

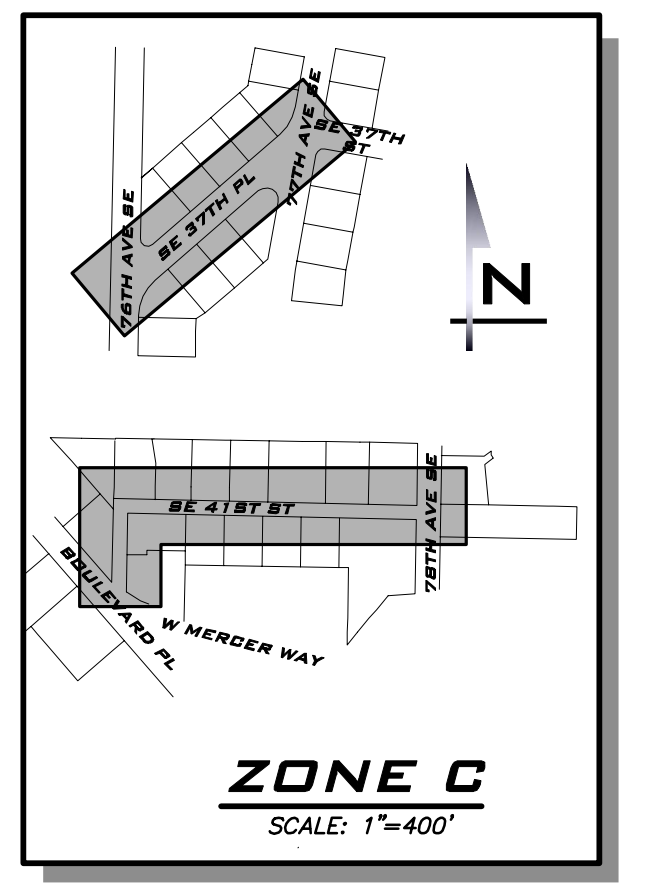
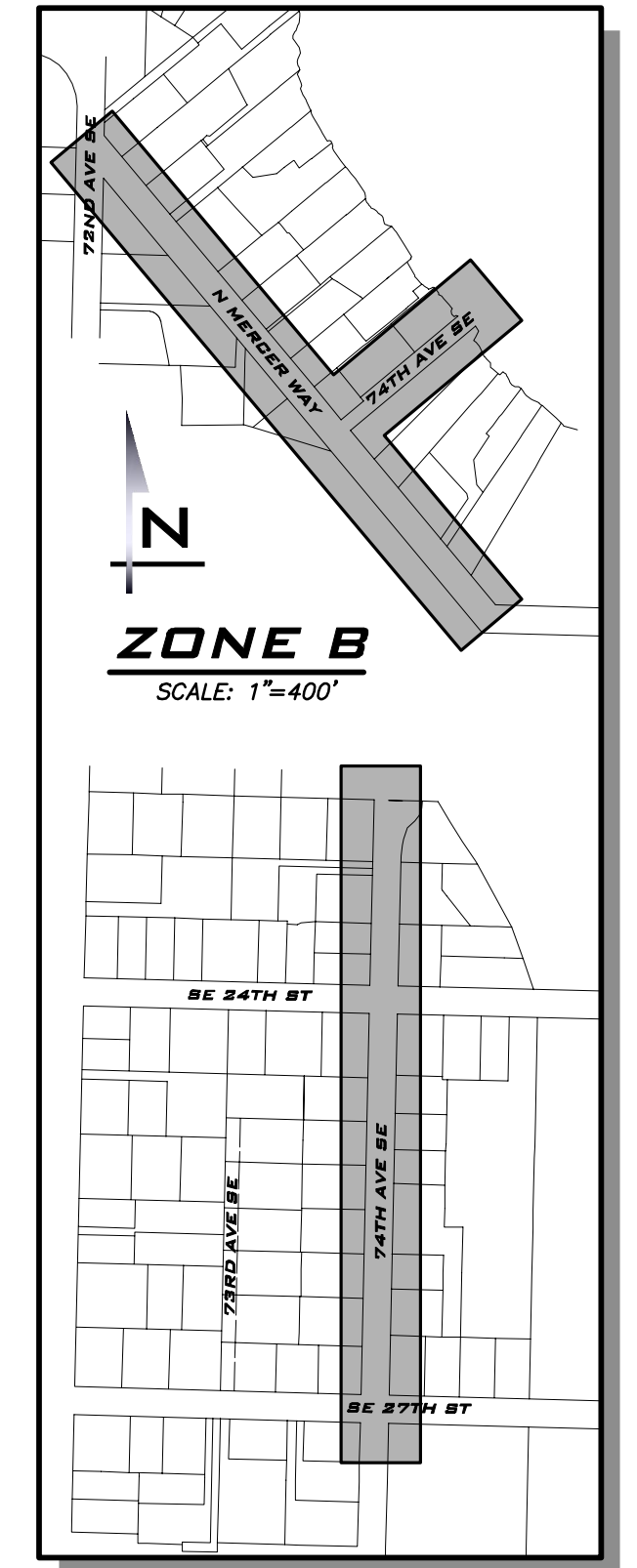
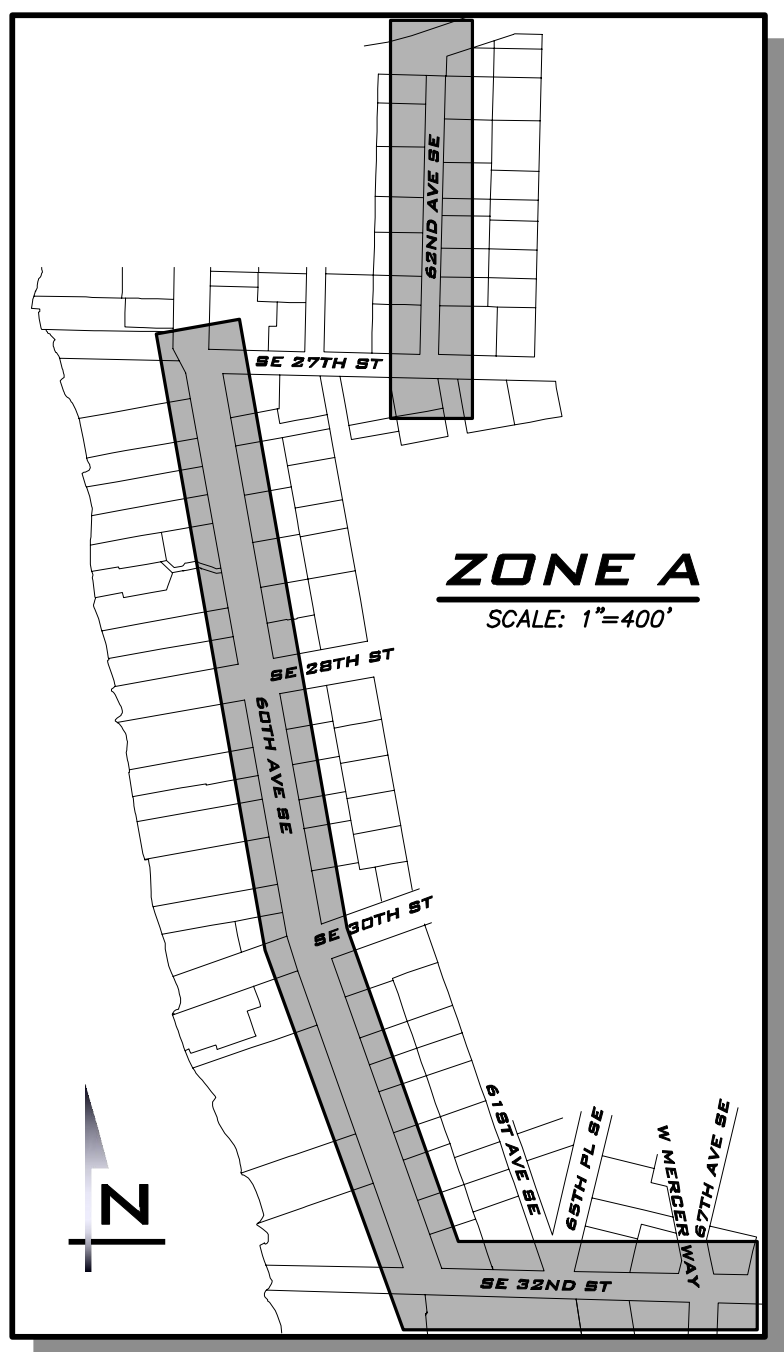
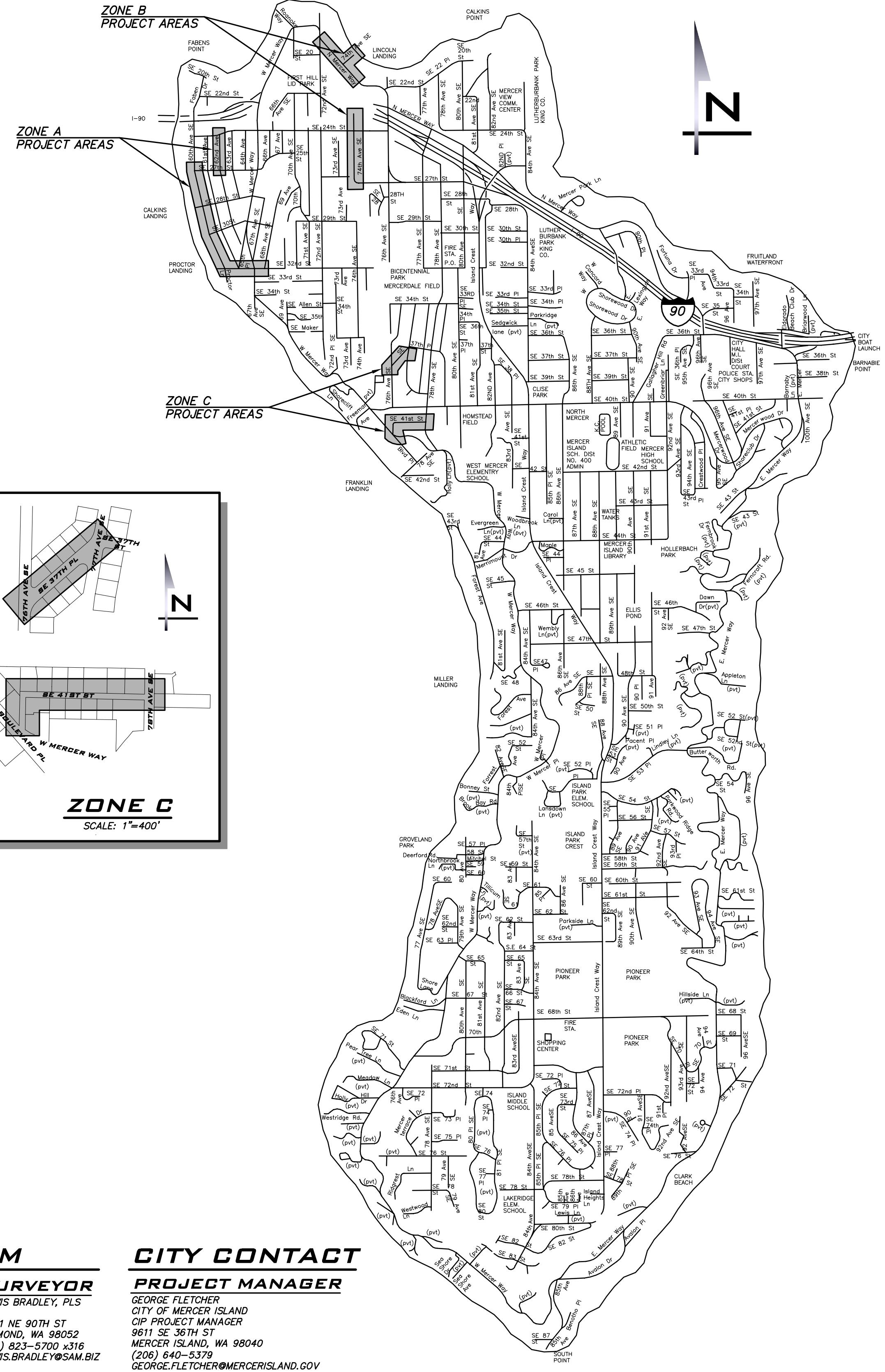
CITY OF MERCER ISLAND 2023 WATER SYSTEM IMPROVEMENTS PROJECT



SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023

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50	RR-07	ROAD RESTORATION PLAN - ZONE A
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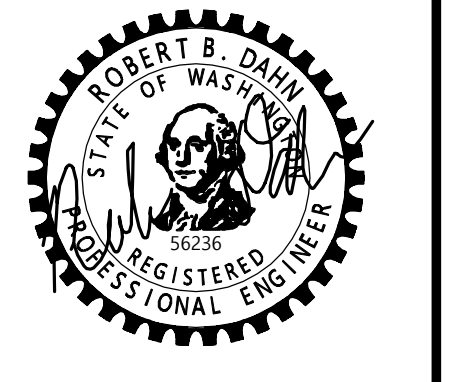
EXISTING UTILITY NOTE
EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

PROJECT TEAM
CIVIL ENGINEER
ROB DAHN, PE
BLUELINE
25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
(425) 250-7243
ROBDAHN@THEBLUELINEGROUP.COM

SURVEYOR
TRAVIS BRADLEY, PLS
SAM
15241 NE 90TH ST
REDMOND, WA 98052
(425) 823-5700 x316
TRAVIS.BRADLEY@SAM.BIZ

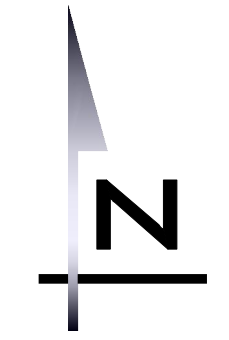
CITY CONTACT
PROJECT MANAGER
GEORGE FLETCHER
CITY OF MERCER ISLAND
CIP PROJECT MANAGER
9611 SE 36TH ST
MERCER ISLAND, WA 98040
(206) 640-5379
GEORGE.FLETCHER@MERCERISLAND.GOV

COVER SHEET
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
CV-01

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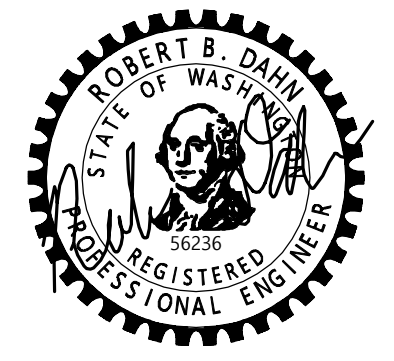
BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

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KEY MAP
2023 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

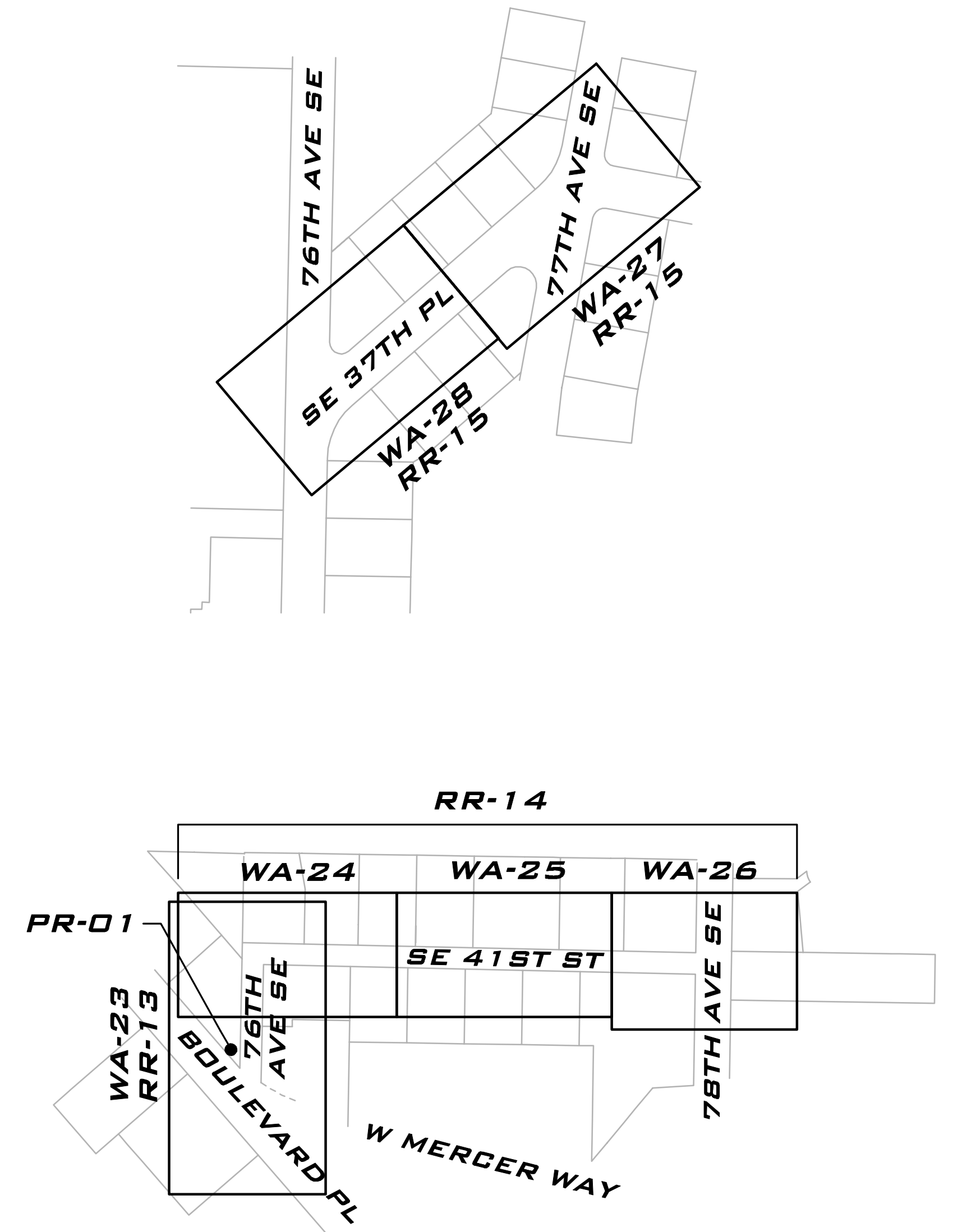
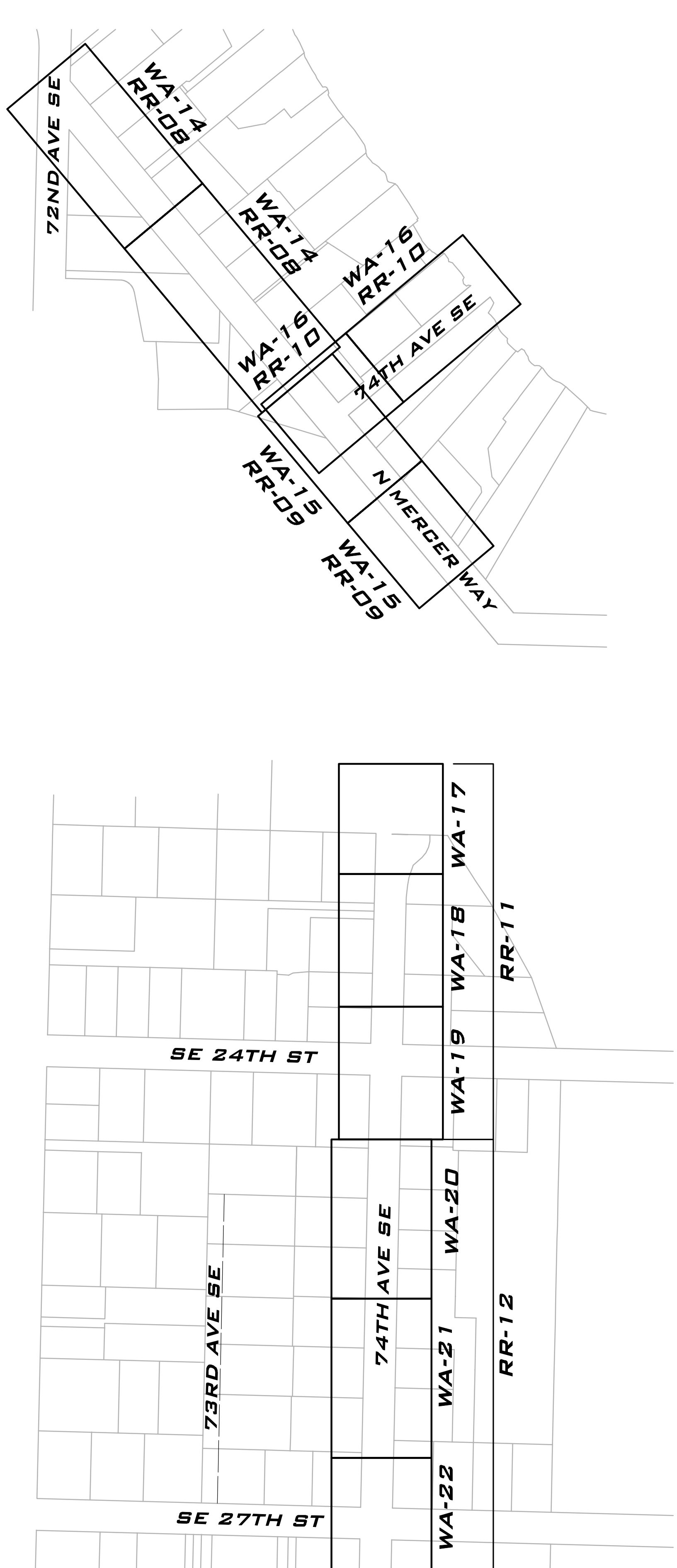
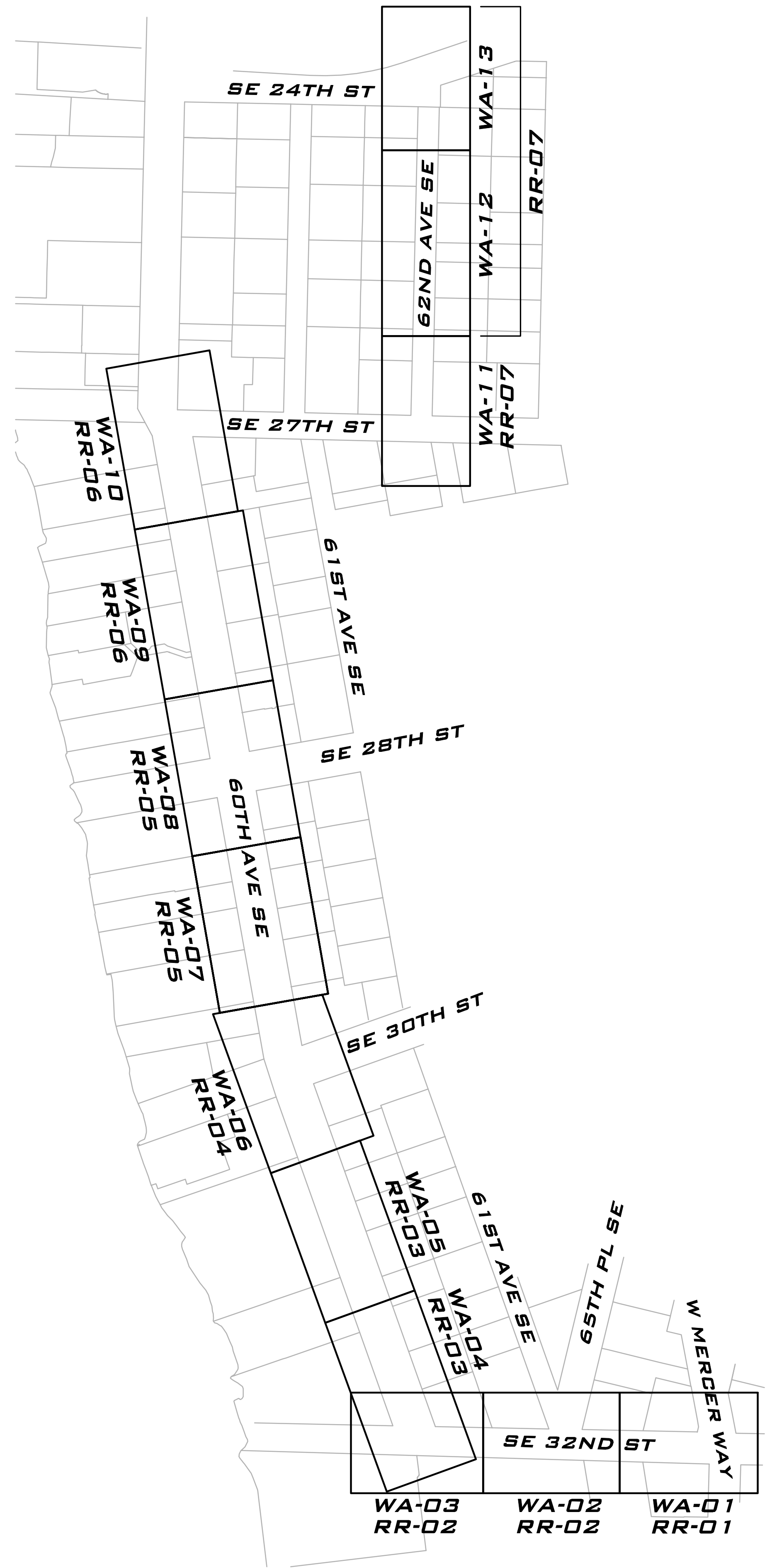


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SHEET NAME:
KM-01

SHT **2** OF **68**



GENERAL NOTES

- ALL MATERIALS AND WORK SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF MERCER ISLAND STANDARD PLANS AND SPECIFICATIONS IN CONJUNCTION WITH THE APPLICABLE SECTIONS OF THE 2022 EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS ISSUED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION. A COPY OF THESE DOCUMENTS SHALL BE ON SITE DURING CONSTRUCTION.
- A COPY OF THE APPROVED PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- PAVED SURFACES INCLUDING ROADWAYS, SIDEWALKS, DRIVEWAYS, AND CURBS THAT ARE DAMAGED BY NEW CONSTRUCTION SHALL BE REPAIRED AS REQUIRED BY THE CITY OF MERCER ISLAND INSPECTOR.
- THE CONTRACTOR SHALL NOTIFY THE CITY 21 DAYS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE.
- ALL LOCATIONS OF EXISTING UTILITIES AND SERVICE CONNECTIONS SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY, G.I.S., OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
- THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (8-1-1) AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL KEEP OFF-SITE STREETS CLEAN AT ALL TIMES BY SWEEPING, WASHING OF THESE STREETS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE CITY OF MERCER ISLAND.
- THE CONTRACTOR SHALL SECURE ALL LOADS PER RCW 46.61.655.
- PROTECT ALL LANDSCAPING AND TREES FROM DAMAGE UNLESS SPECIFICALLY CALLED OUT ON PLANS TO BE REMOVED. REPLACE ALL TREES, LANDSCAPING, AND LANDSCAPING IRRIGATION DAMAGED OR DESTROYED DURING CONSTRUCTION.
- TRIM OR REMOVE PLANTS, IF NEEDED, TO ACCOMMODATE THE RELOCATION OF HYDRANTS AND METER BOXES. PROVIDE LANDSCAPE RESTORATION TO MATCH EXISTING SURROUNDINGS.
- PROVIDE HYDROSEED FOR ALL UNPAVED AND NON-GRAVEL AREAS DISTURBED DURING CONSTRUCTION.
- NO EXPOSED EXCAVATION IS ALLOWED OVERNIGHT. STEEL PLATES MAY BE USED ONLY FOR PRE-DIGGING CONNECTIONS OR WHEN COF IS REQUIRED AS BACKFILL. WHEN USING TEMPORARY STEEL PLATES, THEY SHALL BE RAMPED WITH TEMPORARY HOT MIX ASPHALT AND THE CONSTRUCTION AREA SHALL BE SIGNED AT THE END OF THE WORKING DAY UNLESS USING STEEL PLATES. BACKFILL TO GRADE AND PROVIDE 2" TEMPORARY PATCH AT THE END OF EACH WORK DAY. ASPHALT GRINDINGS MAY BE USED AS TEMP PATCH MONDAY-THURSDAY, WITH 2" HMA PATCH PROVIDED ON FRIDAYS. IN THE EVENT OF INCLEMENT WEATHER, THE INSPECTOR MAY REQUIRE 2" HMA PATCH BE PROVIDED MORE FREQUENTLY.

TRAFFIC CONTROL NOTES

- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE CITY OF MERCER ISLAND PRIOR TO BEGINNING CONSTRUCTION.
- ALL TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF MERCER ISLAND.
- ALL TRAFFIC CONTROL DEVICES SHALL MEET THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES STANDARDS.
- CONTRACTOR SHALL NOTIFY KING COUNTY METRO AT 206-684-2732 SEVEN DAYS IN ADVANCE OF ANY IMPACT TO TRANSIT OPERATIONS.
- THE CONTRACTOR SHALL PROVIDE EMERGENCY VEHICLE ACCESS TO ALL PROPERTIES ADJACENT TO THE PROJECT AT ALL TIMES.

TESC NOTES

- THE CONTRACTOR SHALL HAVE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) MEASURES IN PLACE PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE NATURAL OR PUBLIC DRAINAGE SYSTEM. AS CONSTRUCTION PROGRESSES AND UNEXPECTED (SEASONAL) CONDITIONS DICTATE, MORE SILTATION CONTROL FACILITIES MAY BE REQUIRED TO INSURE COMPLETE SILTATION CONTROL OF THE PROJECT. 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 HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.
- THE CITY MAY DIRECT MAINTENANCE AND REPAIR OF TESC FACILITIES AS THE HIGHEST PRIORITY WORK AT ANY TIME THE TESC FACILITIES DO NOT MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

GENERAL WATER NOTES

- LOCATIONS SHOWN FOR EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. UTILITIES HAVING NO RECORDED DEPTH ARE SHOWN AT THEIR STANDARD DEPTH. UTILITIES THAT APPEAR CLOSE TO THE PROPOSED WATER MAIN SHALL BE EXPOSED BY THE CONTRACTOR PRIOR TO LAYING THE WATER MAIN TO DETERMINE IF CHANGES ARE NEEDED.
- ALL MATERIAL FOR WATER DISTRIBUTION SHALL BE NEW.
- PIPE 4" AND LARGER SHALL BE D.I.P. CL. 52 CONFORMING TO AWWA C-151 WITH CEMENT MORTAR LINING CONFORMING TO AWWA C-104. UNLESS OTHERWISE NOTED, JOINTS SHALL BE MECHANICAL OR SLIP JOINT.
- ALL FITTINGS SHALL BE DUCTILE IRON CONFORMING TO AWWA C-110 AND C-111, OR AWWA C-153, AND SHALL BE CEMENT MORTAR LINED CONFORMING TO AWWA C-104. THRUST RESTRAINT REQUIRED AT ALL FITTINGS AND AT LOCATIONS INDICATED IN PLANS.
- PRIOR TO LAYING PIPE THE CONTRACTOR SHALL:
 - IN THE PRESENCE OF THE CONSTRUCTION INSPECTOR, EXPOSE THE EXISTING WATER MAIN TO DETERMINE ITS ELEVATION AND ALIGNMENT.
 - PROVIDE ALL STAKING REQUIRED TO DEFINE THE ALIGNMENT AND ELEVATIONS OF THE WATER MAIN IN CONFORMANCE WITH THE APPROVED PLAN. THE SURVEYS SHALL BE PERFORMED BY A SURVEYOR LICENSED BY THE STATE OF WASHINGTON. ALL REFERENCE MARKS SHALL BE PRESERVED DURING CONSTRUCTION. A GRADE SHEET, IN ACCEPTABLE FORMAT, SHALL BE PROVIDED PRIOR TO BEGINNING WORK.
 - THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES BY POTHOLING AT LEAST 500' AHEAD OF THE PIPE LAYING OPERATION TO ALLOW THE REQUIRED CLEARANCES TO BE ACHIEVED BY DEFLECTING THE WATER LINE AT THE JOINTS.
 - THE CONTRACTOR SHALL NOTIFY ALL OWNERS OF ALL AFFECTED UNDERGROUND UTILITIES A MINIMUM OF 2 BUSINESS DAYS BEFORE FIELD LOCATING THEIR UTILITIES. THE ONE CALL NOTIFICATION NUMBER IS 1-800-424-5555.
 - CARE SHALL BE EXERCISED WHEN EXCAVATING NEAR EXISTING CHARGED WATER MAINS AND FORCE SEWER MAINS.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL DUCTILE IRON PIPE IN PLACE OF ANY OTHER SANITARY SEWER PIPE MATERIAL WHERE SANITARY SEWERS ARE LOCATED ABOVE AND ANY CLOSER THAN 10 FEET, OR CROSS OVER ANY WATER LINE.
 - ALL WATER MAINS SHALL BE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ALL PRESSURE TESTING SHALL BE DONE IN THE PRESENCE OF THE CONSTRUCTION INSPECTOR. THE CONTRACTOR IS TO PROVIDE PLUGS AND TEMPORARY BLOWOFF ASSEMBLIES FOR PRESSURE TESTING AND DISINFECTION. A SATISFACTORY LAB RESULT FOR THE WATER SAMPLES COLLECTED AFTER THE FLUSHING SHALL BE RECEIVED BY THE CITY PRIOR TO PUTTING THE MAIN INTO SERVICE.
 - THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS ISSUED FOR THIS PROJECT.
 - THRUST BLOCKING SHALL BE PROVIDED FOR ALL TEES, BENDS, CAPS, DEAD-ENDS, AND CROSSES, AND SHALL COMPLY WITH CITY OF MERCER ISLAND STANDARD DETAIL W-5 UNLESS SPECIFICALLY CALLED OUT ON THE PLANS THAT BLOCKING IS NOT REQUIRED. IF CONFLICTING UTILITIES PREVENT THE USE OF A THRUST BLOCK IN COMPLIANCE WITH THE STANDARD DETAIL, THE CONTRACTOR SHALL INSTALL ROMAGRIPS OR FIELD LOC GASKETS, AS REQUIRED BY THE ENGINEER.
 - WATER MAIN SHUT-OFF SHALL BE COORDINATED WITH THE CITY OF MERCER ISLAND. 21 DAYS ADVANCED NOTICE IS REQUIRED. REFER TO SPECIFICATION SECTIONS 7-09.3(19)A AND 7-09.3(19)B.
 - ALL WATER SERVICE PIPING MUST BE INSPECTED PRIOR TO BACKFILLING TRENCH.
 - WATER SERVICE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF MERCER ISLAND SPECIFICATIONS SECTION 7-15, STANDARD DETAILS W-13, W-14, AND W-14A, AND APPLICABLE WSDOT STANDARDS.
 - PROVIDE FITTINGS, BENDS, AND BLOCKING AS REQUIRED TO MAKE SERVICE CONNECTION.
 - PROVIDE ALL GATE VALVES WITH WATER VALVE BOXES PER MERCER ISLAND STANDARD DETAILS W-7 AND W-8. IF REQUIRED, INSTALL WATER VALVE EXTENSIONS PER MERCER ISLAND STANDARD DETAIL W-9.
 - FIRE HYDRANT INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF MERCER ISLAND SPECIFICATIONS SECTION 7-14 AND STANDARD DETAIL W-24. CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO DETERMINE THE REQUIRED HYDRANT BURY DEPTH TO INSTALL HYDRANTS WITHOUT USING VERTICAL BENDS. THIS POTHOLING SHALL BE DONE EARLY ENOUGH TO ALLOW PROPER DEPTH HYDRANTS TO BE ORDERED.
 - A TEMPORARY HYDRANT METER AND BACKFLOW DEVICE ARE REQUIRED PER SPECIFICATION SECTION 7-00.1 WHEN USING CITY WATER FOR CONSTRUCTION, INCLUDING FLUSHING THE MAIN TESTING OF BACKFLOW DEVICE SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
 - WHEN FLUSHING THE MAIN, DISCHARGED WATER MUST BE DRAINED INTO THE SANITARY SEWER SYSTEM. THIS DISCHARGE MUST BE COORDINATED WITH THE CITY UTILITIES MANAGER.
 - ANY REMOVED FIRE HYDRANTS, VALVES, SETTERS, AND OTHER METER HARDWARE SHALL BE RETURNED TO THE CITY STORAGE YARD AS SALVAGE. THE CITY WILL SUPPLY NEW METERS.
 - ABANDON EXISTING WATER SERVICE IN PLACE WHERE NEW 1" THROUGH 2" SERVICE LINES ARE INSTALLED. TURN OFF CORP STOP TO ABANDON SERVICE AT METER. ROLL OVER ON SIDE AND BURY ABANDONED SERVICE.
 - MAXIMUM PIPE DEFLECTION AT JOINTS SHALL BE HALF THE MANUFACTURER'S ALLOWABLE DEFLECTION UNLESS OTHERWISE SPECIFIED.
 - CONTRACTOR SHALL COORDINATE CONSTRUCTION W/ PUGET SOUND ENERGY (PSE) PRIOR TO EXCAVATION NEAR GAS MAINS. THE PSE REPRESENTATIVE SHALL (AT A MINIMUM) BE ON SITE FOR CONSTRUCTION AROUND 4" DIAMETER AND LARGER AND/OR HIGH PRESSURE GAS MAIN. PROVIDE SAND BEDDING PER PSE REQUIREMENTS.
 - CONTRACTOR SHALL POTHOLE AT ALL LOCATIONS WHERE PROPOSED WATER MAIN & FIRE HYDRANT LATERAL CROSS THE EXISTING WATER MAIN, STORM DRAIN OR SEWER MAIN & SERVICES TO VERIFY DEPTH OF EXISTING MAIN IN ACCORDANCE WITH SPECIFICATION SECTION 1-07.17(2). FIRE HYDRANT LATERALS SHALL BE INSTALLED ABOVE OR BELOW EXISTING MAIN, STORM DRAIN AND SEWER MAIN WITHOUT USING BENDS. CONTRACTOR IS REQUIRED TO DETERMINE IF NEW WATER MAIN NEEDS TO BE INSTALLED DEEPER TO ACCOMPLISH THIS.
 - CONTRACTOR TO LOCATE AIR & VACUUM VALVE ASSEMBLY TEE AT HIGH POINT OF NEW MAIN. INSTALLATION OF AIR RELEASE ASSEMBLY MAY REQUIRE MORE THAN 3' OF COVER AT NEW MAIN. SEE CITY OF MERCER ISLAND STANDARD DETAIL W-25.
 - ALL TEMPORARY BLOW-OFFS MUST BE LOCATED OUTSIDE OF THE ROADWAY. ALL PARTS USED IN SETTING THE TEMPORARY BLOW-OFF SHALL BE PER THE TEMPORARY BLOW-OFF DETAIL ON SHEET WD-01.
 - ALL MONUMENTS DISTURBED BY CONSTRUCTION ARE TO BE REPLACED BY A LICENSED SURVEYOR. CONTRACTOR SHALL NOTIFY SURVEYOR 1 WEEK IN ADVANCE OF DISTURBING MONUMENT SO SURVEY CAN BE IN THE MONUMENT AND FILE PAPERWORK WITH THE STATE PRIOR TO MONUMENT BEING DISTURBED.

LEGEND

PROPOSED WATER


- WATER MAIN
- FIRE HYDRANT
- WATER METER
- IRRIGATION METER
- AIR/VAC RELEASE VALVE
- BLOW OFF
- GATE VALVE
- TEE W/ CONC BLOCKING
- BEND W/ CONC BLOCKING
- REDUCER
- SLEEVE
- COUPLING

EXISTING FEATURES

- PLAT/PARCEL LINE
- RIGHT-OF-WAY
- CENTERLINE
- EASEMENT
- SURFACE FEATURES
- BUILDING FOOTPRINT
- FLOWLINE
- TIE LINE
- CHANNELIZATION
- EDGE OF LANDSCAPE
- 10' CONTOURS
- 2' CONTOURS
- SD - STORM DRAIN PIPE
- SS - SEWER MAIN
- W - WATER MAIN
- GP - AERIAL POWER LINE
- BURIED POWER LINE
- G - GAS MAIN
- C - BURIED CABLE
- T - BURIED TELECOMM LINE
- F - BURIED FIBER OPTIC CABLE
- X - FENCE
- DITCH OR SWALE
- RETAINING WALL
- ROCKERY
- CATCH BASIN, TYPE I
- CATCH BASIN, TYPE II
- PIPE FLOW
- YARD DRAIN
- STORM CLEANOUT
- STORM CULVERT END
- SEWER MANHOLE
- SEWER CLEANOUT
- FIRE HYDRANT
- WATER METER
- GATE VALVE
- WATER INDICATOR POST
- BLOW OFF
- IRRIGATION VALVE
- HOSE BIB
- UP (UTILITY POLE)
- UP W/ TRANSFORMER
- UP W/ UNDERGROUND CONDUIT
- UP W/ TRANSFORMER & UNDERGROUND CONDUIT
- STREET LIGHT
- STREET LIGHT W/ UNDERGROUND CONDUIT
- STREET LIGHT W/ TRANSFORMER & UNDERGROUND CONDUIT
- STREET LIGHT
- POWER POLE
- GUY ANCHOR
- UTILITY POLE W/ LIGHT
- POLE LIGHT
- POWER VAULT
- POWER STUB
- TRANSFORMER
- POWER METER
- JUNCTION BOX
- GAS VALVE
- TELECOMM VAULT
- TELECOMM RISER
- TELECOMM JUNCTION BOX
- TELECOMM MANHOLE
- MAIL BOX
- SIGN
- BOLLARD
- POST
- LANDSCAPE BOULDER
- HEDGE
- SHRUB
- CONIFEROUS TREE
- DECIDUOUS TREE
- STUMP
- GATE
- ASPHALT
- CONCRETE
- GRAVEL
- BRICK

POTHOLE DATA

POTHOLE #	TARGET UTILITY	DEPTH TO TOP OF UTILITY (INCHES)	DEPTH TO BOTTOM OF UTILITY (INCHES)	PIPE CONDUIT SIZE (INCHES)	PIPE MATERIAL	ASPHALT THICKNESS (INCHES)	CONCRETE THICKNESS (INCHES)
1	STORM	24	42	18	DI	6	N/A
2	GAS	57	63	6	PE	12	N/A
3	WATER	24	N/A	N/A	CONC	4	N/A
3A	WATER	30	46	16	DI	4	N/A
4	N/A	N/A	N/A	N/A	N/A	2	8
5	GAS	58	64	6	PE	2	7
6	N/A	N/A	N/A	N/A	N/A	3	9



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

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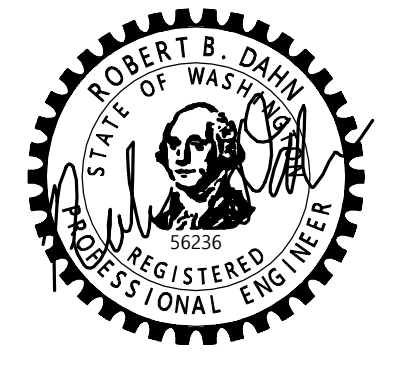
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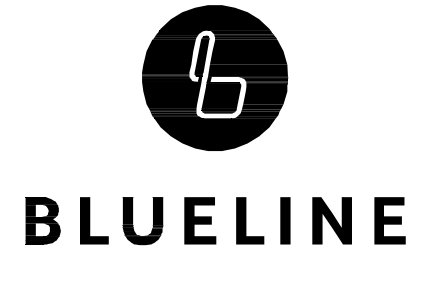
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GN-01

SHT **3** OF **68**

LAST NAME	ADDRESS	UTILITY BILLING METER # (REGISTER #)	EXISTING METER SIZE	METER MAKE	REPLACING METER (Y/N)?	REPLACE METER BOX (Y/N)?	TRAFFIC BEARING	MOVING METER (Y/N)?	METER RELOCATION INFO/COMMENTS	Radio Read / MXU	OTHER INFO (PRV, FIRE, OR IRRIGATION)?
ZONE A (SE 32nd St)											
KIM	3085 W MERCER WAY	68813890	5/8"	SENSUS	N	Y	N	Y	15'W		
MERCER ISLAND	5960 SE 32ND ST	33712059	5/8"	ROCKWELL	N	Y	N	N			
PROCTOR LANDING LLC	5999 SE 32ND ST	55602244	2"	SENSUS	Y	Y	N	N			
PROCTOR LANDING LLC	5999 SE 32ND ST	33712059	5/8"	ROCKWELL	Y	Y	N	N			
ANDERSON	6004 SE 32ND ST	53910063	1"		N	Y	N	N			
PROCTOR LANE TRUST	6005 SE 32ND ST	11917491	1.5"	METRON	N	Y	N	N			
PROCTOR LANE TRUST	6005 SE 32ND ST	F39895232	3/4"		N	Y	N	N			PRIVATE IRRIGATION
SEIDEL	6012 SE 32ND ST	53138626	1"		N	Y	N	N			
6027 32ND ST LLC	6025 SE 32ND ST	34844355	5/8"	ROCKWELL	N	N	N	N			
PRITT	6027 SE 32ND ST	37019492	1"	ROCKWELL	N	Y	Y	Y	3'E		
PRITT	6031 SE 32ND ST	11010225	1.5"	METRON	N	N	N	N			
JOHNSTON	6033 SE 32ND ST	67300811	1"	ROCKWELL	N	N	N	N			
LIBBY	6105 SE 32ND ST	37019483	1"	ROCKWELL	N	Y	N	Y	MOVE OUT OF CONCRETE PAD		
ZONE A (60th Ave SE)											
PETER	2669 60TH AVE SE		1"	SENSUS	N	Y	Y	Y	14' SW		
TUTLAND	2701 60TH AVE SE	33200145	1"	SENSUS	N	Y	Y	Y	1'S	12717024	
SCHWARTZ	2711 60TH AVE SE	37019454	1"	ROCKWELL	N	Y	Y	N	IN PAVERS		
JACOBSON	2718 60TH AVE SE	11918139	1.5"	METRON	N	Y	N	N		RR/ MXU 15342951	
ETSEKSON	2721 60TH AVE SE	53001298	1.5"	METRON	Y	Y	Y	N		15259233	
PATRICK M. JULIAN	2725 60TH AVE SE	8914055	1"	MASTER METER	N	Y	Y	N			
ETSEKSON	2727 60TH AVE SE	31256417	5/8"	ROCKWELL	N	Y	N	Y	15'W		
CHIU	2728 60TH AVE SE	32363419	5/8"	ROCKWELL	N	Y	N	N			
RECK	2731 60TH AVE SE	9972921	3/4"	MASTER METER	N	Y	N	Y	3'E		
TRETHERWEY	2733 60TH AVE SE	36285308	3/4"	ROCKWELL	N	Y	N	Y	2'N		
TINDALL	2737 60TH AVE SE	36883226	3/4"	ROCKWELL	N	Y	N	Y	2'S		
CHIU	2744 60TH AVE SE	55600022	1"	SENSUS	N	Y	N	Y	6' W		
ROODMAN	2749 60TH AVE SE	54765327	1"	SENSUS	N	Y	N	Y	2'E		
HENRIKSSON	2750 60TH AVE SE	32706393	3/4"	ROCKWELL	N	Y	N	Y	3'S		
GRAINGER	2755 60TH AVE SE	54744796	1"	INVENSYS	N	Y	Y	N			
SOELLING	2760 60TH AVE SE	9925153	3/4"	CANNOT READ	N	Y	N	N			
THE LANDING AT MERCER ISLAND LLC	2765 60TH AVE SE	59206230	1"	SENSUS	N	Y	N	N			
MCDONALD	2801 60TH AVE SE	54337629	1.5"	METRON	Y	Y	N	N			
O'BRIEN	2815 60TH AVE SE	35084024	1"	ROCKWELL	N	Y	N	N			
ESKRIDGE	2818 60TH AVE SE	51893849	1"	SENSUS	N	Y	N	N	10' N		
WILLIAMS	2819 60TH AVE SE	54765330	1"	ROCKWELL	N	Y	N	N			
JOHNSON	2822 60TH AVE SE	50181892	1"	SENSUS	N	Y	N	Y	2'W		
BELL	2824 60TH AVE SE	50138176	1"	MASTER METER	N	Y	N	N		RR/ MXU 93032462	
O'BRIEN	2825 60TH AVE SE	11004917	1.5"	METRON	Y	Y	Y	N		RR/NO MXU	FIRE METER
O'BRIEN	2825 60TH AVE SE	F00703271	3/4"		N	Y	N	N			
SKONE	2834 60TH AVE SE	58487700	1"	SENSUS	N	Y	N	Y	6' W		
CITY OF MERCER ISLAND	2835 60TH AVE SE	42509960			N	Y	N	N			IRRIGATION
CHATALAS	2841 60TH AVE SE	36888648	5/8"		N	Y	N	N			
ROSEN	2849 60TH AVE SE	36888612	5/8"	ROCKWELL	N	Y	N	N			
BOND	3014 60TH AVE SE	36888439	5/8"	ROCKWELL	N	Y	N	N			
ALMA HOLDINGS LLC	3019 60TH AVE SE	11916623	1.5"	METRON	N	Y	Y	N		RR/MXU 15432127	
MAHONEY	3024 60TH AVE SE	36888525	5/8"	ROCKWELL	N	Y	N	N			
GALLOWAY	3032 60TH AVE SE	54060968	1"	SENSUS	N	Y	Y	Y	16'W,		
RUSSELL	3040 60TH AVE SE	36888581	5/8"	ROCKWELL	N	Y	Y	Y	16'W		
ZECH	3041 60TH AVE SE	9989345	5/8"	MASTER METER	N	Y	Y	Y	10' E		
SCHULER	3054 60TH AVE SE	56225838	1"	SENSUS	N	Y	Y	Y	3' W METER BEHIND ROCK OR STONE WALL REMOVE AND REPLACE		
KEELER	3058 60TH AVE SE	11002907	1.5"	METRON	Y	Y	Y	N			
KEELER	3061 60TH AVE SE	42967802	5/8"	ROCKWELL	N	Y	Y	N			
ALLISON KEELER	3062 60TH AVE SE	31462575	5/8"	ROCKWELL	N	Y	Y	Y	7' W	RR/MXU 15160234	
ROSEN	5980 SE 30TH ST	36888739	5/8"	ROCKWELL	N	Y	N	N			
CITY OF MERCER ISLAND	5990 SE 30TH ST	36618774	3/4"		N	Y	N	N			
ROSEN	5995 SE 30TH ST	35229986	1"	ROCKWELL	N	Y	N	N			
CITY OF MERCER ISLAND	6000 SE 28TH ST	49286182	3/4"		N	Y	N	N			
ZONE A (62nd Ave SE)											
ALFIERI	2410 62ND AVE SE	35466425	5/8"	ROCKWELL	N	Y	N	Y	4'E		
BON	2416 62ND AVE SE	34844373	5/8"	SENSUS	N	Y	N	Y	5'W		
YEN-FAN LEE	2425 62ND AVE SE	33712610	5/8"	ROCKWELL	N	Y	N	Y	6'E		
FRANK KUI JIN	2428 62ND AVE SE	57825342	1"	SENSUS	N	Y	N	N		15160309	
NICHOLAS RADOVICH	2436 62ND AVE SE	11012049	1.5"	METRON	Y	Y	Y	N		15319742	
CHESSLER	2438 62ND AVE SE	33712676	5/8"	ROCKWELL	N	Y	Y	Y	3'NW		
REDIFER	2440 62ND AVE SE	38303495	1"	SENSUS	N	Y	Y	N			
ROBERTS	2441 62ND AVE SE	31256395	5/8"	ROCKWELL	N	Y	N	Y	2'E		
HAWKINS	2445 62ND AVE SE	33712608	5/8"	ROCKWELL	N	Y	N	Y	2'E		
WEYHING	2448 62ND AVE SE	33712734	5/8"	ROCKWELL	N	Y	N	Y	7'W		
SHIBRU	2451 62ND AVE SE	31256373	5/8"	ROCKWELL	N	Y	Y	Y	5'W		
MEYER	2454 62ND AVE SE	50054331	5/8"	MASTER METER	N	Y	Y	N		88588316	
ZHAO	2455 62ND AVE SE	33712736	5/8"	ROCKWELL	N	Y	Y	N			
STRECK	2459 62ND AVE SE	34844377	5/8"	ROCKWELL	N	Y	Y	N			

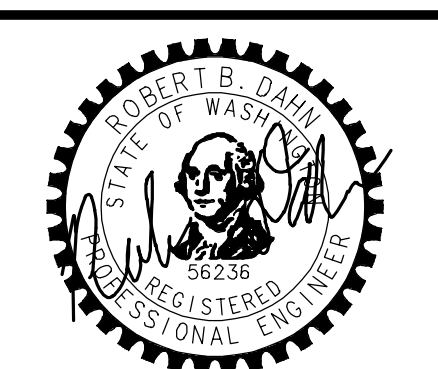


25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED
PROJECT MANAGER: ROB DAHN, PE
PROJECT ENGINEER: GRACE GARWIN, EIT
DESIGNER: CAROL DOGGETT
ISSUE DATE: 6/9/2023

NO	DATE	BY	REVISIONS

WATER SERVICE TABLE - ZONE A
2023 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER: **22-229**

SHEET NAME: **GN-02**

SHT **4** OF **68**

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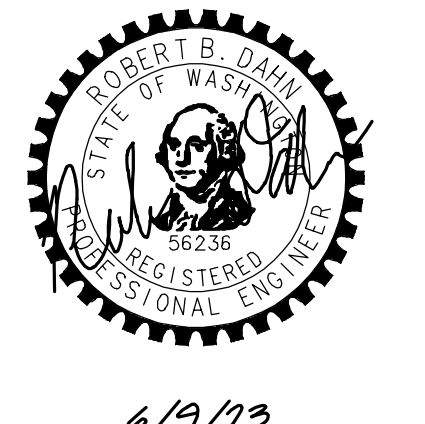


SCALE:
 AS NOTED
 PROJECT MANAGER:
 ROB DAHN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 6/9/2023

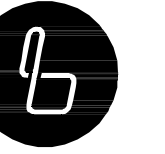
LAST NAME	ADDRESS	UTILITY BILLING METER # (REGISTER #)	EXISTING METER SIZE	METER MAKE	REPLACING METER (Y/N)?	REPLACE METER BOX (Y/N)?	TRAFFIC BEARING	MOVING METER (Y/N)?	METER RELOCATION INFO/COMMENTS	Radio Read / MXU	OTHER INFO (PRV, FIRE, OR IRRIGATION)?
ZONE B (N Mercer Way)											
MERCER ISLAND POST 5760	1836 72ND AVE SE	9973110	3/4"	MASTER METER	N	Y	Y	N			
SINGH	2004 72ND AVE SE	62141802	5/8"	SENSUS	N	Y	Y	N			
BURKE	7210 N MERCER WAY	11004246	1.5	METRON	Y	Y	Y	N		13330710	
GILLOTTI	7214 N MERCER WAY	11013999	1.5	METRON	Y	Y	Y	N		15062083	
PETRIE TRUST	7216 N MERCER WAY	29725675	1"	ROCKWELL	N	Y	N	Y	5'W		
HO FUNG CHAN	7220 N MERCER WAY	119121087	1.5"	METRON	Y	Y	Y	Y	5'S	15011239	
CORBETT	7226 N MERCER WAY	64977611	3/4"	SENSUS	N	Y	Y	N			
THOMPSON	7230 N MERCER WAY	32363429	5/8"	ROCKWELL	N	Y	Y	N			
JONES	7232 N MERCER WAY	61932445	1"	SENSUS	N	Y	Y	N		130929864	
SUN	7240 N MERCER WAY	542334025	1"	INVENSYS	N	Y	Y	Y	5'SW		
MOBLEY	7244 N MERCER WAY	29725676	1"	ROCKWELL	N	Y	Y	N			
MISSSELWITZ	7250 N MERCER WAY	33712622	5/8"	ROCKWELL	N	Y	Y	Y	5'SW		
GIB DEVELOPMENT	7254 N MERCER WAY	91950951	1.5"	SENSUS	N	Y	Y	N		97876858	
MAXWELL	7255 N MERCER WAY	38303556	1"	ROCKWELL	N	Y	Y	N		14959334	
GIB DEVELOPMENT	7260 N MERCER WAY	92070497	1.5"	SENSUS	N	Y	Y	N		97880800	
THOMPSON	7265 N MERCER WAY	57482515	1"	SENSUS	N	Y	Y	N			IRRIGATION BEHIND METER
MOORTHY	7268 N MERCER WAY	9973023	3/4"	MASTER METER	N	Y	Y	Y	10'SW		
ALPINA HAUS LLC	7270 N MERCER WAY	54060967	1"	SENSUS	N	Y	Y	Y	10'SW		
WU	7275 N MERCER WAY	52482331	1"	SENSUS	N	Y	Y	N			
ROSENZWEIG	7276 N MERCER WAY	30620887	5/8"	ROCKWELL	N	Y	Y	N			
GEISENHOF, MATT	7278 N MERCER WAY	30621029	5/8"	ROCKWELL	N	Y	N	Y	RELOCATE TO N MERCER WAY		
XUEJUN LI	7280 N MERCER WAY	46346268	3/4"	SENSUS	N	Y	N	Y	RELOCATE TO N MERCER WAY		
BASKO	7406 N MERCER WAY	11917501	1.5"	METRON	Y	Y	Y	Y	RELOCATE TO N MERCER WAY	15391671	
MACAULAY	7410 N MERCER WAY	11004600	1.5"	METRON	Y	Y	Y	Y	3'S	14499317	
EDMONDS	7414 N MERCER WAY	30621025	5/8"	ROCKWELL	N	Y	Y	Y	10'S, HAND DIG		
BRAHM	7420 N MERCER WAY	30621387	5/8"	ROCKWELL	N	Y	Y	Y	3'S		
ZONE B (74th Ave SE)											
KALIL	2233 74TH AVE SE	9972940	3/4"	MASTER METER	N	Y	N	N			
SUIE LIU	2241 74TH AVE SE	62707626	1"	SENSUS	N	Y	N	N			
SENEKER	2243 74TH AVE SE	11916597	1.5"	METRON	Y	Y	Y	N		88426988	
SHARVIL TALATI	2245 74TH AVE SE	30621221	5/8"	ROCKWELL	N	Y	N	N			
KALTENBACH	2250 74TH AVE SE	30091108	5/8"	ROCKWELL	N	Y	N	Y	15'W, BEHIND WALL		
LOMAX	2255 74TH AVE SE	30621371	5/8"	ROCKWELL	N	Y	N	N			
HESS	2257 74TH AVE SE	30621038	5/8"	ROCKWELL	N	Y	N	N			
LOIC MAGNIN	2259 74TH AVE SE	11413155	5/8"	MASTER METER	N	Y	N	N			
TESSIER	2265 74TH AVE SE	29213755	5/8"	ROCKWELL	N	Y	N	Y	10'E		
KANACH	2400 74TH AVE SE	54174939	1"	SENSUS	N	Y	Y	Y	8'W		
7249 DEVELOPMENT LLC	2405 74TH AVE SE	62334463	5/8"		N	Y	N	Y		4595061	MOVED TO 74TH AVE SE
HANSON	2416 74TH AVE SE	30621251	5/8"	ROCKWELL	N	Y	N	Y	13'W		
TANGEN	2419 74TH AVE SE	30621369	5/8"	ROCKWELL	N	Y	Y	N			
HANSON	2424 74TH AVE SE	63011541	5/8"	SENSUS	N	Y	N	Y	13'W		
SWENSON PONTES	2429 74TH AVE SE		1.5"		N	Y	Y	N			
DONIGIAN	2435 74TH AVE SE	56489328	1"		N	Y	Y	Y	5'E		
PORAD	2445 74TH AVE SE	30621037	5/8"	ROCKWELL	N	Y	Y	N			
ZHANG	2450 74TH AVE SE	30621142	5/8"	ROCKWELL	N	Y	N	Y	11'W		
GU	2455 74TH AVE SE	30621334	5/8"	ROCKWELL	N	Y	Y	Y	10'E		
MAGNUSSEN	2460 74TH AVE SE	42967374	5/8"	ROCKWELL	N	Y	Y	Y	21'W		
CHIU	2463 74TH AVE SE	30621363	1"	ROCKWELL	N	Y	Y	Y	8'E AND 5'N		
PAI	2688 74TH AVE SE	42087004	3/4"	ROCKWELL	N	Y	N	Y	2'W		
KALTENBACH	7416 SE 24TH ST	50015348	5/8"	2015	N	Y	N	Y			

NO	DATE	BY	REVISIONS

WATER SERVICE TABLE - ZONE B
2023 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



6/9/23
 JOB NUMBER:
22-229
 SHEET NAME:
GN-03
 SHT **5** OF **68**



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

LAST NAME	ADDRESS	UTILITY BILLING METER # (REGISTER #)	EXISTING METER SIZE	METER MAKE	REPLACING METER (Y/N)?	REPLACE METER BOX (Y/N)?	TRAFFIC BEARING	MOVING METER (Y/N)?	METER RELOCATION INFO/COMMENTS	Radio Read / MXU	OTHER INFO (PRV, FIRE, OR IRRIGATION)?
ZONE C (76th Ave SE/SE 41st St)											
DEAL	4019 78TH AVE SE	42967753	5/8"	ROCKWELL	N	Y	Y	Y	5.5'S, IN FRONT OF HEDGE		
KARLSBERG	4020 76TH AVE SE	42967574	5/8"	ROCKWELL	N	Y	Y	Y	5'S		
CHRISTENSON	4044 W MERCER WAY	34844488	5/8"	ROCKWELL	N	Y	N	Y	5'E		
KIM	4100 76TH AVE SE	46664939	3/4"	SENSUS	N	Y	Y	N			
MOORE	7604 SE 41ST ST	31256426	5/8"	ROCKWELL	N	Y	Y	Y	2'E		
GUINEE	7620 SE 41ST ST	55466228	1"	ROCKWELL	N	Y	Y	Y	2'S		
MARTA	7628 SE 41ST ST	31256341	5/8"	ROCKWELL	N	Y	Y	Y	5'S		
GROSS	7631 SE 41ST ST	34844458	5/8"	ROCKWELL	N	Y	N	N			
FRIEDMAN	7633 SE 41ST ST	30091103	5/8"	ROCKWELL	N	Y	Y	Y	5' N, 2 METER BOXES IN PAVERS		BACKSIDE PRV
TAYLOR KAO	7641 SE 41ST ST	55219613	1"	SENSUS	N	Y	N	N			
KIM DEMUTH	7644 SE 41ST ST	31256440	5/8"	ROCKWELL	N	Y	Y	N			
KENNEDY	7650 SE 41ST ST	31462610	5/8"	ROCKWELL	N	Y	Y	Y	CONCRETE PANEL, 2'E		
ZONE C (SE 37th Pl)											
KAKU	3704 77TH AVE SE	36888723	5/8"	ROCKWELL	N	Y	N	Y	5'W		
KAKUBAL	3712 77TH AVE SE	36883216	3/4"	ROCKWELL	N	Y	N	Y	5'W		
FUKUI	7602 SE 37TH PL	66886806	3/4"	SENSUS	N	Y	N	Y	10'SE		
MEZISTRANO	7603 SE 37TH PL	11004593	1.5"	METRON	Y	Y	N	Y	5'W	14231080	
ISHII	7611 SE 37TH PL	36888542	5/8"	ROCKWELL	N	Y	N	Y	6'W		
TAYLOR	7616 SE 37TH PL	36888539	5/8"	ROCKWELL	N	Y	N	Y	7'SE		
HICKS	7619 SE 37TH PL	36888687	5/8"	ROCKWELL	N	Y	N	Y	6'W		
FERNANDO SAMPAIO LEE	7624 SE 37TH PL	36888538	5/8"	ROCKWELL	N	Y	N	Y	7'SE		
SACHAN	7627 SE 37TH PL	50191731	1"	MASTER	N	Y	N	Y	3'SW	9443990	

REVISIONS

BY

DATE

NO

**WATER SERVICE TABLE -
ZONE C
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**
 CITY OF MERCER ISLAND WASHINGTON



6/9/23

JOB NUMBER:

22-229

SHEET NAME:

GN-04

SHT **6** OF **68**

BASIS OF BEARINGS

NORTH 10°35'28" WEST BETWEEN CITY OF MERCER ISLAND MONUMENTS 47477 & 47153.

HORIZONTAL DATUM

NAD 83/91 GPS HxGN SMARTNET

VERTICAL DATUM

NAVD 88 PER GPS HxGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND CONTROL POINT 47477

BENCHMARKS

ORIGINATING BENCHMARK: CITY OF MERCER ISLAND MONUMENT 47477
 FOUND 1-1/2" IRON PIPE IN CASE, 0.5' BELOW RIM AT THE INTERSECTION OF SE 32ND ST & 60TH AVE SE

ELEVATION: 44.38'

TEMPORARY BENCHMARKS:

TBM 'C'
 SET MAG NAIL WITH 'AXIS' CONTROL WASHER IN ASPHALT AT THE WEST EDGE OF THE INTERSECTION OF SE 27TH ST & 60TH AVE SE, ±9' NORTH OF THE NORTHEAST CORNER CONCRETE DRIVEWAY FOR HOUSE NO. 2701.

ELEVATION: 58.15'

TBM 'D'
 AT THE FOUND DIVOT IN CONCRETE MONUMENT IN CASE, 1.0' BELOW RIM, AT THE INTERSECTION OF SE 28TH ST & 60TH AVE SE.

ELEVATION: 49.60'

TBM 'E'
 SET MAG NAIL WITH 'AXIS' CONTROL WASHER AT THE WEST EDGE 60TH AVE SE, ±6' NORTH OF THE NORTHEAST CORNER ASPHALT DRIVEWAY FOR HOUSE NO. 3019.

ELEVATION: 48.26'

TBM 'F'
 AT FOUND 1-1/2" IRON PIPE IN CASE, 0.5' BELOW RIM, LOCATED AT THE INTERSECTION OF SE 32ND ST & 60TH AVE SE.

ELEVATION: 44.38'

REFERENCES

- LAKE VIEW PLACE EAST SEATTLE, RECORDED UNDER VOLUME 8 OF PLATS, PAGE 49, RECORDS OF KING COUNTY, WASHINGTON.
- CENTRAL ADDITION TO EAST SEATTLE, RECORDED UNDER VOLUME 7 OF PLATS, PAGE 13, RECORDS OF KING COUNTY, WASHINGTON.
- RECORD OF SURVEY BY TERRANE, RECORDED UNDER RECORDING NO. 201602090019, RECORDS OF KING COUNTY, WASHINGTON.
- WASHINGTON STATE DEPARTMENT OF TRANSPORTATION PLANS MP 3.25 TO MP 4.27, MERCER ISLAND: WEST SHORE TO EAST CHANNEL BRIDGE, SEC. 1, W. SHORE TO 76TH AVE VIC.
- PLAT OF EAST SEATTLE, RECORDED IN VOLUME 5, PAGE 22 OF PLATS, RECORDS OF KING COUNTY, WASHINGTON.
- RECORD OF SURVEY BY M.W. MARSHALL, RECORDED UNDER RECORDING NO. 8307139004, RECORDS OF KING COUNTY, WASHINGTON.
- RECORD OF SURVEY BY CHENOWETH & ASSOCIATES, UNDER RECORDING NO. 8408099001, RECORDS OF KING COUNTY, WASHINGTON.
- RECORD OF SURVEY BY M.W. MARSHALL, RECORDED UNDER RECORDING NO. 9707319016, RECORDS OF KING COUNTY, WASHINGTON.
- RECORD OF SURVEY BY BUSH, ROED & HITCHINGS, INC., RECORDED UNDER RECORDING NO. 20010904900001, RECORDS OF KING COUNTY, WASHINGTON.
- RECORD OF SURVEY BY NORTH POINTE SURVEYING, INC. RECORDED UNDER RECORDING NO. 20020607900004, RECORDS OF KING COUNTY, WASHINGTON.
- LOT CONSOLIDATION SURVEY, BY NORTH POINTE SURVEYING, INC., RECORDED UNDER RECORDING NO. 20030324900004, RECORDS OF KING COUNTY, WASHINGTON.
- RECORD OF SURVEY BY M.W. MARSHALL, RECORDED UNDER RECORDING NO. 201002059000014, RECORDS OF KING COUNTY, WASHINGTON.
- RECORD OF SURVEY BY HORTON DENNIS & ASSOC., RECORDED UNDER RECORDING NO. 8010079002, RECORDS OF KING COUNTY, WASHINGTON.
- RECORD OF SURVEY BY BENNETT PS & E, INC., RECORDED UNDER RECORDING NO. 9204159002, RECORDS OF KING COUNTY, WASHINGTON.
- RECORD OF SURVEY BY C & T SURVEYING, RECORDED UNDER RECORDING NO. 9210089002, RECORDS OF KING COUNTY, WASHINGTON.
- CITY OF MERCER ISLAND SHORT PLAT NO. M-84-05-16, RECORDED UNDER RECORDING NO. 8408169001, RECORDS OF KING COUNTY, WASHINGTON.

GIS PARCEL NOTE

PARCEL LINES AS SHOWN ARE FROM KING COUNTY GIS INFORMATION. NOTE THAT IT IS ONLY A SCHEMATIC REPRESENTATION FOR CONVENIENCE IN INTERPRETING THE TOPOGRAPHY. IT IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE RELIED ON AS SUCH.

NOTES

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON SEPTEMBER 27, 2022 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

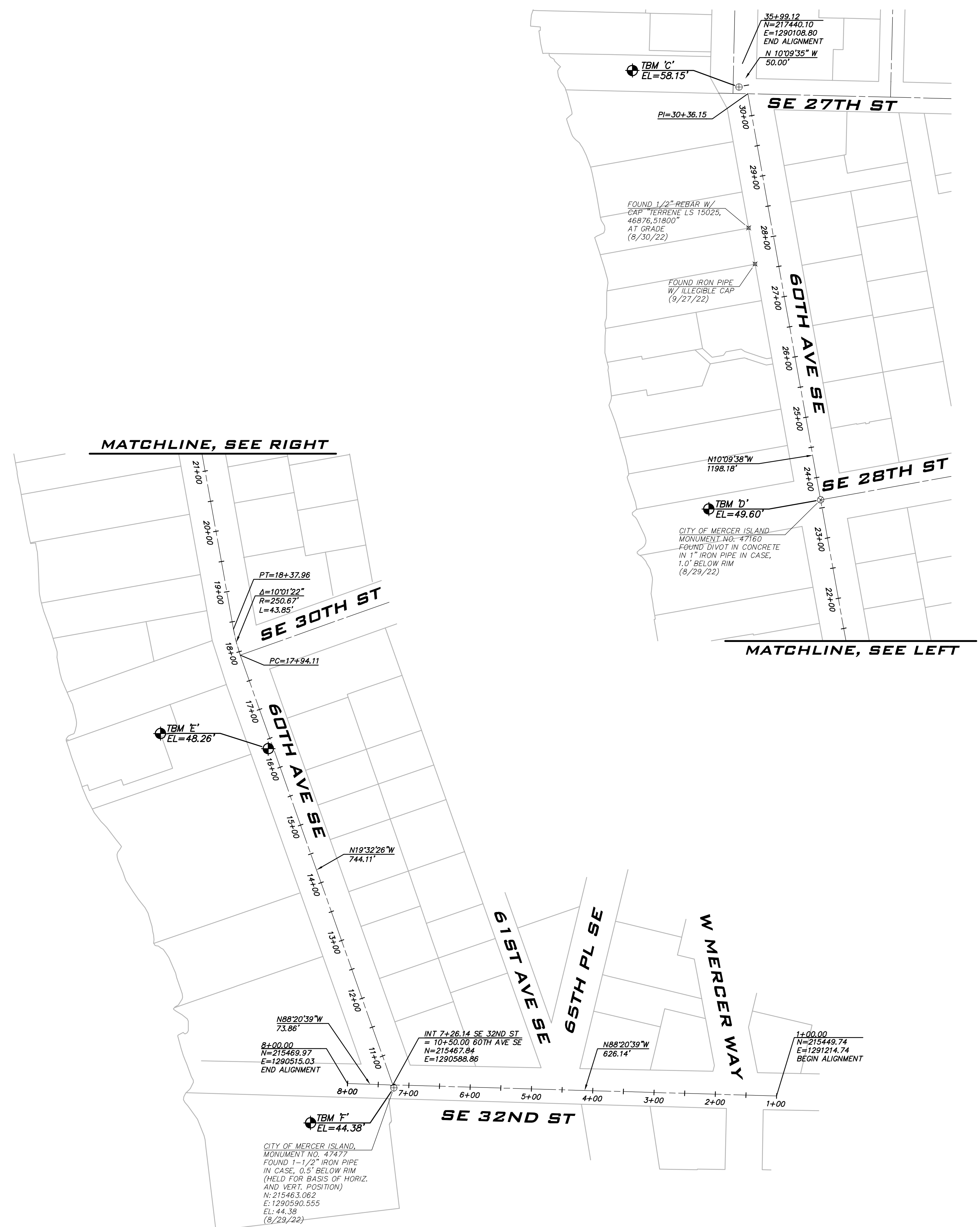
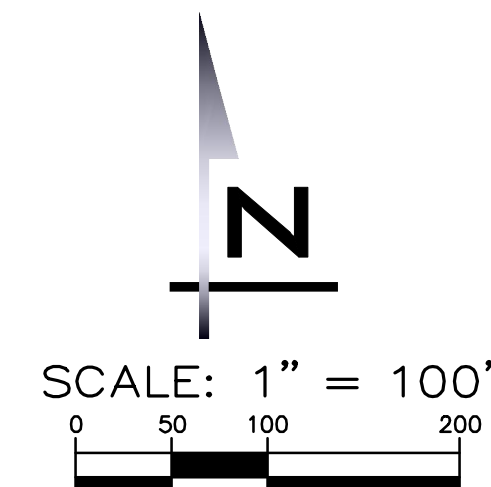
THIS SURVEY DISCLOSES FACTORS OF RECORD AND ON THE GROUND AFFECTING THE SUBJECT PROPERTY BOUNDARY, BUT IT DOES NOT PURPORT TO LEGALLY RESOLVE RELATED PROPERTY LINE DISPUTES. WHERE AMBIGUITIES ARE NOTED, AXIS RECOMMENDS THAT THE OWNER CONSULT WITH LEGAL COUNSEL TO DETERMINE HOW BEST TO INTERPRET THEIR PROPERTY RIGHTS AND ADDRESS ANY POTENTIAL PROPERTY LINE DISPUTES.

UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON ASBUILT FIELD LOCATION OF EXISTING STRUCTURES, FIELD LOCATION OF UTILITIES BASED ON LOCATOR PAINT MARKINGS AND LOCATIONS BASED ON UTILITY MAPS FROM CITY AND UTILITY DRAWINGS INDICATING REPORTED UTILITY INSTALLATIONS. OTHER UTILITIES MAY EXIST. NO SUB-SURFACE EXPLORATION WAS MADE TO VERIFY UTILITY ROUTINGS AND THE ROUTING OF ALL BURIED UTILITIES SHOULD BE CONFIRMED WITH THE UTILITY PURVEYOR AND EXPOSED IN AREAS CRITICAL TO DESIGN FOR VERIFICATION.

2' CONTOURS INTERVAL DERIVED FROM DIRECT FIELD OBSERVATION. THIS SURVEY MEETS UNITED STATES NATIONAL MAP ACCURACY STANDARDS FOR VERTICAL ACCURACY OF ONE HALF THE CONTOUR INTERVAL.

EQUIPMENT NOTES

PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA GS14 GPS/GNSS EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC TS15 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.



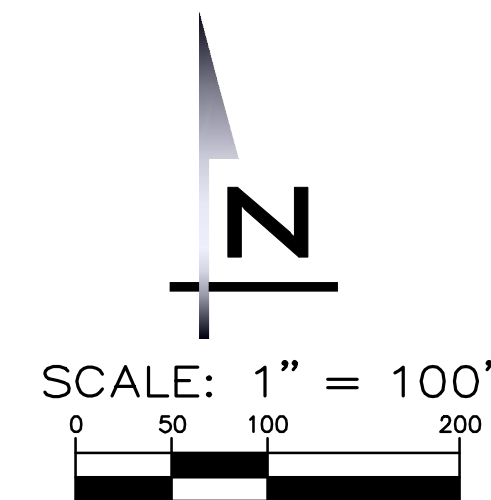
BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P: 425.216.4051 F: 425.216.4052
 WWW.THEBLUELINEGROUP.COM

SCALE:
 AS NOTED
 PROJECT MANAGER:
 ROB DAHN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 6/9/2023

NO	DATE	BY	REVISIONS

ALIGNMENT PLAN & SURVEY
 DATA - ZONE A
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

6/9/23
 JOB NUMBER:
22-229
 SHEET NAME:
AL-01
 SHT **7** OF **68**



SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023

BASIS OF BEARINGS
NORTH 10°35'28" WEST BETWEEN CITY OF MERCER ISLAND MONUMENTS 47477 & 47153.

