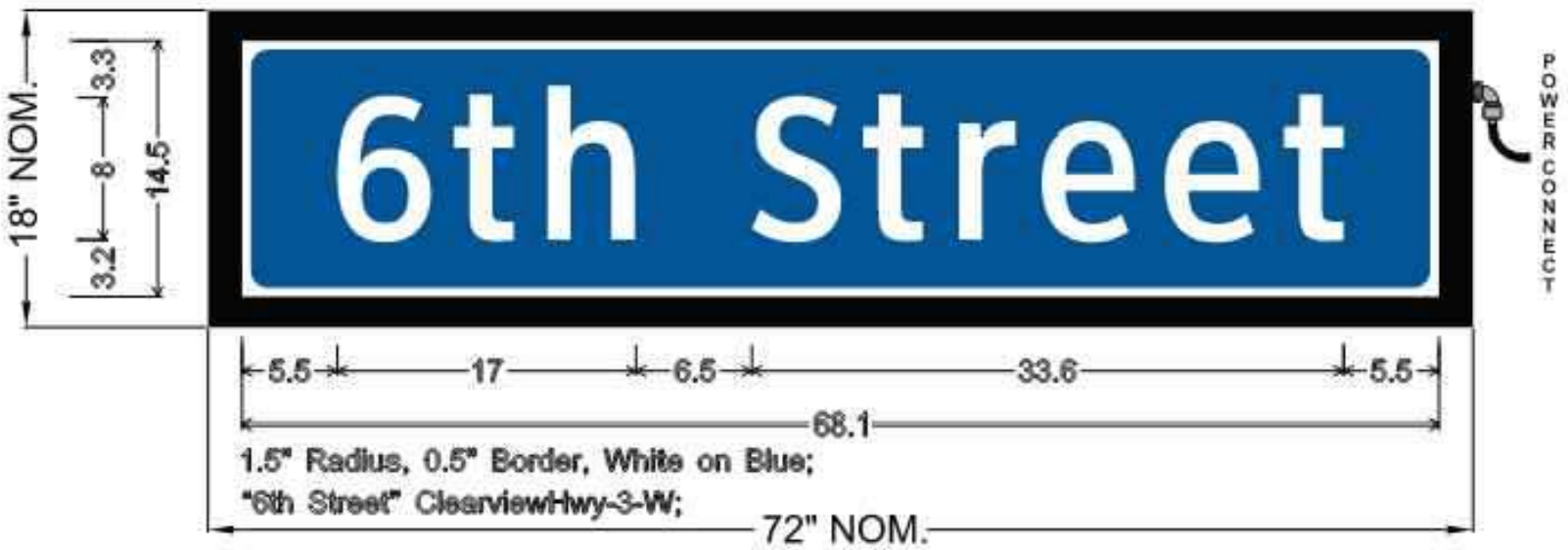
WIRING SCHEDULE												
RUN NO. ⚠	SPAN OR CONDUIT SIZE	VEHICLE HEADS	PED HEADS / PPB 18 AWG CONDUCTORS	PRE-EMPT M138	PRE-EMPT 2C	ILLUMINATED SIGN 2C	WAVETRONIX HOME RUN CABLE	ILLUMINATION	SIGNAL SERVICE	GROUND #8	PULL TAPE	REMARKS
1	3" SCH 80 PVC	1-5C		1	1	1	1	2-#6		1	1	SPARE
	3" SCH 80 PVC											
2	2" SCH 80 PVC	1-5C	2-5C	1	1	1	1	2-#6		1	1	SPARE
	3" SCH 80 PVC											
3	3" SCH 80 PVC	2-5C	4-5C	2	2	2	2	2-#6		1	1	SPARE
	3" SCH 80 PVC											
4	2" SCH 80 PVC	1-5C		1	1	1	1		2-#10	1	1	SPARE / INTERCONNECT
	3" SCH 80 PVC											
5	3" SCH 80 PVC	4-5C	8-5C	4	4	4	4	3-#6		1	1	SPARE
	3" SCH 80 PVC											
6	2" SCH 80 PVC	1-5C		1	1	1	1			1	1	SPARE / INTERCONNECT
	3" SCH 80 PVC											
7	3" SCH 80 PVC	4-5C	8-5C	4	4	4	4			1	1	SPARE
	3" SCH 80 PVC											
8	2" SCH 80 PVC	1-5C		1	1	1	1			1	1	SPARE / INTERCONNECT
	3" SCH 80 PVC											
9	3" SCH 80 PVC	4-5C	8-5C	4	4	4	4			1	1	SPARE
	3" SCH 80 PVC											
10	2" SCH 80 PVC	1-5C		1	1	1	1		2-#2	1	1	SPARE
	3" SCH 80 PVC											
11	3" SCH 80 PVC W/ RISER											
	2" SCH 80 PVC											
12	2" SCH 80 PVC							3-#6		1	1	SPARE
	2" SCH 80 PVC											

USE PLASTIC NIPPLE WHEN DETECTOR ASSEMBLY IS MOUNTED ON PEDESTAL, SIGNAL HEAD FRAMEWORK, OR MAST ARM.

