NORTHSHORE UTILITY DISTRICT

King County, Washington

CONTRACT 2021-02
PRIVATE WATER SERVICE LINE PROJECT #76

JUNE 2021

BID SET



MATT BREYSSE
D. BRUCE GARDINER
VACANT POSTION
THOMAS D. MORTIMER
TRUDY C. ROLLA
ALAN G. NELSON

President of the Board Secretary of the Board

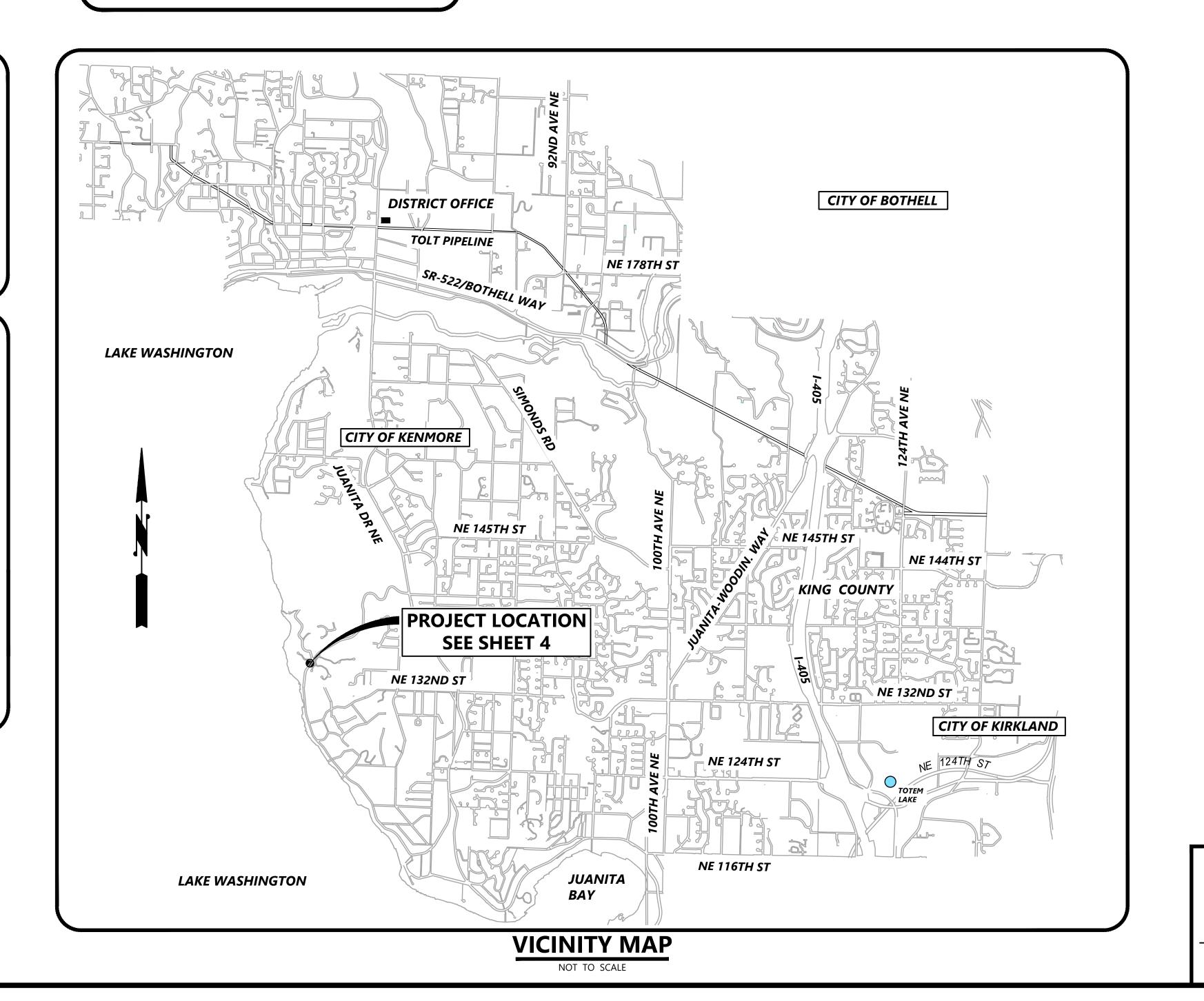
Commissioner Commissioner

Commissioner

General Manager

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
1	COVER
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C1922

SHEET
1 OF 13

M:\Nshore\20465.00 C1922 Private Water Line Replacement\01 Design\Planset\General\Cover.dwa

LEGEND

EXISTING FL 8" DI 8" PVC	PROPOSED	DESCRIPTION PROPERTY LINE RIGHT OF WAY LINE EASEMENT DITCH CENTERLINE SIDE SLOPE WATER LINE SANITARY SEWER LINE STORM DRAIN LINE STORM DRAIN CULVERT SWALE OR DITCH GAS LINE UNDERGROUND POWER LINE OVERHEAD POWER LINE TELEPHONE LINE CABLE LINE FIBER OPTIC LINE WIRE FENCE
8° DI W		RIGHT OF WAY LINE EASEMENT DITCH CENTERLINE SIDE SLOPE WATER LINE SANITARY SEWER LINE STORM DRAIN LINE STORM DRAIN CULVERT SWALE OR DITCH GAS LINE UNDERGROUND POWER LINE OVERHEAD POWER LINE TELEPHONE LINE CABLE LINE FIBER OPTIC LINE
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12" CONCRETE		STORM DRAIN CULVERT SWALE OR DITCH GAS LINE UNDERGROUND POWER LINE OVERHEAD POWER LINE TELEPHONE LINE CABLE LINE FIBER OPTIC LINE
		SWALE OR DITCH GAS LINE UNDERGROUND POWER LINE OVERHEAD POWER LINE TELEPHONE LINE CABLE LINE FIBER OPTIC LINE
		GAS LINE UNDERGROUND POWER LINE OVERHEAD POWER LINE TELEPHONE LINE CABLE LINE FIBER OPTIC LINE
		GAS LINE UNDERGROUND POWER LINE OVERHEAD POWER LINE TELEPHONE LINE CABLE LINE FIBER OPTIC LINE
		UNDERGROUND POWER LINE OVERHEAD POWER LINE TELEPHONE LINE CABLE LINE FIBER OPTIC LINE
		OVERHEAD POWER LINE TELEPHONE LINE CABLE LINE FIBER OPTIC LINE
		TELEPHONE LINE CABLE LINE FIBER OPTIC LINE
		CABLE LINE FIBER OPTIC LINE
		FIBER OPTIC LINE
		WIRE FENCE
——————————————————————————————————————		
B		WOOD FENCE
		CHAIN LINK FENCE
-•	•	WATER METER
·		FIRE HYDRANT
M	IDI .	WATER VALVE
	IIQ) ⁺	WET TAP ASSEMBLY
	<u> </u>	BLOW-OFF ASSEMBLY
		THRUST BLOCK
0		CLEAN OUT
0		SANITARY MANHOLE
		STORM DRAIN MANHOLE
		STORM DRAIN CATCH BASIN
(D)		GAS VALVE
-0-		POWER POLE
(GUY ANCHOR
♦ —X		LIGHT POLE
(C = >		SIGNAL POLE
Р		ELECTRICAL VAULT
×		ELECTRICAL HANDHOLE
•		COMMUNICATIONS VAULT
		TELEPHONE HANDHOLE
<u>.</u>		SIGN
\oplus		MONUMENT
		ROCKERY
		ROCK WALL
		MAIL BOX(ES)
		CONIFER TREE
8		DECORATIVE TREE
		DECIDUOUS TREE
⊜		SHRUB
		RETAINING WALL
4 · · · · · · · · · · · · · · · · · · ·		CEMENT CONCRETE PAVEMENT
		CEMENT CONCRETE CURB
		ASPHALT CONCRETE PAVEMENT
		GRAVEL
р		GRASS
		SAWCUT LINE
		- FILTER FABRIC FENCE
		PROTECTIVE TREE SENGING
		PROTECTIVE TREE FENCING

GENERAL NOTES:

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CURRENT NORTHSHORE UTILITY DISTRICT STANDARD SPECIFICATIONS AND STANDARD DETAILS.
- 2. THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON THE PLANS FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF UTILITY LOCATIONS SHOWN, FOR THE PROTECTION AND REPAIR OF DAMAGED UTILITIES AND FOR THE DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE LOCATED, BY THE APPROPRIATE UTILITY DISTRICTS OR COMPANIES, ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. FOR UTILITY LOCATES IN KING COUNTY, CALL 1-800-424-5555 PRIOR TO DIGGING.
- 3. A PRE-CONSTRUCTION CONFERENCE WILL BE HELD AT THE DISTRICT OFFICE PRIOR TO START OF CONSTRUCTION.
- 4. THE CONTRACTOR SHALL NOTIFY NORTHSHORE UTILITY DISTRICT A MINIMUM OF FIVE (5) DAYS IN ADVANCE OF BEGINNING CONSTRUCTION. CONSTRUCTION SHALL NOT BEGIN WITHOUT PRIOR WRITTEN NOTICE TO PROCEED BY THE DISTRICT.
- 5. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES OR MAKE ANY CONNECTIONS TO THE EXISTING WATER SYSTEM WITHOUT PRIOR APPROVAL FROM THE DISTRICT.

SURVEY CONTROL DATA

HORIZONTAL DATUM:

WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE NAD83(91), US FEET UTILIZING RTK GPS FIELD PROCEDURES

<u>VERTICAL DATUM:</u> NAVD88, US FEET AS PRESCRIBED BY NORTHSHORE UTILITY DISTRICT.

TOPOGRAPHIC MAPPING:

THE MAP SHOWN HEREON IS THE RESULT OF A TOPOGRAPHIC SURVEY BY DUANE HARTMAN & ASSOCIATES, INC. (DHA) COMPLETED IN NOVEMBER 2019. DHA ASSUMES NO LIABILITY, BEYOND SAID DATE. FOR ANY FUTURE SURFACE FEATURE MODIFICATIONS OR CONSTRUCTION ACTIVITIES THAT MAY OCCUR WITHIN OR ADJOINING THE PERIMETER OF THIS SURVEY. CONTACT DHA (425) 483-5355 FOR SITE UPDATES AND VERIFICATIONS.