HORIZONTAL DATUM
NAD 83/91 GPS HxGN SMARTNET

VERTICAL DATUM
NAVD 88 PER GPS HxGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND CONTROL POINT 47477

BENCHMARKS
ORIGINATING BENCHMARK: CITY OF MERCER ISLAND MONUMENT 47477
FOUND 1-1/2" IRON PIPE IN CASE, 0.5' BELOW RIM AT THE INTERSECTION OF SE 32ND ST & 60TH AVE SE
ELEVATION: 44.38'

TEMPORARY BENCHMARKS:

TBM 'A'
AT MAG NAIL WITH 'AXIS' CONTROL WASHER IN ASPHALT AT THE SOUTHWEST QUADRANT OF SE 24TH ST & 62ND AVE SE, ±1.6' SOUTH OF THE SOUTH END CURB AND ±5' NORTHEAST OF A CATCH BASIN.
ELEVATION: 102.07'

TBM 'B'
AT FOUND TACK IN 1" IRON PIPE IN CASE, 0.9' BELOW RIM, AT THE INTERSECTION OF SE 27TH ST & 63RD AVE SE.
ELEVATION: 112.04'

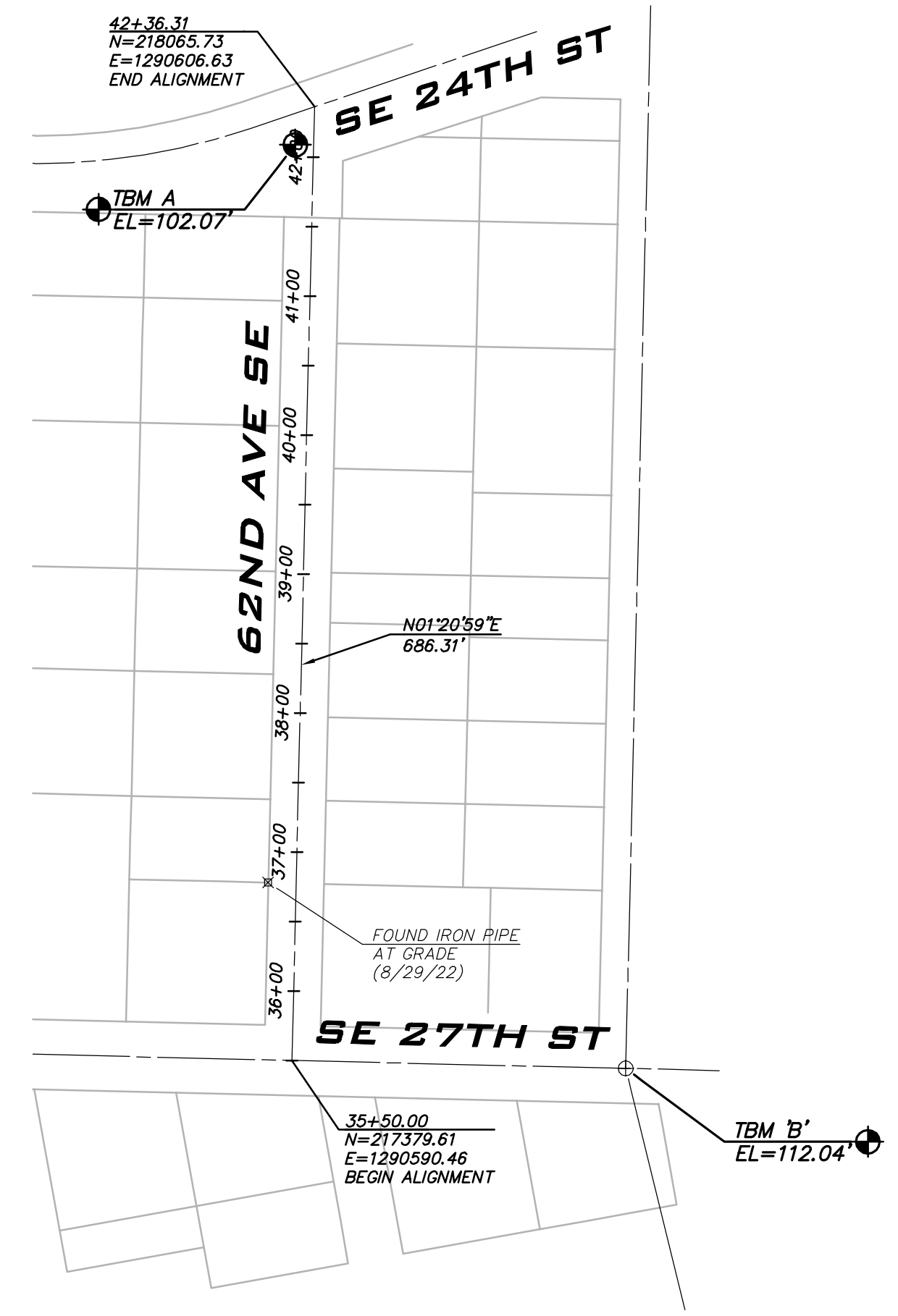
- REFERENCES**
- LAKE VIEW PLACE EAST SEATTLE, RECORDED UNDER VOLUME 8 OF PLATS, PAGE 49, RECORDS OF KING COUNTY, WASHINGTON.
 - CENTRAL ADDITION TO EAST SEATTLE, RECORDED UNDER VOLUME 7 OF PLATS, PAGE 13, RECORDS OF KING COUNTY, WASHINGTON.
 - RECORD OF SURVEY BY TERRANE, RECORDED UNDER RECORDING NO. 20160920900019, RECORDS OF KING COUNTY, WASHINGTON.
 - WASHINGTON STATE DEPARTMENT OF TRANSPORTATION PLANS "MP 3.25 TO MP 4.27, MERCER ISLAND: WEST SHORE TO EAST CHANNEL BRIDGE, SEC. 1, W. SHORE TO 76TH AVE VIC.

GIS PARCEL NOTE
PARCEL LINES AS SHOWN ARE FROM KING COUNTY GIS INFORMATION. NOTE THAT IT IS ONLY A SCHEMATIC REPRESENTATION FOR CONVENIENCE IN INTERPRETING THE TOPOGRAPHY. IT IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE RELIED ON AS SUCH.

NOTES
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON AUGUST 29, 2022 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
THIS SURVEY DISCLOSES FACTORS OF RECORD AND ON THE GROUND AFFECTING THE SUBJECT PROPERTY BOUNDARY, BUT IT DOES NOT PURPORT TO LEGALLY RESOLVE RELATED PROPERTY LINE DISPUTES. WHERE AMBIGUITIES ARE NOTED, AXIS RECOMMENDS THAT THE OWNER CONSULT WITH LEGAL COUNSEL TO DETERMINE HOW BEST TO INTERPRET THEIR PROPERTY RIGHTS AND ADDRESS ANY POTENTIAL PROPERTY LINE DISPUTES.

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2' CONTOURS INTERVAL DERIVED FROM DIRECT FIELD OBSERVATION. THIS SURVEY MEETS UNITED STATES NATIONAL MAP ACCURACY STANDARDS FOR VERTICAL ACCURACY OF ONE HALF THE CONTOUR INTERVAL.

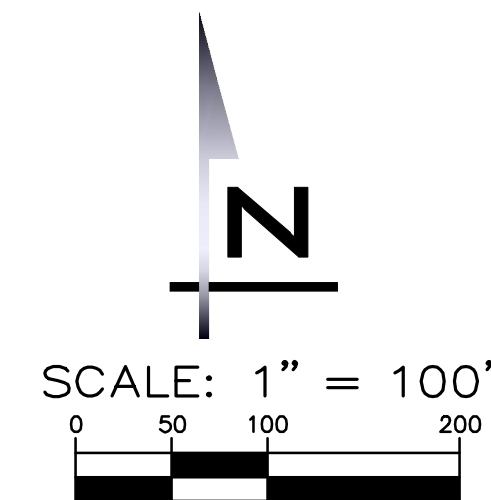
EQUIPMENT NOTES
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NO	DATE	BY	REVISIONS

ALIGNMENT PLAN & SURVEY DATA - ZONE A
2023 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

6/9/23
JOB NUMBER:
22-229
SHEET NAME:
AL-02
SHT **8** OF **68**



25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

BASIS OF BEARINGS
NORTH 63°44'49" WEST BETWEEN CITY OF MERCER ISLAND MONUMENTS 10190 & 10178.

HORIZONTAL DATUM
NAD '83/'91 GPS HxGN SMARTNET

VERTICAL DATUM
NAVD '88 PER GPS HxGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND CONTROL POINT 10178

BENCHMARKS
ORIGINATING BENCHMARK: CITY OF MERCER ISLAND MONUMENT 10178
FOUND TACK IN 2-1/2" CONCRETE FILLED IRON PIPE IN CASE, 0.6' BELOW RIM, AT THE CENTERLINE OF NORTH MERCER WAY, ±64' NORTHWESTERLY OF THE NORTHWEST CORNER ASPHALT DRIVEWAY FOR HOUSE NO. 7442.

ELEVATION: 67.63

TEMPORARY BENCHMARKS:

TBM 'A'
AT MAG NAIL WITH LS WASHER "APEX LS 18902" IN ASPHALT, 5' SOUTH OF THE NORTH EDGE PAVING AT THE NORTH QUADRANT OF N MERCER WAY & 74TH AVE SE.

ELEVATION: 84.82'

TBM 'B'
FOUND TACK IN 2-1/2" CONCRETE FILLED IRON PIPE IN CASE, 0.6' BELOW RIM, AT THE CENTERLINE OF NORTH MERCER WAY, ±64' NORTHWESTERLY OF THE NORTHWEST CORNER ASPHALT DRIVEWAY FOR HOUSE NO. 7442.

ELEVATION: 67.63

TBM 'C'
AT MAG NAIL IN ASPHALT ON THE WEST EDGE OF 72ND AVE SE, ±5' SOUTHEAST OF A UTILITY POLE WITH TRANSFORMER AND ±2.6' EAST OF A WATER METER LOCATED ±7' EASTERLY OF THE SOUTH END ROCKERY AT ± SOUTHEAST CORNER OF ADDRESS 7037 N MERCER WAY.

ELEVATION: 93.98'

- REFERENCES**
1. MCGILVRA'S ISLAND ADDITION, RECORDED IN VOLUME 15 OF PLATS, PAGE 5B, RECORDS OF KING COUNTY, WASHINGTON.
 2. RECORD OF SURVEY BY TRUE NORTH, RECORDED UNDER RECORDING NO. 20160802900008, RECORDS OF KING COUNTY, WASHINGTON.
 3. RECORD OF SURVEY BY APEX, RECORDED UNDER RECORDING NO. 20060605900001, RECORDS OF KING COUNTY, WASHINGTON.
 4. RECORD OF SURVEY BY CTS ENGINEERS, RECORDED UNDER RECORDING NO. 20050603300002, RECORDS OF KING COUNTY, WASHINGTON.
 5. RECORD OF SURVEY BY TERRANE, RECORDED UNDER RECORDING NO. 20200916900029, RECORDS OF KING COUNTY, WASHINGTON.

GIS PARCEL NOTE
PARCEL LINES AS SHOWN ARE FROM KING COUNTY GIS INFORMATION. NOTE THAT IT IS ONLY A SCHEMATIC REPRESENTATION FOR CONVENIENCE IN INTERPRETING THE TOPOGRAPHY. IT IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE RELIED ON AS SUCH.

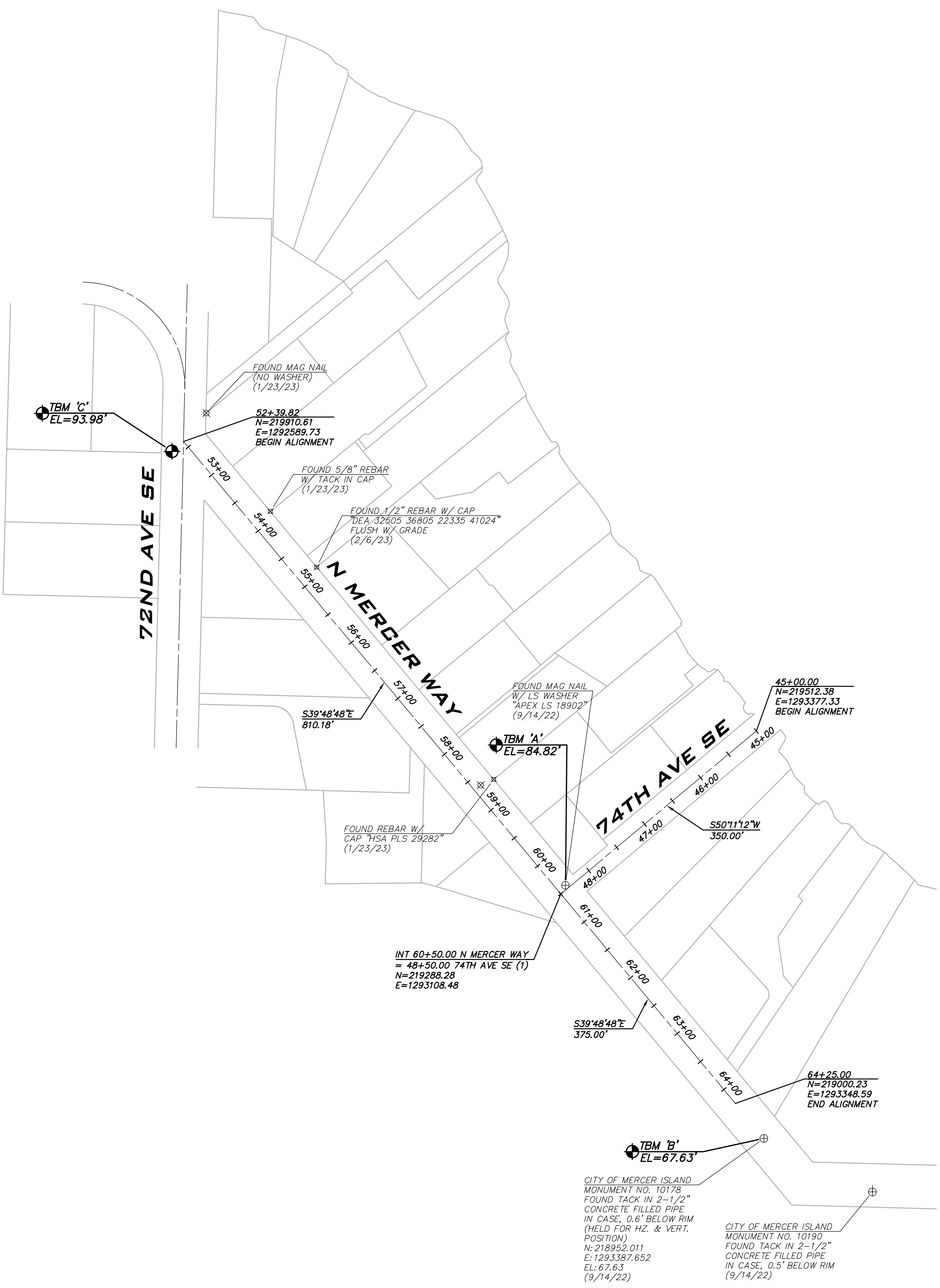
NOTES
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON SEPTEMBER 28, 2022 AND JANUARY 27, 2023, AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

THIS SURVEY DISCLOSES FACTORS OF RECORD AND ON THE GROUND AFFECTING THE SUBJECT PROPERTY BOUNDARY, BUT IT DOES NOT PURPORT TO LEGALLY RESOLVE RELATED PROPERTY LINE DISPUTES. WHERE AMBIGUITIES ARE NOTED, AXIS RECOMMENDS THAT THE OWNER CONSULT WITH LEGAL COUNSEL TO DETERMINE HOW BEST TO INTERPRET THEIR PROPERTY RIGHTS AND ADDRESS ANY POTENTIAL PROPERTY LINE DISPUTES.

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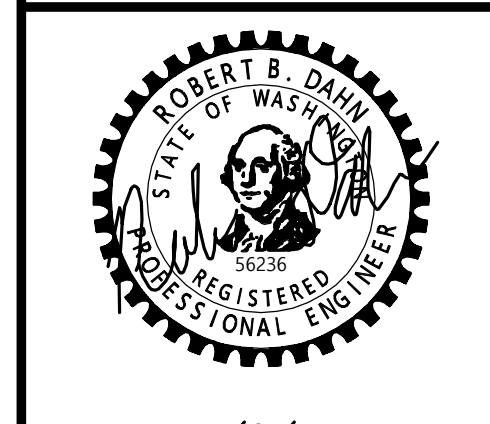
2' CONTOURS INTERVAL DERIVED FROM DIRECT FIELD OBSERVATION. THIS SURVEY MEETS UNITED STATES NATIONAL MAP ACCURACY STANDARDS FOR VERTICAL ACCURACY OF ONE HALF THE CONTOUR INTERVAL.

EQUIPMENT NOTES
PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA GST14 GPS GNSS EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC TS15 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.



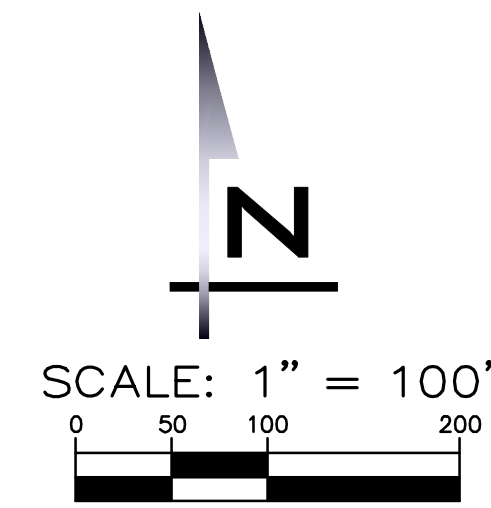
NO	DATE	BY	REVISIONS

ALIGNMENT PLAN & SURVEY DATA - ZONE B
2023 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
AL-03

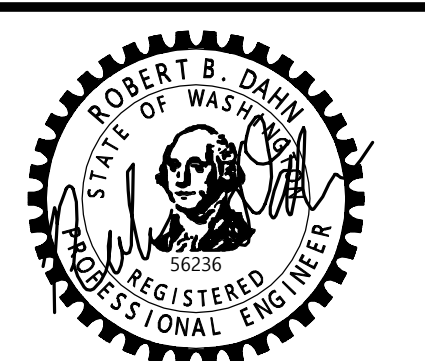
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Jun 09, 2023 - 1:14pm - User: tcabrera
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© 2023 BLUELINE



SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

**ALIGNMENT PLAN & SURVEY
DATA - ZONE B
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
AL-04

BASIS OF BEARINGS
NORTH 01°16'49" EAST BETWEEN CITY OF MERCER ISLAND MONUMENTS 7049 & 8240 ALONG THE CENTERLINE OF 72ND AVE SE.

HORIZONTAL DATUM
NAD '83/'91 GPS HxGN SMARTNET

VERTICAL DATUM
NAVD '88 PER GPS HxGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND CONTROL POINT 7049

BENCHMARKS
ORIGINATING BENCHMARK: CITY OF MERCER ISLAND MONUMENT 7049
FOUND 3/8" BRASS PIN IN CONCRETE MONUMENT IN CASE, 1.4' BELOW RIM, AT THE INTERSECTION OF 72ND AVE SE & SE 24TH ST.

ELEVATION: 215.90'

TEMPORARY BENCHMARKS:

TBM 'A'
FOUND PUNCH IN 1.5" ALUMINUM DISK STAMPED "T 1838" AT THE EAST EDGE PAVING FOR 74TH AVE SE, AT THE SOUTHWEST CORNER ASPHALT DRIVEWAY FOR HOUSE NO. 2400.

ELEVATION: 161.92'

TBM 'B'
AT MAG NAIL WITH 'AXIS' CONTROL WASHER SET IN ASPHALT PAVING ON THE SOUTHERLY SIDE OF SE 27TH ST, ±19' SOUTH OF THE SOUTH END ASPHALT DRIVEWAY FOR HOUSE NO. 7420, BETWEEN 2 CATCH BASINS SET 11' APART.

ELEVATION: 168.39'

- REFERENCES**
- MCGILVRA'S ISLAND ADDITION, RECORDED IN VOLUME 15 OF PLATS, PAGE 58, RECORDS OF KING COUNTY, WASHINGTON.
 - RECORD OF SURVEY BY RJ MUELLER & ASSOC., RECORDED UNDER RECORDING NO. 8711029001, RECORDS OF KING COUNTY, WASHINGTON.
 - CITY OF MERCER ISLAND SHORT PLAT NO. SUB07-006, RECORDED UNDER RECORDING NO. 20100208900014, RECORDS OF KING COUNTY, WASHINGTON.

GIS PARCEL NOTE
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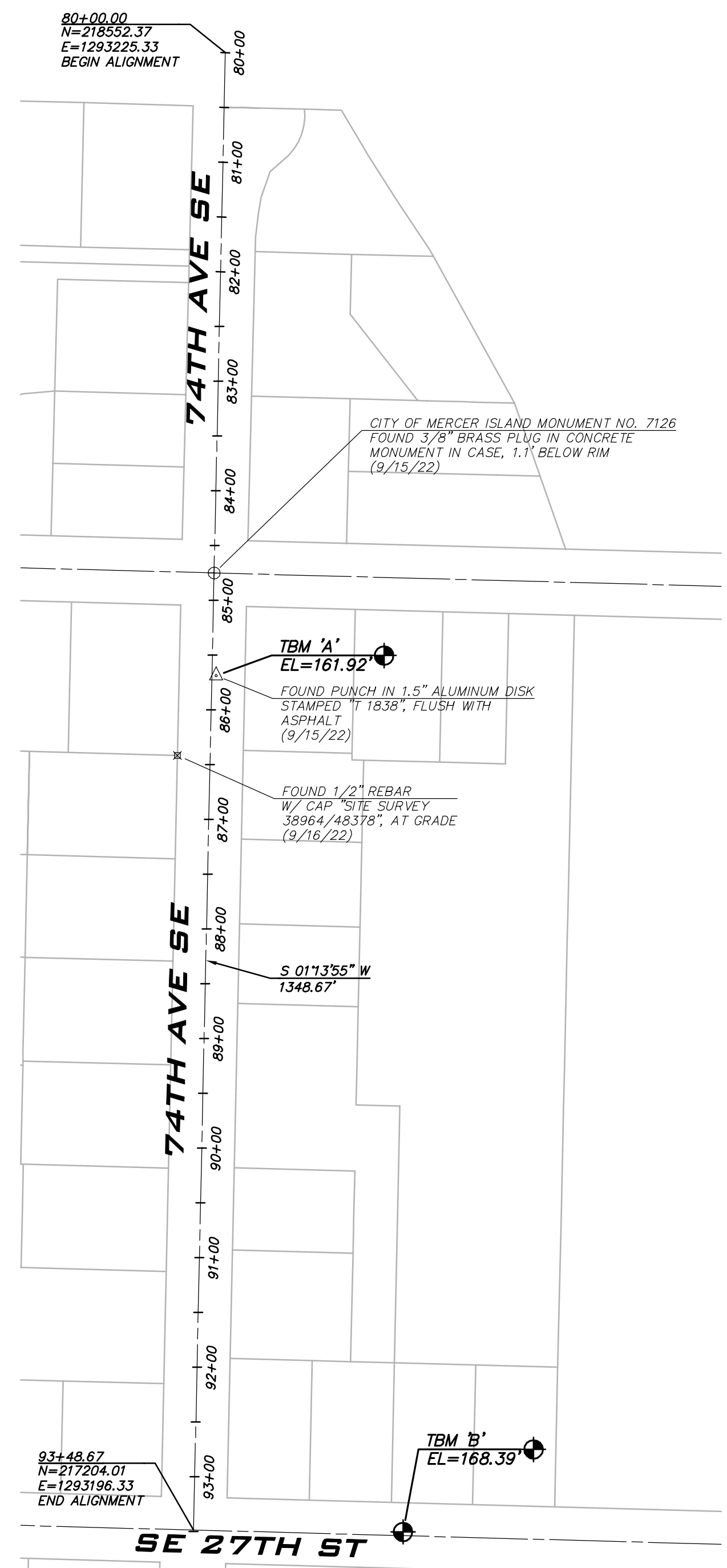
NOTES
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2' CONTOURS INTERVAL DERIVED FROM DIRECT FIELD OBSERVATION. THIS SURVEY MEETS UNITED STATES NATIONAL MAP ACCURACY STANDARDS FOR VERTICAL ACCURACY OF ONE HALF THE CONTOUR INTERVAL.

EQUIPMENT NOTES
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BASIS OF BEARINGS
NORTH 01°16'49" EAST BETWEEN CITY OF MERCER ISLAND MONUMENTS 7049 & 8240 ALONG THE CENTERLINE OF 72ND AVE SE.

HORIZONTAL DATUM
NAD '83/'91 GPS HxGN SMARTNET

VERTICAL DATUM
NAVD '88 PER GPS HxGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND CONTROL POINT 7049

BENCHMARKS
ORIGINATING BENCHMARK: CITY OF MERCER ISLAND MONUMENT 7049
FOUND 3/8" BRASS PIN IN CONCRETE MONUMENT IN CASE, 1.4' BELOW RIM, AT THE INTERSECTION OF 72ND AVE SE & SE 24TH ST.

ELEVATION: 215.90'

TEMPORARY BENCHMARKS:

TBM 'C'
SET MAG NAIL WITH 'AXIS' CONTROL WASHER IN ASPHALT ON THE NORTHERLY SIDE OF SE 27TH ST, 7.5' SOUTH X 1.5' EAST OF A "CROSSWALK AHEAD" SIGN.

ELEVATION: 257.54'

TBM 'D'
SET MAG NAIL WITH 'AXIS' CONTROL WASHER IN ASPHALT ON THE EASTERLY SIDE OF 73RD AVE SE, AT ± THE SOUTHWEST CORNER CONCRETE DRIVEWAY FOR HOUSE NO. 2424.

ELEVATION: 198.89'

- REFERENCES**
- MCGILVRA'S ISLAND ADDITION, RECORDED IN VOLUME 15 OF PLATS, PAGE 58, RECORDS OF KING COUNTY, WASHINGTON.
 - RECORD OF SURVEY BY RJ MUELLER & ASSOC., RECORDED UNDER RECORDING NO. 8711029001, RECORDS OF KING COUNTY, WASHINGTON.
 - CITY OF MERCER ISLAND SHORT PLAT NO. SUB07-006, RECORDED UNDER RECORDING NO. 20100208900014, RECORDS OF KING COUNTY, WASHINGTON.
 - QUIT CLAIM DEED RECORDED UNDER RECORDING NO. 20200728001291, RECORDS OF KING COUNTY, WASHINGTON.
 - RECORD OF SURVEY BY TERRANE, RECORDED UNDER RECORDING NO. 20180322800019, RECORDS OF KING COUNTY, WASHINGTON.

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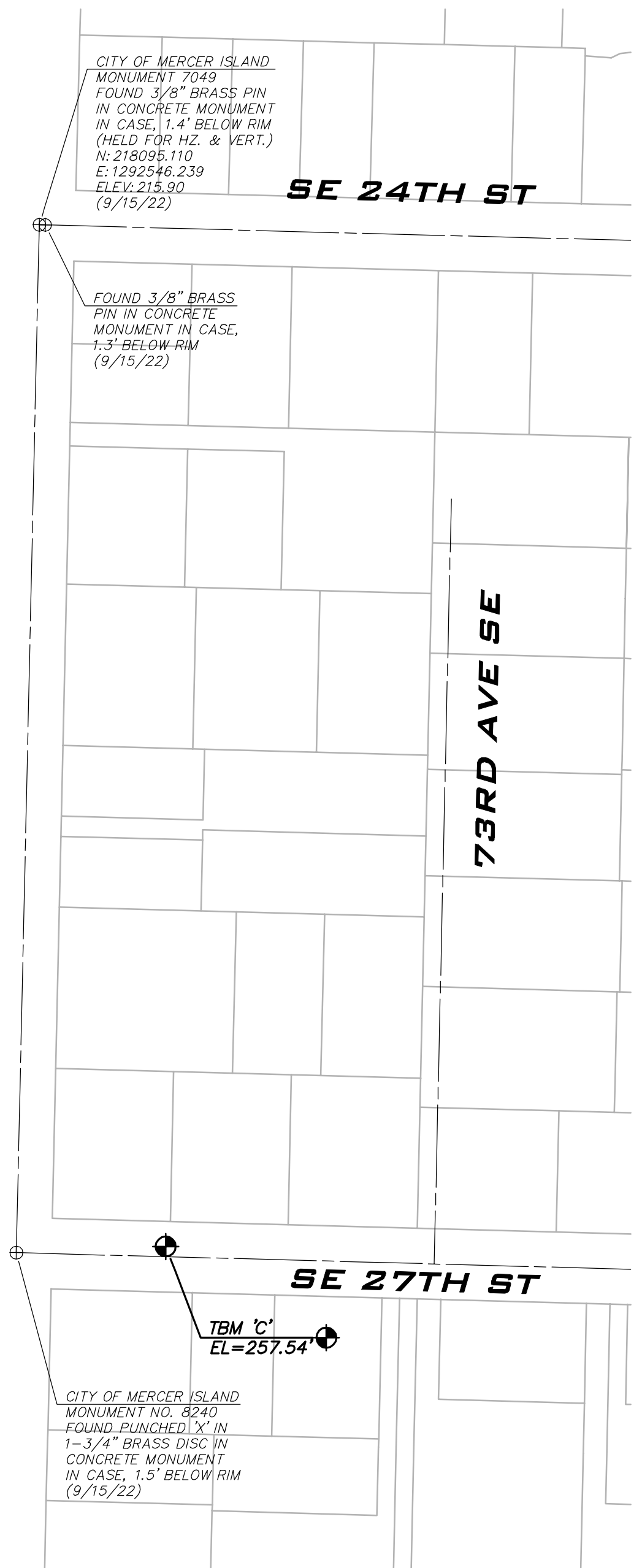
NOTES
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON OCTOBER 13, 2022 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

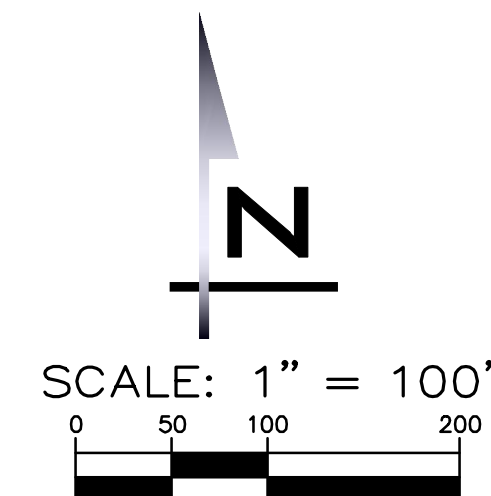
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EQUIPMENT NOTES
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BASIS OF BEARINGS

BASIS OF BEARING NORTH 19°05'47" EAST BETWEEN CITY OF MERCER ISLAND MONUMENTS 47736 & 47741.

HORIZONTAL DATUM

NAD '83/'91 GPS HxGN SMARTNET

VERTICAL DATUM

NAVD '88 PER GPS HxGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND CONTROL POINT 47736

BENCHMARKS

ORIGINATING BENCHMARK: CITY OF MERCER ISLAND MONUMENT 47736 FOUND TACK IN LEAD IN CONCRETE MONUMENT IN CASE, 0.85' BELOW RIM, AT THE INTERSECTION OF SE 37TH ST & 77TH AVE SE.

ELEVATION: 110.79'

TEMPORARY BENCHMARKS:

TBM 'A'

AT FOUND MAG NAIL WITH WASHER LOCATED 3.3' EAST OF THE WEST EDGE PAVING FOR 76TH AVE SE, ±2.8' SOUTHEAST OF A SEWER MANHOLE AND ±44' SOUTHWESTERLY OF THE NORTHWEST CORNER ASPHALT DRIVEWAY FOR ADDRESS 7603 SE 37TH PL.

ELEVATION: 145.87'

TBM 'B'

AT FOUND TACK IN LEAD IN CONCRETE MONUMENT IN CASE, 0.85' BELOW RIM, LOCATED AT THE INTERSECTION OF SE 37TH ST & 77TH AVE SE.

ELEVATION: 110.79'

REFERENCES

MERCERDALE, RECORDED IN VOLUME 59 OF PLATS, PAGES 94 THRU 96, RECORDS OF KING COUNTY, WASHINGTON.

GIS PARCEL NOTE

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NOTES

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON OCTOBER 20, 2022 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

THIS SURVEY DISCLOSES FACTORS OF RECORD AND ON THE GROUND AFFECTING THE SUBJECT PROPERTY BOUNDARY, BUT IT DOES NOT PURPORT TO LEGALLY RESOLVE RELATED PROPERTY LINE DISPUTES. WHERE AMBIGUITIES ARE NOTED, AXIS RECOMMENDS THAT THE OWNER CONSULT WITH LEGAL COUNSEL TO DETERMINE HOW BEST TO INTERPRET THEIR PROPERTY RIGHTS AND ADDRESS ANY POTENTIAL PROPERTY LINE DISPUTES.

UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON ASBUILT FIELD LOCATION OF EXISTING STRUCTURES. FIELD LOCATION OF UTILITIES BASED ON LOCATOR PAINT MARKINGS AND LOCATIONS BASED ON UTILITY MAPS FROM CITY AND UTILITY DRAWINGS INDICATING REPORTED UTILITY INSTALLATIONS. OTHER UTILITIES MAY EXIST. NO SUB-SURFACE EXPLORATION WAS MADE TO VERIFY UTILITY ROUTINGS AND THE ROUTING OF ALL BURIED UTILITIES SHOULD BE CONFIRMED WITH THE UTILITY PURVEYOR AND EXPOSED IN AREAS CRITICAL TO DESIGN FOR VERIFICATION.

2' CONTOURS INTERVAL DERIVED FROM DIRECT FIELD OBSERVATION. THIS SURVEY MEETS UNITED STATES NATIONAL MAP ACCURACY STANDARDS FOR VERTICAL ACCURACY OF ONE HALF THE CONTOUR INTERVAL.

EQUIPMENT NOTES

PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA GS14 GPS/GNSS EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC TS15 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.

BASIS OF BEARINGS

BASIS OF BEARING NORTH 19°05'47" EAST BETWEEN CITY OF MERCER ISLAND MONUMENTS 47736 & 47741.

HORIZONTAL DATUM

NAD '83/'91 GPS HxGN SMARTNET

VERTICAL DATUM

NAVD '88 PER GPS HxGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND CONTROL POINT 47736

BENCHMARKS

ORIGINATING BENCHMARK: CITY OF MERCER ISLAND MONUMENT 47736 FOUND TACK IN LEAD IN CONCRETE MONUMENT IN CASE, 0.85' BELOW RIM, AT THE INTERSECTION OF SE 37TH ST & 77TH AVE SE.

ELEVATION: 110.79'

TEMPORARY BENCHMARKS:

TBM 'A'

AT MAG NAIL WITH WASHER IN ASPHALT LOCATED 1.7' NORTHERLY OF THE SOUTHERLY EDGE PAVING FOR W MERCER WAY, ±31' SOUTHEASTERLY OF THE SOUTHEAST CORNER CONCRETE DRIVEWAY FOR HOUSE NO. 4053.

ELEVATION: 159.33'

TBM 'B'

AT MAG NAIL WITH 'AXIS' CONTROL WASHER IN ASPHALT LOCATED ±4.3' WEST OF THE EAST EDGE PAVING FOR 78TH AVE SE, ±9.5' SOUTHERLY OF THE SOUTHWEST CORNER ASPHALT DRIVEWAY FOR HOUSE NO. 4106.

ELEVATION: 204.51'

REFERENCES

(R1) RECORD OF SURVEY RECORDED UNDER RECORDING NO. 20000803900015, RECORDS OF KING COUNTY, WASHINGTON.

(R2) KING COUNTY ENGINEERS OFFICE SECTION MAP, FOR SECTION 13, DATED APRIL 7, 1937, RECORDED IN THE KING COUNTY ROAD VAULT DATABASE.

(R3) KING COUNTY ENGINEERS OFFICE SECTION MAP, FOR SECTION 12, DATED APRIL 7, 1937, RECORDED IN THE KING COUNTY ROAD VAULT DATABASE.

(R4) GOODFELLOWS HOME TRACTS DIV. NO. ONE, REPLAT OF TRACT 15 OF REPLAT OF ISLAND PARK, RECORDED IN VOLUME 18 OF PLATS, PAGE 17, RECORDS OF KING COUNTY, WASHINGTON.

(R5) RECORD OF SURVEY RECORDED UNDER RECORDING NO. 20100414900004, RECORDS OF KING COUNTY, WASHINGTON.

(R6) RECORD OF SURVEY RECORDED UNDER RECORDING NO. 20130904900005, RECORDS OF KING COUNTY, WASHINGTON.

(R7) RECORD OF SURVEY RECORDED UNDER RECORDING NO. 20150820900024, RECORDS OF KING COUNTY, WASHINGTON.

(R8) RECORD OF SURVEY RECORDED UNDER RECORDING NO. 20151006900025, RECORDS OF KING COUNTY, WASHINGTON.

(R9) RECORD OF SURVEY RECORDED UNDER RECORDING NO. 20200205900017, RECORDS OF KING COUNTY, WASHINGTON.

(R10) RECORD OF SURVEY RECORDED UNDER RECORDING NO. 20210429900004, RECORDS OF KING COUNTY, WASHINGTON.

(R11) RECORD OF SURVEY RECORDED UNDER RECORDING NO. 9004049008, RECORDS OF KING COUNTY, WASHINGTON.

(R12) RECORD OF SURVEY RECORDED UNDER RECORDING NO. 9005179006, RECORDS OF KING COUNTY, WASHINGTON.

(R13) RECORD OF SURVEY RECORDED UNDER RECORDING NO. 20020719900001, RECORDS OF KING COUNTY, WASHINGTON.

GIS PARCEL NOTE

PARCEL LINES AS SHOWN ARE FROM KING COUNTY GIS INFORMATION. NOTE THAT IT IS ONLY A SCHEMATIC REPRESENTATION FOR CONVENIENCE IN INTERPRETING THE TOPOGRAPHY. IT IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE RELIED ON AS SUCH.

NOTES

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON OCTOBER 25, 2022 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

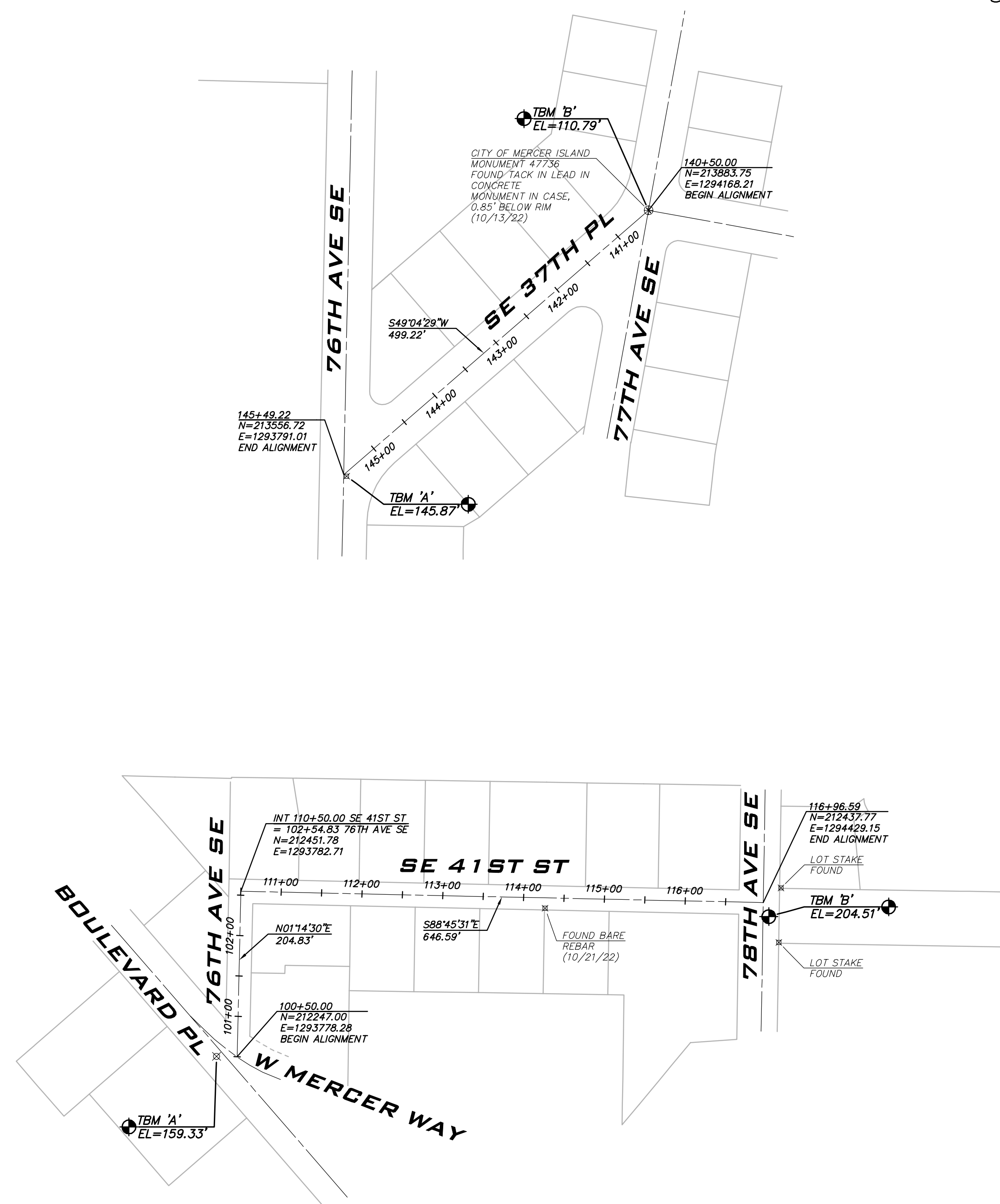
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BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

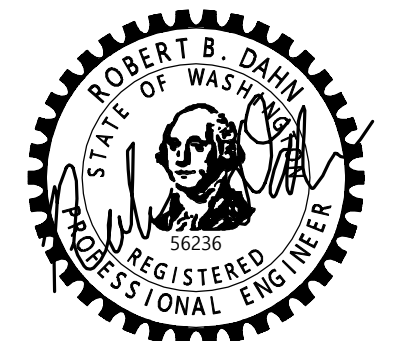
PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

ALIGNMENT PLAN & SURVEY DATA - ZONE C
 2023 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

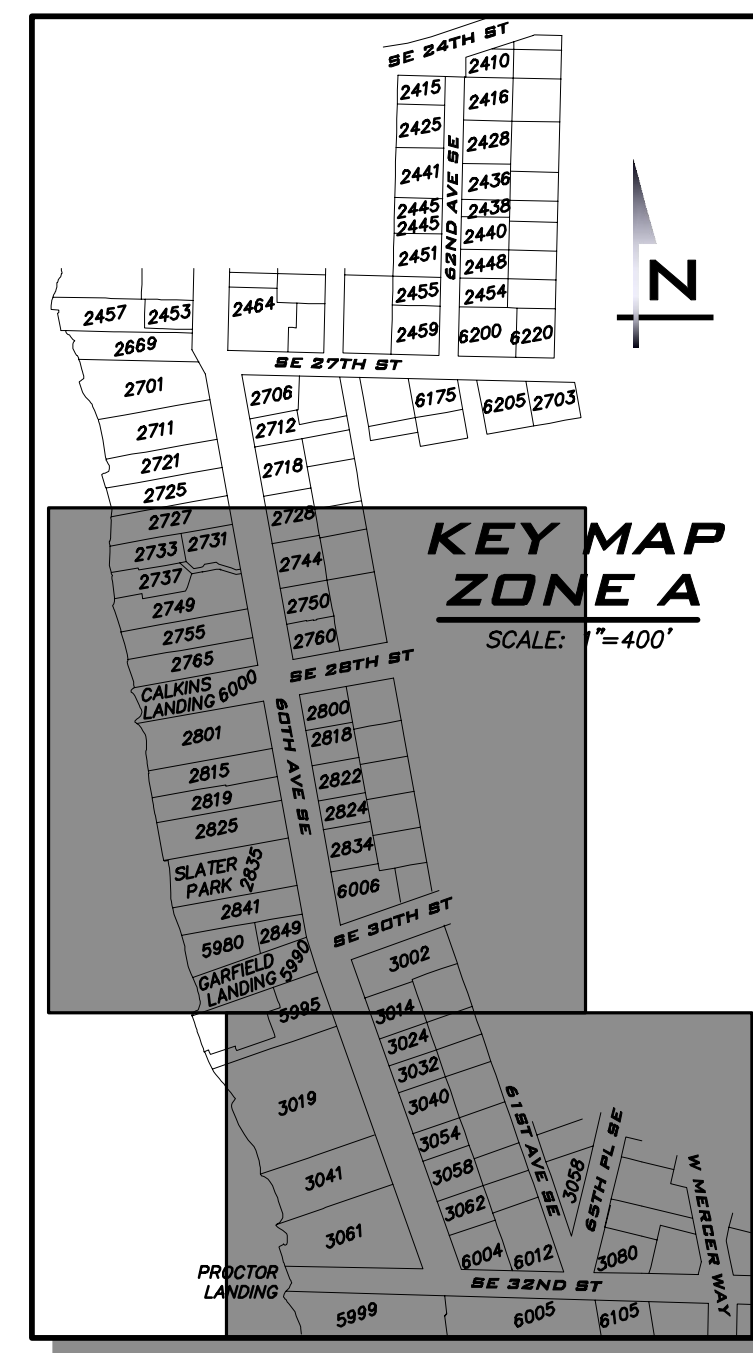
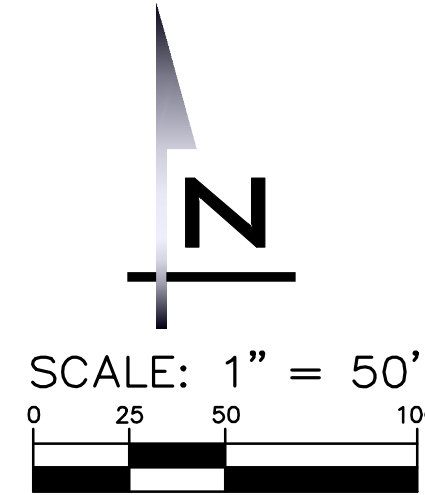


6/9/23

JOB NUMBER:
22-229

SHEET NAME:
AL-05

SHT **11** OF **68**



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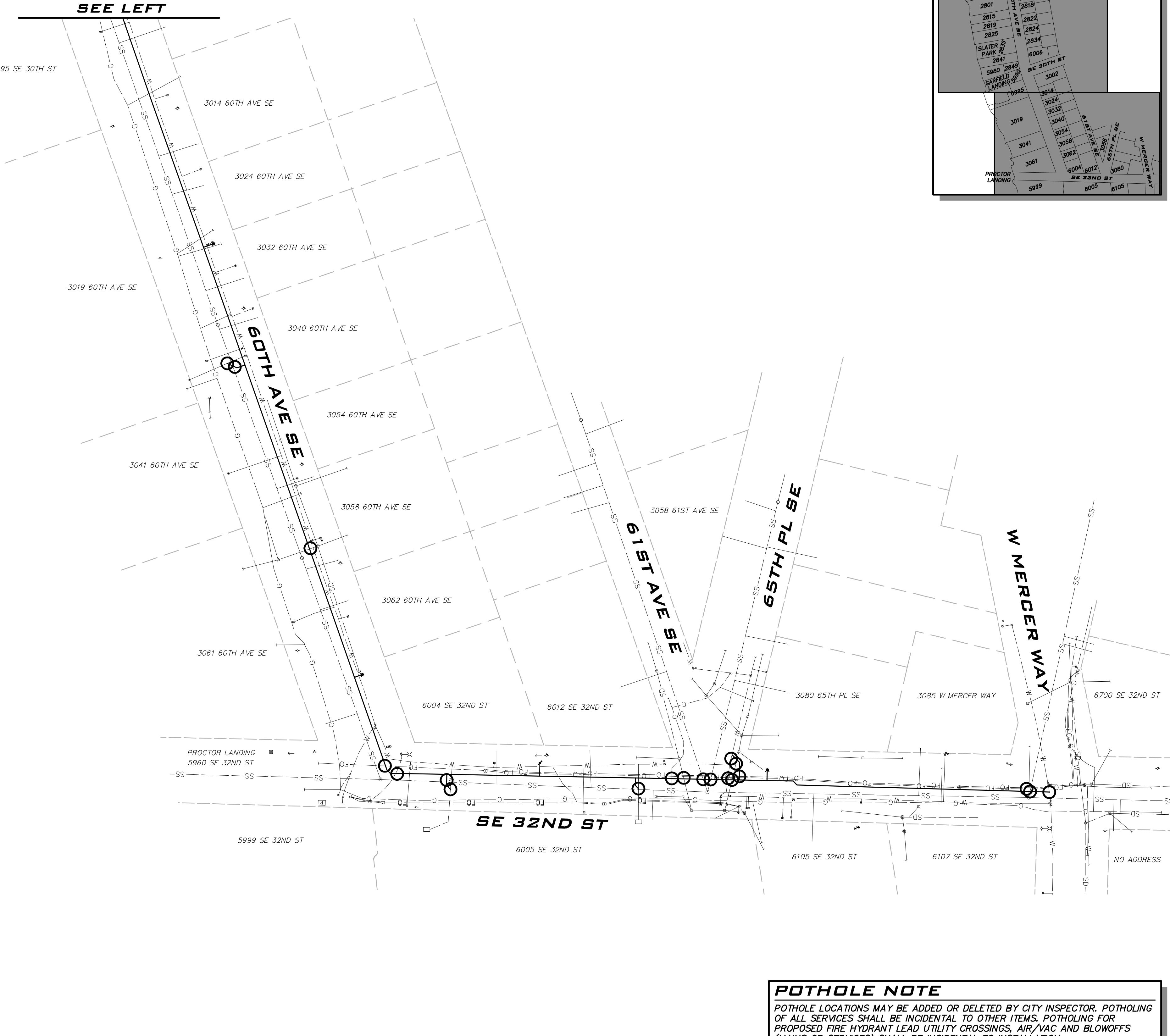
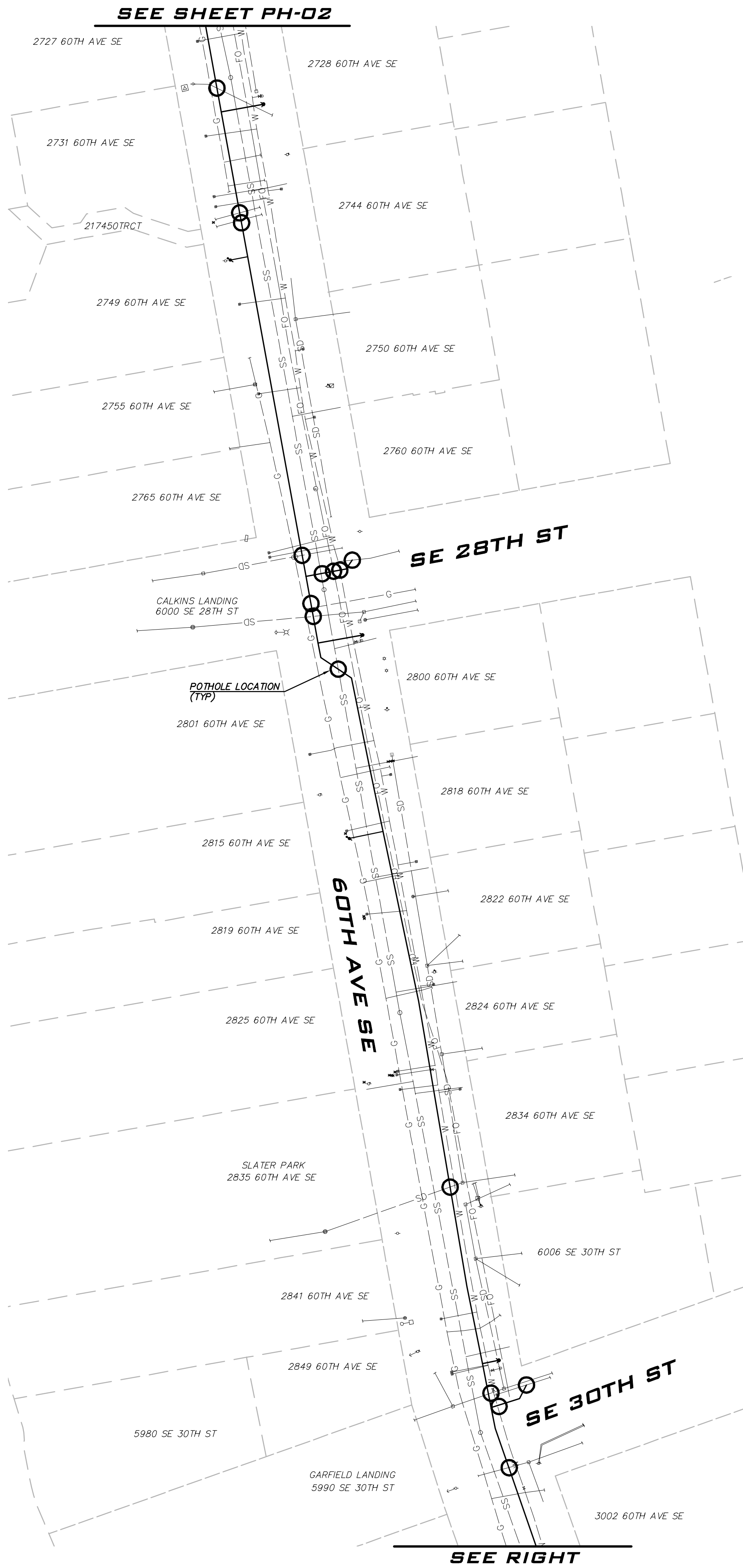
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

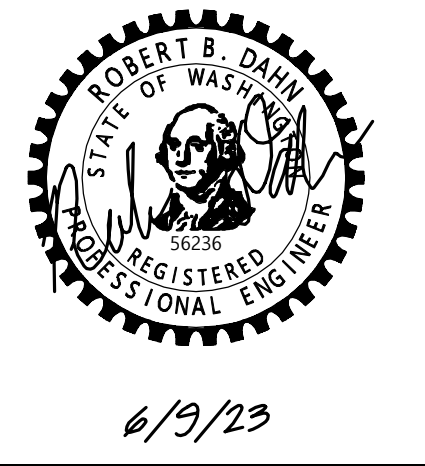
ISSUE DATE:
6/9/2023



NO	DATE	BY	REVISIONS

CONTRACTOR PAID
POTHOLING PLAN - ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT

CITY OF MERCER ISLAND WASHINGTON



6/9/23

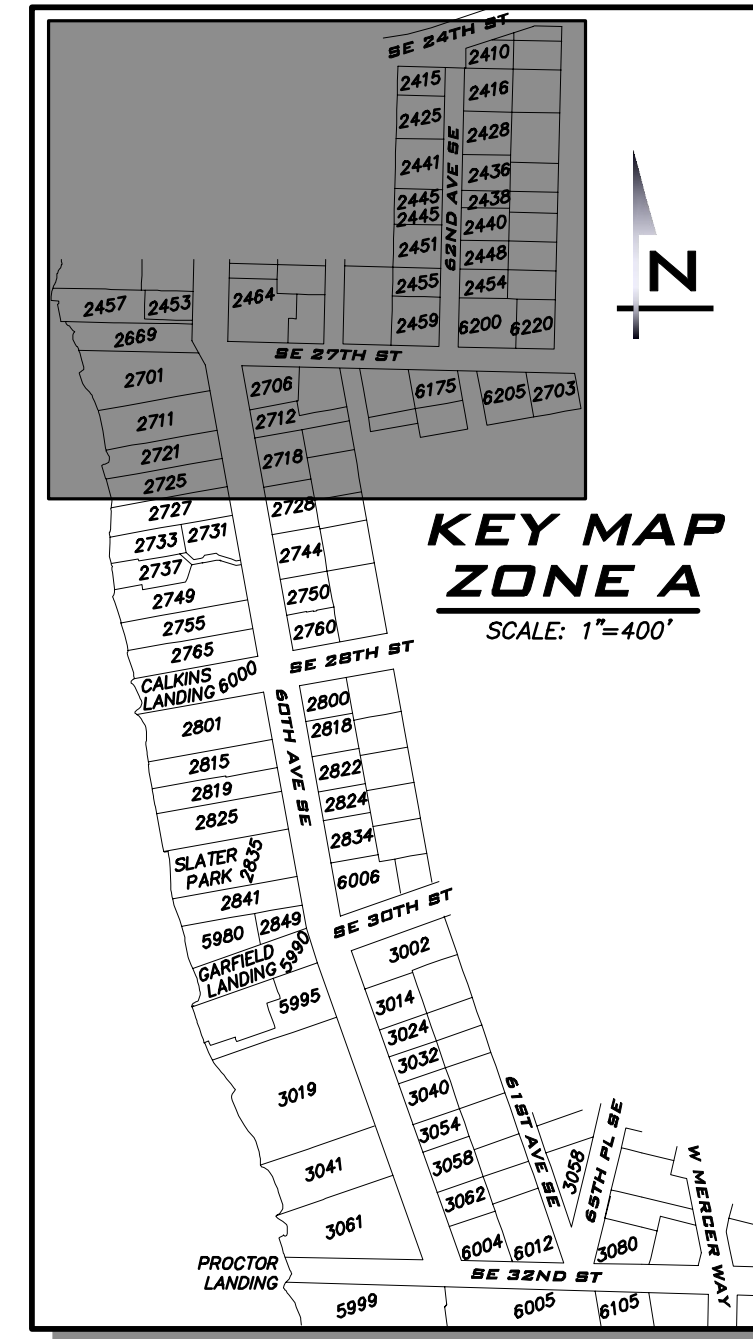
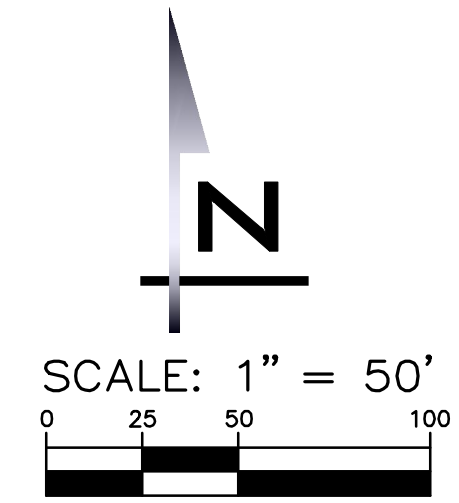
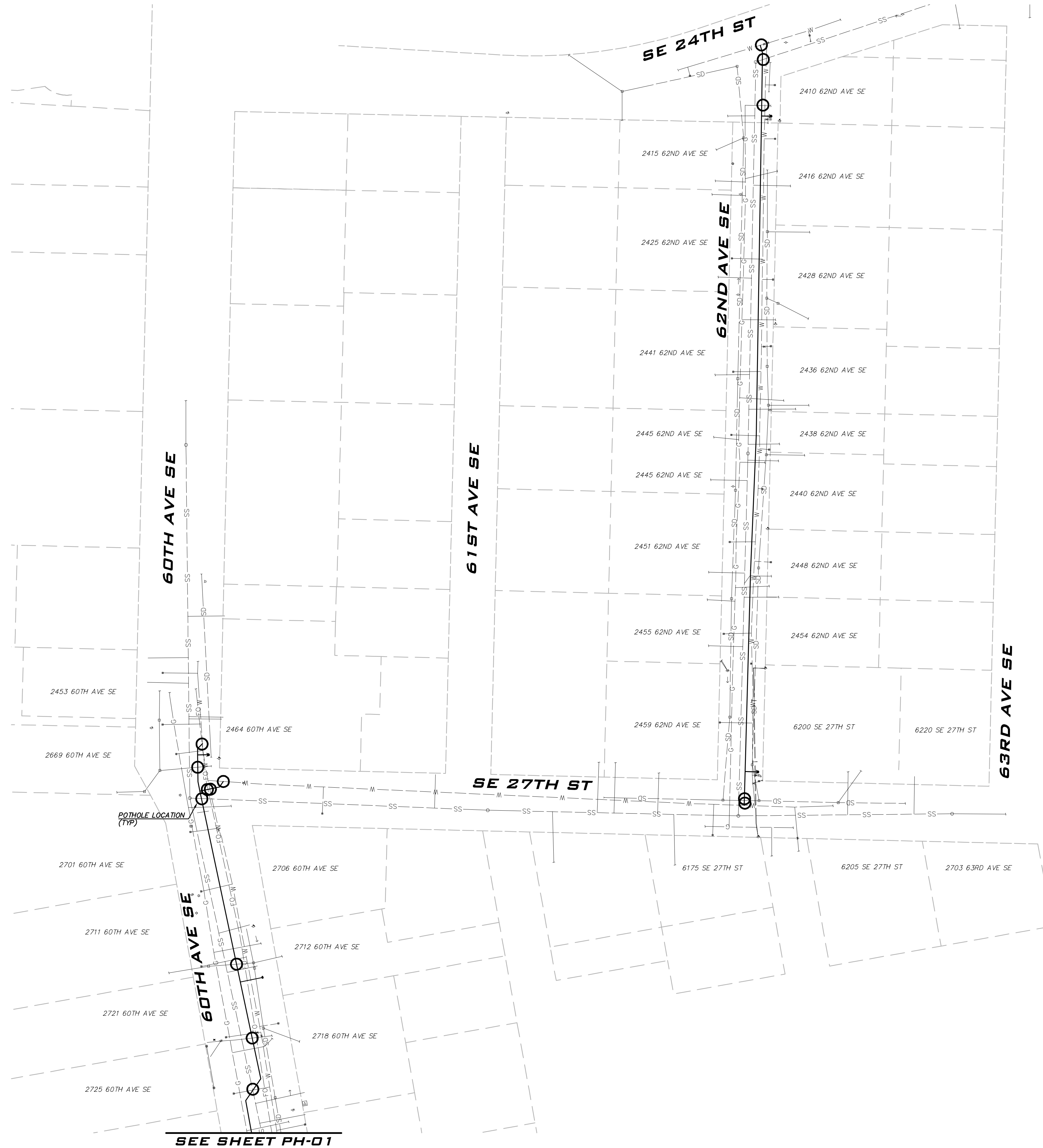
JOB NUMBER:
22-229

SHEET NAME:
PH-01

POTHOLE NOTE

POTHOLE LOCATIONS MAY BE ADDED OR DELETED BY CITY INSPECTOR. POTHOLES OF ALL SERVICES SHALL BE INCIDENTAL TO OTHER ITEMS. POTHOLES FOR PROPOSED FIRE HYDRANT LEAD UTILITY CROSSINGS, AIR/VAC AND BLOWOFFS (MANS OR SERVICES) SHALL BE INCIDENTAL TO INSTALLATION.

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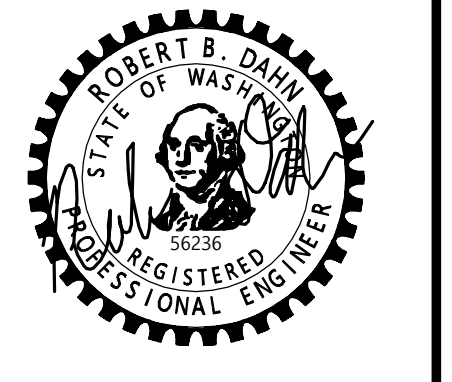


BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P: 425.216.4051 F: 425.216.4052
 WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED
 PROJECT MANAGER:
 ROB DAHN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 6/9/2023

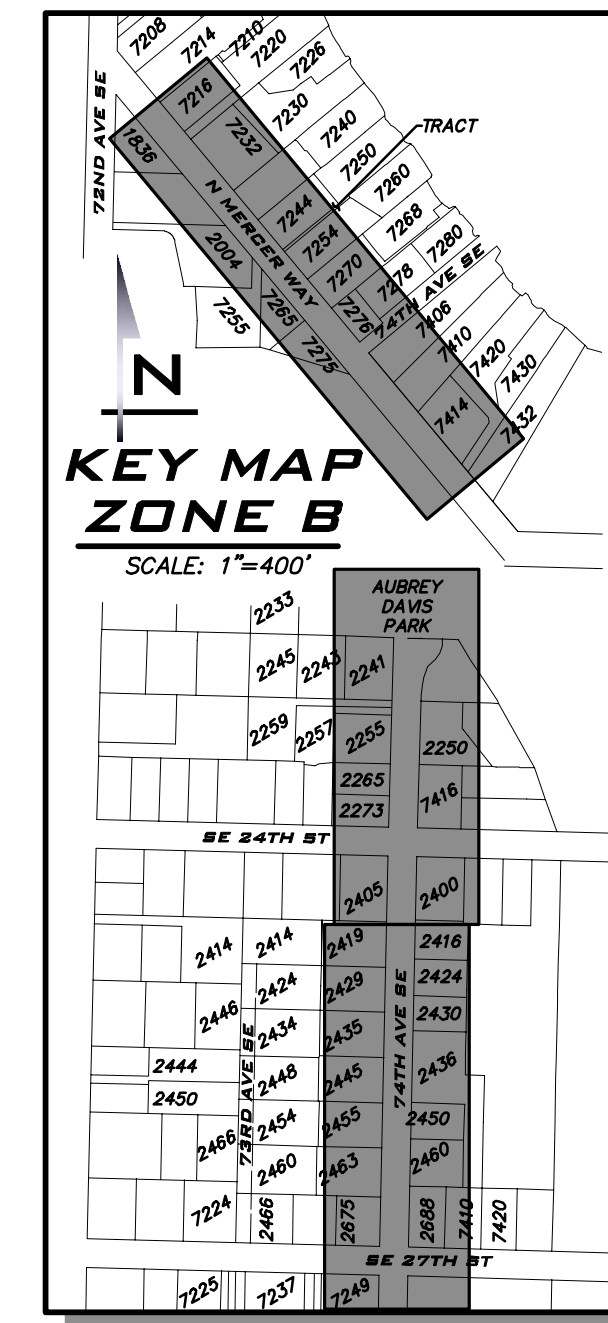
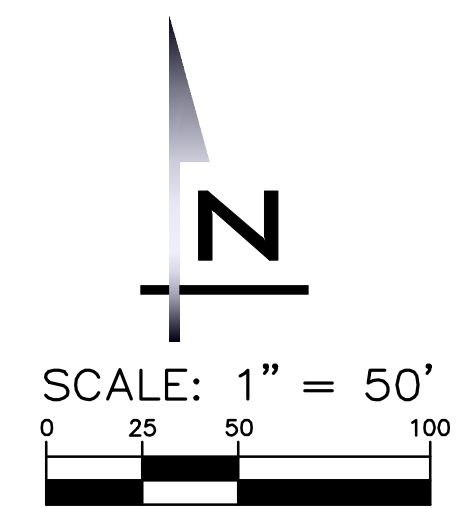
NO	DATE	BY	REVISIONS

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 POTHOLES PLAN - ZONE A
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON**



6/9/23
 JOB NUMBER:
22-229
 SHEET NAME:
PH-02

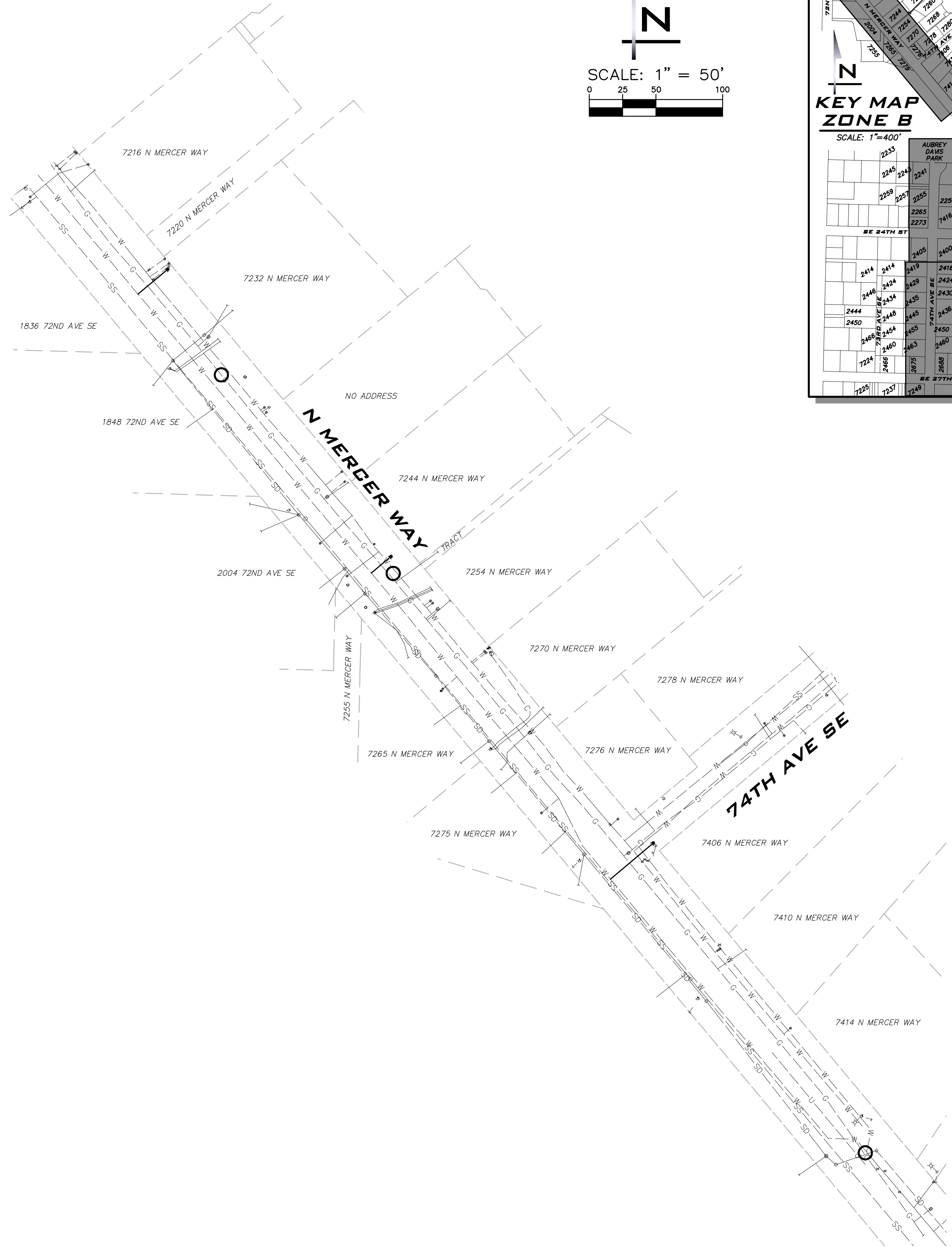
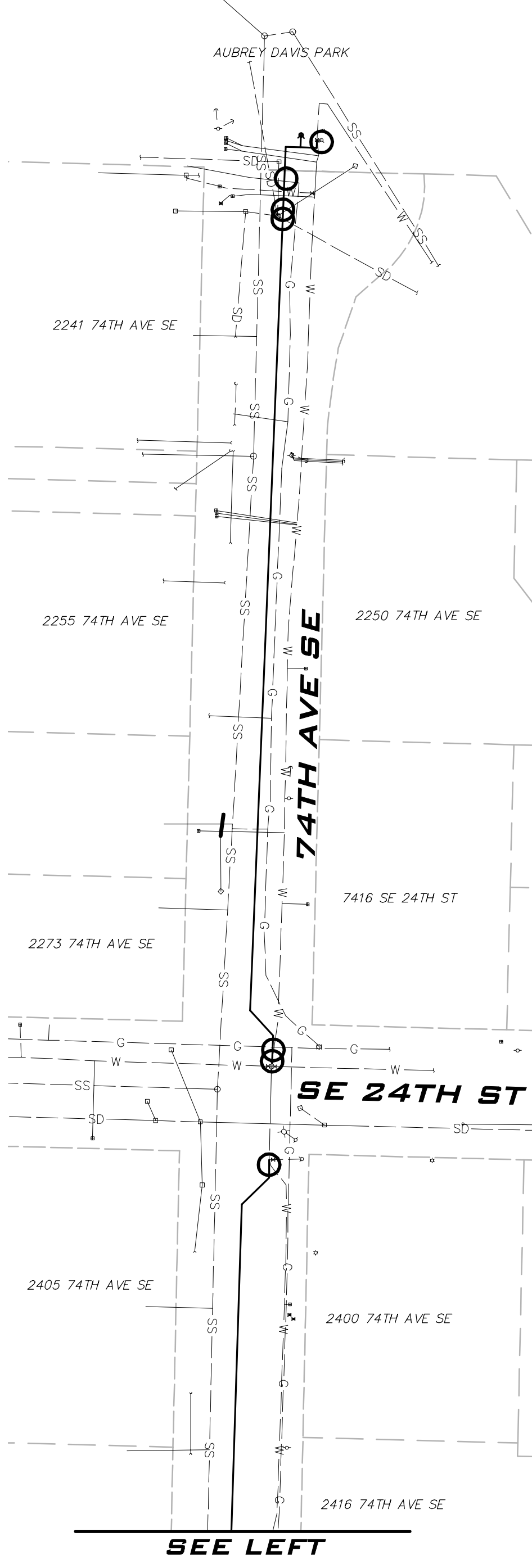
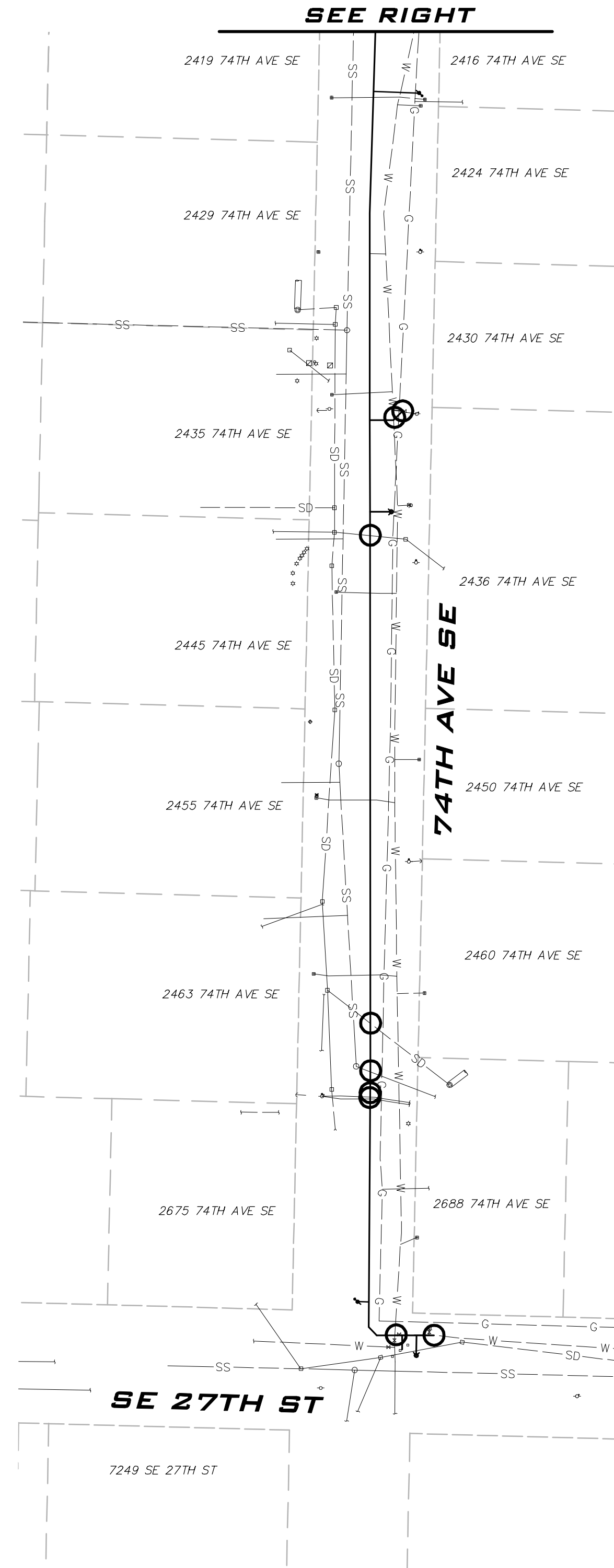
POTHOLE NOTE
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25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

