

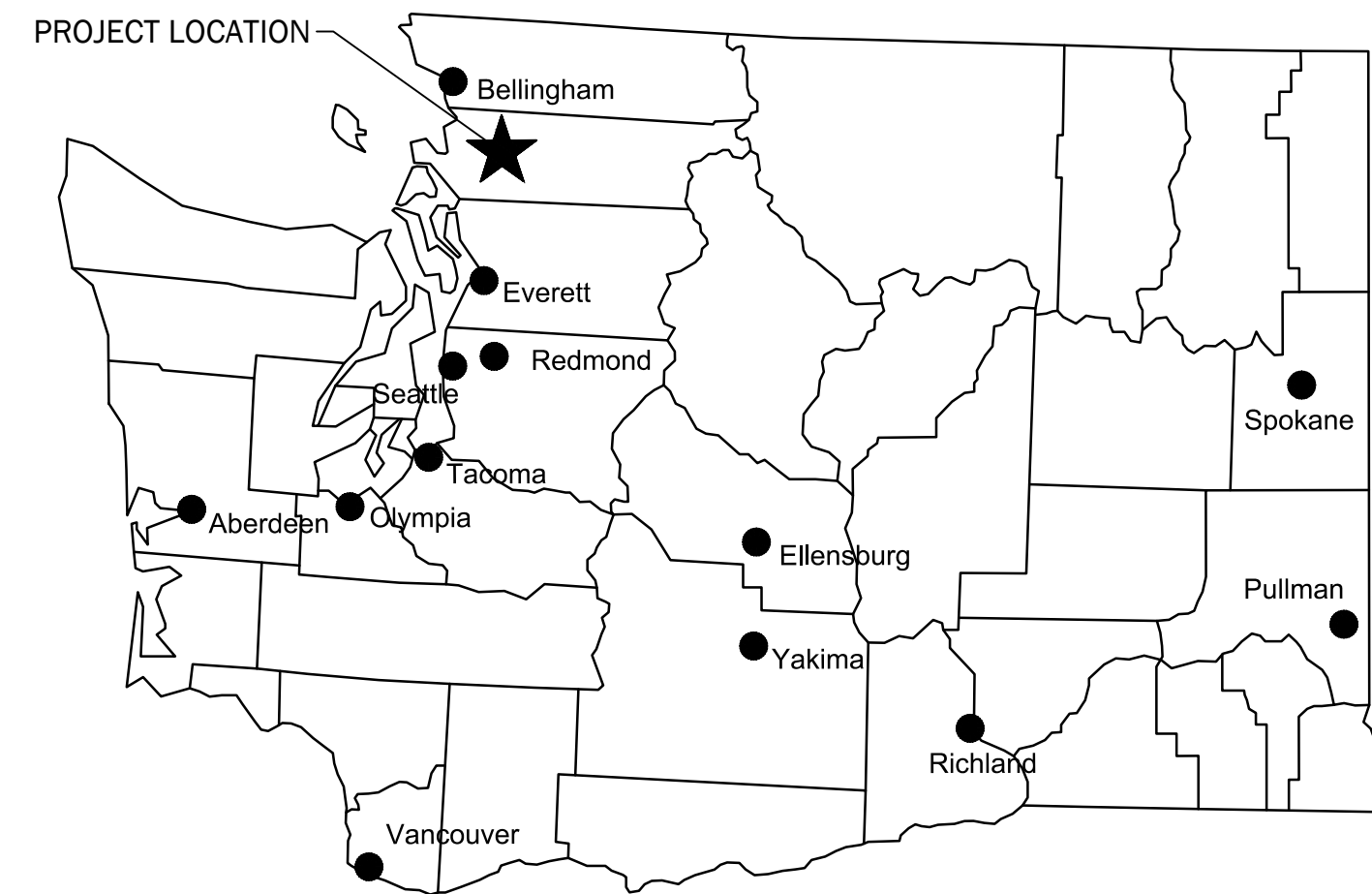
SCHEDULE A: PIPELINE RELOCATION ON SR-20 AT OLSON CREEK

SKAGIT COUNTY, WASHINGTON



1/4/2024

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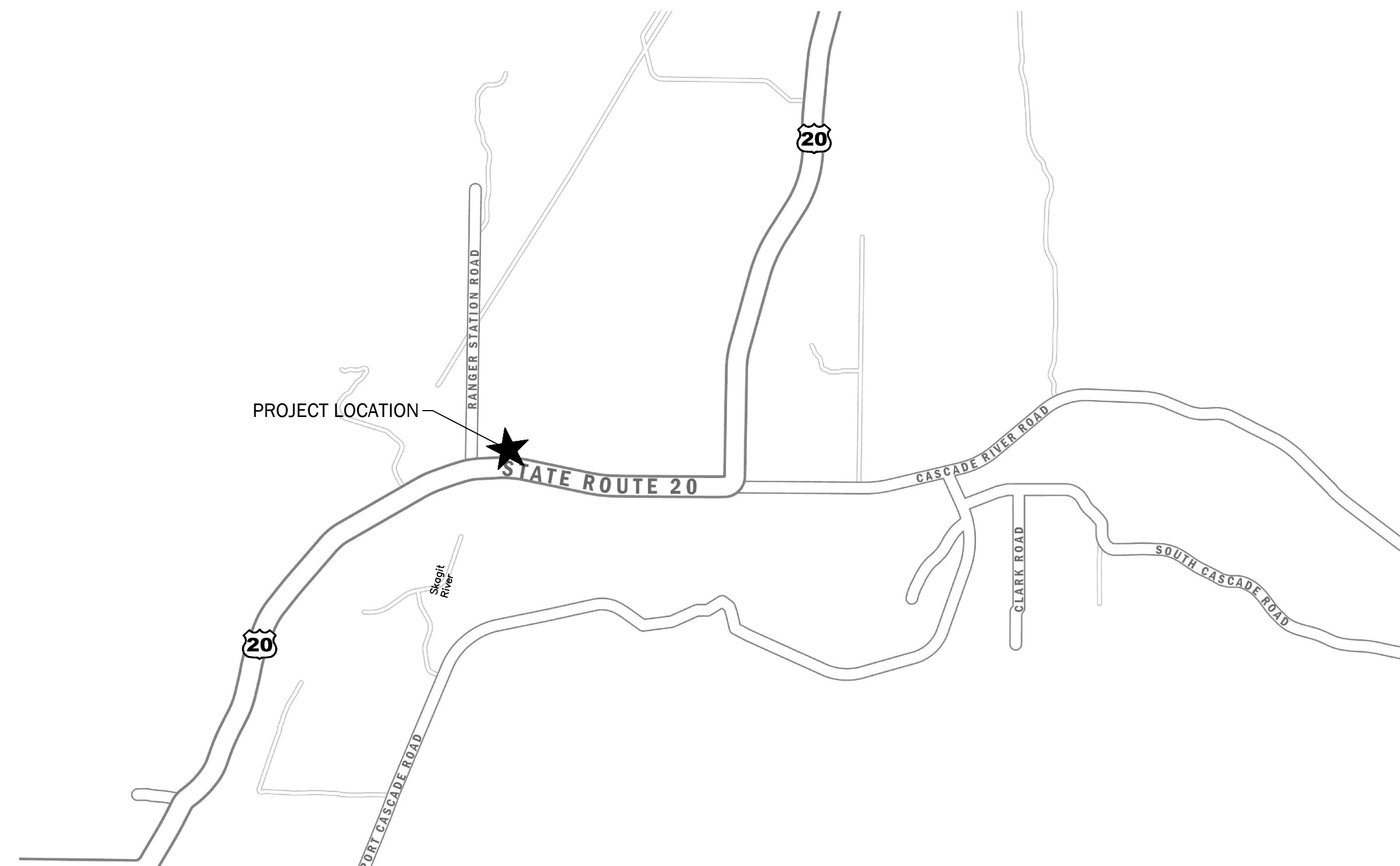
LOCATION MAP
NTS