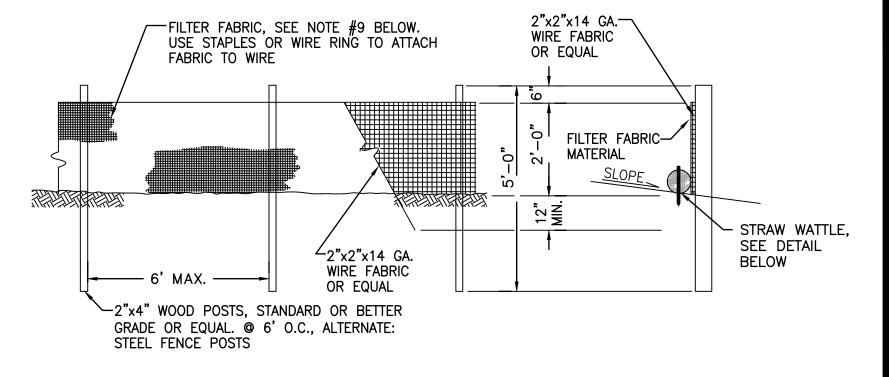
CONTOUR INTERVAL: ONE FOOT (1') CONTOURS

BENCHMARKS:

POINT TABLE					
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING	
118	DHA 1653-118	19.9700	266354.2680	1289042.0080	
152	DHA 2282-152	31.2400	266357.4920	1289239.9300	
119	DHA 119	43.5900	266346.2280	1289316.5760	
151	DHA 2282-151	46.0700	266341.0270	1289366.8680	
200	DHA 2969-1	51.4800	266364.9220	1289456.1450	
201	DHA 2969-2	60.7300	266365.0580	1289585.1810	
202	DHA 2693-3	67.9000	266353.4880	1289673.7610	
203	DHA 2969-4	81.9200	266296.2090	1289747.2490	
204	DHA 2969-5	97.6800	266371.8110	1289843.1210	

TEMPORARY EROSION AND SEDIMENTATION CONTROL NOTES

- 1. THE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) FACILITIES SHALL BE IMPLEMENTED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 2. THE STORM DRAIN INLET PROTECTION DEVICE SHALL BE SILT SACK OR EQUAL. ALL CATCH BASINS WITHIN THE VICINITY OF THE CONSTRUCTION SHALL HAVE INLET PROTECTION MEASURES.
- 3. CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE CHANNELS, CULVERTS, SWALES AND STRUCTURES. WHENEVER EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE SUITABLE MEANS FOR DIVERTING AND MAINTAINING ALL FLOWS DURING CONSTRUCTION IN THAT AREA AT ITS EXPENSE. AFTER CONSTRUCTION HAS BEEN COMPLETED, ALL DRAINAGE CHANNELS, CULVERTS, SWALES AND STRUCTURES DISTURBED SHALL BE RETURNED TO THEIR ORIGINAL CONDITIONS.
- 4. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, TESC FACILITIES SHALL BE MAINTAINED AND UPGRADED AS NECESSARY BY THE CONTRACTOR.
- 5. CONTRACTOR SHALL INSPECT THE TESC FACILITIES AT THE END OF EACH WORKING DAY TO ASSURE ITSELF THAT THEY ARE IN GOOD CONDITIONS. IF TESC FACILITIES REQUIRE REPAIR/MAINTENANCE, IT SHALL BE PERFORMED PRIOR TO THE END OF THE WORKING DAY. ALL DISTURBED AREAS SHALL BE PROMPTLY AND THOROUGHLY STABILIZED AGAINST EROSION DURING PERIODS OF WET WEATHER WHEN WORK IS NOT BEING PERFORMED AT THE SITE.
- 6. ALL UNSUITABLE OR SURPLUS EXCAVATED OR CLEARED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED, LEGAL FILL SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ACCEPTABLE DISPOSAL SITES AND ASSURE THAT ALL SURPLUS MATERIAL IS DISPOSED OF IN SAME.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL APPROPRIATE MEASURES NEEDED (STREET SWEEPERS, WATER TRUCKS, ETC.) TO KEEP STREETS AND ROADS USED AS HAUL ROUTES FOR EXPORT OR IMPORT OF MATERIAL CLEAN AND FREE FROM DEBRIS. MUD. ETC.. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

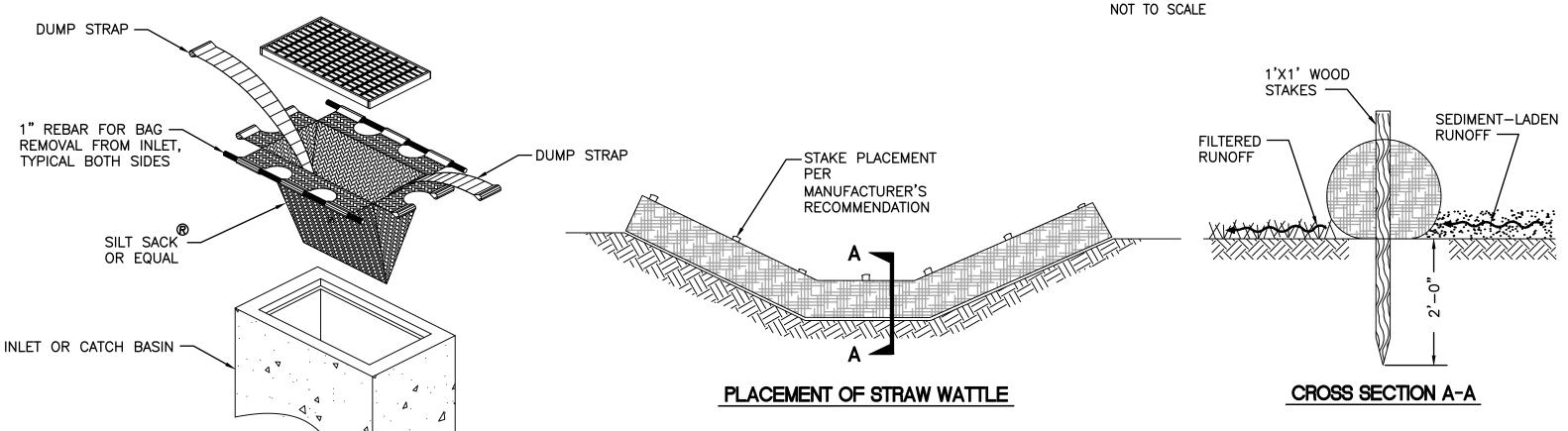


NOTES

- 1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
- 2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG. TIE WIRE OR HOG RINGS.
- 4. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED ACROSS THE GROUND, UPSLOPE AND ADJACENT TO THE WOOD POST. THE FABRIC SHALL NOT EXTEND MORE THAN 30 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE 3 APPLYING.
- 6. FABRIC SHALL BE SECURED AT THE BASE BY PEA-ROCK FILLED SANDBAGS OR STRAW WATTLES PLACED END TO END.
- FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 9. FILTER FABRIC SHALL BE PER CURRENT GEOTEXTILE FABRIC STANDARDS FOR SILT FENCE IN THE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.

-2 EACH DUMP STRAPS EXPANSION RESTRAINT (1/4" NYLON ROPE, 2" FLAT WASHERS) INSTALLATION DETAIL **BAG DETAIL**

HIGH VISIBILITY FILTER FABRIC FENCE



STORM DRAIN INLET PROTECTION

STRAW WATTLE DAM NOT TO SCALE

NOT TO SCALE

ВҮ	APPD	REVISION	DATE	WAF
				VVAF

BID SET

RNING IF THIS BAR DOES NOT MEASURE 1 THEN DRAWING IS NOT TO SCALE

Gray & Osborne, In

DESIGNED **DRAWN CHECKED APPROVAL** JUN 2021 DATE



NORTHSHORE UTILITY DISTRICT

6830 NE 185th St. Kenmore, WA 98028-2684

P.O. Box 82489 Kenmore, WA 98028-2684

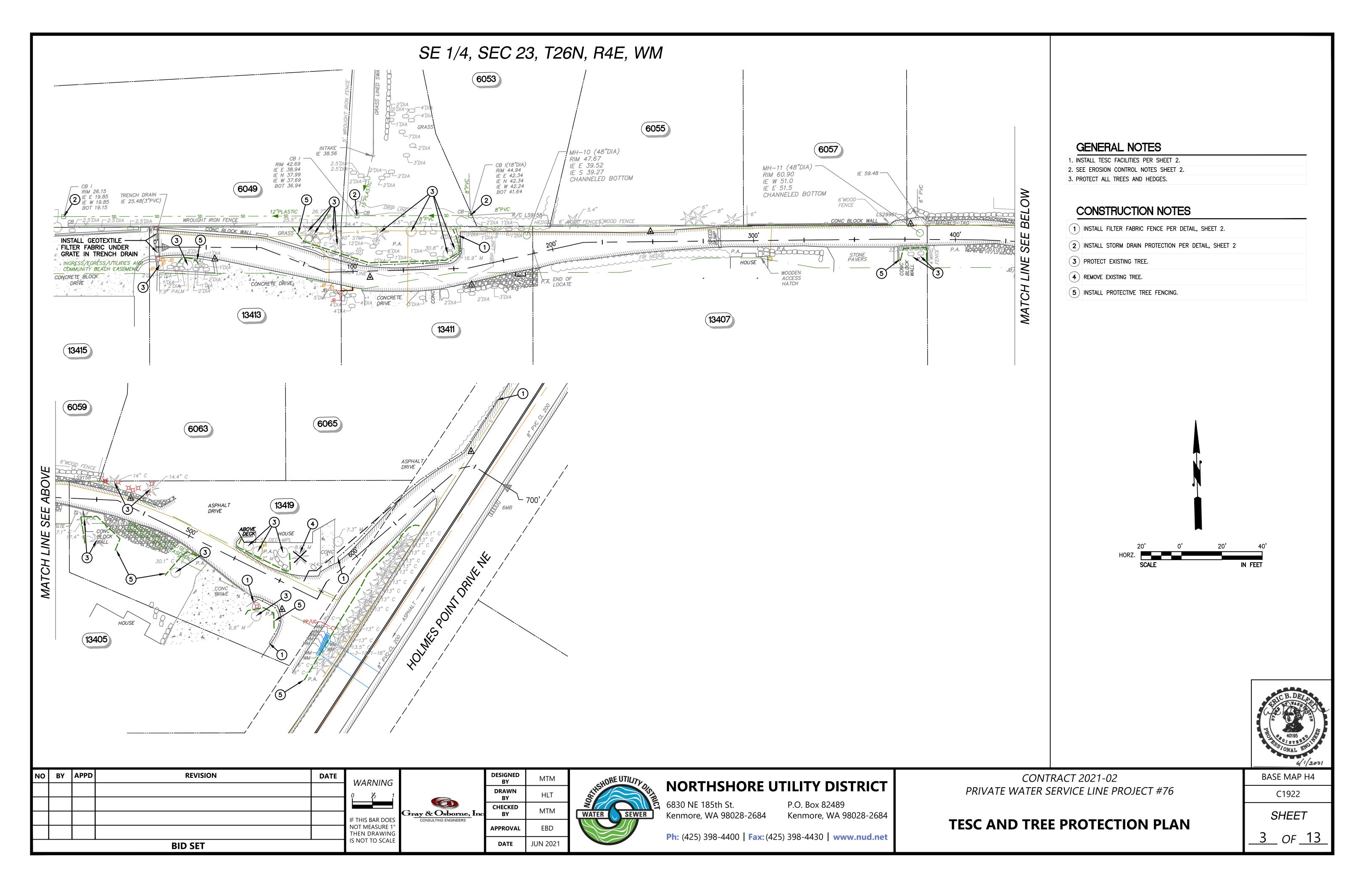
Ph: (425) 398-4400 | Fax: (425) 398-4430 | www.nud.net