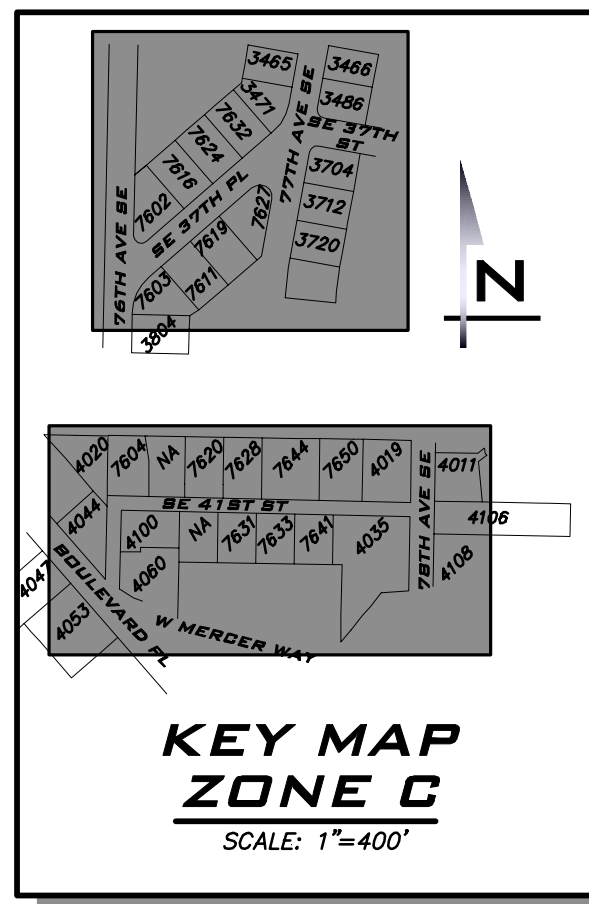
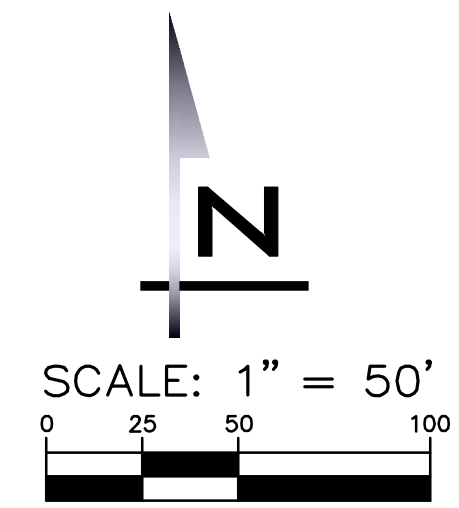


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**CONTRACTOR PAID
POTHOLING PLAN - ZONE B
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**
CITY OF MERCER ISLAND WASHINGTON

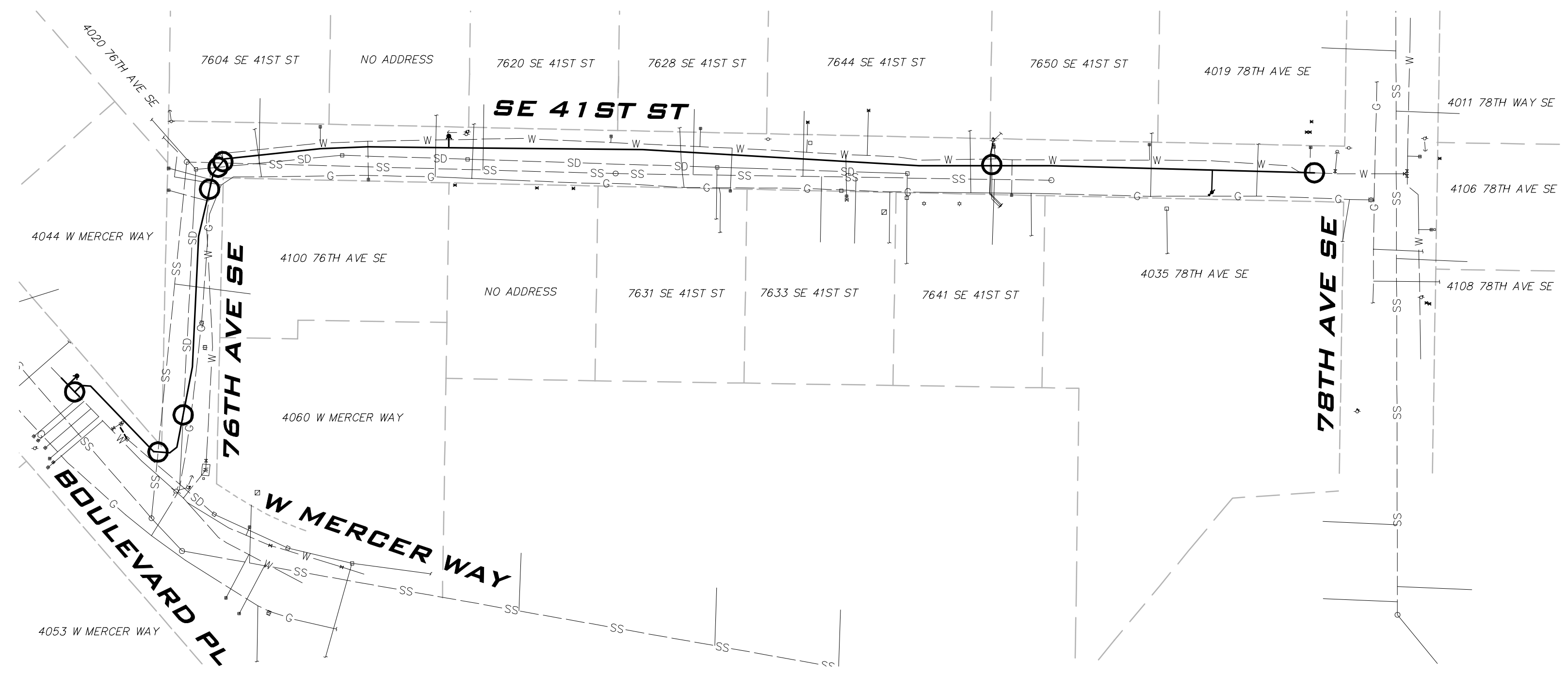
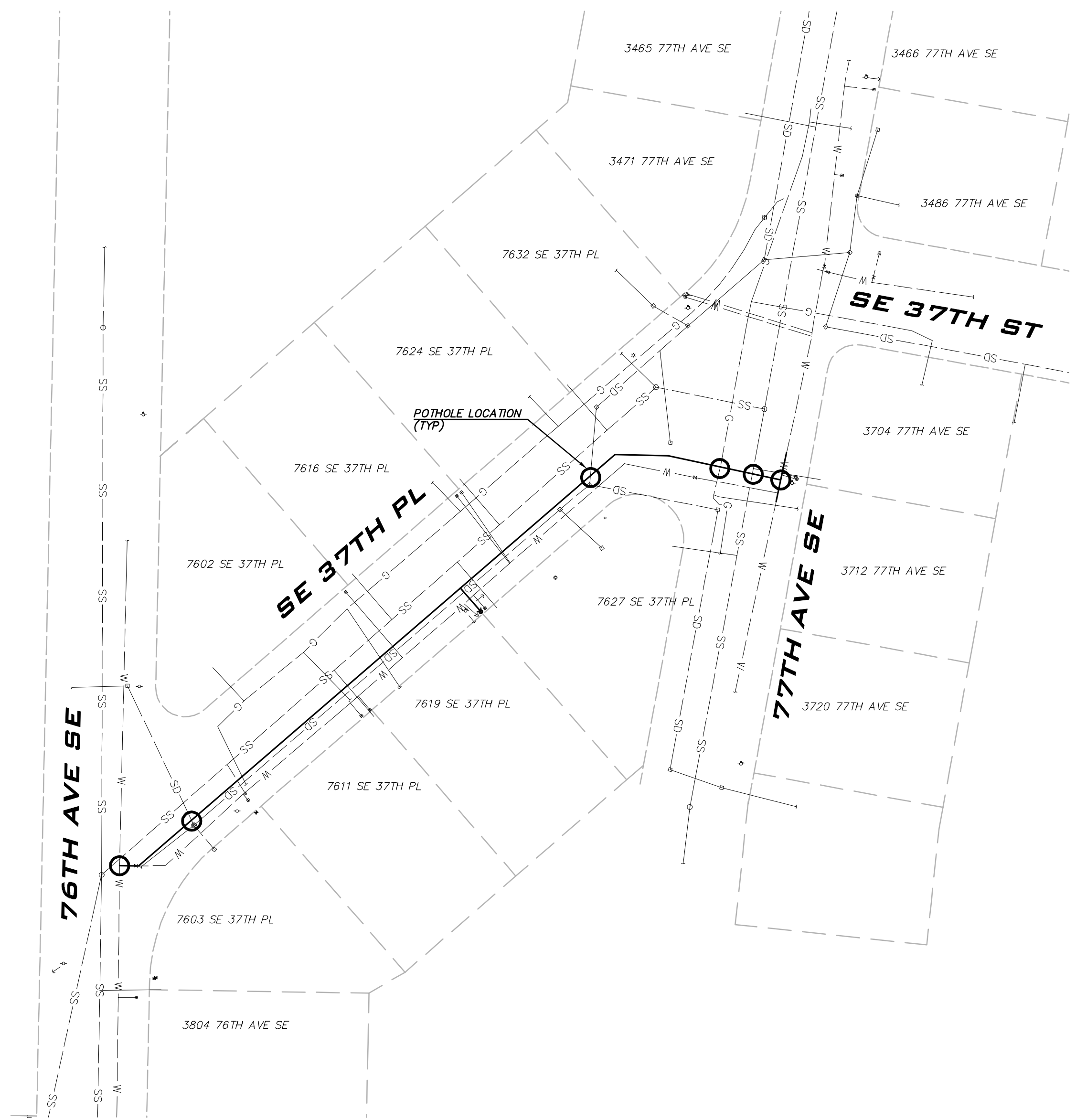
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JOB NUMBER:
22-229
SHEET NAME:
PH-03
SHT **14** OF **68**

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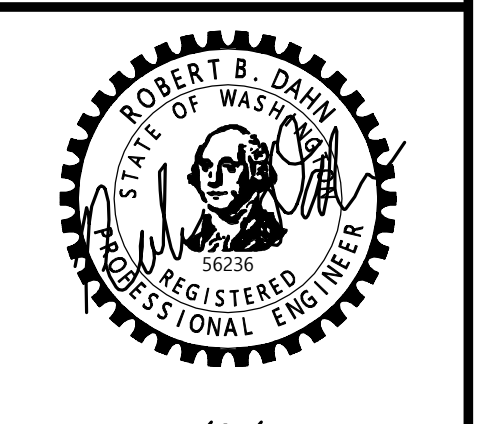
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KIRKLAND, WA 98033
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SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023



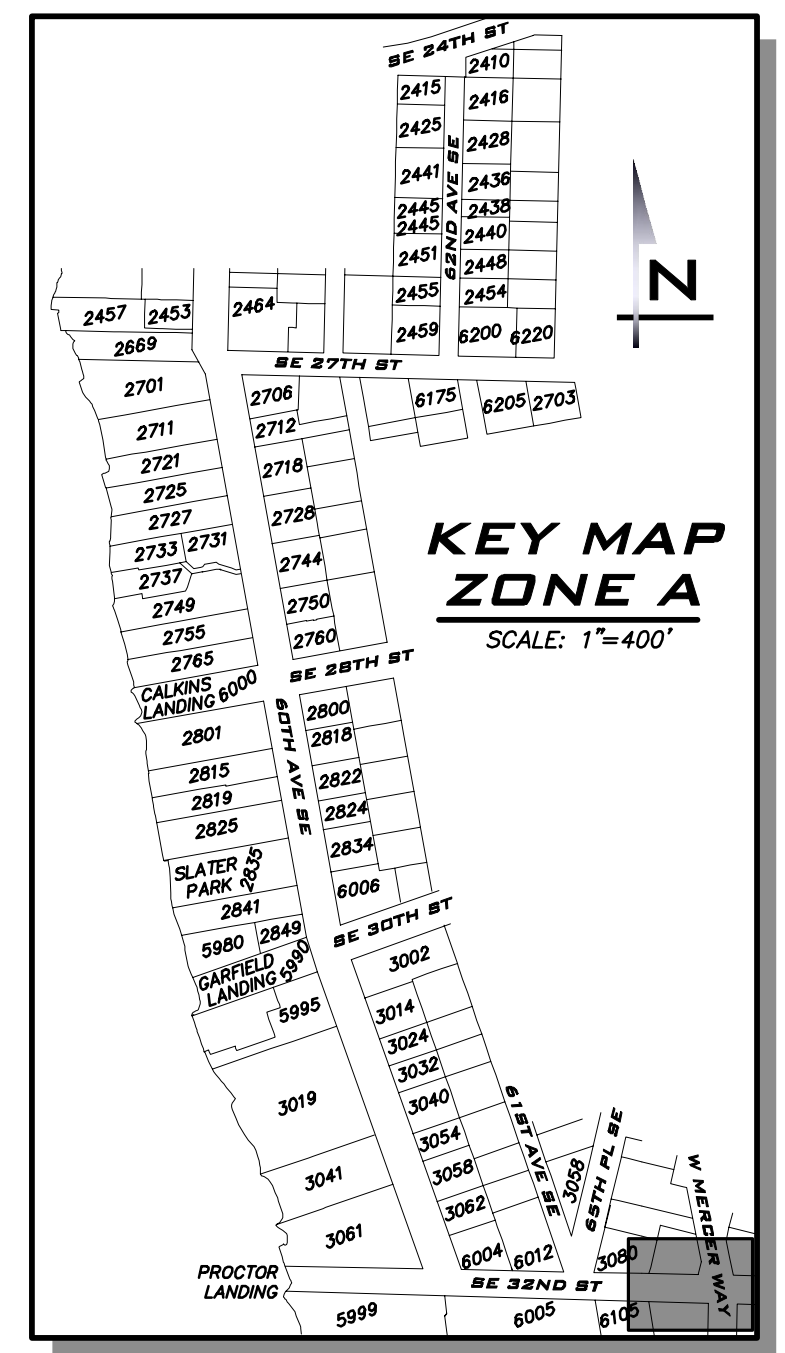
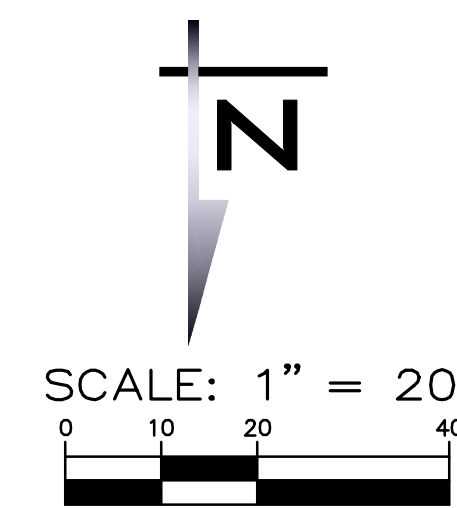
NO	DATE	BY	REVISIONS

CONTRACTOR PAID
POTHOLING PLAN - ZONE C
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
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SHEET NAME:
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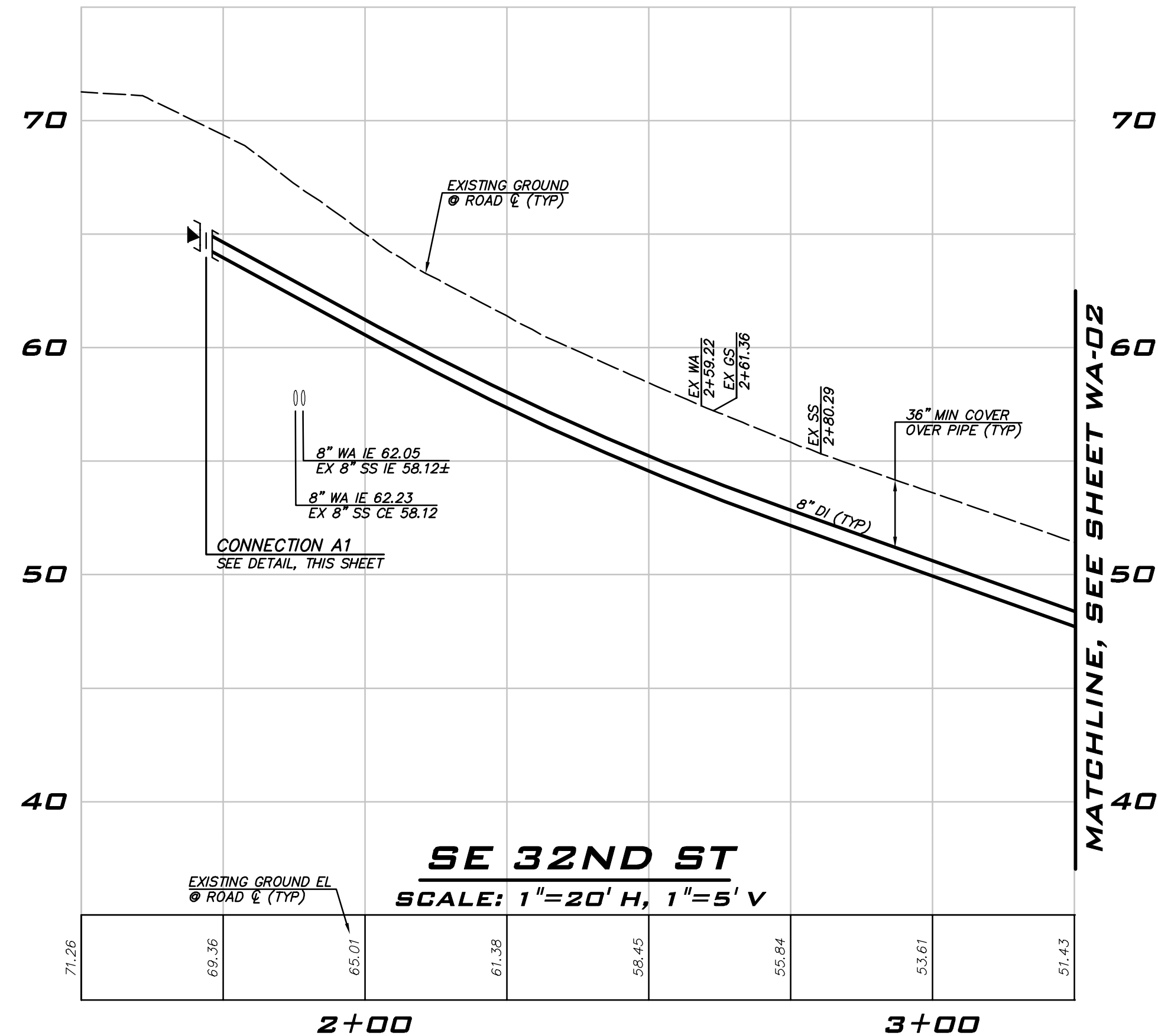
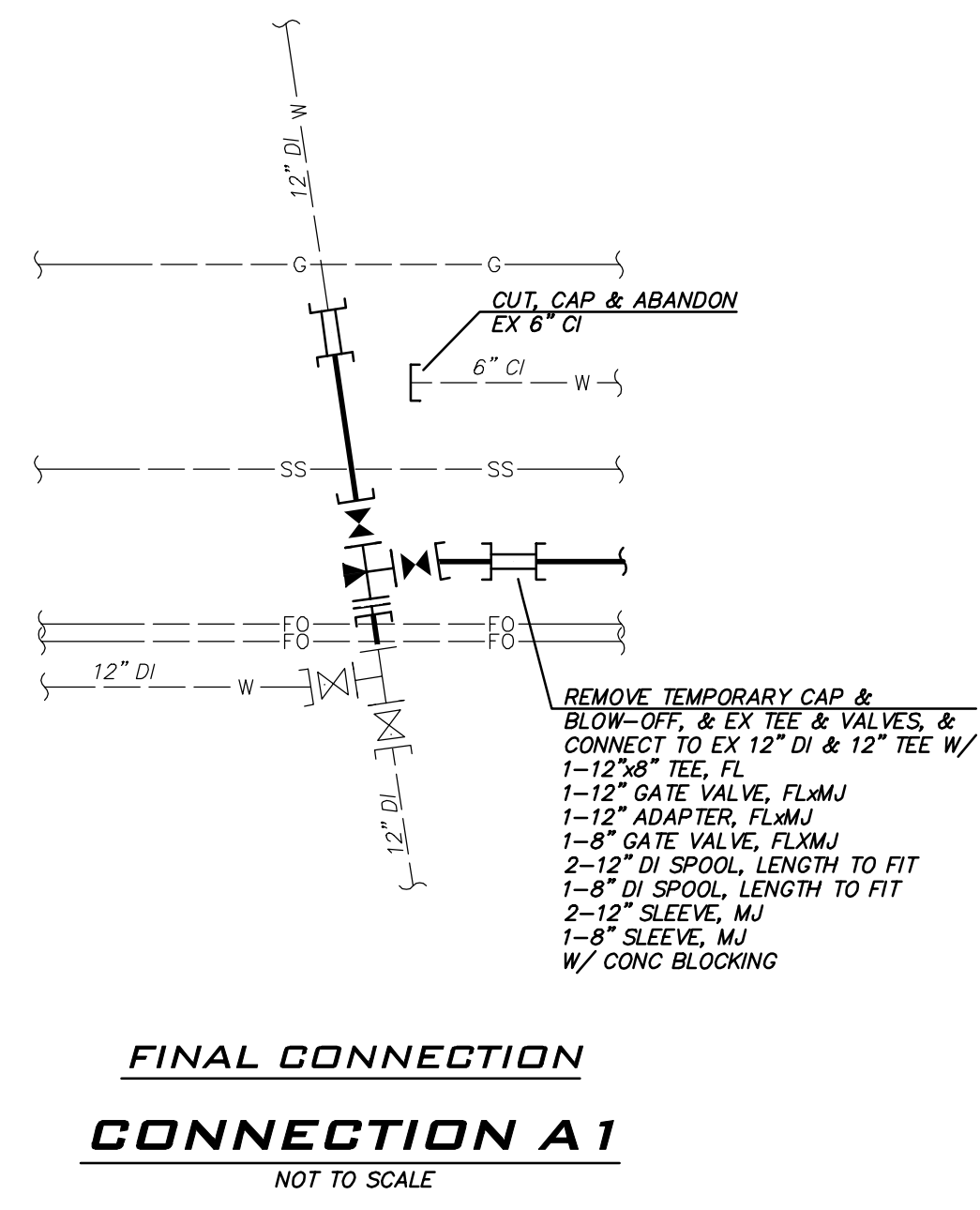
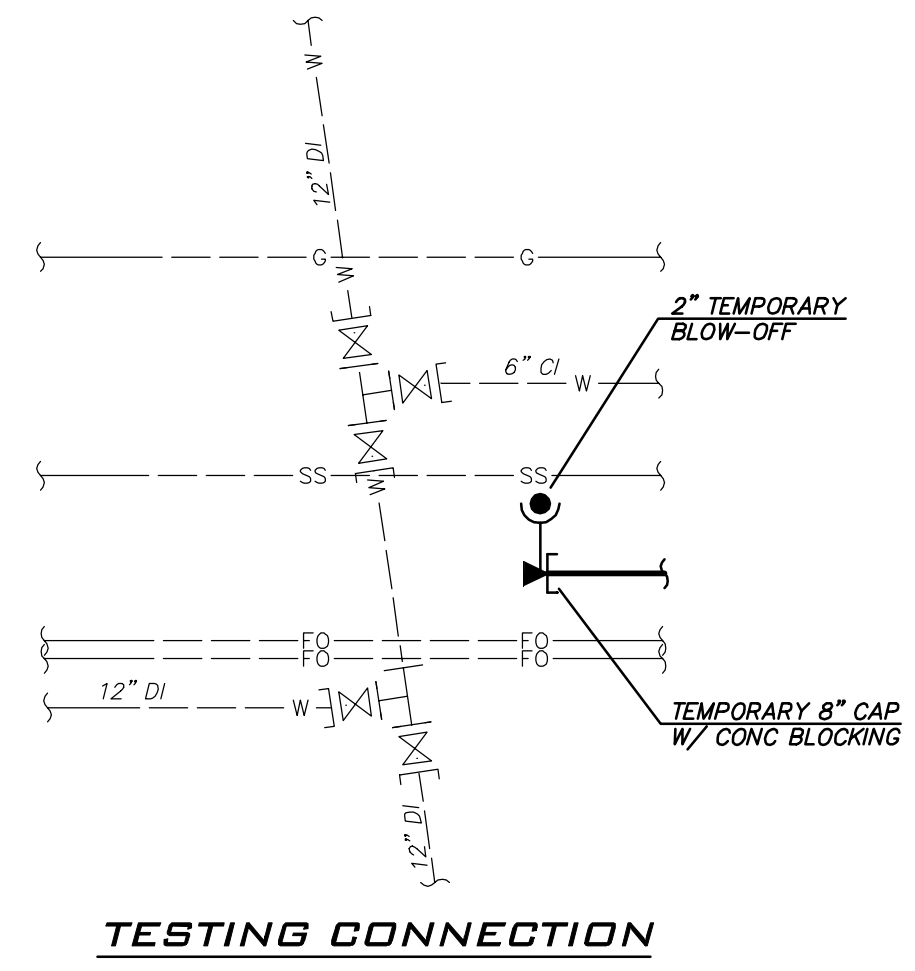
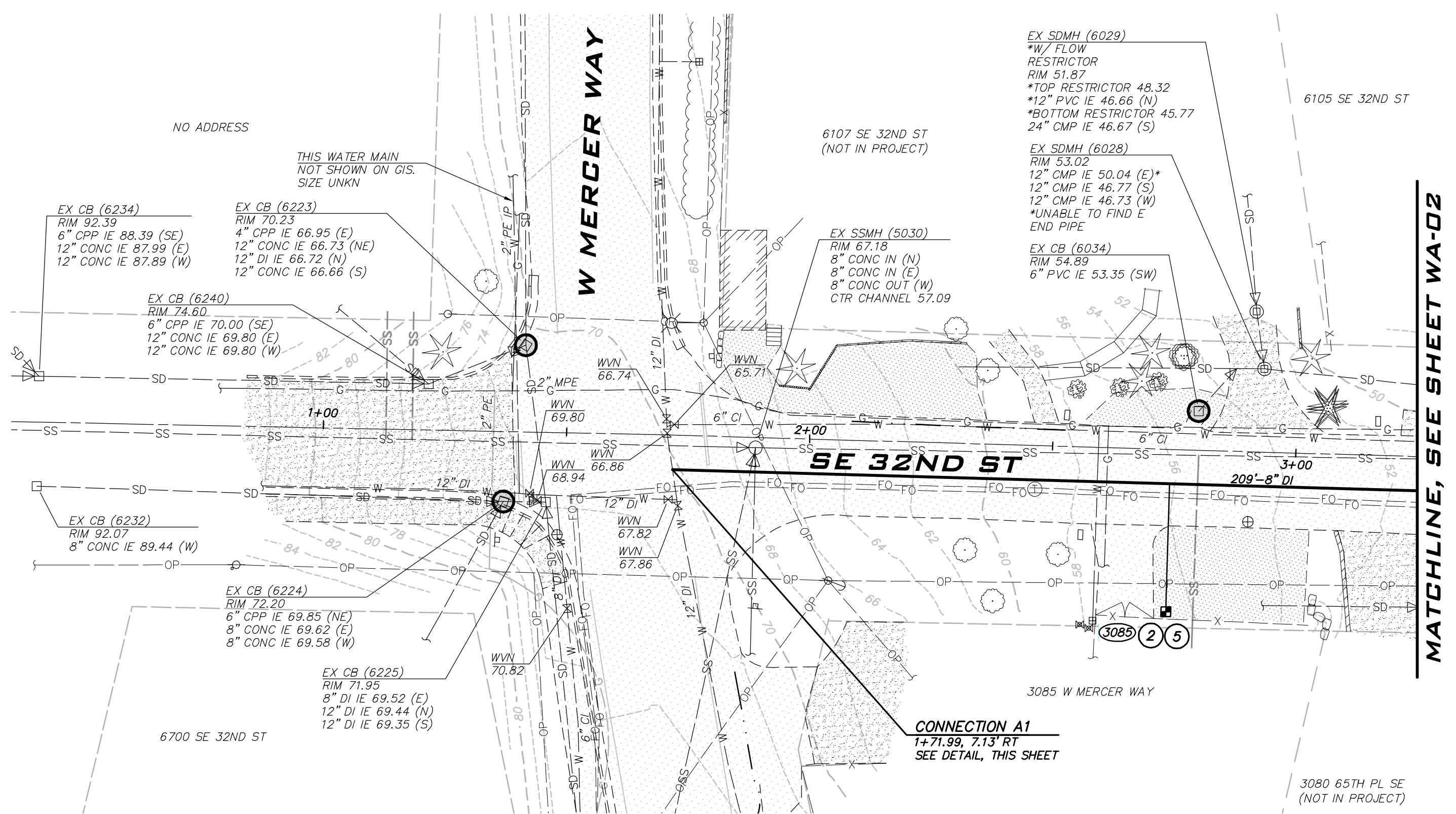
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BLUELINE logo and contact information for the engineering firm.

Project details including scale, project manager (Rob Dahm, PE), project engineer (Grace Garwin, EIT), designer (Carol Doggett), and issue date (6/9/2023).

Revisions table with columns for NO, DATE, BY, and REVISIONS.

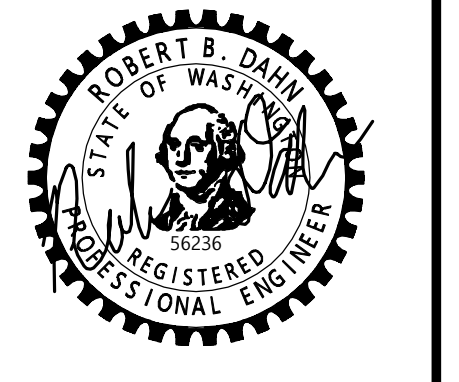


- CONSTRUCTION NOTES: 1. ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS... 2. MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES... 3. COORDINATE VALVE SHUTOFFS WITH CITY... 4. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE...

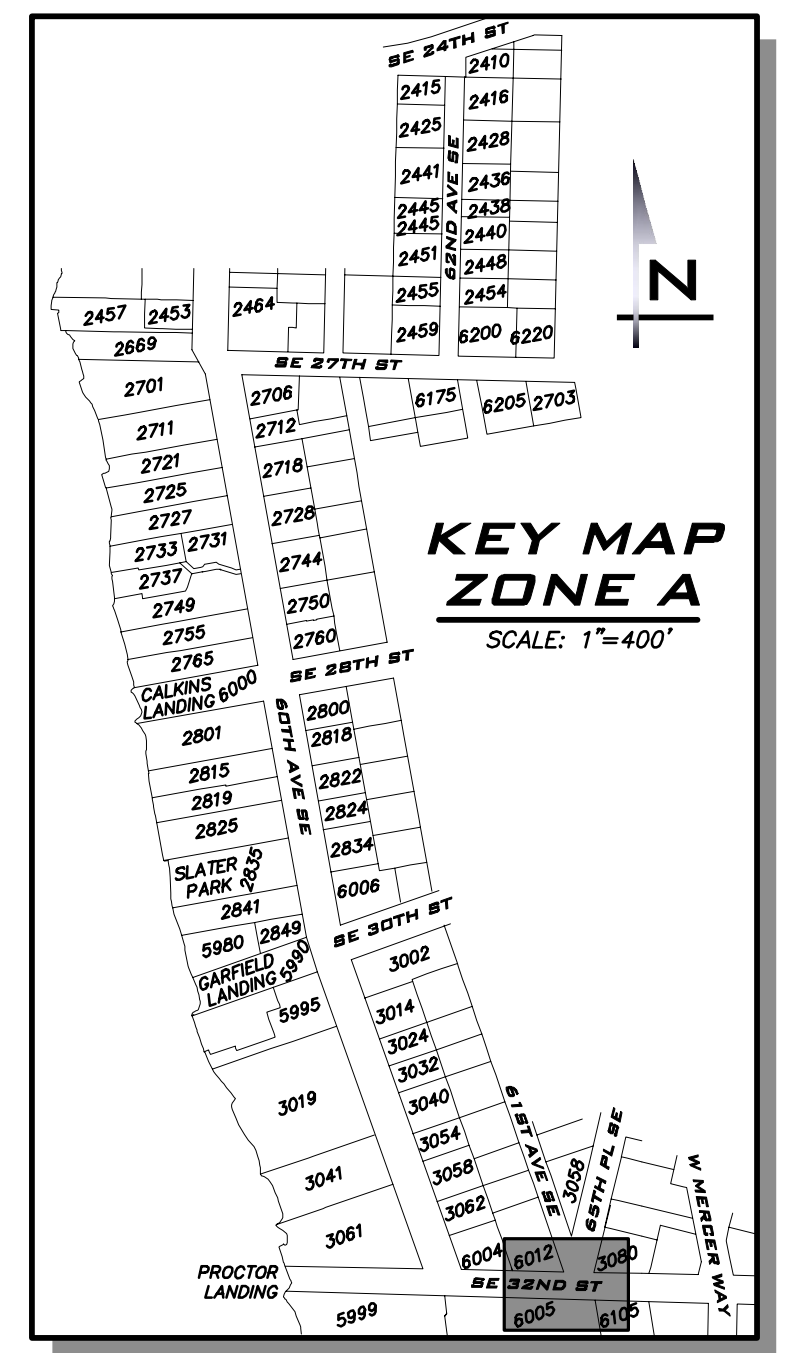
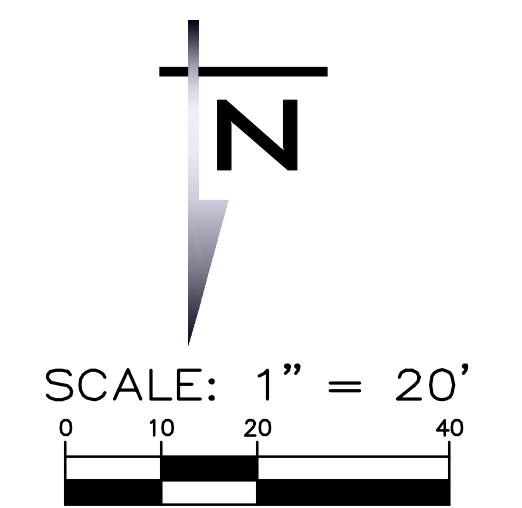
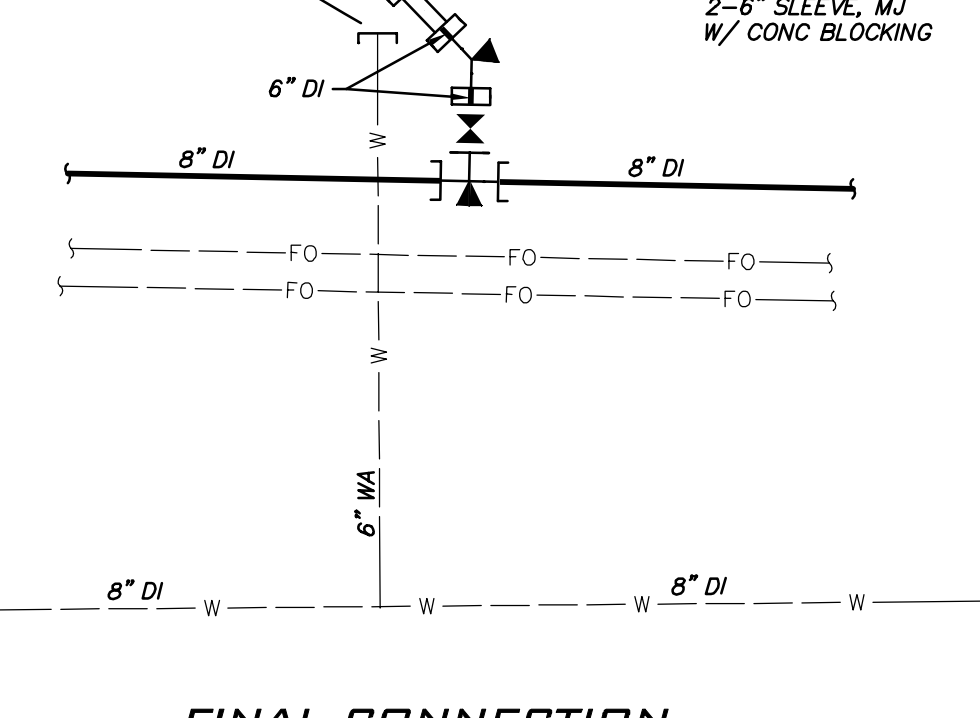
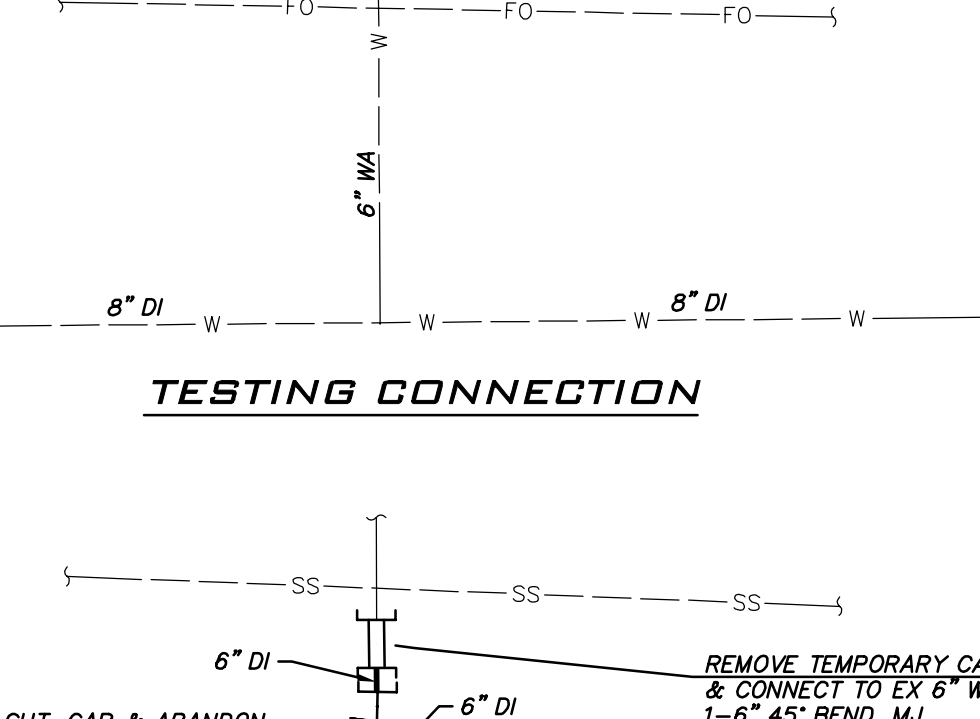
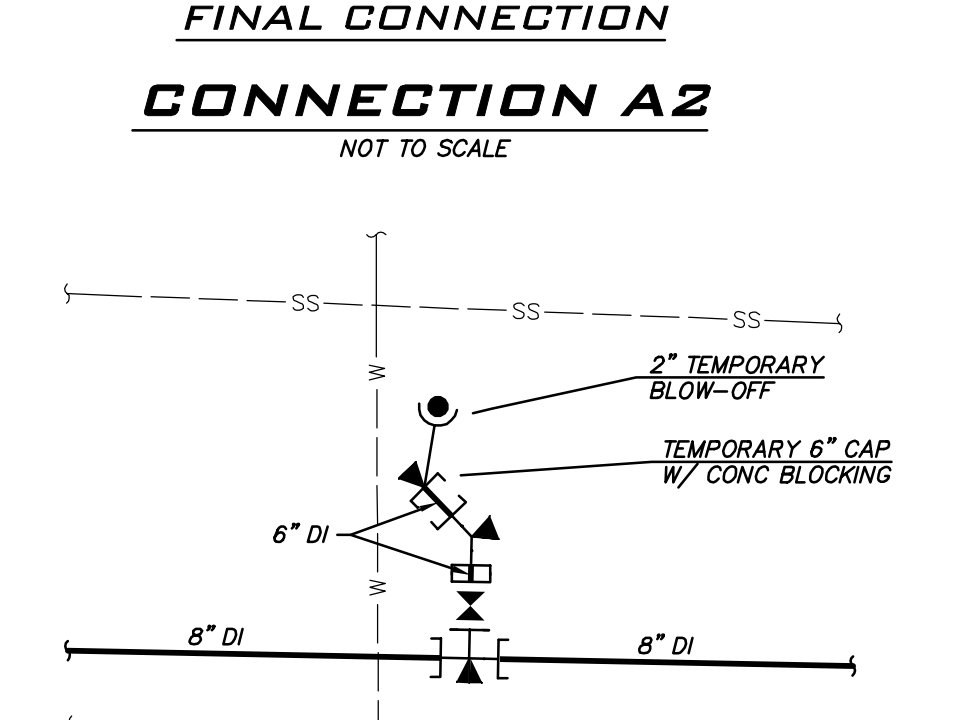
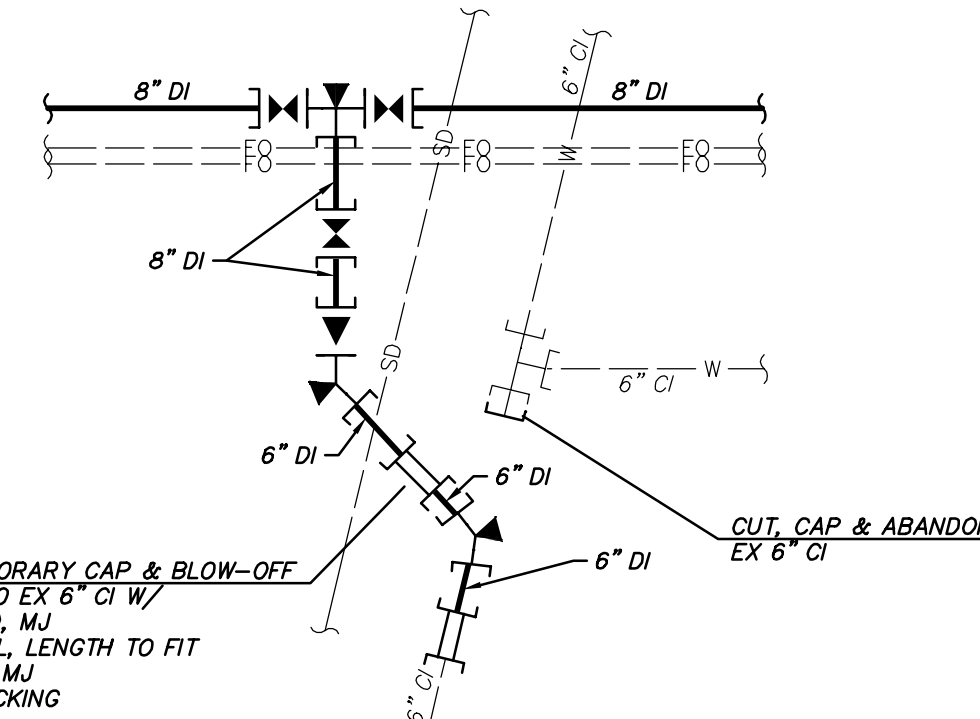
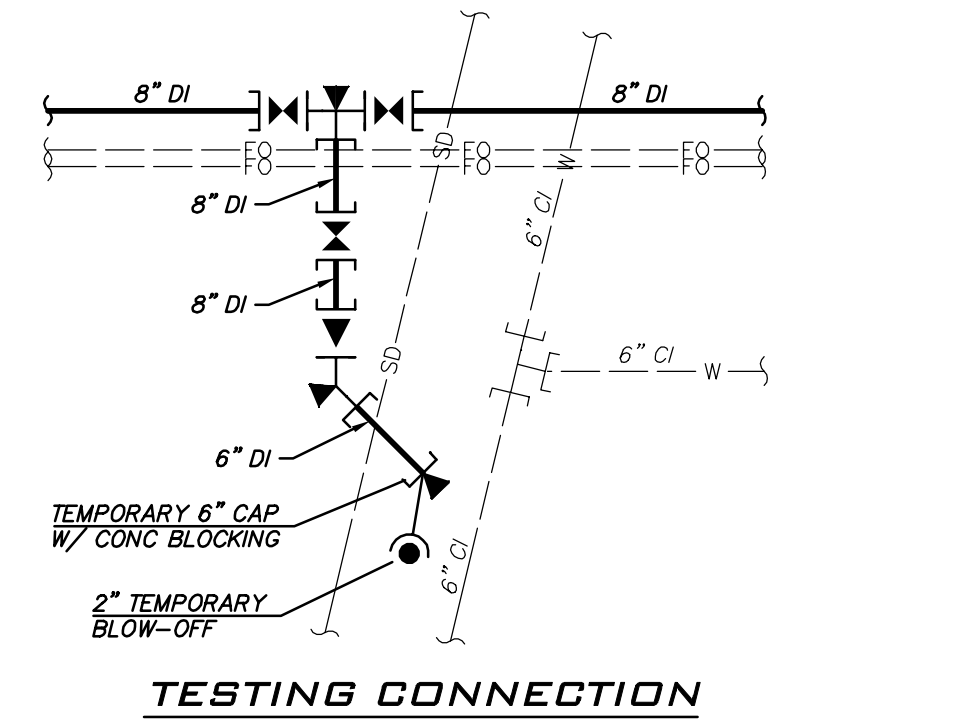
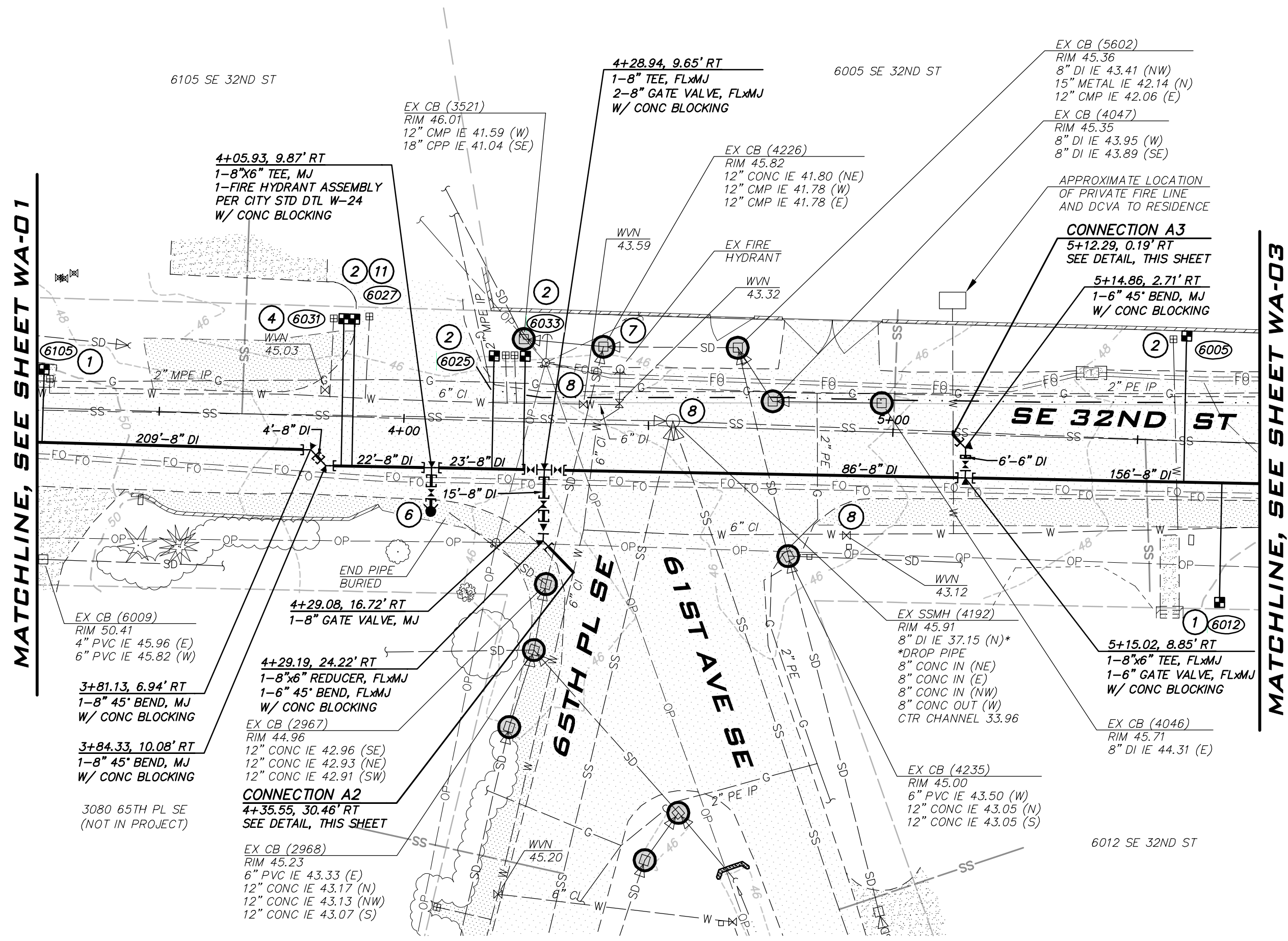
- NOTES: 1. INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13... 2. INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13... 3. INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER... 4. INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER... 5. CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE... 6. CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE... 7. REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END... 8. EXISTING GATE VALVE ON MAIN TO BE ABANDONED... 9. METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED... 10. EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER... 11. REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX... 12. INTERCEPT EXISTING 1.5" SERVICE. CUT EXISTING SERVICE LINE... 13. COMPLETE SERVICE INSTALLATION PRIOR TO ABANDONMENT... 14. INSTALL 2" LONG SIDE WATER SERVICE FOR 2" METER...

EXISTING UTILITY NOTE: EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN...

WATER PLAN - SE 32ND ST - ZONE A 2023 WATER SYSTEM IMPROVEMENTS PROJECT CITY OF MERCER ISLAND WASHINGTON



Date: 6/9/23, Job Number: 22-229, Sheet Name: WA-01



BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P: 425.216.4051 F: 425.216.4052
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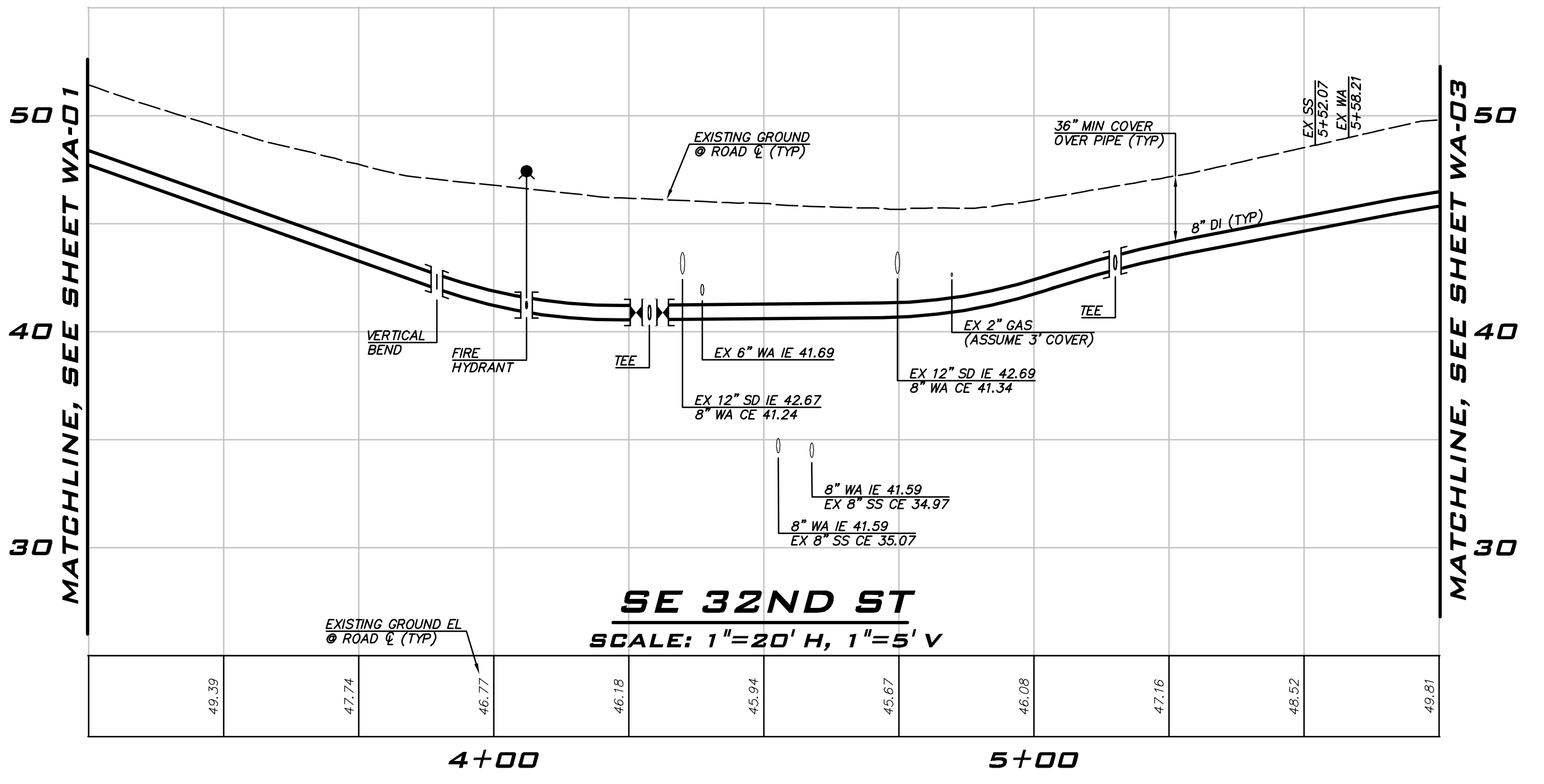
SCALE: AS NOTED
 PROJECT MANAGER:
 ROB DAHN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 6/9/2023

NO	DATE	BY	REVISIONS

- CONSTRUCTION NOTES**
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
 - MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
 - COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 - LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

- NOTES**
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10)
 - INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10)
 - INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10)
 - INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10)
 - CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE AND RECONNECT NEW WATER METER LOCATION TO EXISTING CUSTOMER SIDE SERVICE.
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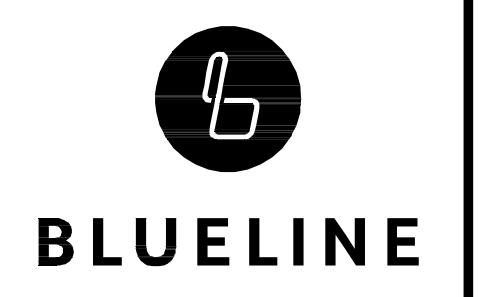
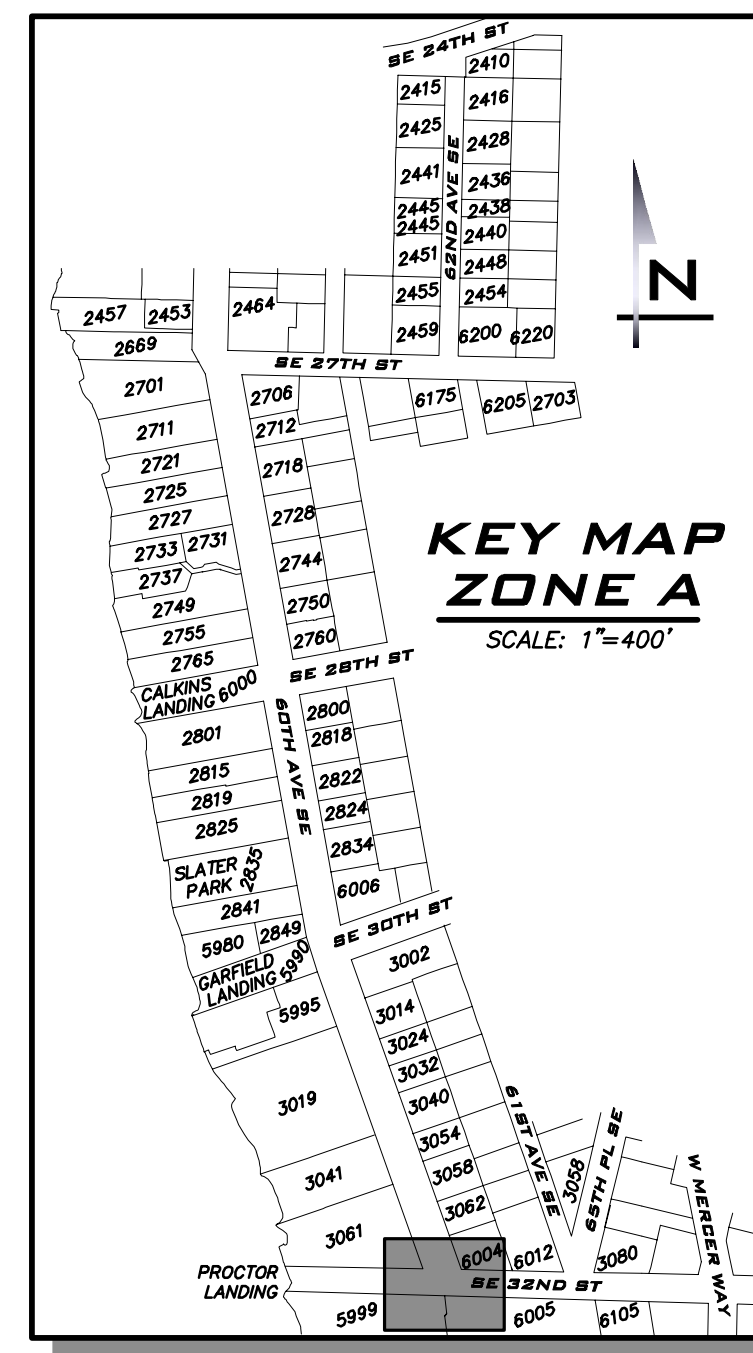
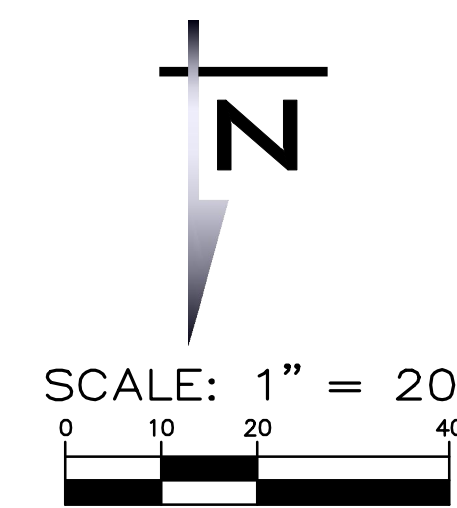
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WATER PLAN - SE 32ND ST -
 ZONE A
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

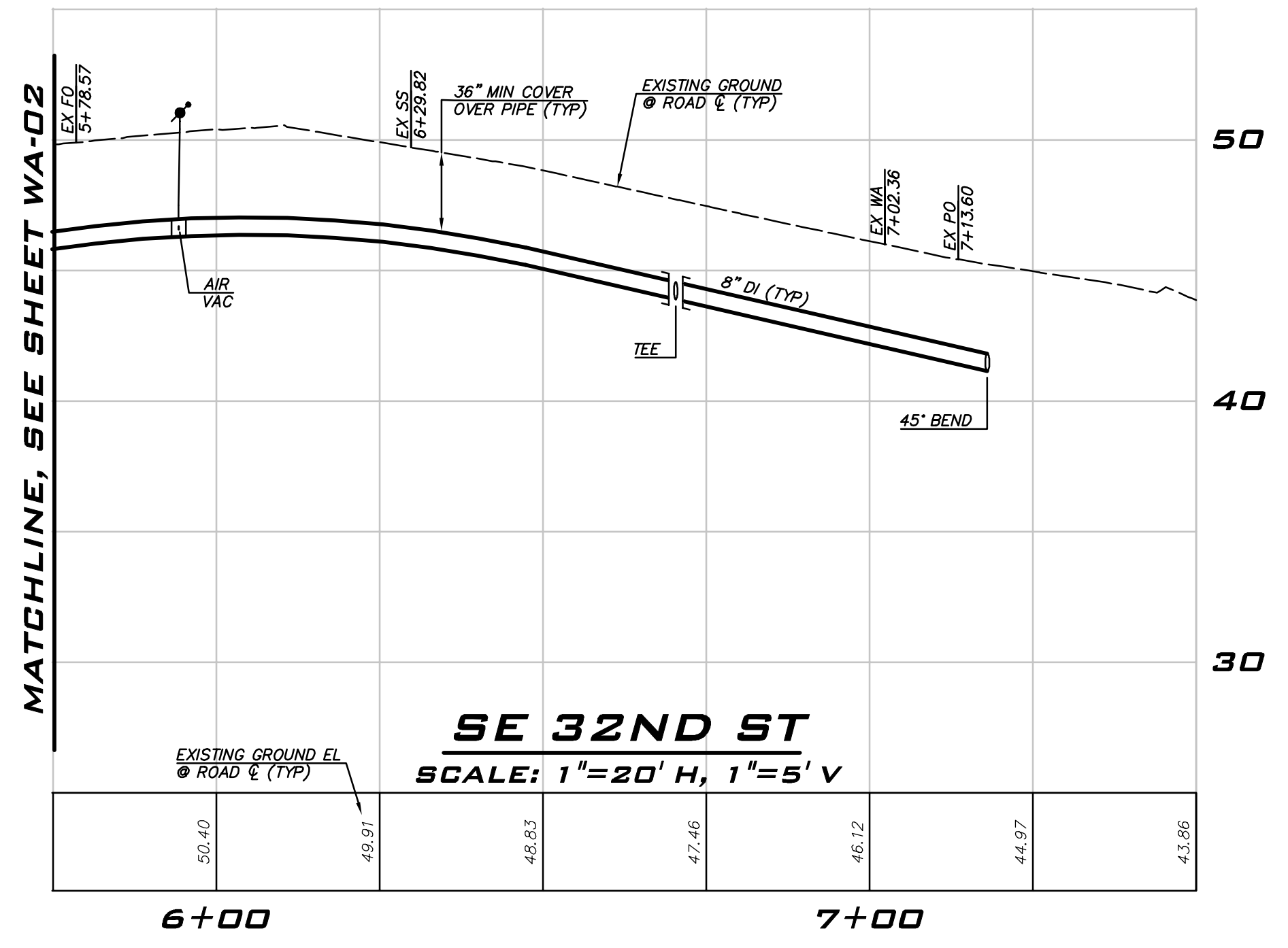
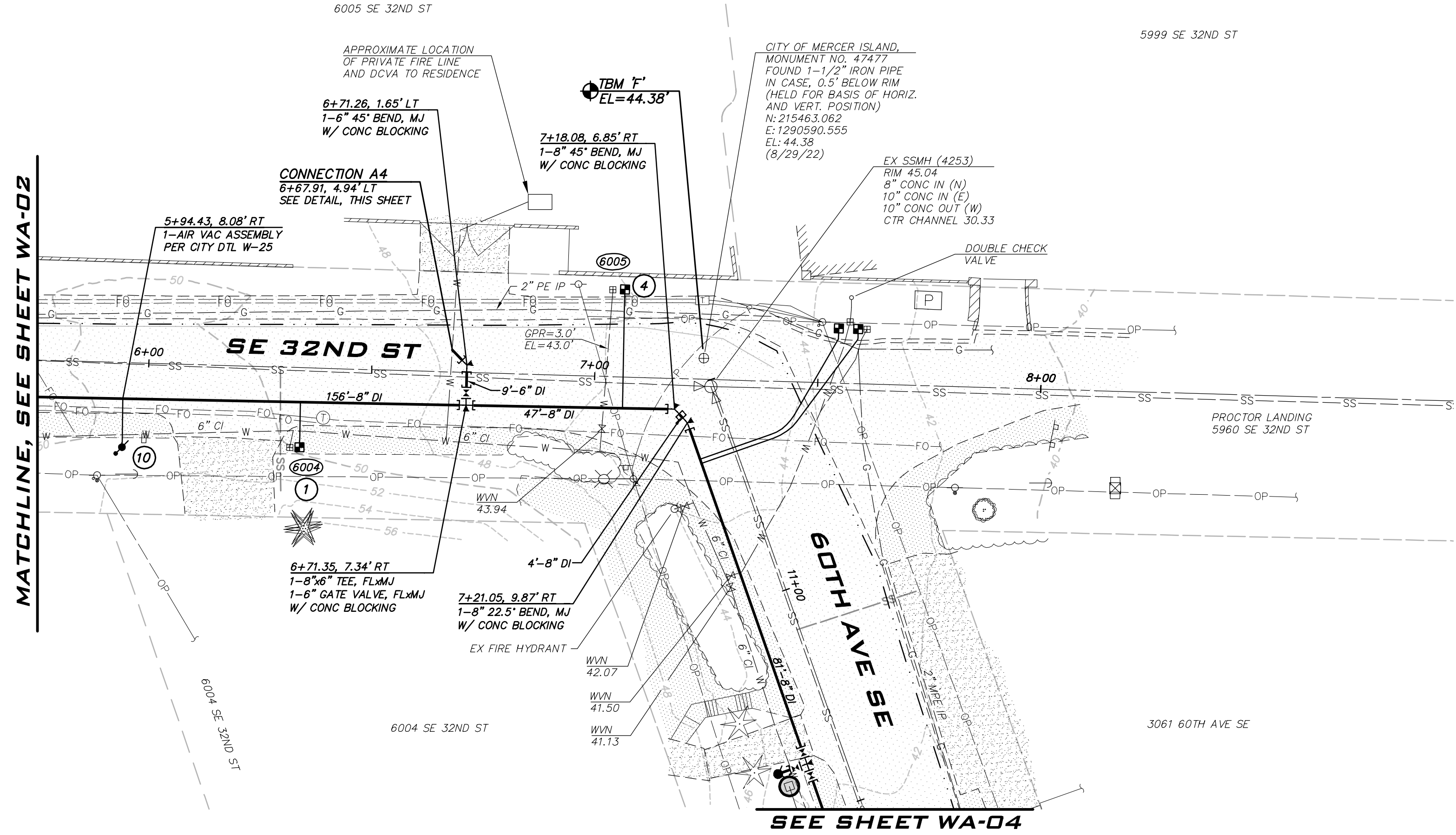
6/9/23
 JOB NUMBER:
22-229
 SHEET NAME:
WA-02
 SHT **17** OF **68**



25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS



MATCHLINE, SEE SHEET WA-02

MATCHLINE, SEE SHEET WA-02

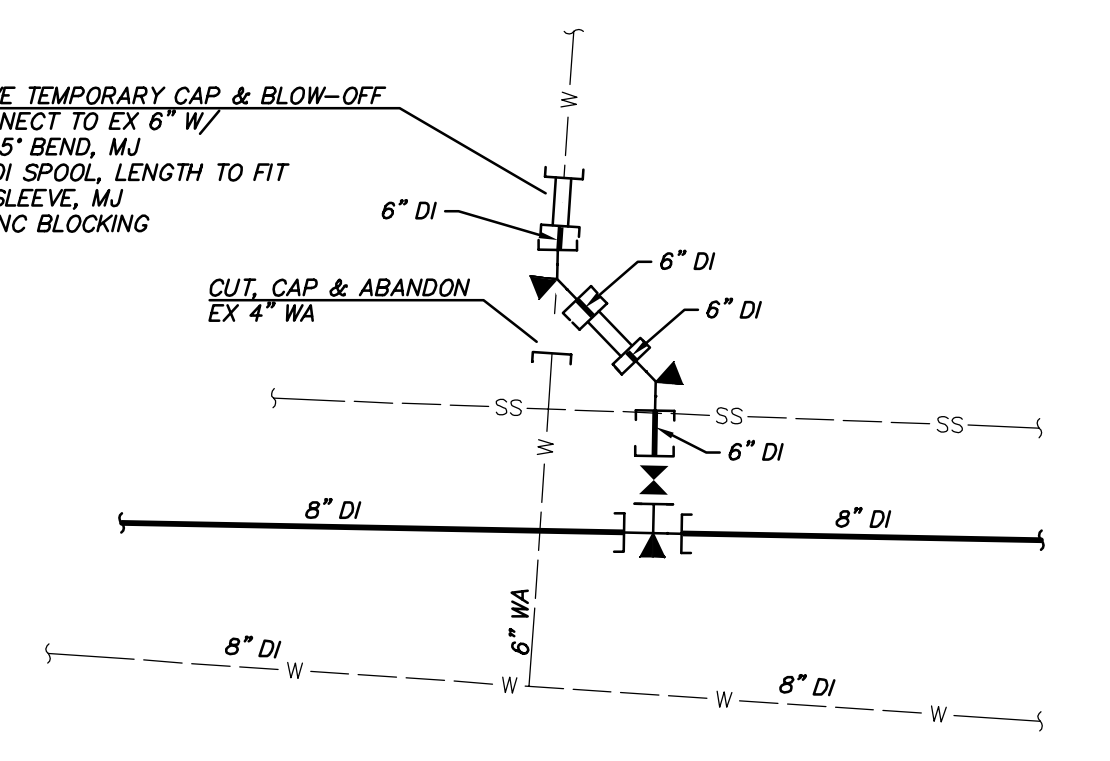
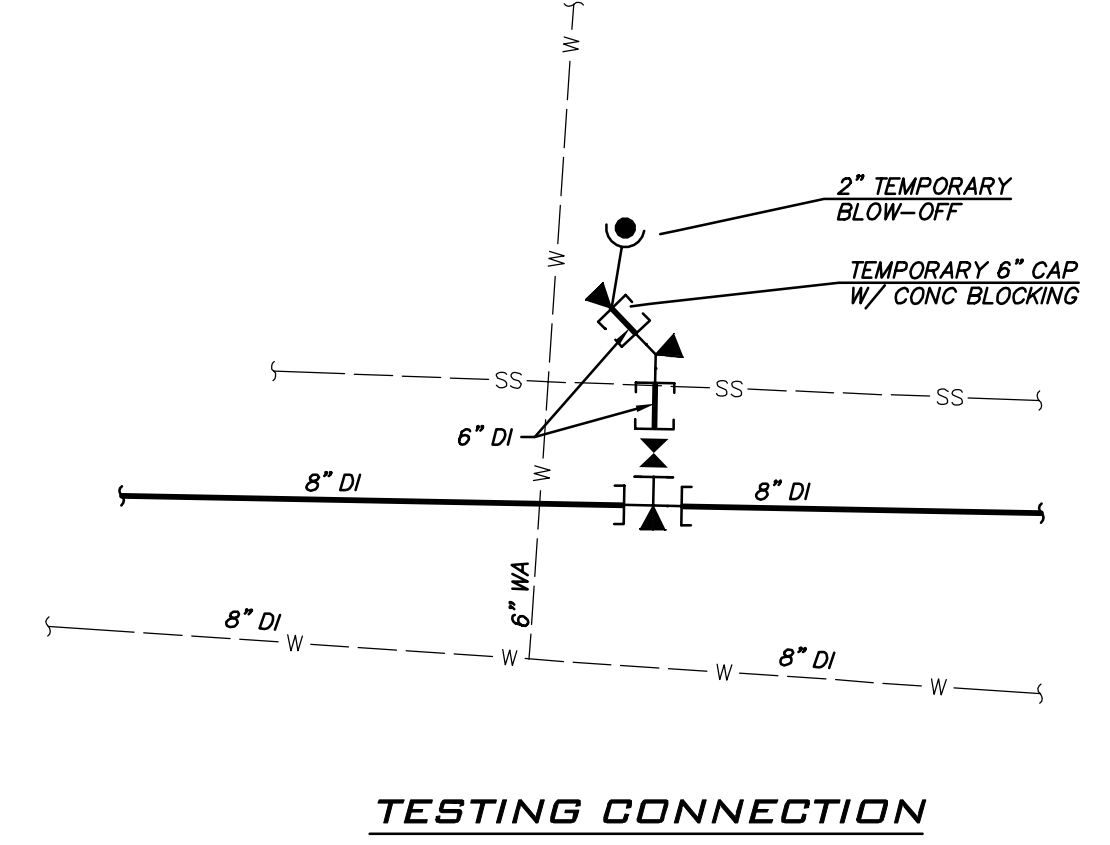
SEE SHEET WA-04

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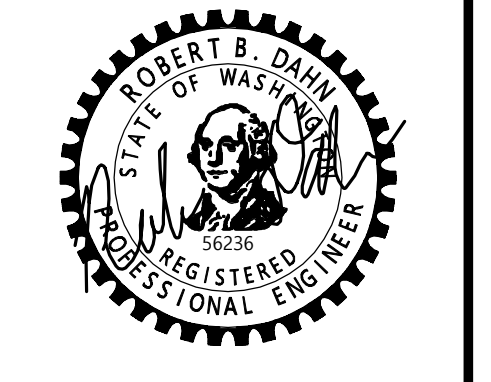


FINAL CONNECTION
CONNECTION A4
NOT TO SCALE

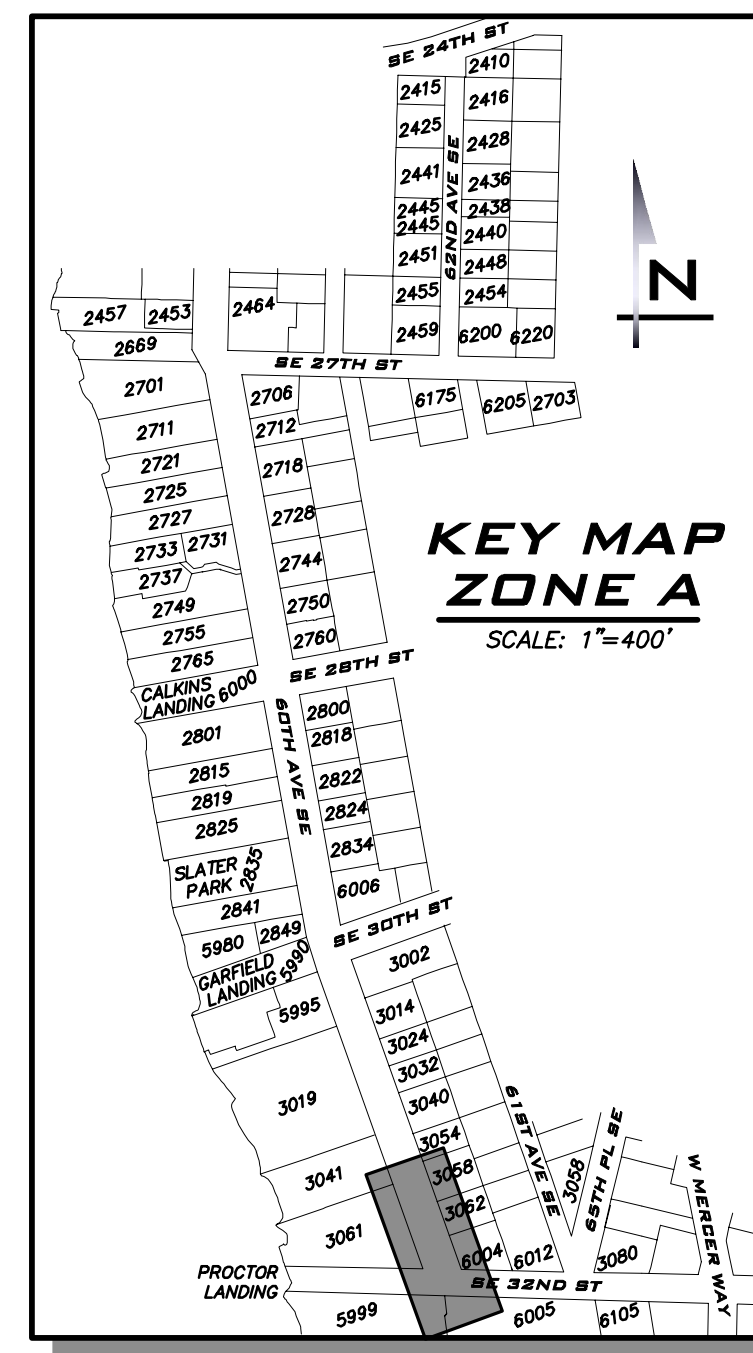
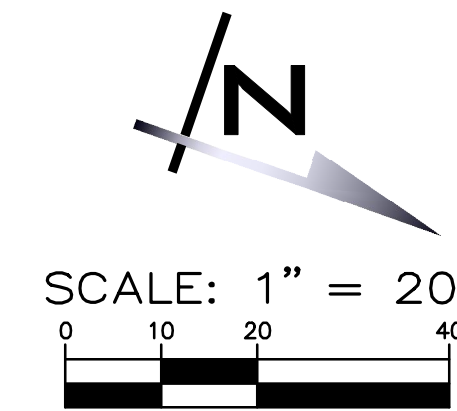
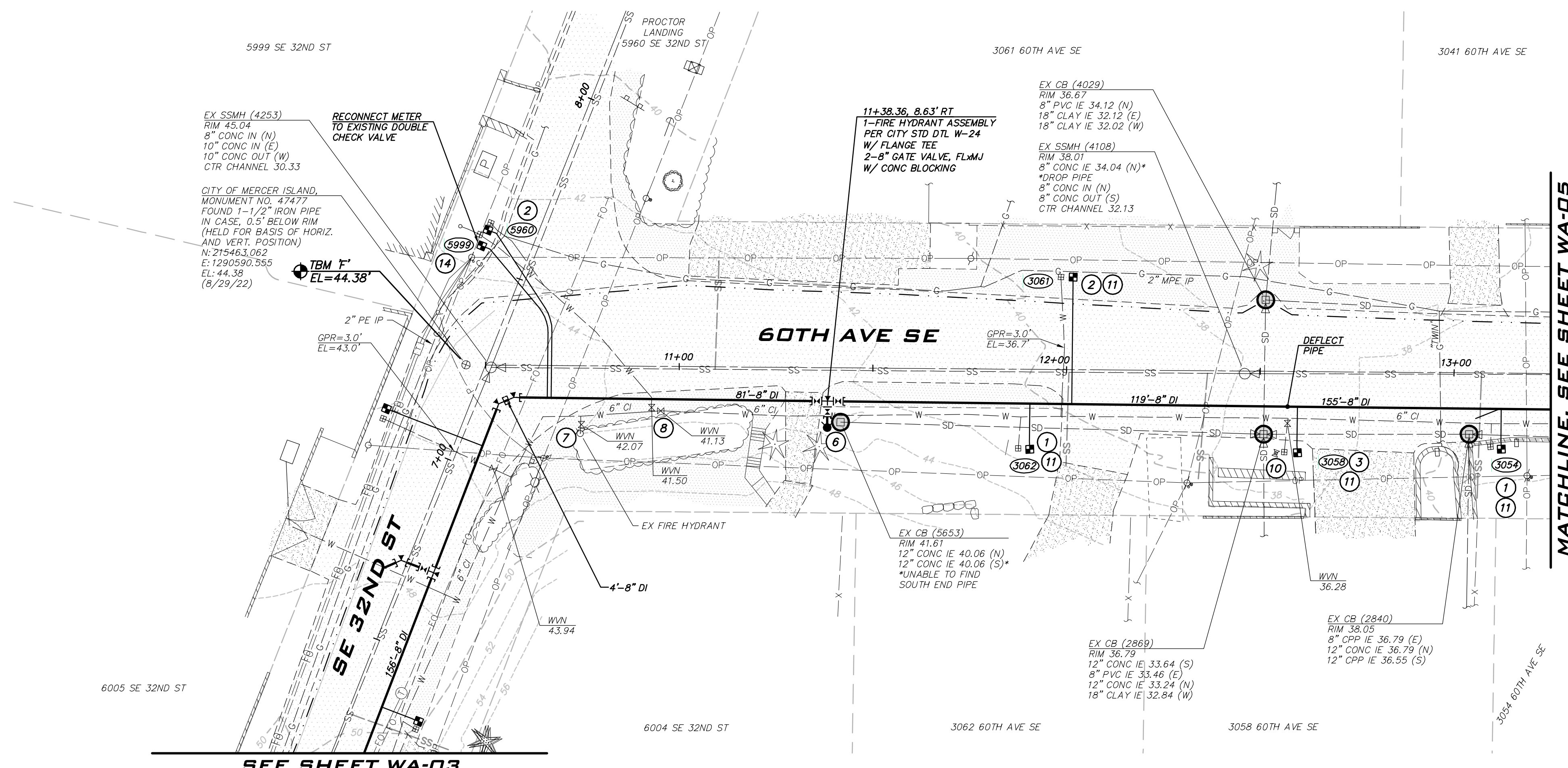
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ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
WA-03