SKAGIT COUNTY, WASHINGTON
CP16277
CO 2023 - 03910
JANUARY 4, 2024

DISTRICT NO. 1 OF SKAGIT COUNTY

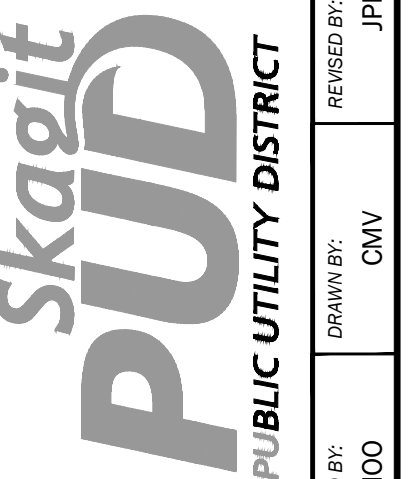
DISTRICT OFFICIALS

JOE LINDQUIST ANDREW MILLER CORRIN HAMBURG	PRESIDENT VICE PRESIDENT SECRETARY
GEORGE SIDHU, P.E. MARK C. HANDZLIK, P.E. MICHAEL FOX	GENERAL MANAGER ENGINEERING MANAGER OPERATIONS MANAGER



VICINITY MAP
Scale: 1" = 2000'

DRAWING INDEX		
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COVER SHEET
SCHEDULE A: PIPELINE RELOCATION
ON SR-20 AT OLSON CREEK
SKAGIT COUNTY, WASHINGTON

SHEET
REFERENCE
NUMBER:

G-1

SHEET 1 OF 9



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SURVEY INFORMATION

1. SURVEY BY SEMRAU ENGINEERING & SURVEYING, PLLC., DATED 8/21/2023.
2. BASIS OF BEARING: NAVD83 AND NAVD88, WASHINGTON STATE PLANE, NORTH ZONE, FROM WSDOT MONUMENTS "GP29020-107" AND "IS2928". WSDOT MONUMENT "N 380" WAS NOT FOUND DURING THE CONTROL TRAVERSE AND WAS ONLY LOCATED BY A SIDE SHOT DURING THE TOPOGRAPHIC SURVEY.
3. DATUM: NAVD88, FROM WSDOT MONUMENTS GP29020-107 AND IS2928.
4. INSTRUMENTATION: LEICA MS50 THEODOLITE DISTANCE METER, LEICA GS14 RTK GPS RECEIVER.
5. SURVEY PROCEDURE: STANDARD FIELD TRAVERSE.
6. CONTROL TRAVERSE EXTENDED FROM THE MONUMENT IN CASE NEAR THE SOUTHEAST CORNER OF SECTION 12 TO THE SOUTHWEST CORNER OF SECTION 12. THIS WAS USED TO CALCULATE THE SR20 RIGHT-OF-WAY FROM WSDOT PLANS SHEET 8 OF 8, ROCKY CREEK TO MARBLEMOUNT VIC., SEPTEMBER 21, 1979 AND SHEET 2 OF 3 MARBLEMOUNT VIC. MP 105.58 TO MP 106.53, MARCH 17, 1978. THIS RIGHT OF WAY DID NOT FIT THE ROADWAY LOCATION. ALL RECORD OF SURVEY MAPS IN THIS VICINITY USE THE AS-BUILT CENTERLINE OF THE EXISTING ROAD TO POSITION THE WSDOT ROW OF WAY. THIS MAP SHOWS THE LOCATION OF THE 60 FOOT RIGHT OF WAY FROM THE AS-BUILT ROADWAY.
7. SIDE LOT LINES ON THIS MAP ARE FROM SKAGIT COUNTY ASSESSOR MAP INFORMATION.
8. EXCEPT AS SPECIFICALLY STATED OR SHOWN ON THIS SURVEY MAP, THIS SURVEY DOES NOT PURPORT TO REFLECT ALL OF THE FOLLOWING WHICH MAY BE APPLICABLE TO THE SUBJECT REAL ESTATE: EASEMENTS, BUILDING SETBACKS LINES, RESTRICTIVE COVENANTS, SUBDIVISION RESTRICTIONS, ZONING OR OTHER LAND-USE REGULATIONS AND ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
9. REFERENCE SURVEYS
SR 20, MP 102.33 TO MP 105.58, ROCKY CREEK TO MARBLEMOUNT, SEPT 21, 1979 AND SR 20 MP 105.58 TO MP 106.53, MARBLEMOUNT VIC, MARCH 17, 1978 THE CALCULATED RIGHT OF WAY DOES NOT MATCH THE EXISTING LOCATION OF THE ROAD. RECORDED SURVEYS IN THIS AREA ALL USE THE AS-BUILT CENTERLINE FOR THE CENTERLINE OF THE RIGHT-OF-WAY.

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT BUILDINGS, FENCES, APPURTENANCES, ABOVE GROUND UTILITIES, AND OTHER PROPERTY ADJACENT TO ALL CONSTRUCTION AREAS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING ALL DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
2. ONSITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE IN PLACE PRIOR TO CONSTRUCTION. ANY DEFICIENCIES OCCURRING BEFORE FINAL ACCEPTANCE BY THE DISTRICT SHALL BE CORRECTED BY THE CONTRACTOR. UPON FINAL ACCEPTANCE BY THE DISTRICT, OR AS OTHERWISE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS DIRECTED BY THE ENGINEER.
3. ANY REVISIONS TO PLANS MUST BE MADE BY THE ENGINEER AND APPROVED BY THE DISTRICT PRIOR TO ANY IMPLEMENTATION IN THE FIELD.
4. A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
5. MATERIALS SAMPLING AND TESTING SHALL BE AT A FREQUENCY AND MAGNITUDE AS SPECIFIED IN THE STANDARD SPECIFICATIONS OR DETERMINED BY THE ENGINEER. A PRIVATE AND INDEPENDENT TESTING LABORATORY SHALL PERFORM TESTING AND SAMPLING. CERTIFIED TEST REPORTS SHALL BE FURNISHED TO THE DISTRICT FOR ALL TESTS PERFORMED BY PRIVATE TESTING LABORATORIES.

GENERAL TRENCHLESS WATER MAIN CONSTRUCTION NOTES

1. PERMITTED WORK IS FOR A WATER LINE TO BE INSTALLED USING A COMBINATION OF TRENCH AND TRENCHLESS METHODS AS SHOWN. THE CONTRACTOR IS FULLY RESPONSIBLE FOR OBTAINING NEW PERMITS IF A DIFFERENT METHOD IS PROPOSED.
2. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING DIMENSIONS AND LOCATIONS OF LAUNCH/RECEIVING PITS.
3. PROFILE STATIONING REFERENCES CONTROL ALIGNMENT. PROFILE ELEVATIONS SHOWN ARE DIRECTLY ABOVE PROPOSED WATERMAIN ALIGNMENT.
4. THE CONTRACTOR SHALL CONTAIN WORK TO WITHIN RIGHT OF WAY OR THE TEMPORARY CONSTRUCTION EASEMENT LIMITS AS ILLUSTRATED ON THE PLANS.

SITE RESTORATION NOTES

1. RESTORE ALL PROPERTY TO A CONDITION THAT EXISTED PRIOR TO CONSTRUCTION OR BETTER AT NO ADDITIONAL COST TO THE DISTRICT.
2. REPAIR ALL LANDSCAPING AND GRAVEL AREAS TO EXISTING OR BETTER CONDITION. ASSESS AND RESTORE ANY DAMAGE TO THE ASPHALT ROADWAY, IF ANY.

