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 Commissioner TRUDY C. ROLLA **ALAN G. NELSON**

President of the Board Secretary of the Board

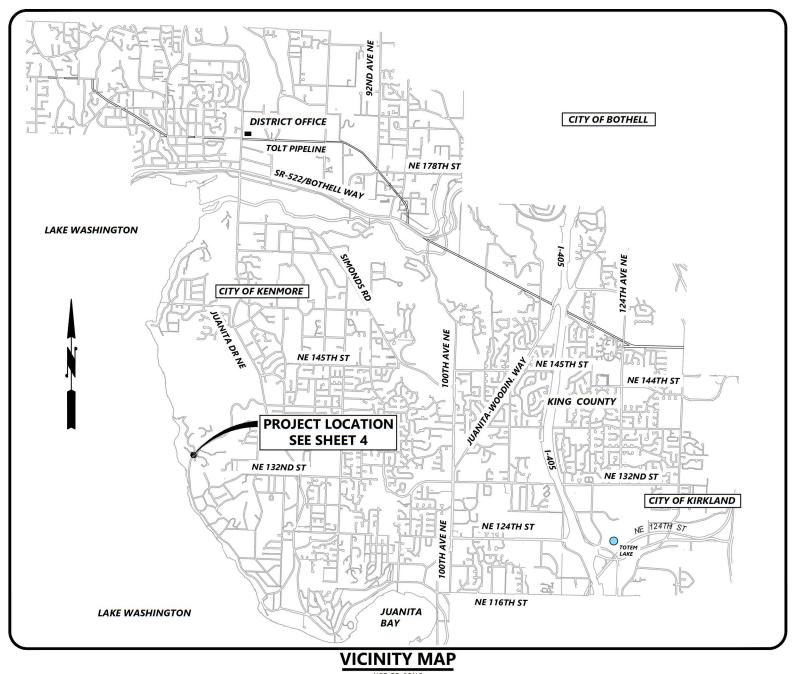
Commissioner

Commissioner

General Manager

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EXISTING PROPOREDY LINE PROPERTY LINE PROPERTY LINE REGIT OF MAY LINE ESPARINT OTCH CENTRELINE SOR SOR' WATER LINE STORM DRAIN LINE STORM DRAIN LINE STORM DRAIN LINE UNDERRORUND POWER LINE CARLE LINE FIRST OFFI CHAIN LINE REGIT OF MAY LINE CARLE LINE FIRST OFFI CHAIN LINE REGIT OFFI CARLE LINE FIRST PROPERTY MATER WALVE LID REGIT OFFI CARLE LINE FIRST OFFI CARLE FIRST OFFI CARLE LINE FIRST OF			
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FILTER FABRIC FENCE PROTECTIVE TREE FENCING	* * * *		GRASS
PROTECTIVE TREE FENCING			SAWCUT LINE
			FILTER FABRIC FENCE
PROPERTY ADDRESS			PROTECTIVE TREE FENCING
			PROPERTY ADDRESS
		•	

GENERAL NOTES:

- 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
- 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

VERTICAL DATUM: 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.

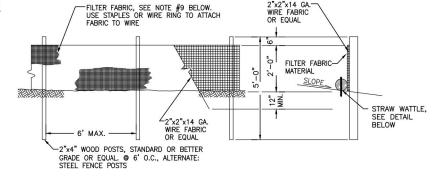
CONTOUR INTERVAL: ONE FOOT (1') CONTOURS

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

- 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
- 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 PERFORMED, AND THOROUGHLY STABILIZED ACAINST 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

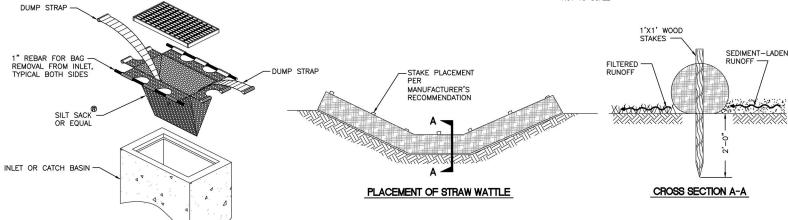


NOTES

- 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.
- 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.
- 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.
- FABRIC SHALL BE SECURED AT THE BASE BY PEA-ROCK FILLED SANDBAGS OR STRAW WATTLES
- 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.
- 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. ' FLAT WASHERS) INSTALLATION DETAIL **BAG DETAIL**