BLUELINE

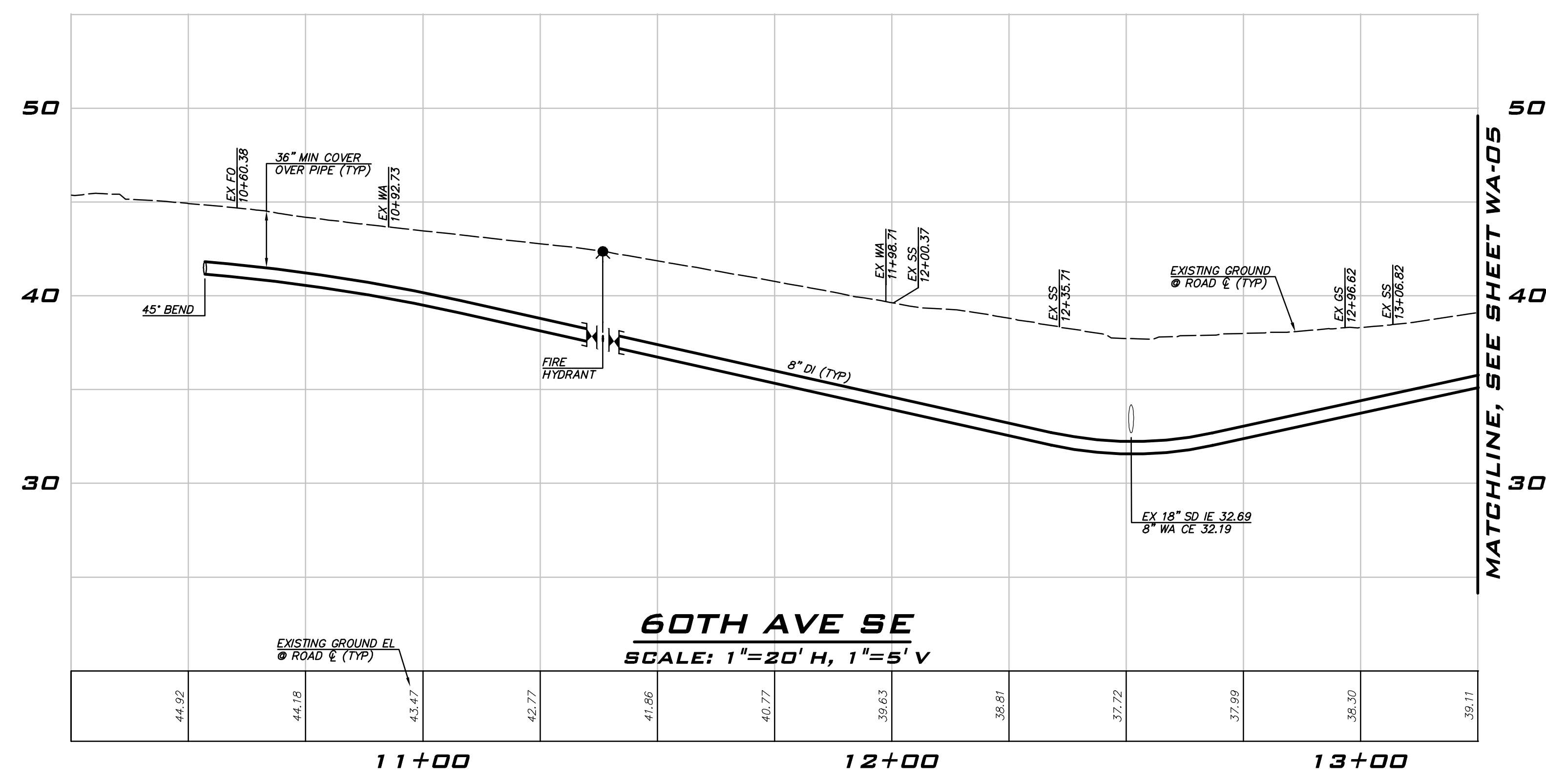
25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
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SCALE: AS NOTED
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PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

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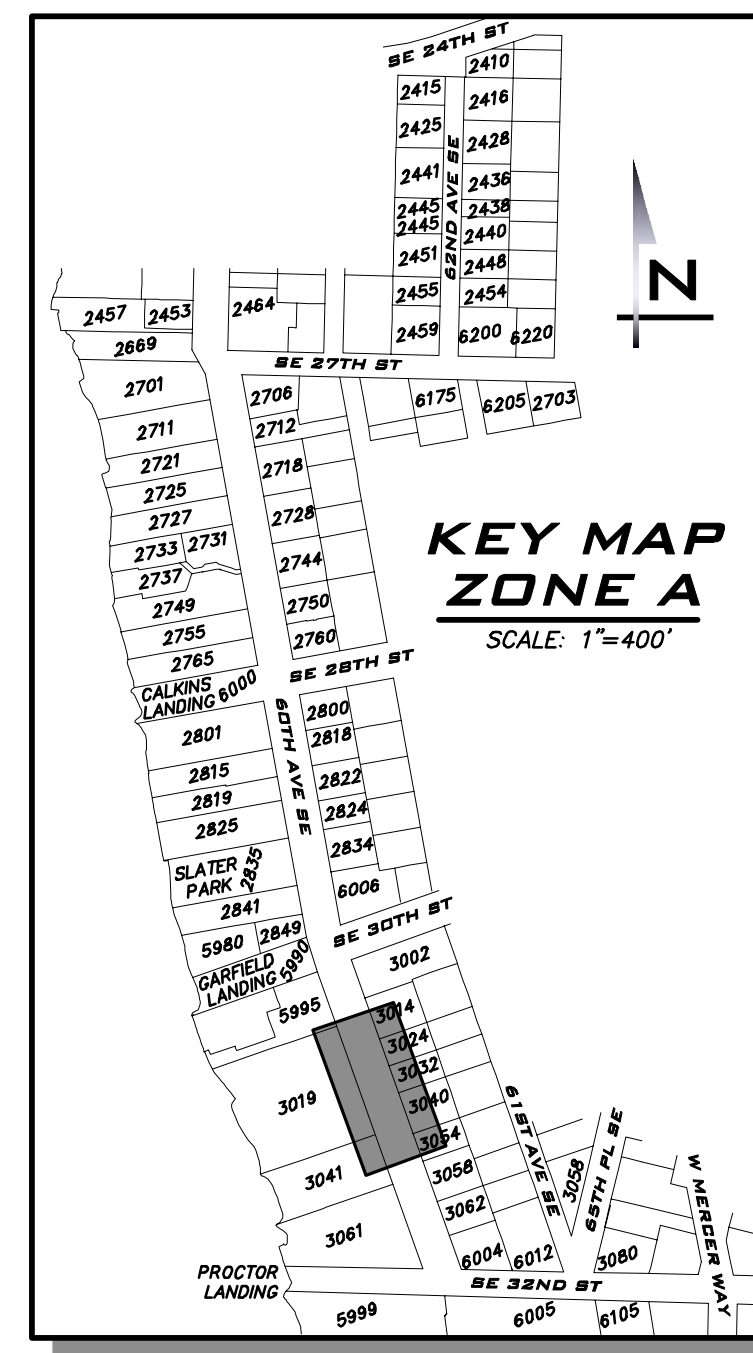
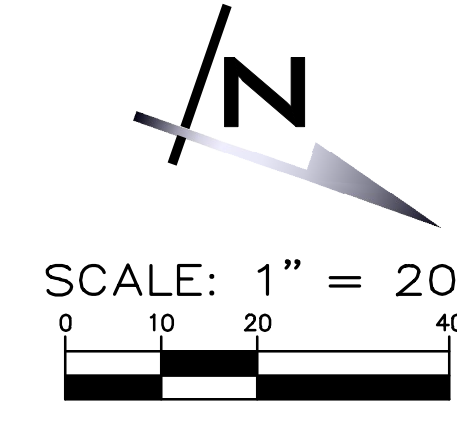
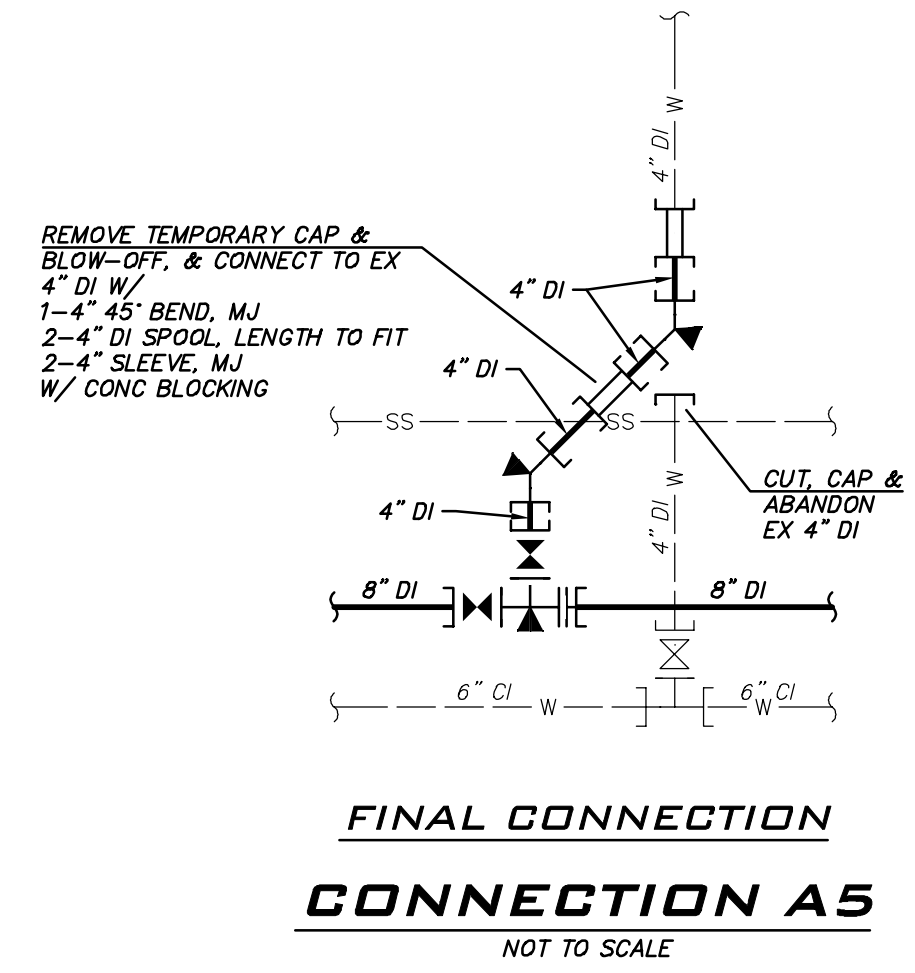
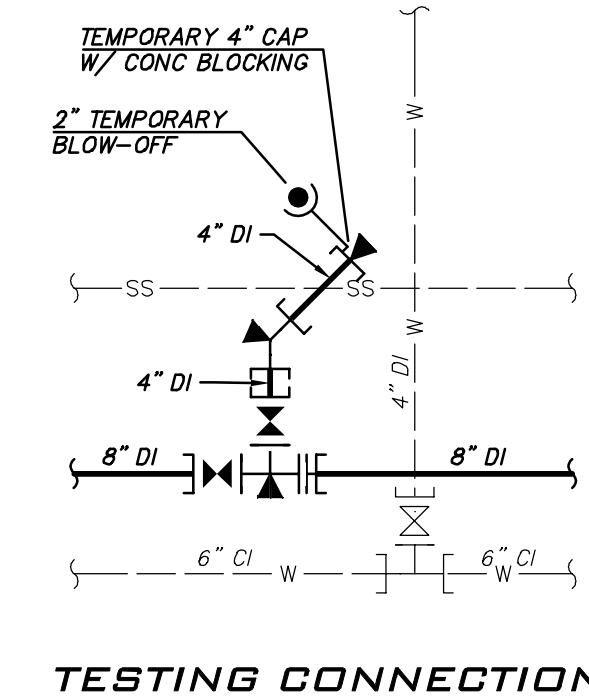
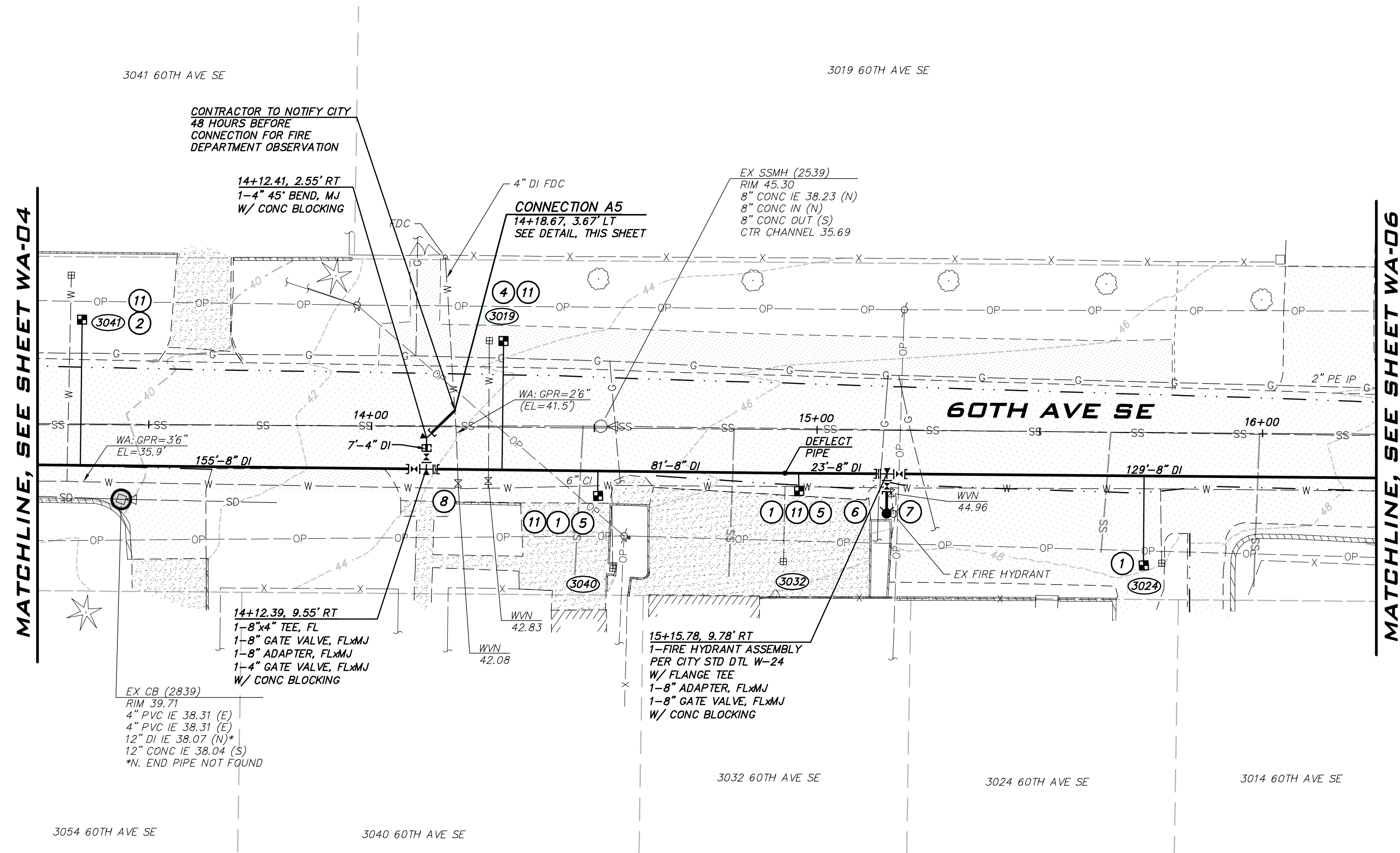


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WATER PLAN - 60TH AVE SE -
ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

6/9/23
JOB NUMBER:
22-229
SHEET NAME:
WA-04
SHT **19** OF **68**



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

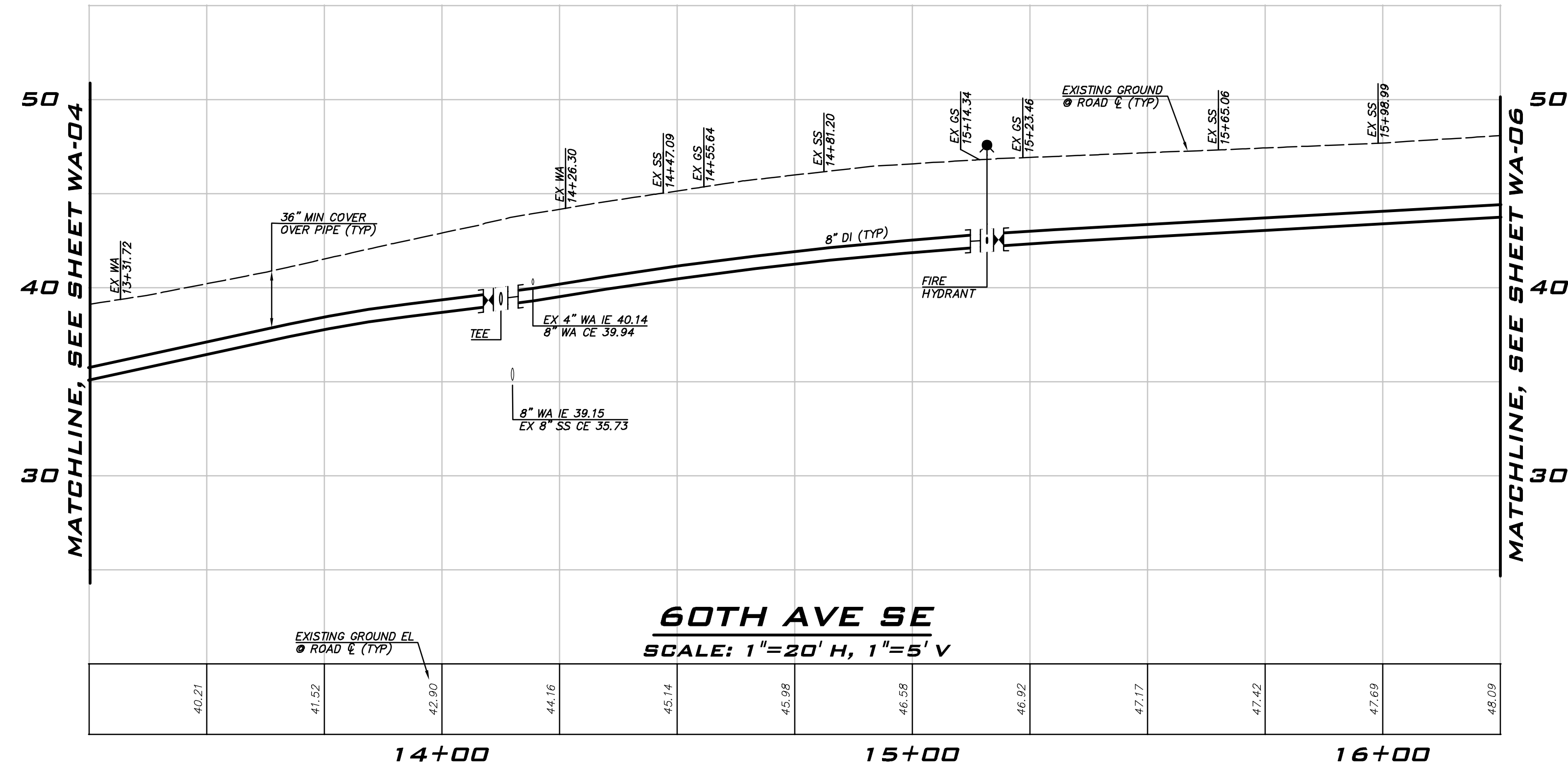
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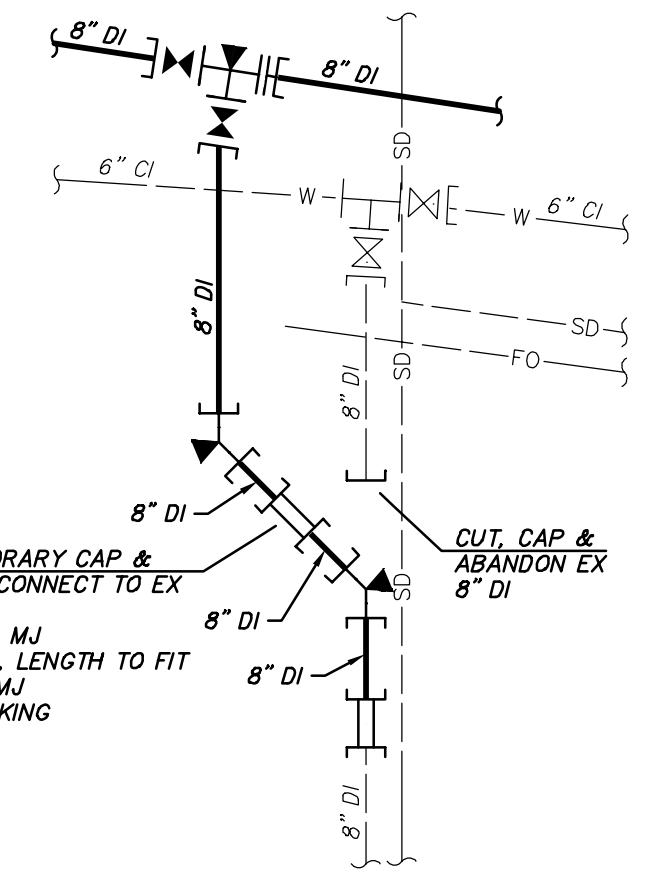
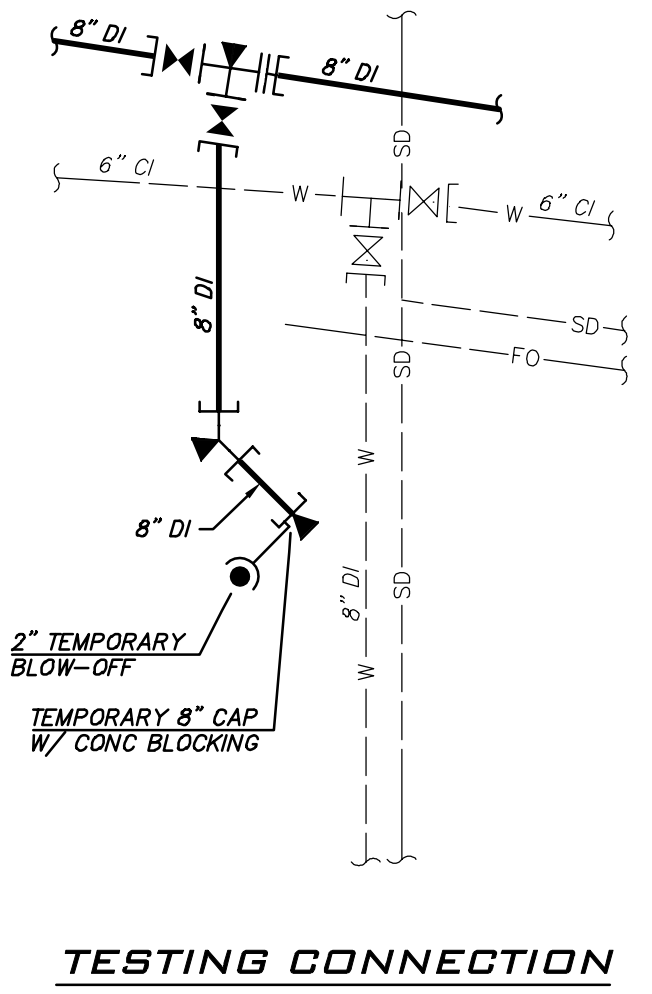
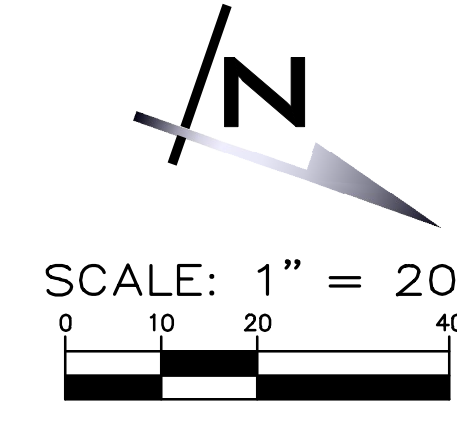
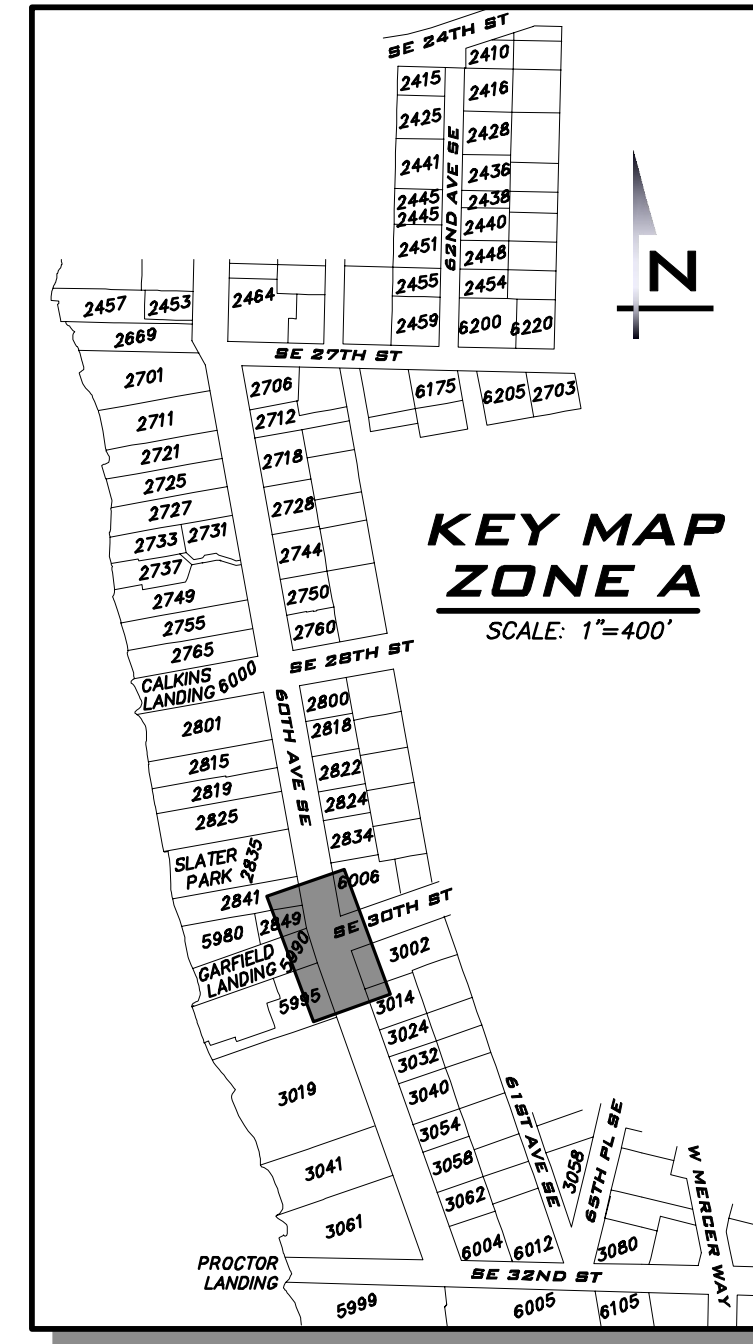
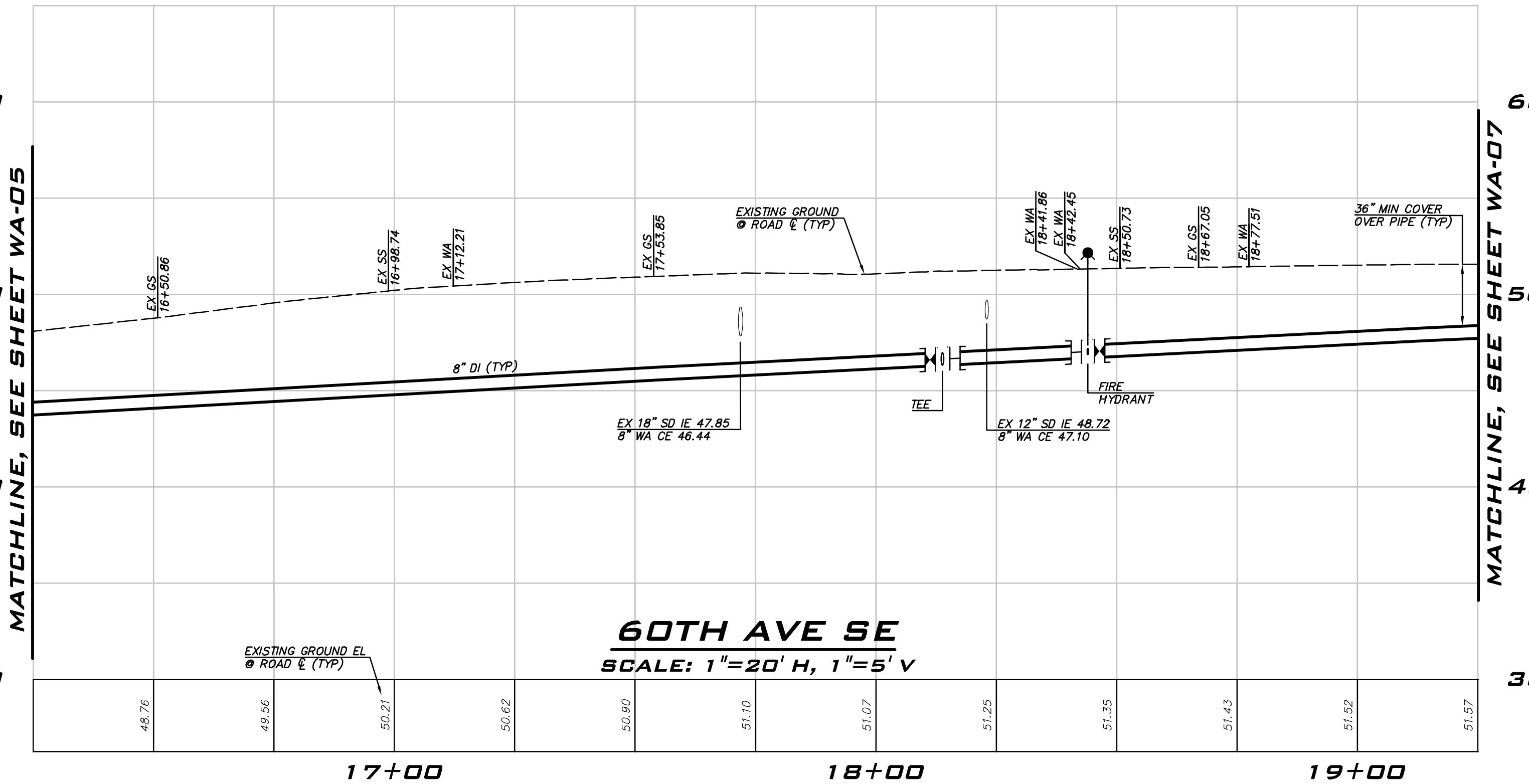
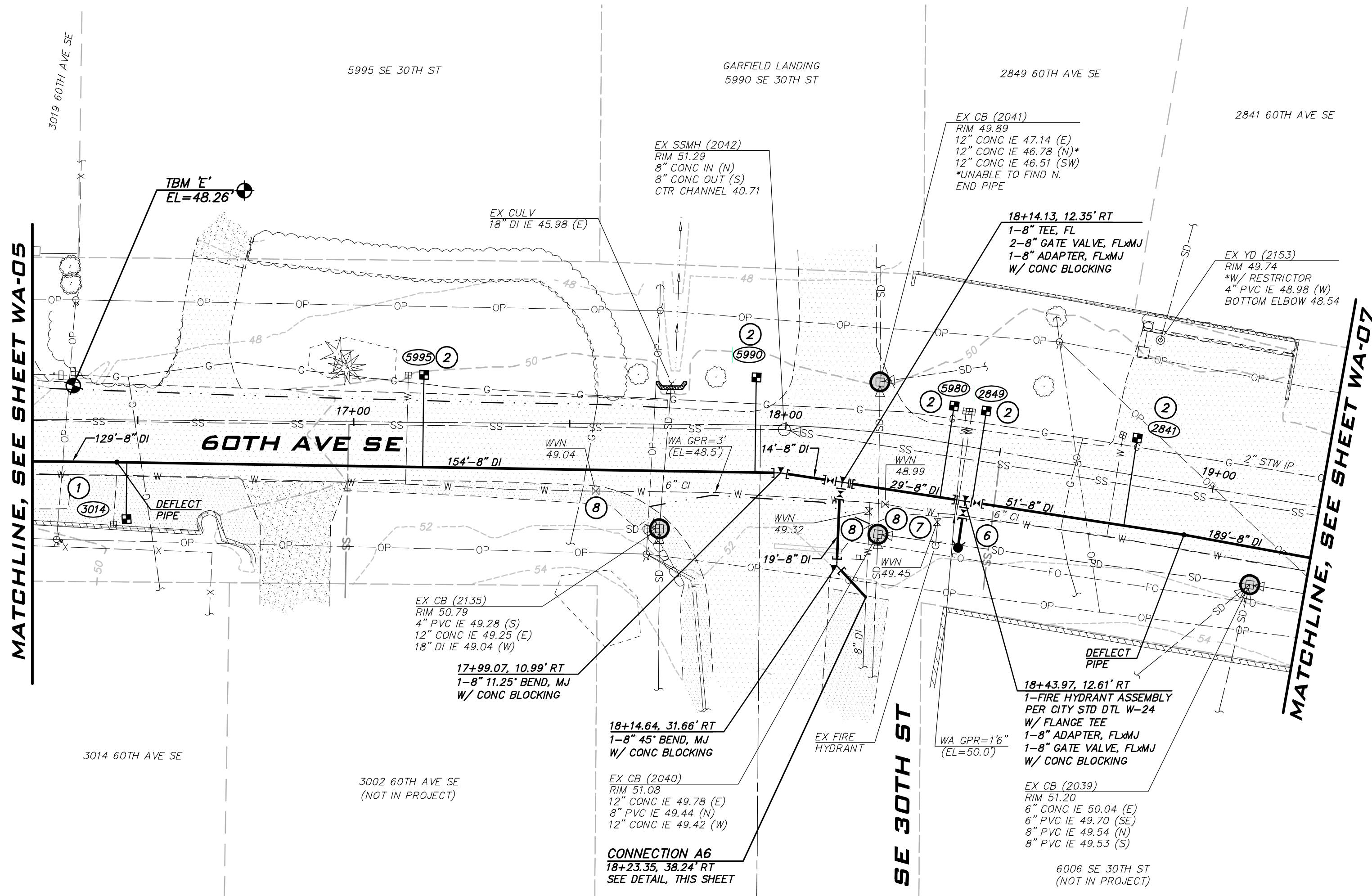
WATER PLAN - 60TH AVE SE -
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SHT **20** OF **68**



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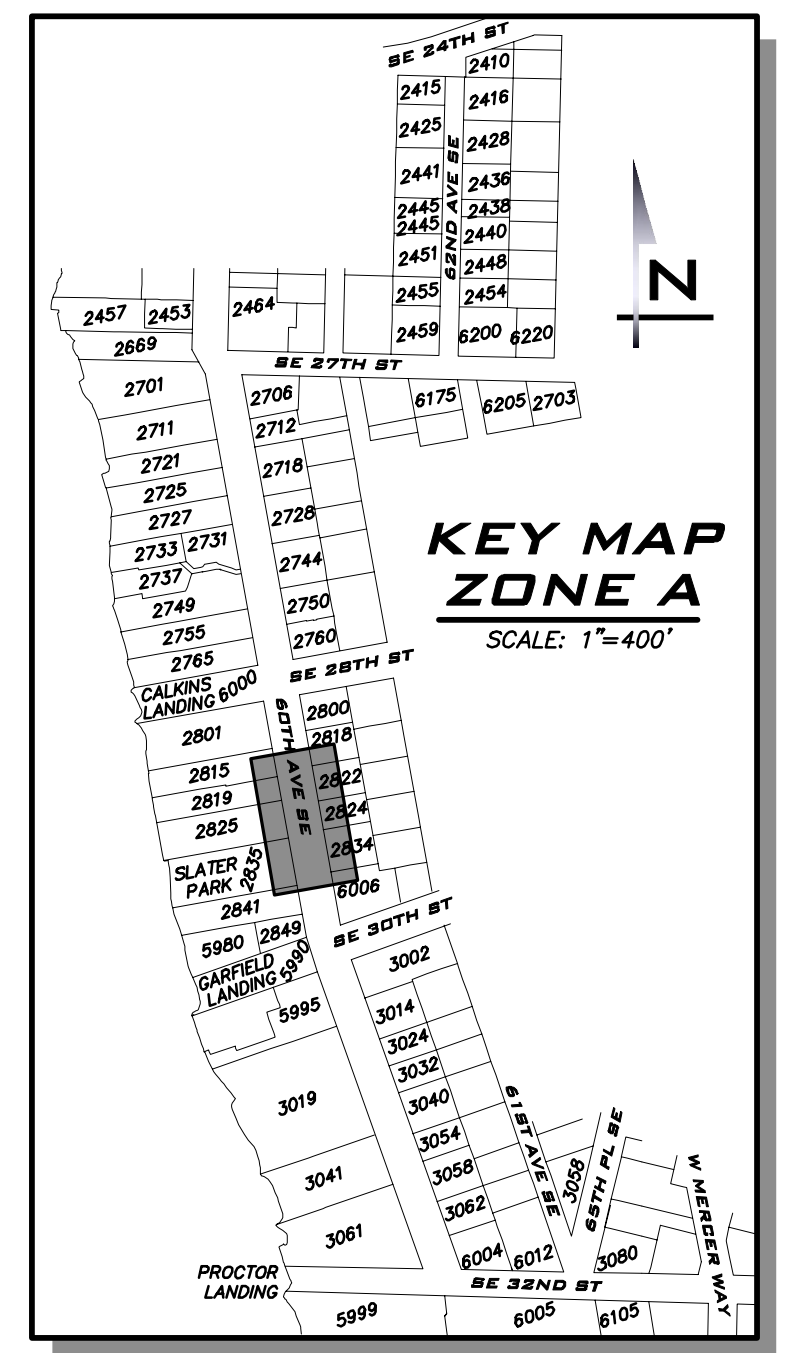
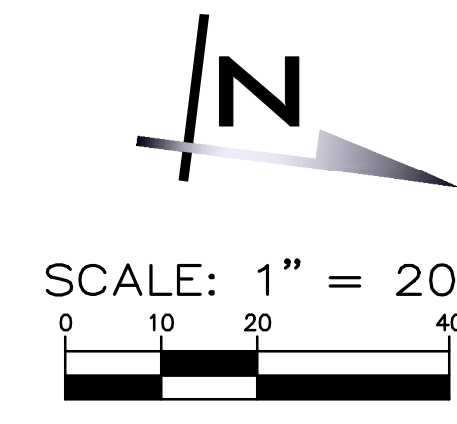
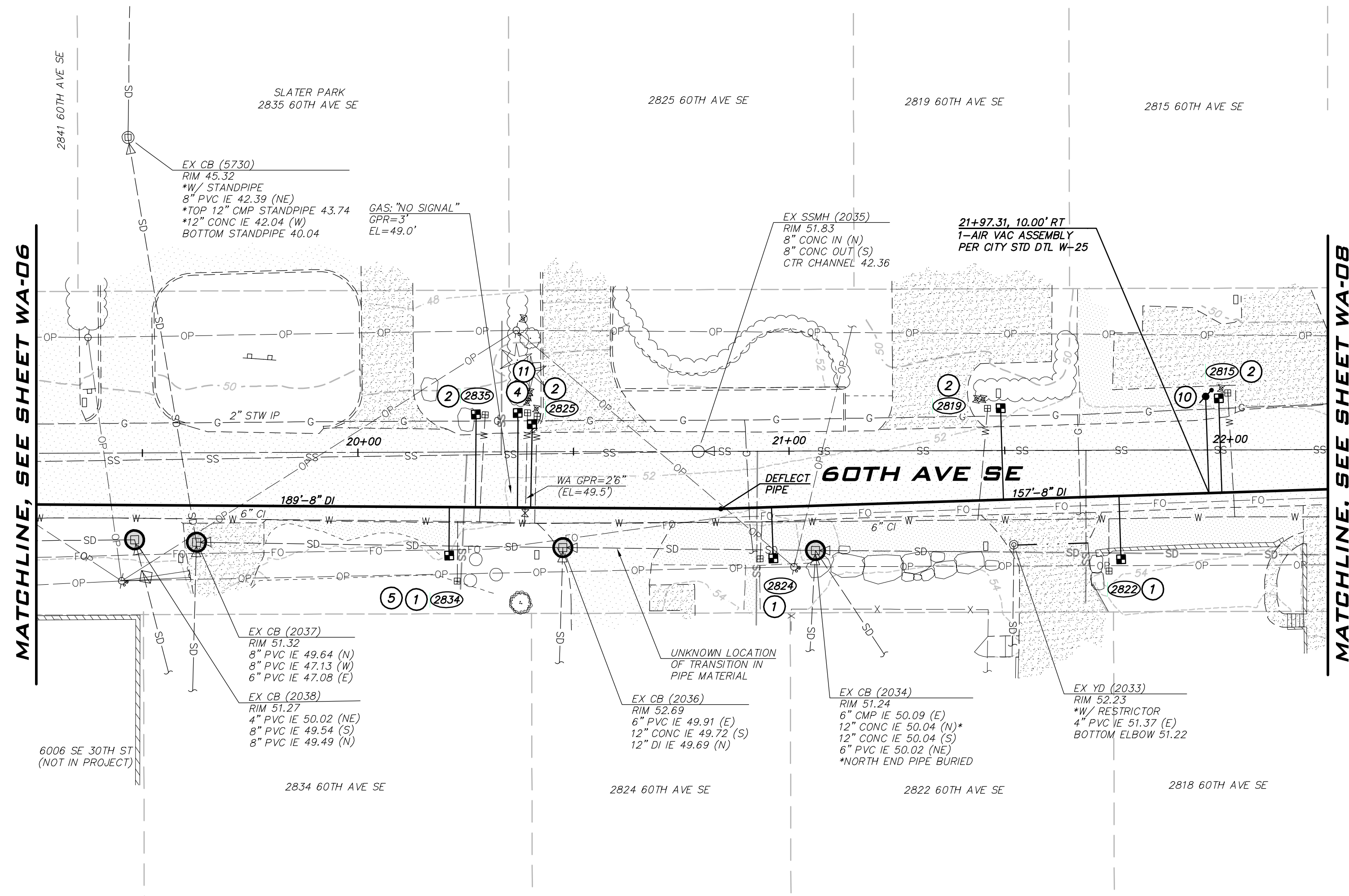
SCALE: AS NOTED
PROJECT MANAGER: ROB DAHN, PE
PROJECT ENGINEER: GRACE GARWIN, EIT
DESIGNER: CAROL DOGGETT
ISSUE DATE: 6/9/2023

NO	DATE	BY	REVISIONS

WATER PLAN - 60TH AVE SE -
ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER: 22-229
SHEET NAME: WA-06

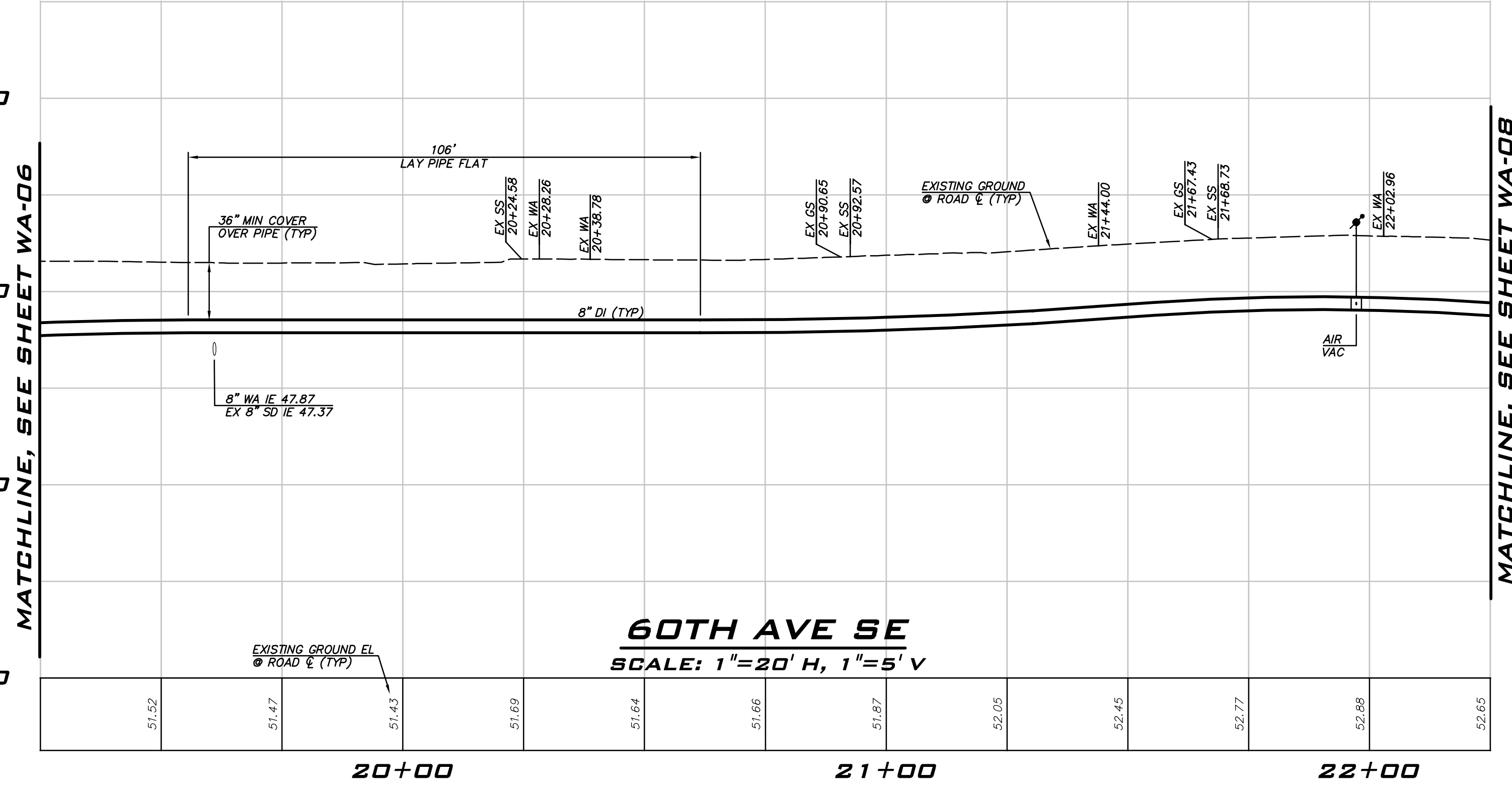


SCALE: AS NOTED
 PROJECT MANAGER: ROB DAHN, PE
 PROJECT ENGINEER: GRACE GARWIN, EIT
 DESIGNER: CAROL DOGGETT
 ISSUE DATE: 6/9/2023

NO	DATE	BY	REVISIONS

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 - MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
 - COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 - LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

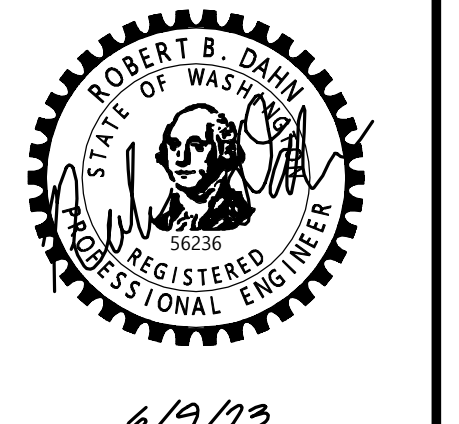
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- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10)
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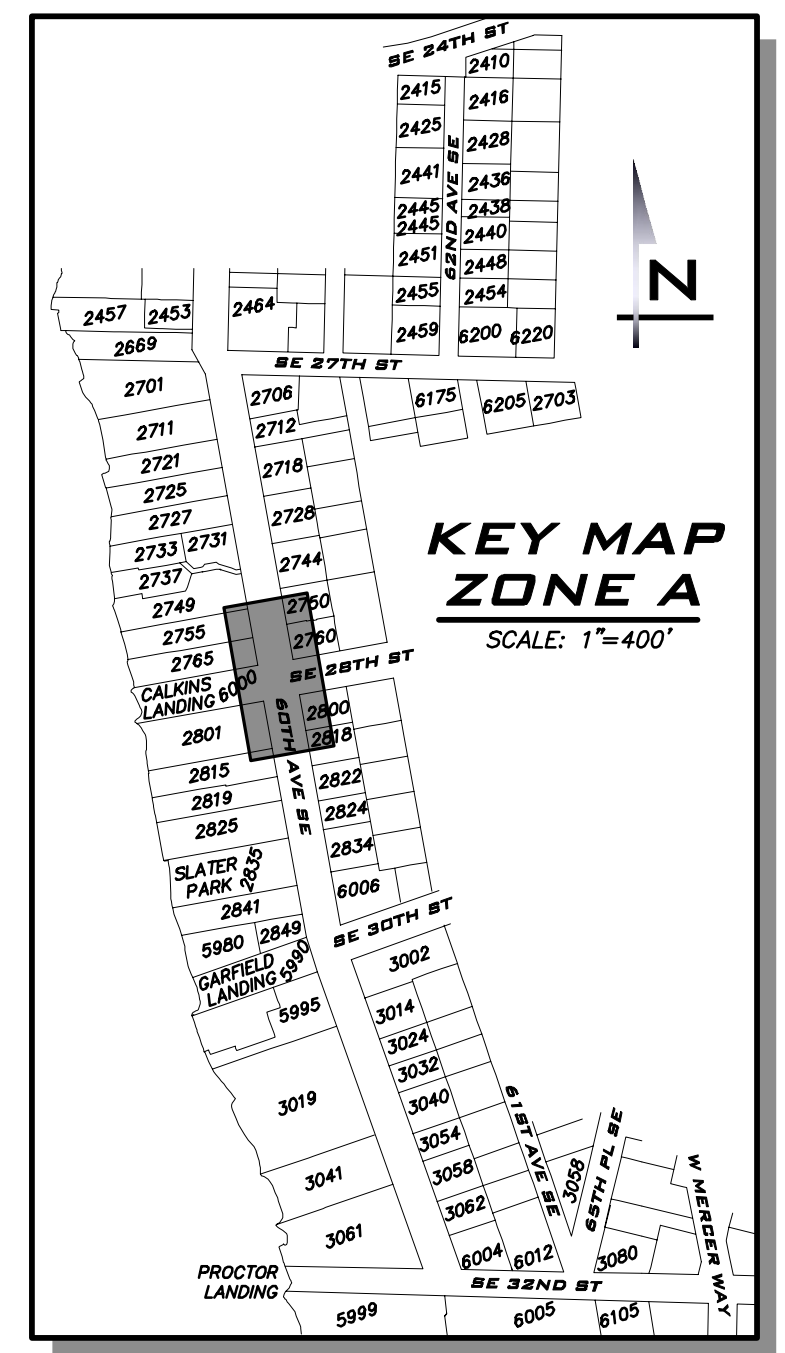
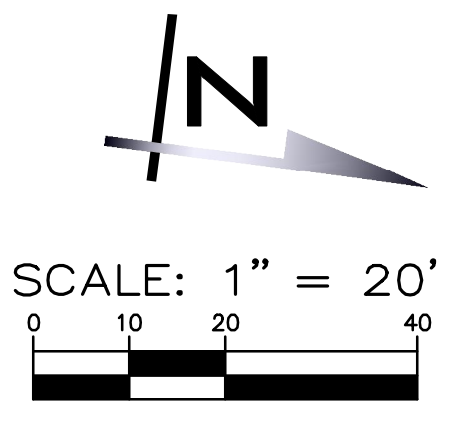
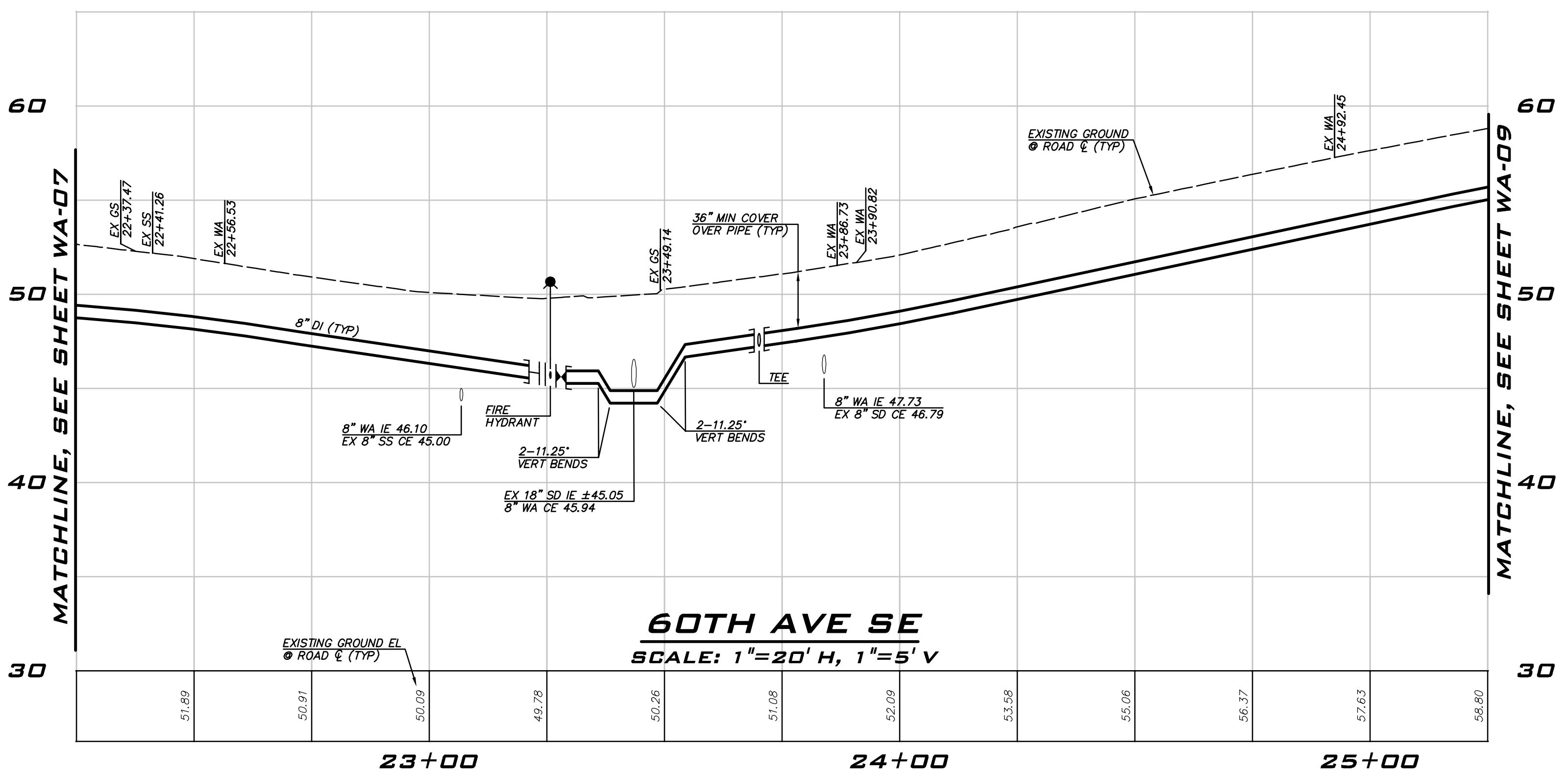
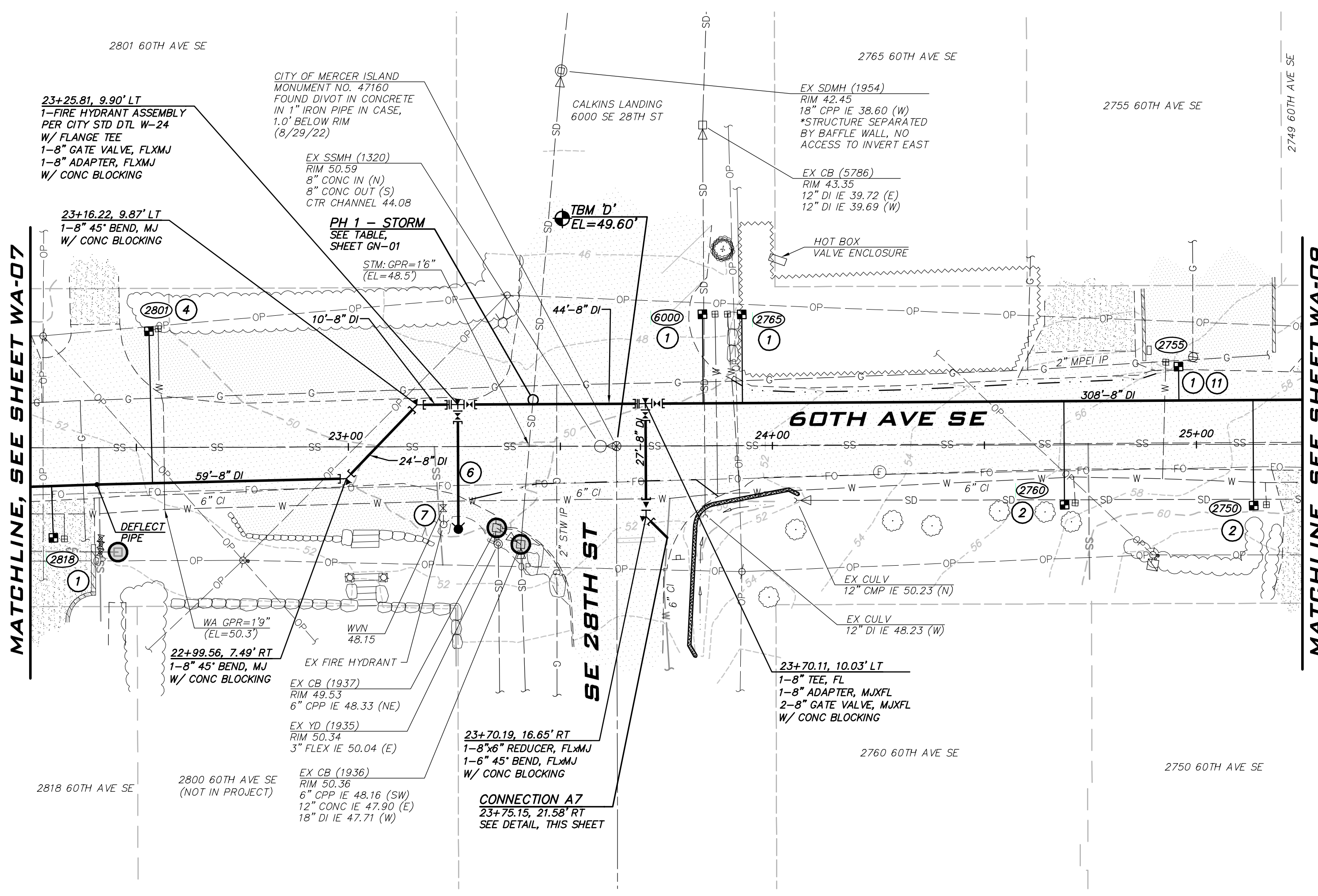
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WATER PLAN - 60TH AVE SE - ZONE A
 2023 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERGER ISLAND WASHINGTON



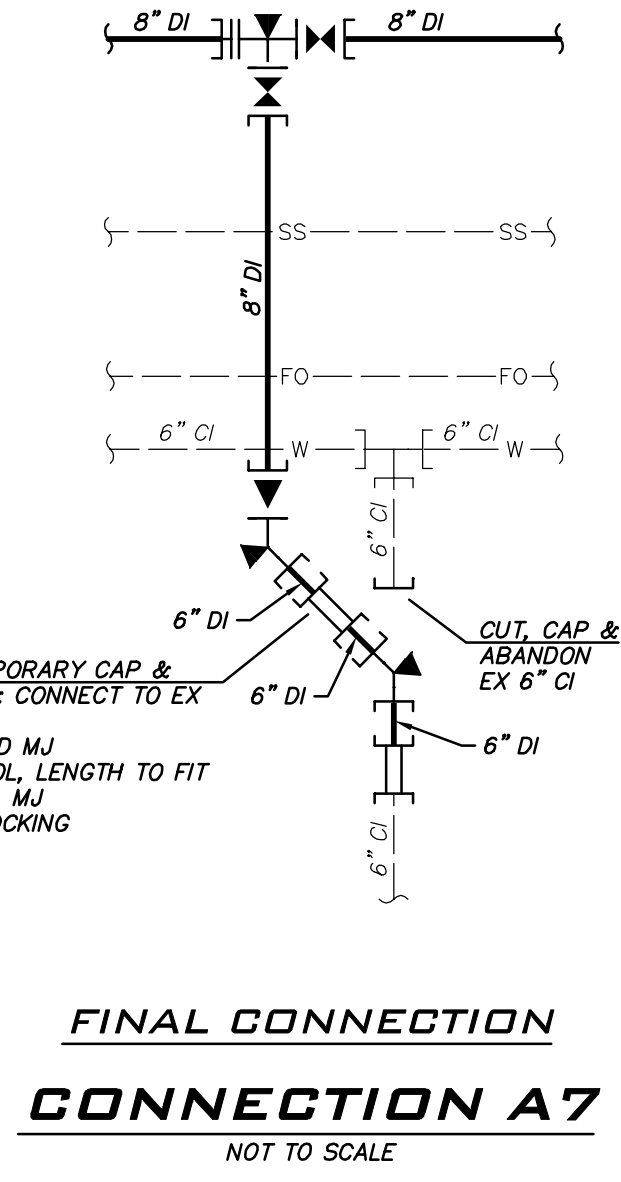
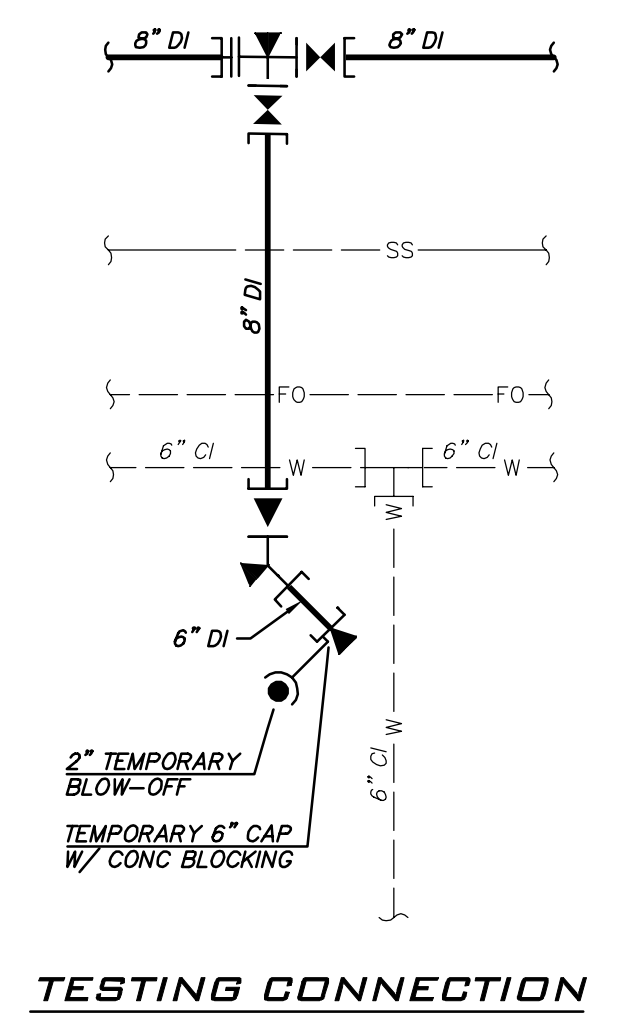
6/9/23
 JOB NUMBER: 22-229
 SHEET NAME: WA-07
 SHT 22 OF 68



BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P: 425.216.4051 F: 425.216.4052
 WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED
 PROJECT MANAGER:
 ROB DAHN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 6/9/2023

NO	DATE	BY	REVISIONS



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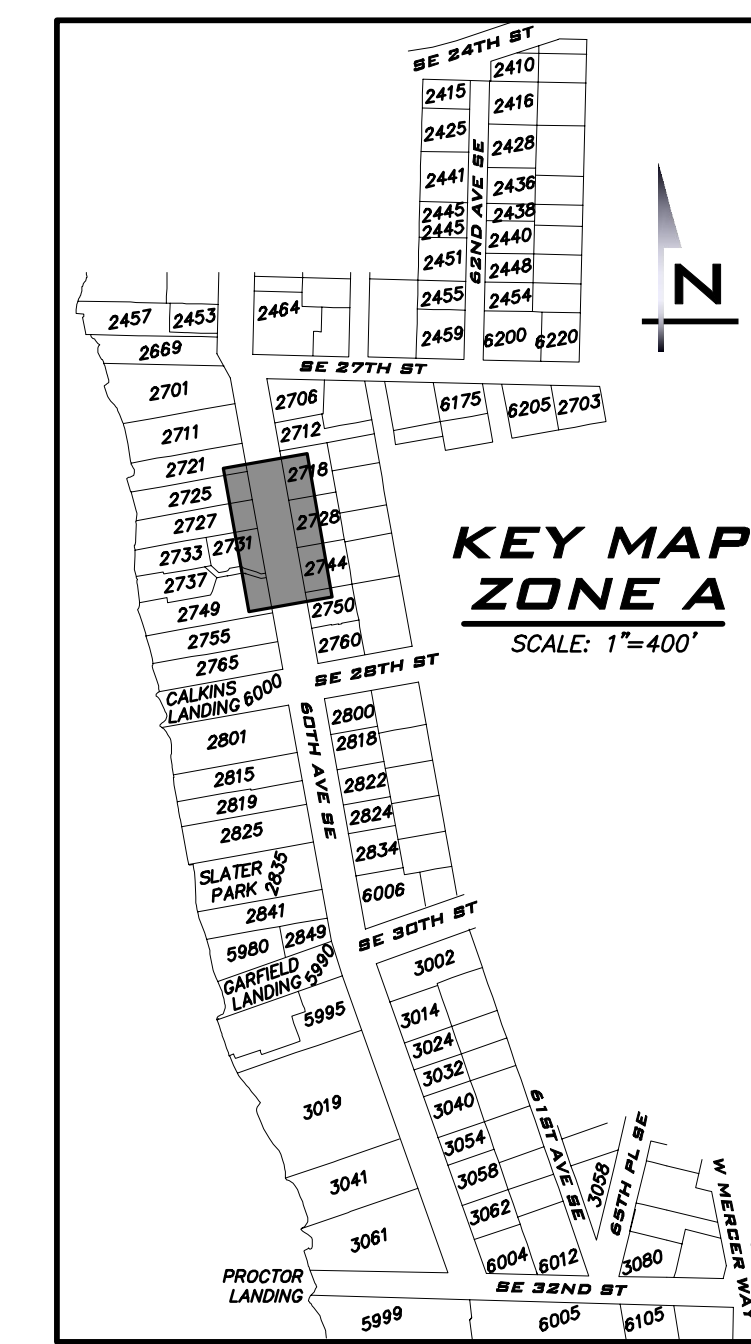
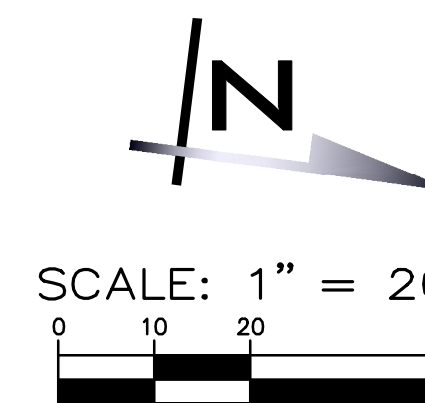
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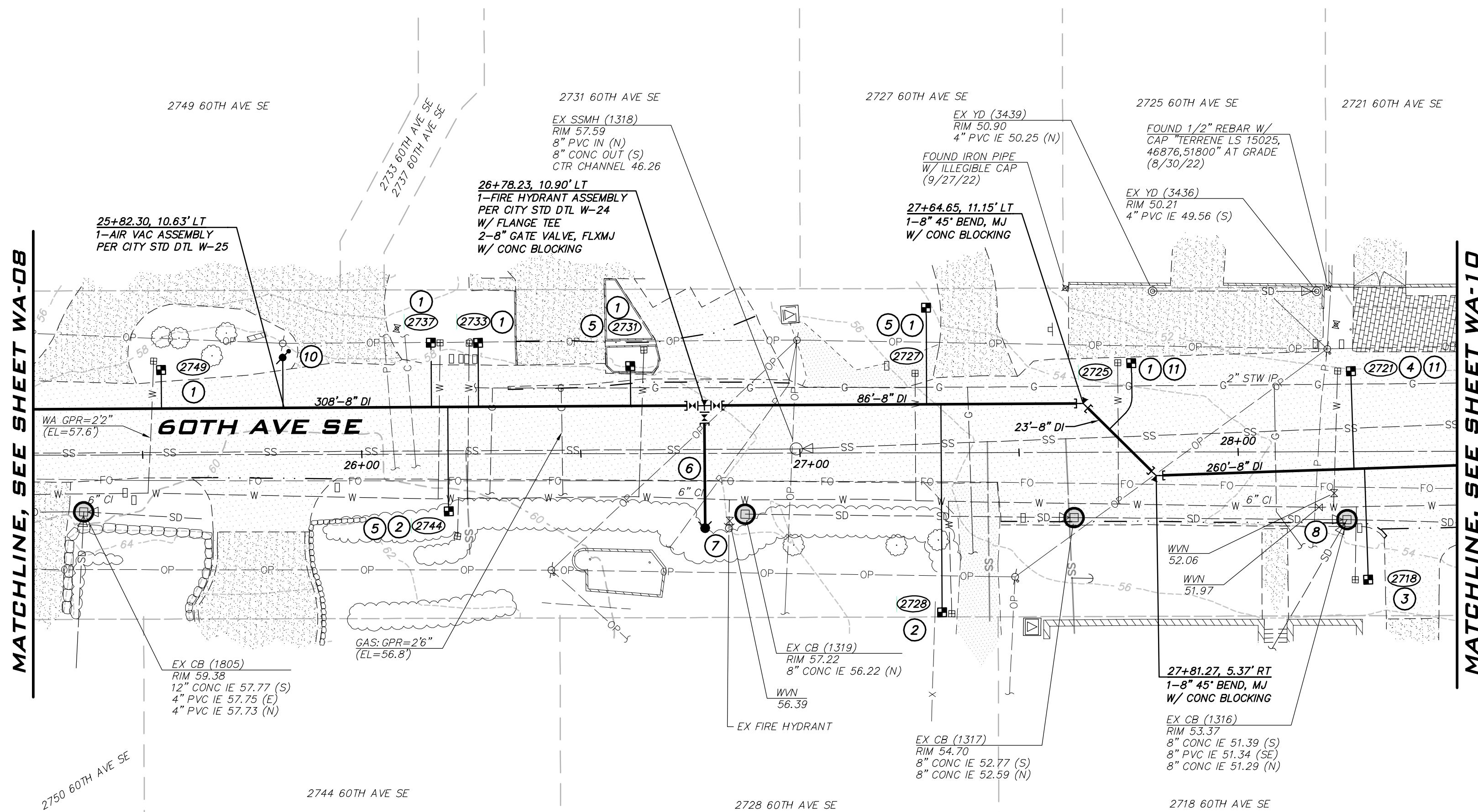
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WATER PLAN - 60TH AVE SE - ZONE A
 2023 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