CONTRACT 2021-02 PRIVATE WATER SERVICE LINE PROJECT #76

TESC DETAILS AND NOTES

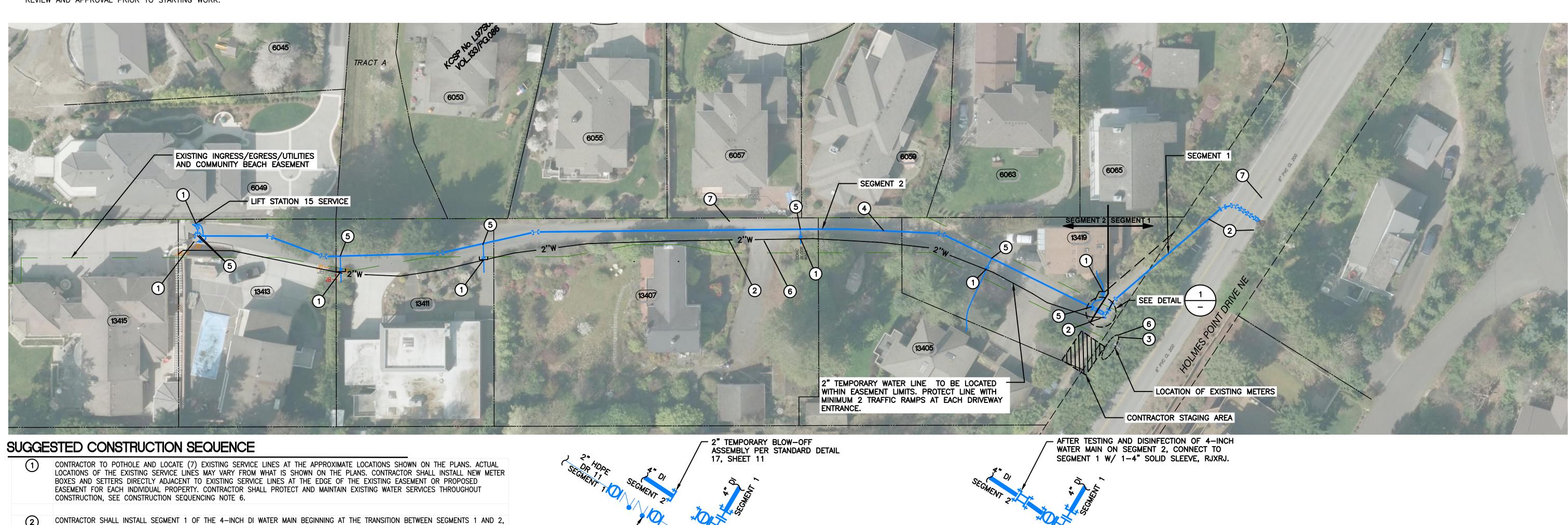
BASE MAP H4 C1922

> SHEET <u>2</u> of <u>13</u>



GENERAL NOTES

- 1. PROPERTIES AT 13415, 13413, 13411, 13407, 13405 AND 13419 HOLMES POINT DRIVE AND THE DISTRICT'S SANITARY SEWER LIFT STATION 15 ARE CONNECTED TO THE DISTRICT'S DISTRIBUTION SYSTEM VIA PRIVATELY OWNED LONG WATER SERVICE LINES INSTALLED IN THE EXISTING INGRESS/EGRESS/UTILITIES AND COMMUNITY BEACH EASEMENT. THE EXISTING WATER METERS ARE LOCATED ON HOLMES POINT DRIVE.
- 2. INSTALL TESC FACILITIES PRIOR TO CONSTRUCTION. SEE TESC DETAILS AND NOTES SHEET 2.
- 3. CONTRACTOR TO SUBMIT TEMPORARY SERVICE PLAN FOR DISTRICT REVIEW AND APPROVAL PRIOR TO STARTING WORK.



2" TEMPORARY BLOW-OFF

ASSEMBLY PER STANDARD

DETAIL 17, SHEET 11

- CONTRACTOR SHALL INSTALL SEGMENT 1 OF THE 4-INCH DI WATER MAIN BEGINNING AT THE TRANSITION BETWEEN SEGMENTS 1 AND 2, EAST TO THE CONNECTION POINT WITHIN HOLMES POINT DRIVE NE. ADDITIONALLY, THE CONTRACTOR SHALL INSTALL THE 2-INCH HDPE TEMPORARY WATER SERVICE AND CONNECT TO THE METER BOXES INSTALLED IN CONSTRUCTION SEQUENCING NOTE 1. CONTRACTOR SHALL TEST, DISINFECT, AND MAKE CONNECTION TO THE EXISTING WATER SYSTEM WITHIN HOLMES POINT DRIVE NE AS SHOWN ON SHEET 6.
- CONTRACTOR SHALL RELOCATE EXISTING METERS ON HOLMES POINT DRIVE TO NEW METER BOXES UNDER THE SUPERVISION OF THE DISTRICT. INSTALL NEW WATER SERVICES FROM THE CUSTOMER SIDE OF THE NEW METER BOXES TO EACH INDIVIDUAL HOME. CAP BOTH ENDS OF EXISTING WATER SERVICE AND ANY OTHER OPEN ENDS OF THE EXISTING SERVICE WHERE IT HAS BEEN CUT OR BROKEN.
- CONSTRUCT PROPOSED 4-INCH DI WATER MAIN WITHIN SEGMENT 2, AS SHOWN ON THE PLANS. TEST, DISINFECT, AND CONNECT TO NEWLY CONSTRUCTED 4-INCH DI WATER MAIN (SEGMENT 1) AS SHOWN ON THE FINAL CONNECTION DETAIL 1, THIS SHEET.
- CONSTRUCT PERMANENT SERVICE LINES FROM THE NEWLY CONSTRUCTED 4—INCH DI WATER MAIN TO THE NEW METER BOXES. DISCONNECT TEMPORARY WATER SERVICE AND SWAP OVER TO PERMANENT SERVICE.

		6	CONTRACTOR SHALL REMOVE 2—INCH TEMPORARY WATER SERVICE, REMOVE AN PRIVATE DRIVE, AND ABANDON—IN—PLACE THE EXISTING WATER SERVICE LINES. CORP STOP ON 8—INCH MAIN ON HOLMES POINT DRIVE AND CLOSE.			
		7	CONTRACTOR SHALL COMPLETE SITE RESTORATION AS SHOWN ON SHEET 9.			
NO	BY	APPD	REVISION	DATE	WARNING	
					$0 \frac{1}{2}$	
						Gray & Osborn
					IF THIS BAR DOES NOT MEASURE 1"	CONSULTING ENGINEER
					THEN DRAWING IS NOT TO SCALE	
			BID SET			1

	DESIGNED BY	MTM
	DRAWN BY	HLT
Gr <u>ay & Osborne,</u> Inc	CHECKED BY	MTM
CONSULTING ENGINEERS	APPROVAL	EBD
	DATE	JUN 202

2" DOUBLE CHECK -

VALVE ASSEMBLY.

SEE NOTE 1.



TEMPORARY CONNECTION

1. DOUBLE CHECK VALVE ASSEMBLY SHALL BE LISTED ON THE MOST CURRENT COPY OF

CALIFORNIA.

"ACCEPTED CROSS CONNECTION CONTROL"