**DISTRICT STANDARD GENERAL NOTES
(MINIMUM REQUIREMENTS)**

1. UNLESS STATED OTHERWISE, ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND THE DISTRICT REQUIREMENTS AS OUTLINED IN THE DISTRICT'S WATER POLICY MANUAL.
2. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE DISTRICT ENGINEERING DEPARTMENT, (360) 424-7104, A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
3. ALL PERMITS NECESSARY FOR THE INSTALLATION OF THE PROPOSED WATER SYSTEM IMPROVEMENTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER, ENGINEER, OR CONTRACTOR TO ACQUIRE. A COPY OF THE PERMITS WILL BE SUBMITTED TO THE DISTRICT, PRIOR TO CONSTRUCTION. ALL RIGHTS SHALL BE GRANTED TO, OR TRANSFERRED TO THE DISTRICT.
4. DISTRICT REFERENCE DOCUMENTS, SUCH AS STANDARD DETAILS, WATER POLICY MANUAL, DRAWING STANDARDS, ETC., CAN BE FOUND ON THE DISTRICT WEBSITE AT WWW.SKAGIT.PUD.ORG.
5. ALL TIE-INS, SHUTDOWN, FLUSHING, AND HEALTH SAMPLES SHALL BE COORDINATED WITH THE DISTRICT. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES.
6. A LIST OF ALL MATERIALS, INDICATING THE MANUFACTURER, MODEL, AND SIZE, FOR THE WATER SYSTEM IMPROVEMENTS WILL BE APPROVED BY THE DISTRICT PRIOR TO CONSTRUCTION. CONTACT DISTRICT FOR SUBMITTAL REQUIREMENTS.
7. PVC PIPE SHALL BE IN ACCORDANCE WITH SECTION 9-30.1(5)A OF THE STANDARD SPECIFICATIONS.
8. ALL BOLTS USED IN BURIED FLANGES SHALL BE ASTM A307 GRADE B UNFINISHED WITH NUTS TO ASTM A563 GRADE A AND WASHERS TO ASTM F8444, OR ASTM A325 TYPE 3 (COR-TEN STEEL) UNFINISHED, WITH NUTS TO ASTM A563C3 OR A563DH3 AND WASHERS TO ASTM F436-1. ALL BOLTS, NUTS AND WASHERS USED IN EXPOSED OR ABOVE GROUND LOCATIONS SHALL BE ASTM A307 GRADE B UNFINISHED OR HOT-DIP GALVANIZED.
9. ALL GATE VALVES TO BE RESILIENT SEATED GATE VALVES, AWWA C515 OR C509 (DUCTILE IRON BODY ONLY) WITH STAINLESS STEEL NUTS, BOLTS AND TRIM.
10. ALL BUTTERFLY VALVES TO BE RUBBER SEATED BUTTERFLY VALVES, AWWA C504 WITH STAINLESS STEEL NUTS, BOLTS AND TRIM.
11. RESTRAINED JOINTS MAY BE USED IN PLACE OF CONCRETE BLOCKING AS DIRECTED BY THE PROJECT'S DESIGN ENGINEER AND ACCEPTED BY THE DISTRICT.
12. ALL FIRE HYDRANTS SHALL CONFORM TO AWWA C502 WITH STORZ ADAPTORS. ACCEPTABLE FIRE HYDRANTS INCLUDE CLOW MEDALLION, MUELLER CENTURION OR SUPER CENTURION, AMERICAN DARLING B62B AND AMERICAN AVK NOSTALGIC.
13. A #10 SOLID COPPER WIRE WITH BLUE INSULATION IS TO BE INSTALLED WITH/AND ATTACHED TO ALL NEW WATER PIPELINES AND SERVICE PIPELINES. REFER TO DISTRICT DETAILS FOR INSTALLATION REQUIREMENTS.
14. UNLESS OTHERWISE SPECIFIED, ALL WATER PIPELINE INSTALLATIONS REQUIRE A 36-INCH MINIMUM COVER AND 48-INCH TYPICAL TRENCH DEPTH TO EXISTING OR FUTURE FINISH GRADE AND A MINIMUM OF 1-FOOT VERTICAL AND 5-FOOT HORIZONTAL CLEARANCE BETWEEN WATER PIPELINE AND ALL OTHER UTILITIES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL WATER PIPELINE INSTALLATIONS WITHIN THE WSDOT ROW MUST BE 60-INCH MINIMUM BELOW ADJACENT PAVEMENT ELEVATIONS FROM THE CREST OF PIPE.
15. WHEN INSTALLING WATER PIPELINE ACROSS EXISTING OR PROPOSED SANITARY SEWER, A FULL LENGTH OF PIPE SHALL BE INSTALLED WITH MID-SPAN OF THE WATER PIPE OVER THE SEWER. A MINIMUM 10-FOOT HORIZONTAL SEPARATION AND 18-INCH VERTICAL SEPARATION BETWEEN WATER PIPELINES AND SANITARY SEWER PIPELINES IS REQUIRED, UNLESS AN ALTERNATIVE PROPOSAL FROM THE DESIGN ENGINEER IS SUBMITTED TO AND APPROVED BY THE DISTRICT.
16. BEDDING MATERIAL FOR THE DUCTILE IRON PIPE SHALL BE SELECT, NATIVE, GRANULAR MATERIAL FREE FROM WOOD, WASTE, ORGANIC MATERIAL OR OTHER EXTRANEIOUS OR OBJECTIONABLE MATERIALS AND SHALL BE A MAXIMUM SIZE OF 1 1/2-INCHES OR APPROVED PIPE BEDDING PER WSDOT SPECIFICATION 7-09.3(9) AND 9-03.12(3). PEA GRAVEL AND BUCKSHOT ARE NOT ACCEPTABLE.
17. BACKFILL TRENCHES IN PAVEMENT AREAS WITH PIT-RUN GRAVEL COMPACTED TO AT LEAST 95 PERCENT MINIMUM DENSITY PER WSDOT SPECIFICATION 7-09.3(11). THE CONTRACTOR SHALL MAKE ALL PAVEMENT REPAIRS AND PERFORM ALL RESTORATION.
18. PRESSURE TESTING AND DISINFECTION SHALL BE IN ACCORDANCE WITH SKAGIT PUD WATERLINE TESTING AND DISINFECTION PROCEDURES.
19. ALL SALVAGED USABLE DISTRICT OWNED MATERIALS ARE TO BE DELIVERED TO THE DISTRICT OFFICE AT 1415 FREEWAY DRIVE, MOUNT VERNON, OR AS DIRECTED BY THE DISTRICT.
20. THE UTILITY LOCATIONS MARKED ON THIS MAP ARE APPROXIMATE. THE CONTRACTOR IS TO VERIFY ACTUAL LOCATION AND DEPTH PRIOR TO CONSTRUCTION. CALL THE UNDERGROUND UTILITY LOCATE CENTER AT 800- 424-5555.
21. ALL PRIVATE FIRE SPRINKLERS OR PRIVATE FIRE HYDRANT PIPELINES ARE REQUIRED TO BE INSTALLED WITH A WASHINGTON STATE DEPARTMENT OF HEALTH (WSDOH) APPROVED DOUBLE CHECK DETECTOR ASSEMBLY(IES) OR REDUCED PRESSURE DETECTOR ASSEMBLY(IES), LOCATED IMMEDIATELY AFTER THE FIRE SERVICE CONNECTION. A BADGER RECORDALL METER WITH A REMOTE TOUCH-READ PAD WILL BE SUPPLIED AND INSTALLED BY THE DISTRICT WITHIN 6-INCHES OF THE VAULT LID'S HINGE AND BRASS PLUGS IN THE TEST PORTS. METER SUPPLY AND INSTALLATION WILL BE INCLUDED WITH THE CHARGES IN THE WORK ORDER.
22. A LEAD FREE, WASHINGTON STATE APPROVED, REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED AT TEMPORARY CONNECTIONS BETWEEN THE EXISTING DISTRICT PIPELINES AND NEW WATER PIPELINES FOR FILLING, FLUSHING AND PRESSURE TESTING OF THE IMPROVEMENTS. UPON TEMPORARY CONNECTION, AND PRIOR TO FILLING, THE ASSEMBLY SHALL HAVE BEEN SUCCESSFULLY TESTED BY A BACKFLOW ASSEMBLY TESTER (BAT) AND THE TEST REPORT IS TO BE PROVIDED TO THE DISTRICT.
23. BEFORE FINAL CONNECTION TO THE EXISTING DISTRICT SYSTEM, ALL NEW WATER PIPELINES AND REPAIRED PORTIONS OF/OR EXTENSION TO EXISTING PIPELINES SHALL BE ADEQUATELY DISINFECTED AND A SATISFACTORY BACTERIOLOGICAL REPORT OBTAINED.