6/9/23
 JOB NUMBER:
22-229
 SHEET NAME:
WA-08
 SHT **23** OF **68**



SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023



CONSTRUCTION NOTES

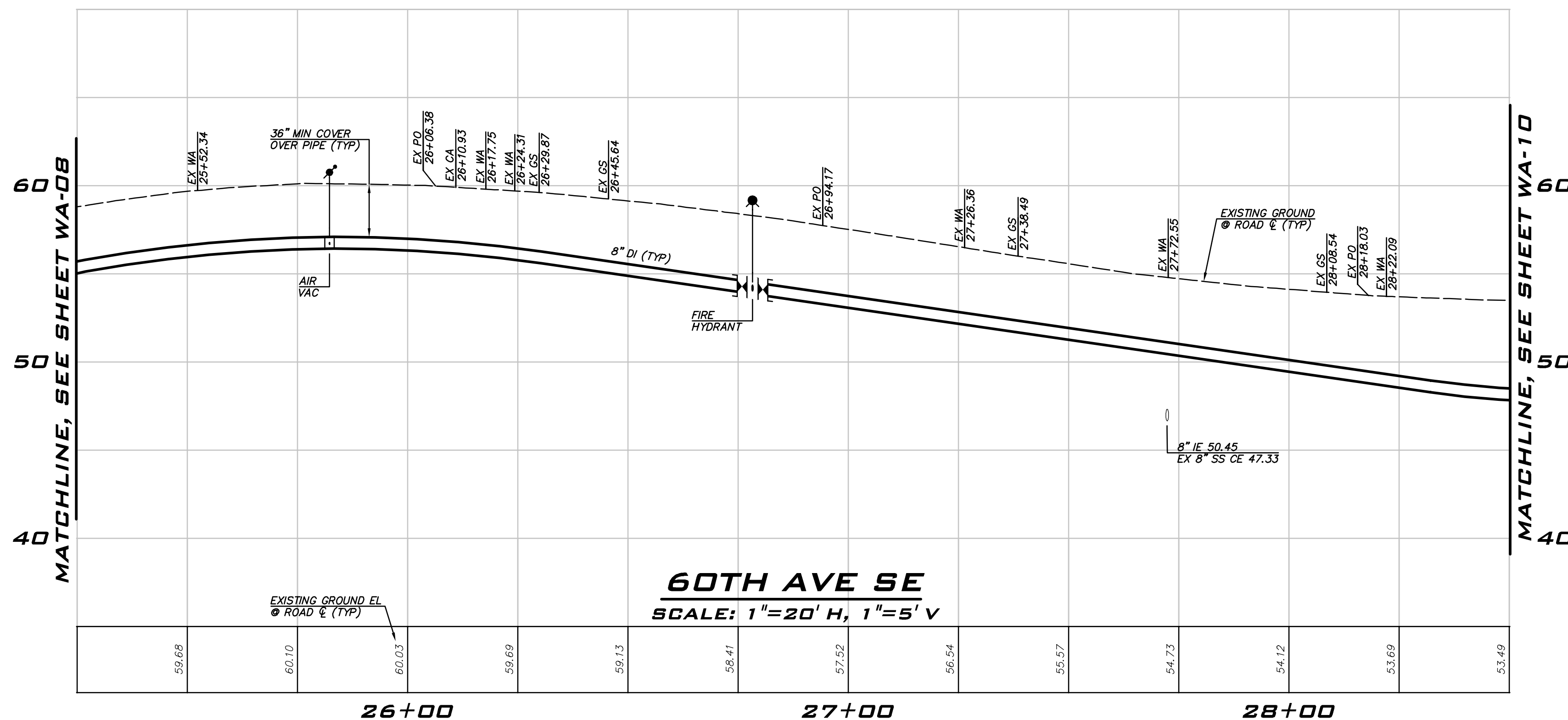
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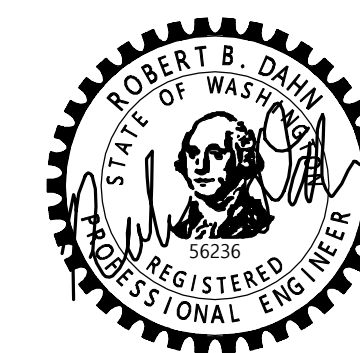
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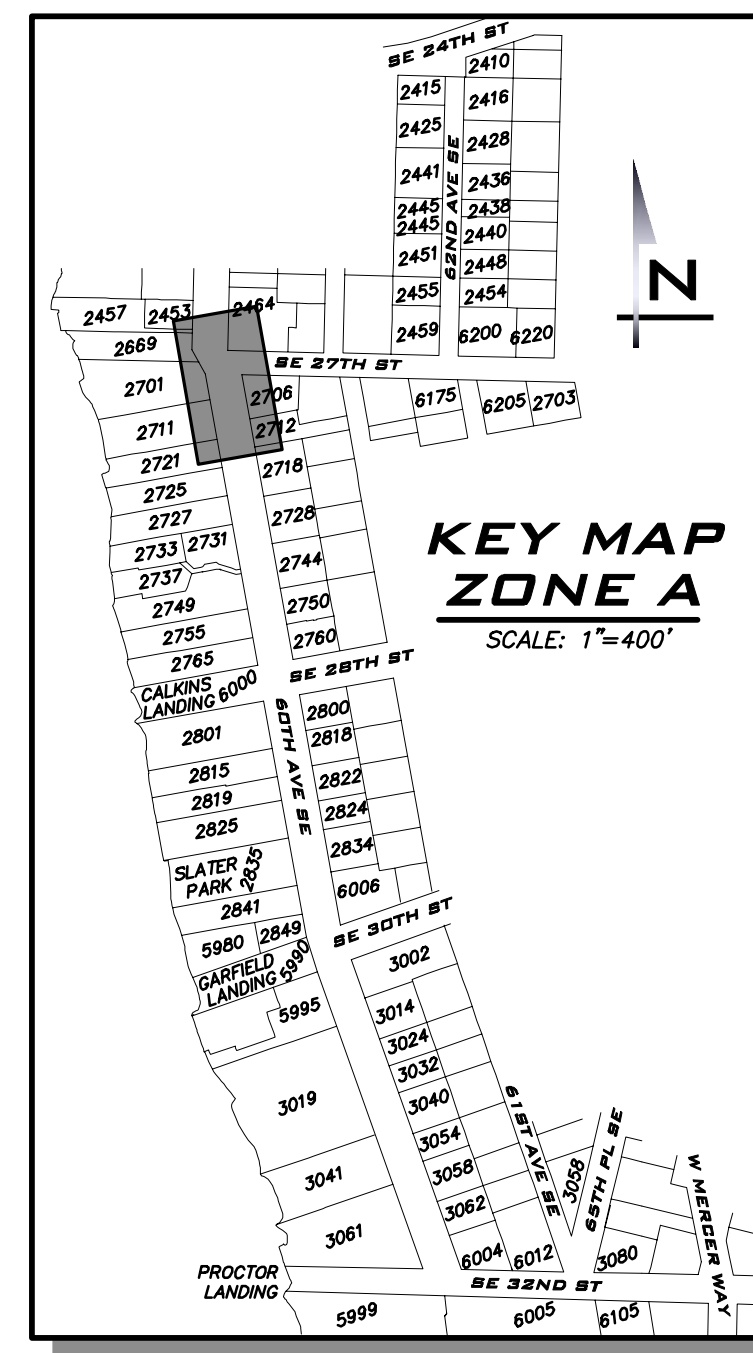
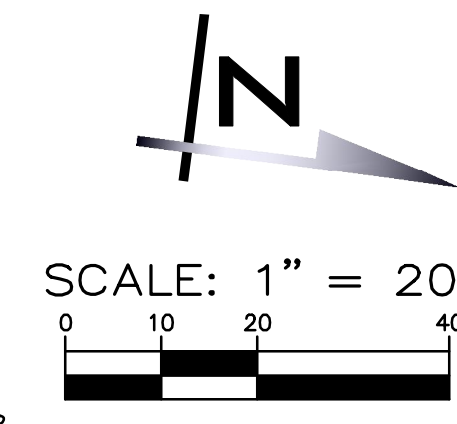
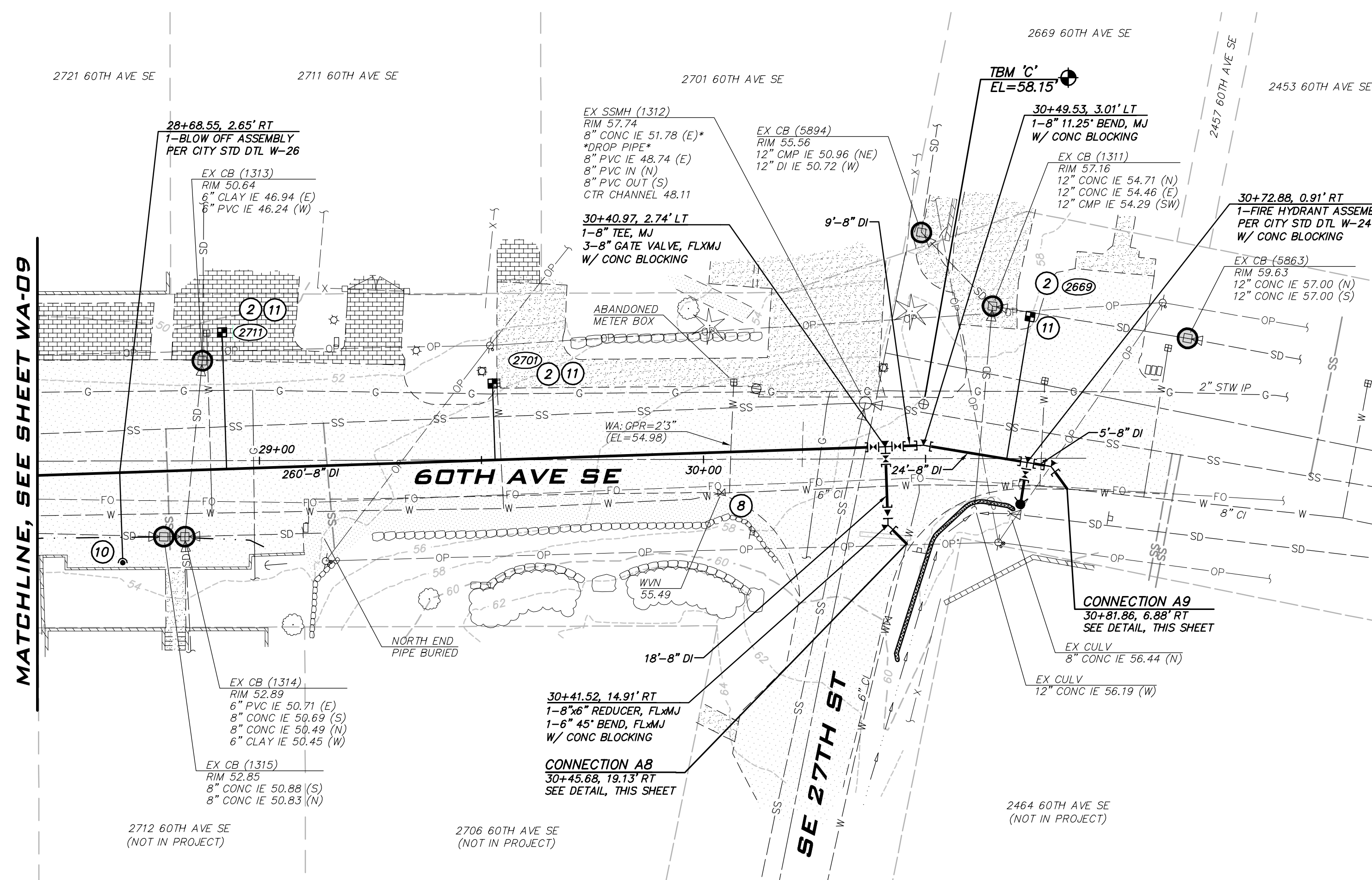
60TH AVE SE
SCALE: 1"=20' H, 1"=5' V

NO	DATE	BY	REVISIONS

WATER PLAN - 60TH AVE SE -
 ZONE A
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



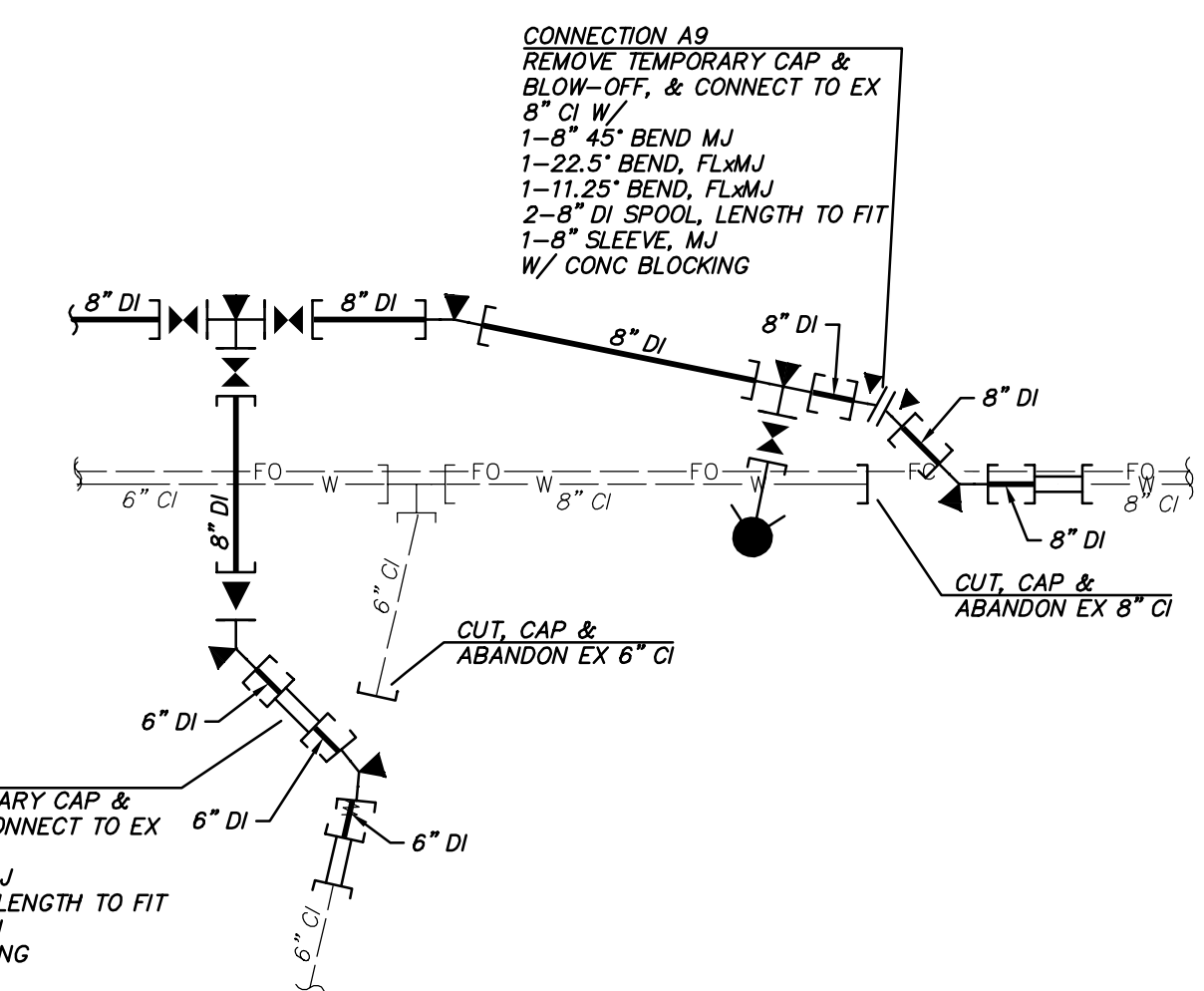
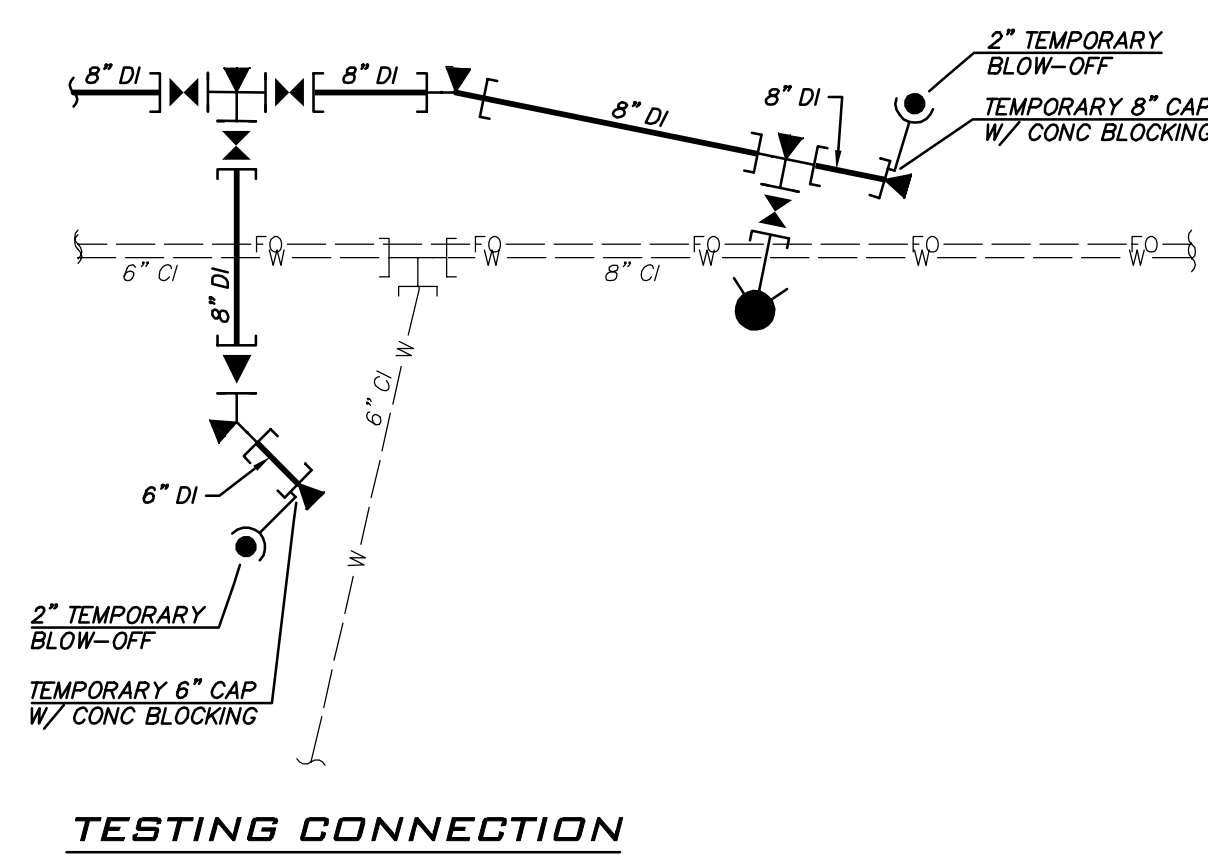
6/9/23
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BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
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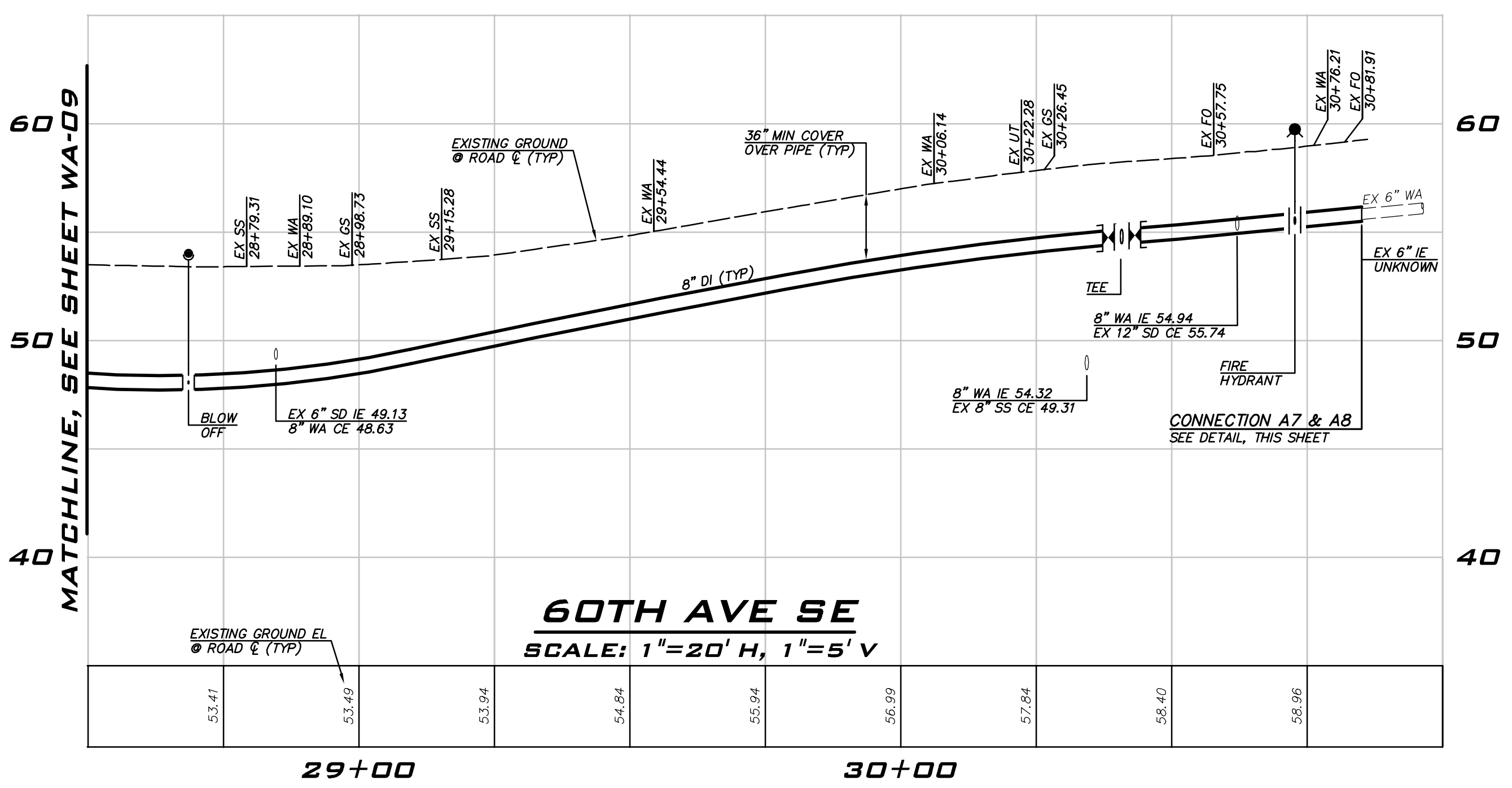
SCALE: AS NOTED
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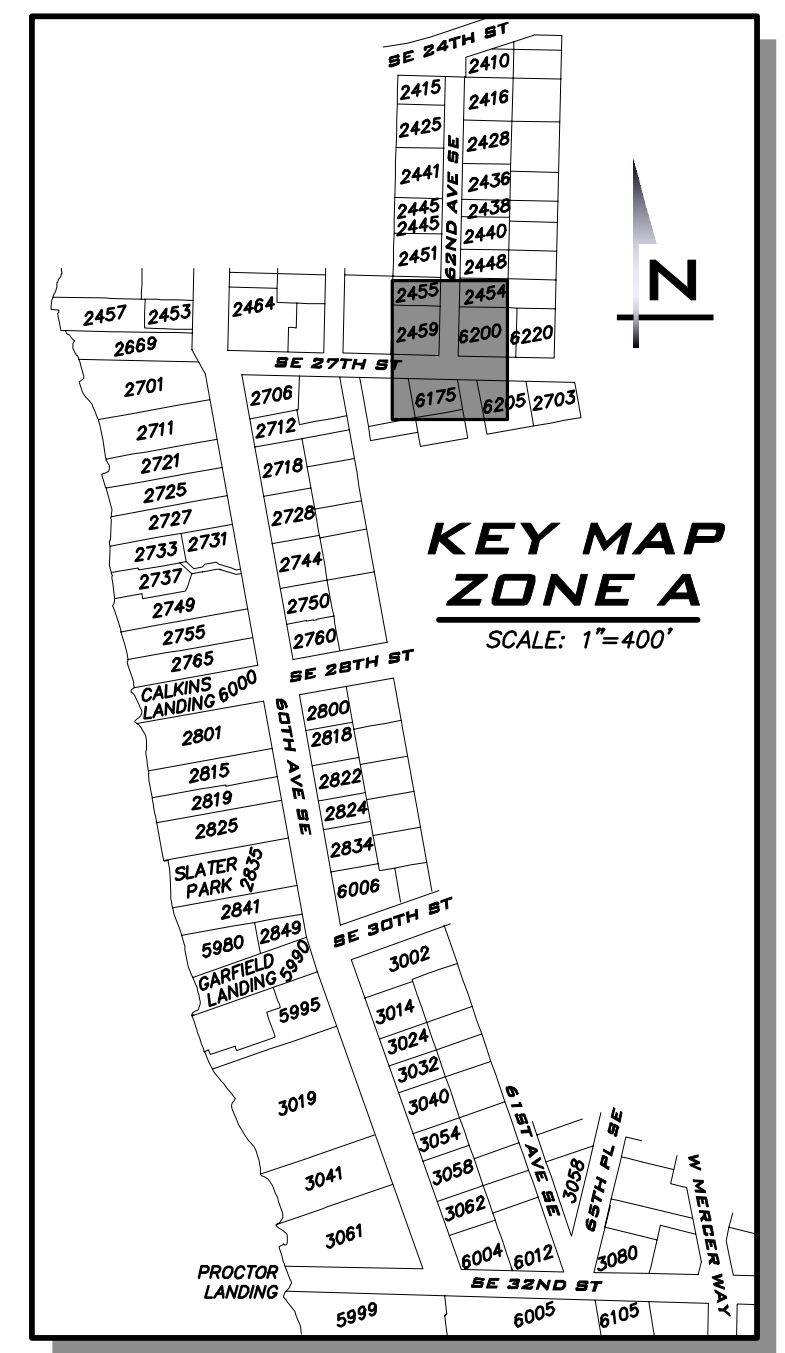
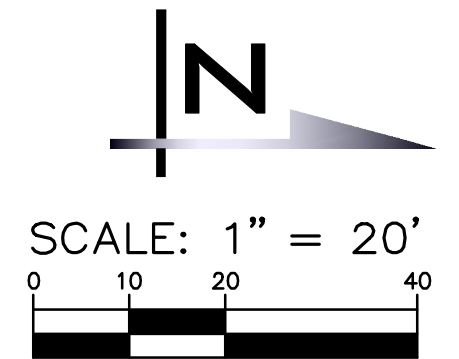
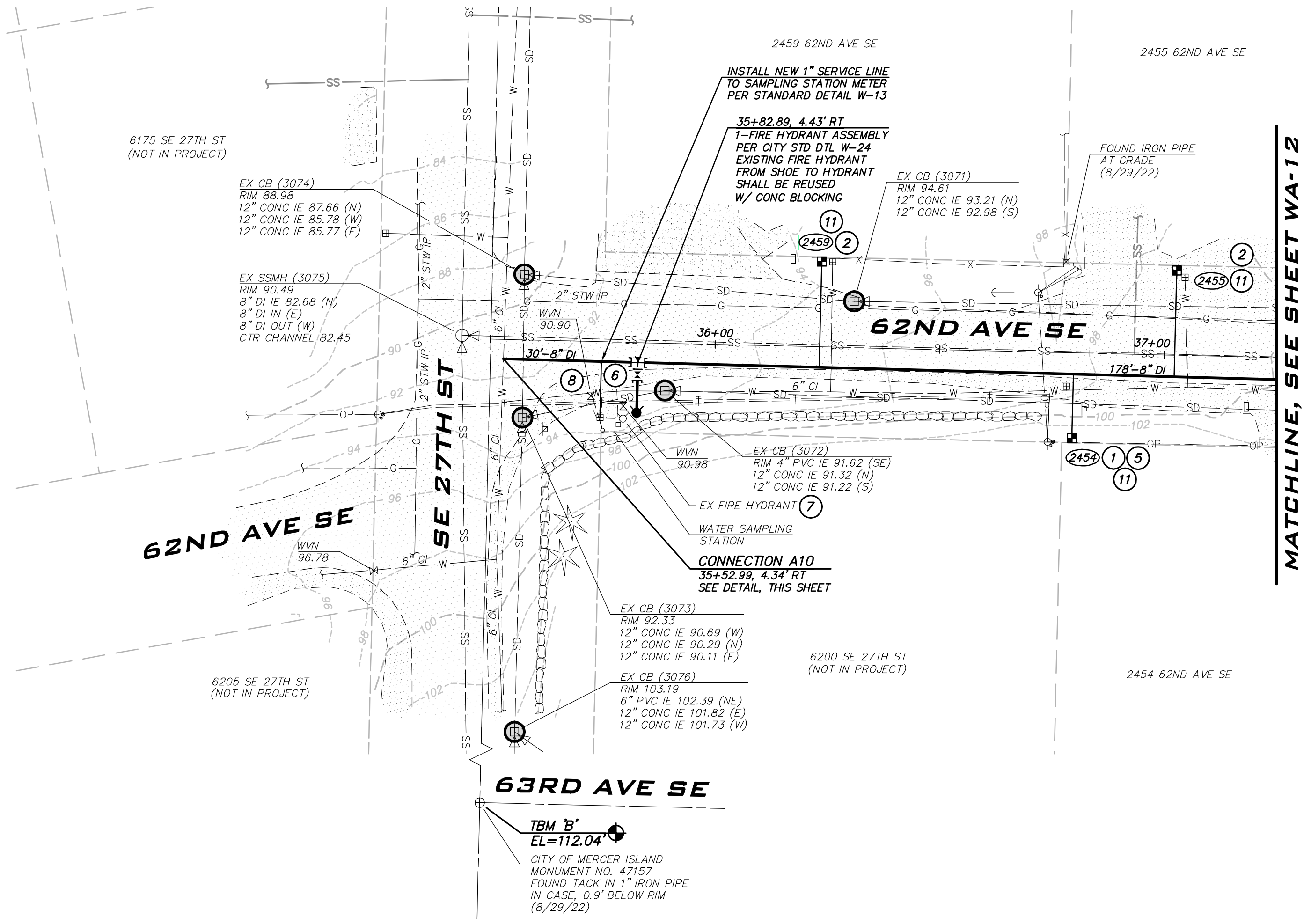
FINAL CONNECTION CONNECTION A8 & A9
 NOT TO SCALE

FIRE HYDRANT ASSEMBLY INCLUDING VALVE WILL BE PAID UNDER "INSTALL NEW FIRE HYDRANT ASSEMBLY" BID ITEM.

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 CITY OF MERCER ISLAND WASHINGTON

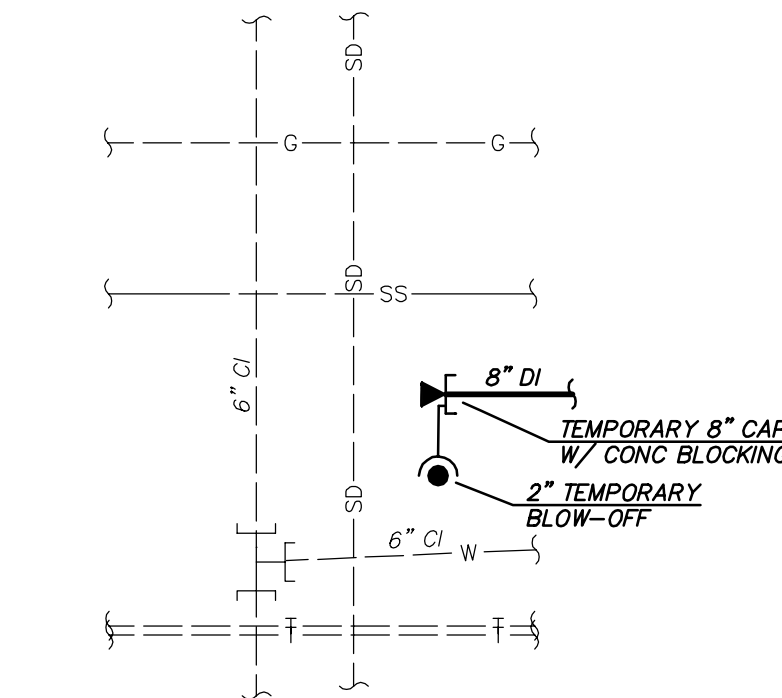
6/9/23
 JOB NUMBER:
22-229
 SHEET NAME:
WA-10
 SHT **25** OF **68**



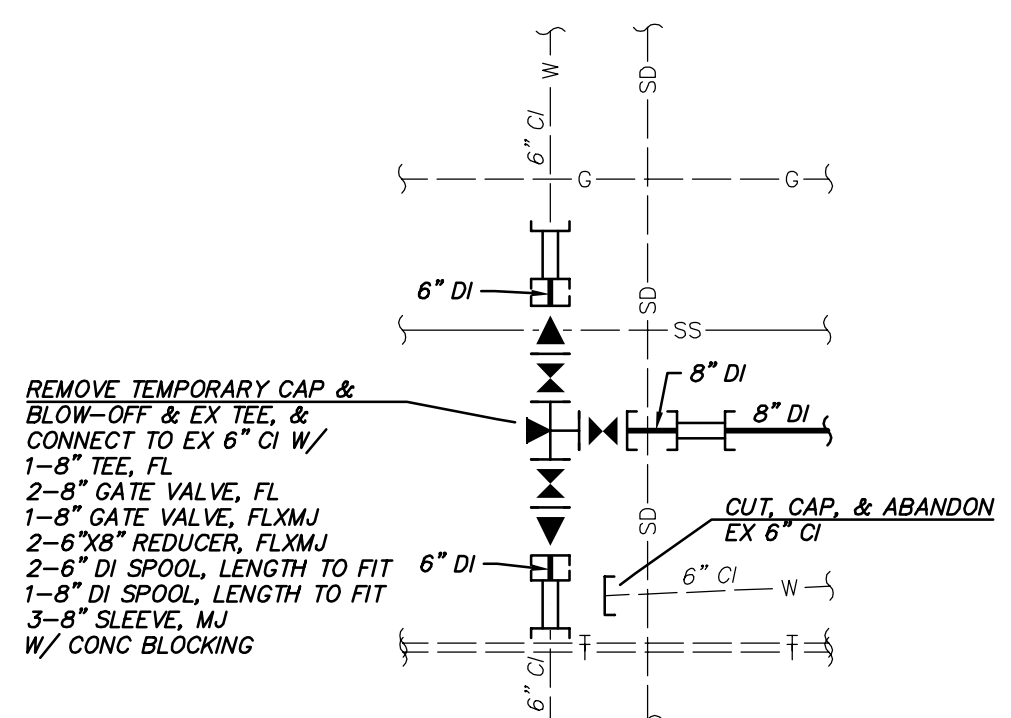
BLUELINE

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SCALE: AS NOTED
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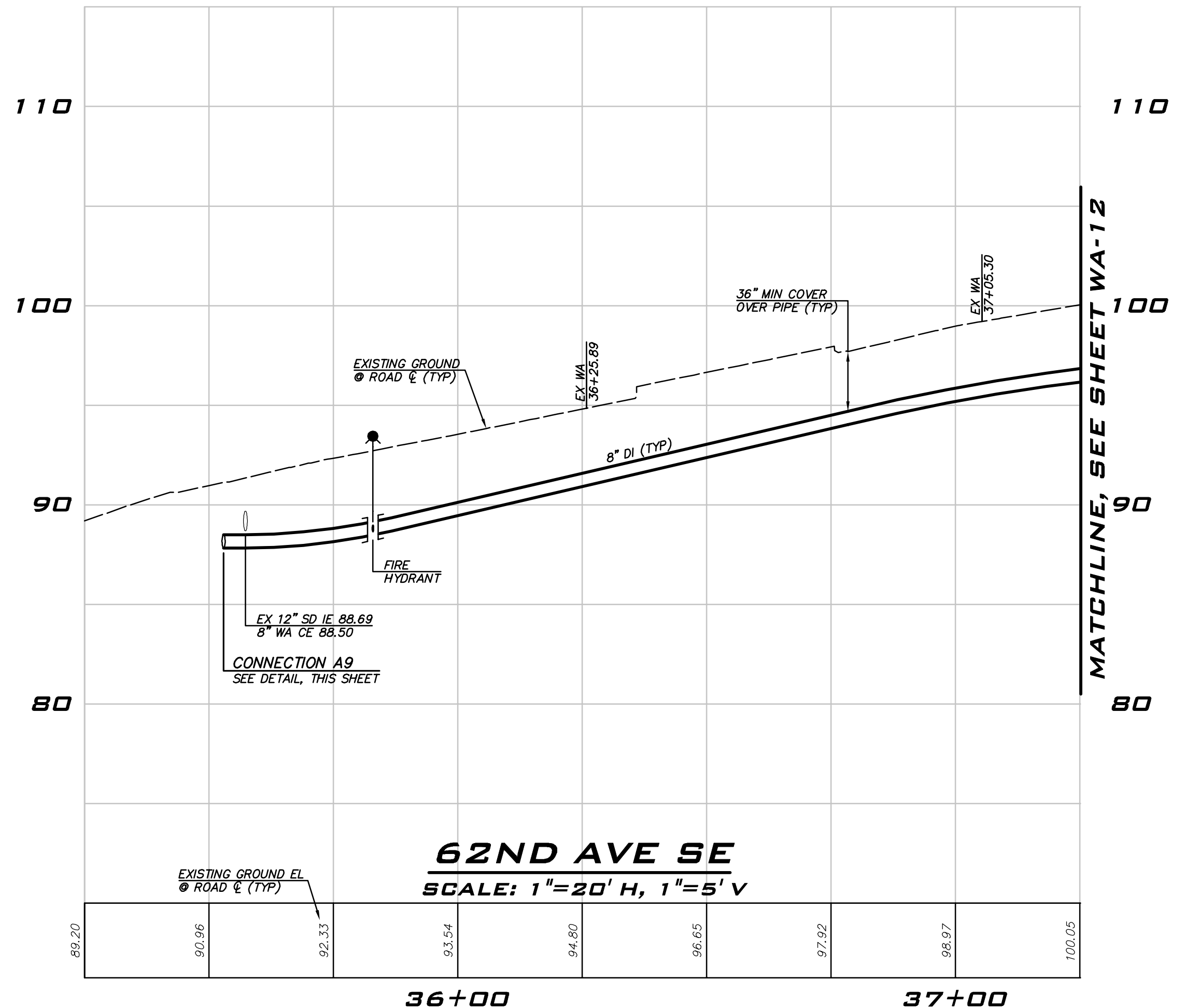
TESTING CONNECTION



FINAL CONNECTION
 CONNECTION A10
 NOT TO SCALE

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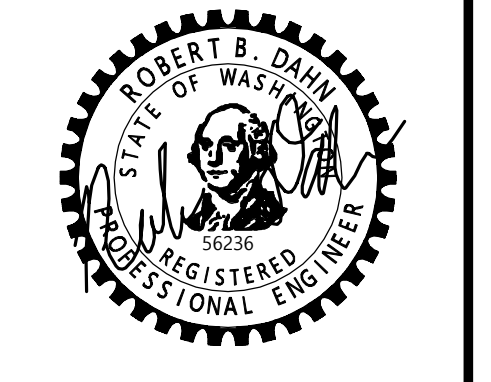
- NOTES**
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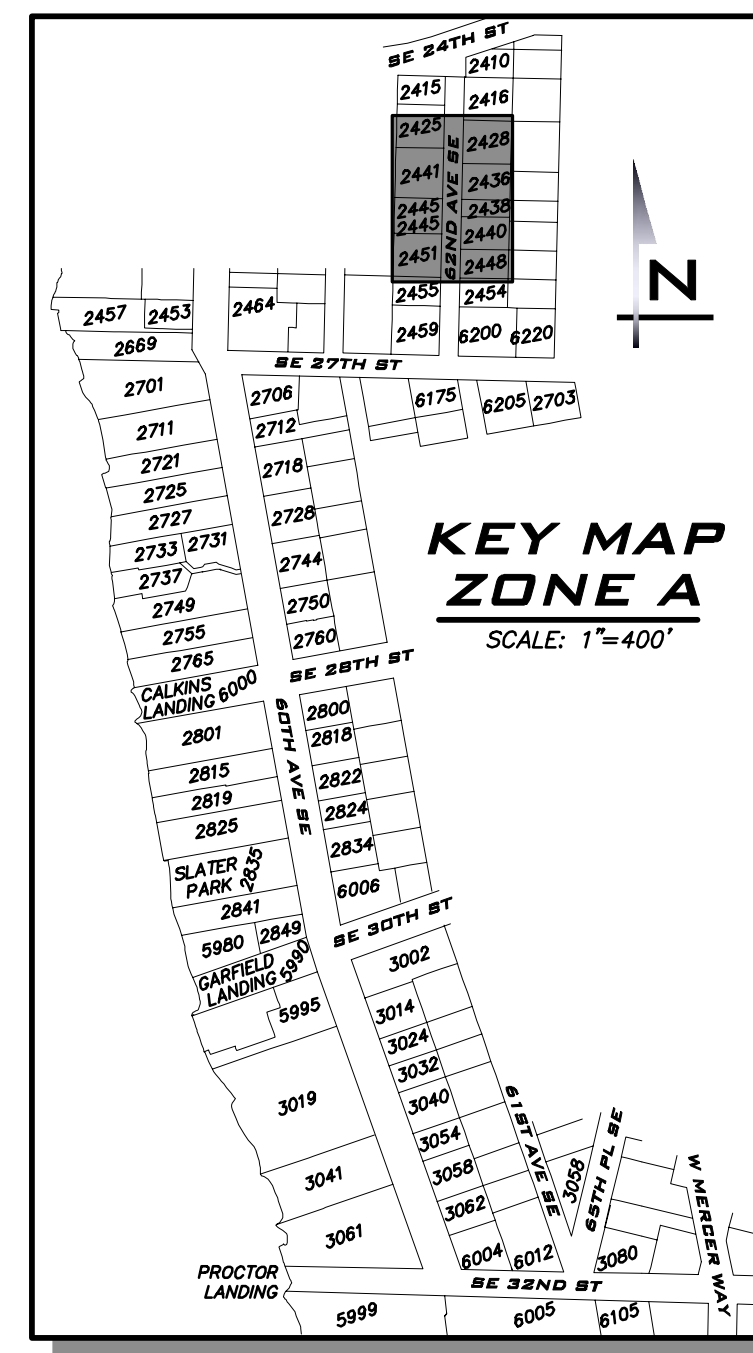
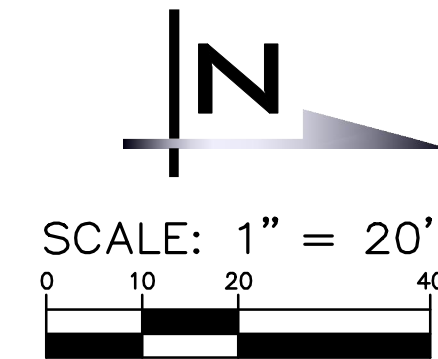
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WATER PLAN - 62ND AVE SE -
 ZONE A
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



6/9/23
 JOB NUMBER:
22-229
 SHEET NAME:
WA-11
 SHT **26** OF **68**



25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

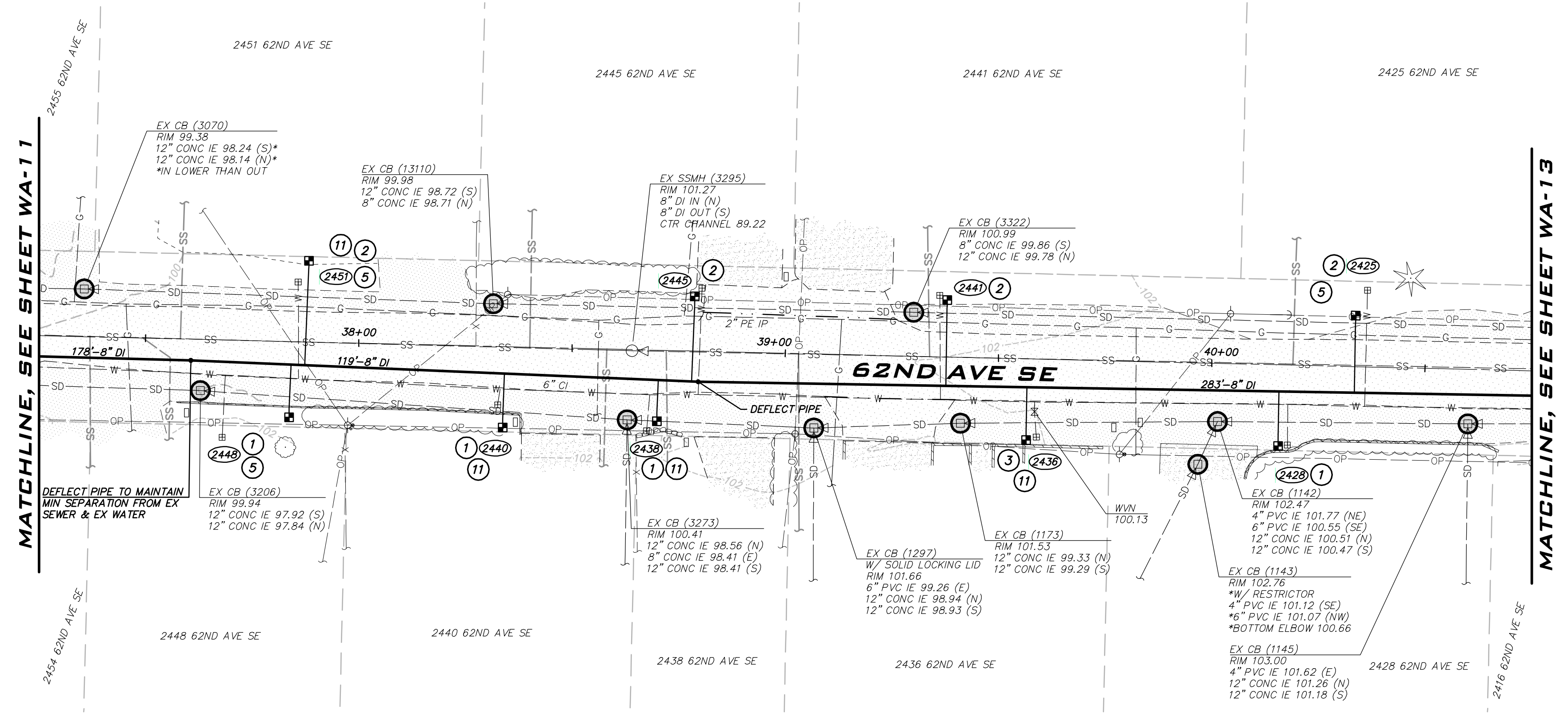
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

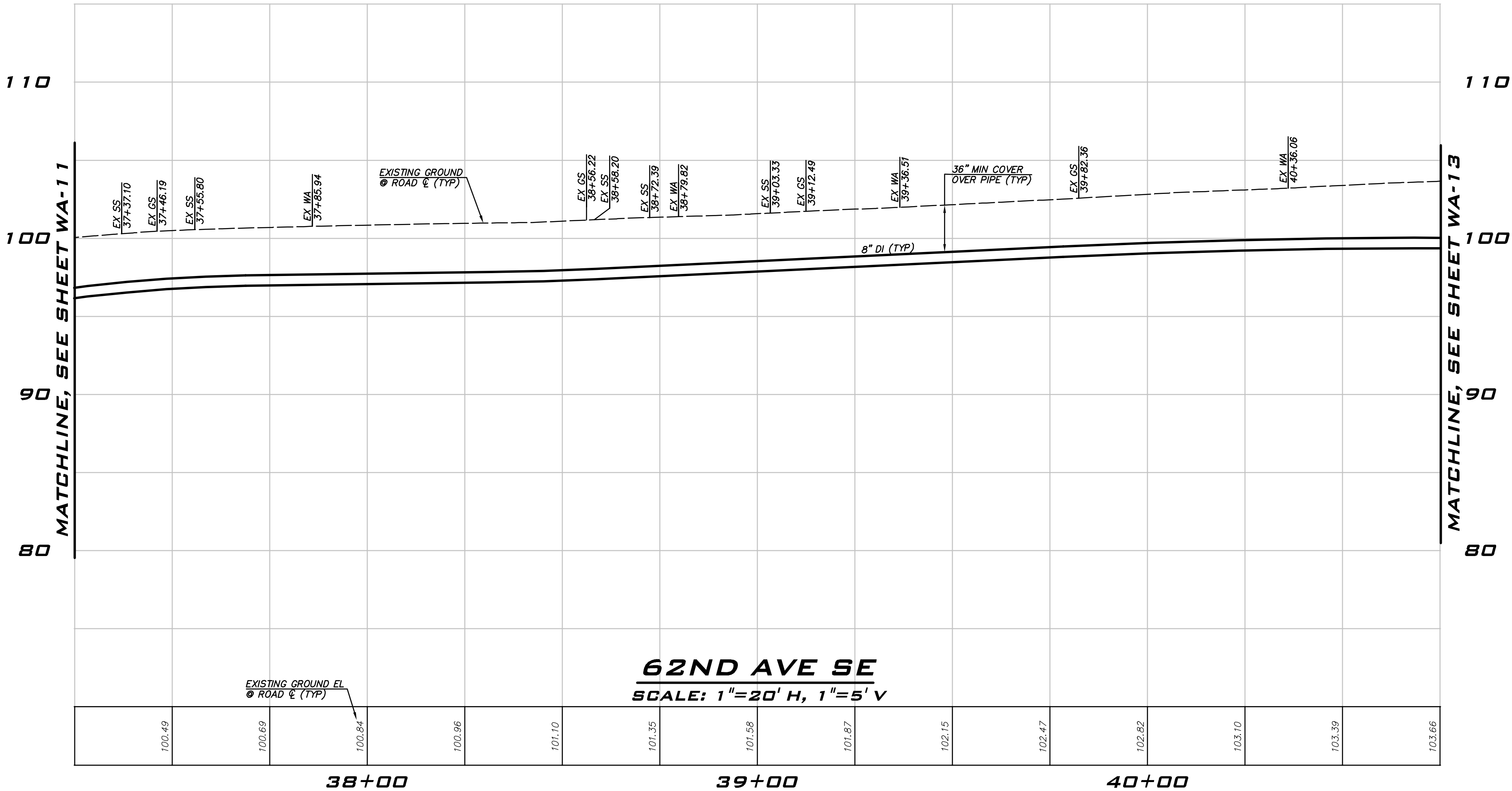


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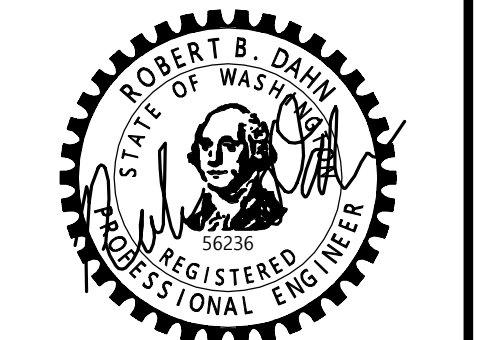
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EXISTING UTILITY NOTE

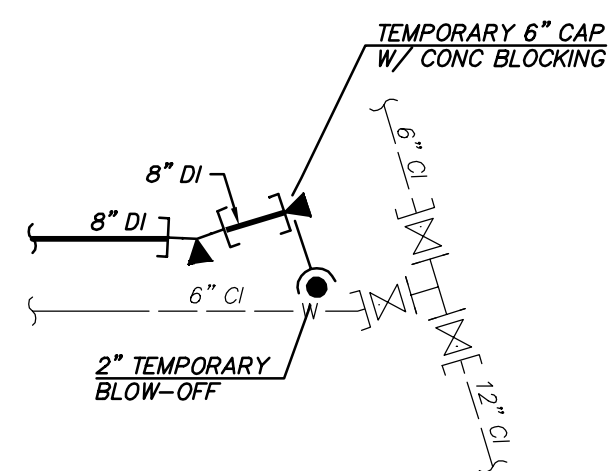
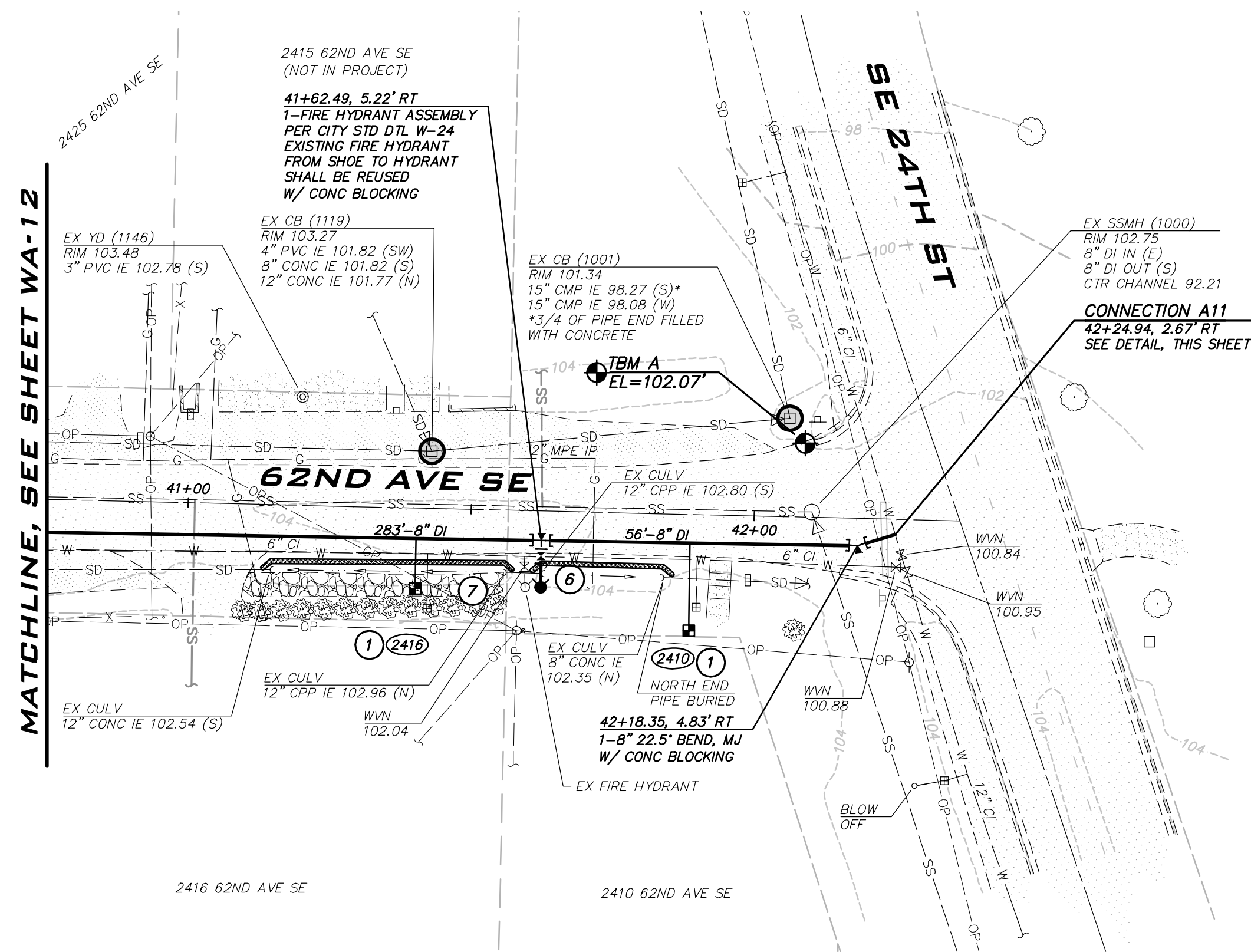
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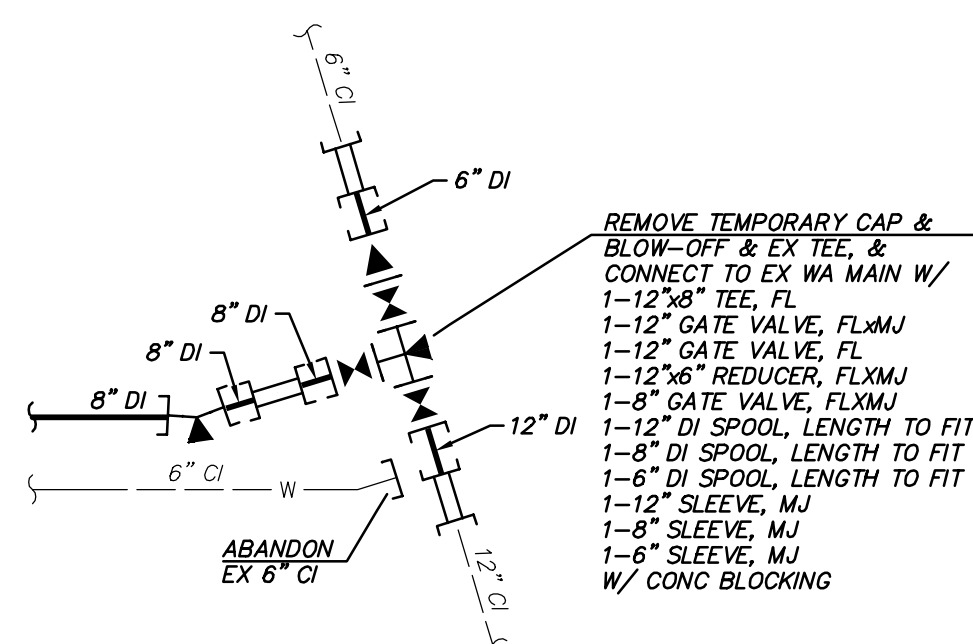
WATER PLAN - 62ND AVE SE -
ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



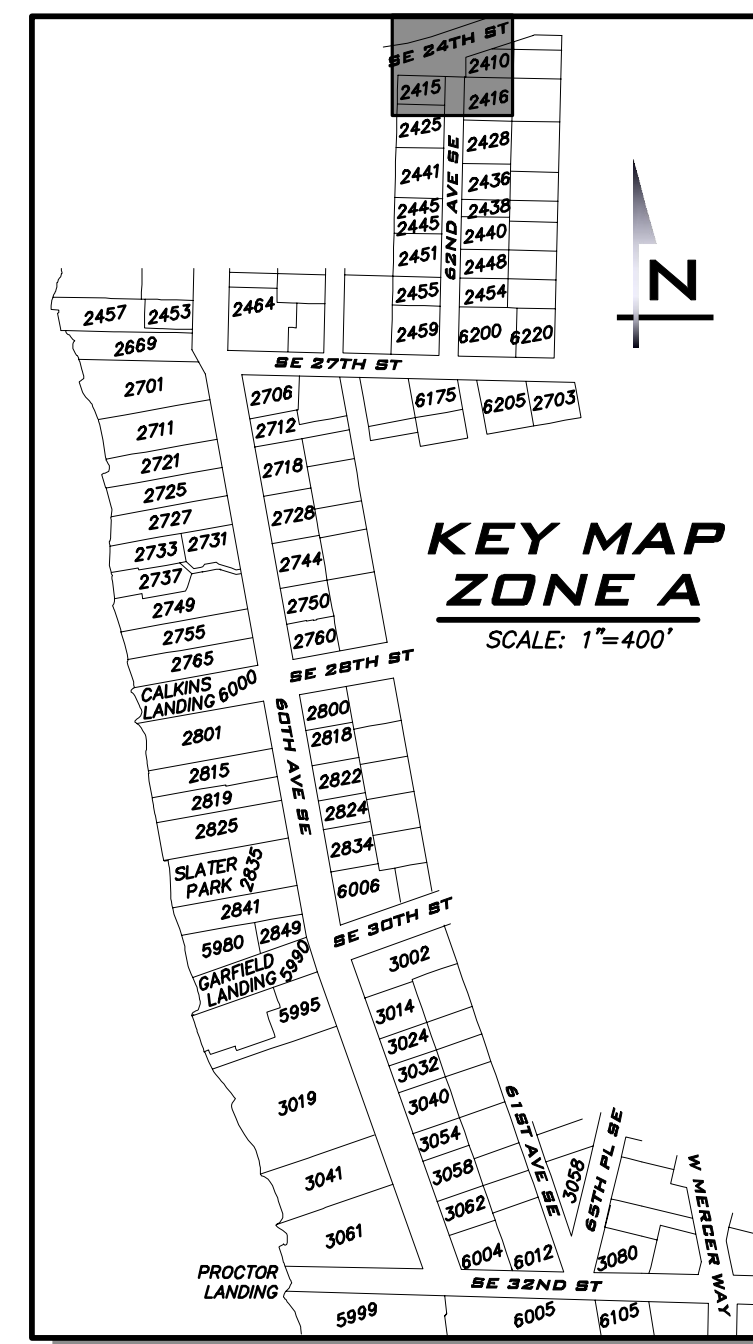
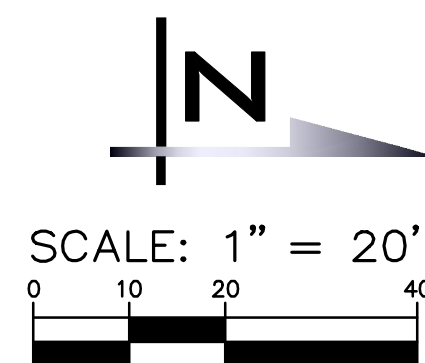
6/9/23
JOB NUMBER:
22-229
SHEET NAME:
WA-12



TESTING CONNECTION



FINAL CONNECTION
CONNECTION A11
NOT TO SCALE



KEY MAP
ZONE A
SCALE: 1"=400'



25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
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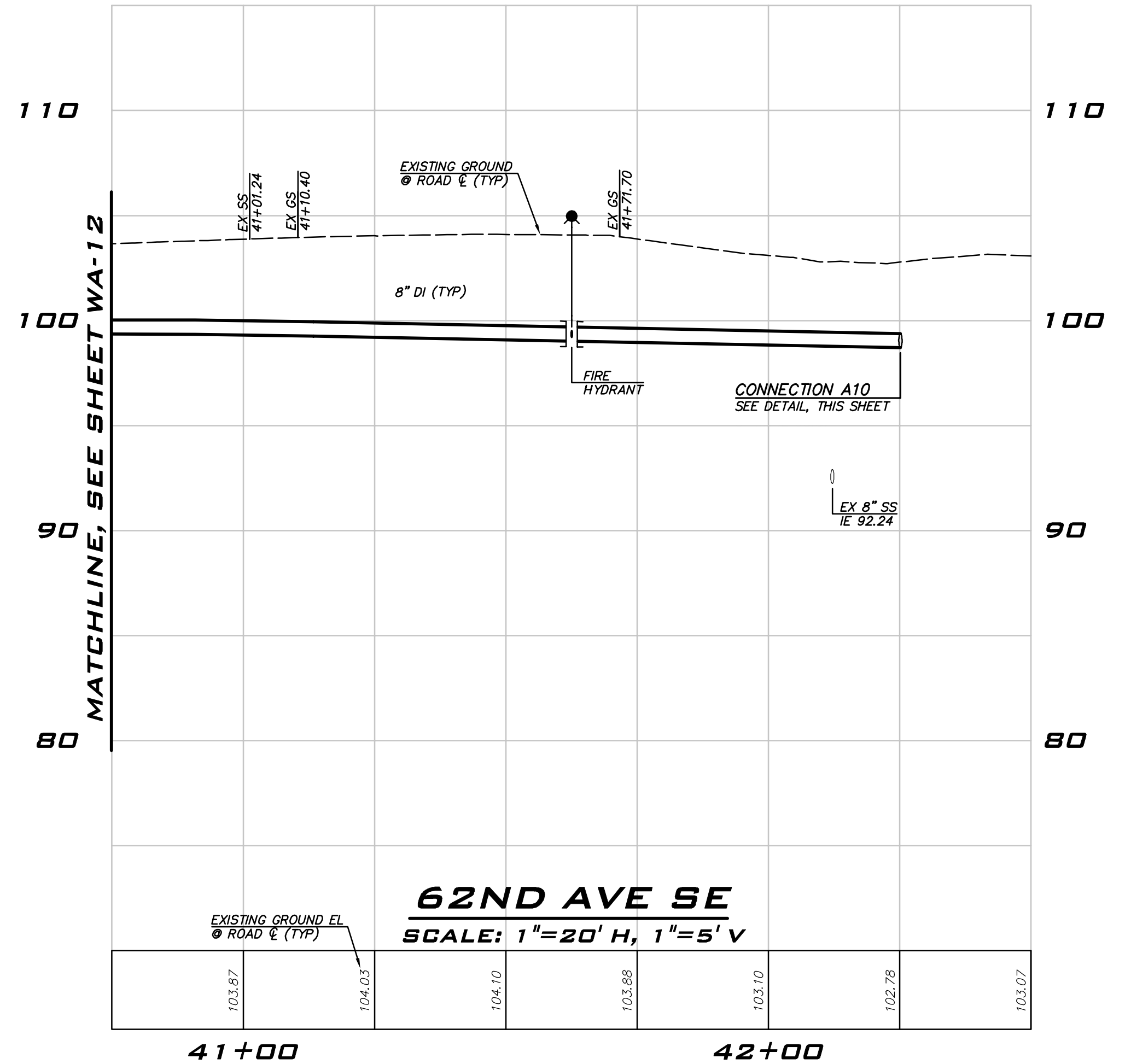
NO	DATE	BY	REVISIONS

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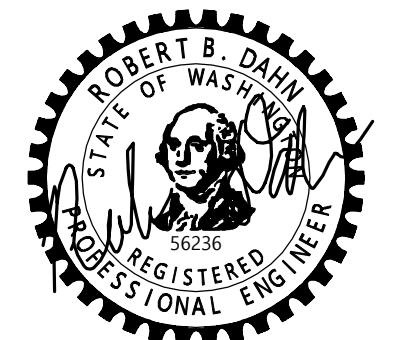
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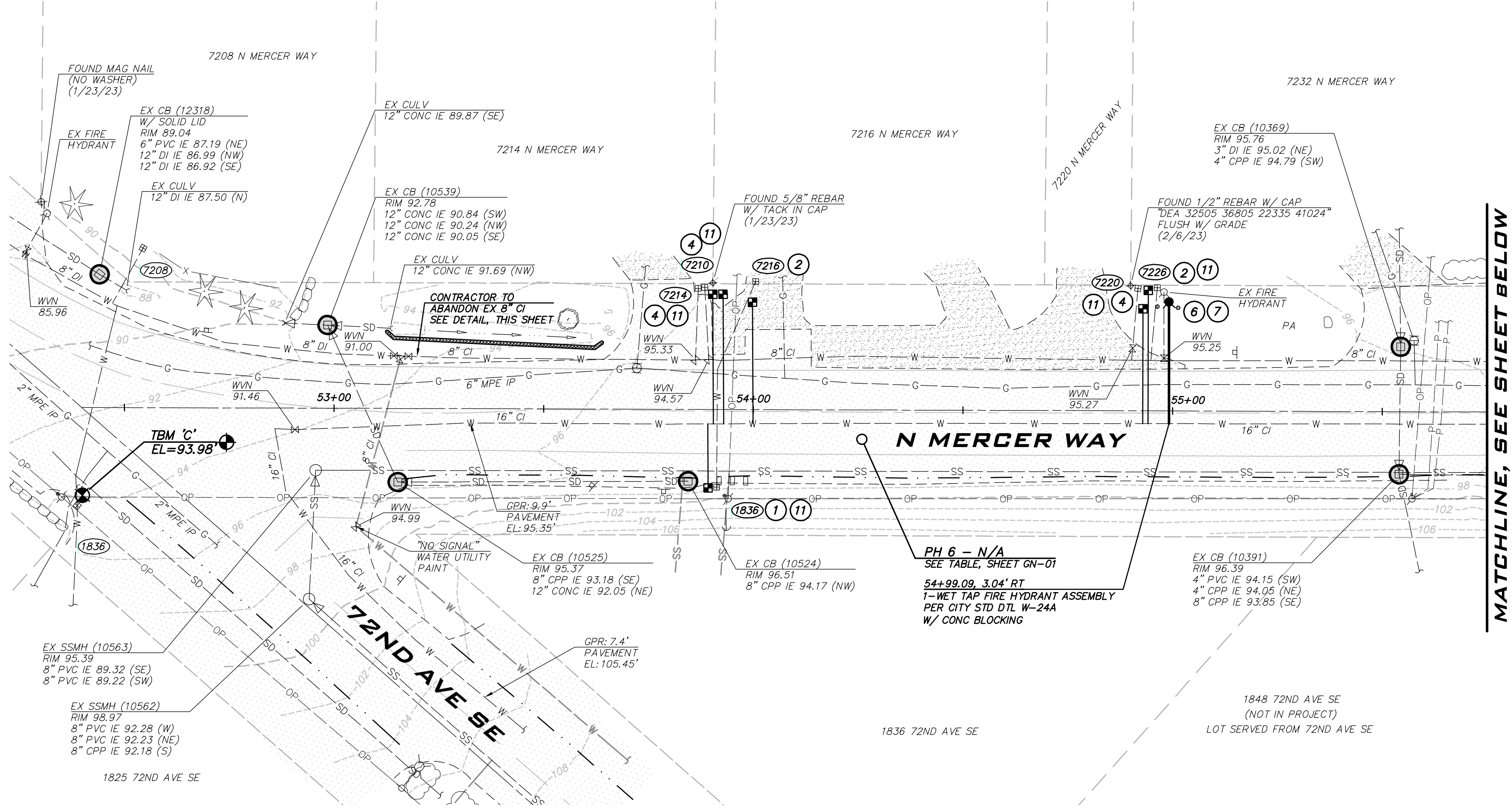
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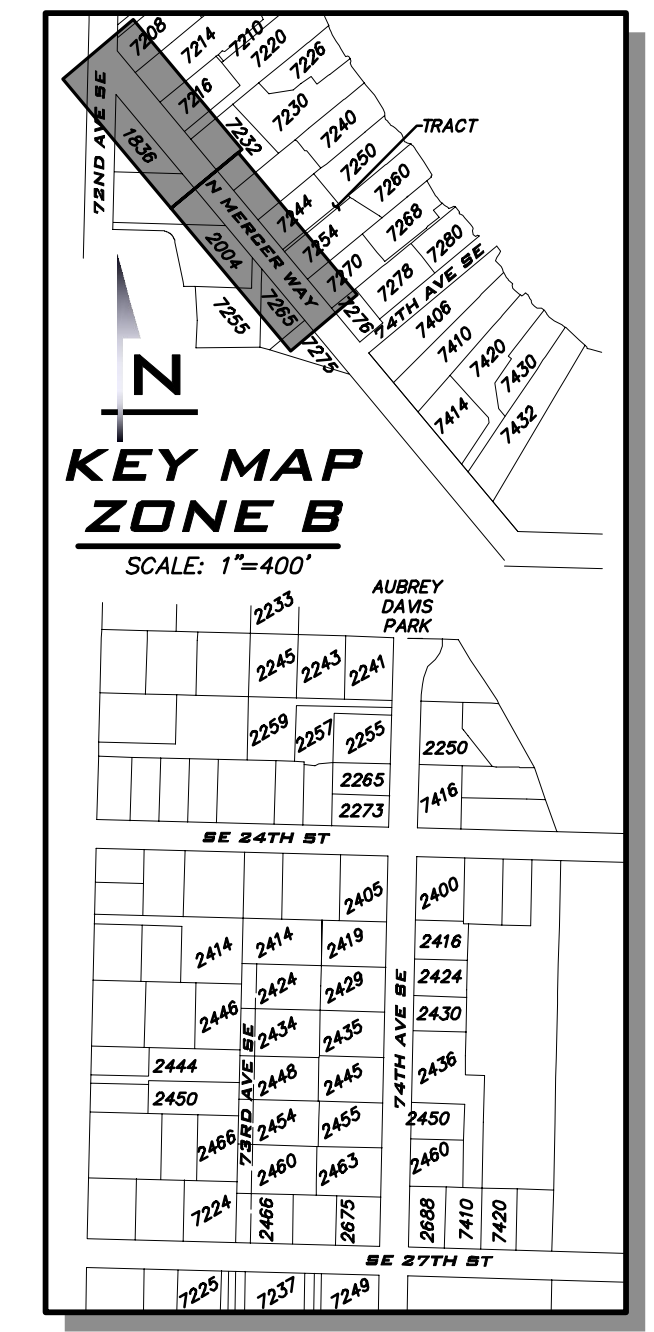
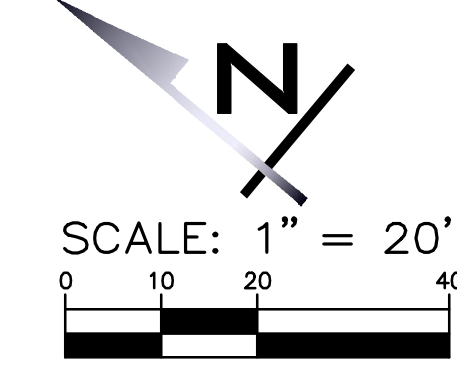
WATER PLAN - 62ND AVE SE -
ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
WA-13



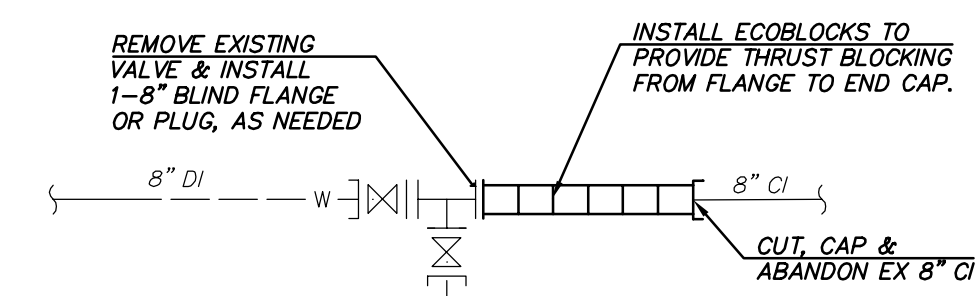
MATCHLINE, SEE SHEET BELOW



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
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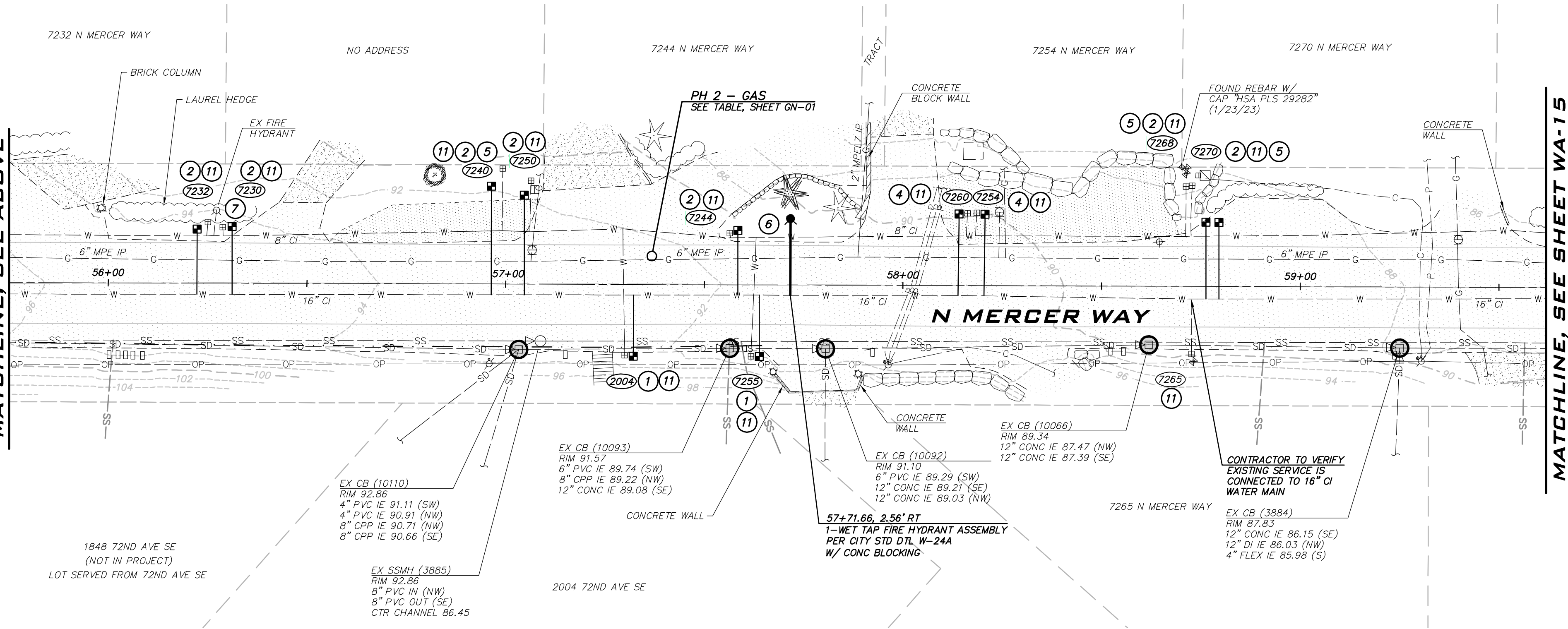
SCALE: AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023