HIGH VISIBILITY FILTER FABRIC FENCE



STORM DRAIN INLET PROTECTION

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BY APPD REVISION DATE

BID SET

WARNING OT MEASURE 1 HEN DRAWIN NOT TO SCALE

ray & Osborne,

DRAWN HLT CHECKED MTM WATER SEWER EBD DATE IUN 202

NORTHSHORE UTILITY DISTRICT

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

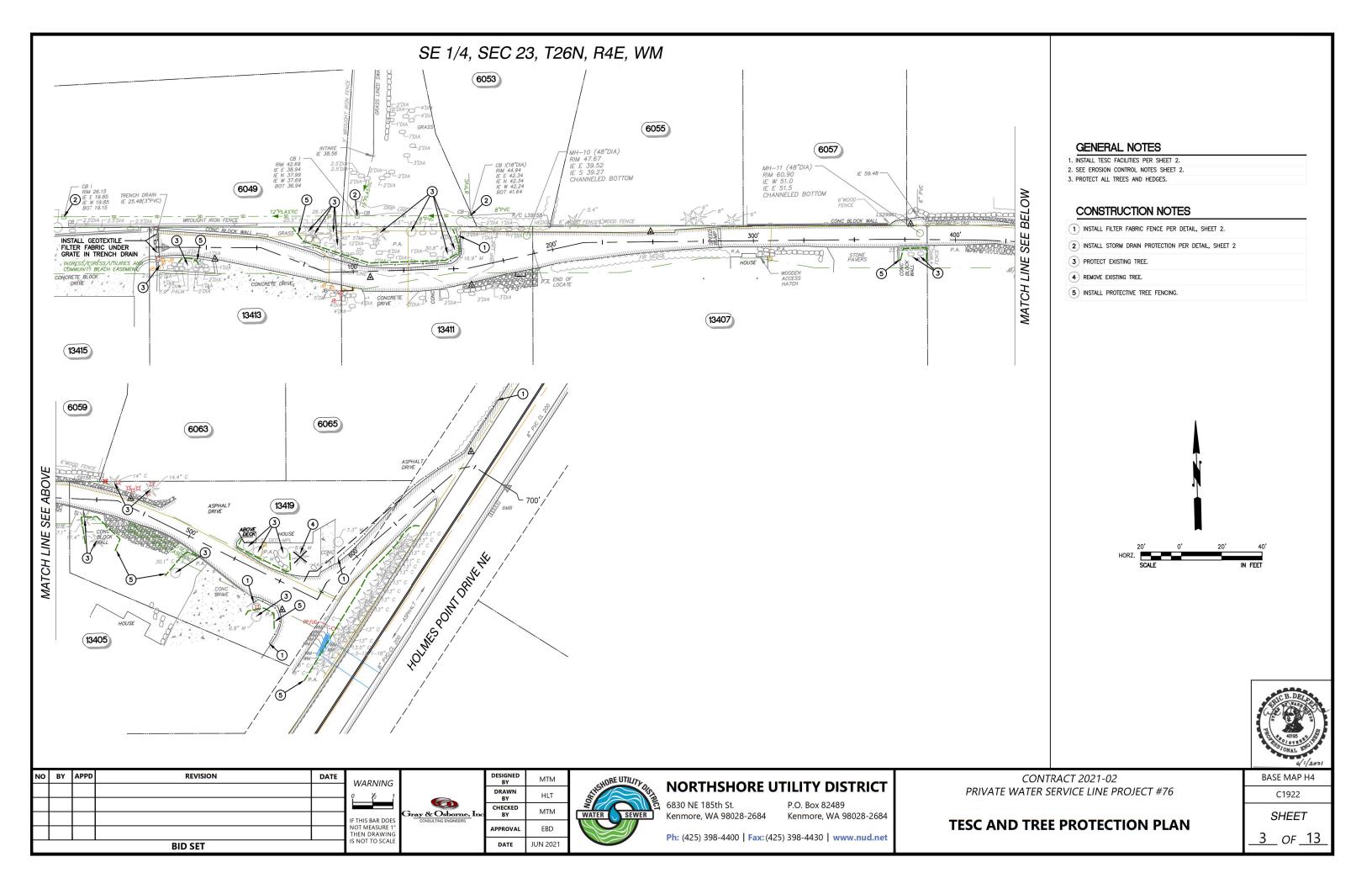
CONTRACT 2021-02 PRIVATE WATER SERVICE LINE PROJECT #76

TESC DETAILS AND NOTES

BASE MAP H4 C1922

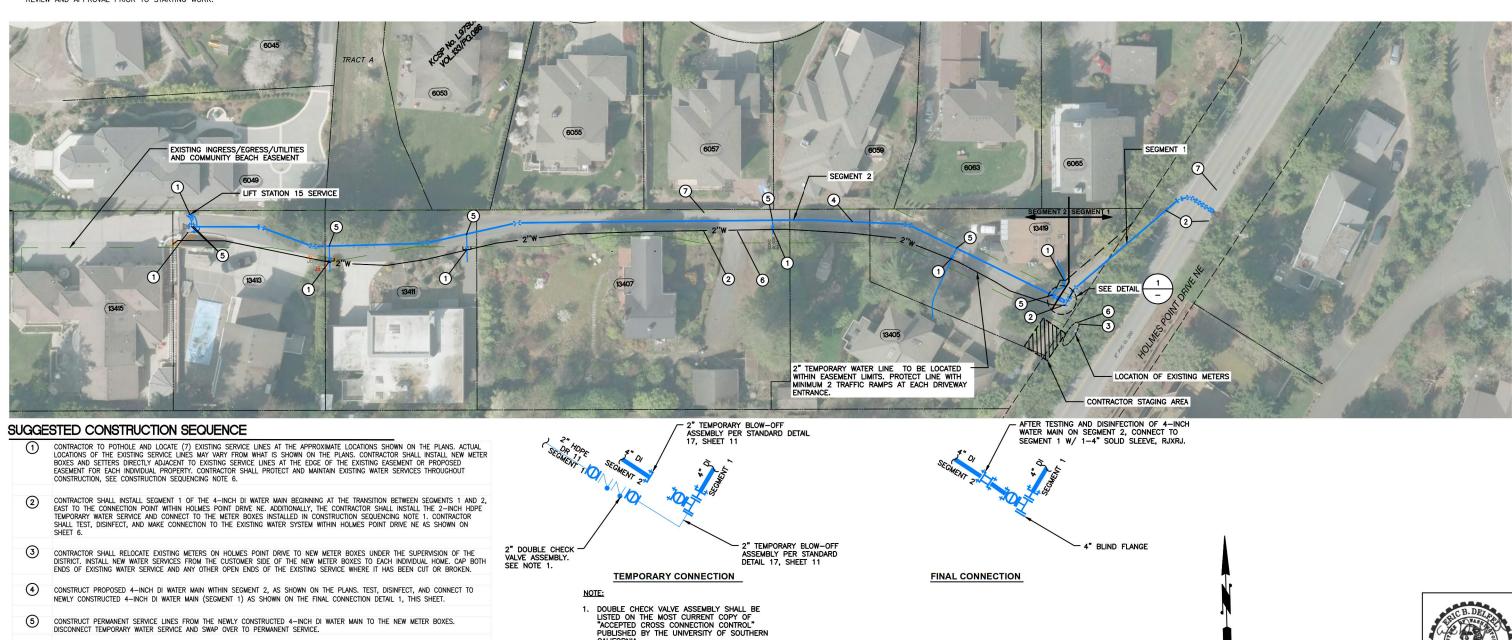
OF _13

SHEET



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.