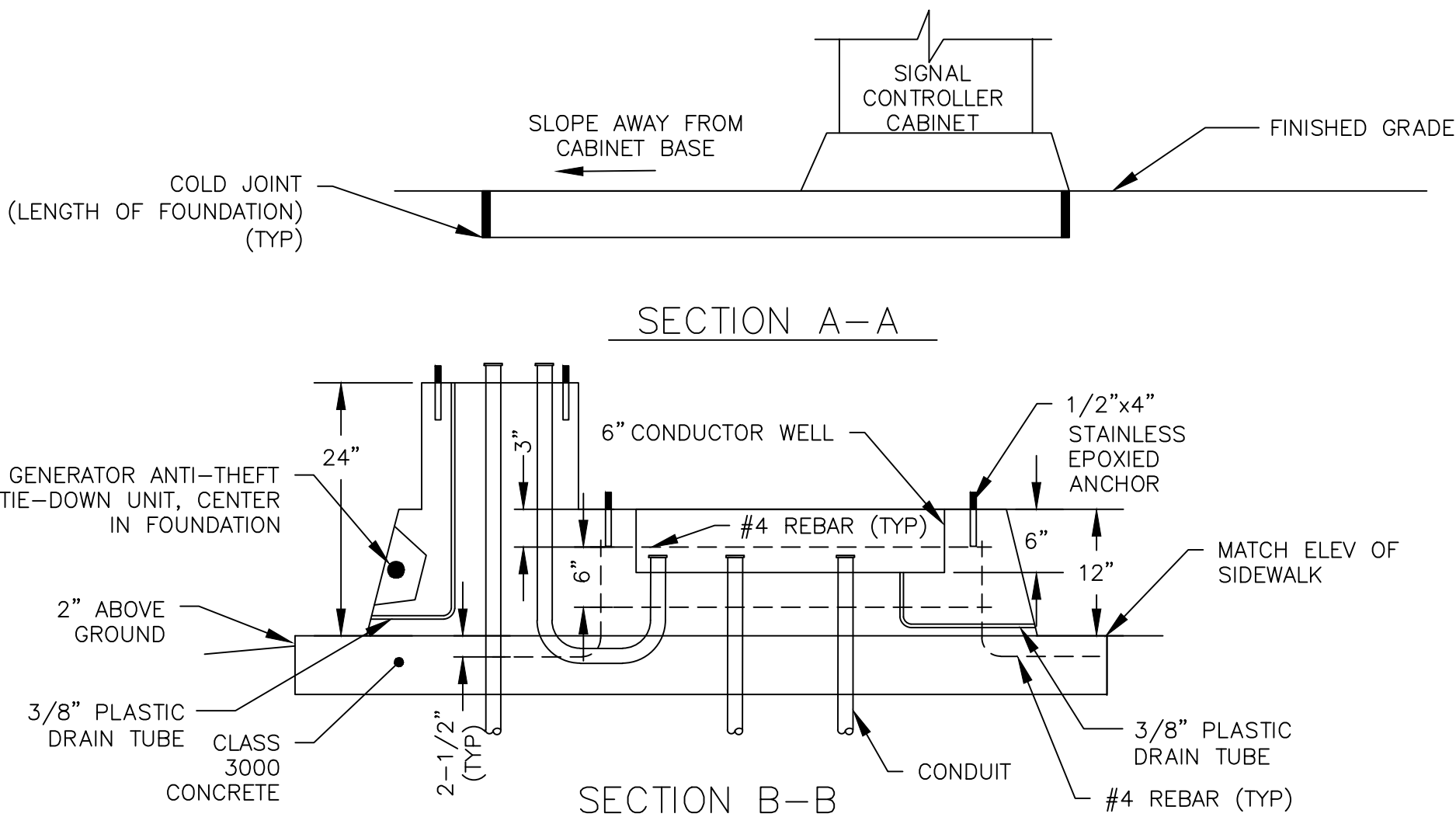
NOTE: T-CONDULET, HARDWARE, FITTINGS AND WASHER SHALL BE ALUMINUM.