ABANDONMENT DETAIL
NOT TO SCALE

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MATCHLINE, SEE ABOVE

MATCHLINE, SEE SHEET WA-15

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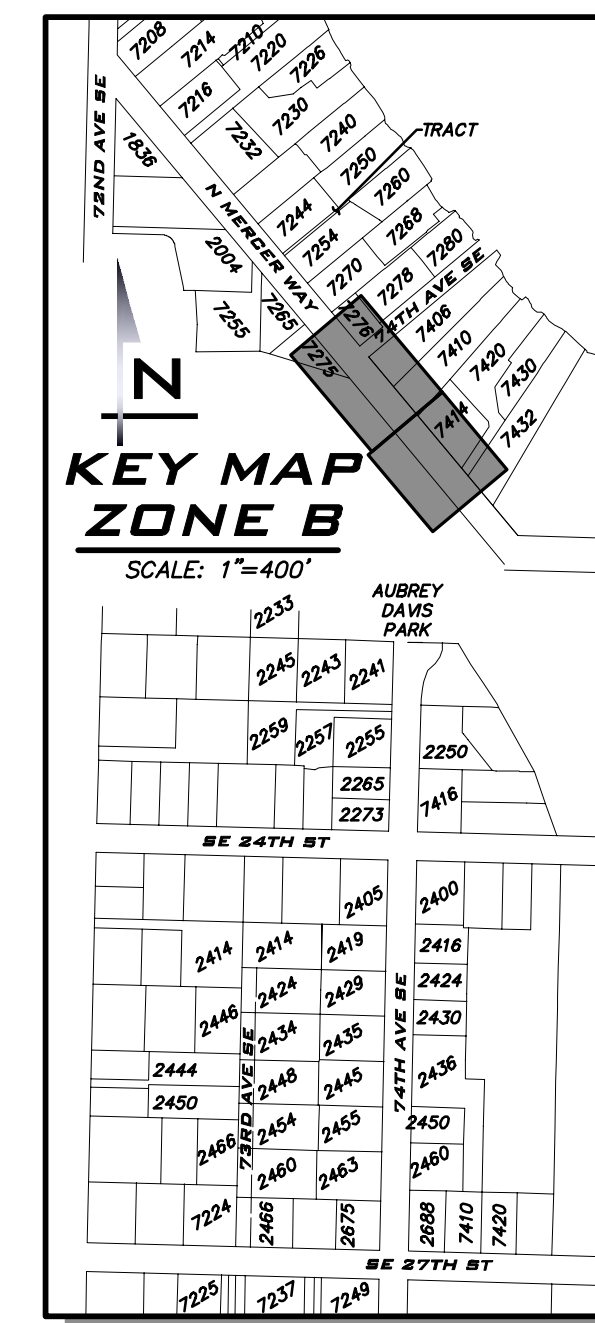
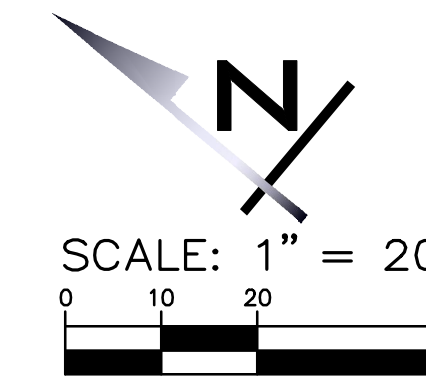
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NO	DATE	BY	REVISIONS

WATER PLAN - N MERCER WAY - ZONE B
2023 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

6/9/23
JOB NUMBER:
22-229
SHEET NAME:
WA-14
SHT **29** OF **68**



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
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SCALE:
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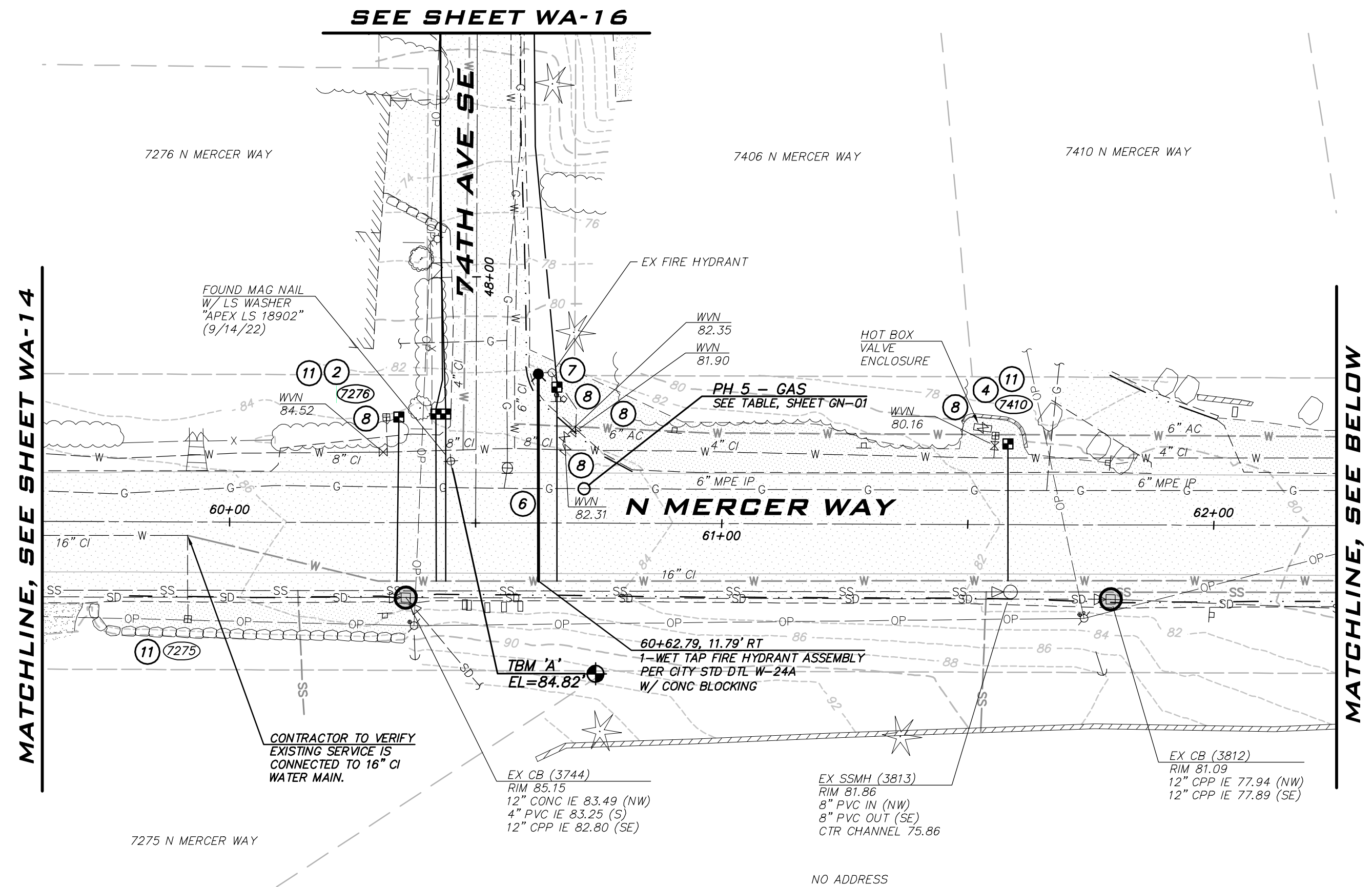
PROJECT MANAGER:
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ISSUE DATE:
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NO	DATE	BY	REVISIONS

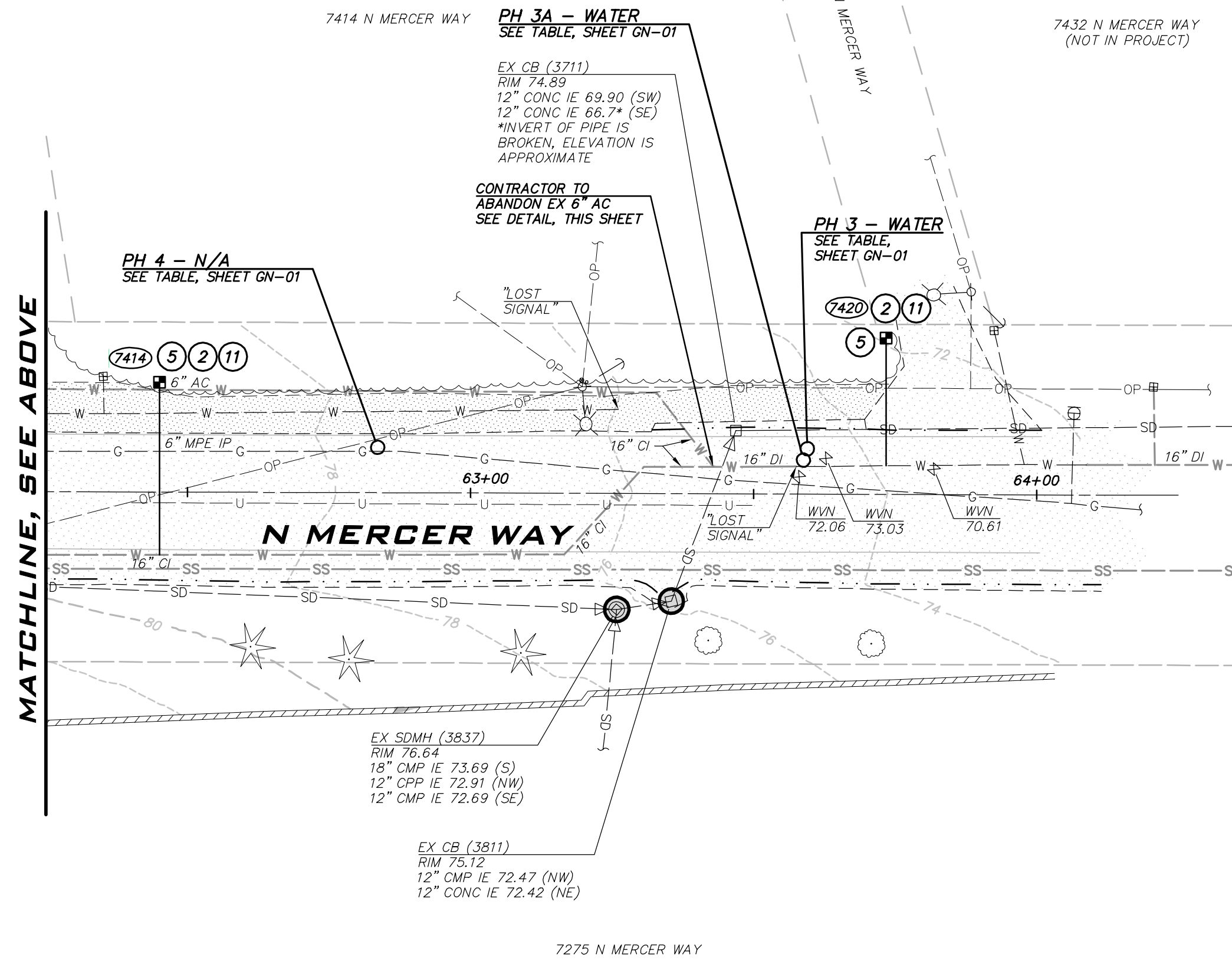
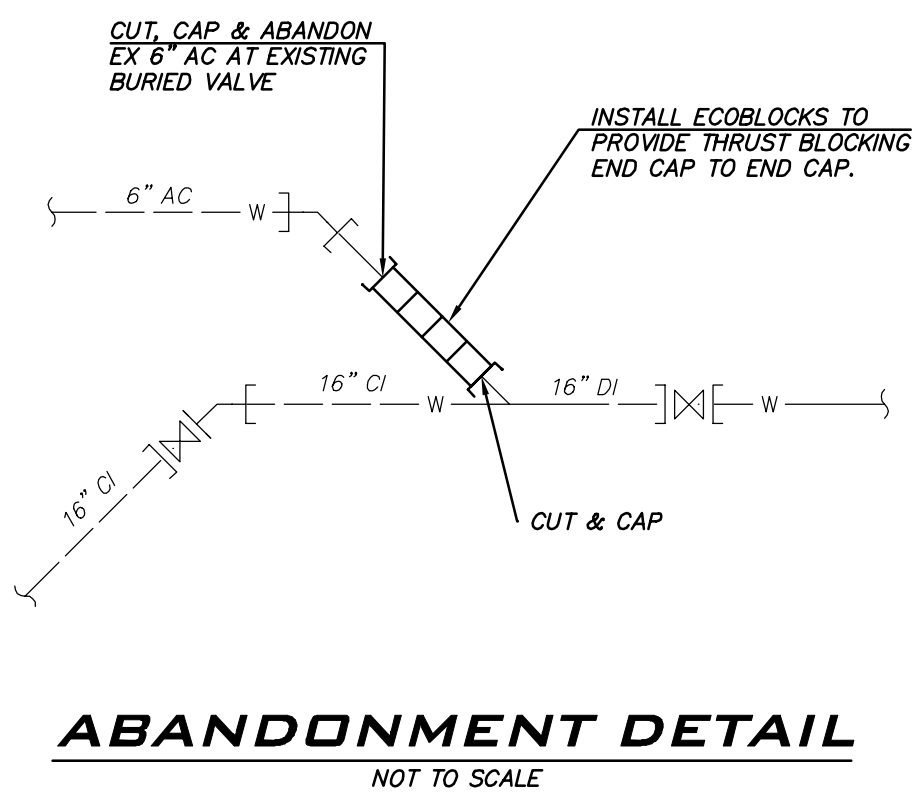


MATCHLINE, SEE SHEET WA-14

MATCHLINE, SEE BELOW

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WATER PLAN - N MERCER WAY - ZONE B
2023 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

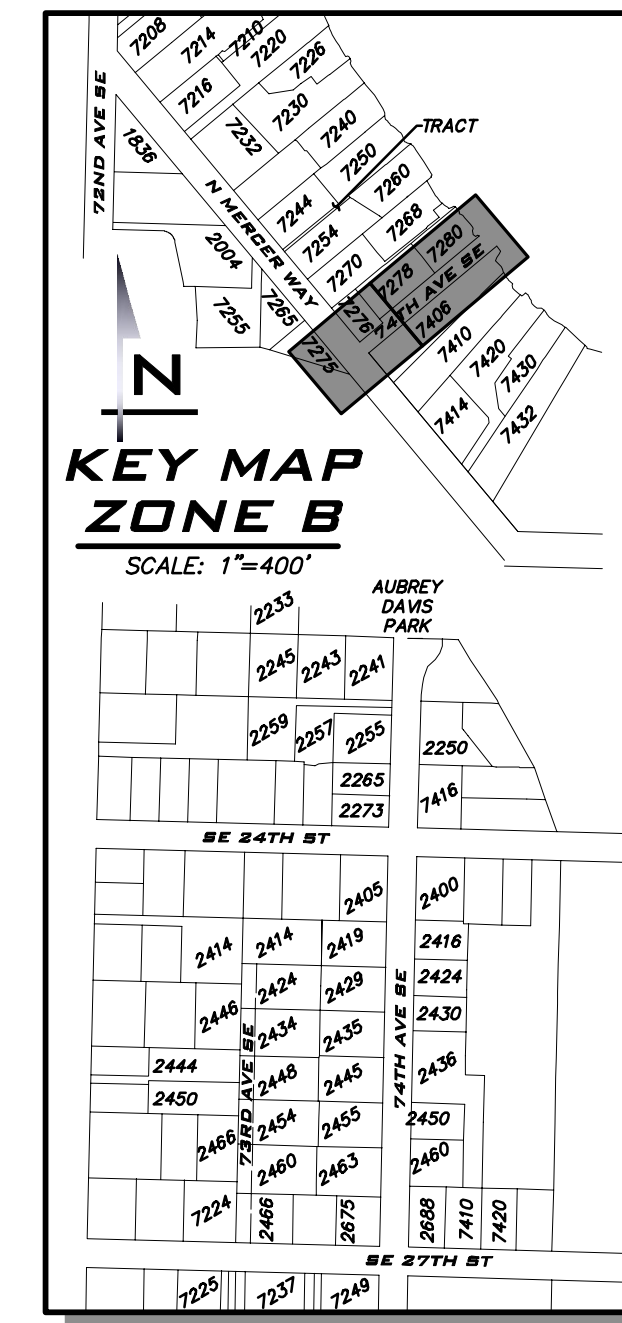
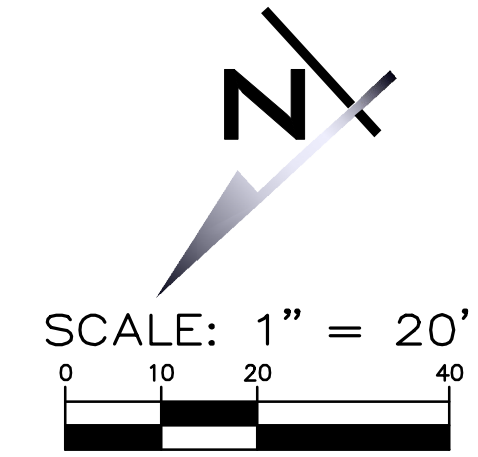


6/9/23

JOB NUMBER:
22-229

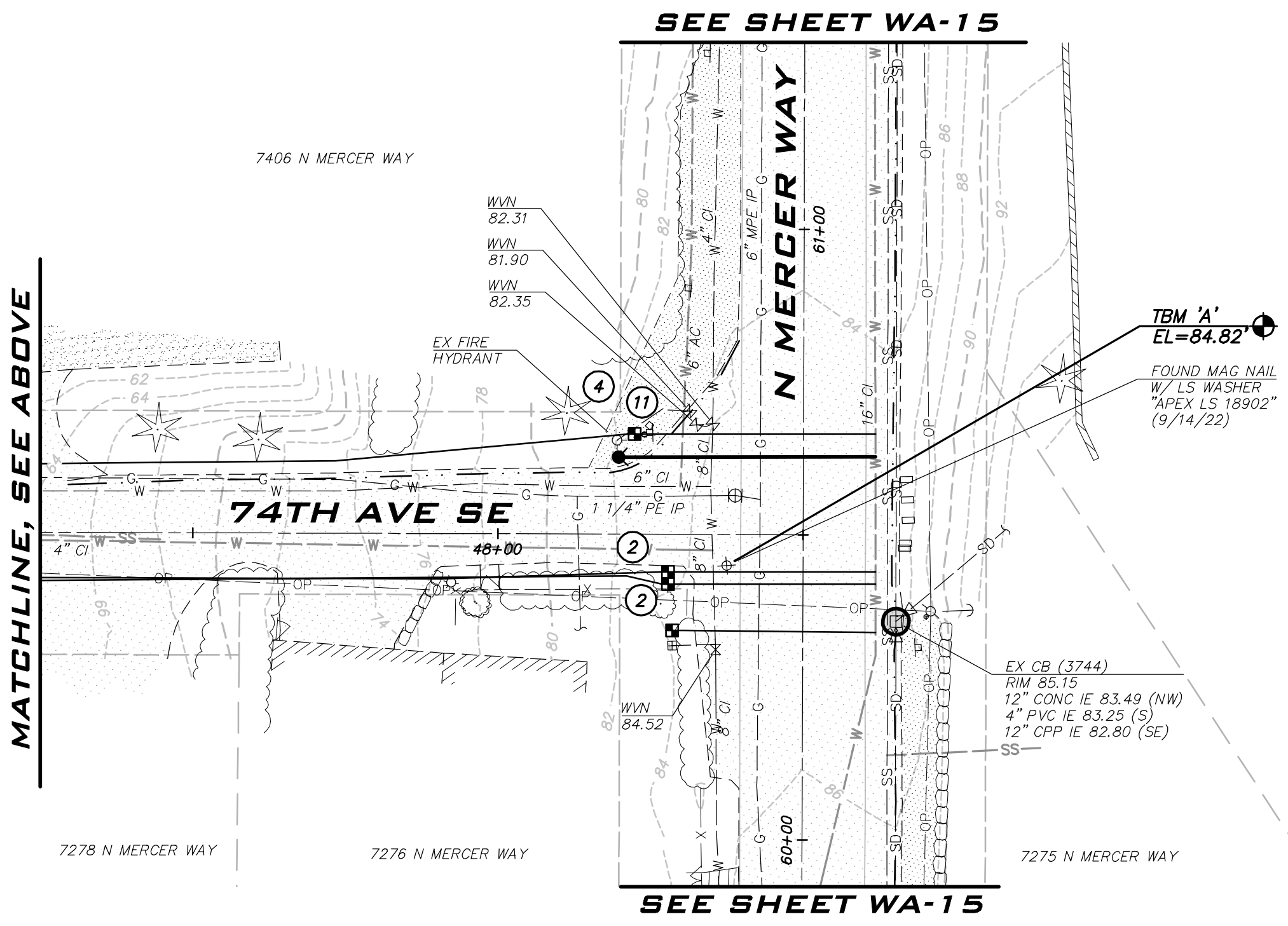
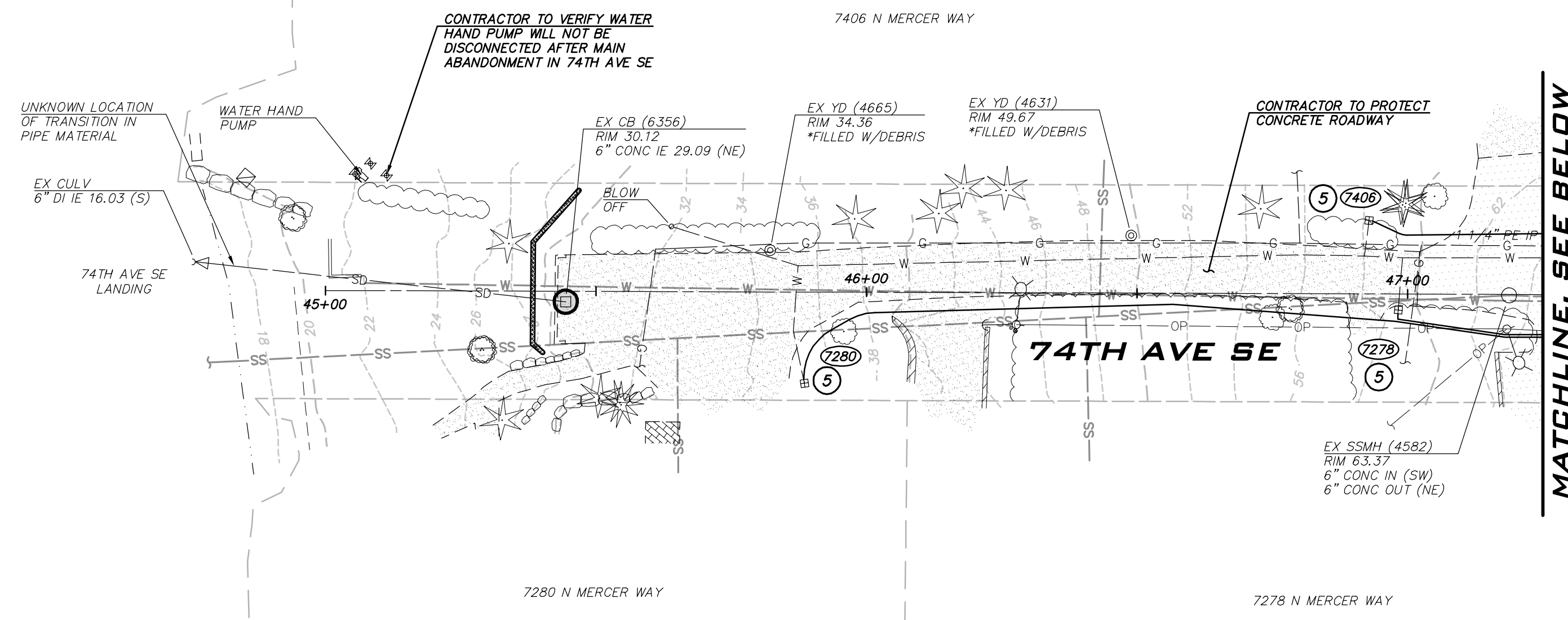
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WA-15

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25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023



- CONSTRUCTION NOTES**
1. ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
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 3. COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 4. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

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- 1) INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10)
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 - 3) INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10)
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 - 7) REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
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 - 10) EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
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 - 13) COMPLETE SERVICE INSTALLATION PRIOR TO ABANDONMENT.
 - 14) INSTALL 2" LONG SIDE WATER SERVICE FOR 2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10).

GAS NOTE
PSE REPRESENTATIVE SHALL BE ONSITE WHEN WORKING NEAR 6" GAS UTILITY. CONTRACTOR SHALL NOTIFY PSE 48HRS IN ADVANCE.

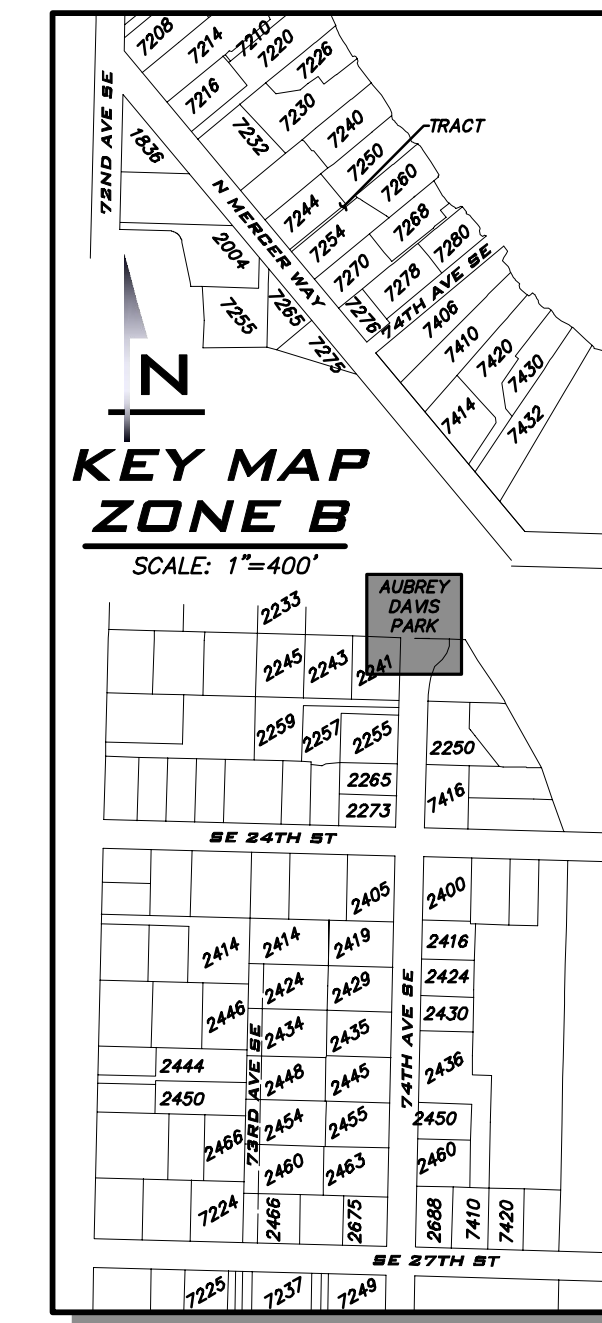
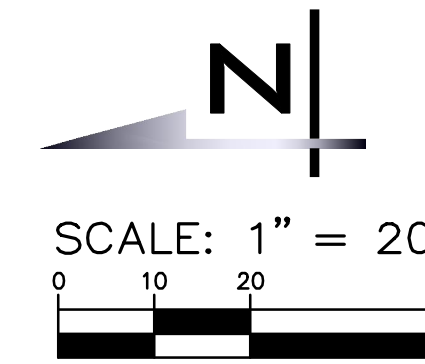
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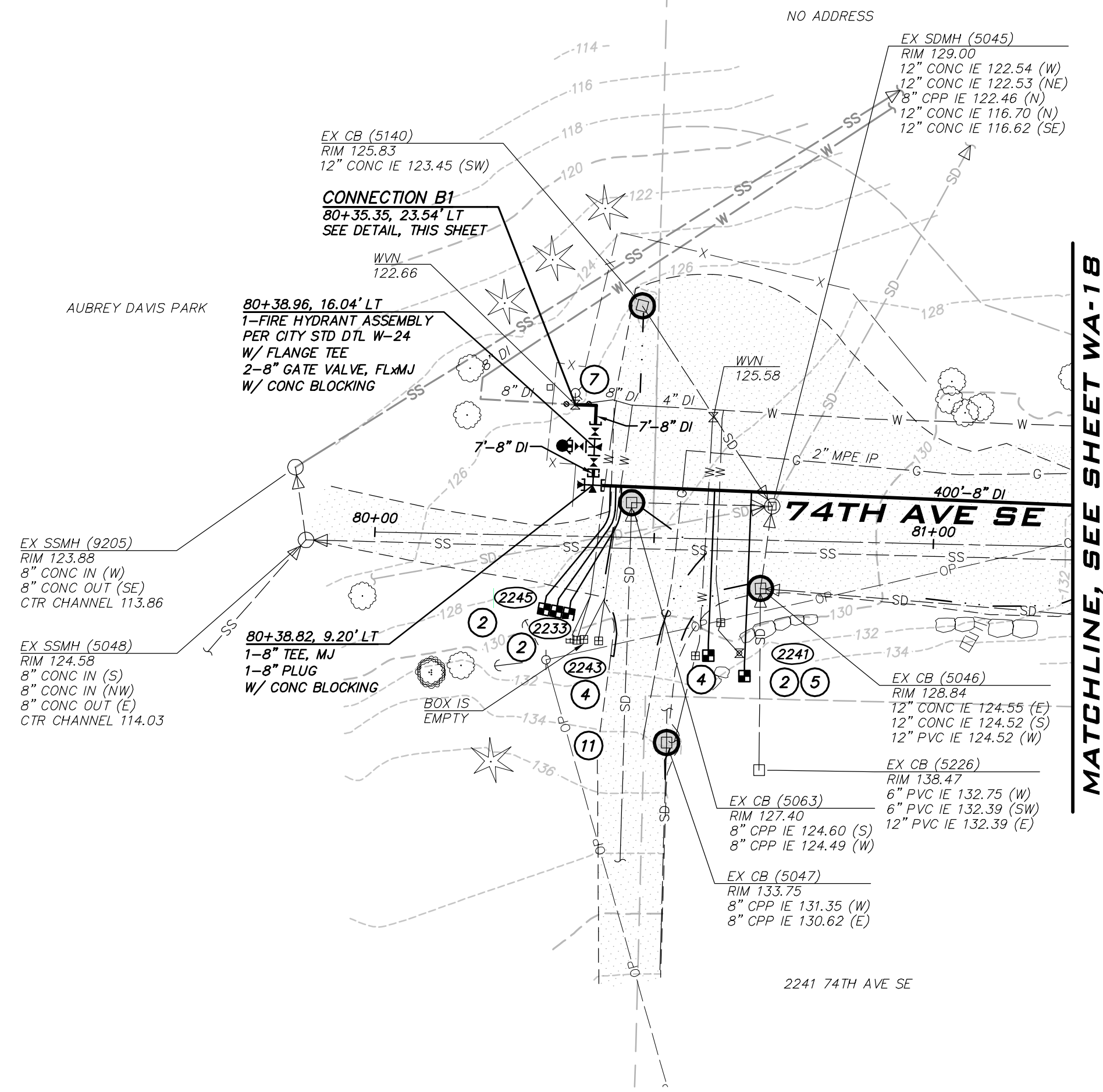
WATER PLAN - 74TH AVE SE -
ZONE B
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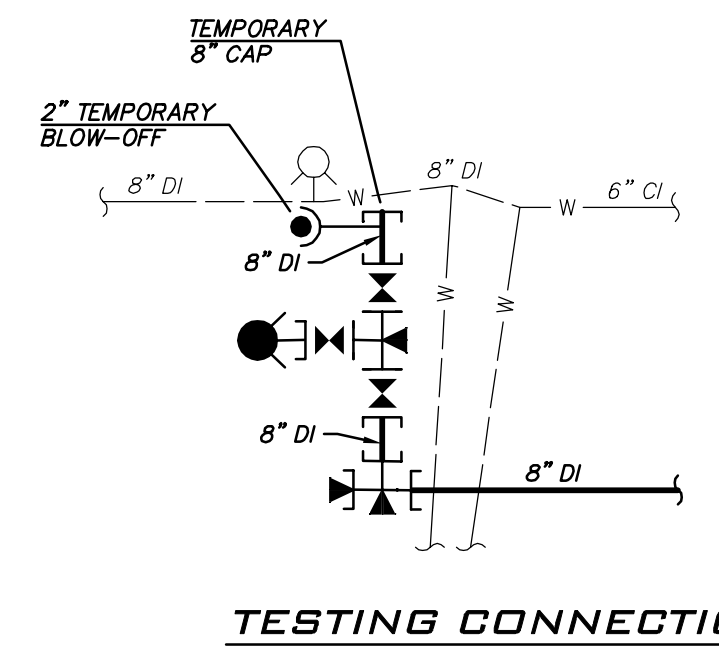
6/9/23
JOB NUMBER:
22-229
SHEET NAME:
WA-16



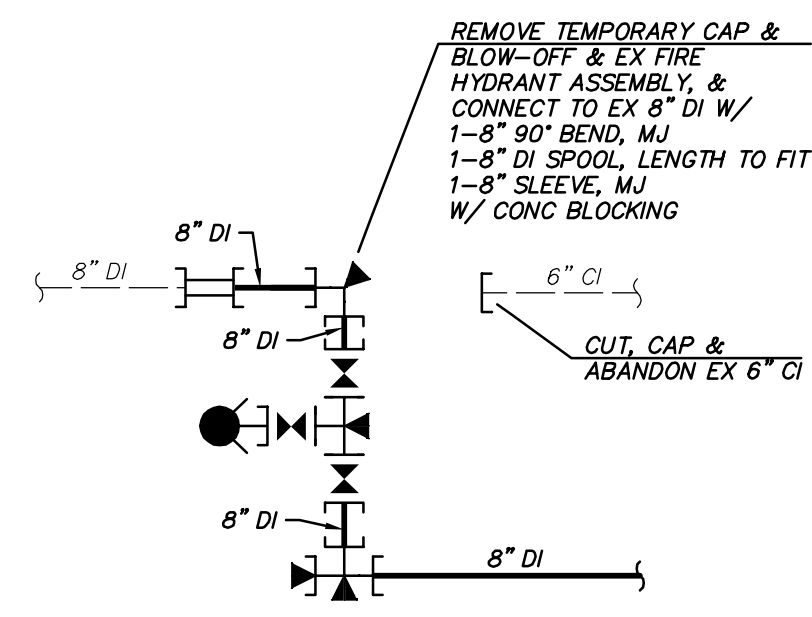
SCALE: AS NOTED
 PROJECT MANAGER: ROB DAHN, PE
 PROJECT ENGINEER: GRACE GARWIN, EIT
 DESIGNER: CAROL DOGGETT
 ISSUE DATE: 6/9/2023



MATCHLINE, SEE SHEET WA-1B



TESTING CONNECTION



FINAL CONNECTION
 CONNECTION B1
 NOT TO SCALE

FIRE HYDRANT ASSEMBLY INCLUDING VALVE WILL BE PAID UNDER "INSTALL NEW FIRE HYDRANT ASSEMBLY" BID ITEM.

CONSTRUCTION NOTES

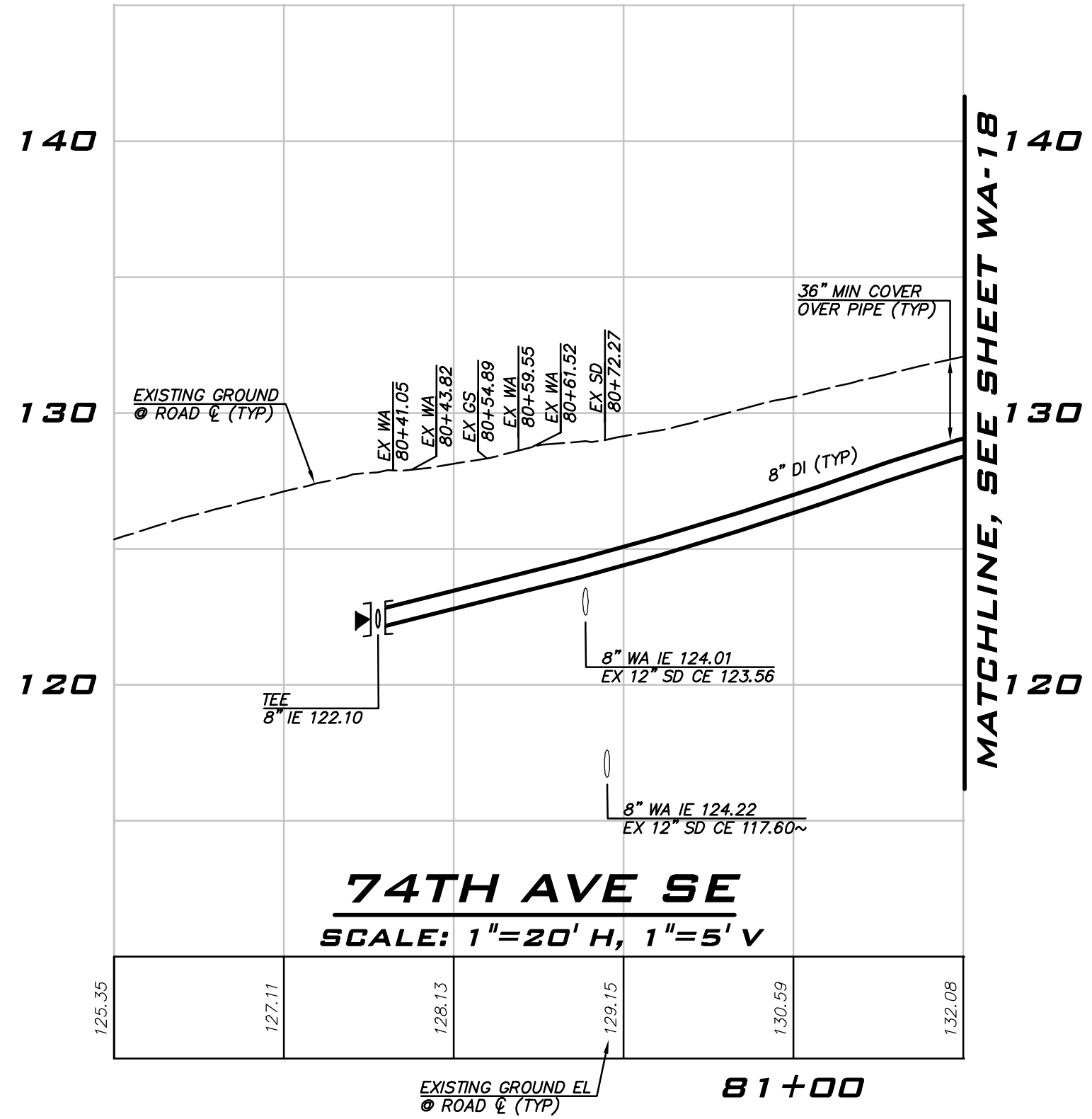
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MATCHLINE, SEE SHEET WA-1B

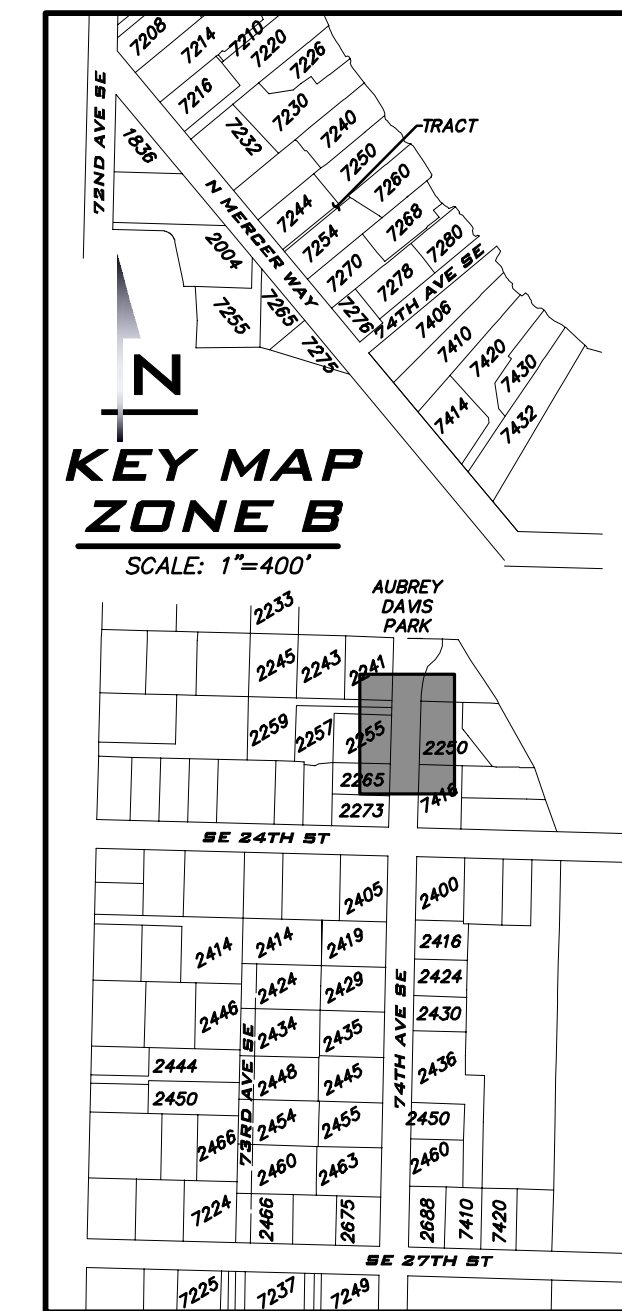
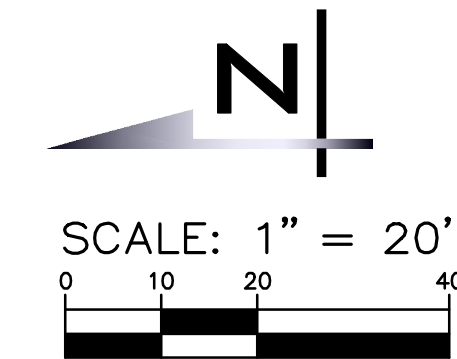
74TH AVE SE
 SCALE: 1"=20' H, 1"=5' V

NO	DATE	BY	REVISIONS

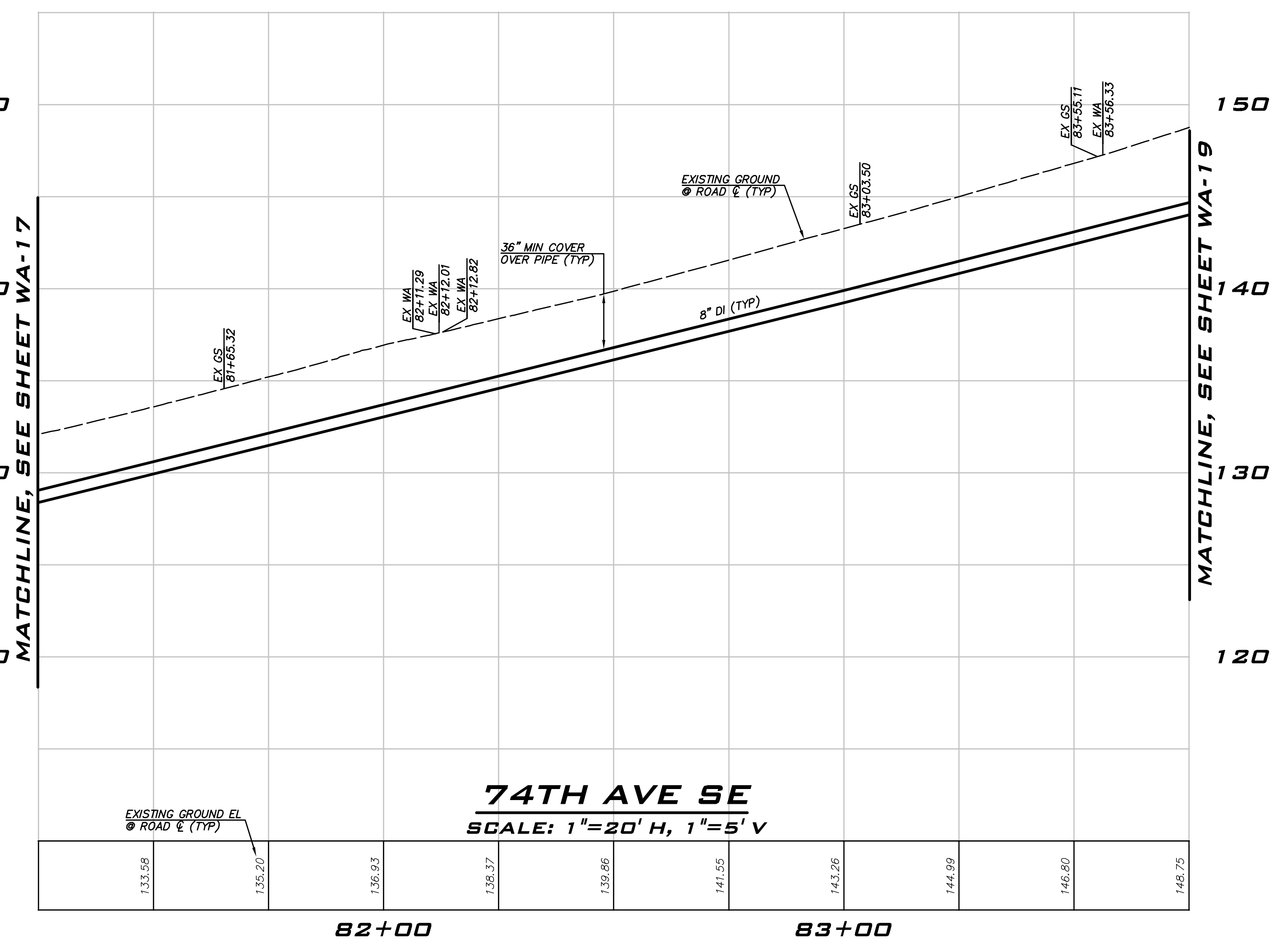
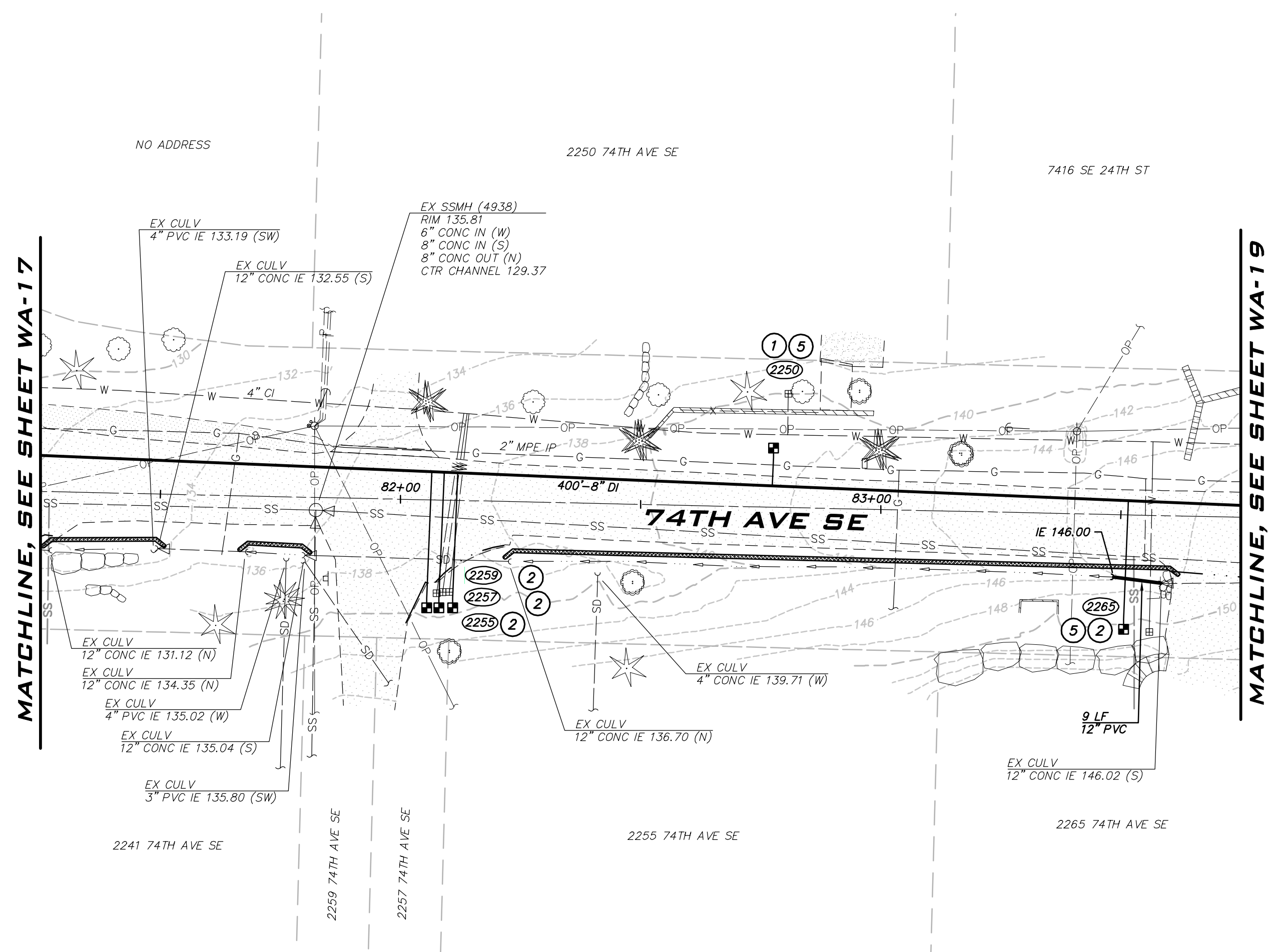
WATER PLAN - 74TH AVE SE -
 ZONE B
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



6/9/23
 JOB NUMBER:
22-229
 SHEET NAME:
WA-17



SCALE: AS NOTED
 PROJECT MANAGER: ROB DAHN, PE
 PROJECT ENGINEER: GRACE GARWIN, EIT
 DESIGNER: CAROL DOGGETT
 ISSUE DATE: 6/9/2023



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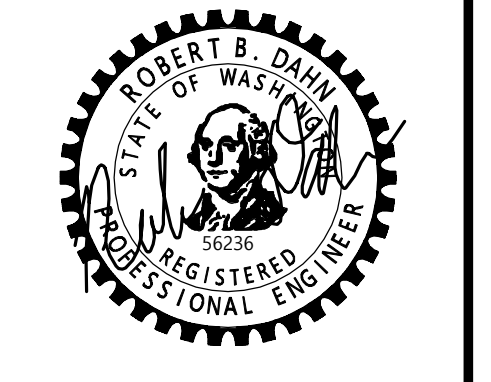
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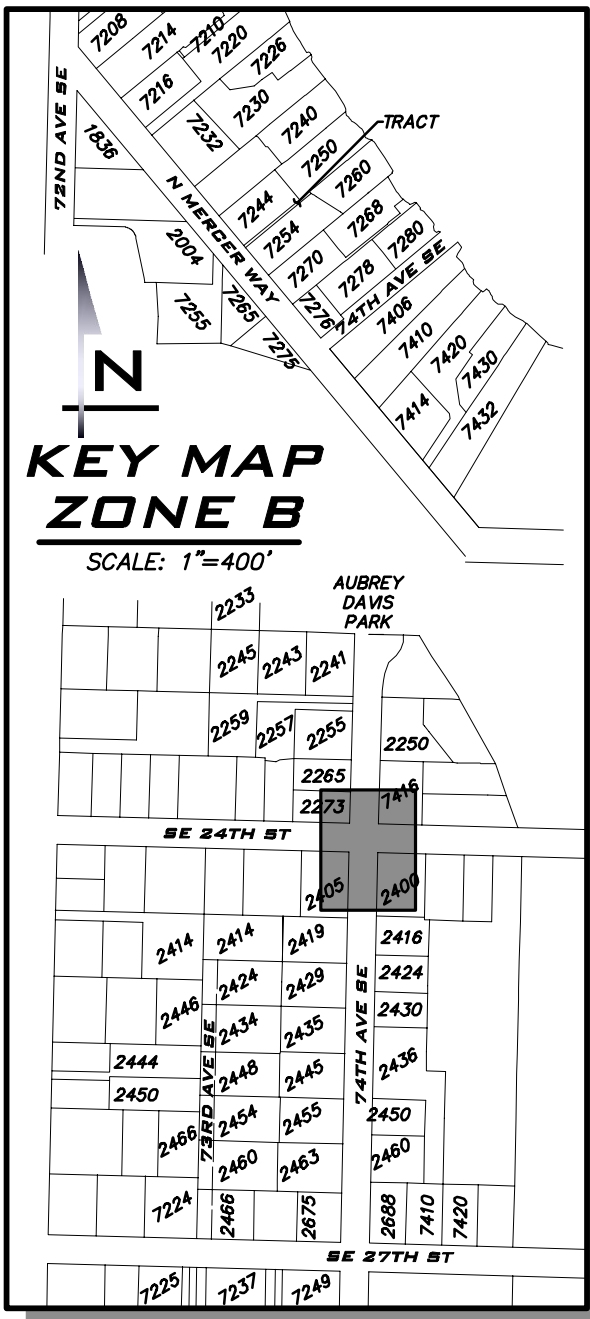
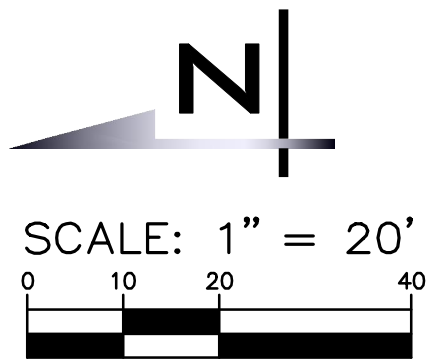
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NO	DATE	BY	REVISIONS

WATER PLAN - 74TH AVE SE -
 ZONE B
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

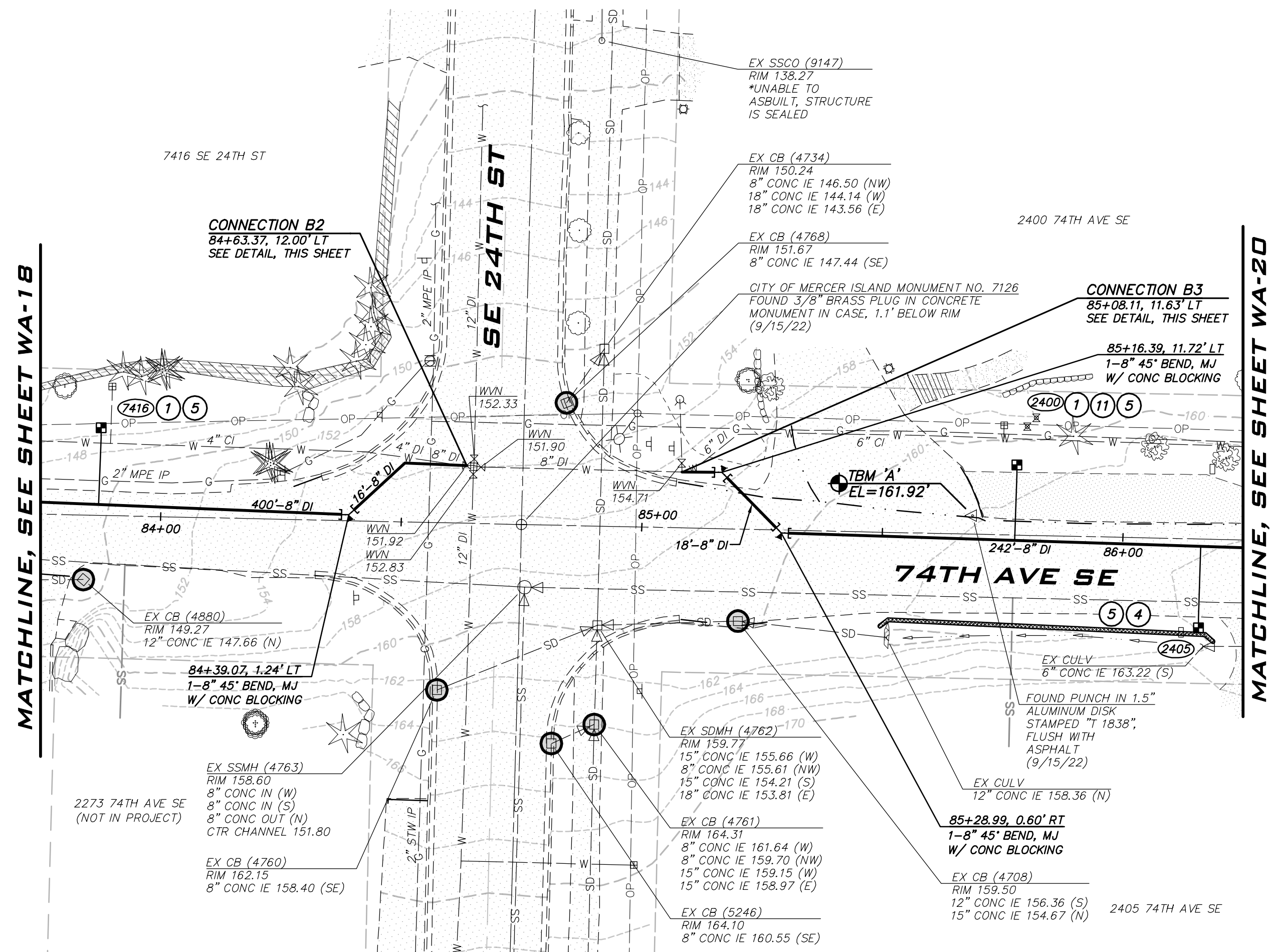


6/9/23
 JOB NUMBER: 22-229
 SHEET NAME: WA-18
 SHT 33 OF 68



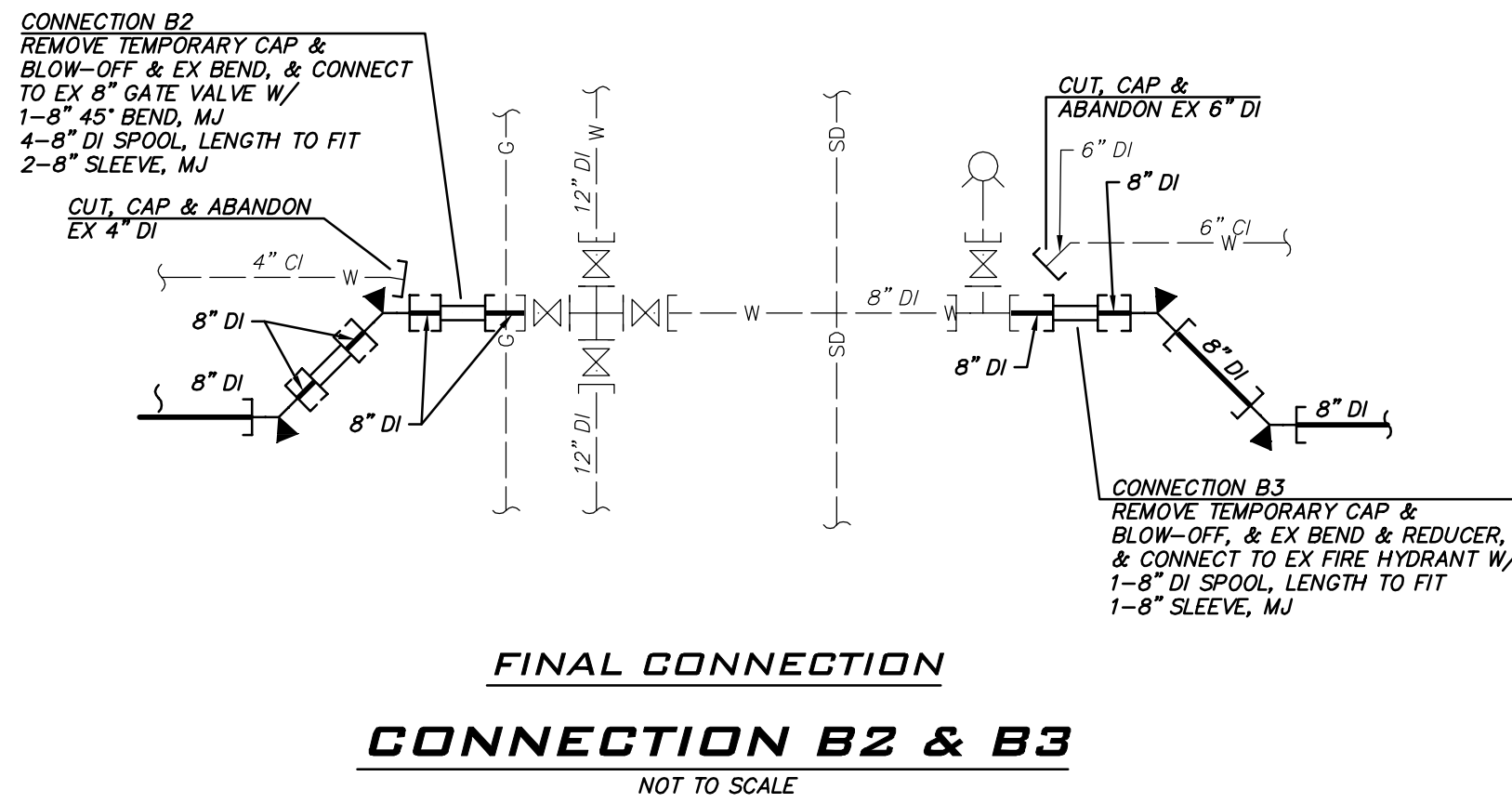
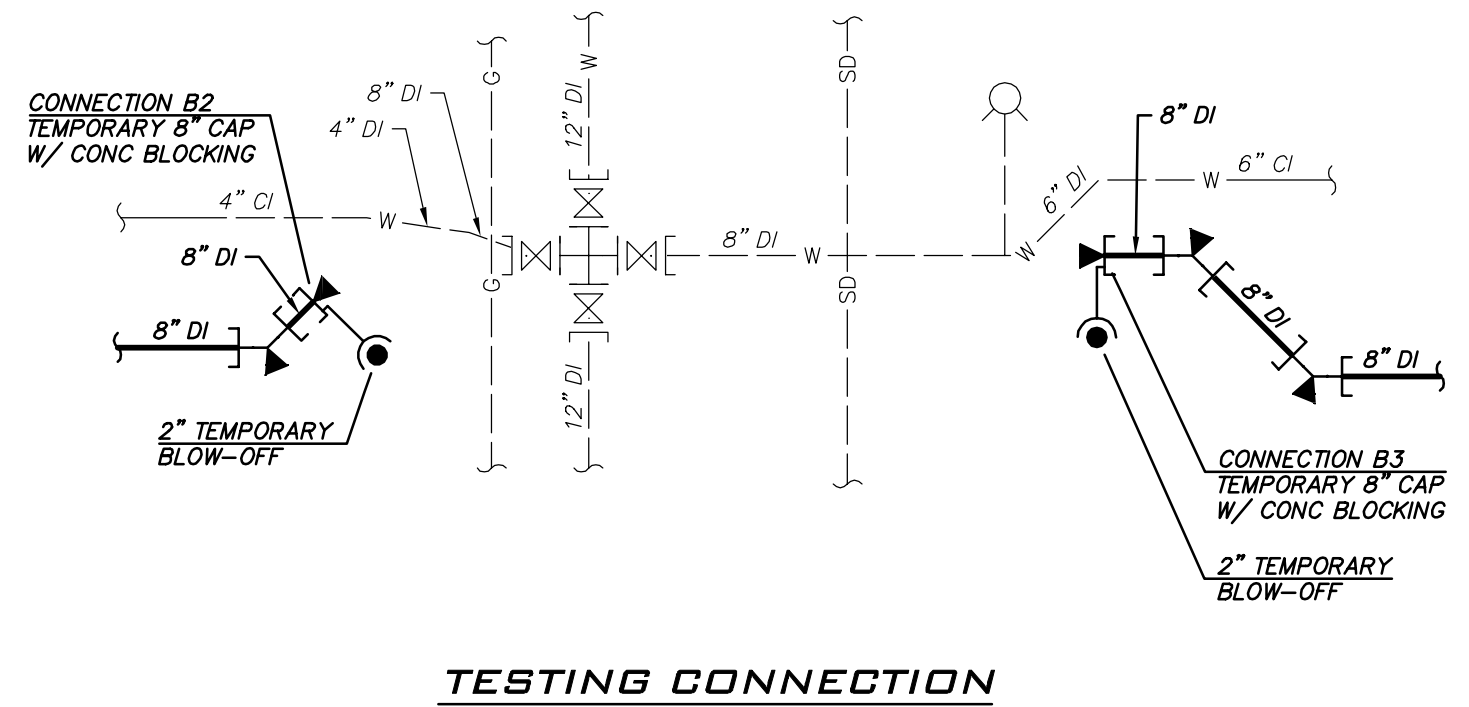
25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
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SCALE:
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PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023



MATCHLINE, SEE SHEET WA-18

MATCHLINE, SEE SHEET WA-20



CONSTRUCTION NOTES

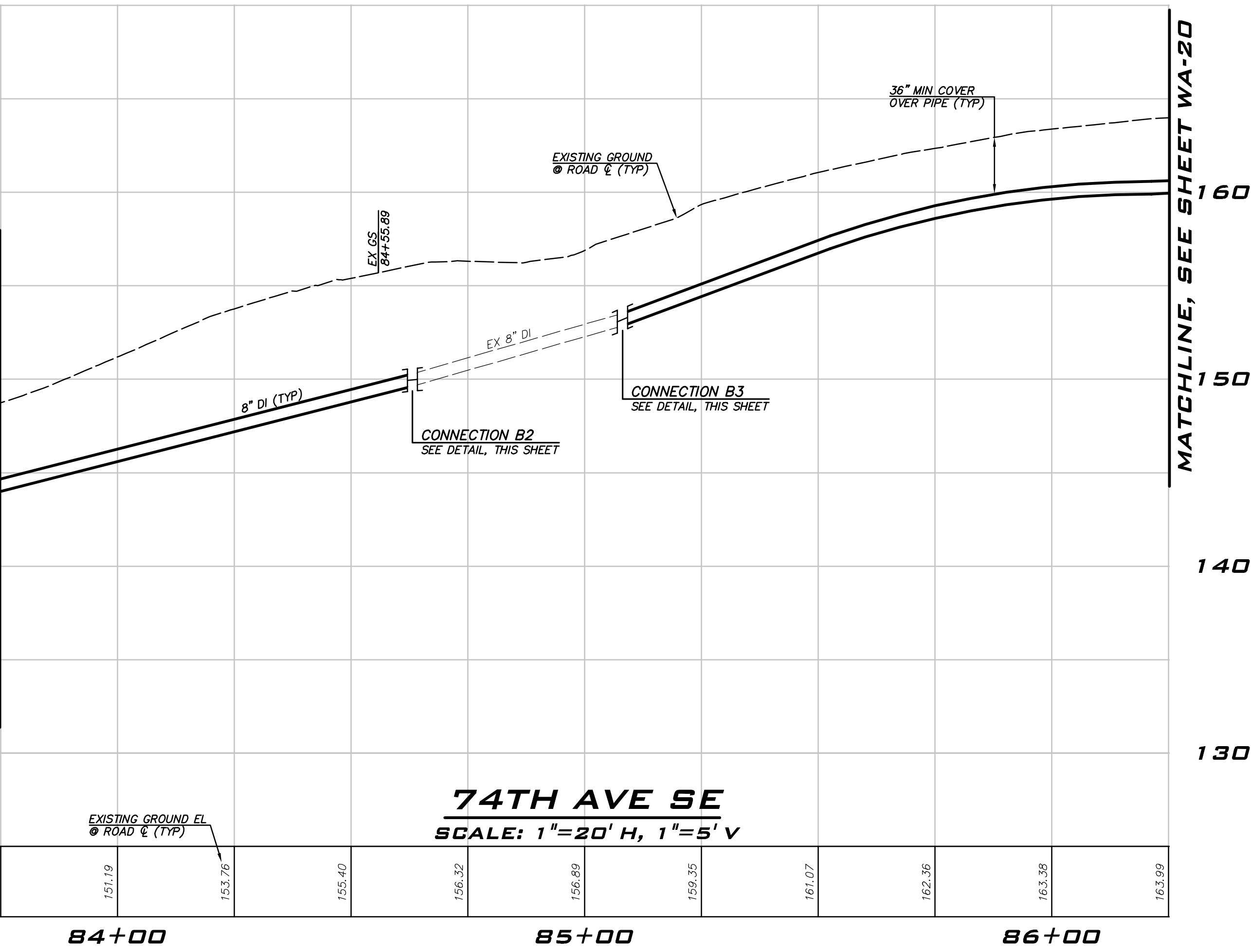
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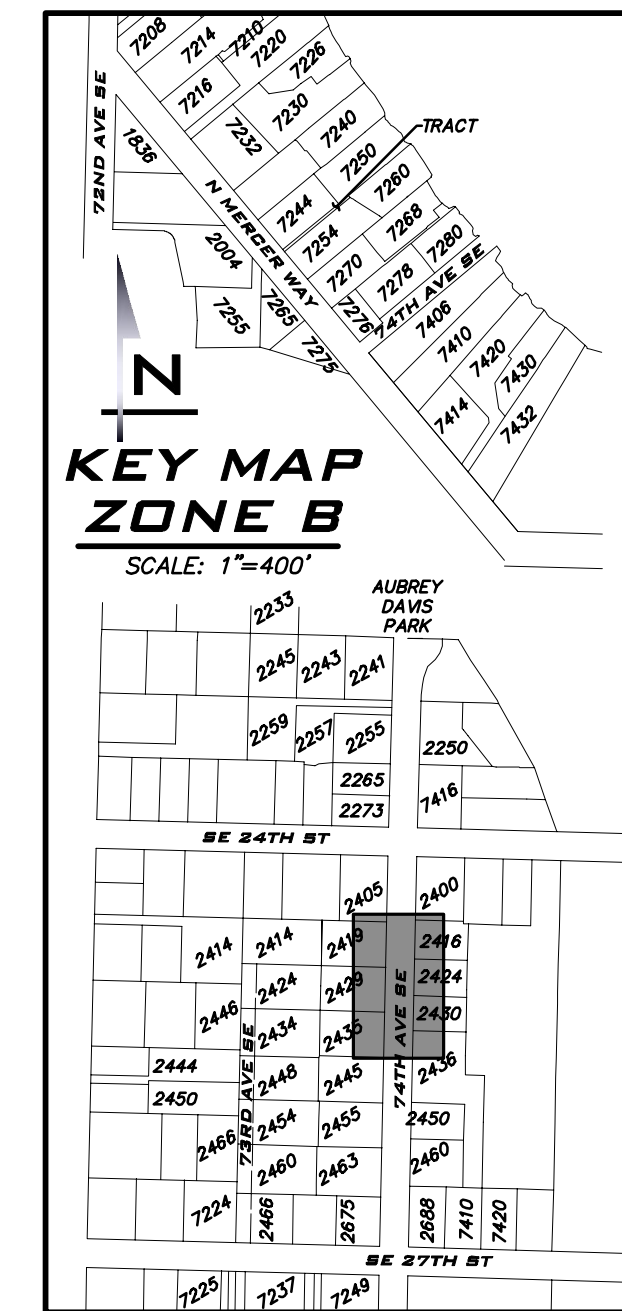
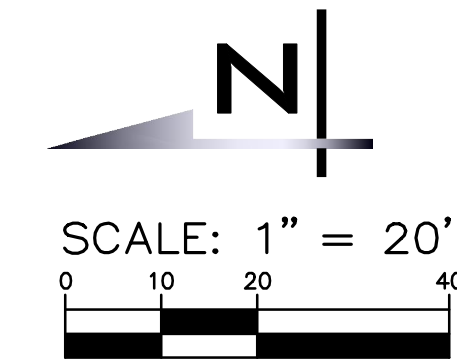
MATCHLINE, SEE SHEET WA-18

MATCHLINE, SEE SHEET WA-20

WATER PLAN - 74TH AVE SE -
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CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
WA-19



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
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SCALE:
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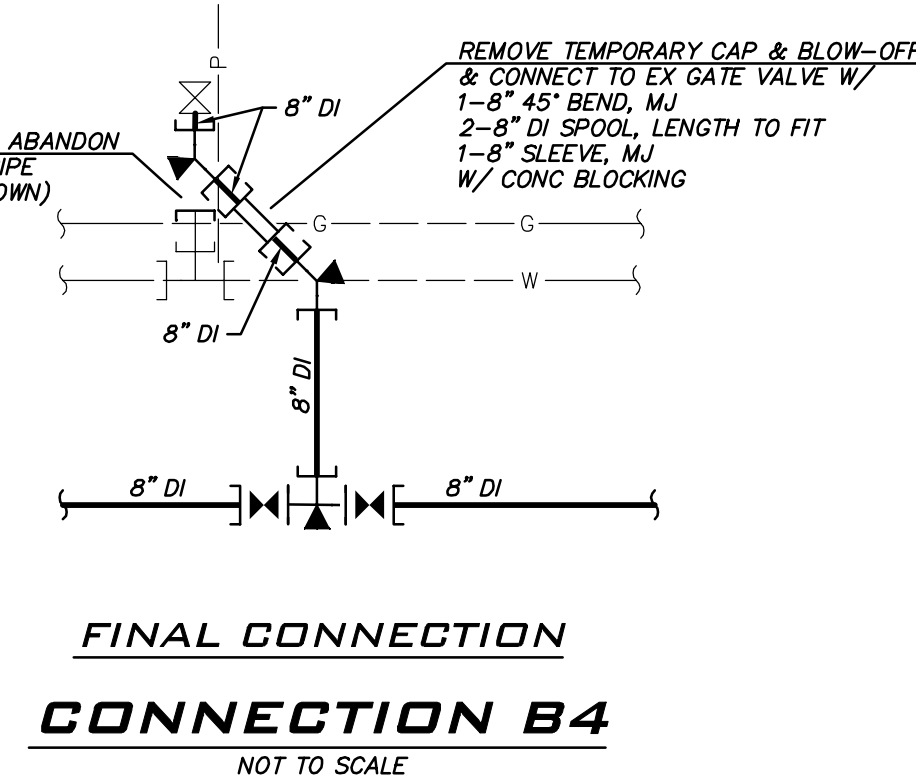
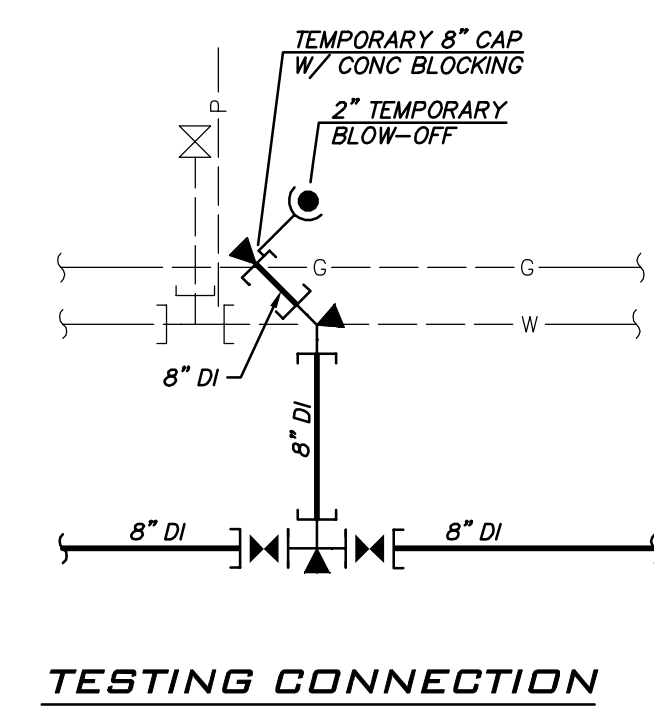
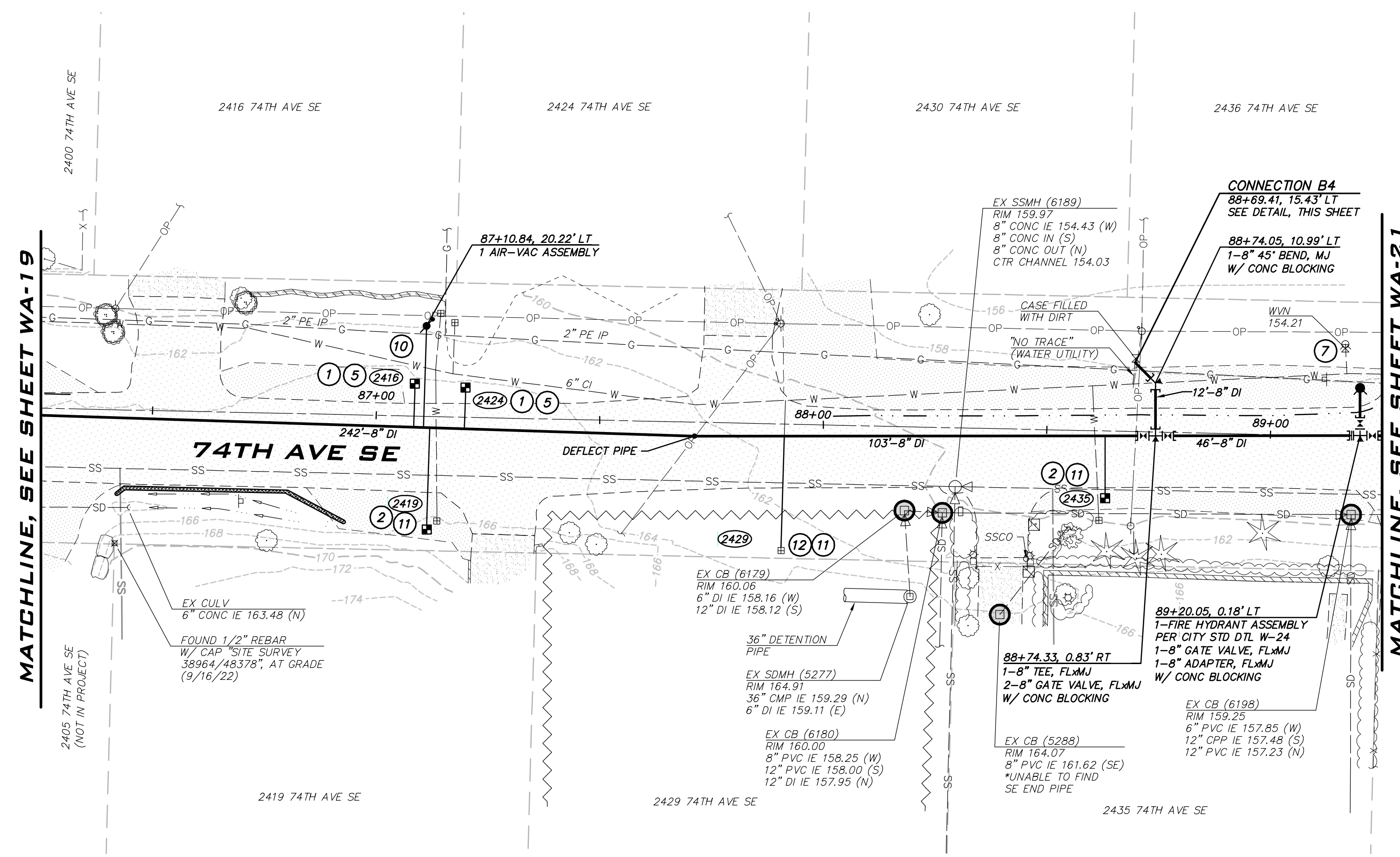
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NO	DATE	BY	REVISIONS