EXISTING FEATURES LEGEND

- ⊗ VIBRATING WIRE PIEZOMETER
- ⊙ SOIL BORING
- ⊕ SIGN, AS NOTED
- MB MAILBOX
- ⊙ GP GATE POST
- ⊙ WP WOOD POST
- ⊙ SP STEEL POST FENCE
- ⊙ TP TELEPHONE PEDESTAL
- ⊙ PP POWER ON POST
- ⊙ UP UTILITY POLE
- GA GUY ANCHOR
- ⊗ PJB POWER JUNCTION BOX
- ⊗ WV WATER VALVE
- ⊗ WM WATER METER
- ⊗ GV GAS VALVE
- ⊗ GM GAS METER
- ⊙ SL SEPTIC LID 2' DIAMETER
- ⊙ SCO SEPTIC CLEAN OUT 4" PVC
- CB CATCH BASIN, AS NOTED
- EP EDGE OF PAVEMENT
- P — POWER
- P — POWER LINE
- X — FENCE, AS NOTED
- ⊕ TELEPHONE VAULT
- ⊕ POWER VAULT
- W — EXISTING 8-INCH DIAMETER DUCTILE IRON WATER PIPELINE
- P45116 PARCEL NUMBER
- #59665 RESIDENCE ADDRESS
- ROW — WSDOT RIGHT-OF-WAY

PROPOSED FEATURES TO BE INSTALLED BY OTHERS PRIOR TO THIS PROJECT

- BELOW GRADE VAULT
- E — BELOW GRADE ELECTRIC
- O — OVERHEAD ELECTRIC
- ⊙ POWER POLE

PROPOSED FEATURES LEGEND

- ⊙ CP-01 PROJECT CONTROL POINT
- ⊗ WATER VALVE
- PROPOSED WATER PIPELINE INSTALLED USING TRENCHLESS METHODS
- W — PROPOSED WATER PIPELINE INSTALLED USING TRENCH METHODS
- H TRENCH TO TRENCHLESS CONNECTION
- ⊗ STRAW WATTLE
- ⊗ WATER PIPELINE TO BE ABANDONED BY OTHERS

ABBREVIATIONS

APPROX.	APPROXIMATELY
AWWA	AMERICAN WATER WORKS ASSOCIATION
CB	CATCH BASIN
CONC.	CONCRETE
CMP	CORRUGATED METAL PIPE
CPE	CORRUGATED POLYETHYLENE
DI	DUCTILE IRON
DISTRICT	PUBLIC UTILITY DISTRICT NO. 1 OF SKAGIT COUNTY
DR	DIMENSION RATIO
EL	ELEVATION
ELL	ELBOW
I.E.	INVERT ELEVATION
HDPE	HIGH DENSITY POLYETHYLENE
LF	LINEAR FEET
MJ	MECHANICAL JOINT
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
O.C.	ON CENTER
PC	PRESSURE CLASS
PSE	PUGET SOUND ENERGY
PVC	POLYVINYL CHLORIDE
ROW	RIGHT-OF-WAY
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

TEST DATE	_____	TEST PRESSURE	_____
TIME START	_____	TIME END	_____
PRESSURE DROP	_____	MAKE-UP WATER	_____



1/4/2024

NO.	DATE	DESCRIPTION	ISSUED FOR BID	REF.
	1/4/24			

Skagit PUD PUBLIC UTILITY DISTRICT

DESIGNED BY: MOC

DRAWN BY: CMV

REVISION BY: JPR

Aspect CONSULTING

PROJECT NUMBER: 230205

DATE: Dec-2023

GENERAL NOTES AND ABBREVIATIONS
SCHEDULE A- PIPELINE RELOCATION ON SR-20 AT OLSON CREEK SKAGIT COUNTY, WASHINGTON

SHEET REFERENCE NUMBER:
G-2
SHEET 2 OF 9

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SKAGIT PUD
PUBLIC UTILITY DISTRICT