NO	ВҮ	APPD	REVISION	DATE	WARNING
					0 1/2 1
					IF THIS BAR DOES
					NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE
	BID SET				

CONTRACTOR SHALL COMPLETE SITE RESTORATION AS SHOWN ON SHEET 9.

CONTRACTOR SHALL REMOVE 2-INCH TEMPORARY WATER SERVICE, REMOVE AND WASTEHAUL EXISTING METER BOXES AND SETTERS ON PRIVATE DRIVE, AND ABANDON-IN-PLACE THE EXISTING WATER SERVICE LINES. CONTRACTOR TO LOCATE EXISTING BALL VALVE AND CORP STOP ON 8-INCH MAIN ON HOLMES POINT DRIVE AND CLOSE.

G	
1	
DES 1" NG	Gray & Osborne, Ind CONSULTING ENGINEERS

DESIGNED BY MTM

DRAWN BY HLT

CHECKED BY MTM

APPROVAL EBD

DATE JUN 2021



NORTHSHORE UTILITY DISTRICT

CONNECTION DETAILS

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

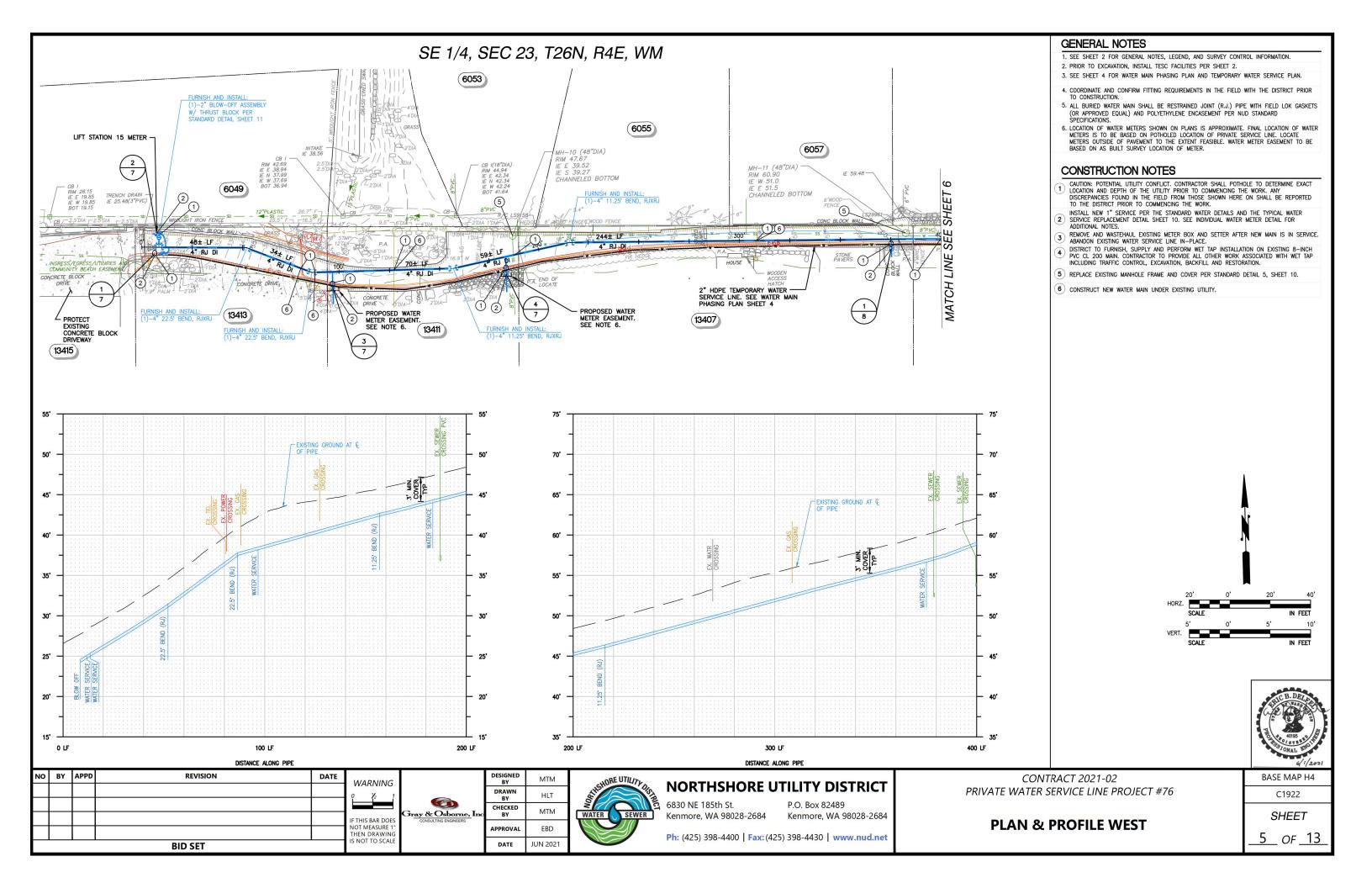
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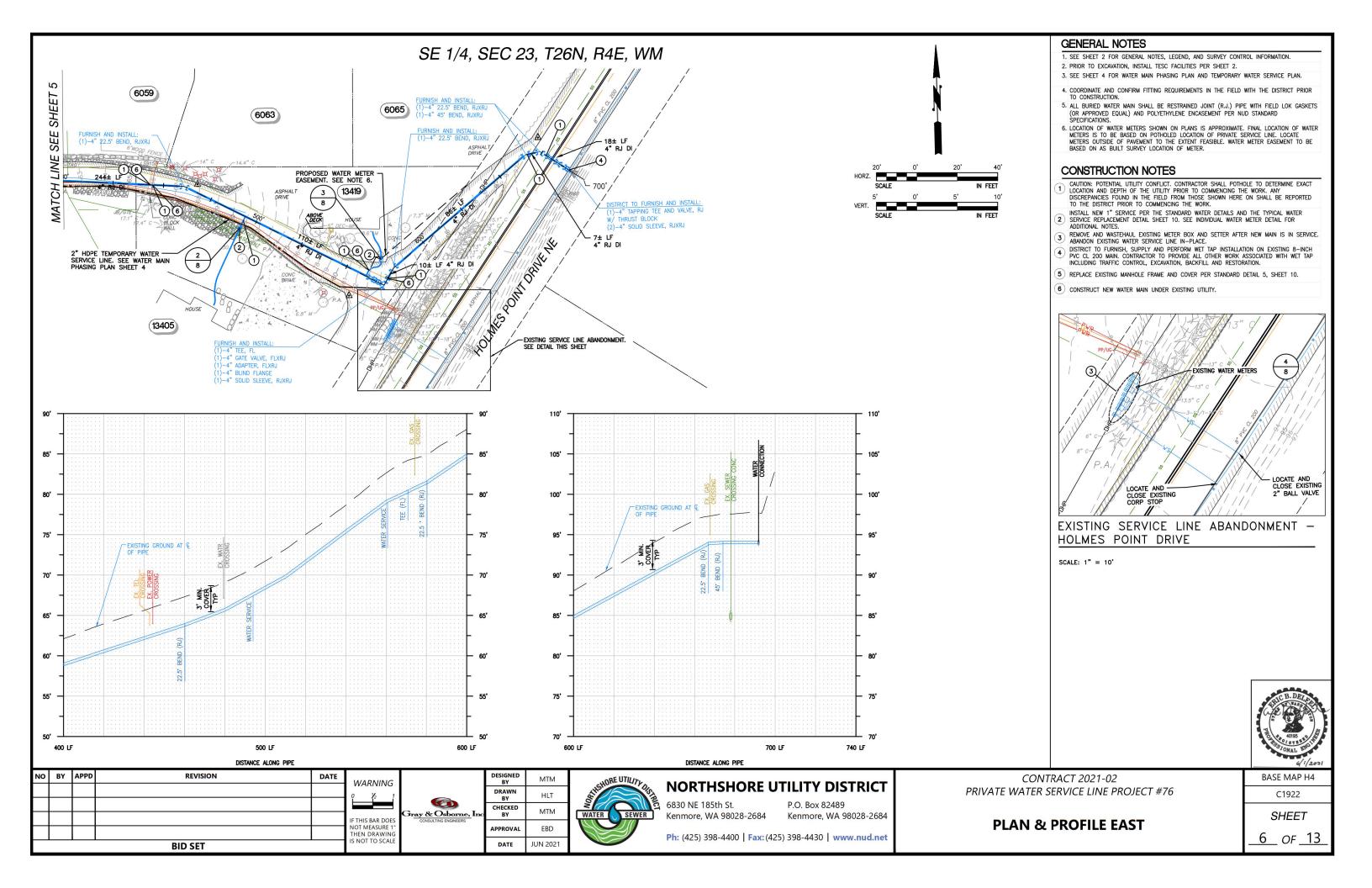
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CONTRACT 2021-02
PRIVATE WATER SERVICE LINE PROJECT #76