PUBLISHED BY THE UNIVERSITY OF SOUTHERN

NORTHSHORE UTILITY DISTRICT

CONNECTION DETAILS

6830 NE 185th St. P.O. Box 82489 Kenmore, WA 98028-2684 Kenmore, WA 98028-2684

NOT TO SCALE

Ph: (425) 398-4400 | Fax: (425) 398-4430 | www.nud.net

CONTRACT 2021-02
PRIVATE WATER SERVICE LINE PROJECT #76

in feet

SCALE

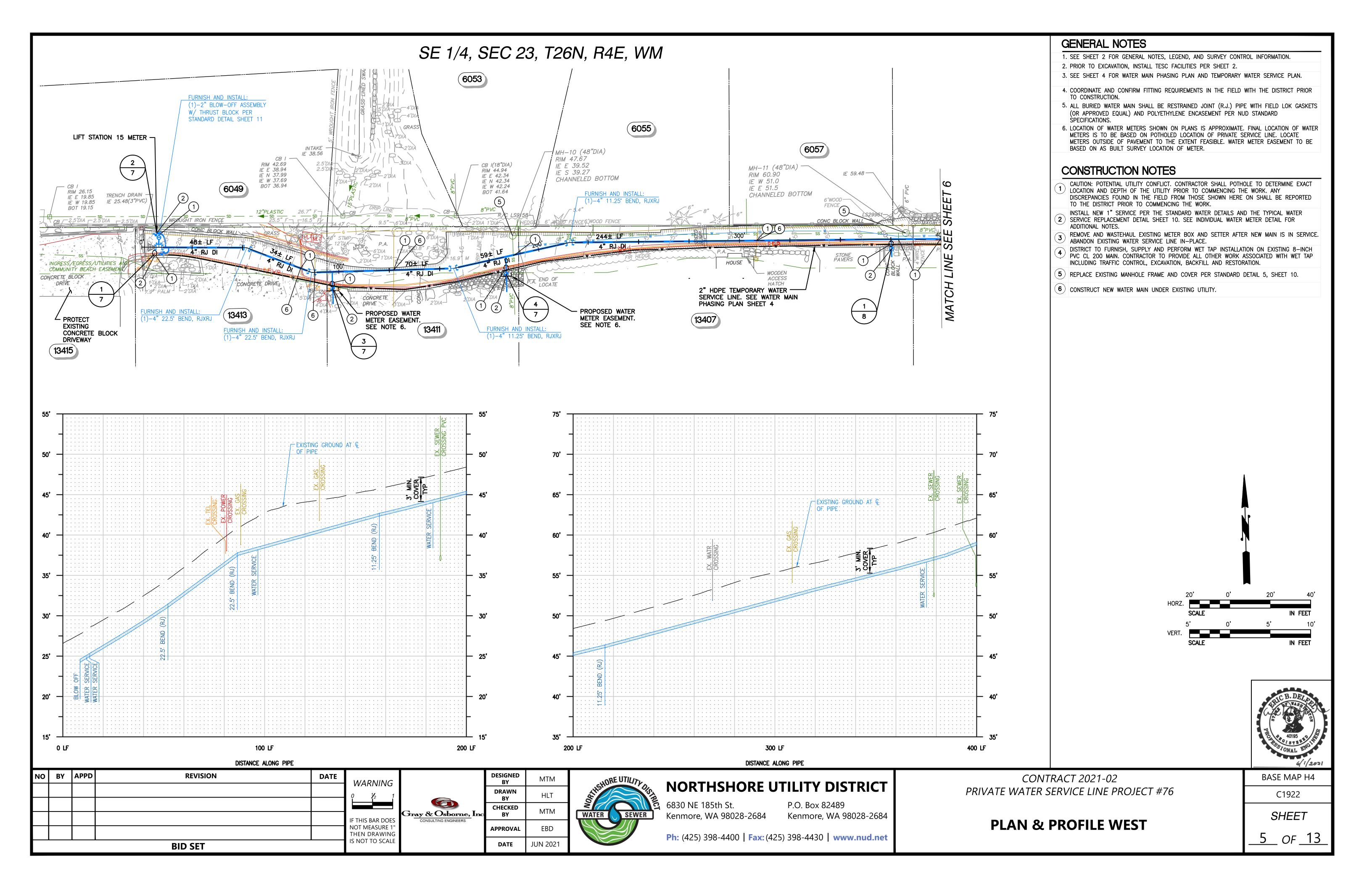
4" BLIND FLANGE

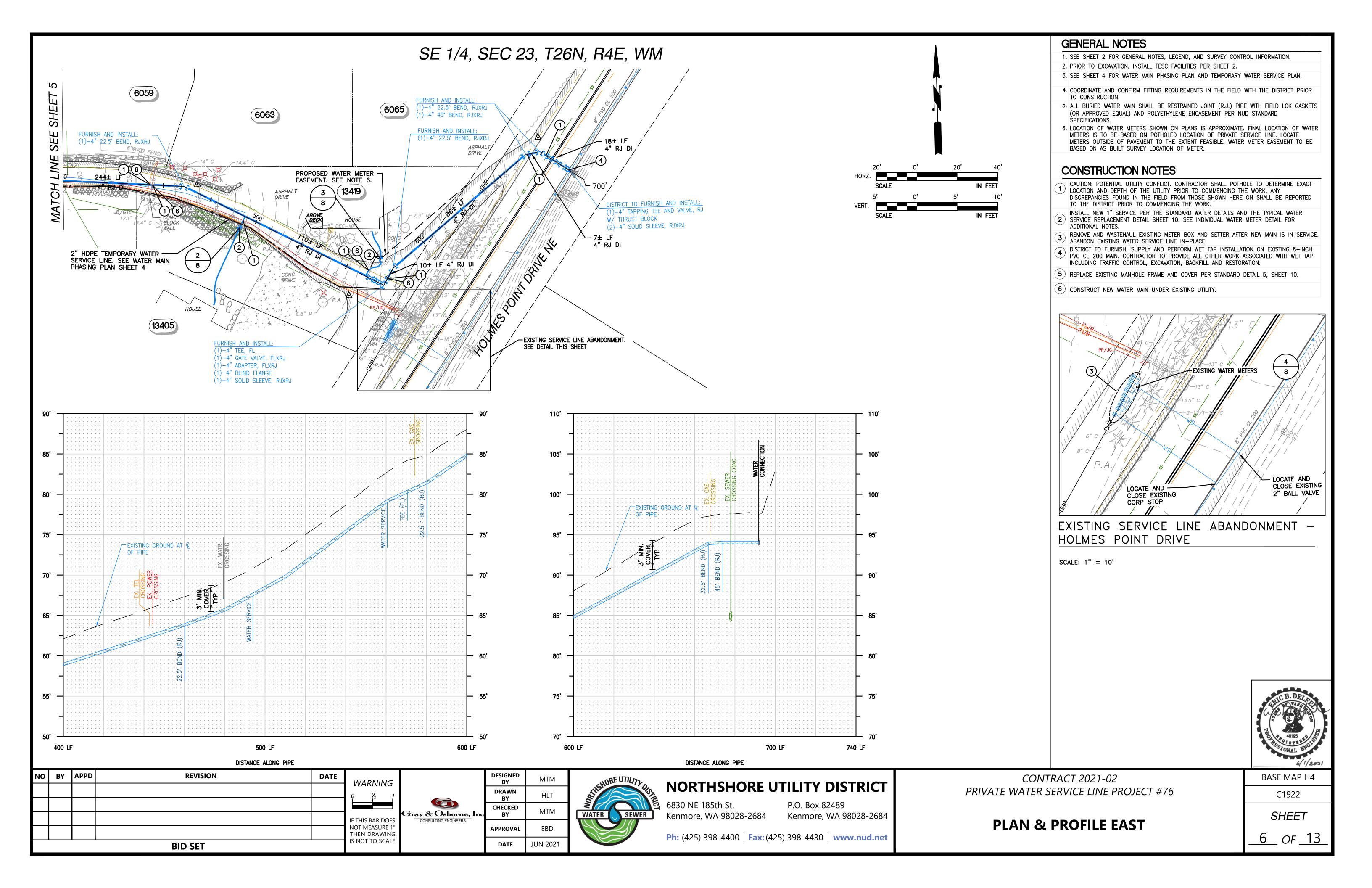
FINAL CONNECTION

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PROPOSED BLOW-OFF -PROPOSED 4" D.I. WATER -ASSEMBLY. SEE DETAIL MAIN. SEE SHEET 5. 10, SHEET 11. - LIFT STATION 15 GATE LIGHT POST SERVICE. SEE DETAIL 2. PROTECT EXISTING CEMENT CONCRETE DRIVEWAY AND TRENCH DRAIN EXISTING CONCRETE DRIVEWAY LIGHT POST PROPOSED TEMPORARY 2" HDPE WATER SERVICE LINE, SEE SHEET 4. APPROXIMATE LOCATION OF EXISTING PRIVATE WATER SERVICE LINE. SIZE AND EXISTIN TYPE UNKNOWN. WALL PROTECT EXISTING TREE EXISTING **EASEMENT PLAN**

13415 METER DETAIL

PROPOSED 4" D.I. WATER

2" HDPE WATER SERVICE

CONCRETE

DRIVEWAY

MAIN. SEE SHEET 5.

LINE. SEE SHEET 4.

APPROXIMATE LOCATION OF

EXISTING PRIVATE WATER

SERVICE LINE. SIZE AND

PROPOSED'

SEASEMENT.

TYPE UNKNOWN.

UTILITY

PROPOSED TEMPORARY

SCALE: 1"=4'-0"

- EXISTING

CONCRETE DRIVEWAY

PROPERTY LINE.

CONSTRUCTION.

CONFIRM PRIOR TO

EASEMENT

PHOTOGRAPH

SE 1/4, SEC 23, T26N, R4E, WM

CONSTRUCTION NOTES

- 1) REMOVE AND RESTORE BLOCK WALL. RESTORE AREA WITH LANDSCAPE BARK AND SHRUBS AS REQUIRED. SEE GENERAL NOTES 1 AND 2.
- POTHOLE TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES PRIOR TO COMMENCING WORK. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HERE SHALL BE REPORTED TO THE DISTRICT PRIOR TO COMMENCING THE WORK.
- PROPOSED WATER METER LOCATION. SET NEW 1" METER BOX AND SETTER PER DETAIL 4, SHEET 10.
- 4 CONNECT NEW WATER SERVICE TO EXISTING WATER SERVICE PER DETAIL 9, SHEET 10.
- (5) CONNECT METER SETTER TO TEMPORARY WATER MAIN AND THEN SALVAGE EXISTING METER FROM BOX NEAR HOLMES POINT DRIVE AND SET IN NEW METER LOCATION TO PROVIDE TEMPORARY WATER SERVICE DURING WATER MAIN INSTALLATION. CAP BOTH ENDS OF EXISTING WATER SERVICE AND ANY OTHER OPEN ENDS OF THE EXISTING SERVICE WHERE IT HAS BEEN CUT OR BROKEN.
- AFTER THE WATER MAIN INSTALLATION IS COMPLETE, INSTALL WATER SERVICE LINE FROM NEW WATER MAIN TO NEW METER SETTER PER DETAIL 4, SHEET 10.

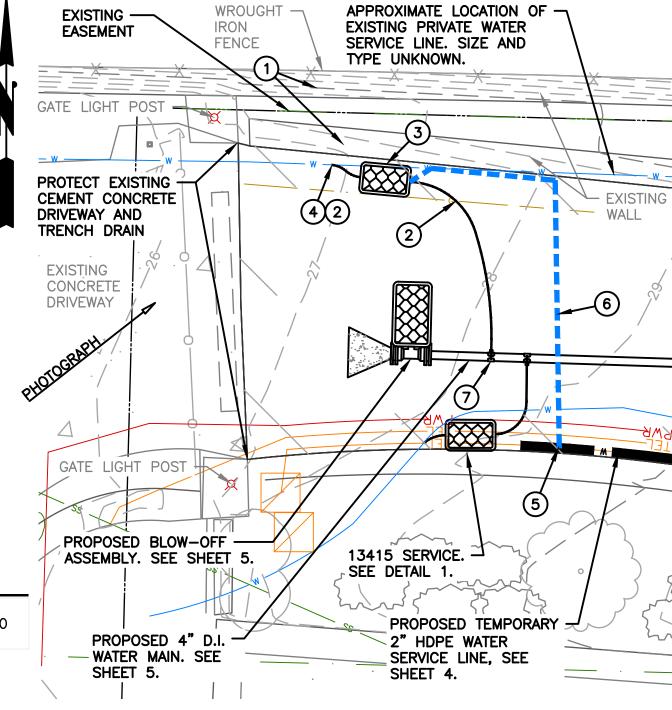
GENERAL NOTES

- . HAND EXCAVATION FOR THE INSTALLATION OF WATER SERVICE PIPING AND METER BOX WILL BE REQUIRED TO AVOID EXCESSIVE DAMAGE TO EXISTING IMPROVEMENTS. COORDINATE WITH THE DISTRICT PRIOR TO COMMENCING CONSTRUCTION TO DETERMINE THE LIMITS OF HAND EXCAVATION
- 2. PRIOR TO COMMENCING CONSTRUCTION, COORDINATE WITH THE DISTRICT AND PROPERTY OWNERS REGARDING THE REMOVAL AND RESTORATION OF EXISTING LANDSCAPING FEATURES.

PHOTOGRAPH

CONSTRUCTION NOTES

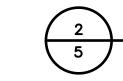
- 1) PROTECT EXISTING RETAINING WALL.
- 2 POTHOLE TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES PRIOR TO COMMENCING WORK. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HERE SHALL BE REPORTED TO THE DISTRICT PRIOR TO COMMENCING THE WORK.
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- (4) CONNECT NEW WATER SERVICE TO EXISTING WATER SERVICE PER DETAIL 9, SHEET 10.
- 5 CONNECT METER SETTER TO TEMPORARY WATER MAIN AND THEN SALVAGE EXISTING METER FROM BOX NEAR HOLMES POINT DRIVE AND SET IN NEW METER LOCATION TO PROVIDE TEMPORARY WATER SERVICE DURING WATER MAIN INSTALLATION. CAP BOTH ENDS OF EXISTING WATER SERVICE AND ANY OTHER OPEN ENDS OF THE EXISTING SERVICE WHERE IT HAS BEEN CUT OR BROKEN.
- 6 INSTALL MINIMUM 2 TRAFFIC RAMPS FOR TEMPORARY WATER SERVICE. 7) AFTER THE WATER MAIN INSTALLATION IS
- COMPLETE, INSTALL WATER SERVICE LINE FROM NEW WATER MAIN TO NEW METER SETTER PER DETAIL 4, SHEET 10.