DESIGNED BY: MOC
DRAWN BY: CMV
REVIEWED BY: JPR

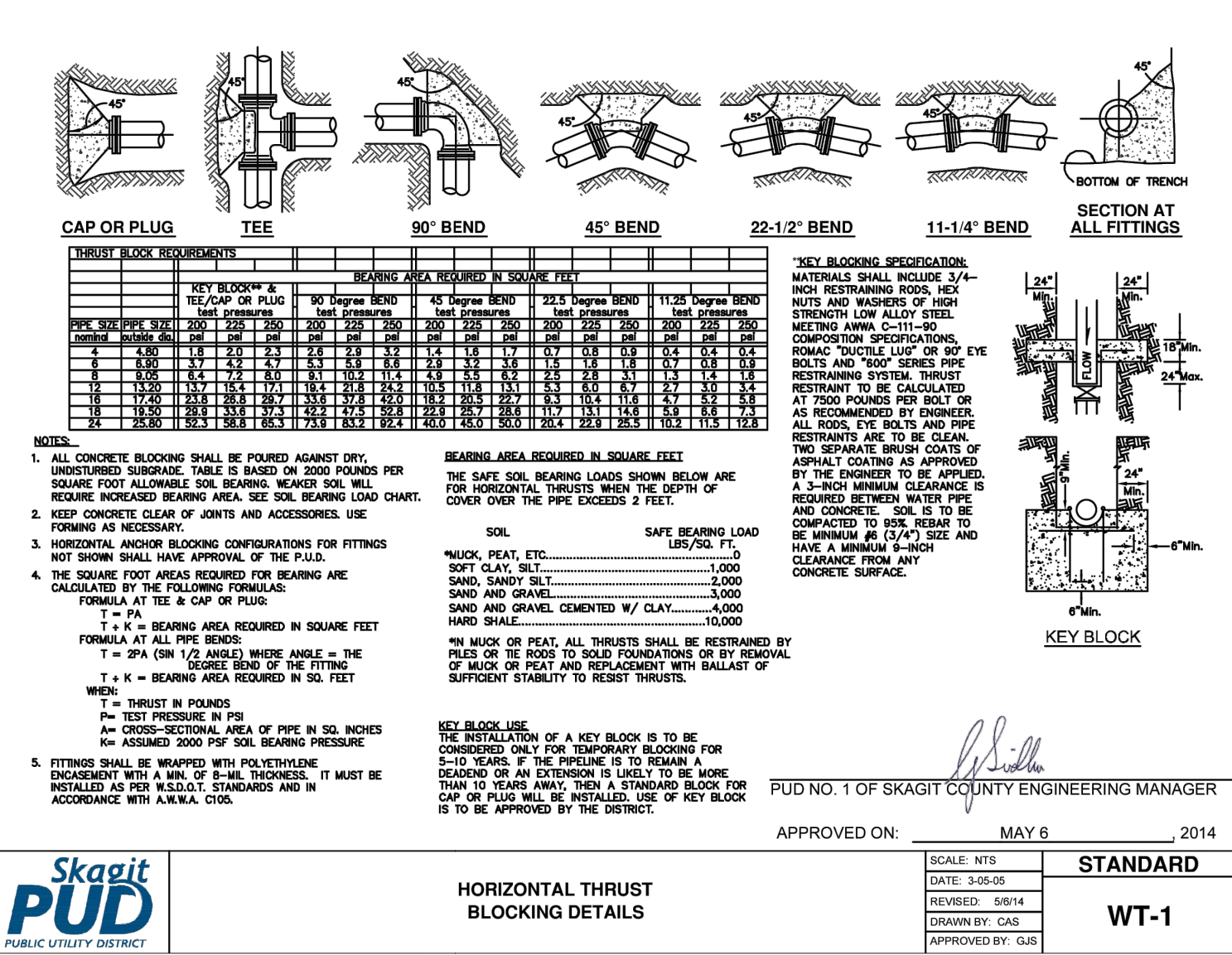
Aspect
CONSULTING

PROJECT NUMBER: 230205
REVISION: -
DATE: Dec-2023

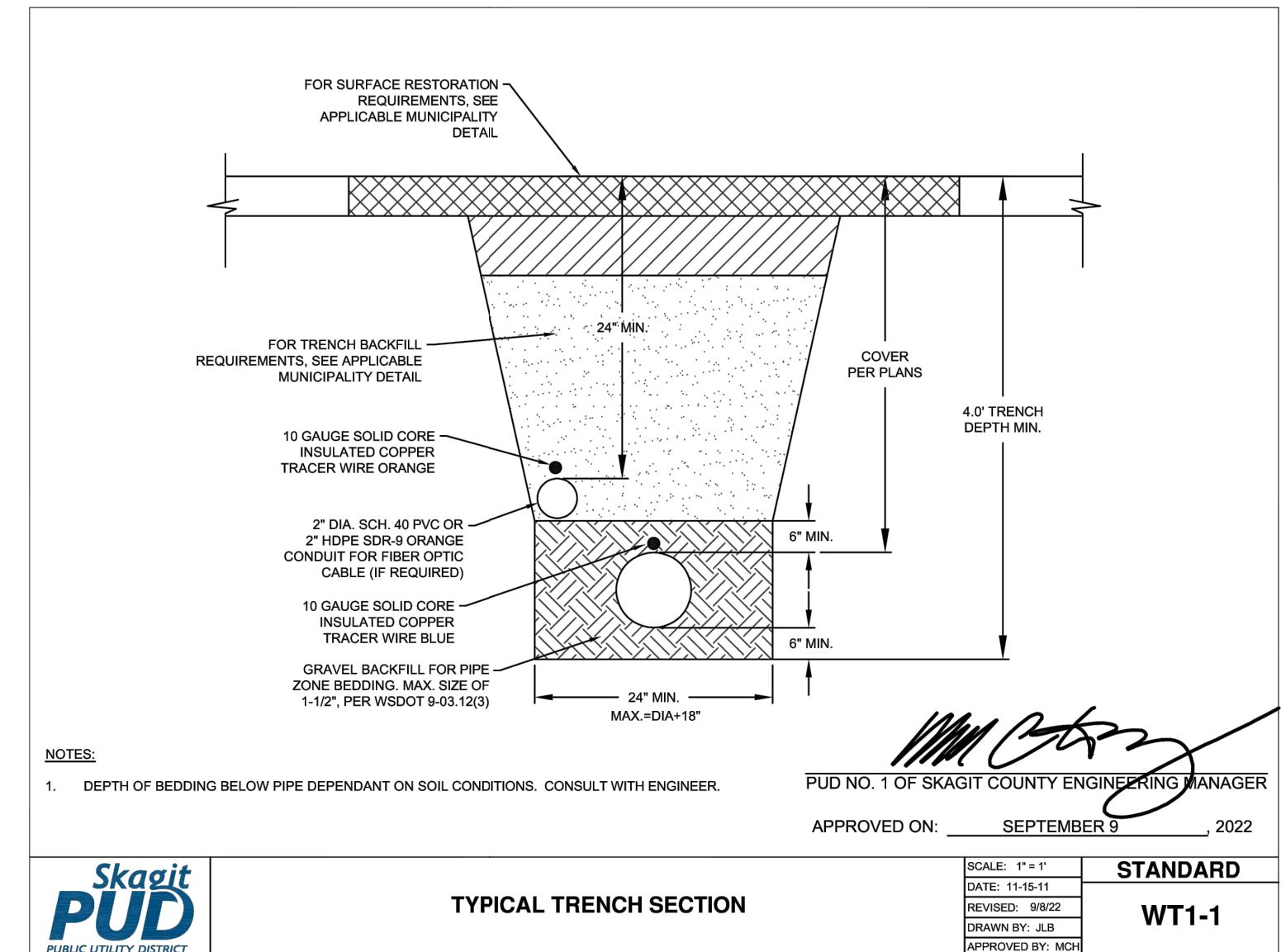
SKAGIT PUD STANDARD DETAILS
SCHEDULE A: PIPELINE RELOCATION
ON SR-20 AT OLSON CREEK
SKAGIT COUNTY, WASHINGTON

SHEET
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C-5
SHEET 7 OF 9

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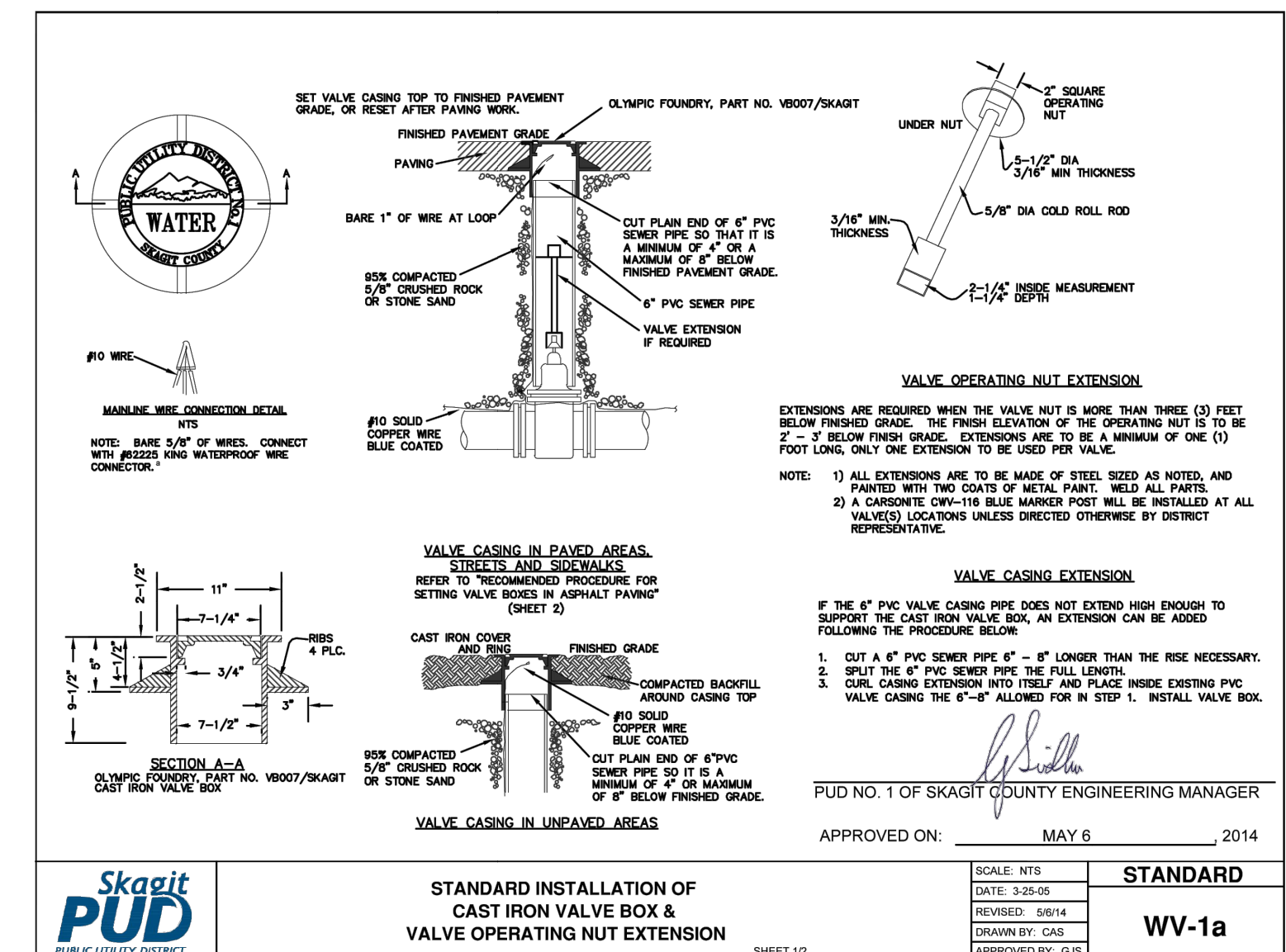