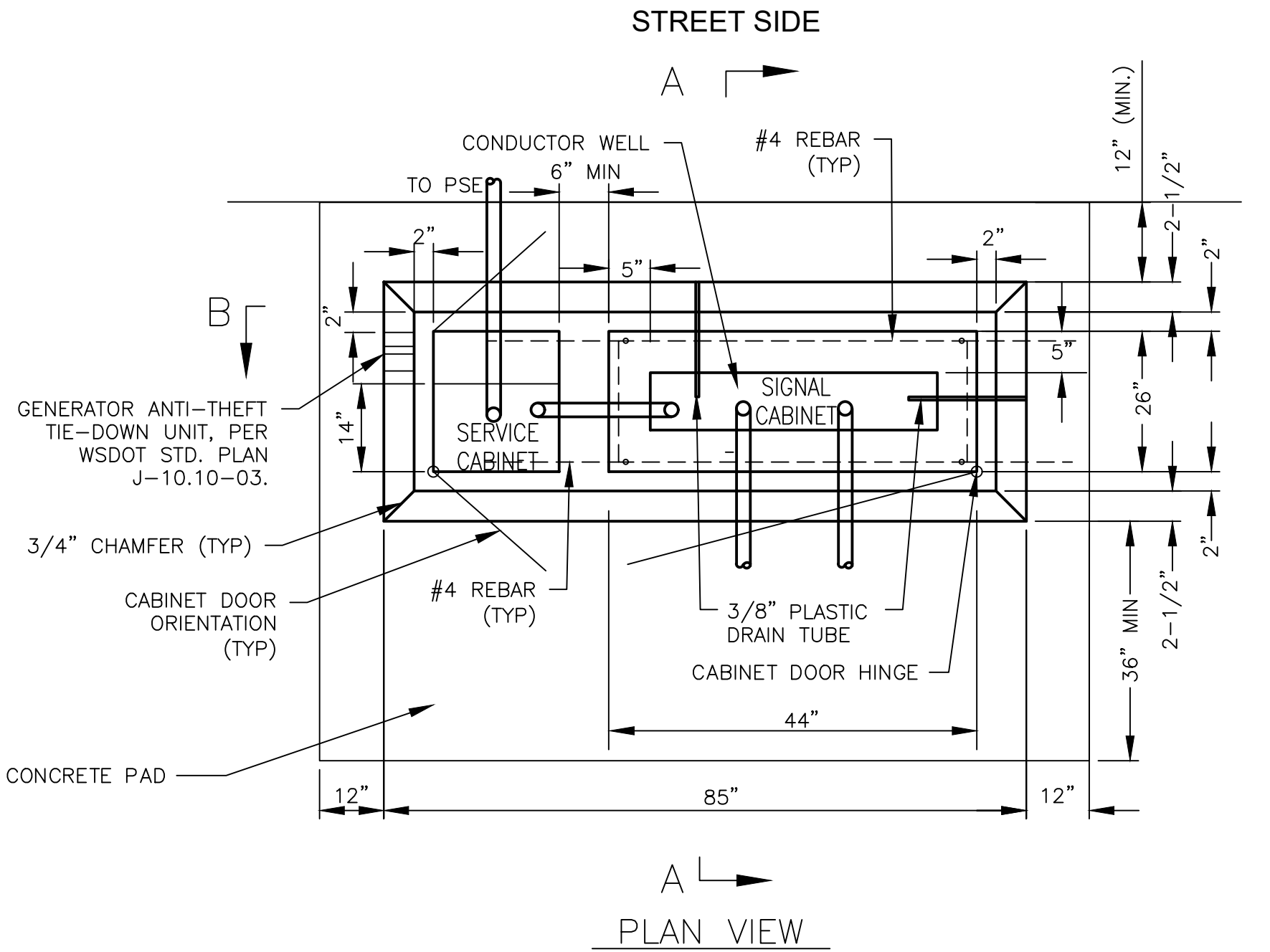
EMERGENCY PREEMPTION DETECTOR/EMITTER
N.T.S.



SPECIAL SIGN DETAIL
NTS



SIGNAL & SERVICE CABINET FOUNDATION DETAIL
N.T.S.

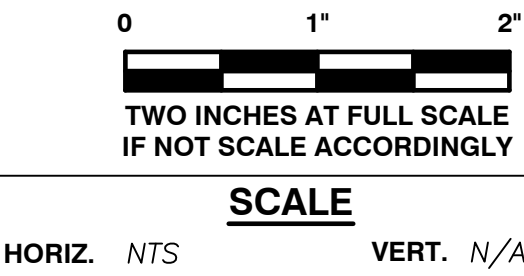


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concord
ENGINEERING



REVISIONS			
NO.	DESCRIPTION	DATE	BY



FIELD BOOK

DRAWING NO. _____

CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION		
DRAWN BY: Y. WANG DATE 04/21/21	DESIGN BY: S. RAHMAN WASH. P.E. # 52682 DATE 04/21/21	CHECKED BY: J. WHEELER WASH. P.E. # 53256 DATE 04/21/21

COMPLETE STREET IMPROVEMENT PROJECT
6TH STREET PHASE II
SIGNAL SCHEDULES AND DETAILS

SHEET	26
	OF
	33

PNL 1900293

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

SG01A

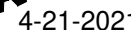
NOT TO SCALE



POLE 07



POLE 08



HORIZ. *NTS* **VERT.** *N/A*

DRAWING NO.

**DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION**

DESIGN BY: S. RAHMAN
WASH. P.E. # 52682 DATE 04/21/21

CHECKED BY: J. WHEELER
WASH. P.E. # 53256 DATE 04/21/21

**COMPLETE STREET IMPROVEMENT PROJECT
6TH STREET PHASE II
SIGNAL TERMINATIONS**

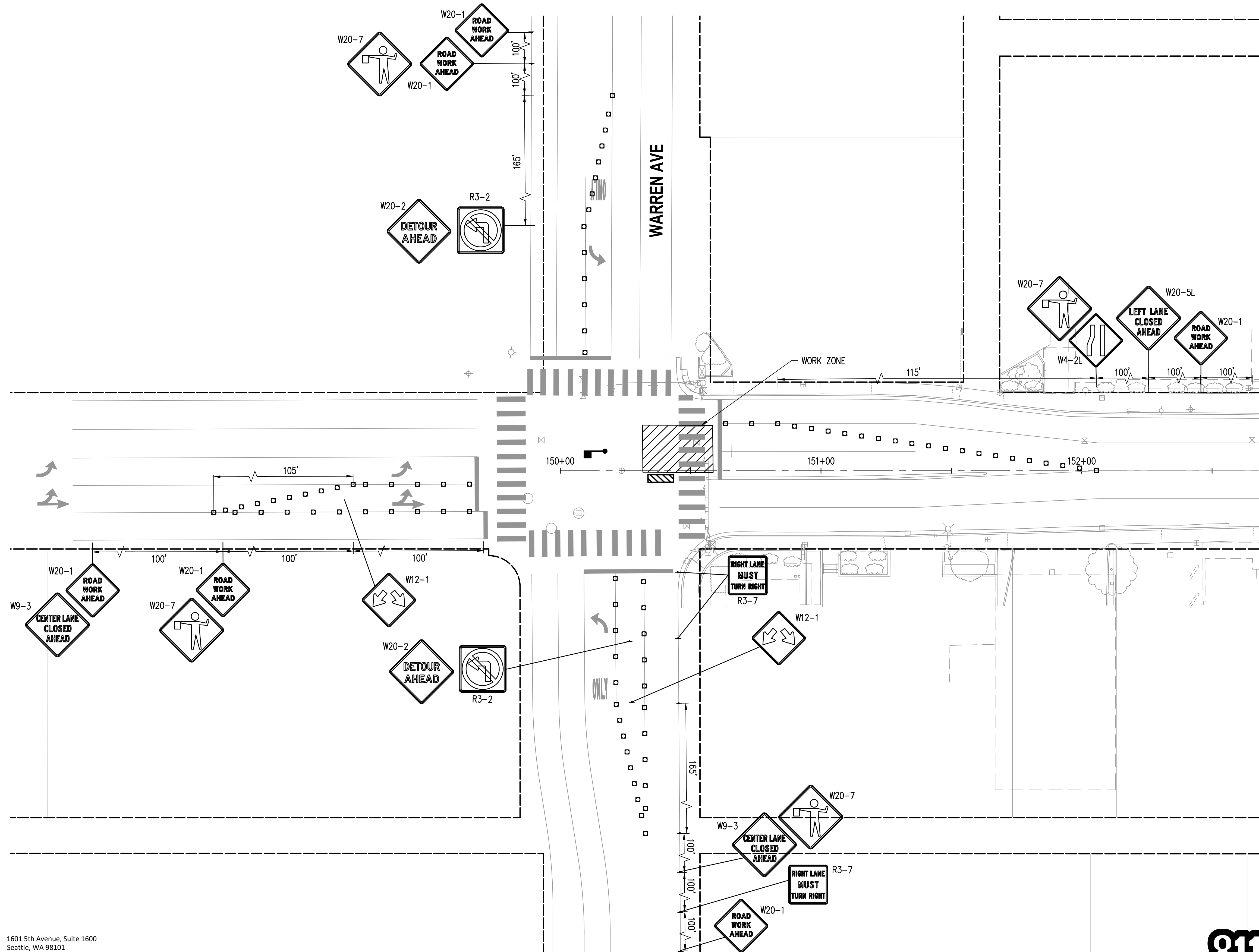
28
OF
33

SG01C

THE UNIVERSITY OF CHICAGO







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GENERAL NOTES

1. REFER TO MUTCD FOR SIGN DETAILS
2. EXACT LOCATION OF SIGNS TO BE DETERMINED BY ENGINEER.
3. ALL SIGNS TO REMAIN UNTIL CONSTRUCTION IS COMPLETE UNLESS DIRECTED BY THE TRAFFIC CONTROL SUPERVISOR.
4. CHANNELIZING DEVICE SPACING SHALL BE 40 FT ON TANGENTS AND 20 FT ON TAPERS
5. ALL SIGNS SHALL BE 36"x36".