CONSTRUCTION NOTES

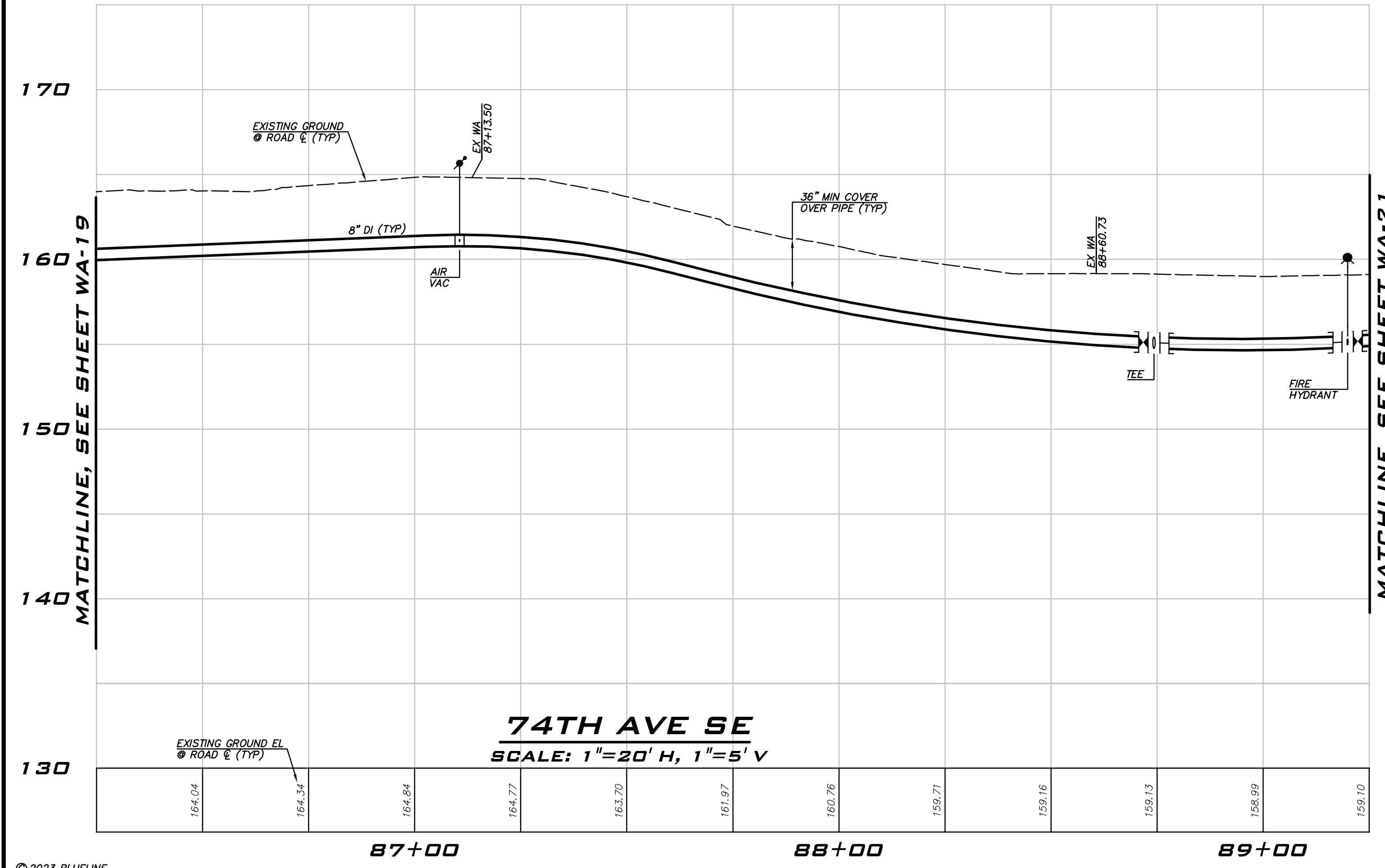
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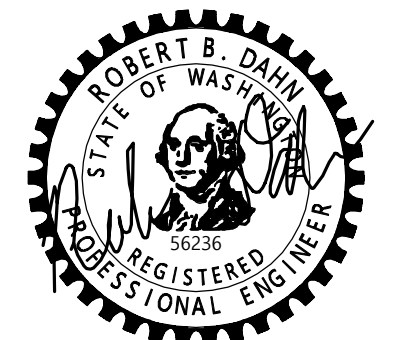
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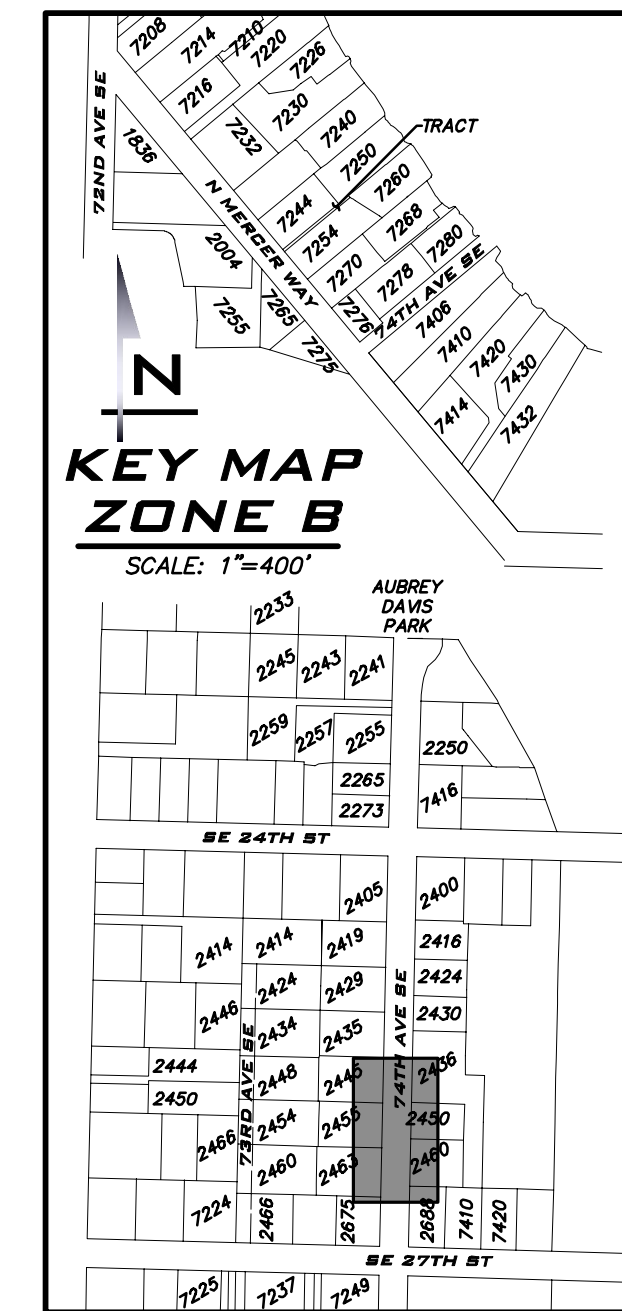
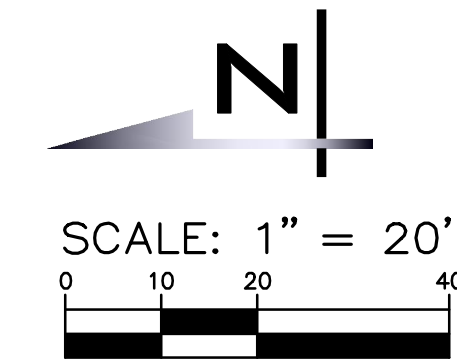
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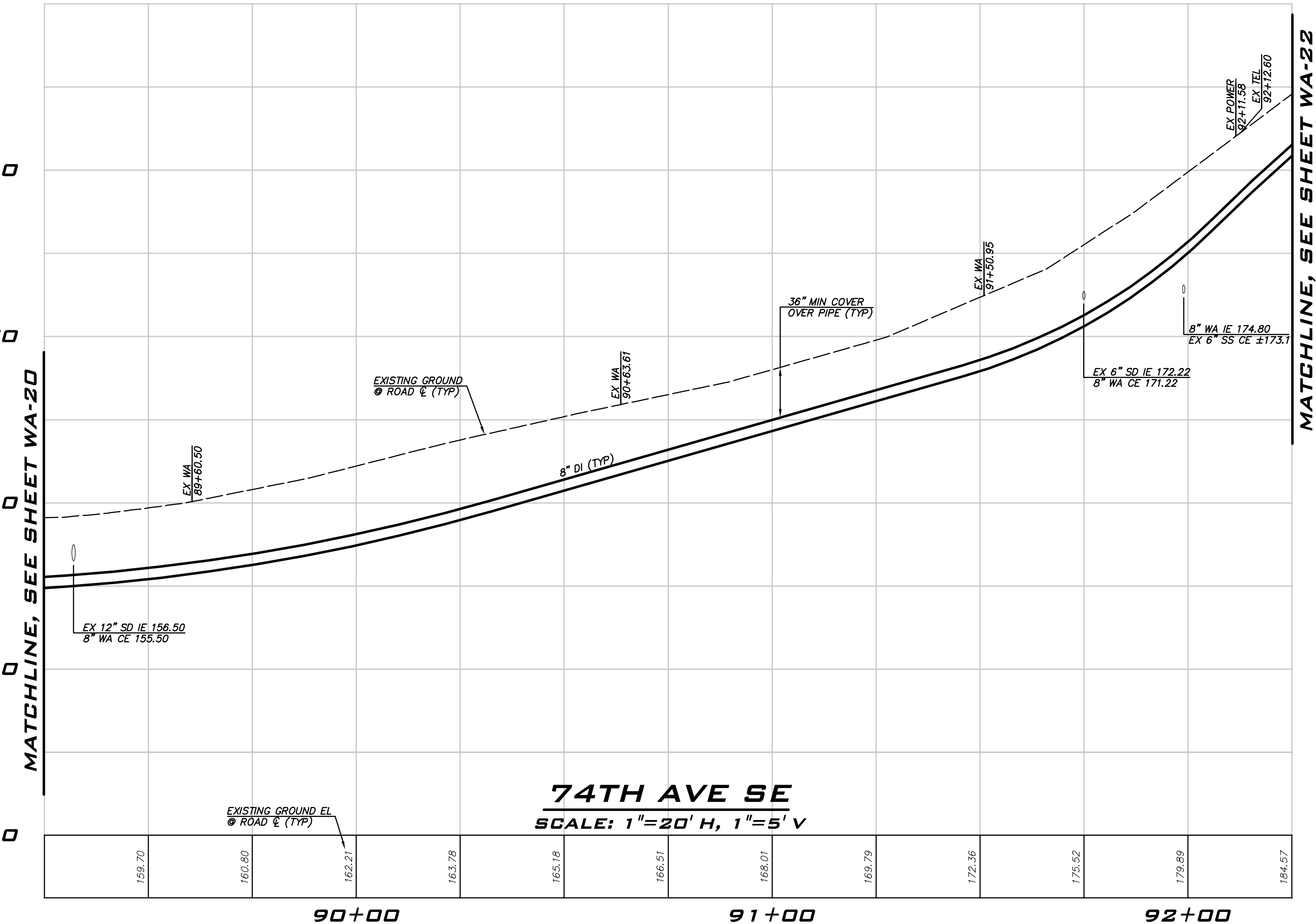
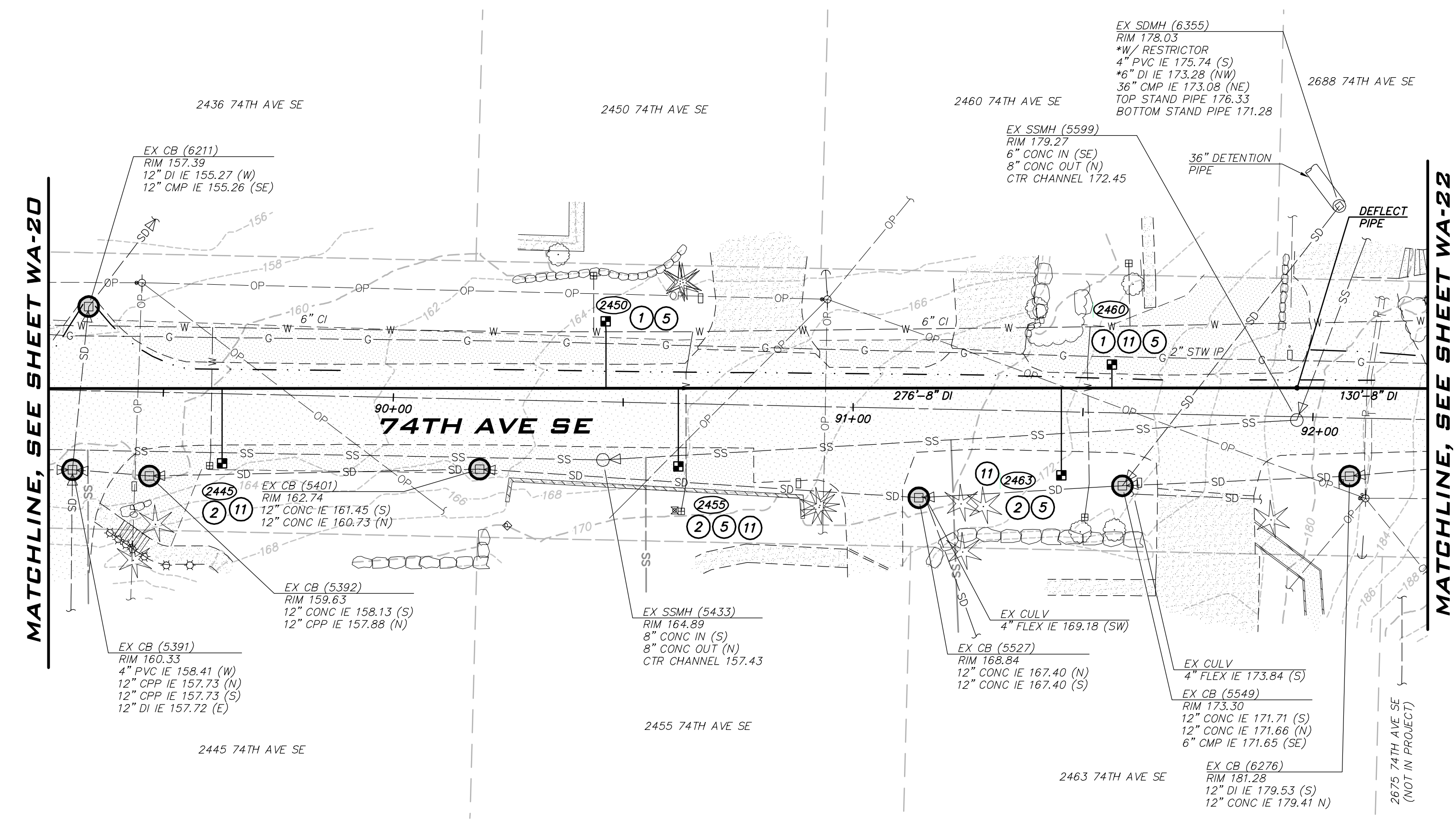
WATER PLAN - 74TH AVE SE -
ZONE B
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERGER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
WA-20



SCALE: AS NOTED
 PROJECT MANAGER: ROB DAHN, PE
 PROJECT ENGINEER: GRACE GARWIN, EIT
 DESIGNER: CAROL DOGGETT
 ISSUE DATE: 6/9/2023



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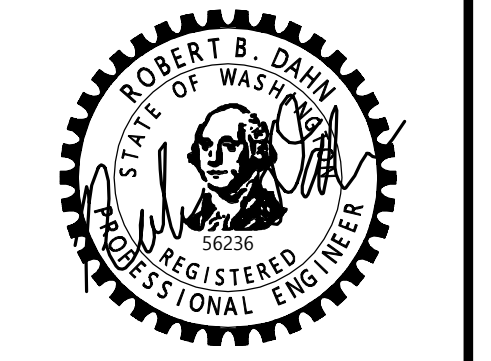
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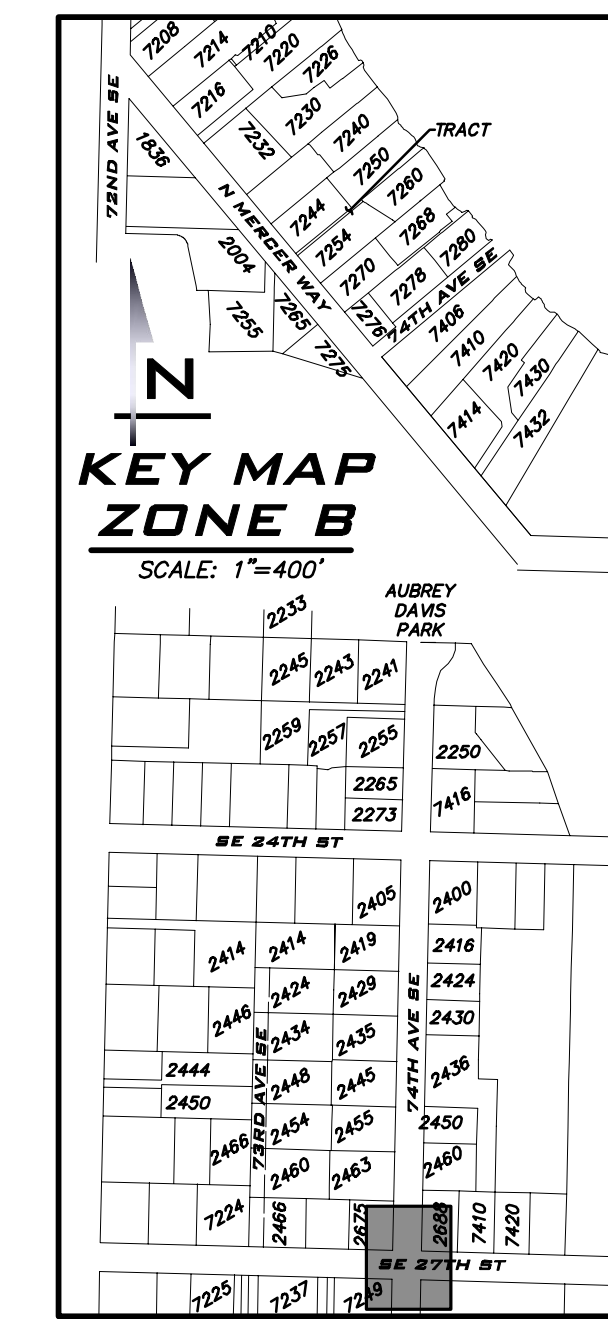
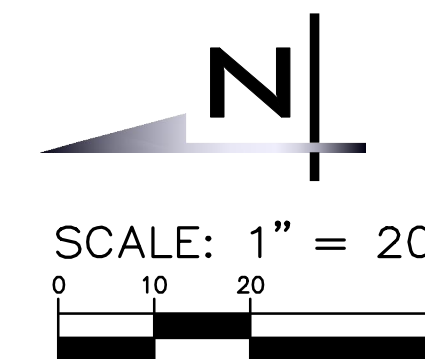
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WATER PLAN - 74TH AVE SE - ZONE B
 2023 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

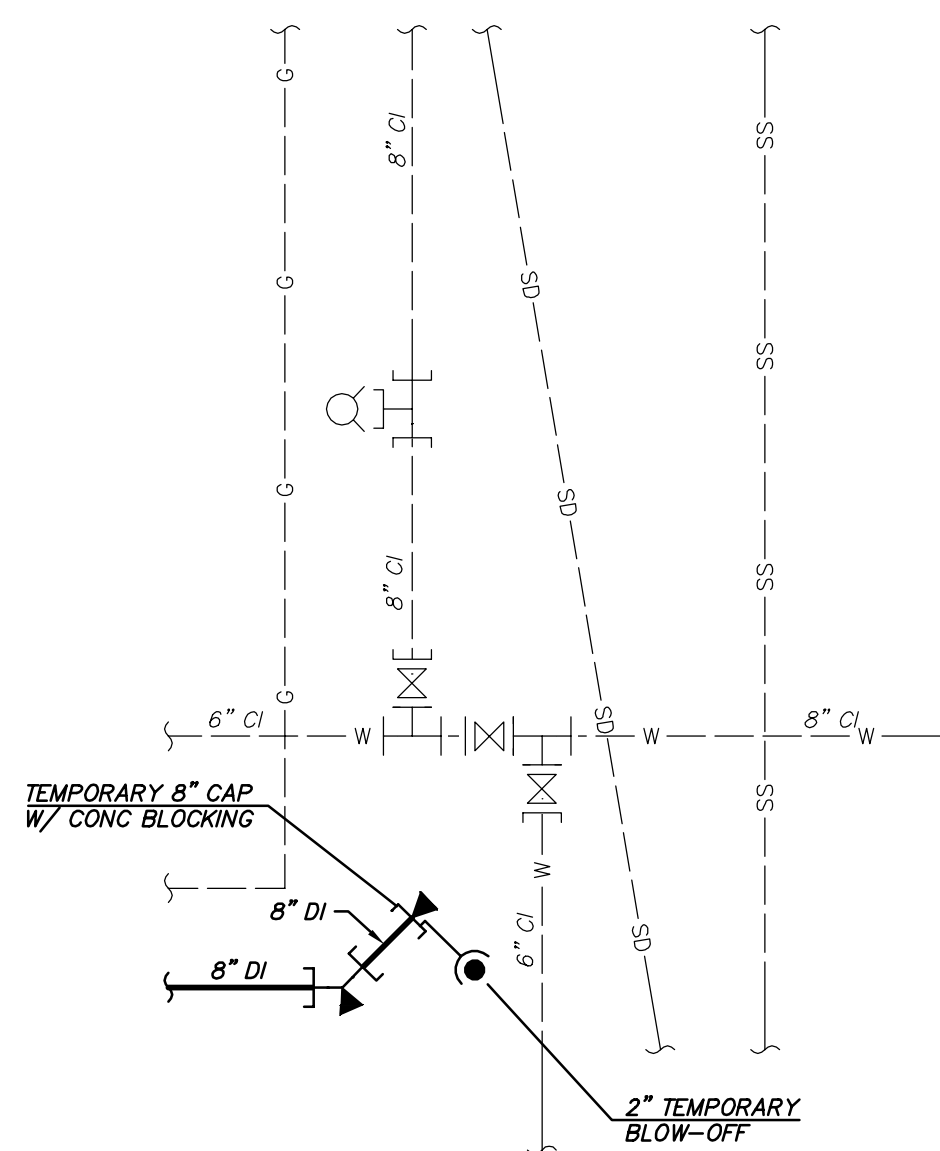
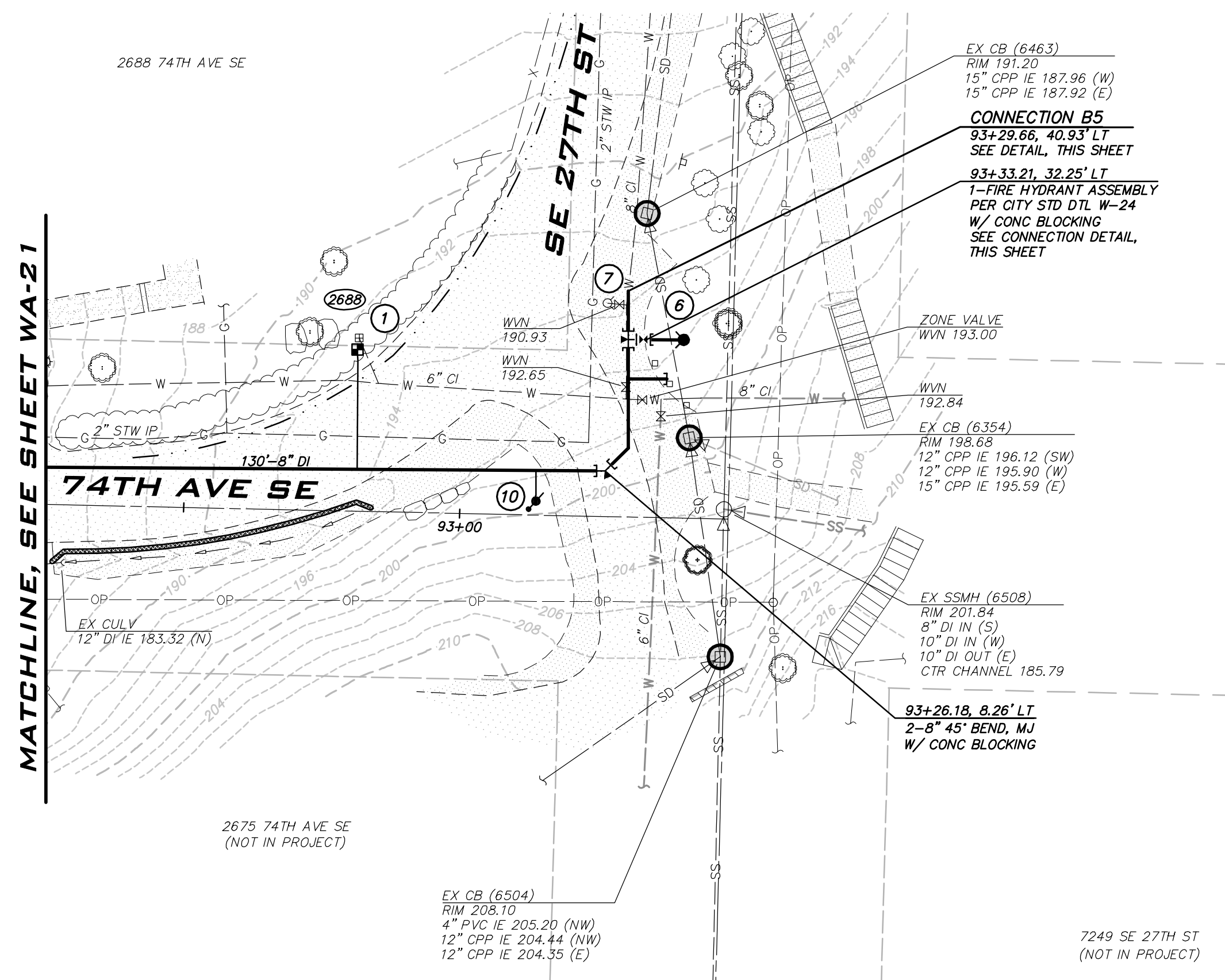


6/9/23
 JOB NUMBER: 22-229
 SHEET NAME: WA-21
 SHT 36 OF 68



BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P: 425.216.4051 F: 425.216.4052
 WWW.THEBLUENELINEGROUP.COM

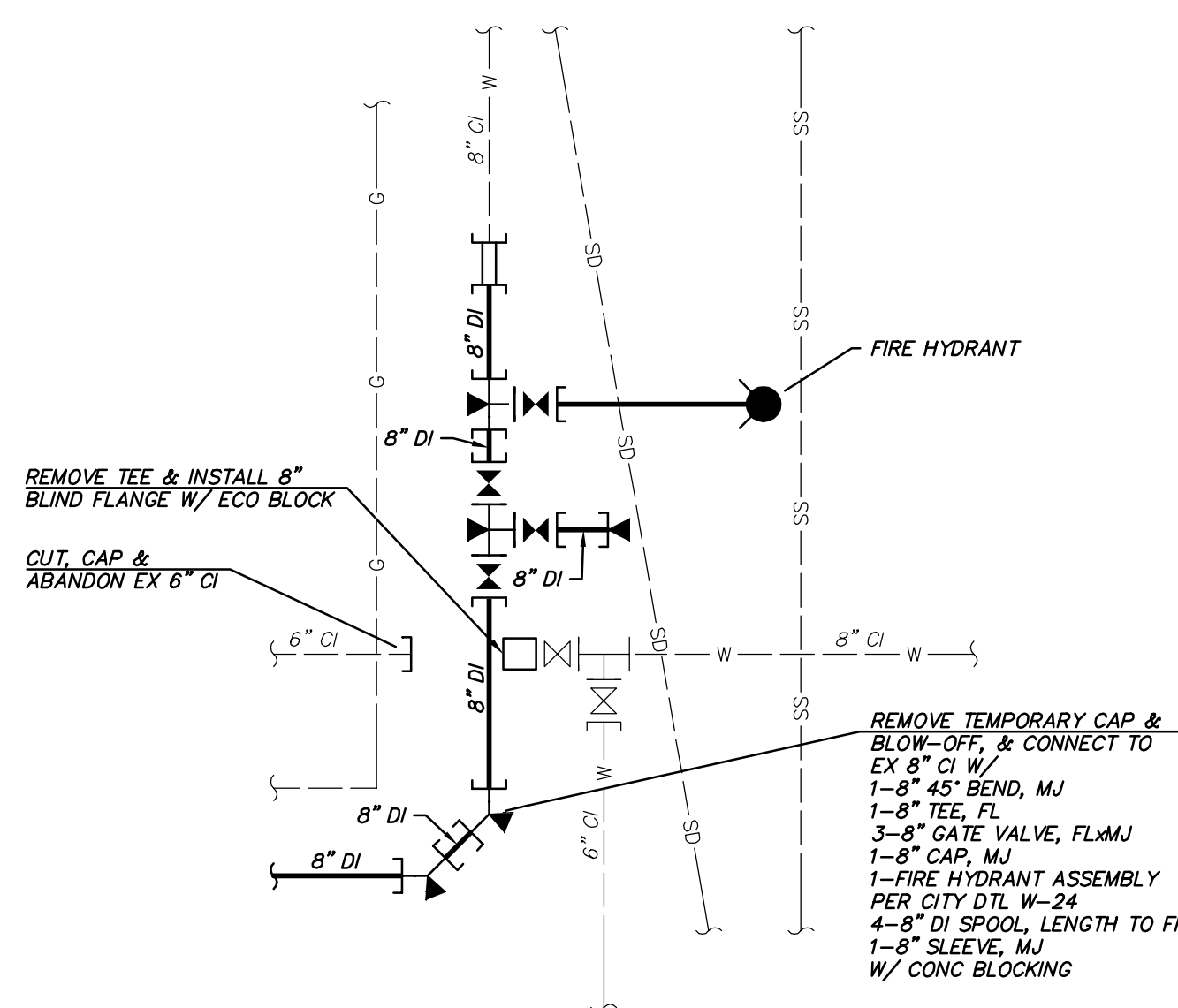
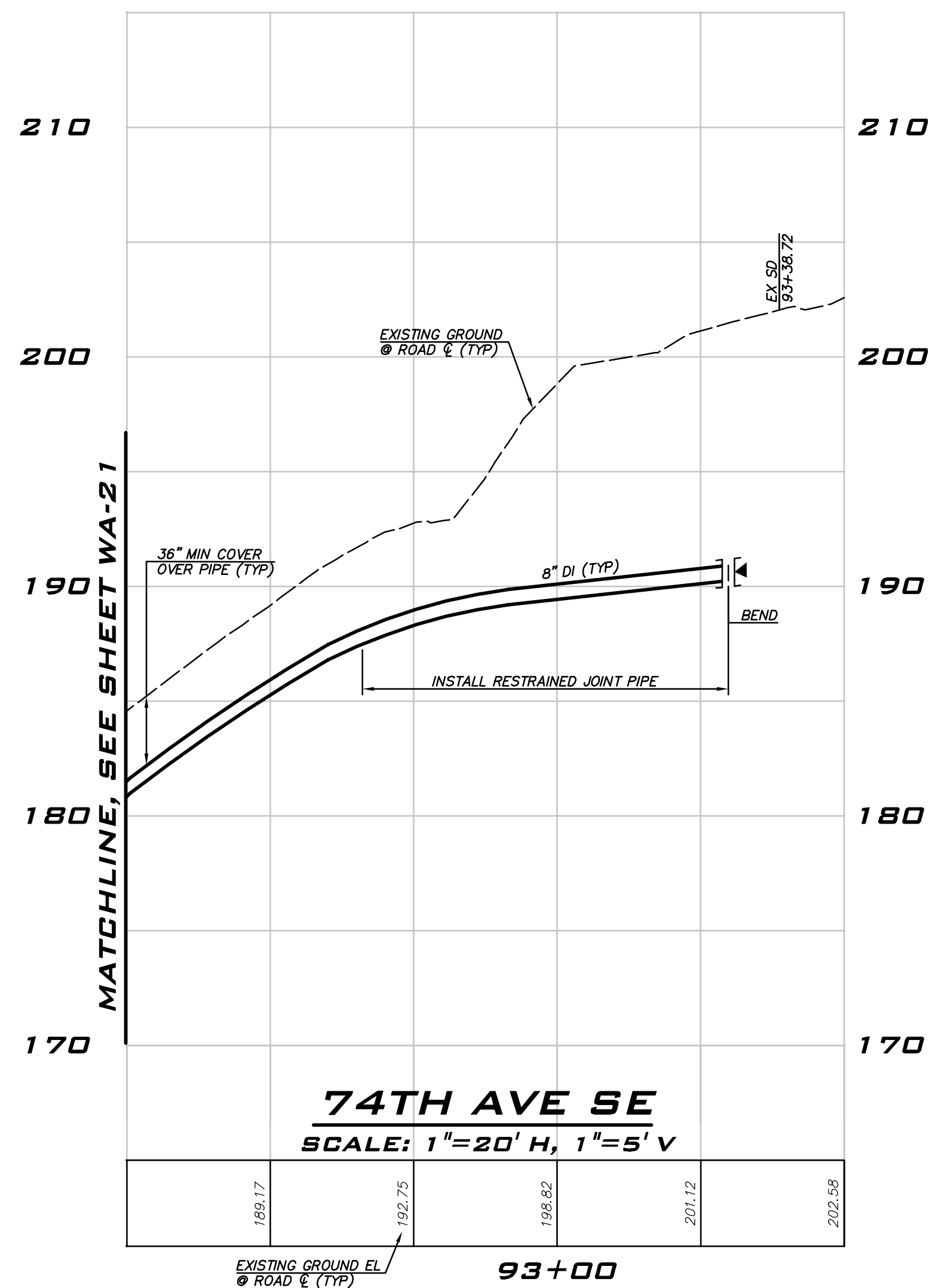
SCALE: AS NOTED
 PROJECT MANAGER:
 ROB DAHN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
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TESTING CONNECTION

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FINAL CONNECTION CONNECTION B5

NOT TO SCALE

FIRE HYDRANT ASSEMBLY INCLUDING VALVE WILL BE PAID UNDER "INSTALL NEW FIRE HYDRANT ASSEMBLY" BID ITEM.

NOTE

ALL FITTINGS AND PIPE INSTALLED DURING CONNECTION MUST BE RESTRAINED.

NOTES

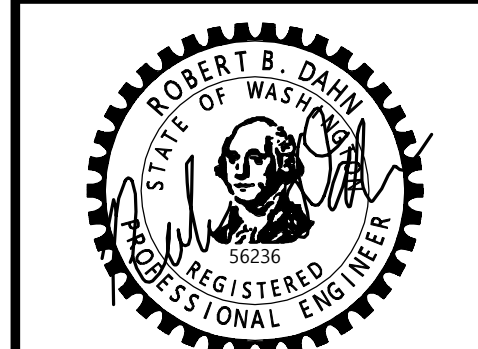
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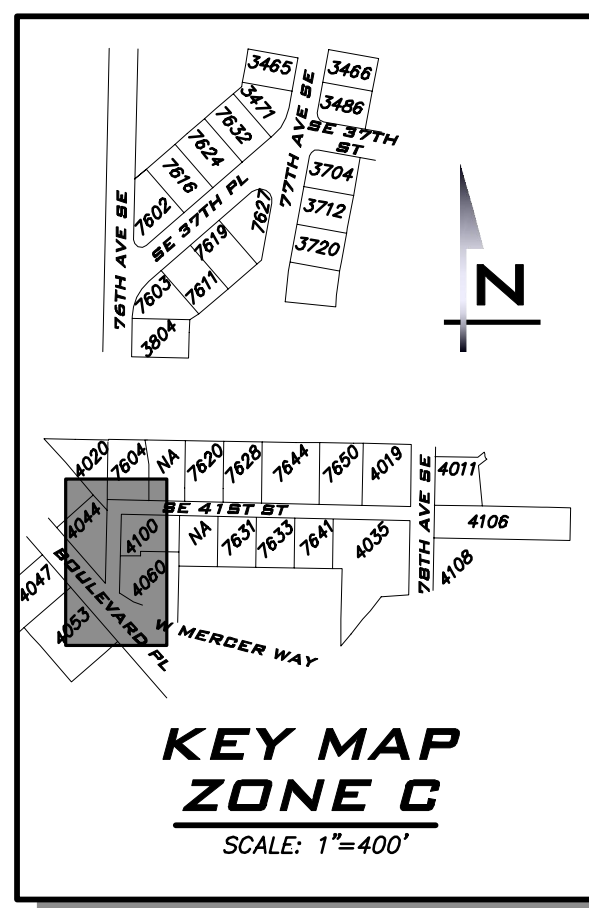
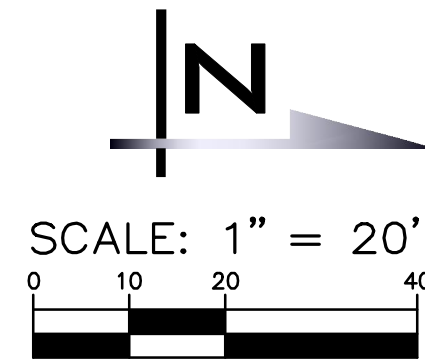
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WATER PLAN - 74TH AVE SE -
 ZONE B
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERGER ISLAND WASHINGTON



6/9/23
 JOB NUMBER:
 22-229
 SHEET NAME:
 WA-22

SEC 1,11,12,13, TWP 24N, RGE 5E, W.M.



BLUELINE

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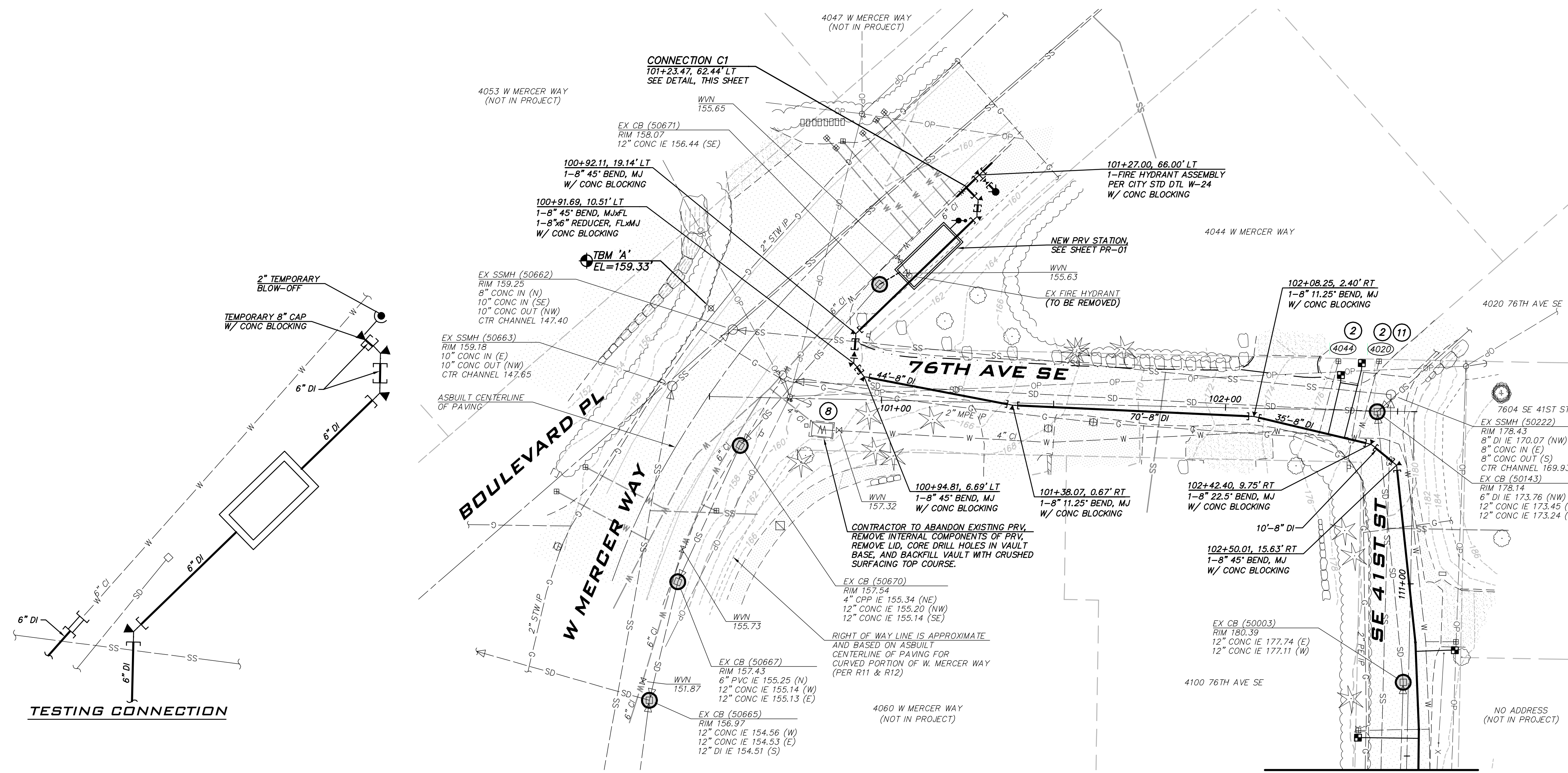
SCALE:
AS NOTED

PROJECT MANAGER:
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GRACE GARWIN, EIT

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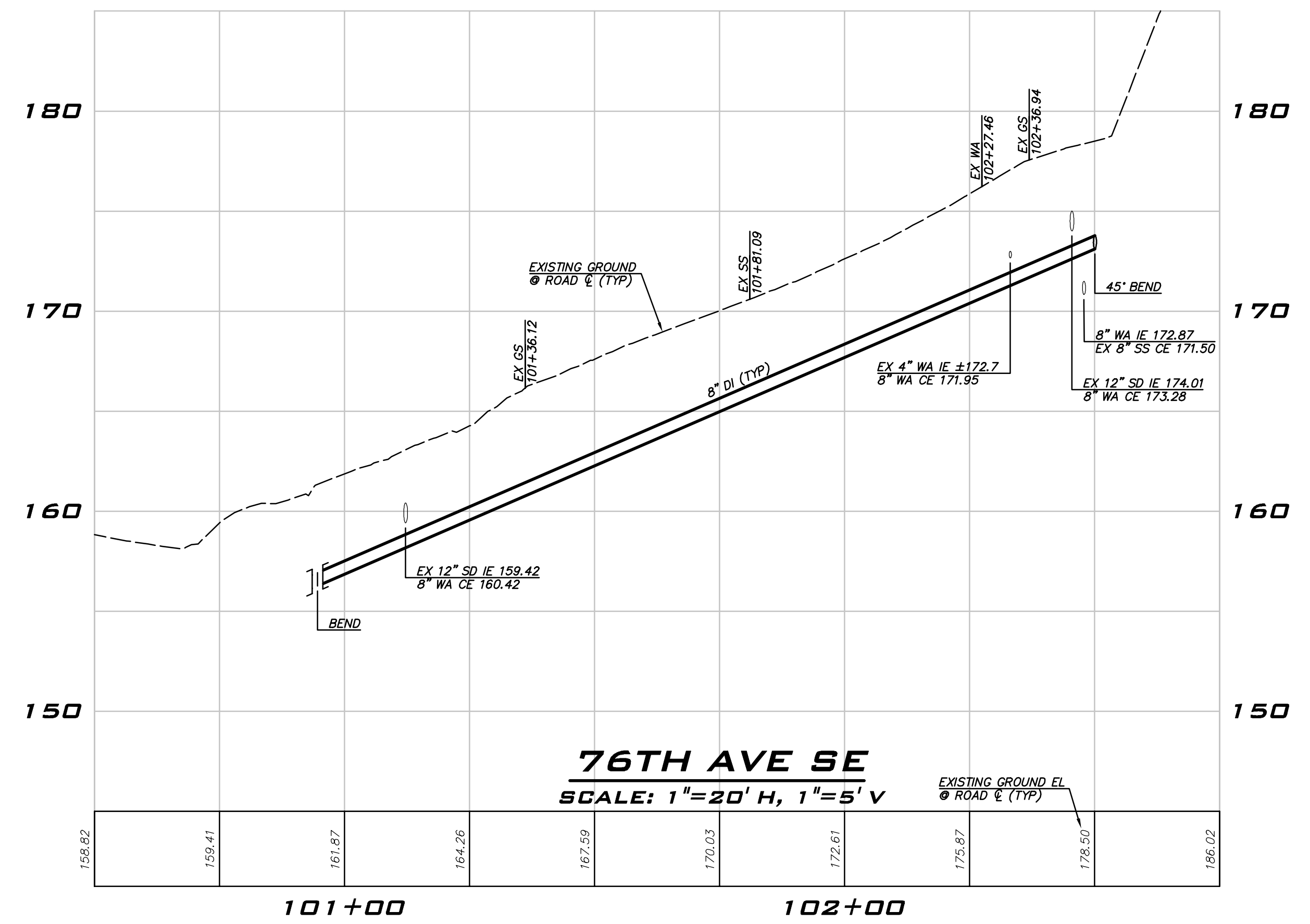
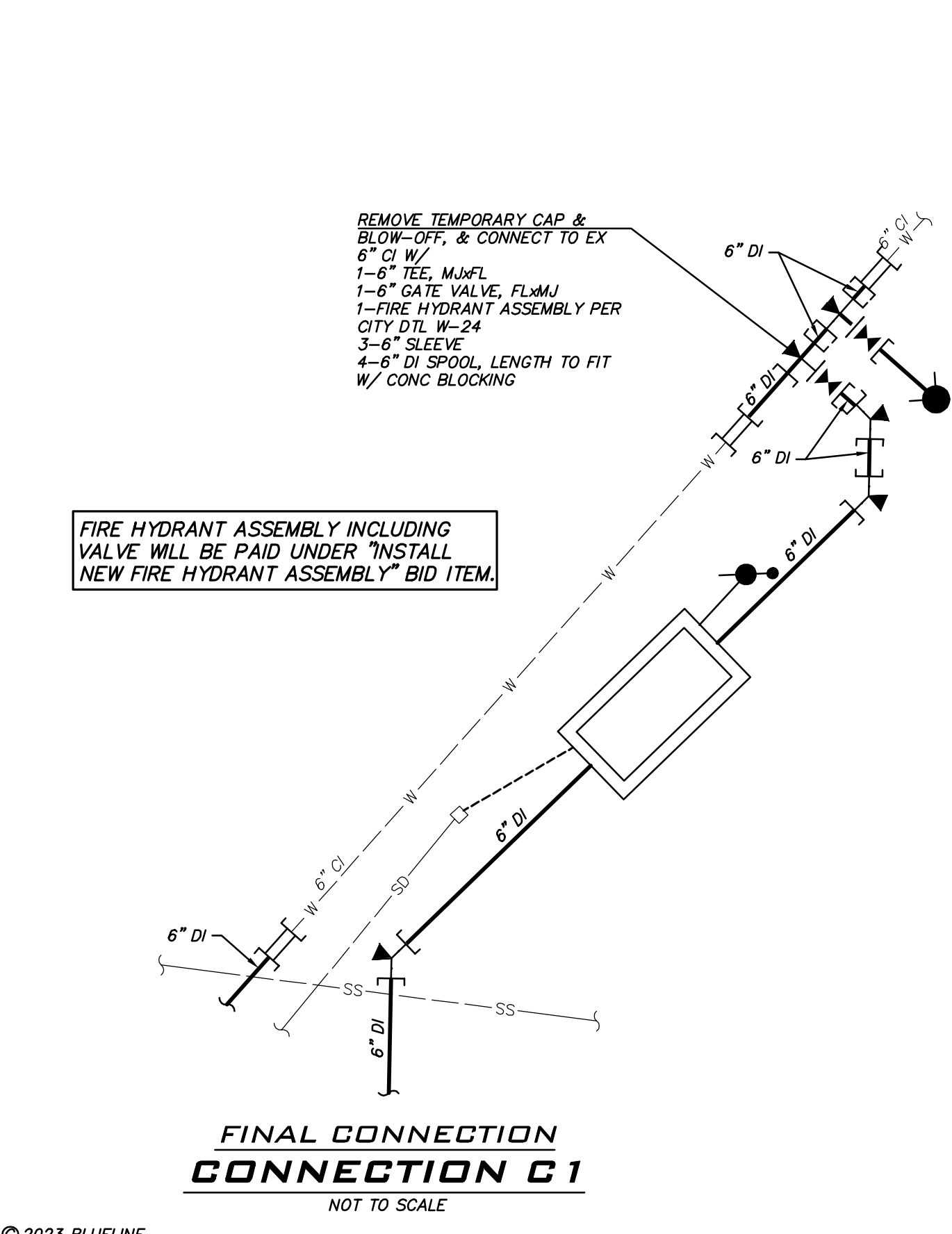


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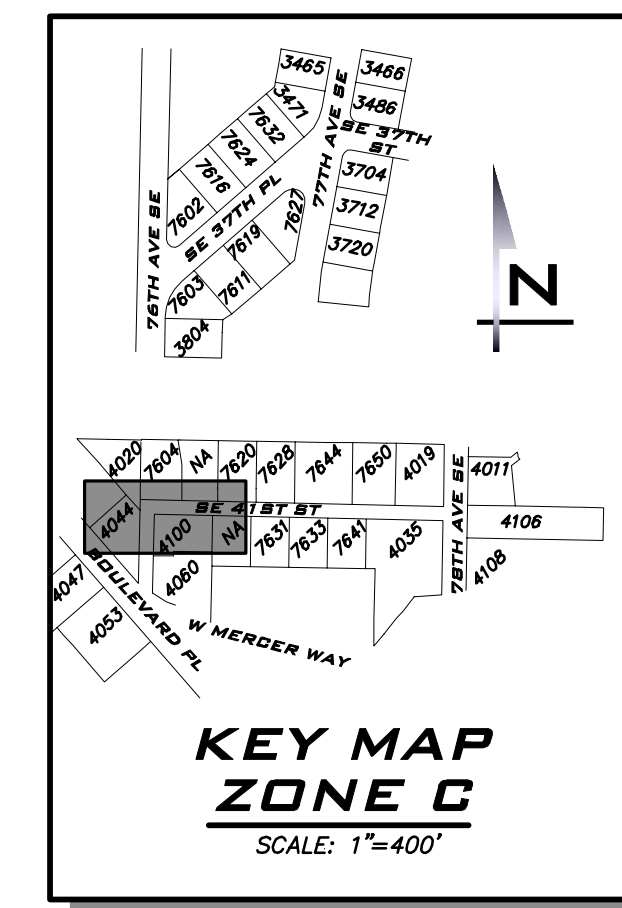
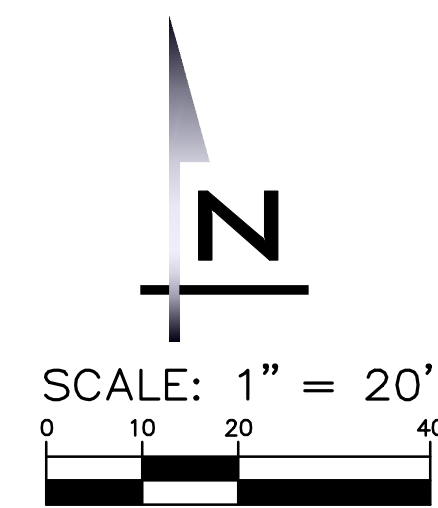
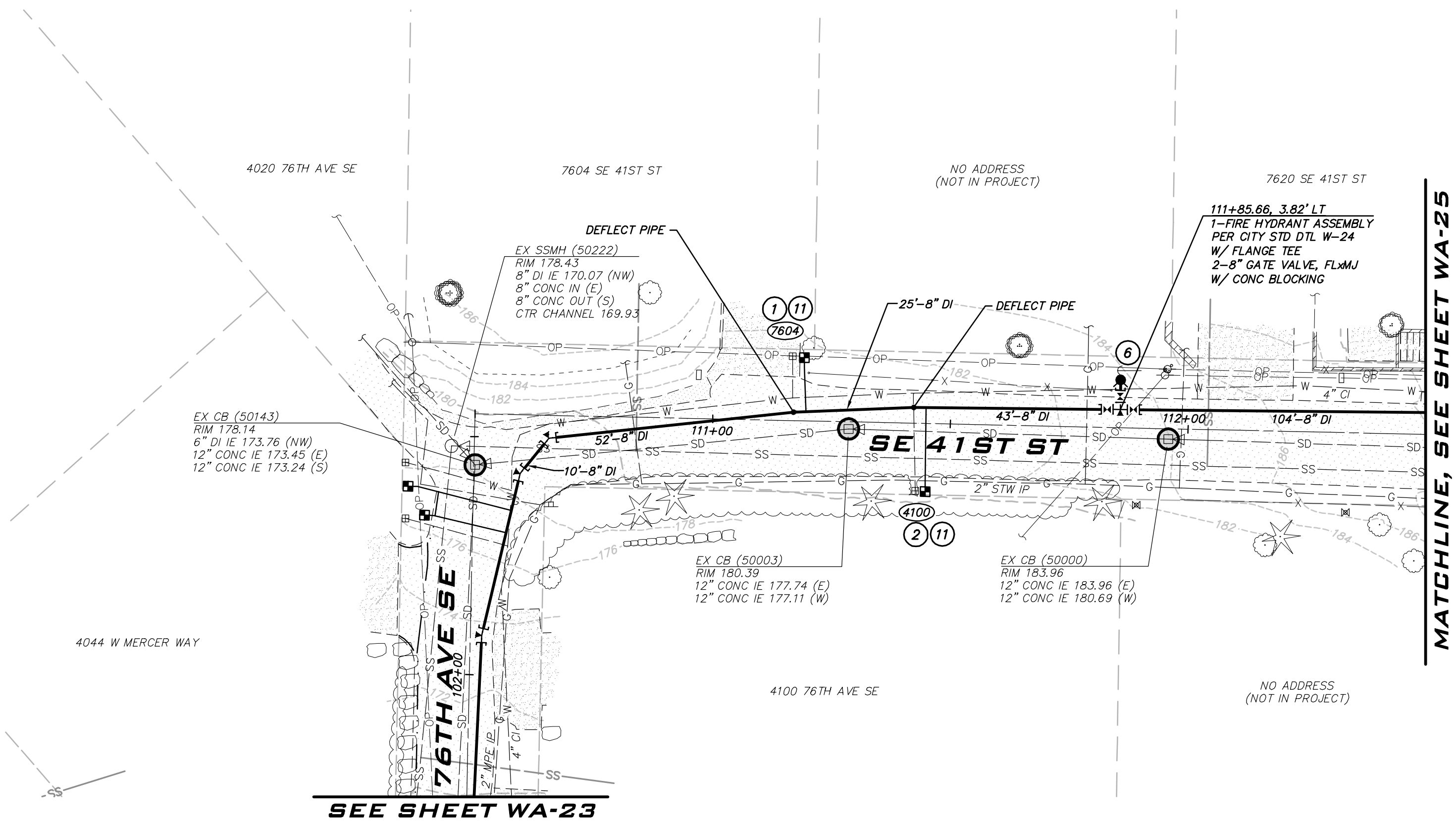
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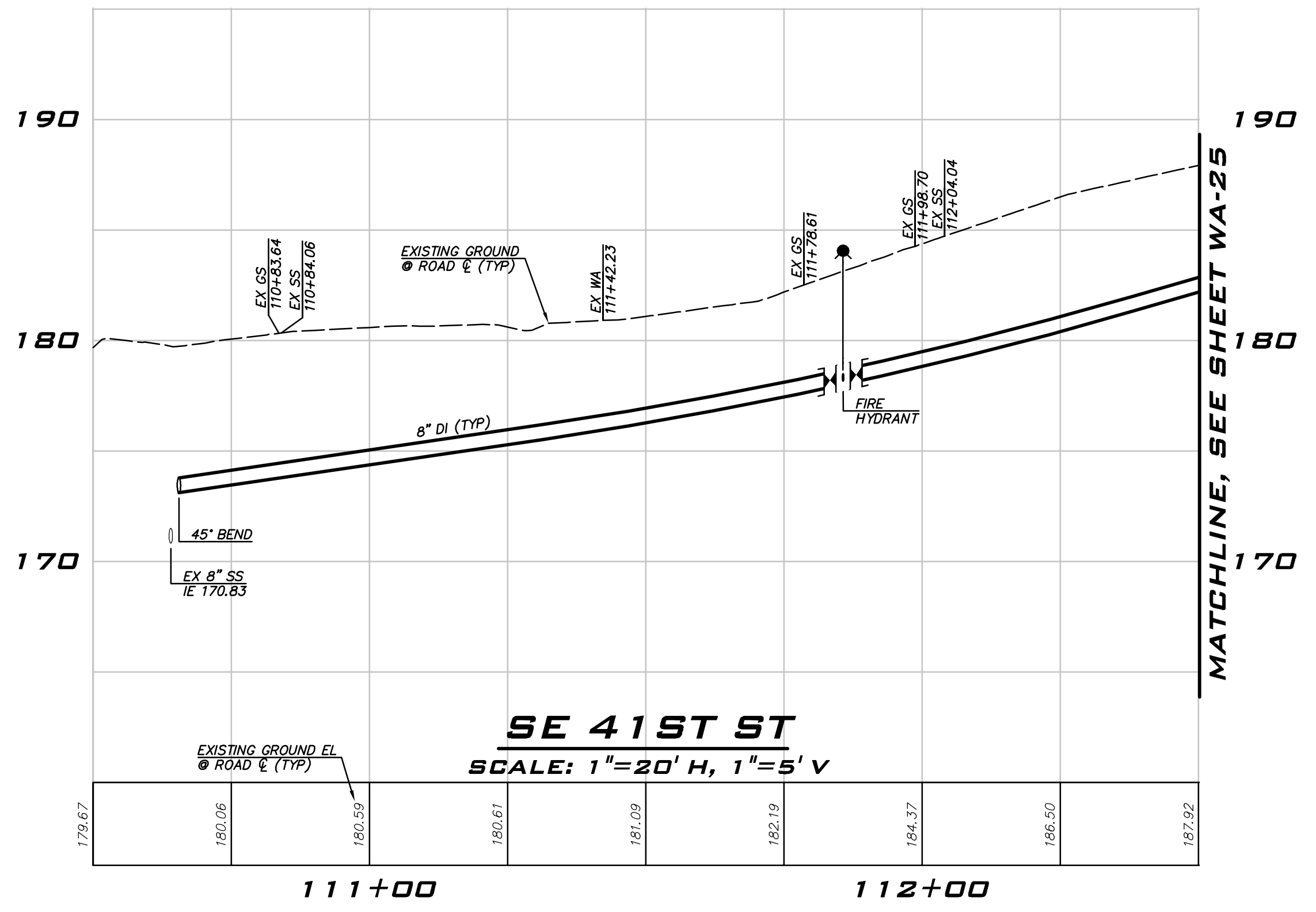
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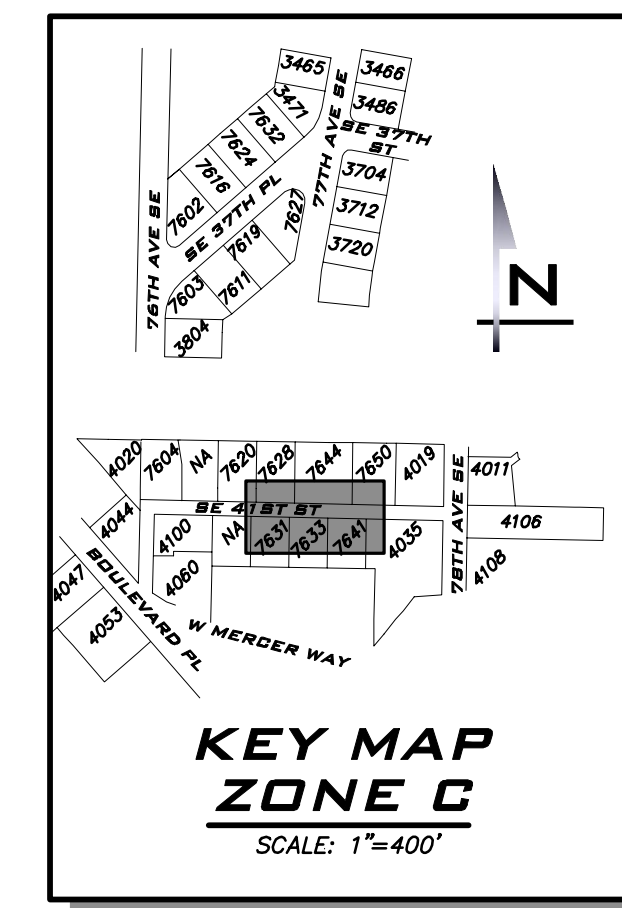
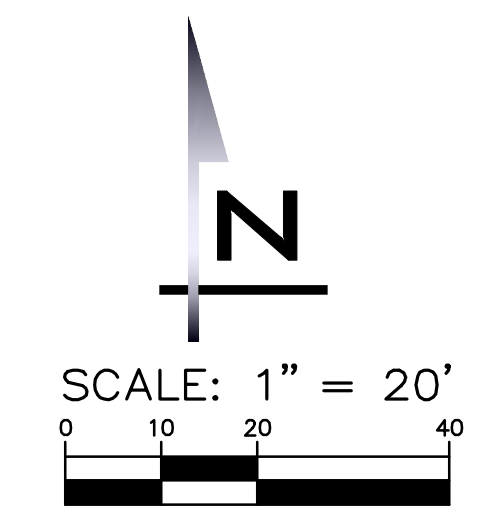
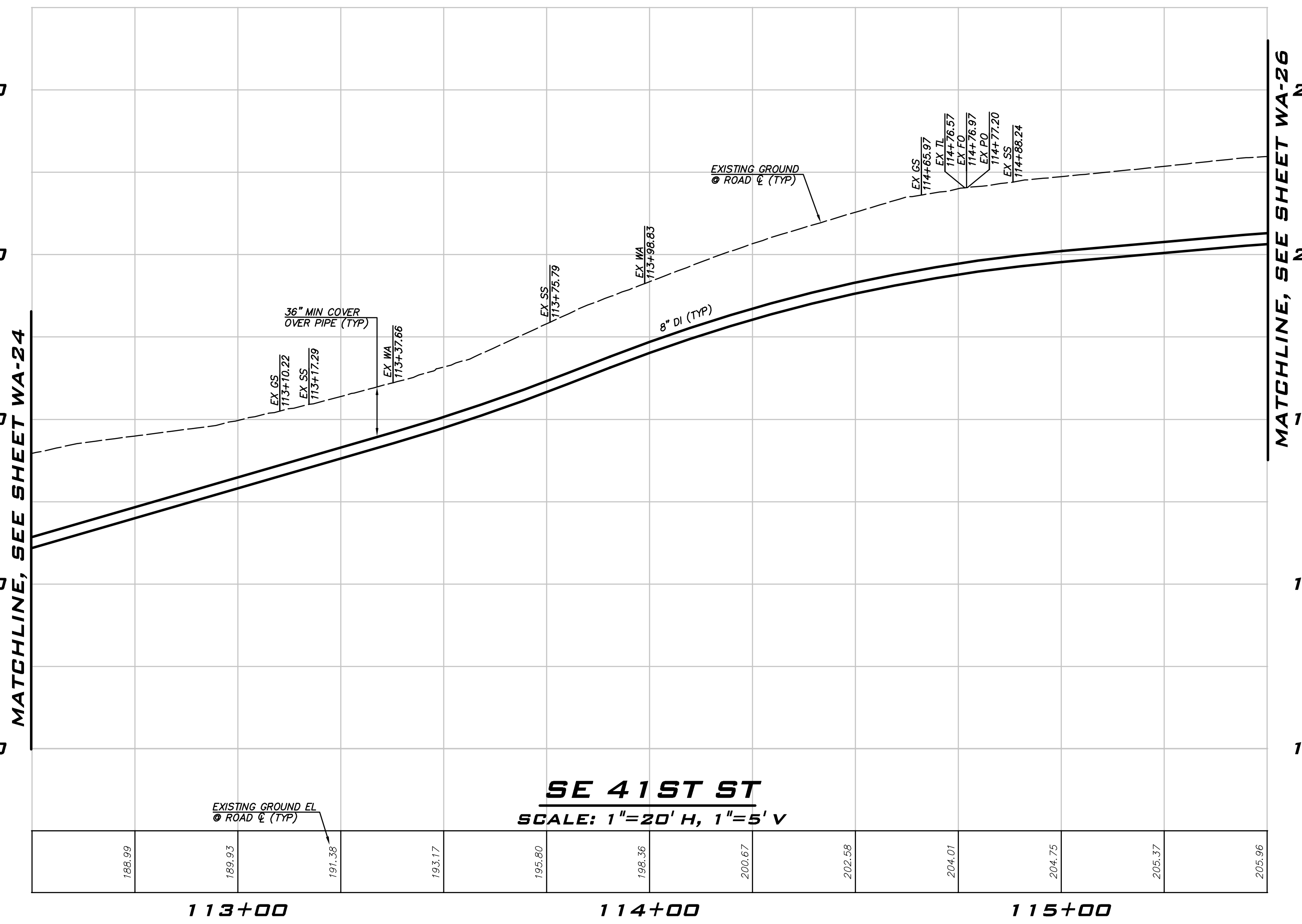
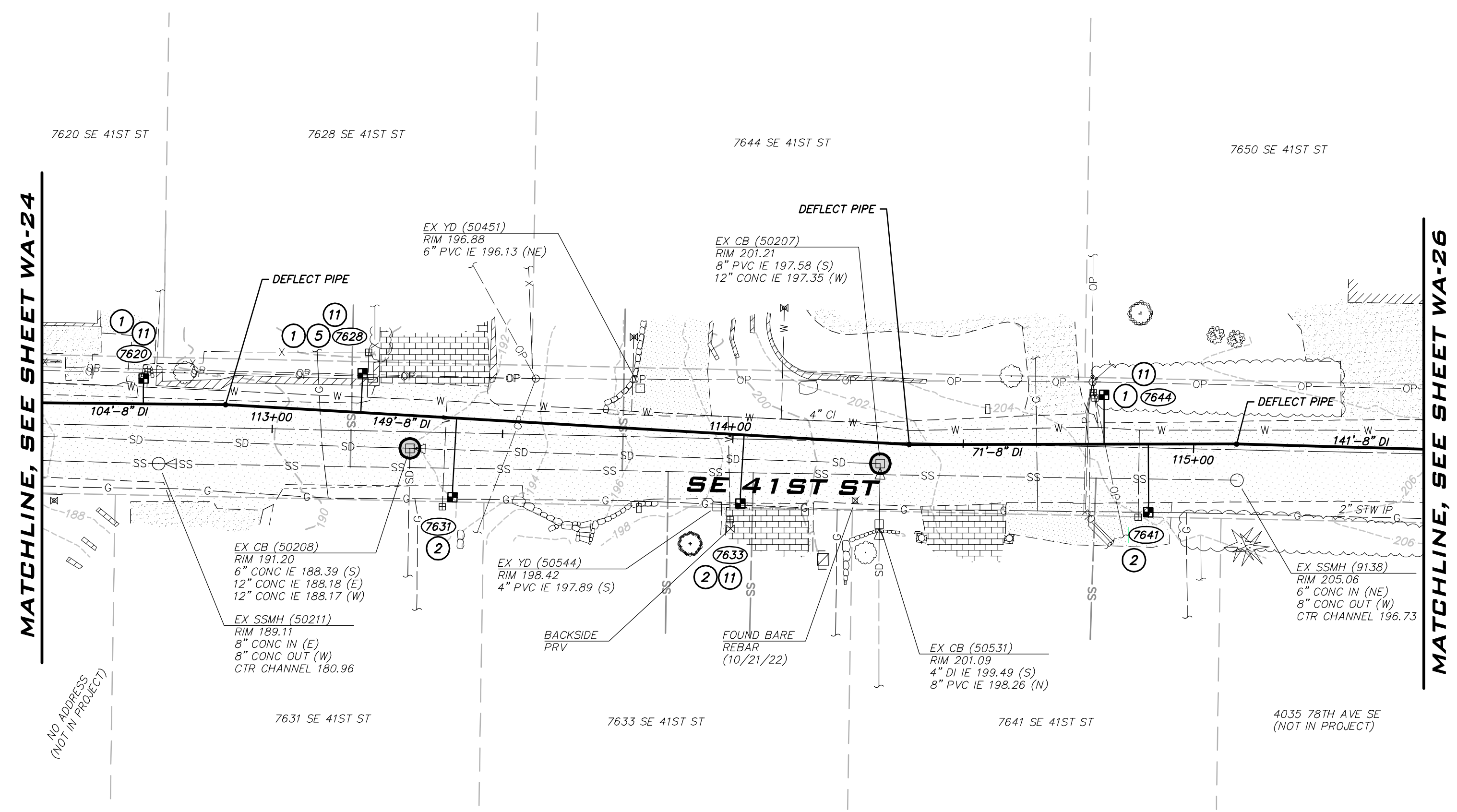
WATER PLAN - SE 41ST ST -
 ZONE C
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

6/9/23

JOB NUMBER:
22-229

SHEET NAME:
WA-24

SHT **39** OF **68**



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

- CONSTRUCTION NOTES**
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
 - MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
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- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10)
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 - REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
 - EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1" BELOW GRADE, REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
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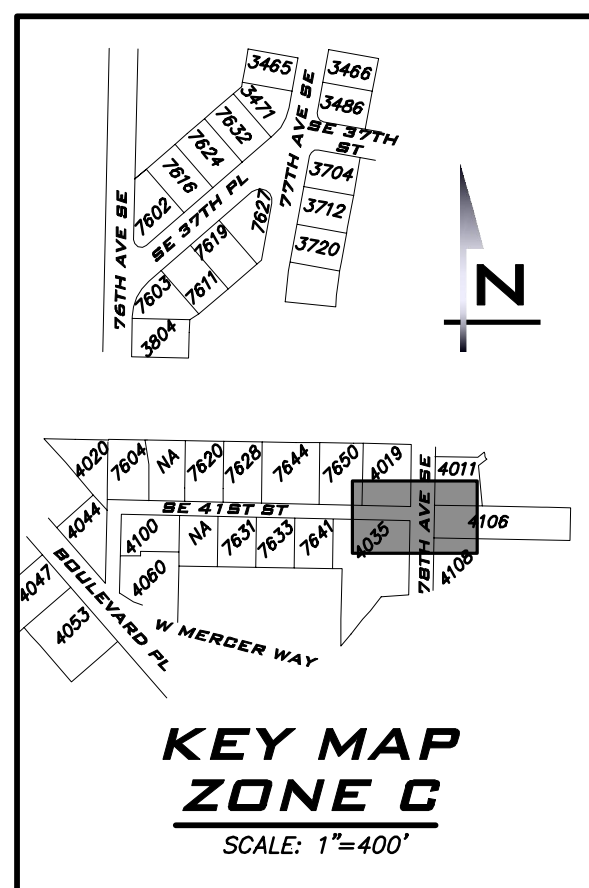
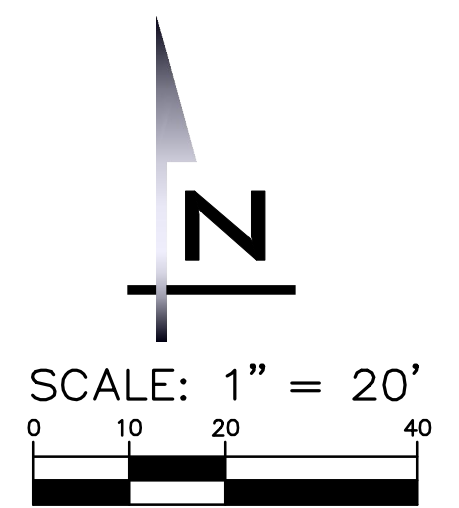
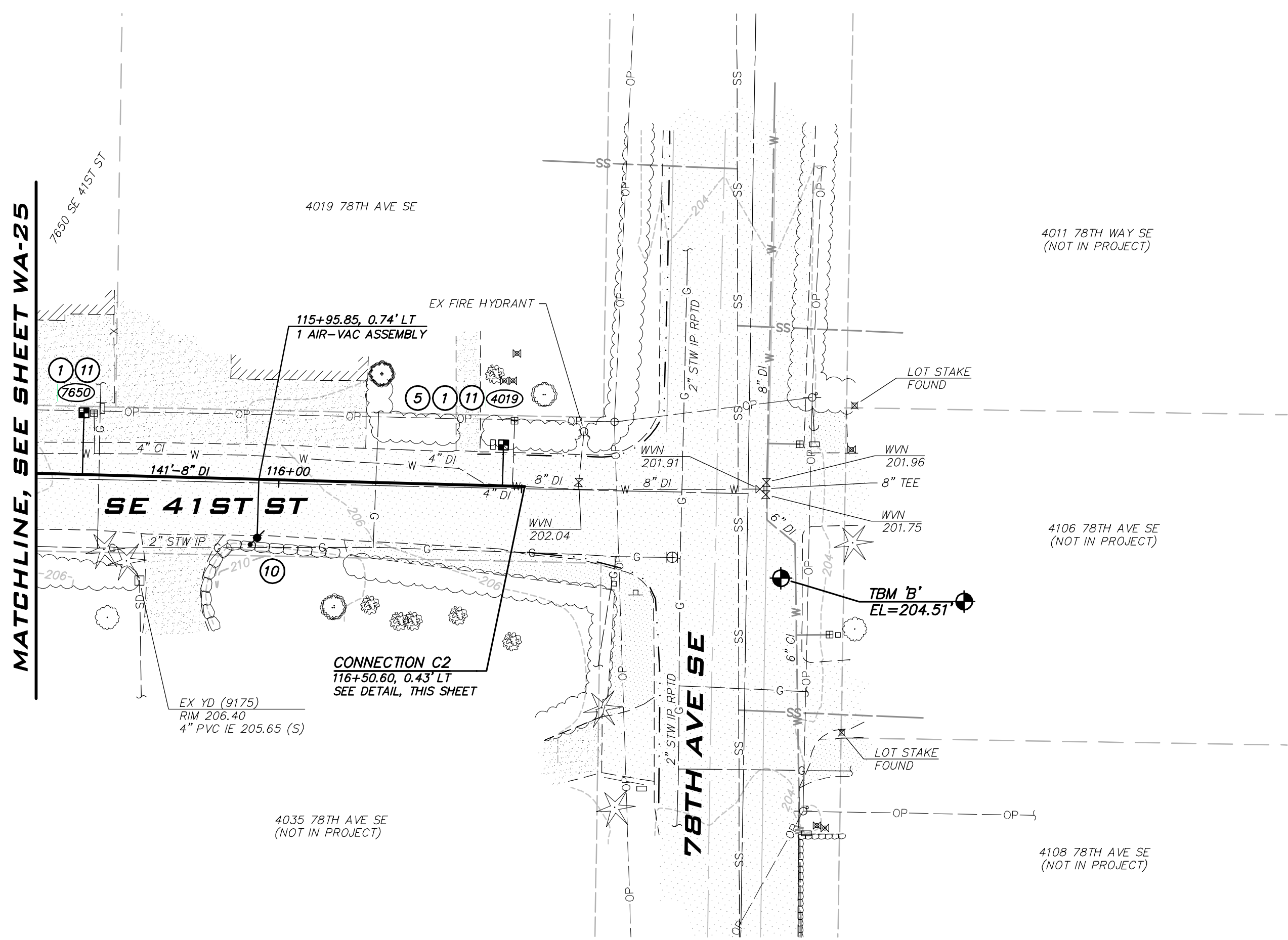
WATER PLAN - SE 41ST ST -
 ZONE C
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERGER ISLAND WASHINGTON