1 HORIZONTAL THRUST BLOCKING DETAILS
SCALE: TBD

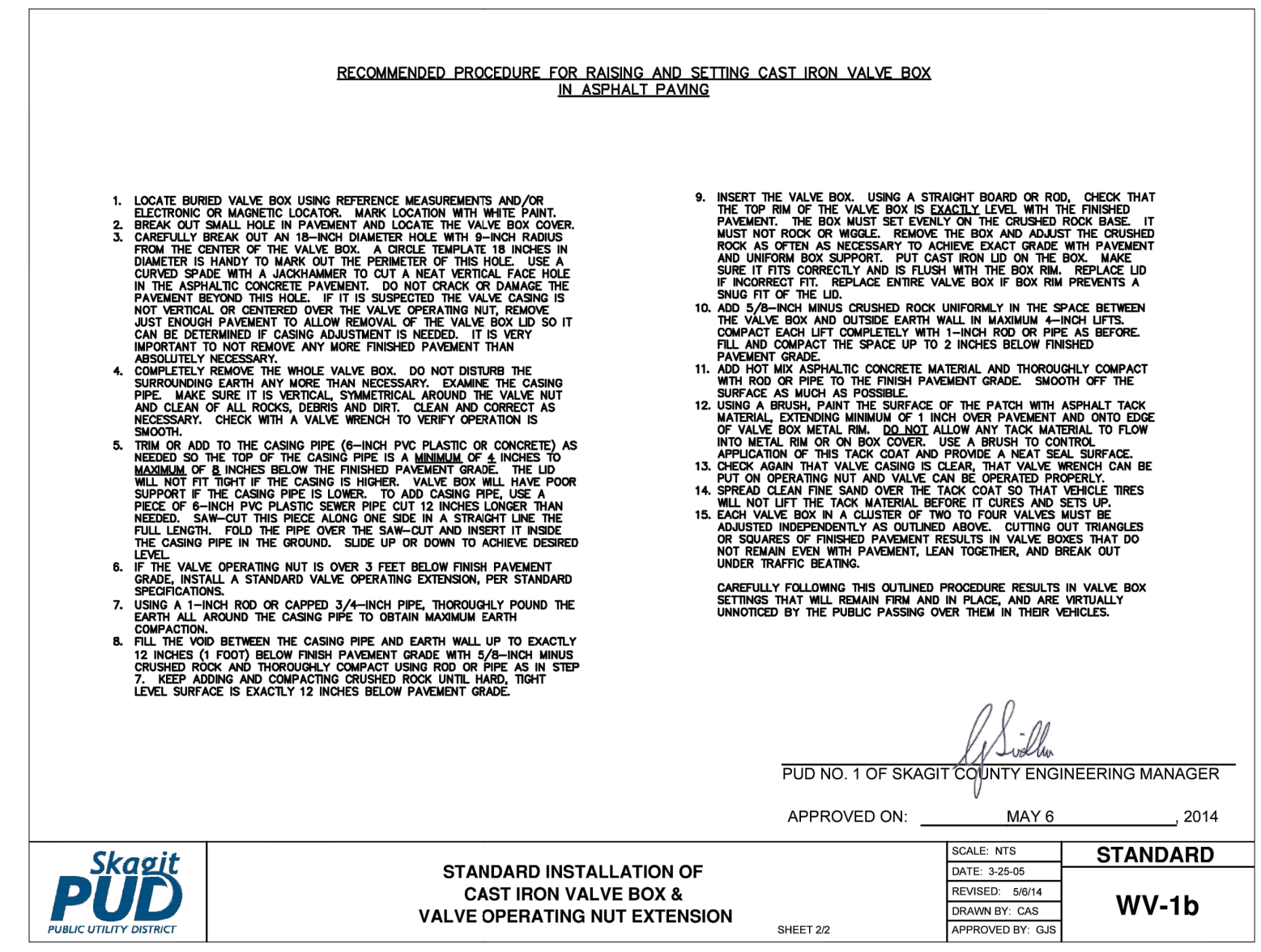


2 TYPICAL TRENCH SECTION
SCALE: TBD

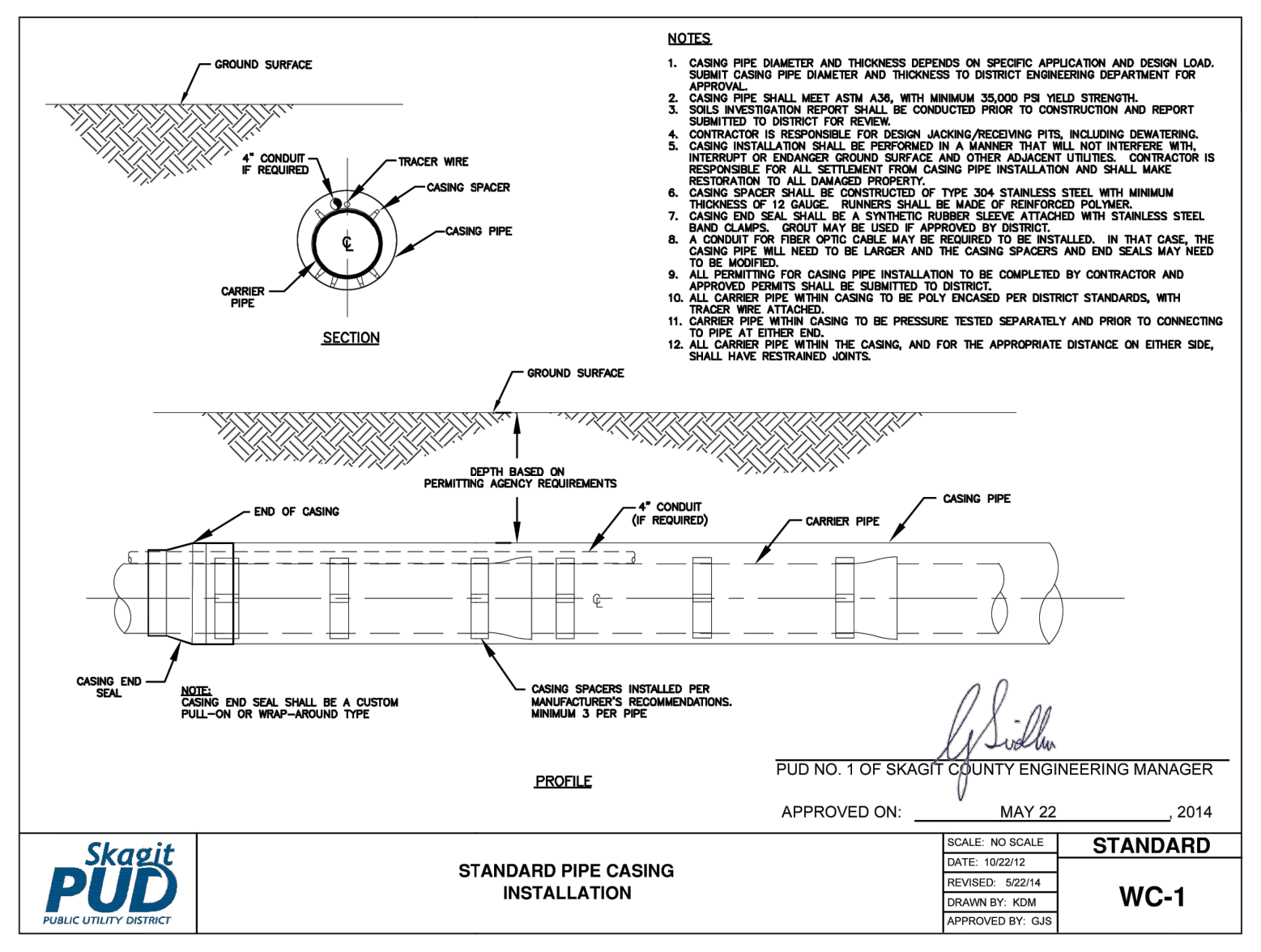
NOTE: UNLESS OTHERWISE SPECIFIED, ALL WATER PIPELINE INSTALLATIONS WITHIN THE WSDOT ROW MUST BE 60-INCH MINIMUM BELOW ADJACENT PAVEMENT ELEVATIONS FROM THE CREST OF PIPE.