PLAN

GENERAL NOTES

. HAND EXCAVATION FOR THE INSTALLATION OF WATER SERVICE PIPING AND METER BOX WILL BE REQUIRED TO AVOID EXCESSIVE DAMAGE TO EXISTING IMPROVEMENTS. COORDINATE WITH THE DISTRICT PRIOR TO COMMENCING CONSTRUCTION TO DETERMINE THE LIMITS OF HAND EXCAVATION



PROPOSED 4" D.I. WATER -

MAIN. SEE SHEET 5.

LIFT STATION NO. 15 METER DETAIL

PROPOSED TEMPORARY

LINE, SEE SHEET 4.

EASEMENT

PROPERTY LINE.

CONFIRM PRIOR

TYPE UNKNOWN.

TO CONSTRUCTION.

APPROXIMATE LOCATION OF

EXISTING PRIVATE WATER

SERVICE LINE. SIZE AND

2" HDPE WATER SERVICE







PHOTOGRAPH 2

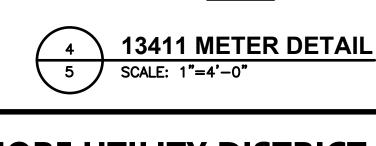
CONSTRUCTION NOTES

- REMOVE AND WASTEHAUL EXISTING DECORATIVE ROCKS AND/OR SHRUBS. RESTORE AREA WITH LANDSCAPE BARK AND SHRUBS
- AS REQUIRED. SEE GENERAL NOTES 1 AND 2. POTHOLE TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES PRIOR TO COMMENCING WORK. ANY DISCREPANCIES FOUND
- IN THE FIELD FROM THOSE SHOWN HERE SHALL BE REPORTED TO THE DISTRICT PRIOR TO COMMENCING THE WORK.
- PROPOSED WATER METER LOCATION. SET NEW 1" METER BOX AND SETTER PER DETAIL 4, SHEET 10.
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- CONNECT METER SETTER TO TEMPORARY WATER MAIN AND THEN SALVAGE EXISTING METER FROM BOX NEAR HOLMES POINT DRIVE AND SET IN NEW METER LOCATION TO PROVIDE TEMPORARY WATER SERVICE DURING WATER MAIN INSTALLATION. CAP BOTH ENDS OF EXISTING WATER SERVICE AND ANY OTHER OPEN ENDS OF THE EXISTING SERVICE WHERE IT HAS BEEN CUT
- AFTER THE WATER MAIN INSTALLATION IS COMPLETE, INSTALL WATER SERVICE LINE FROM NEW WATER MAIN TO NEW METER SETTER PER DETAIL 4. SHEET 10.

GENERAL NOTES

IS NOT TO SCALE

- 1. HAND EXCAVATION FOR THE INSTALLATION OF WATER SERVICE PIPING AND METER BOX WILL BE REQUIRED TO AVOID EXCESSIVE DAMAGE TO EXISTING IMPROVEMENTS. COORDINATE WITH THE DISTRICT PRIOR TO COMMENCING CONSTRUCTION TO DETERMINE THE LIMITS OF HAND EXCAVATION.
- 2. PRIOR TO COMMENCING CONSTRUCTION, COORDINATE WITH THE DISTRICT AND PROPERTY OWNERS REGARDING THE REMOVAL AND RESTORATION OF EXISTING LANDSCAPING FEATURES





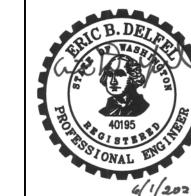
PHOTOGRAPH

CONSTRUCTION NOTES

- POTHOLE TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES PRIOR TO COMMENCING WORK. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HERE SHALL BE REPORTED TO THE DISTRICT PRIOR TO COMMENCING THE WORK.
- 2 PROPOSED WATER METER LOCATION. SET NEW 1" METER BOX AND SETTER PER DETAIL 4, SHEET 10.
- (3) CONNECT NEW WATER SERVICE TO EXISTING WATER SERVICE PER DETAIL 9, SHEET 10.
- CONNECT METER SETTER TO TEMPORARY WATER MAIN AND THEN SALVAGE EXISTING METER FROM BOX NEAR HOLMES POINT DRIVE AND SET IN NEW METER LOCATION TO PROVIDE TEMPORARY WATER SERVICE DURING WATER MAIN INSTALLATION. CAP BOTH ENDS OF EXISTING WATER SERVICE AND ANY OTHER OPEN ENDS OF THE EXISTING SERVICE WHERE IT HAS BEEN CUR OR BROKEN.
- 5 AFTER THE WATER MAIN INSTALLATION IS COMPLETE, INSTALL WATER SERVICE LINE FROM NEW WATER MAIN TO NEW METER SETTER PER DETAIL 4, SHEET 10.

GENERAL NOTES

- 1. HAND EXCAVATION FOR THE INSTALLATION OF WATER SERVICE PIPING AND METER BOX WILL BE REQUIRED TO AVOID EXCESSIVE DAMAGE TO EXISTING IMPROVEMENTS. COORDINATE WITH THE DISTRICT PRIOR TO COMMENCING CONSTRUCTION TO DETERMINE THE LIMITS OF HAND EXCAVATION.
- 2. PRIOR TO COMMENCING CONSTRUCTION, COORDINATE WITH THE DISTRICT AND PROPERTY OWNERS REGARDING THE REMOVAL AND RESTORATION OF EXISTING LANDSCAPING FEATURES.



RIC B. DELP	
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CAR METERS	
(a) (b) (c) (d)	
40195 PARTERING INC.	
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6/1/2021	

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					IF THIS BAR
					NOT MEASU

BID SET

PLAN

SCALE: 1"=4'-0"

13413 METER DETAIL



DESIGNED BY **DRAWN CHECKED APPROVAL** JUN 2021 DATE



NORTHSHORE UTILITY DISTRICT

6830 NE 185th St. Kenmore, WA 98028-2684

PROPOSED

EASEMENT.

UTILITY

P.O. Box 82489 Kenmore, WA 98028-2684

PLAN

Ph: (425) 398-4400 | Fax: (425) 398-4430 | www.nud.net

CONTRACT 2021-02 PRIVATE WATER SERVICE LINE PROJECT #76

METER DETAILS

BASE MAP H4 C1922

SHEET

_ OF <u>13</u>

PROPOSED 4" D.I. WATER -MAIN. SEE SHEET 5. PROPOSED TEMPORARY 2" HDPE WATER SERVICE LINE SEE SHEET 4. STONE **PAVERS** PROTECT EXISTING APPROXIMATE LOCATION CONCRETE BLOCK OF EXISTING PRIVATE WATER SERVICE LINE. SIZE AND TYPE UNKNOWN. **EASEMENT PLAN**

13407 METER DETAIL

CONSTRUCTION NOTES

- 1) POTHOLE TO DETERMINE EXACT LOCATION AND DEPTH OF JTILITIES PRIOR TO COMMENCING WORK. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HERE SHALL BE REPORTED TO THE DISTRICT PRIOR TO COMMENCING THE WORK.
- PROPOSED WATER METER LOCATION. SET NEW 1" METER BOX AND SETTER PER DETAIL 4, SHEET 10.
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- 5) AFTER THE WATER MAIN INSTALLATION IS COMPLETE, INSTALL WATER SERVICE LINE FROM NEW WATER MAIN TO NEW METER SETTER PER DETAIL 4, SHEET 10.
- (6) REMOVE AND WASTEHAUL EXISTING SHRUBS. RESTORE AREA WITH LANDSCAPE BARK AND SHRUBS AS REQUIRED. SEE GENERAL NOTES 1 AND 2.

SE 1/4, SEC 23, T26N, R4E, WM

GENERAL NOTES

1. HAND EXCAVATION FOR THE INSTALLATION OF WATER SERVICE PIPING AND METER BOX WILL BE REQUIRED TO AVOID EXCESSIVE DAMAGE TO EXISTING IMPROVEMENTS. COORDINATE WITH THE DISTRICT PRIOR TO COMMENCING CONSTRUCTION TO DETERMINE THE LIMITS OF HAND EXCAVATION.

2. PRIOR TO COMMENCING CONSTRUCTION, COORDINATE WITH THE DISTRICT AND PROPERTY OWNERS REGARDING THE REMOVAL AND RESTORATION OF EXISTING LANDSCAPING FEATURES.



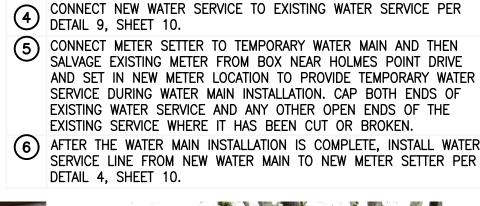
PHOTOGRAPH 2

GENERAL NOTES

TO EXISTING IMPROVEMENTS. COORDINATE WITH THE DISTRICT PRIOR TO COMMENCING HAND EXCAVATION.

INTERFERE WITH NEW SERVICE. RESTORE AREA WITH LANDSCAPE BARK AND SHRUBS AS REQUIRED. SEE GENERAL NOTES 1 AND 2. POTHOLE TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES

- 1. HAND EXCAVATION FOR THE INSTALLATION OF WATER SERVICE PIPING AND METER BOX WILL BE REQUIRED TO AVOID EXCESSIVE DAMAGE CONSTRUCTION TO DETERMINE THE LIMITS OF
- 2. PRIOR TO COMMENCING CONSTRUCTION, COORDINATE WITH THE DISTRICT AND PROPERTY OWNERS REGARDING THE REMOVAL AND RESTORATION OF EXISTING LANDSCAPING FEATURES.



REMOVE AND RESET LARGE ROCKS IN LOCATIONS THAT DO NOT

PRIOR TO COMMENCING WORK. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HERE SHALL BE REPORTED TO THE

PROPOSED WATER METER LOCATION. SET NEW 1" METER BOX AND

CONSTRUCTION NOTES

SETTER PER DETAIL 4. SHEET 10.

DISTRICT PRIOR TO COMMENCING THE WORK.



13405 METER DETAIL SCALE: 1"=8'-0" **PHOTOGRAPH 2**

PROPOSED 4"

SEE SHEET 6.

EASEMENT

HAND DIG -

PROPOSED

SERVICE.

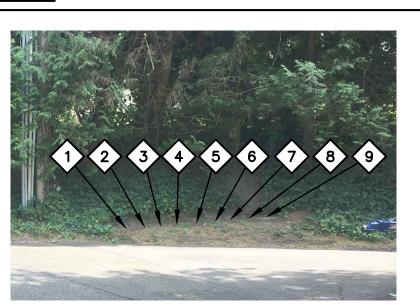
PRIVATE WATER

HOUSE

D.I. WATER MAIN



PHOTOGRAPH 1





EXISTING

- PROTECT

EXISTING

APPROXIMATE LOCATION OF

EXISTING PRIVATE WATER SERVICE LINE. SIZE AND

TYPE UNKNOWN.

PROPOSED

SHEET 4.