6. SIGNS SHALL BE PLACED 100 FT APART OR AS DETERMINED BY THE ENGINEER. SPACING MAY BE REDUCED ON URBAN AREAS TO FIT ROADWAY CONDITIONS.
7. SEE TC02 FOR DETOUR ROUTE.

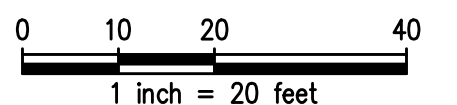
LEGEND

- | | |
|---|---------------------|
|  | CHANNELIZING DEVICE |
|  | WORK ZONE |
|  | TYPE III BARRICADE |
|  | FLAGGER |



Know what's **below**.
Call before you dig.

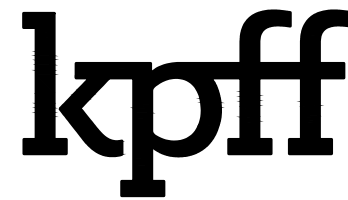
Determina lo que esta **bajo tierra**.
Llama antes de excavar.



TC01

[illegible]

Apr 23, 2021 - 10:30am CAD FILE: toytoramm Z:\900001-1900319\900319 6th Street Preservation - Phase II\CAD\Design\6SP_TC_PH2.dwg



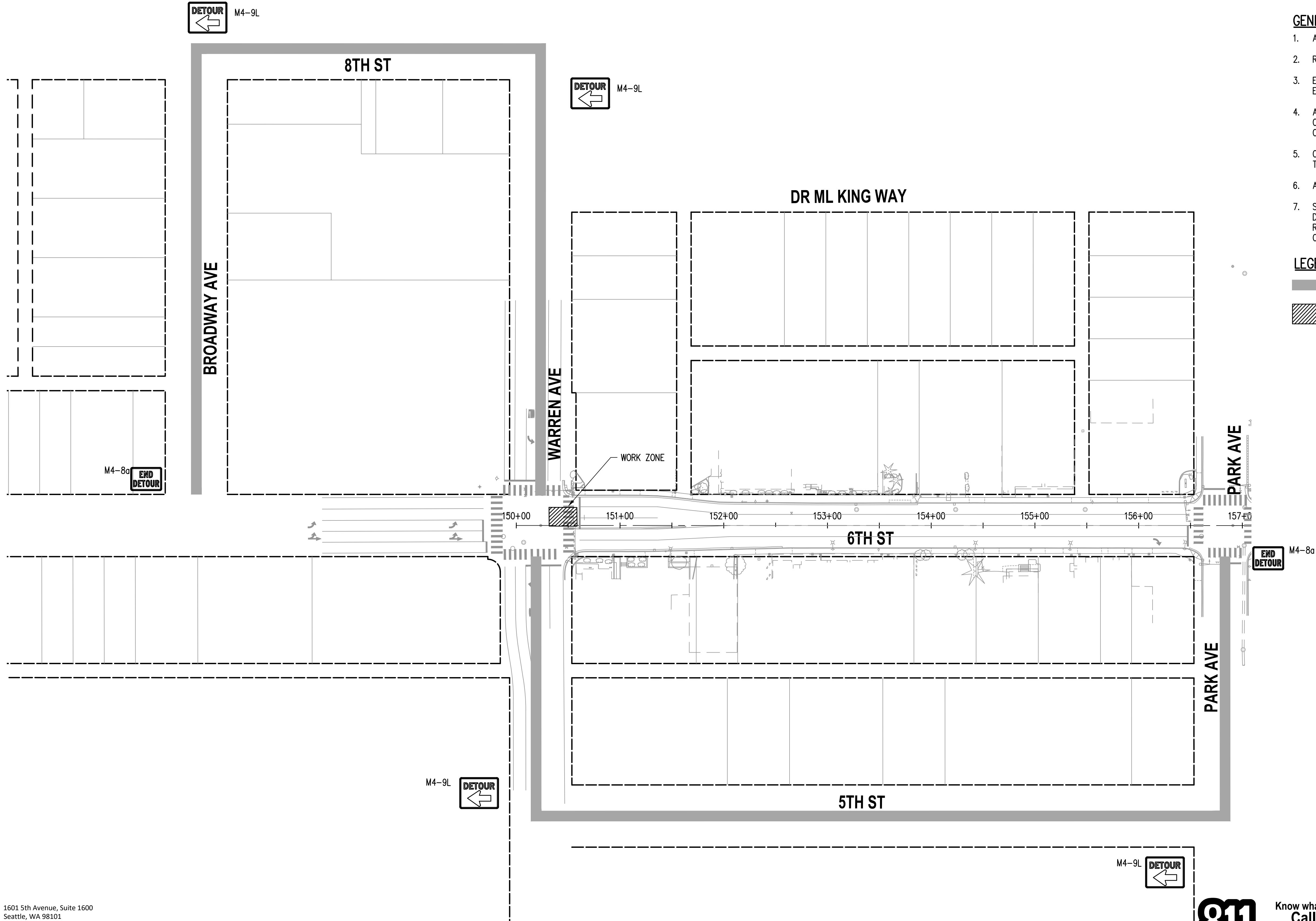
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FIELD BOOK
DRAWING NO.