WATER MAIN PHASING PLAN

_	- 1			
BAS	SE MAP H4			
C1922				
SHEET				
4	OF 13	3		





PROPOSED BLOW-OFF -ASSEMBLY. SEE DETAIL PROPOSED 4" D.I. WATER MAIN. SEE SHEET 5. LIFT STATION 15 SERVICE, SEE DETAIL 2. GATE LIGHT POST ROTECT EXISTING CEMENT CONCRETE DRIVEWAY AND TRENCH DRAIN CONCRET 1 GATE 24 PROPOSED TEMPORARY 2" HDPE WATER SERVICE LINE, SEE SHEET 4. APPROXIMATE LOCATION OF EXISTING PRIVATE WATER SERVICE LINE, SIZE AND FXISTII TYPE UNKNOWN PROTECT EXISTING TREE FXISTING **PLAN**

13415 METER DETAIL

SCALE: 1"=4'-0"



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.
- 3 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 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 AFTER THE WATER MAIN INSTALLATION IS COMPLETE, INSTALL WATER SERVICE LINE FROM NEW WATER MAIN TO NEW METER SETTER PER DETAIL 4, SHEET 10.

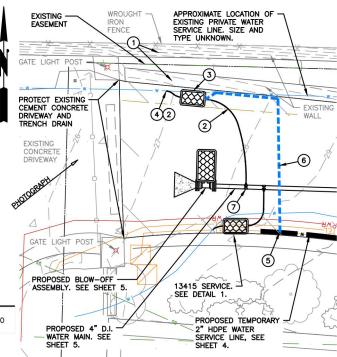
GENERAL NOTES

- 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
- 3 PROPOSED WATER METER LOCATION. SET NEW 1" METER BOX AND SETTER PER DETAIL 4, SHEET 10.
- 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
- 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

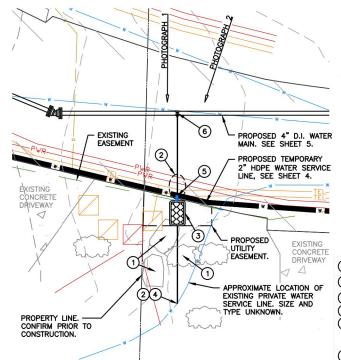
GENERAL NOTES

 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.