TEMPORARY 2"

SERVICE LINE, SEE

EXISTING **CONCRETE**

*DRIVEWAY

HDPE WATER

PHOTOGRAPH 1

PHOTOGRAPH 2

ACCOUNT NO. 241653 OWNER NAME: NUD - LIFT STATION NO. 15

ACCOUNT NO. 242396 OWNER NAME: WAKEFIELD - 13413 HOLMES PT. DR. N.E.

ACCOUNT NO. 243949 OWNER NAME: KNUDSEN/BANG - 13411 HOLMES PT. DR. N.E.

ACCOUNT NO. 249938 OWNER NAME: GILBERT - 13419 HOLMES PT. DR. N.E.

ACCOUNT NO. 249946 OWNER NAME: HURTS - 13405 HOLMES PT. DR. N.E.

ACCOUNT NO. 263464 OWNER NAME: HERSMAN - 13415 HOLMES PT. DR. N.E.

9

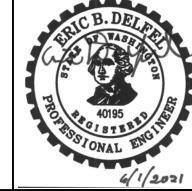
6

ACCOUNT NO. 268576 OWNER NAME: GOODMANSEN - 13407 HOLMES PT. DR. N.E.

CONTRACT 2021-02

PRIVATE WATER SERVICE LINE PROJECT #76

METER DETAILS



REMOVE -EXISTING TREE. **EXISTING** CONCRETE WALKWAY **PROPOSED** UTILITY APPROXIMATE -EASEMENT. LOCATION OF EXISTING PRIVATE WATER SERVICE LINE. SIZE AND TYPE UNKNOWN. PROTECT EXISTING CEMENT CONCRETE WALKWAY. EXISTING **EASEMENT** PROPOSED 4" D.I. WATER MAIN. SEE SHEET 6. TEMPORARY BLOW-OFF PROPOSED\ ASSEMBLY, SEE SHEET 4. TEMPORARY 2" HDPE WATER SERVICE LINE,

SEE SHEET 4.



PHOTOGRAPH 1

PHOTOGRAPH

CONSTRUCTION NOTES

- REMOVE AND RESET LARGE ROCKS IN LOCATIONS THAT DO NOT INTERFERE WITH NEW SERVICE. RESTORE AREA WITH LANDSCAPE BARK AND SHRUBS AS REQUIRED. SEE GENERAL NOTES 1 AND 2.
- POTHOLE TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES PRIOR TO COMMENCING WORK. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HERE SHALL BE REPORTED TO THE DISTRICT PRIOR TO COMMENCING THE WORK.
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- 6 INSTALL MINIMUM 2 TRAFFIC RAMPS FOR TEMPORARY WATER SERVICE.
- 7) AFTER THE WATER MAIN INSTALLATION IS COMPLETE, INSTALL WATER SERVICE LINE FROM NEW WATER MAIN TO NEW METER SETTER PER DETAIL 4. SHEET 10.

GENERAL NOTES

IS NOT TO SCALE

- 1. HAND EXCAVATION FOR THE INSTALLATION OF WATER SERVICE PIPING AND METER BOX WILL BE REQUIRED TO AVOID EXCESSIVE DAMAGE TO EXISTING IMPROVEMENTS. COORDINATE WITH THE DISTRICT PRIOR TO COMMENCING CONSTRUCTION TO DETERMINE THE LIMITS OF HAND EXCAVATION.
- 2. PRIOR TO COMMENCING CONSTRUCTION, COORDINATE WITH THE DISTRICT AND PROPERTY OWNERS REGARDING THE REMOVAL AND RESTORATION OF EXISTING LANDSCAPING FEATURES.

BY APPD **REVISION** DATE WARNING F THIS BAR DOES NOT MEASURE 1 THEN DRAWING

13419 METER DETAIL

BID SET

SCALE: 1"=5'-0"

Gray & Osborne, In

DESIGNED BY **DRAWN CHECKED** WATER **APPROVAL** JUN 2021 DATE



NORTHSHORE UTILITY DISTRICT

SCALE: 1"=8'-0"

METER BANK DETAIL

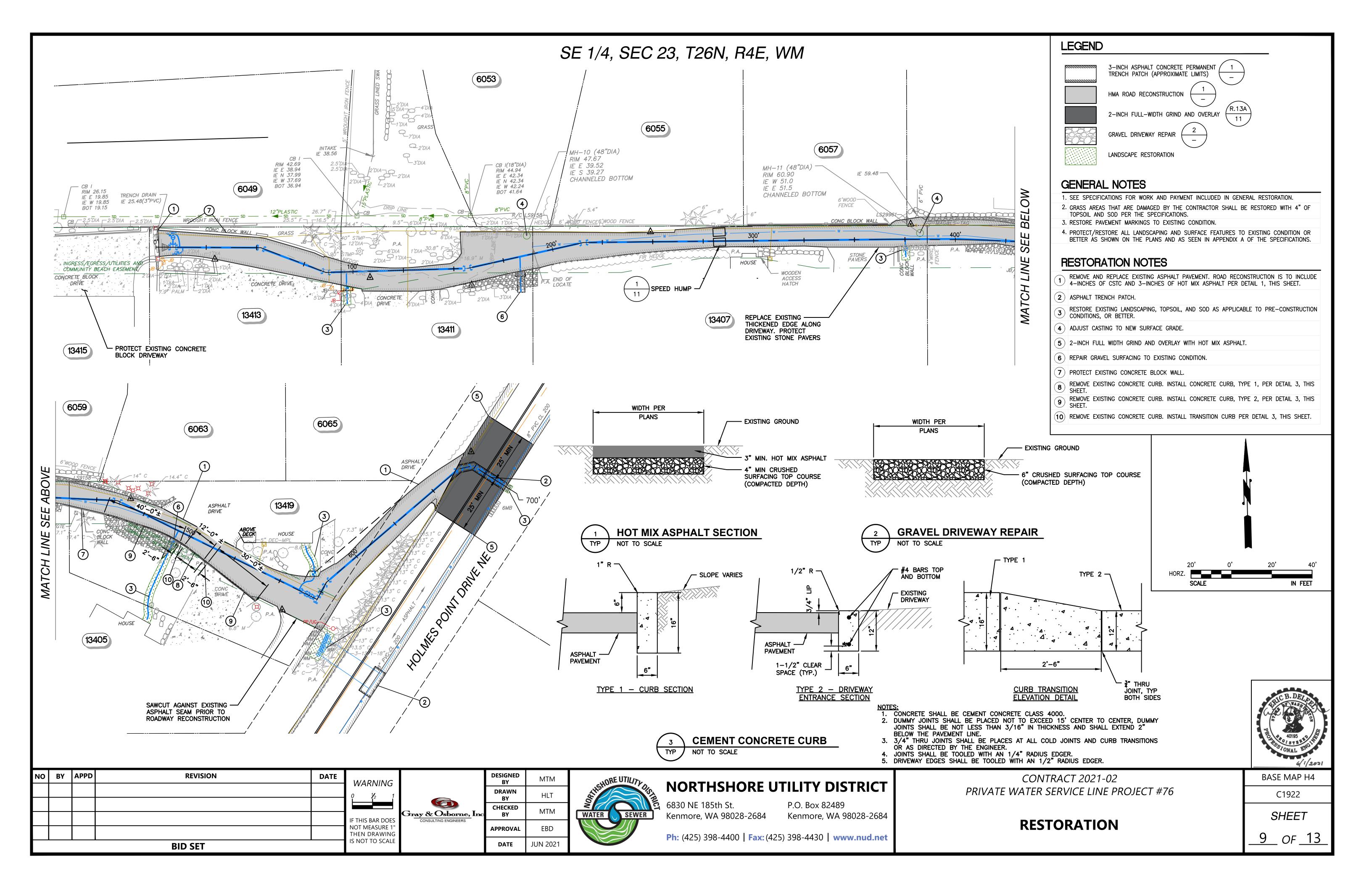
6830 NE 185th St. P.O. Box 82489 Kenmore, WA 98028-2684 Kenmore, WA 98028-2684

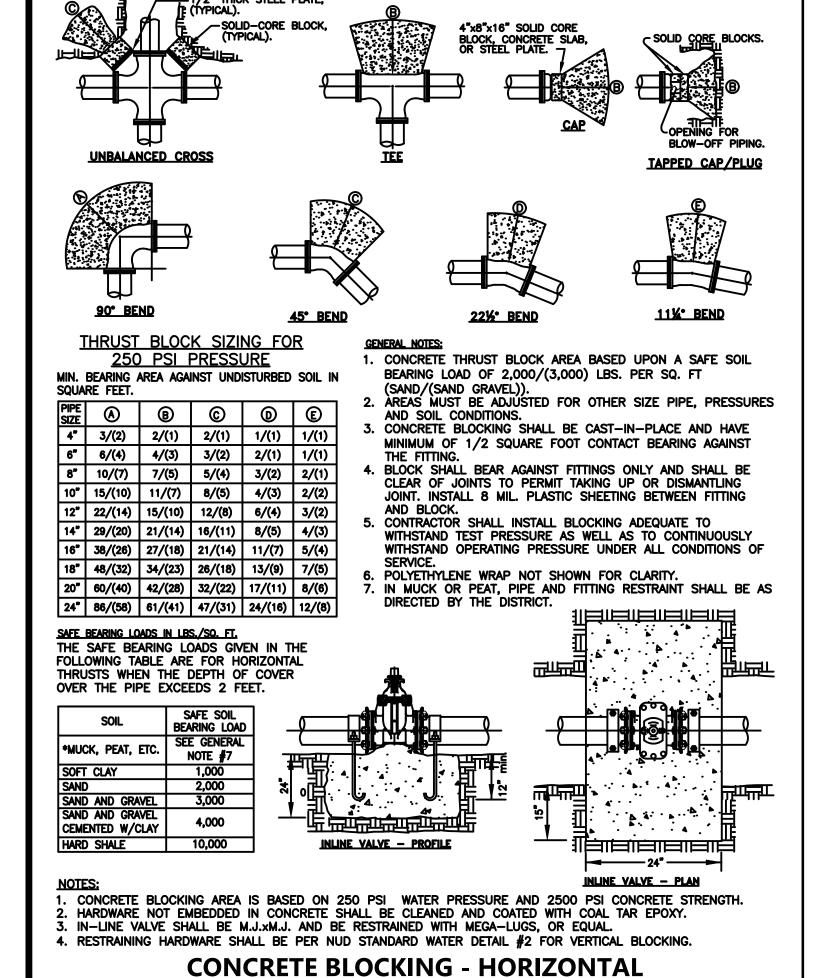
Ph: (425) 398-4400 | Fax: (425) 398-4430 | www.nud.net