CITY OF BREMERTON		
DEPARTMENT OF PUBLIC WORKS & UTILITIES		
ENGINEERING DIVISION		
DRAWN BY: M. VU	DESIGN BY: J. GOODMAN	CHECKED BY: P. SLOAN
DATE 04/2021	WASH. P.E. # 53732 DATE 04/2021	WASH. P.E. # 37419 DATE 04/2021

6TH STREET PRESERVATION	
PHASE II	
TRAFFIC CONTROL DETOUR PLAN	
PN: 1900319	SHEET
	31
	OF
	33



GENERAL NOTES

- ALL CONSTRUCTION SIGNS TO BE CLASS A.
- REFER TO MUTCD FOR SIGN DETAILS
- EXACT LOCATION OF SIGNS TO BE DETERMINED BY ENGINEER.
- ALL SIGNS TO REMAIN UNTIL CONSTRUCTION IS COMPLETE UNLESS DIRECTED BY THE TRAFFIC CONTROL SUPERVISOR.
- CHANNELIZING DEVICE SPACING SHALL BE 40 FT ON TANGENTS AND 20 FT ON TAPERS
- ALL SIGNS SHALL BE 36"X36".
- SIGNS SHALL BE PLACED 100 FT APART OR AS DETERMINED BY THE ENGINEER. SPACING MAY BE REDUCED ON URBAN AREAS TO FIT ROADWAY CONDITIONS.

LEGEND

- DETOUR ROUTE
- WORK ZONE

WARREN AVE DETOUR PLAN CHANNELIZATION

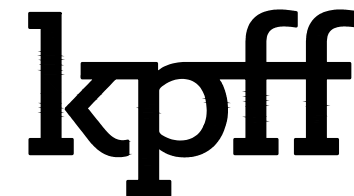


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TC02

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

Apr 23, 2021 - 10:30am CAD FILE: 19000319 - 6th Street Preservation - Phase II CAD00 Design 6SP_TC_P12.dwg