3 STD INSTALLATION OF CAST IRON VALVE BOX AND VALVE OPERATING NUT EXTENSION
SCALE: TBD



4 NOTES FOR STD INSTALLATION OF CAST IRON VALVE BOX AND VALVE OPERATING NUT EXTENSION
SCALE: TBD



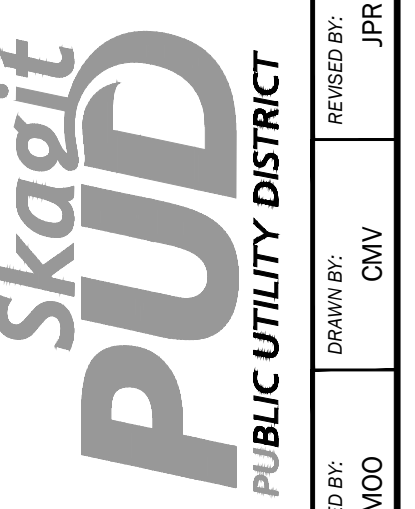
5 STD PIPE CASING INSTALLATION
SCALE: TBD

1 2 3 4 5 6



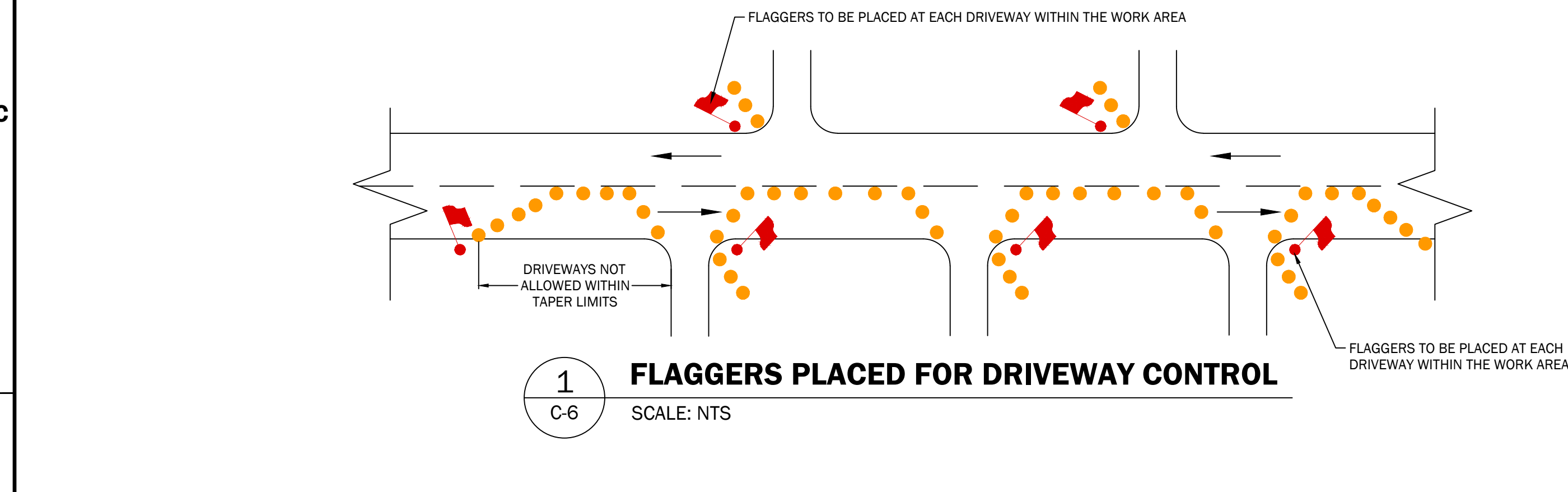
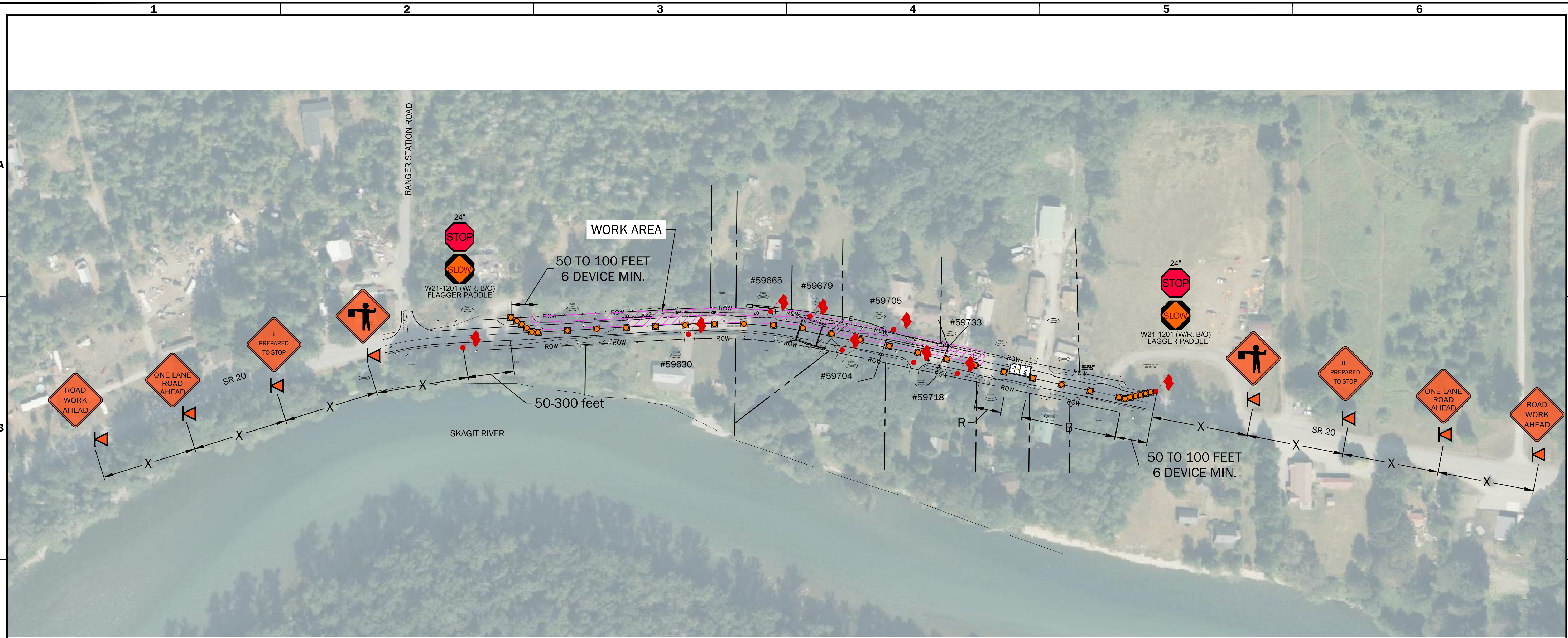
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TRAFFIC CONTROL AND CLASS A SIGNAGE PLAN
NORTH LANE CLOSURE
 SCHEDULE A: PIPELINE RELOCATION
 ON SR-20 AT OLSON CREEK
 SKAGIT COUNTY, WASHINGTON

SHEET REFERENCE NUMBER:
C-6
 SHEET 8 OF 9



1
 C-6
FLAGGERS PLACED FOR DRIVEWAY CONTROL
 SCALE: NTS

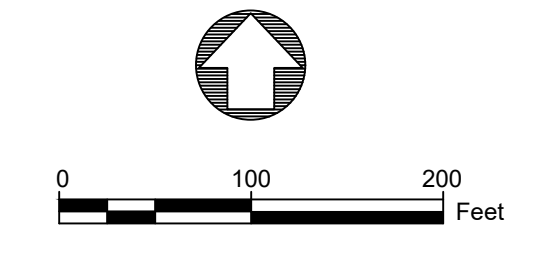
PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
 STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW. 40'-80' RECOMMENDED.

SPEED (MPH)	SIGN SPACING = X (1)			
	45	50	55	60
RURAL HIGHWAYS	60-65 MPH	800' +/-		
RURAL ROADS	45-55 MPH	500' +/-		

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP AT-GRADE INTERSECTION AND DRIVEWAYS.

SPEED (MPH)	LONGITUDINAL BUFFER SPACE = B			
	45	50	55	60
LENGTH (feet)	360	425	495	570

MPH	MAXIMUM CHANNELIZATION DEVICE SPACING (feet)	
	TAPER	TANGENT
50-65	10 to 20	80
45	10 to 20	80



LEGEND

- TRAFFIC CHANNELIZATION DEVICE (CONES OR BARRELS) SPACED 5' O.C.
- WORK ZONE
- FLAGGER
- PROTECTIVE VEHICLE (SEE TRAFFIC CONTROL NOTE 4)

24" W21-1201 (W/R, B/O) FLAGGER PADDLE

- TRAFFIC CONTROL NOTES**
- NOTHING IN THIS PLAN SHALL BE CONSTRUED AS RELIEVING THE CONTRACTOR OF THE TRAFFIC CONTROL REQUIREMENTS OF THE MOST RECENT EDITION OF THE MUTCD.
 - MAINTAIN SAFE ACCESS FOR UTILITY, POSTAL, GARBAGE, AND RECYCLING SERVICE.
 - MAINTAIN SAFE ACCESS FOR RESIDENTS.
 - IF LONGITUDINAL BUFFER SPACE REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLES (PV) TO A TRANSPORTABLE ATTENUATOR (TA). ADDITIONAL PV/TS MAY BE ADDED AT SEPARATE WORK CREWS

- DRIVEWAY ACCESS NOTES**
- THE CONTRACTOR IS NOT PERMITTED TO CONTINUOUSLY OBSTRUCT ACCESS FOR PROLONGED PERIODS, ESPECIALLY TO 59630; 59665; 59679; 59704; 59705; 59718; 59733 STATE RTE 20.
 - THE CONTRACTOR SHALL EITHER (1) MAKE PROVISIONS IN THEIR OPERATIONS TO TIMELY RELOCATE EQUIPMENT AND MATERIALS TO FACILITATE VEHICULAR INGRESS/EGRESS AS REQUESTED BY THE AFFECTED HOMEOWNERS, OR (2) MAINTAIN CONTINUOUS 10' CLEAR ACCESS WIDTH FOR SAFE INGRESS/EGRESS THROUGHOUT CONSTRUCTION.
 - THE CONTRACTOR MUST PROVIDE MINIMUM 48 HOURS ADVANCE NOTICE TO CITY AND AFFECTED HOMEOWNERS PRIOR TO OBSTRUCTING ANY DRIVEWAYS