LIFT STATION NO. 15 METER DETAIL

SCALE: 1"=4'-0"



PLAN

SCALE: 1"=4'-0"

13413 METER DETAIL





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.
- 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 CUT
- 6 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 ORATION OF EXISTING LANDSCAPING FEATURES

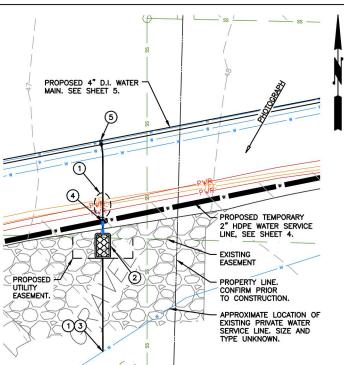
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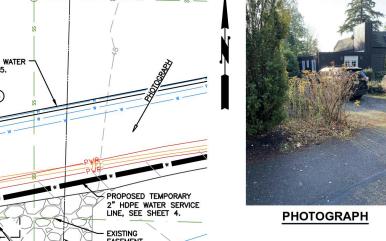
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JUN 2021



PLAN

13411 METER DETAIL

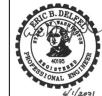


CONSTRUCTION NOTES

- 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

- HAND EXCAVATION FOR THE INSTALLATION OF WATER SERVICE PIPING AND METER BOX WILL BE REQUIRED 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.



CONTRACT 2021-02	
PRIVATE WATER SERVICE LINE PROJECT #76	

METER DETAILS

BASE MAP H4

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NORTHSHORE UTILITY DISTRICT

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

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

SCALE: 1"=4'-0"

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

PROPOSED 4" D.I. WATER MAIN. SEE SHEET 5. SS SS PROPOSED TEMPORARY 2" HDPE WATER SERVICE LINE SEE SHEET 4. EXISTING STONE PAYERS PROTECT EXISTING CONCRETE BLOCK WALL 1 1 13407 METER DETAIL

CONSTRUCTION NOTES

- 1 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.
- 4 CONNECT METER SEITER 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.
- (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

- HAND EXCAVATION FOR THE INSTALLATION
 OF WATER SERVICE PIPING AND METER
 BOX WILL BE REQUIRED TO AVOID
 EXCESSIVE DAMAGE TO EXISTING
 IMPROVEMENTS. CORDINATE 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

- 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 1

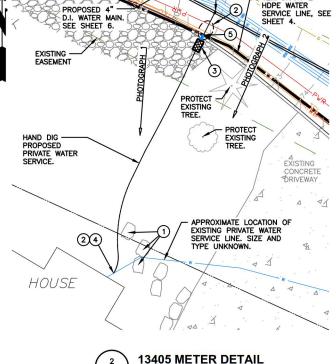


PHOTOGRAPH 2

CONSTRUCTION NOTES

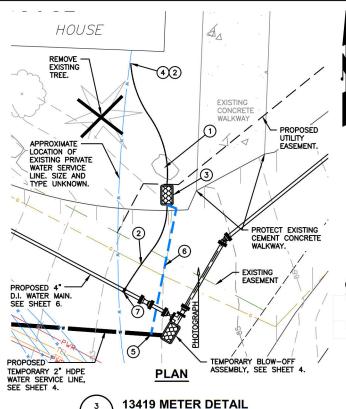
- TREMOVE AND RESET LARGE ROCKS IN LOCATIONS THAT DO NOT INTERFERE WITH NEW SERVICE. RESTORE AREA WITH LANDSCAPE BARK AND SHRUBS AS REQUIRED. SEE GENERAL NOTES 1 AND 2. POTHOLE TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES PRIOR TO COMMENCING WORK. ANY DISCREPANCIES FOUND IN THE FIELD FROM THOSE SHOWN HERE SHALL BE REPORTED TO THE DISTRICT PRIOR TO COMMENCING THE WORK.
- DISTRICT PRIOR TO COMMENCING THE WORK.

 3 PROPOSED WATER METER LOCATION. SET NEW 1" METER BOX AND SETTER PER DETAIL 4, SHEET 10.
- 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.



PROPOSED TEMPORARY 2"

2 13405 METER DETAIL 6 SCALE: 1"=8'-0"



SCALE: 1"=4'-0"



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
 CENERAL MOTES: AND 2.2
- 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.
- 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 IMPROVMENTS. 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.

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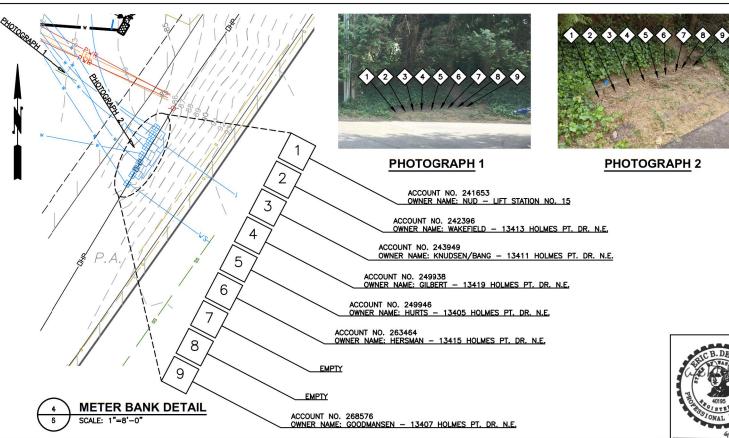
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SCALE: 1"=5'-0"