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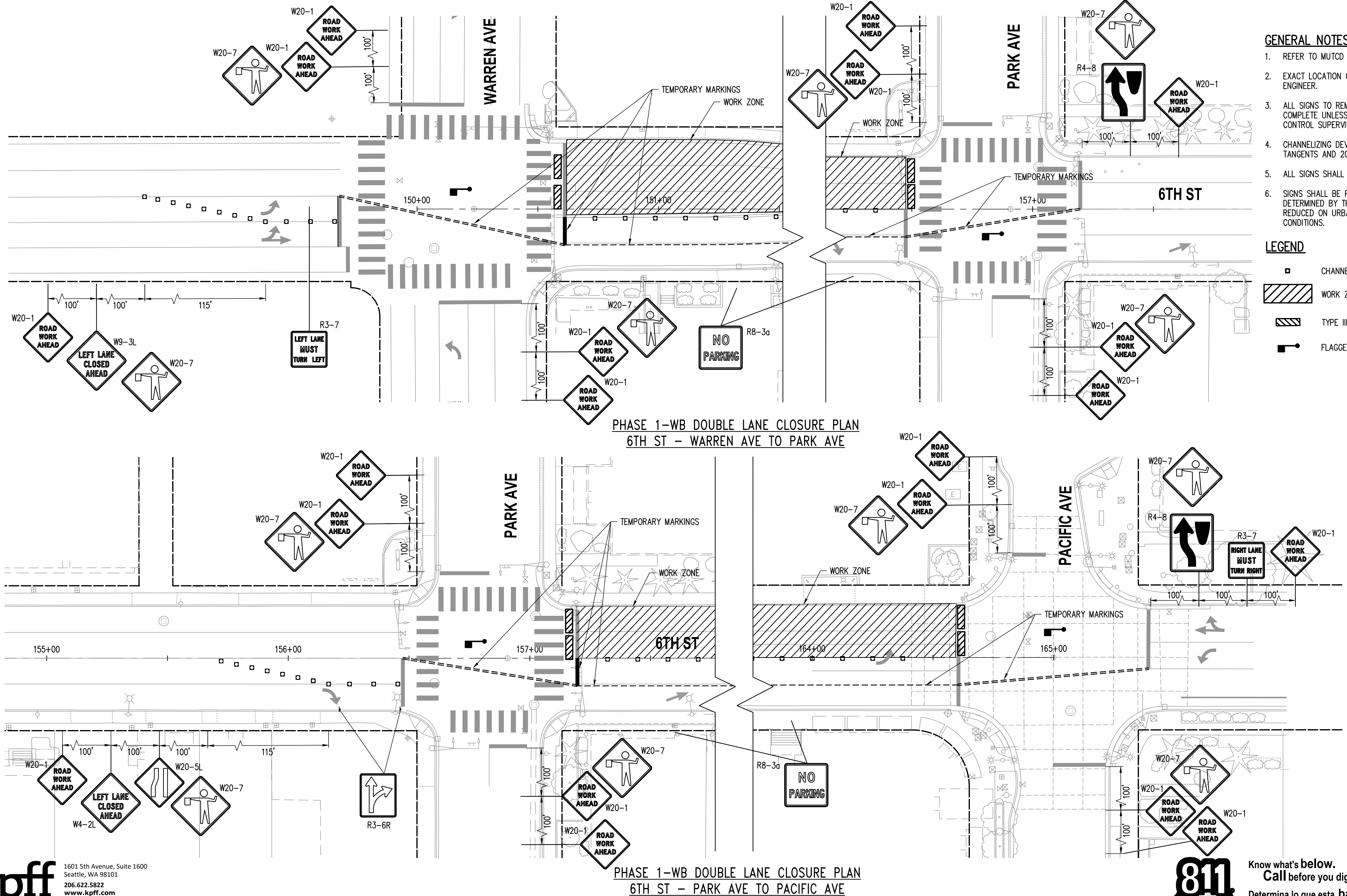
REVISIONS			
NO.	DESCRIPTION	DATE	BY

FIELD BOOK
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CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION		
DRAWN BY: M. VU DATE 04/2021	DESIGN BY: J. GOODMAN WASH. P.E. # 53732 DATE 04/2021	CHECKED BY: P. SLOAN WASH. P.E. # 37419 DATE 04/2021

6TH STREET PRESERVATION
PHASE II
TRAFFIC CONTROL PLAN

PN: 1900319	SHEET
	32 OF 33



GENERAL NOTES

1. REFER TO MUTCD FOR SIGN DETAILS
2. EXACT LOCATION OF SIGNS TO BE DETERMINED BY ENGINEER.
3. ALL SIGNS TO REMAIN UNTIL CONSTRUCTION IS COMPLETE UNLESS DIRECTED BY THE TRAFFIC CONTROL SUPERVISOR.
4. CHANNELIZING DEVICE SPACING SHALL BE 40 FT ON TANGENTS AND 20 FT ON TAPERS
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6. SIGNS SHALL BE PLACED 100 FT APART OR AS DETERMINED BY THE ENGINEER. SPACING MAY BE REDUCED ON URBAN AREAS TO FIT ROADWAY CONDITIONS.

LEGEND

- CHANNELIZING DEVICE
- WORK ZONE
- TYPE III BARRICADE
- FLAGGER



Know what's below.
Call before you dig.
Determina lo que esta bajo tierra.
Llama antes de excavar.