BASE MAP H4

C1922 SHEET

<u>8</u> of <u>13</u>

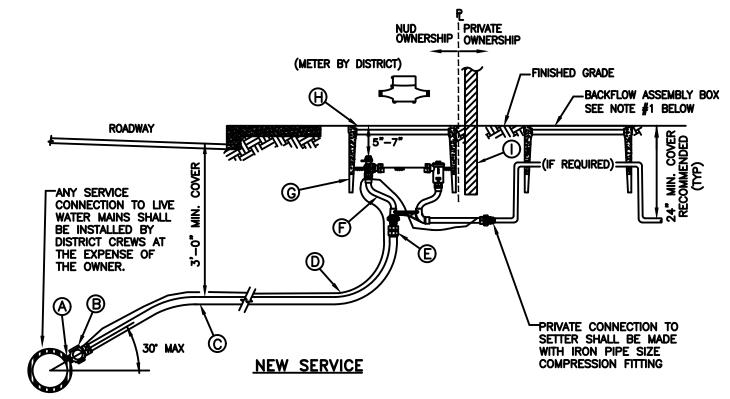




DETAIL APPROVALS

EDITOR TDC

MANAGER DPK



MATERIALS LIST

<u>ITEM</u>

- DIRECT TAP: DIRECT TAP OF DUCTILE IRON OR CAST IRON LARGER THAN 4" DIAMETER IS REQUIRED FOR 1" SERVICES. SADDLES WILL NOT BE ALLOWED ON DUCTILE IRON OR CAST IRON PIPE LARGER THAN 4" DIAMETER. SADDLE: ALL SADDLES SHALL BE DUCTILE IRON CASTING WITH CC THREADS. FOR ALL PIPE MATERIAL OTHER THAN PVC PIPE, SADDLES SHALL BE SINGLE STRAP TYPE EQUAL TO FORD FC101, ROMAC 101NS, MUELLER DR1S, OR DISTRICT APPROVED EQUAL FOR PVC PIPE, SADDLES SHALL BE DOUBLE STRAP TYPE EQUAL TO MUELLER DR2S, FORDER OR POWAC 202NS
- 1" CORPORATION STOP, CCXPACK JOINT, FORD F1001 OR APPROVED EQUAL, WITH STAINLESS STEEL STIFFENER, FORD INSERT-53-72, A.Y. MCDONALD 6136-1", OR MUELLER 505142.
- 1 1/4" REHAU MUNICIPEX PEXa 3306, COPPER TUBE SIZE (CTS), SDR 9, AWWA C904, PER THE SPECIFICATIONS. PIPE SHALL BE CONTINUOUS FROM CORPORATION STOP TO METER SETTER. ALL PEXa PIPE INSTALLED BY OPEN—CUT CONSTRUCTION SHALL BE BEDDED IN SAND 4" OVER AND UNDER. NATIVE MATERIAL WILL NOT BE
- TRACER WIRE: BLUE 14 GAUGE COPPER, CONTINUOUS, SOLID CORE, POLYETHYLENE INSULATED PER THE SPECIFICATIONS. CONNECTION AT THE METER SETTER SHALL BE MADE WITH AN ALL STAINLESS STEEL HOSE CLAMP. CONNECTION AT THE MAIN LINE WIRE SHALL BE MADE WITH A SPLIT-BOLT CONNECTOR. STRIP COATING PRIOR TO CONNECTION. INSTALL TRACER WIRE FROM SETTER TO CONNECTION TO THE PRIVATE SERVICE.
- (E) 1" ADAPTER, MIPXPACK JOINT.

DETAIL APPROVALS

MANAGER SJD

EDITOR

IS NOT TO SCALE

- 1" METER SETTER WITH DUAL CHECK VALVE: FORD VBHC74-84W-11-44A-FP-NL, A.Y. MCDONALD 762-412WDDD 44x15, OR MUELLER 390B2588-6A03N
- METER BOX: ARMORCAST, A6001946PCX12-NUD (NO "MOUSE HOLES") OR DFW, DFW1324CNP4-12-BODY
- ARMORCAST, A6001969-H10-NUD OR DFW, DFW1324C-4MT-SMALL-NS-NHK-LID
- 2"x4"x4', MARKER POST. BURIED AT PROPERTY LINE. PAINTED WHITE WITH "WATER" STENCILED ONTO IT IN BLACK. NOTE:
- 1. IF REQUIRED FOR PREMISE ISOLATION, AN APPROVED BACKFLOW ASSEMBLY SHALL BE INSTALLED IMMEDIATELY BEHIND THE WATER METER PER DISTRICT STANDARD WATER DETAILS #13, #14a, AND #14b .

1" WATER SERVICE

NORTHSHORE UTILITY DISTRICT

2021 STANDARD WATER DETAILS

2. ALL PEXG PIPE TO PACK JOINT CONNECTIONS REQUIRE A STIFFENER INSERT.

REMOVE & REPLACE SIDEWALK PANEL REPLACE CURB AND GUTTER (IF APPLICABLE) (IF APPLICABLE) NEW METER PEXa PIPE SIZI AS CALLED OUT IN PLANS MINIMUM BEND RADIUS PER PIPE MANUFACTURER BOX LOCATION LOCATE AND CONNECT TO EXISTING WATER SERVICE LINE. PROVIDE ALL BRASS INSTA-TITE OR COMPRESSION PACK JOINT STYLE FITTINGS. CONFIRM FITTINGS REQUIRED PRIOR TO DISRUPTING EXISTING WATER SERVICE AND COMMENCING RECONNECTION CONSTRUCTION. SEE NOTE 4.

- 1. WATER SERVICE PER NUD STANDARD WATER DETAILS, #4 OR #5.
- 2. UNLESS SHOWN ON PLANS, RELOCATE NEW METER TO PROPERTY LINE.
- 3. MEASURE AND RECORD EXISTING WATER PRESSURE AT BUILDING PRIOR TO RECONNECTION AND AFTER REESTABLISHMENT OF SERVICE. IF PRESSURE READINGS DIFFER BY MORE THAN 5 PSI, THE CONTRACTOR SHALL LOCATE AND CORRECT THE ISSUE AT THE PRIVATE PRV. IF A PRIVATE PRV IS REMOVED DURING NEW SERVICE INSTALLATION, ADD A NEW PRV
- 4. ALL PIPE FITTINGS SHALL BE BRASS. PRIOR TO MAKING THE CONNECTION, THE CONTRACTOR SHALL POTHOLE THE EXISTING SERVICE LINE TO DETERMINE THE LOCATION, SIZE, AND TYPE OF EXISTING PIPE AND TO CONFIRM THE PIPE AND FITTINGS REQUIRED TO MAKE THE CONNECTION. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPE AND FITTINGS ON—SITE PRIOR TO DISRUPTING WATER SERVICE AND COMMENCING CONSTRUCTION. NO EXISTING WATER SERVICE SHALL BE DISRUPTED FOR MORE THAN TWO HOURS IN ONE DAY.
- 5. ALL PEXa PIPE TO PACK JOINT CONNECTIONS REQUIRE A STIFFENER INSERT.
- 6. FLUSH ALL NEW WATER SERVICE PIPING IN THE PRESENCE OF THE DISTRICT.
- 7. COORDINATE WITH THE DISTRICT TO SALVAGE THE EXISTING METER AND FOR INSTALLATION OF THE METER INTO THE NEW SERVICE SETTER. LOCATE AND RECONNECT THE EXISTING SERVICE LINE ON THE BACK OF THE METER. ALL PIGTAIL AND PRIVATE WATER SERVICE CONNECTIONS SHALL BE TESTED AT LINE PRESSURE AND SHALL BE VISUALLY INSPECTED BY
- 8. REMOVE AND REPLACE EXISTING METER BOX AND SETTER.
- 9. RESTORE THE SITE TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION.

MANHOLE LOCKING FRAME AND COVER

<u>APPROVALS</u> 9 R SJD

NORTHSHORE UTILITY DISTRICT

__ 2" X 1" SLOTTED HOLES



FRAME SECTION B-B

FRAME SECTION A-A

COVER SECTION

CAM LOCK VIEW

(INSTALLED DURING ASSEMBLY)

EXISTING WATER SERVICE RE-CONNECTION

DETAIL APPROVALS EDITOR MANAGER SJD

MODIFIED

(4)

2021 STANDARD WATER DETAILS

NORTHSHORE UTILITY DISTRICT

)	<u>DETAIL A</u>
/ I	EDITOR
T UPDATED APRIL 2021	MANAGE

2020 STANDARD SEWER DETAILS

HINGE & GASKET VIEW

00104043L01. MANHOLE LID TO SAY "SEWER". MANHOLE LID NOT TO INCLUDE NUD LOGO OR NAME.

1. MANHOLE FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS ERGO ASSEMBLY, PART NUMBER 001040105L01.

2. FOR PRIVATE MANHOLES, FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS ERGO ASSEMBLY, PART NUMBER



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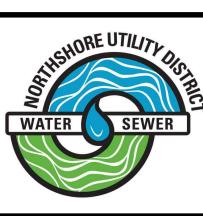
BID SET