NORTHSHORE UTILITY DISTRICT

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

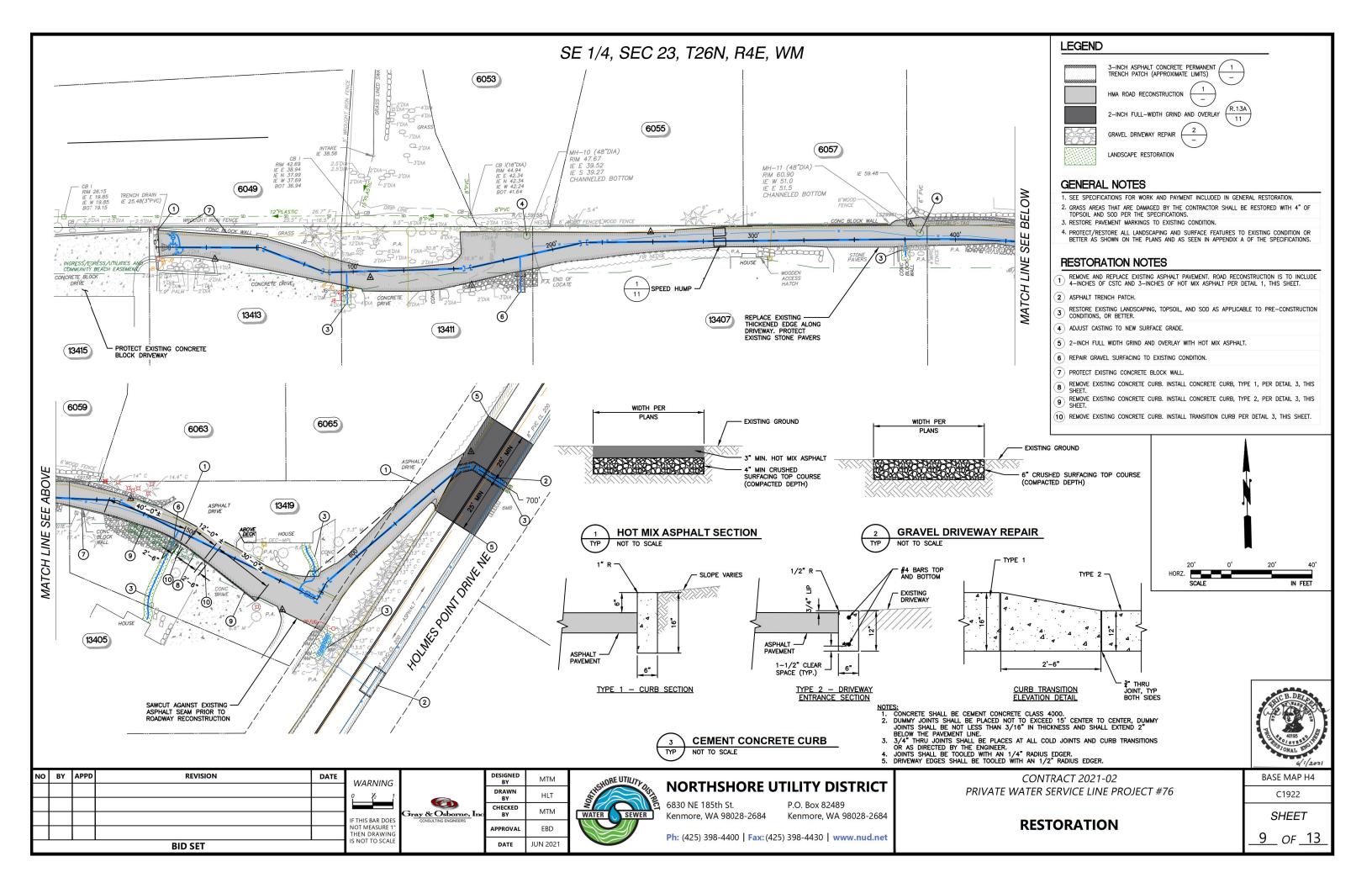
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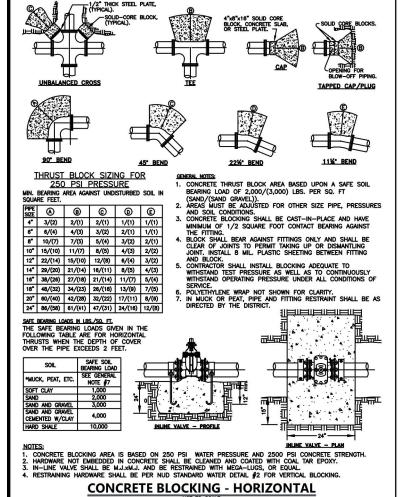
CONTRACT 2021-02 PRIVATE WATER SERVICE LINE PROJECT #76

METER DETAILS

SHEET

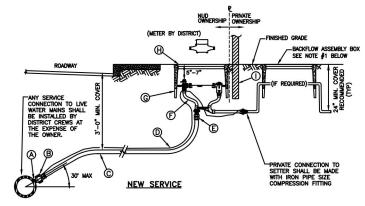
8 OF 13





DETAIL APPROVALS

MANAGER DPK

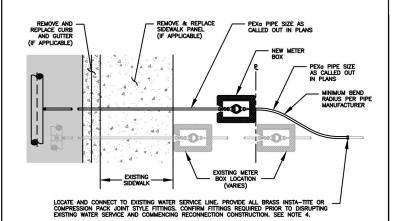


MATERIALS LIST

- 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, FORD FCD202, OR ROMAC 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 PEX $_0$ 3306, COPPER TUBE SIZE (CTS), SDR 9, AWWA C904, PER THE SPECIFICATIONS PIPE SHALL BE CONTINUOUS FROM CORPORATION STOP TO METER SETTER. ALL PEX $_0$ PIPE INSTALLED BY OPEN-CUT CONSTRUCTION SHALL BE BEDDED IN SAND 4" OVER AND UNDER. NATIVE MATERIAL WILL NOT BE ALLOWED FOR BEDDING.