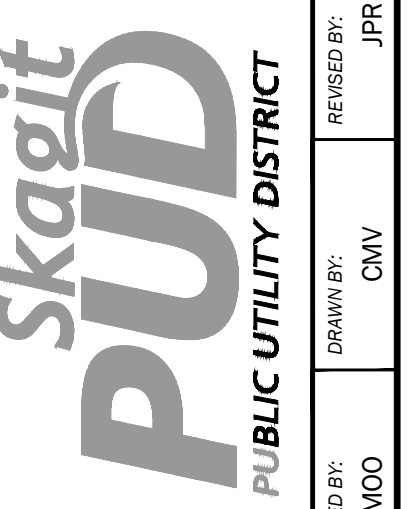
2
 C-6
SIGNAGE DETAILS
 SCALE: NTS

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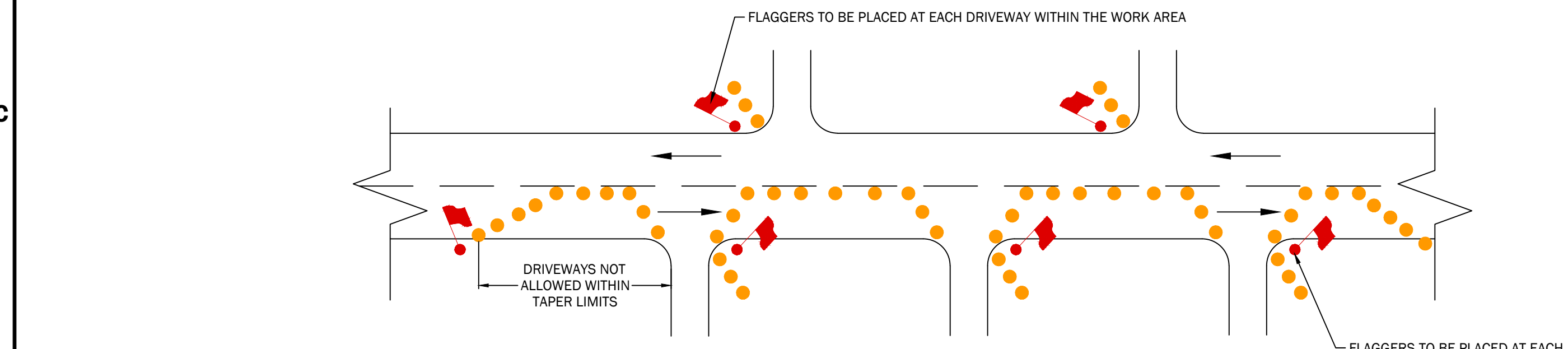
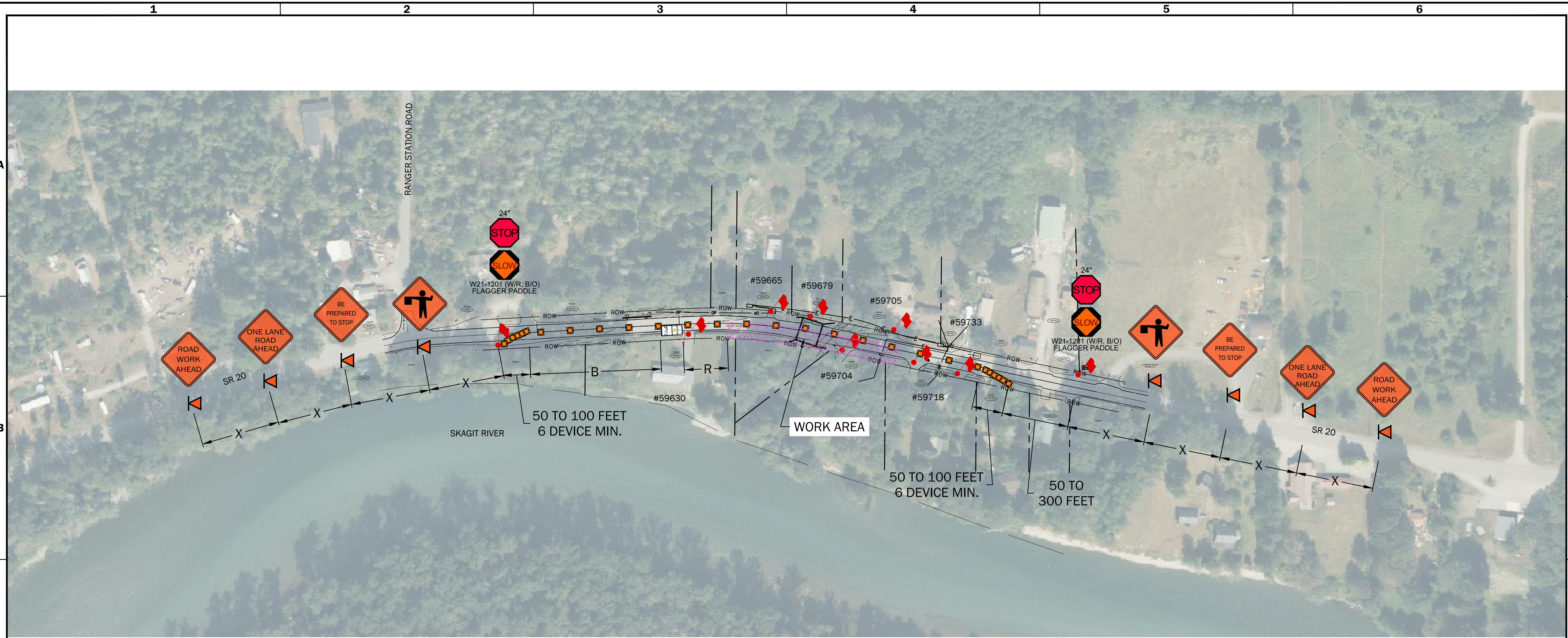
1/4/2024

REV.	DATE	DESCRIPTION
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TRAFFIC CONTROL AND CLASS A SIGNAGE PLAN
SOUTH LANE CLOSURE
 SCHEDULE A: PIPELINE RELOCATION ON SR-20 AT OLSON CREEK
 SKAGIT COUNTY, WASHINGTON

SHEET REFERENCE NUMBER:
C-7
 SHEET 9 OF 9



1
 C-6
FLAGGERS PLACED FOR DRIVEWAY CONTROL
 SCALE: NTS

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
 STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW. 40'-80' RECOMMENDED.

SIGN SPACING = X (1)			
RURAL HIGHWAYS	60-65 MPH	800' +/-	
RURAL ROADS	45-55 MPH	500' +/-	
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP AT GRADE INTERSECTION AND DRIVEWAYS.			

LONGITUDINAL BUFFER SPACE = B					
SPEED (MPH)	45	50	55	60	65
LENGTH (feet)	360	425	495	570	645

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-65	10 to 20	80
45	10 to 20	80

LEGEND

- TRAFFIC CHANNELIZATION DEVICE (CONES OR BARRELS) SPACED 5' O.C.
- WORK ZONE
- FLAGGER
- PROTECTIVE VEHICLE (SEE TRAFFIC CONTROL NOTE 4)

2
 C-6
SIGNAGE DETAILS
 SCALE: NTS

- TRAFFIC CONTROL NOTES**
- NOTHING IN THIS PLAN SHALL BE CONSTRUED AS RELIEVING THE CONTRACTOR OF THE TRAFFIC CONTROL REQUIREMENTS OF THE MOST RECENT EDITION OF THE MUTCD.
 - MAINTAIN SAFE ACCESS FOR UTILITY, POSTAL, GARBAGE, AND RECYCLING SERVICE.
 - MAINTAIN SAFE ACCESS FOR RESIDENTS.
 - IF LONGITUDINAL BUFFER SPACE REDUCED FROM DISTANCES LISTED IN TABLE, UPGRADE PROTECTIVE VEHICLES (PV) TO A TRANSPORTABLE ATTENUATOR (TA). ADDITIONAL PVTs MAY BE ADDED AT SEPARATE WORK CREWS

- DRIVEWAY ACCESS NOTES**
- THE CONTRACTOR IS NOT PERMITTED TO CONTINUOUSLY OBSTRUCT ACCESS FOR PROLONGED PERIODS, ESPECIALLY TO 59630; 59665; 59679; 59704; 59705; 59718; 59733 STATE RTE 20.
 - THE CONTRACTOR SHALL EITHER (1) MAKE PROVISIONS IN THEIR OPERATIONS TO TIMELY RELOCATE EQUIPMENT AND MATERIALS TO FACILITATE VEHICULAR INGRESS/EGRESS AS REQUESTED BY THE AFFECTED HOMEOWNERS, OR (2) MAINTAIN CONTINUOUS 10' CLEAR ACCESS WIDTH FOR SAFE INGRESS/EGRESS THROUGHOUT CONSTRUCTION.
 - THE CONTRACTOR MUST PROVIDE MINIMUM 48 HOURS ADVANCE NOTICE TO CITY AND AFFECTED HOMEOWNERS PRIOR TO OBSTRUCTING ANY DRIVEWAYS

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