NORTHSHORE UTILITY DISTRICT

2020 STANDARD WATER DETAILS

Gray & Osborne, In HIS BAR DOES NOT MEASURE 1 THEN DRAWING

DESIGNED BY **DRAWN CHECKED APPROVAL** JUN 2021 DATE



NORTHSHORE UTILITY DISTRICT

6830 NE 185th St. Kenmore, WA 98028-2684

P.O. Box 82489 Kenmore, WA 98028-2684

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CONTRACT 2021-02 PRIVATE WATER SERVICE LINE PROJECT #76

MPIC® MULTI-TOOL

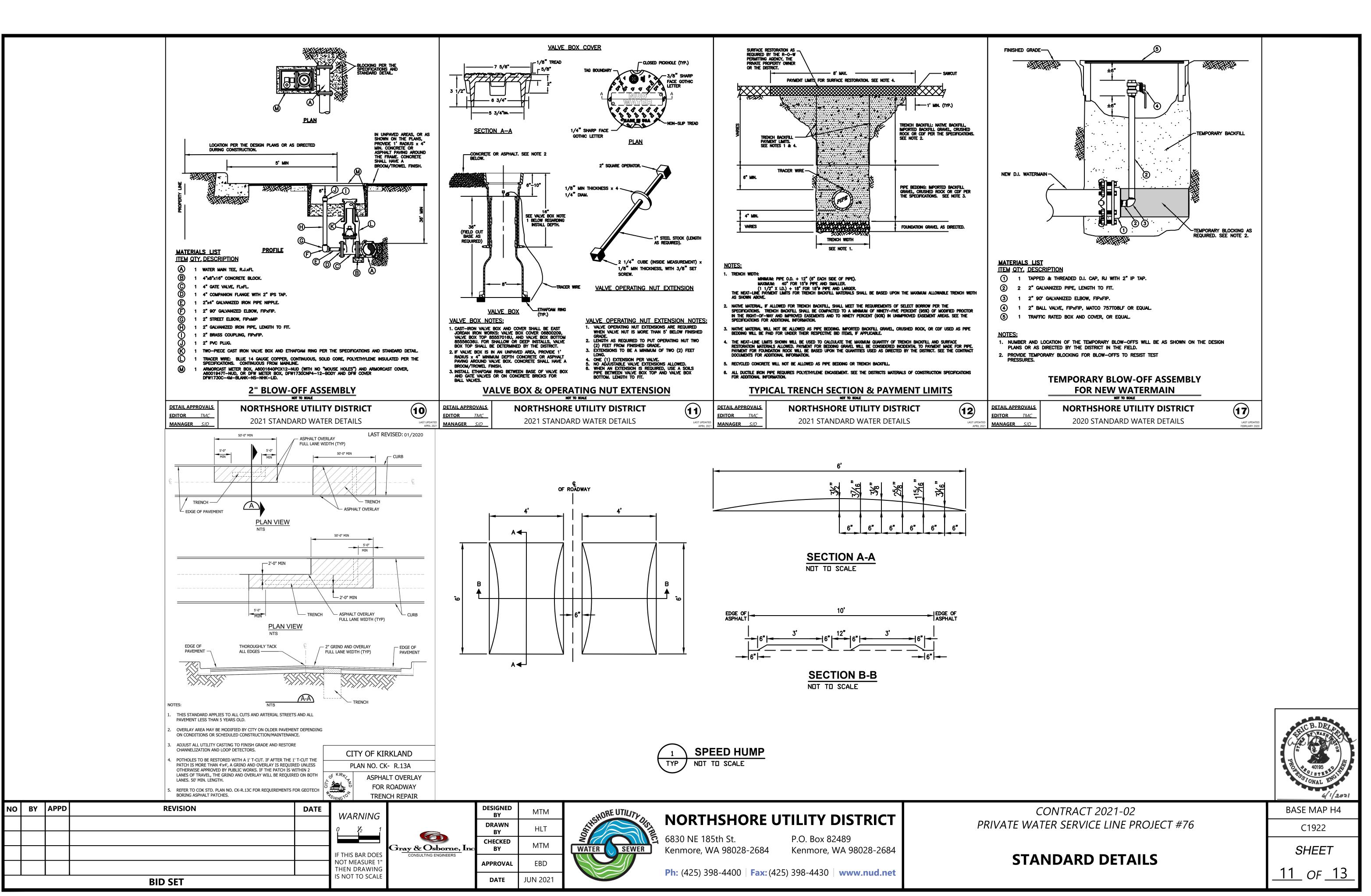
HINGE POSITIONS

SAFETY CATCH AT 90°

PLAN VIEW

STANDARD DETAILS

BASE MAP H4 C1922 SHEET <u>10 of 13 </u>



SE 1/4, SEC 23, T26N, R4E, WM



GENERAL NOTES

- 1. SIGNS SHALL BE BLACK (NON REFLECTIVE) ON ORANGE (REFLECTIVE) UNLESS NOTED OTHERWISE.
- 2. ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
- 3. EXTEND TAPER DEVICES ACROSS SHOULDER.
- 4. MOTORCYCLES USE EXTREME CAUTION SIGNS SHALL BE INSTALLED WHEN THE FOLLOWING ROADWAY CONDITIONS EXIST:
 GROOVED PAVEMENT
 ABRUPT LANE EDGE

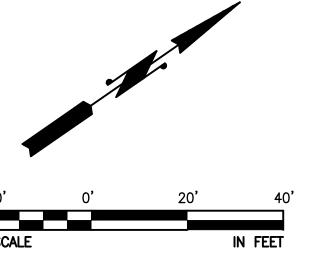
 - STEEL PLATELOOSE GRAVEL OR EARTH
- 5. OPEN TRENCHES WITHIN THE TRAVELED SHALL HAVE A STEEL-PLATE COVER PLACED AND ANCHORED OVER THEM. A WEDGE OF SUITABLE ASPHALT MATERIAL SHALL BE PLACED FOR A SMOOTH TRANSITION BETWEEN THE PAVEMENT AND THE STEEL PLATE. WARNING SIGNS SHALL BE USED TO ALERT MOTORISTS OF THE PRESENCE OF STEEL PLATES.
- 6. MAINTAIN ALL PRIVATE ROADWAY AND DRIVEWAY ACCESS AT ALL TIMES.

PERMIT SET

7. SPACING SHOWN IS NOT TO SCALE. FIELD LOCATE TRAFFIC CONTROL DEVICES BASED ON THESE PLANS AND PER THE SPECIFICATIONS.

	CHANNELIZING DEVICE
K	TEMPORARY SIGN LOCATION
N	FLAGGING STATION
	WORK ZONE
	ANNEL IZATION DEVICE

CHANNELIZATION DEVICE SPACING (FEET)					
MDII	· · · · · · · · · · · · · · · · · · ·				
MPH		TANGENT			
35/45		60			
25/30	10 TO 20	40			
•					



BY	APPD	REVISION	DATE	WARNING	
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IF THIS BAR DOES NOT MEASURE 1' THEN DRAWING IS NOT TO SCALE

Gr<u>ay & Osb</u>orne, Inc

DESIGNED BY	MTM	CHORE UTILI
DRAWN BY	HLT	STHSHORE UTILI
CHECKED BY	MTM	WATER SEV
APPROVAL	EBD	
DATE	JUN 2021	

NORTHSHORE UTILITY DISTRICT

6830 NE 185th St. P.O. Box 82489 Kenmore, WA 98028-2684 Kenmore, WA 98028-2684

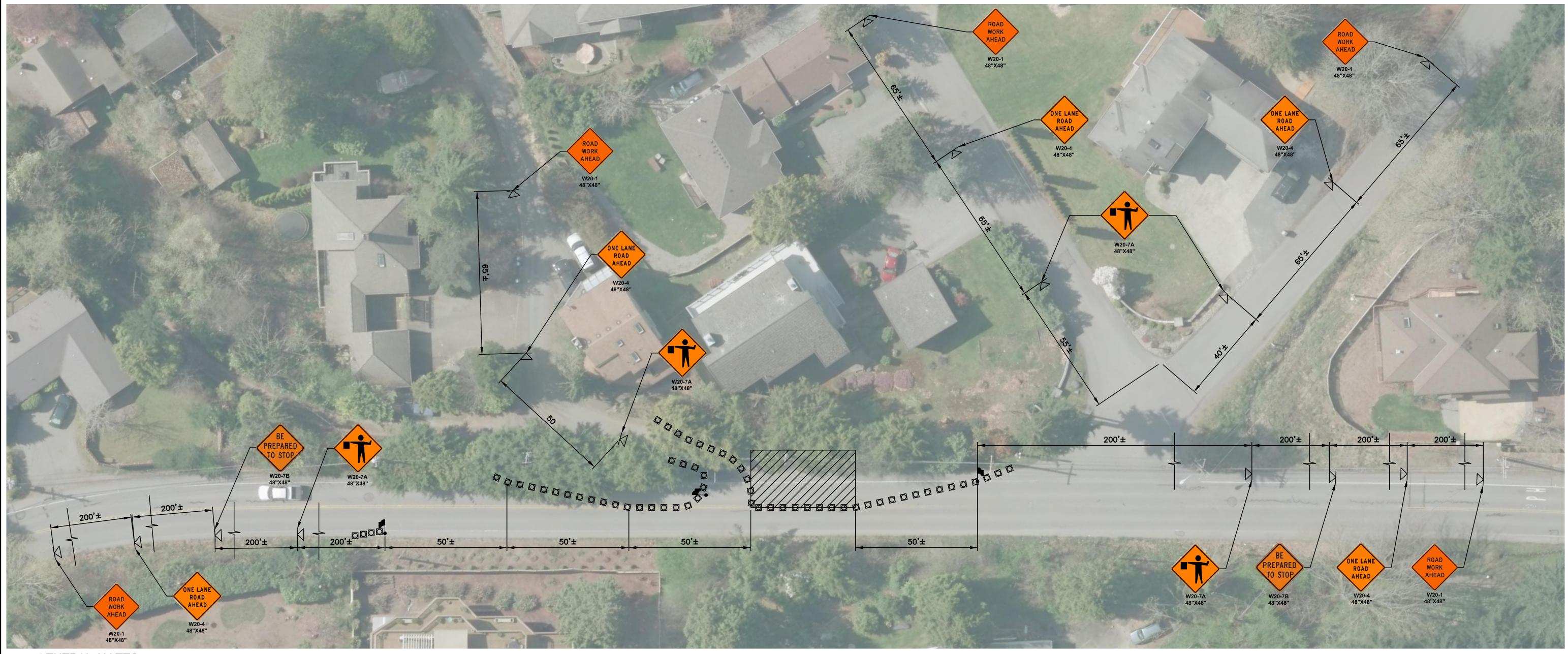
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CONTRACT 2021-02 PRIVATE WATER SERVICE LINE PROJECT #76

TRAFFIC CONTROL PLAN

BAS	E MAP	H4		
	C1922			
SHEET				
12	OF	13		

SE 1/4, SEC 23, T26N, R4E, WM

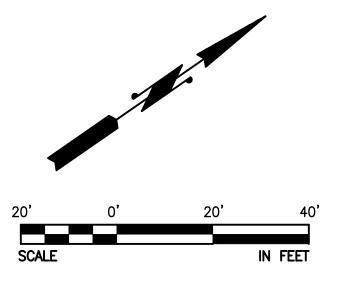


GENERAL NOTES

- 1. SIGNS SHALL BE BLACK (NON REFLECTIVE) ON ORANGE (REFLECTIVE) UNLESS NOTED OTHERWISE.
- 2. ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
- 3. EXTEND TAPER DEVICES ACROSS SHOULDER.
- 4. MOTORCYCLES USE EXTREME CAUTION SIGNS SHALL BE INSTALLED WHEN THE FOLLOWING ROADWAY CONDITIONS EXIST:
 GROOVED PAVEMENT
 ABRUPT LANE EDGE
 STEEL PLATE
 LOOSE GRAVEL OR EARTH
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- 7. SPACING SHOWN IS NOT TO SCALE. FIELD LOCATE TRAFFIC CONTROL DEVICES BASED ON THESE PLANS AND PER THE SPECIFICATIONS.

	CHANNELIZING DEVICE
K	TEMPORARY SIGN LOCATION
N	FLAGGING STATION
	WORK ZONE

CHANNELIZATION DEVICE SPACING (FEET)					
MPH TAPER TANGENT					
35/45	10 TO 20	60			
25/30	10 TO 20	40			



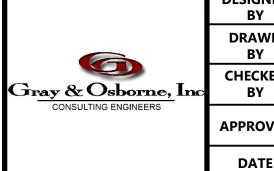
	CONTRACT 2021-02
ı	PRIVATE WATER SERVICE LINE PROJECT #7

TRAFFIC CONTROL PLAN

6/1/202
BASE MAP H4
C1922
SHEET

<u>13</u> of <u>13</u>

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SIGNED BY	MTM	WATER SEV
RAWN BY	HLT	
ECKED BY	MTM	
ROVAL	EBD	
DATE	JUN 2021	

HOREUT	UTYDIS	NORTHSHORE UTILITY DISTRICT	
R S	EWER	6830 NE 185th St. Kenmore, WA 98028-2684	P.O. Box 82489 Kenmore, WA 98028-2684
		Ph: (425) 398-4400 Fax: (425)	398-4430 www.nud.net

0 NE 185th St.	P.O. Box 82489
more, WA 98028-2684	Kenmore, WA 98028-2