- 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
- (H)
- 1 2"x4"x4', MARKER POST. BURIED AT PROPERTY LINE. PAINTED WHITE WITH "WATER" STENCILED ONTO IT IN BLACK
- 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. 2. ALL PEXa PIPE TO PACK JOINT CONNECTIONS REQUIRE A STIFFENER INSERT.
 - 1" WATER SERVICE

MODIFIED



- 5. ALL PEXG 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 PIGTAL AND PRIVATE WAITER SERVICE CONNECTIONS SHALL BE TESTED AT LINE PRESSURE AND SHALL BE VISIT 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.

EXISTING WATER SERVICE RE-CONNECTION

NORTHSHORE UTILITY DISTRICT



MANHOLE LOCKING FRAME AND COVER **NORTHSHORE UTILITY DISTRICT**

HINGE & GASKET VIEW

2" X 1" SLOTTED HOLES

PLAN VIEW

FRAME SECTION B-B

FRAME SECTION A-A

COVER SECTION

CAM LOCK VIEW

3 3/8" -

1 9/16"

2020 STANDARD SEWER DETAILS



NORTHSHORE UTILITY DISTRICT

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DETAIL APPROVALS

2021 STANDARD WATER DETAILS



DETAIL APPROVALS EDITOR MANAGER

2021 STANDARD WATER DETAILS



DETAIL APPROVALS EDITOR MANAGER SJD



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NORTHSHORE UTILITY DISTRICT

2020 STANDARD WATER DETAILS

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NORTHSHORE UTILITY DISTRICT

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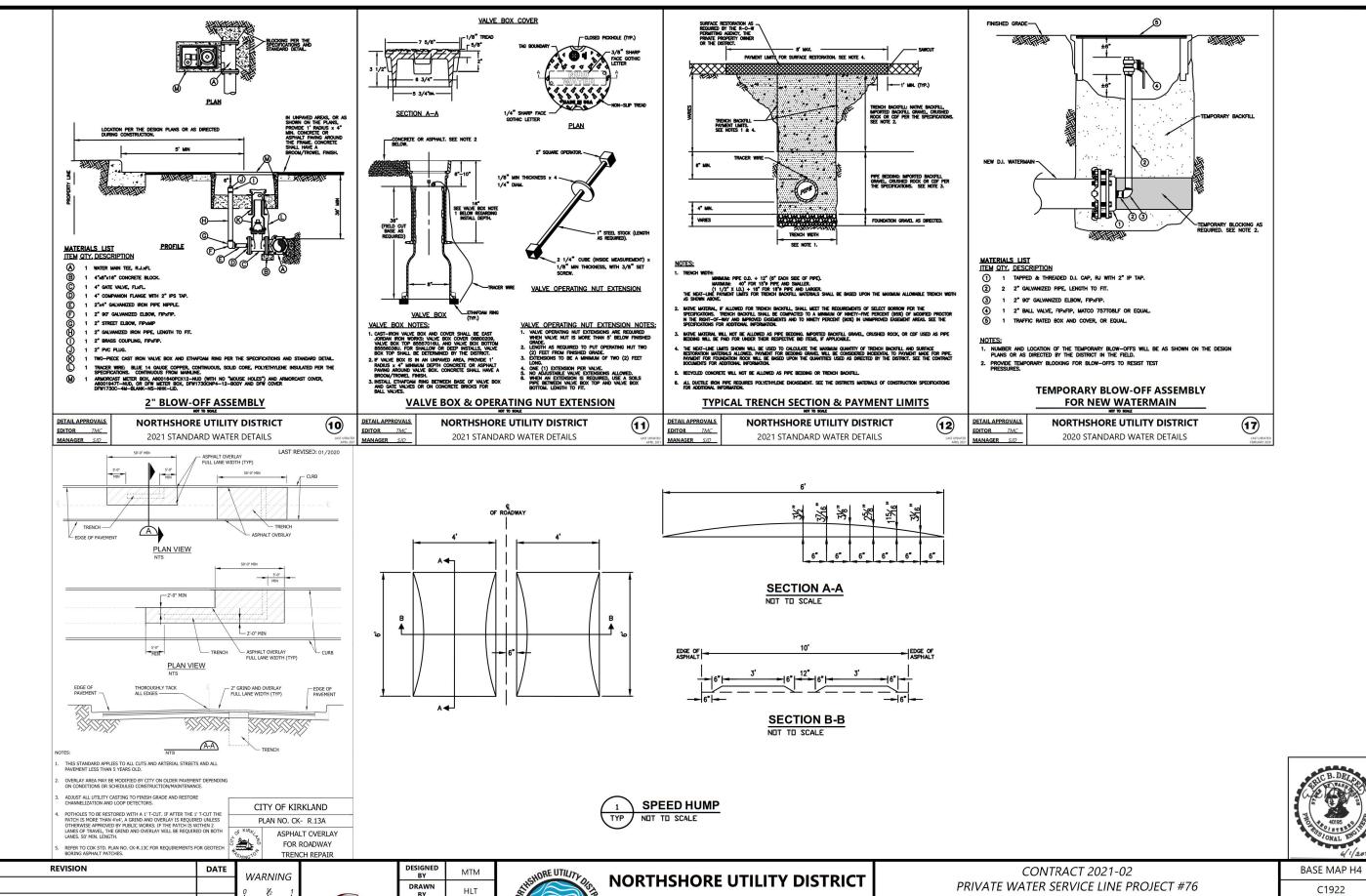
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HINGE POSITIONS