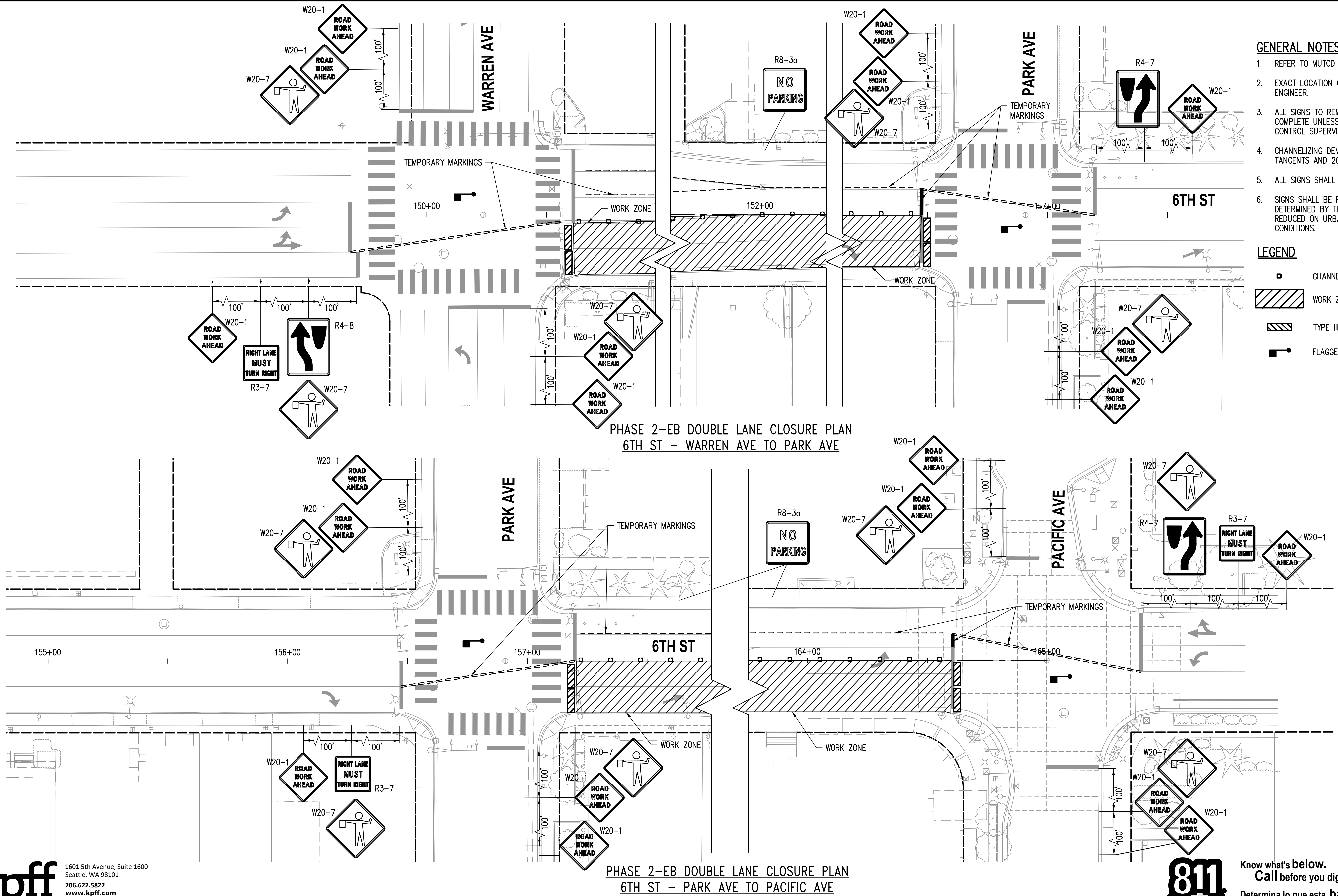
0 10 20 40
1 inch = 20 feet

TC03

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET

Apr 23, 2021 - 10:30am CAD FILE: toytoram Z:\900001-1900399\900319 6th Street Preservation - Phase II\CAD\Design\6SP_TC_PH2.dwg

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- GENERAL NOTES**
- REFER TO MUTCD FOR SIGN DETAILS
 - EXACT LOCATION OF SIGNS TO BE DETERMINED BY ENGINEER.
 - ALL SIGNS TO REMAIN UNTIL CONSTRUCTION IS COMPLETE UNLESS DIRECTED BY THE TRAFFIC CONTROL SUPERVISOR.
 - CHANNELIZING DEVICE SPACING SHALL BE 40 FT ON TANGENTS AND 20 FT ON TAPERS
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- LEGEND**
- CHANNELIZING DEVICE
 - WORK ZONE
 - TYPE III BARRICADE
 - FLAGGER

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Determina lo que esta bajo tierra.
Llama antes de excavar.

TC04

REVISIONS				FIELD BOOK	CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			6TH STREET PRESERVATION PHASE II TRAFFIC CONTROL PLAN		PN: 1900319	SHEET 33 OF 33
NO.	DESCRIPTION	DATE	BY								
				DRAWING NO.	DRAWN BY: M. VU DATE 04/2021	DESIGN BY: J. GOODMAN WASH. P.E. # 53732 DATE 04/2021	CHECKED BY: P. SLOAN WASH. P.E. # 37419 DATE 04/2021				

COMPLETE STREETS IMPROVEMENT PROJECTS - 6TH STREET