STANDARD DETAILS

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



6830 NE 185th St.

Kenmore, WA 98028-2684

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Kenmore, WA 98028-2684

NO BY APPD

BID SET

C1922 SHEET _11_ OF _13

STANDARD DETAILS

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



GENERAL NOTES

NO BY APPD

- 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

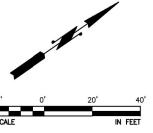
 LOOSE GRAVEL OR EARTH
- 5. OPEN TRENCHES WITHIN THE TRAVELED SHALL HAVE A STEEL—PLATE COVER PLACED AND ANCHORED OVER THEM. A WEDGE OF SUITABLE ASPHALT MATERIAL SHALL BE PLACED FOR A SMOOTH TRANSITION BETWEEN THE PAVEMENT AND THE STEEL PLATE. WARNING SIGNS SHALL BE USED TO ALERT MOTORISTS OF THE PRESENCE OF STEEL PLATES.
- 6. MAINTAIN ALL PRIVATE ROADWAY AND DRIVEWAY ACCESS AT ALL TIMES.
- SPACING SHOWN IS NOT TO SCALE. FIELD LOCATE TRAFFIC CONTROL DEVICES BASED ON THESE PLANS AND PER THE SPECIFICATIONS.

DATE

WARNING

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N .	FLAGGING STATION
	WORK ZONE

CHANNELIZATION DEVICE SPACING (FEET)					
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NORTHSHORE UTILITY DISTRICT

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CONTRACT 2021-02 PRIVATE WATER SERVICE LINE PROJECT #76

TRAFFIC CONTROL PLAN

6/1/20
BASE MAP H4
C1922
SHEET

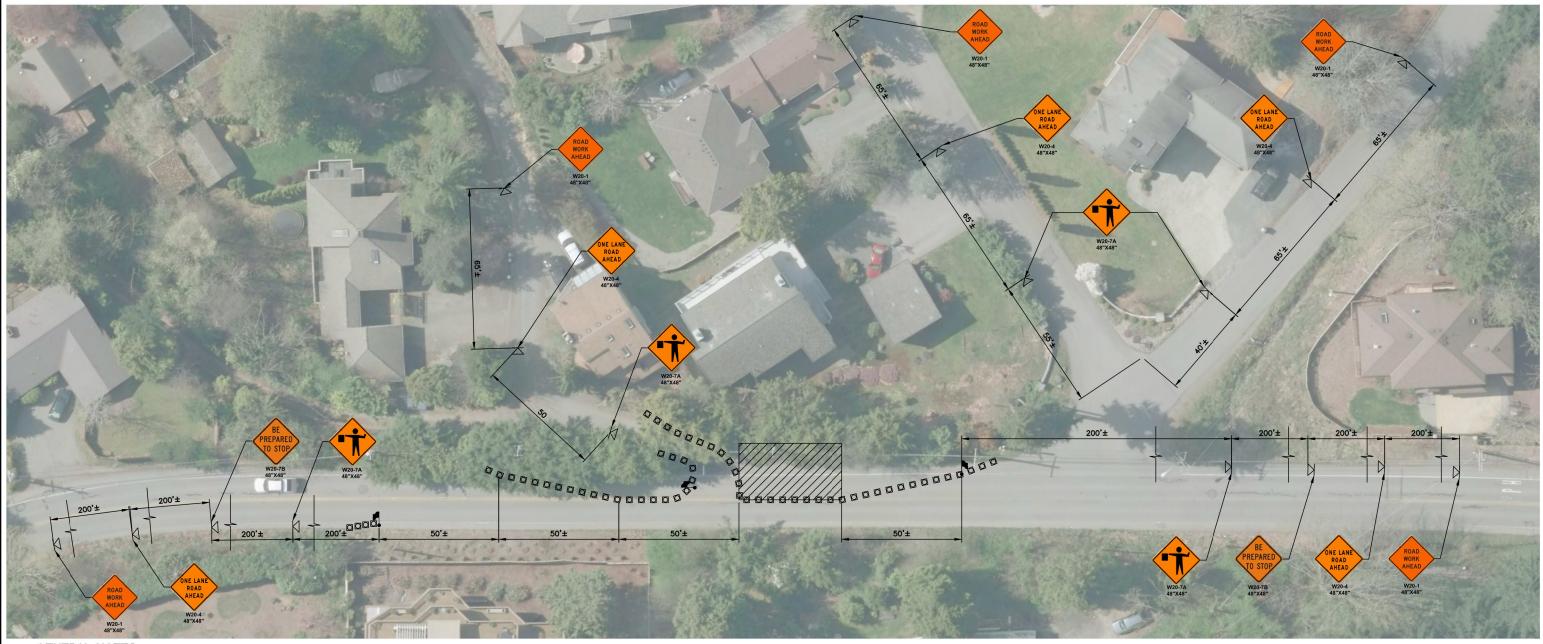
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Gr <u>ay & Osborne,</u> Inc	CHECKED BY	МТ
CONSULTING ENGINEERS	APPROVAL	EB
	DATE	JUN 2

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



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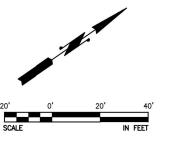
 ABRUPT LANE EDGE

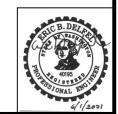
 STEEL PLATE

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	CHANNELIZING DEVICE
K	TEMPORARY SIGN LOCATION
•	FLAGGING STATION
	WORK ZONE

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





NORTHSHORE UTILITY DISTRICT	
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TRAFFIC CONTROL PLAN

CONTRACT 2021-02

PRIVATE WATER SERVICE LINE PROJECT #76

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CONSULTING ENGINEERS	APPROVAL	EBD
	DATE	JUN 2021

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