6/9/23

JOB NUMBER:
22-229

SHEET NAME:
WA-25

SHT **40** OF **68**



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

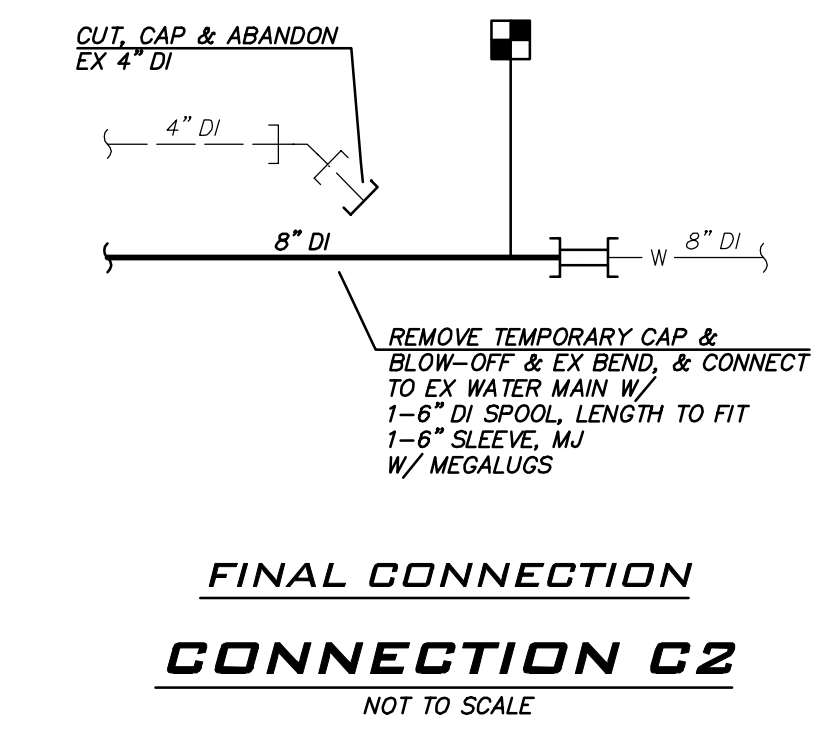
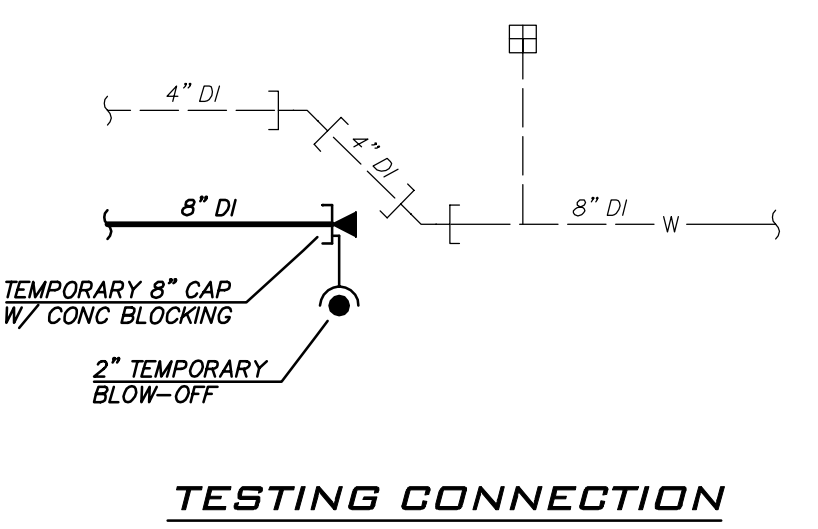
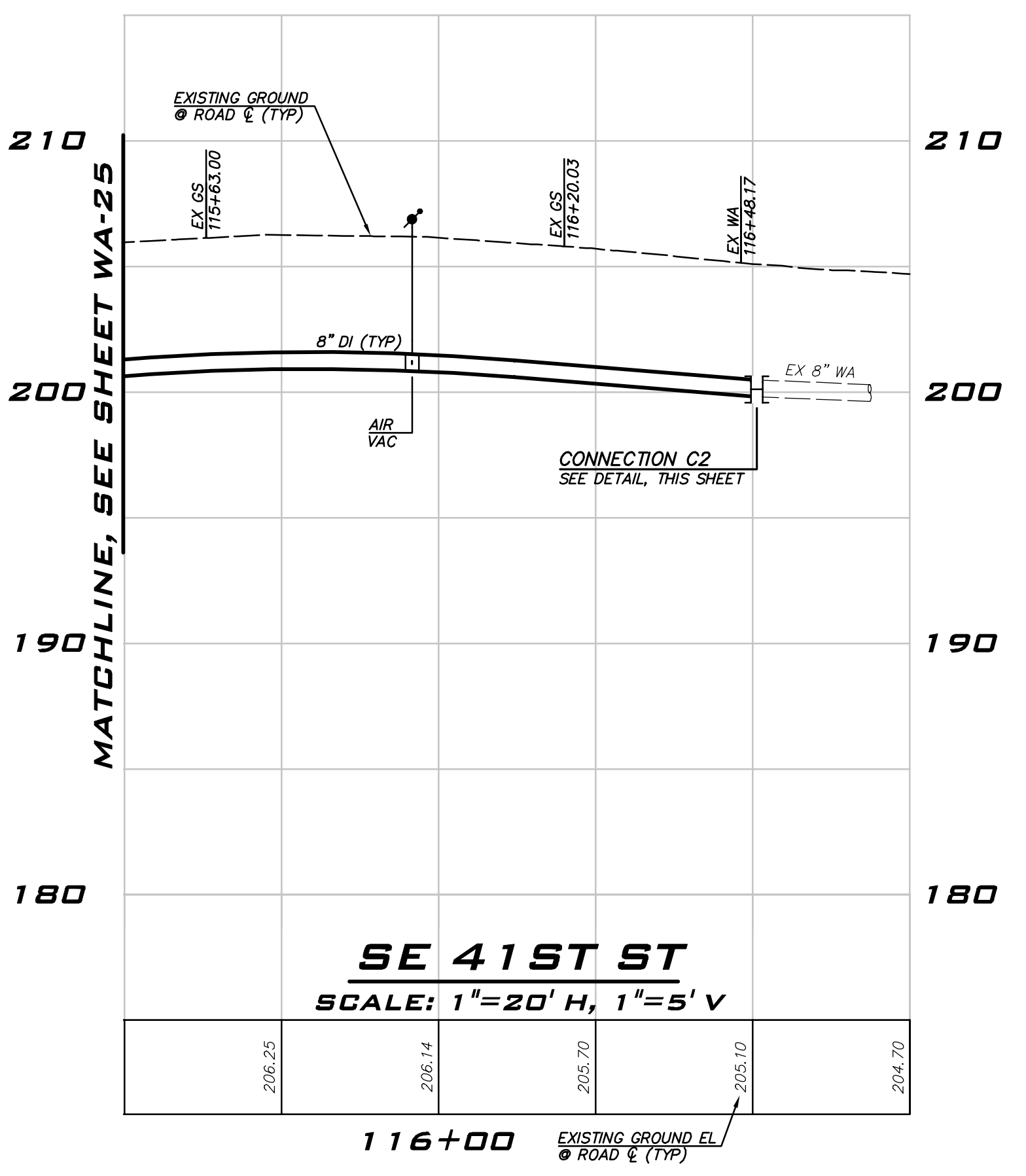
DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

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WATER PLAN - SE 41ST ST -
 ZONE C
 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERGER ISLAND WASHINGTON

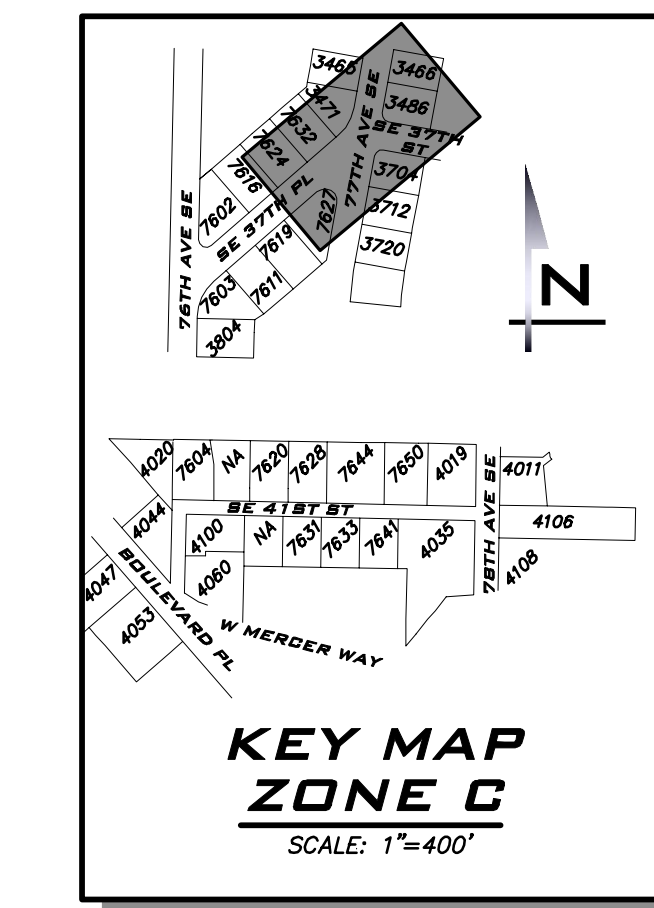
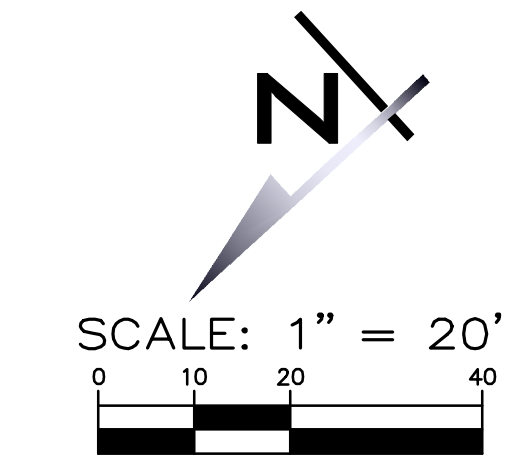
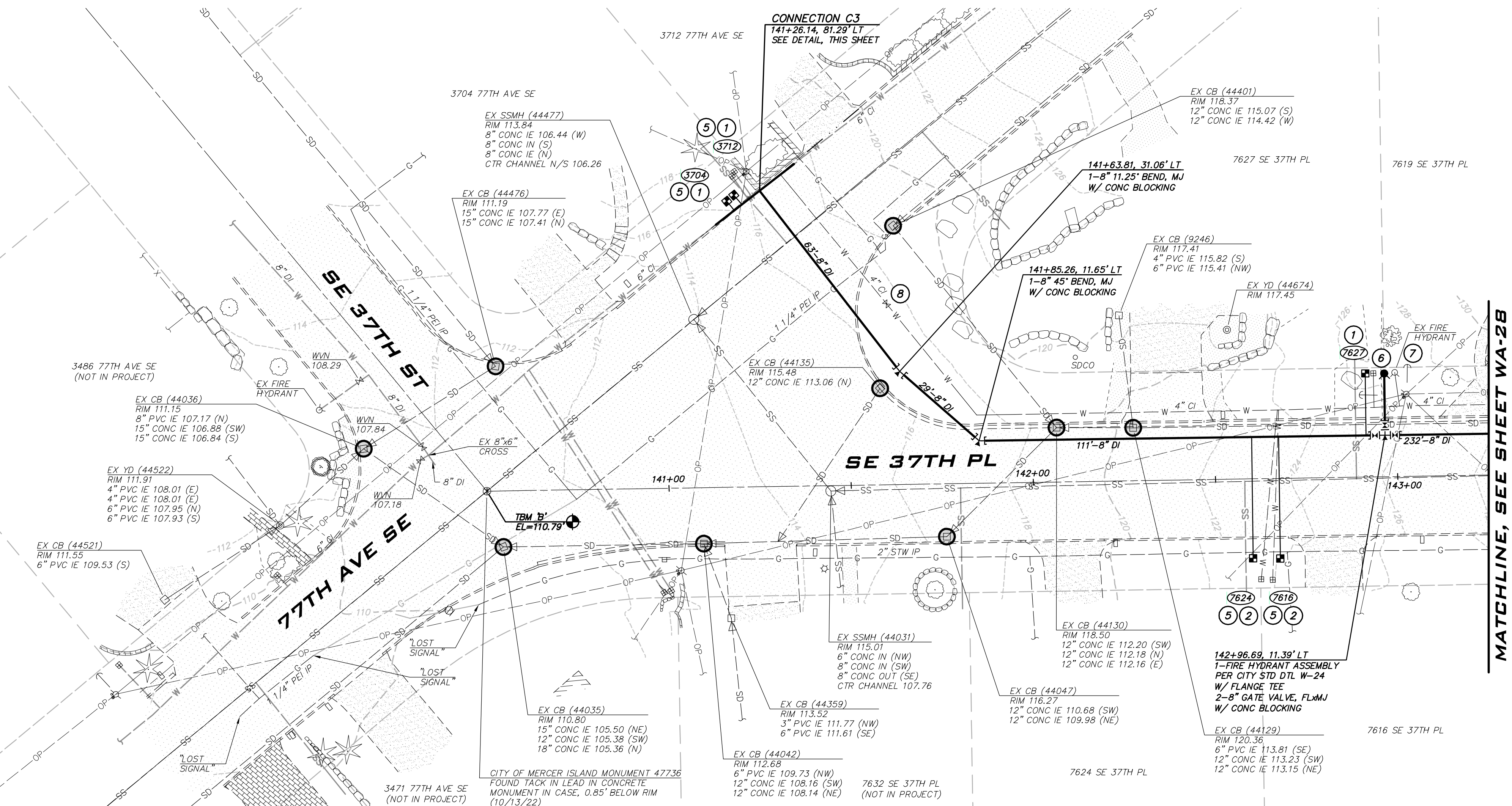
6/9/23

JOB NUMBER:
22-229

SHEET NAME:
WA-26

SHT **41** OF **68**

SEC 1,11,12,13, TWP 24N, RGE 5E, W.M.



BLUELINE

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KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
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SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

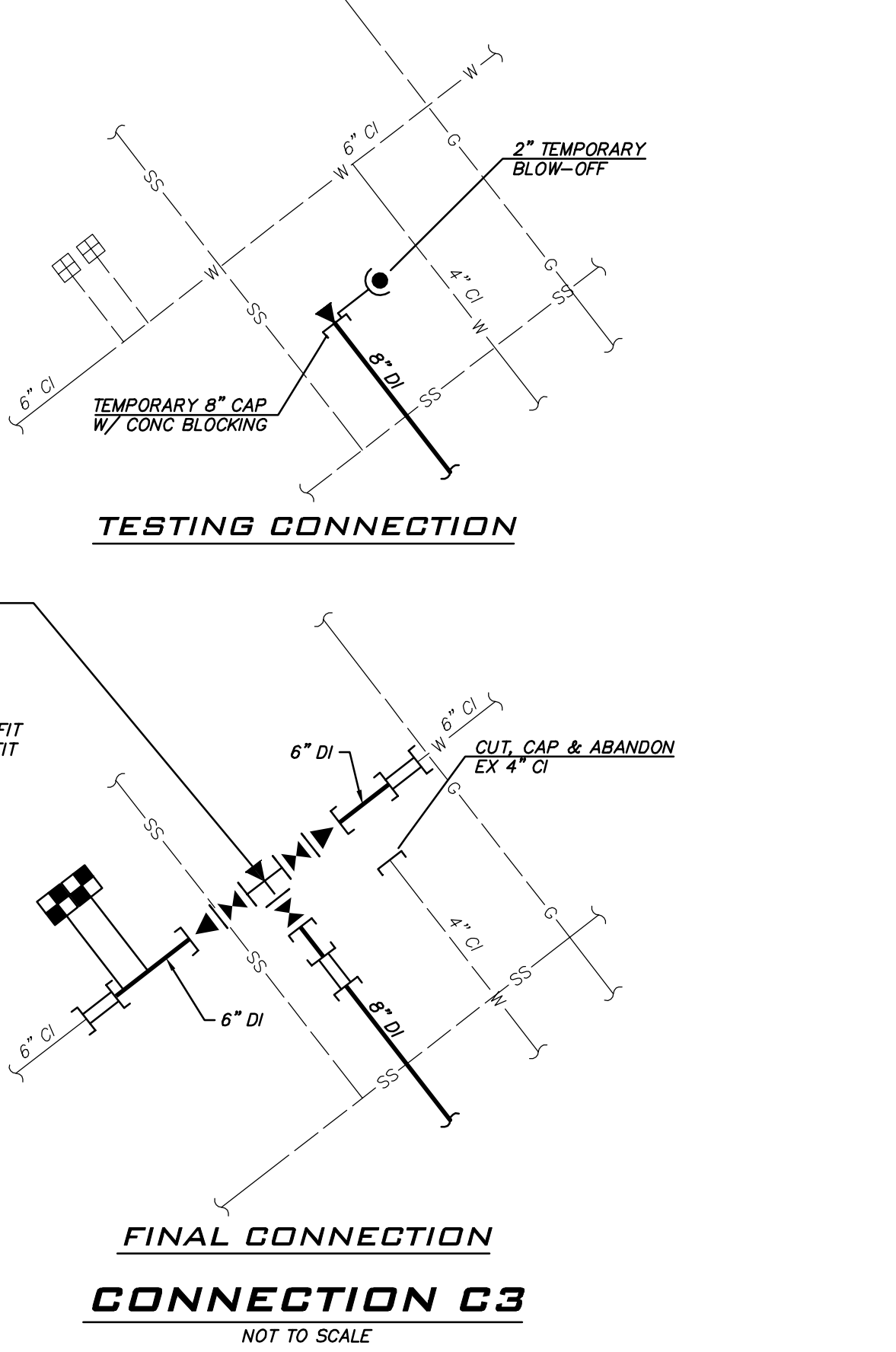
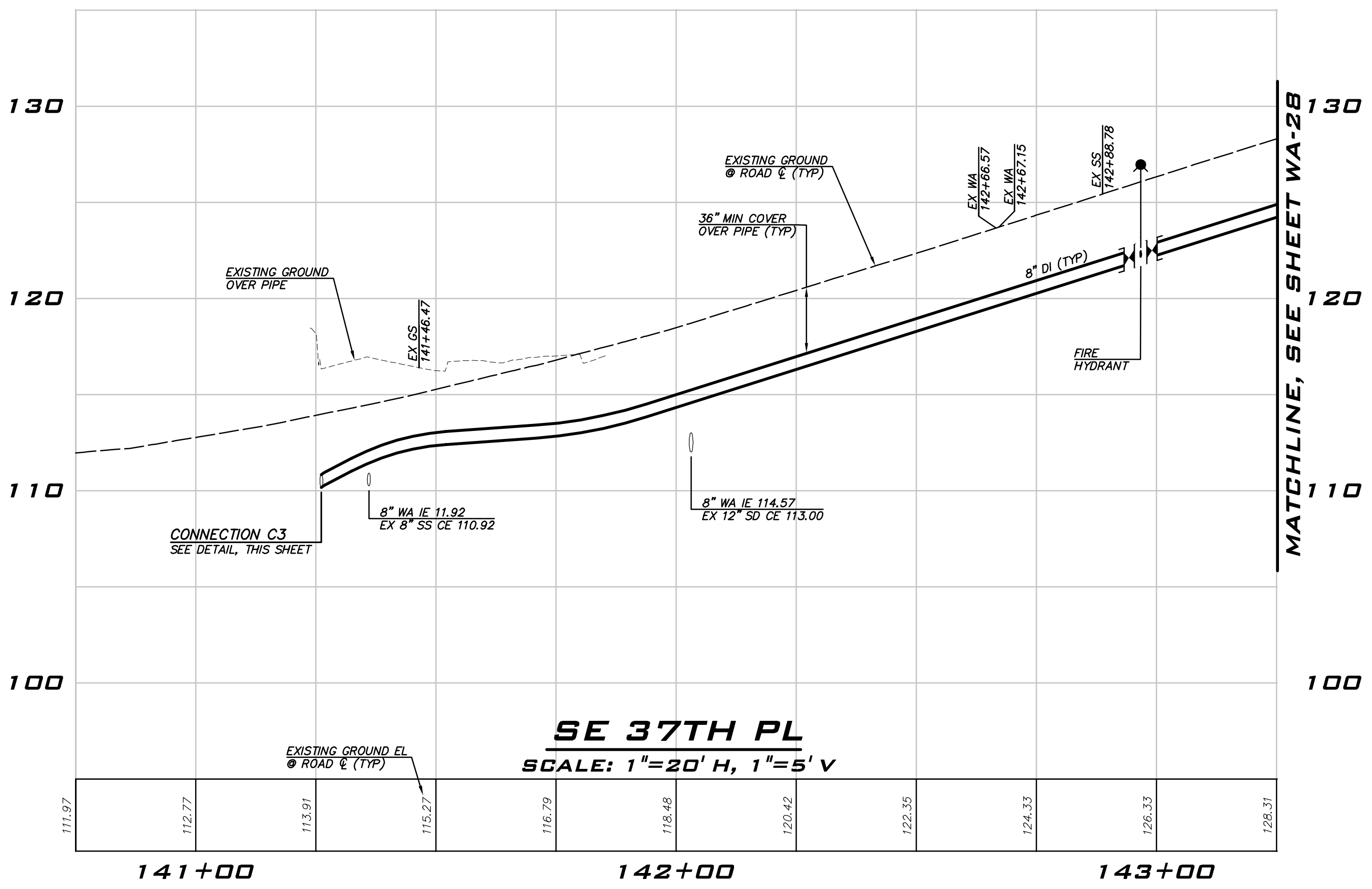
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NO	DATE	BY	REVISIONS

WATER PLAN - SE 37TH PL -
ZONE C
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

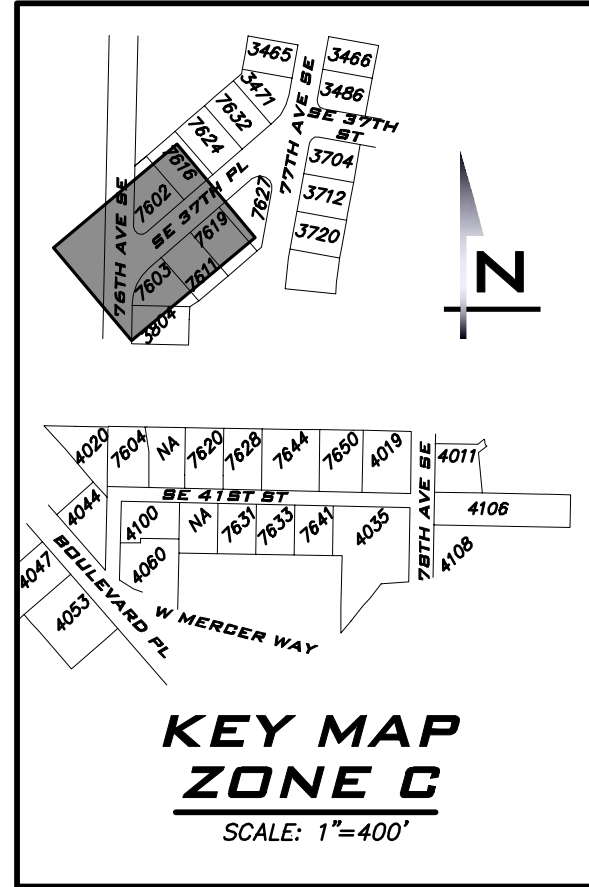
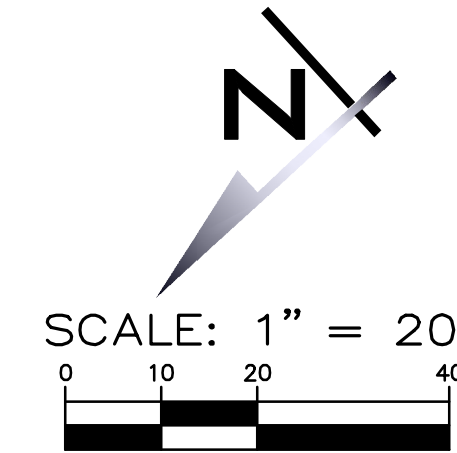
6/9/23

JOB NUMBER:
22-229

SHEET NAME:
WA-27

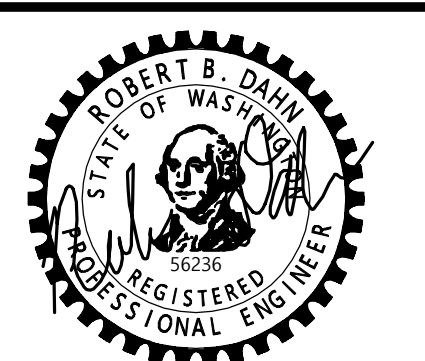
SHT **42** OF **68**

SCALE: AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023

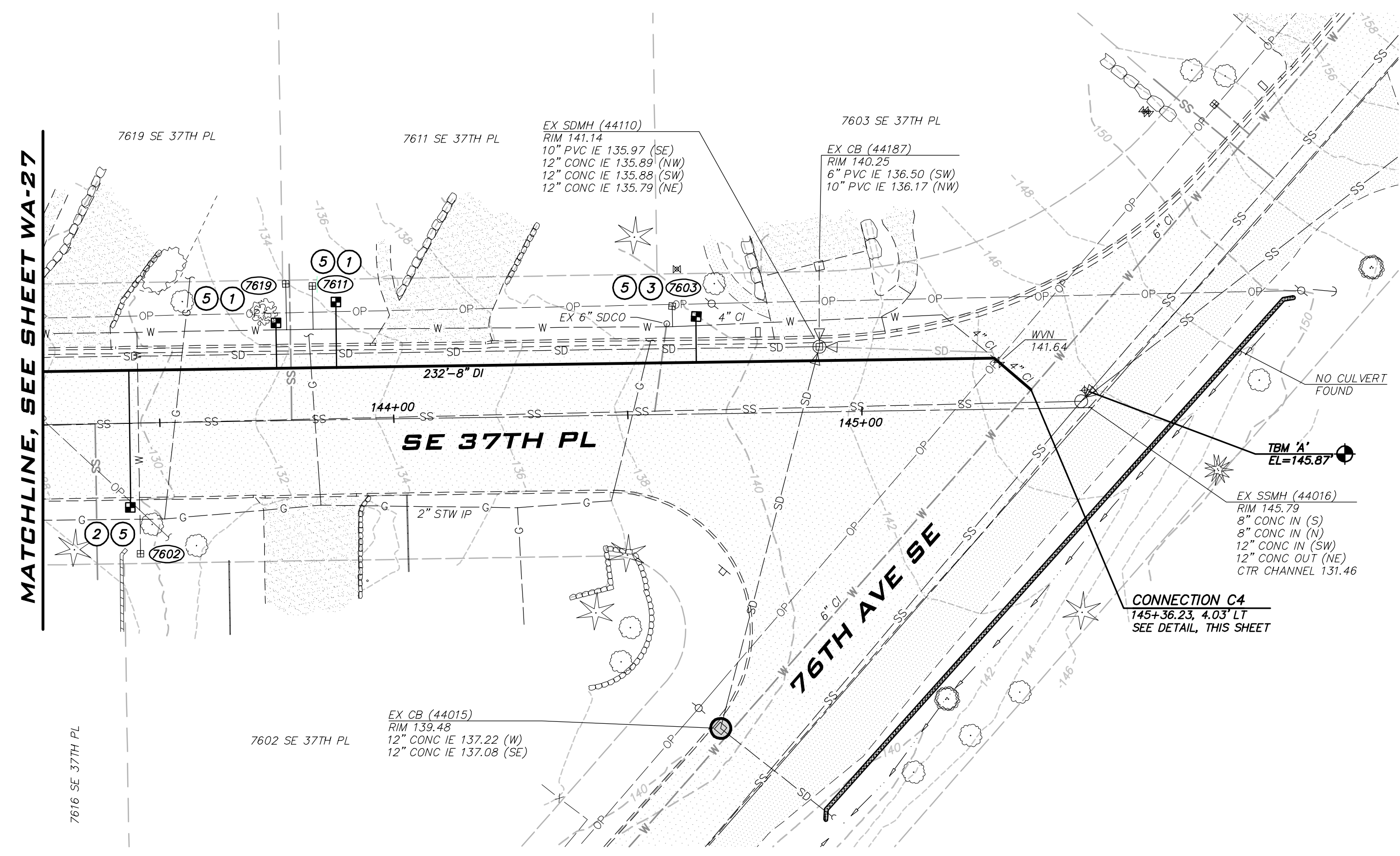


NO	DATE	BY	REVISIONS

WATER PLAN - SE 37TH PL -
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 2023 WATER SYSTEM
 IMPROVEMENTS PROJECT
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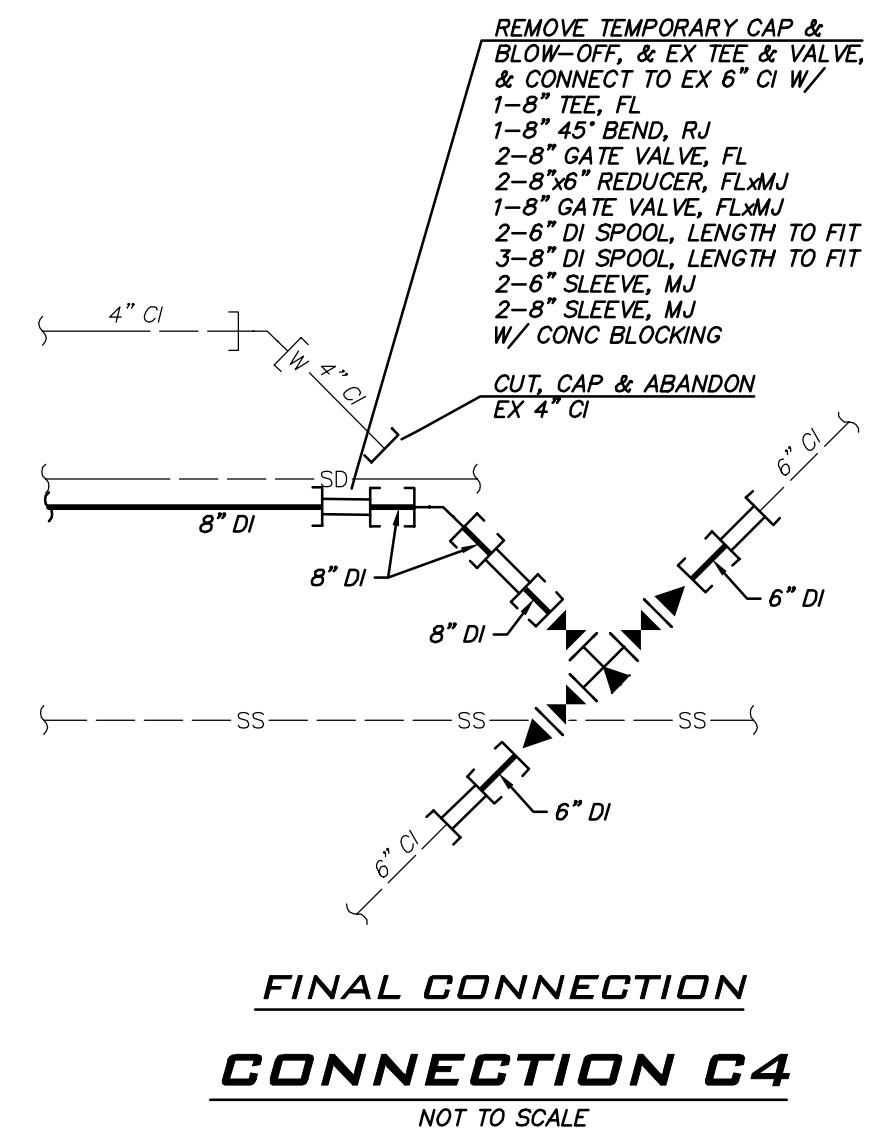
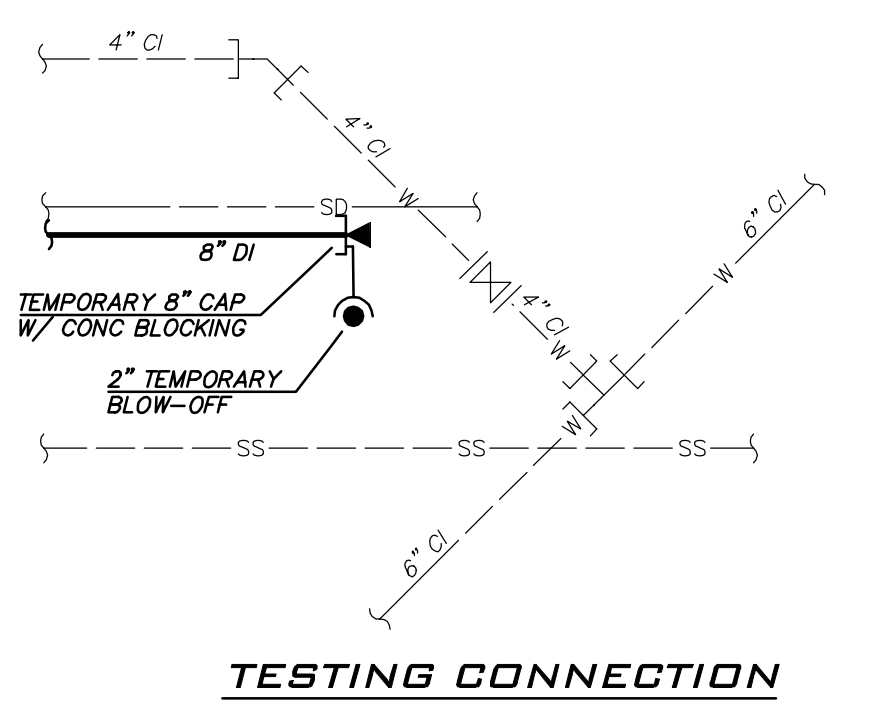
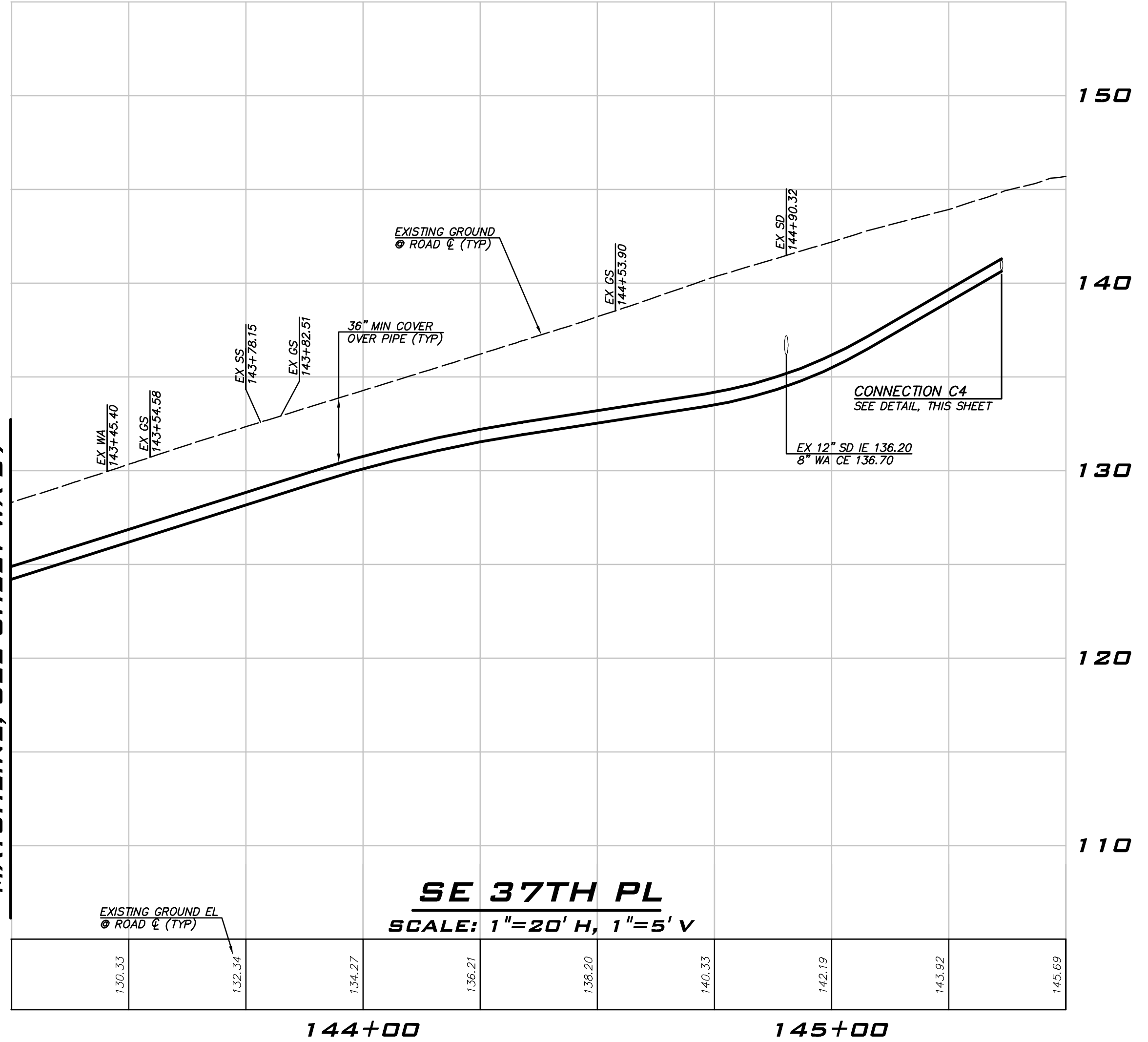
6/9/23
JOB NUMBER:
22-229
SHEET NAME:
WA-28
SHT **43** OF **68**



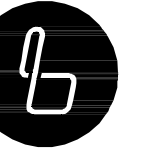
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NOTE
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BLUELINE

25 CENTRAL WAY, SUITE 400,
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P: 425.216.4051 F: 425.216.4052
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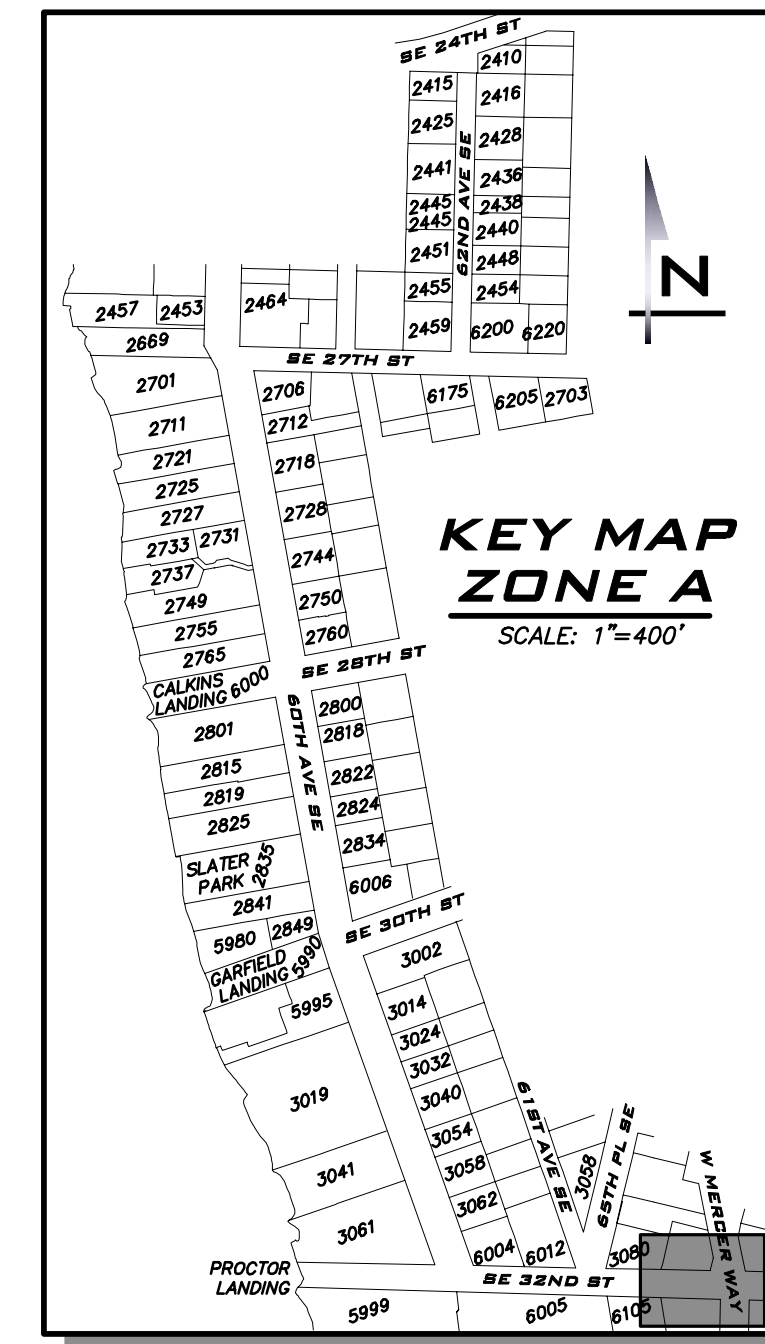
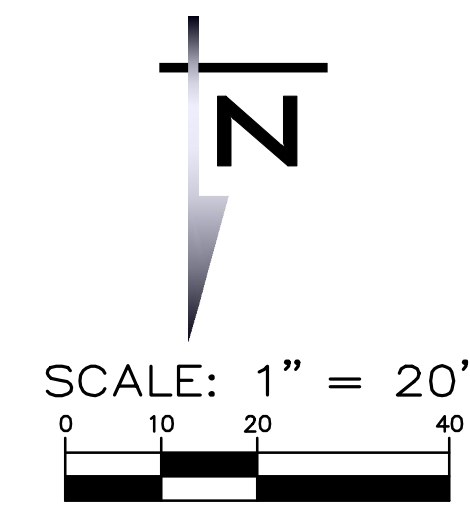
SCALE:
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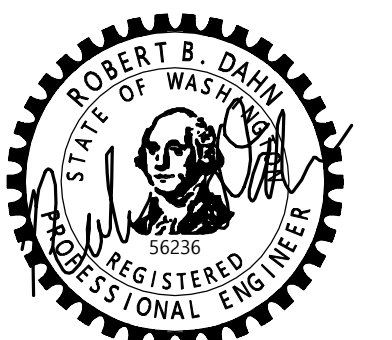
ISSUE DATE:
6/9/2023



REVISIONS

NO DATE BY

**ROAD RESTORATION PLAN -
ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON**



6/9/23

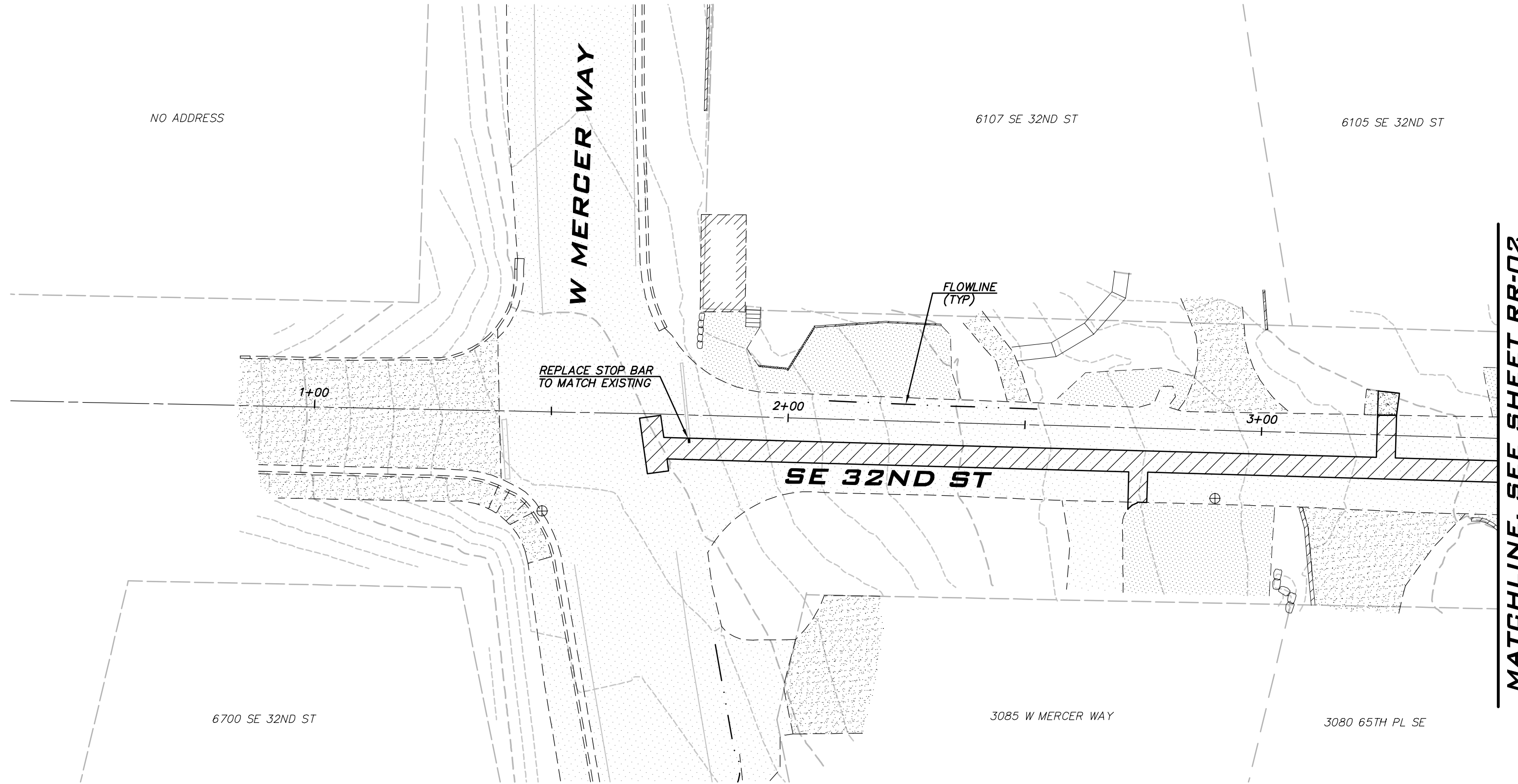
JOB NUMBER:

22-229

SHEET NAME:

RR-01

SHT **44** OF **68**



LEGEND

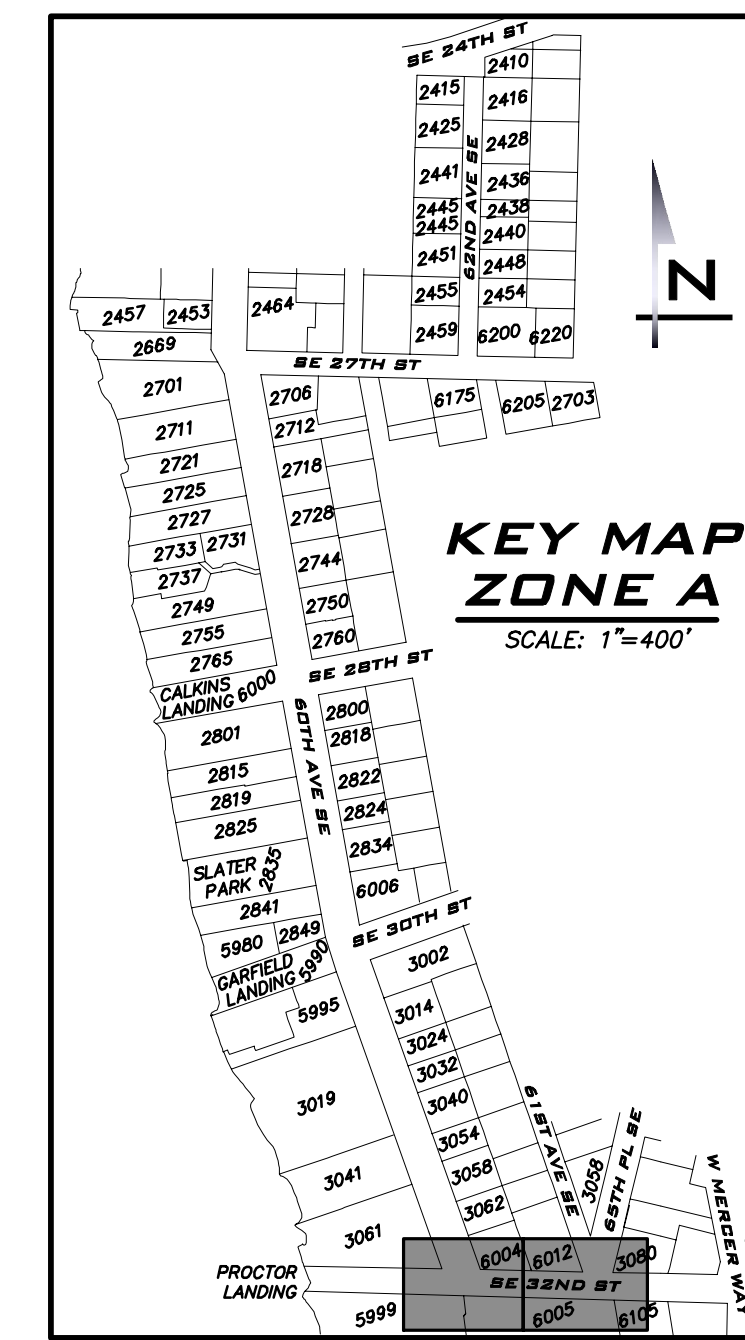
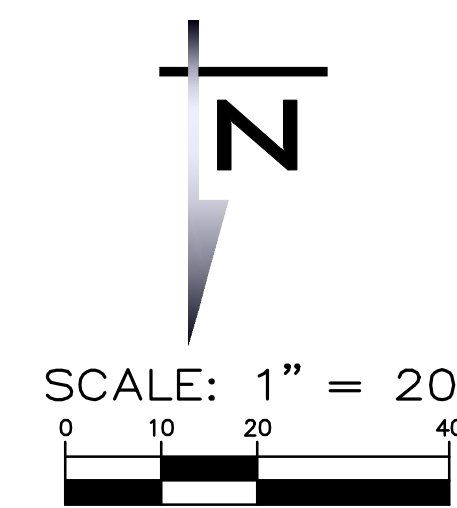
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- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
- CURB AND GUTTER

NOTES

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EXISTING UTILITY NOTE

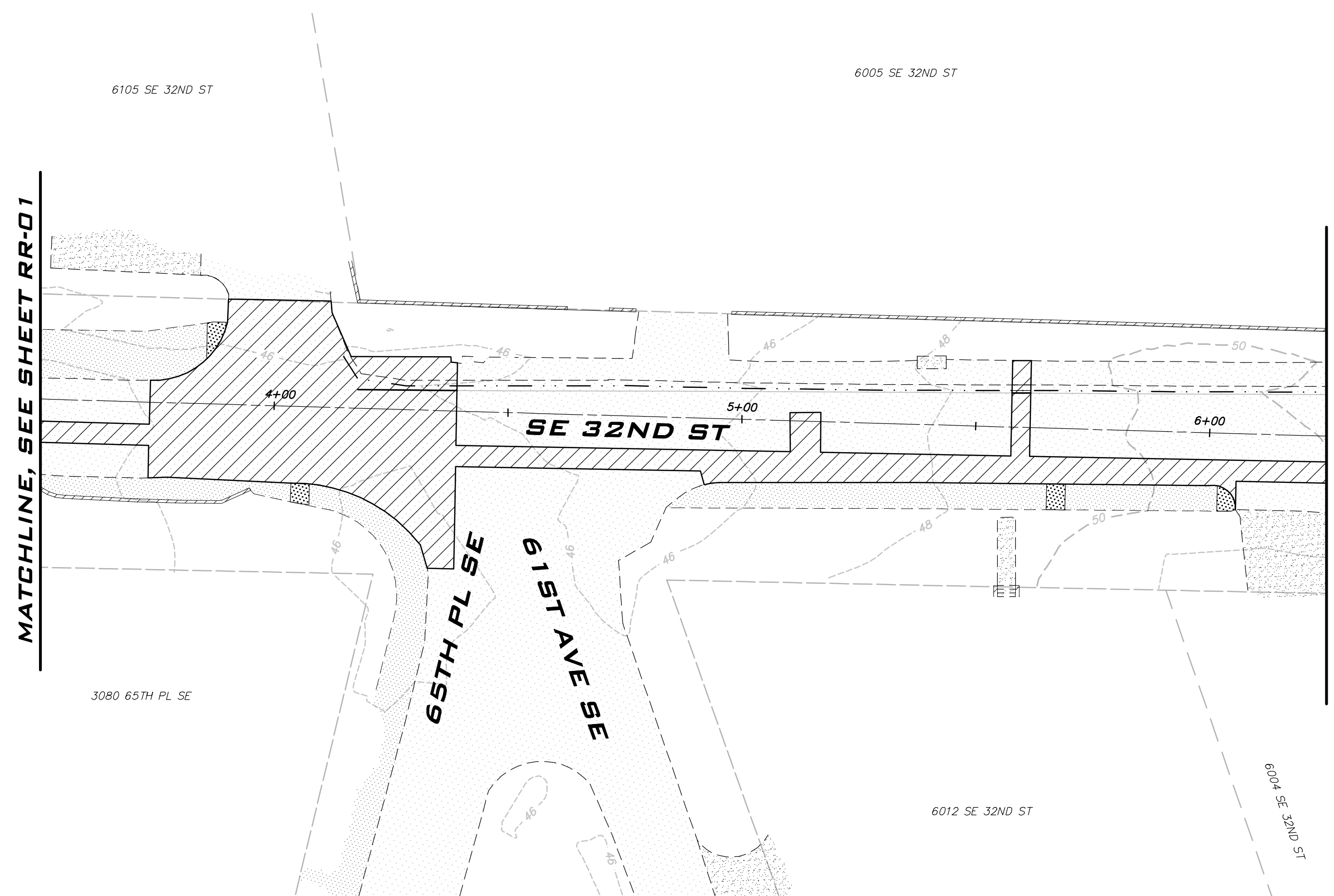
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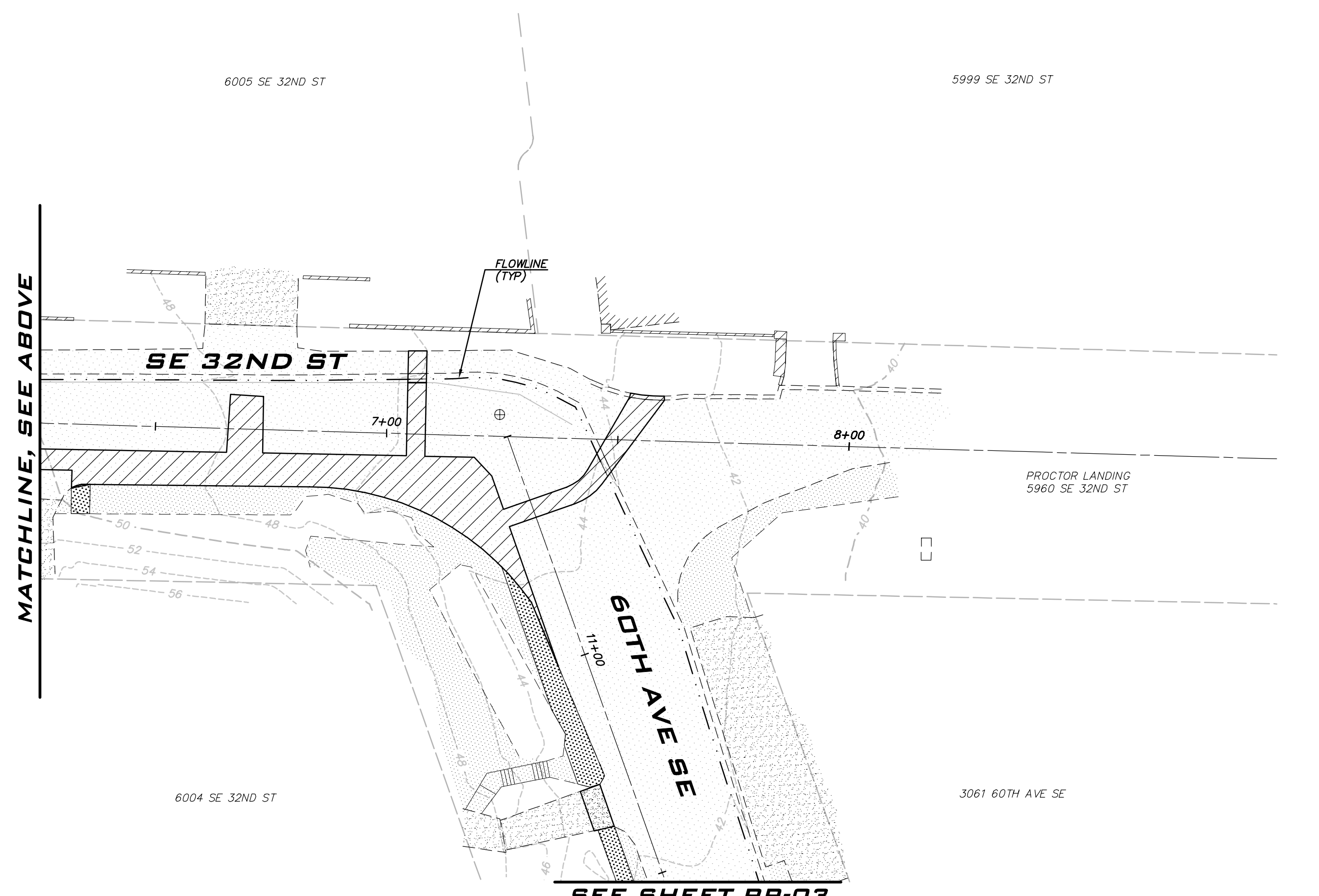
SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023

MATCHLINE, SEE SHEET RR-01



MATCHLINE, SEE BELOW

MATCHLINE, SEE ABOVE



SEE SHEET RR-03

LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
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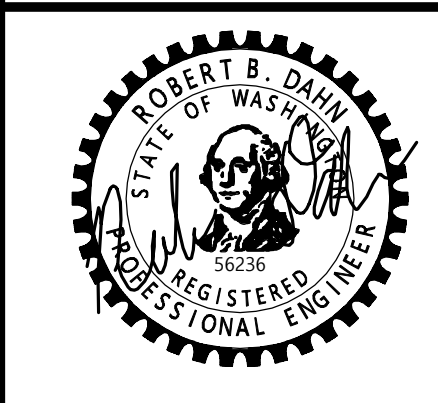
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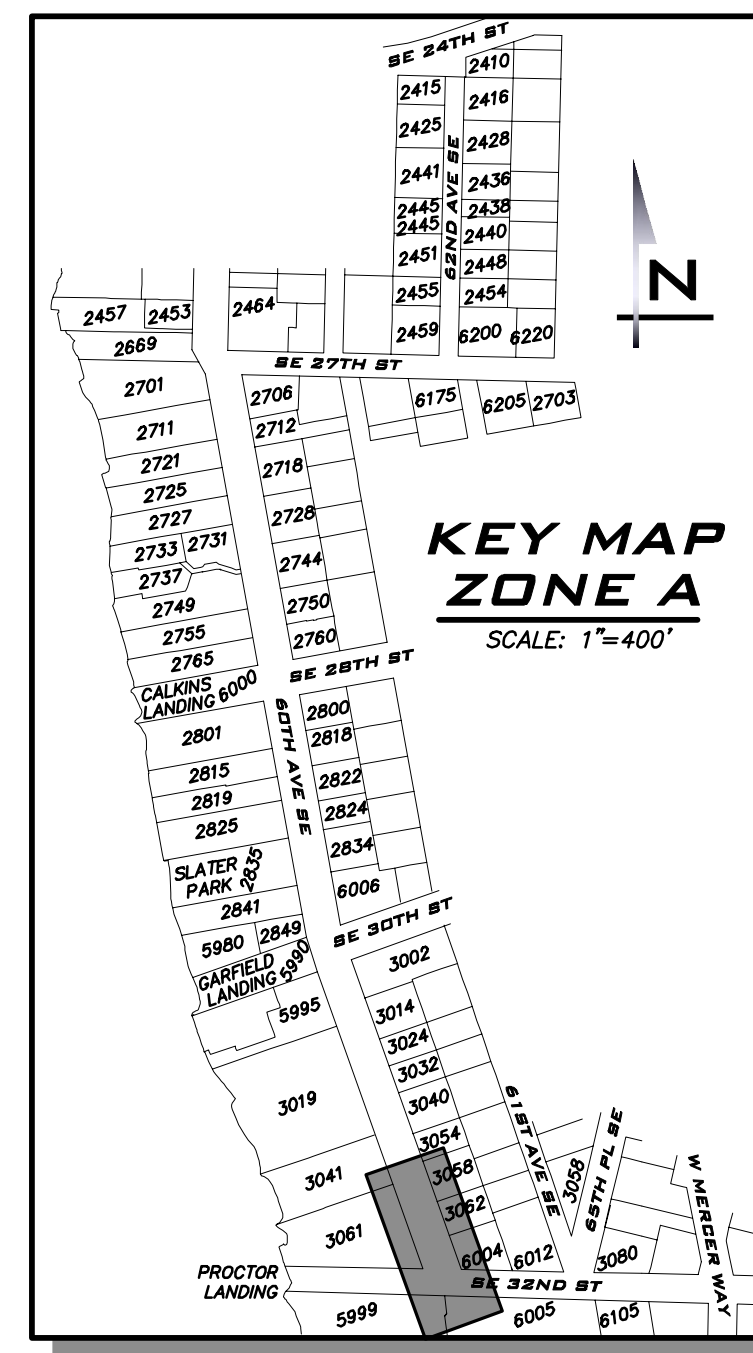
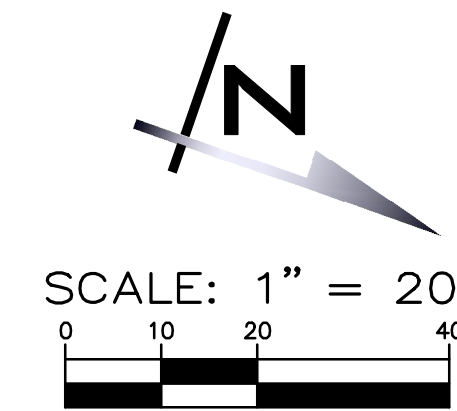
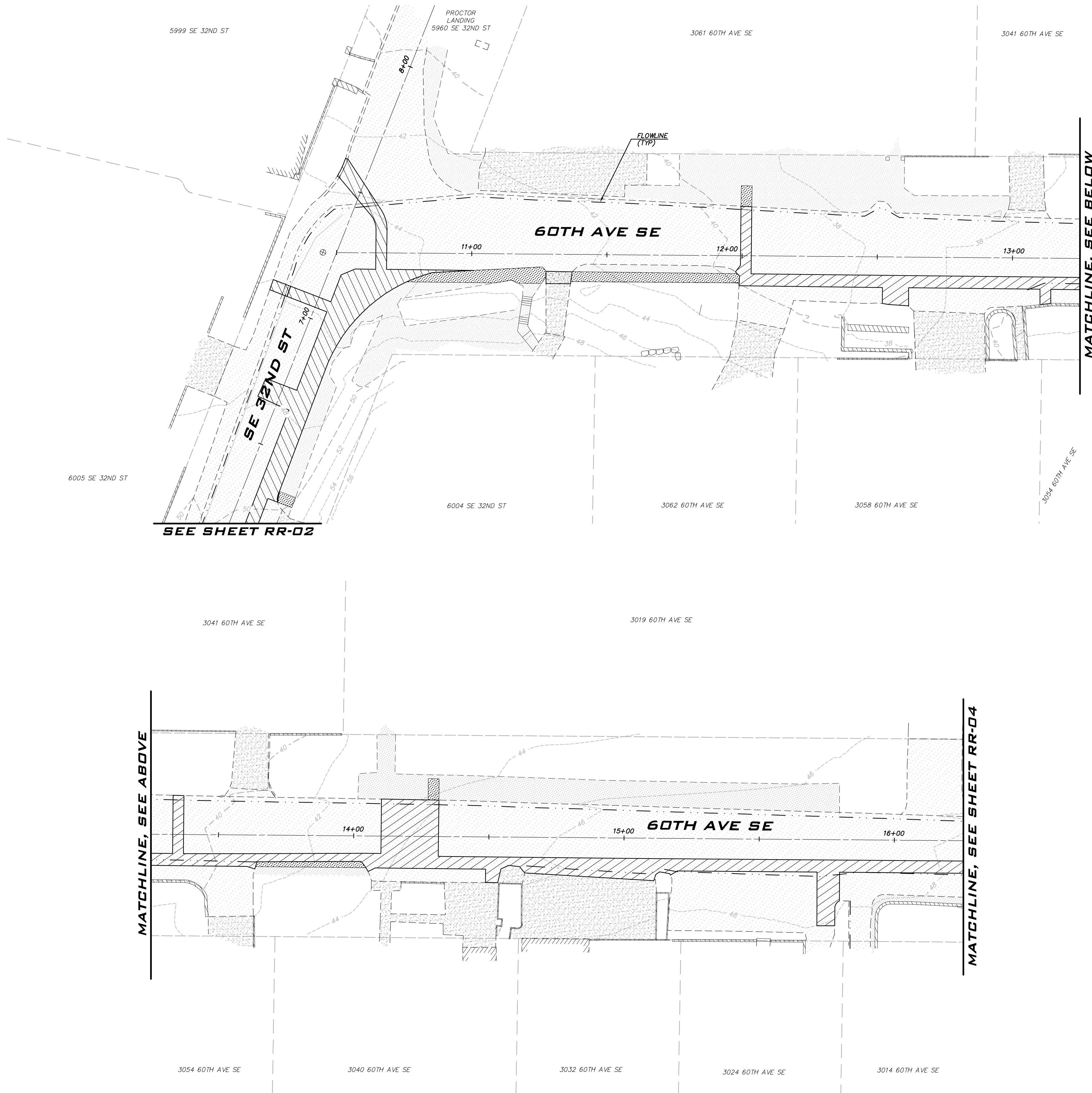
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ROAD RESTORATION PLAN -
ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
RR-02

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SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**

CITY OF MERCER ISLAND WASHINGTON

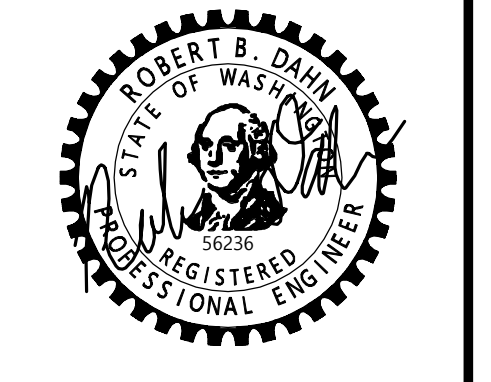
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- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
- CURB AND GUTTER

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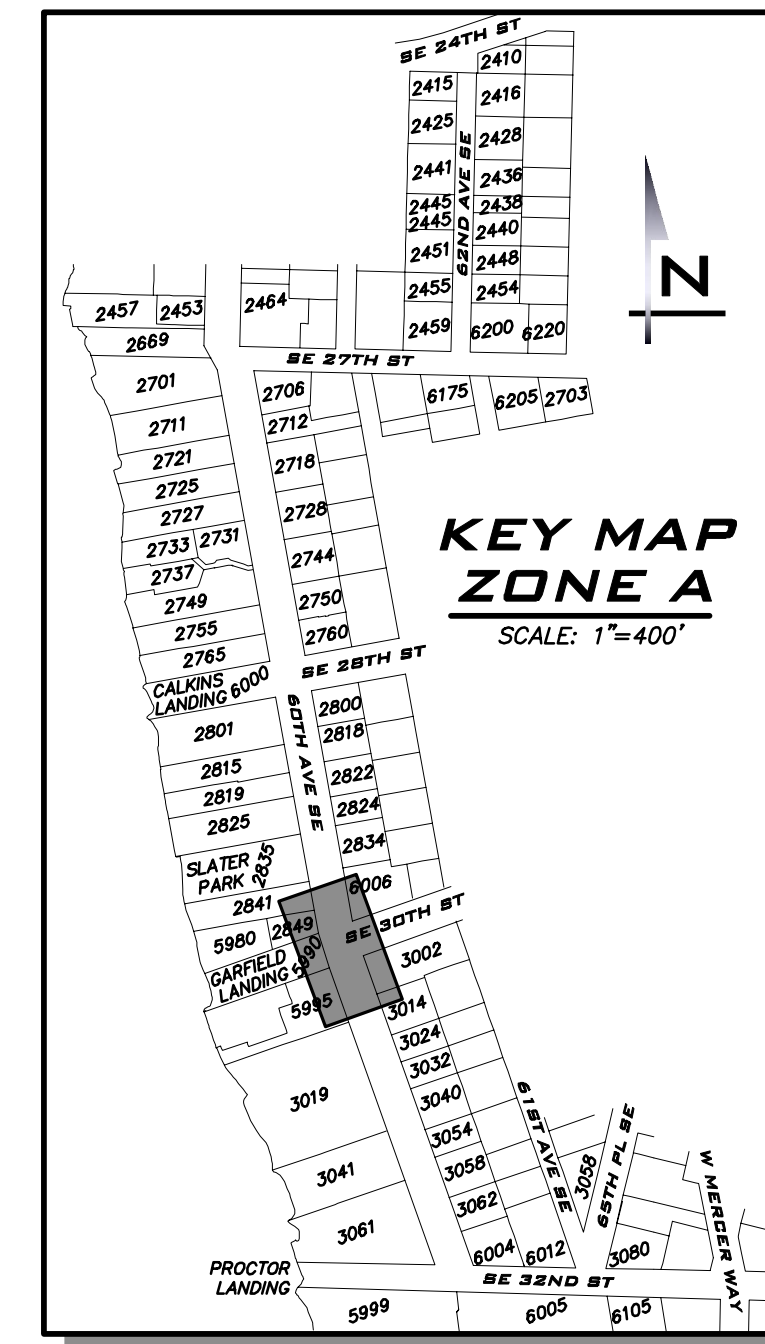
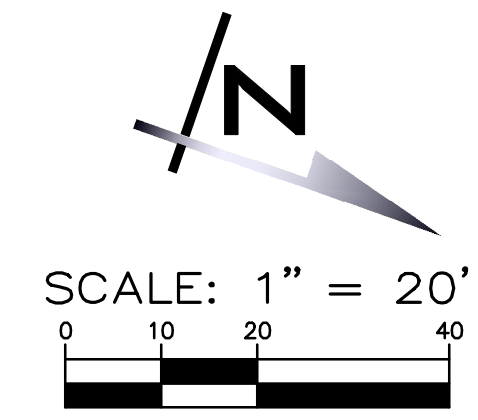
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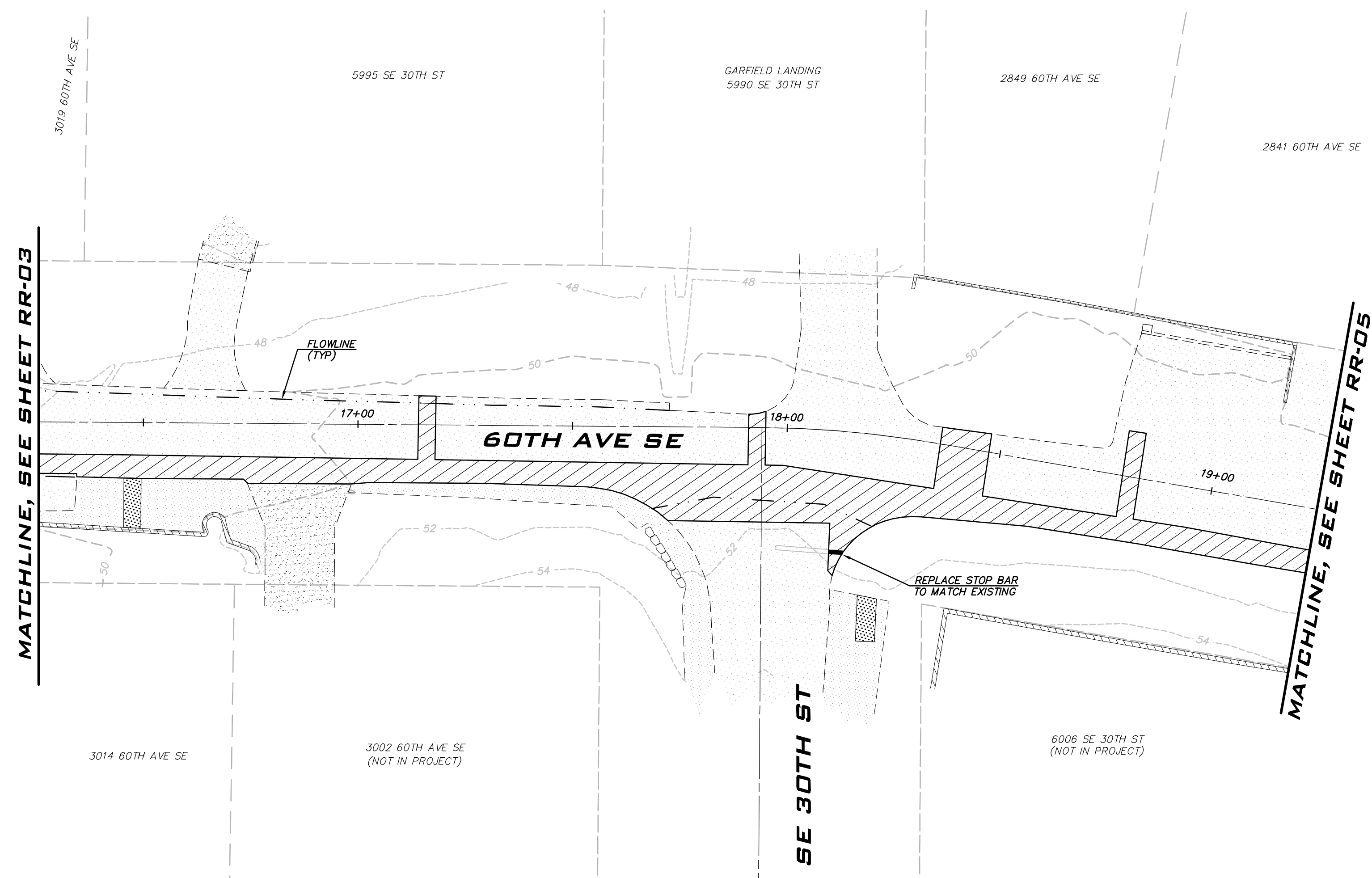
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PROJECT MANAGER:
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PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023



NO	DATE	BY	REVISIONS

LEGEND

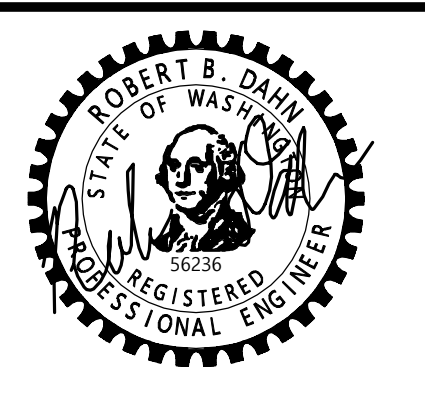
- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
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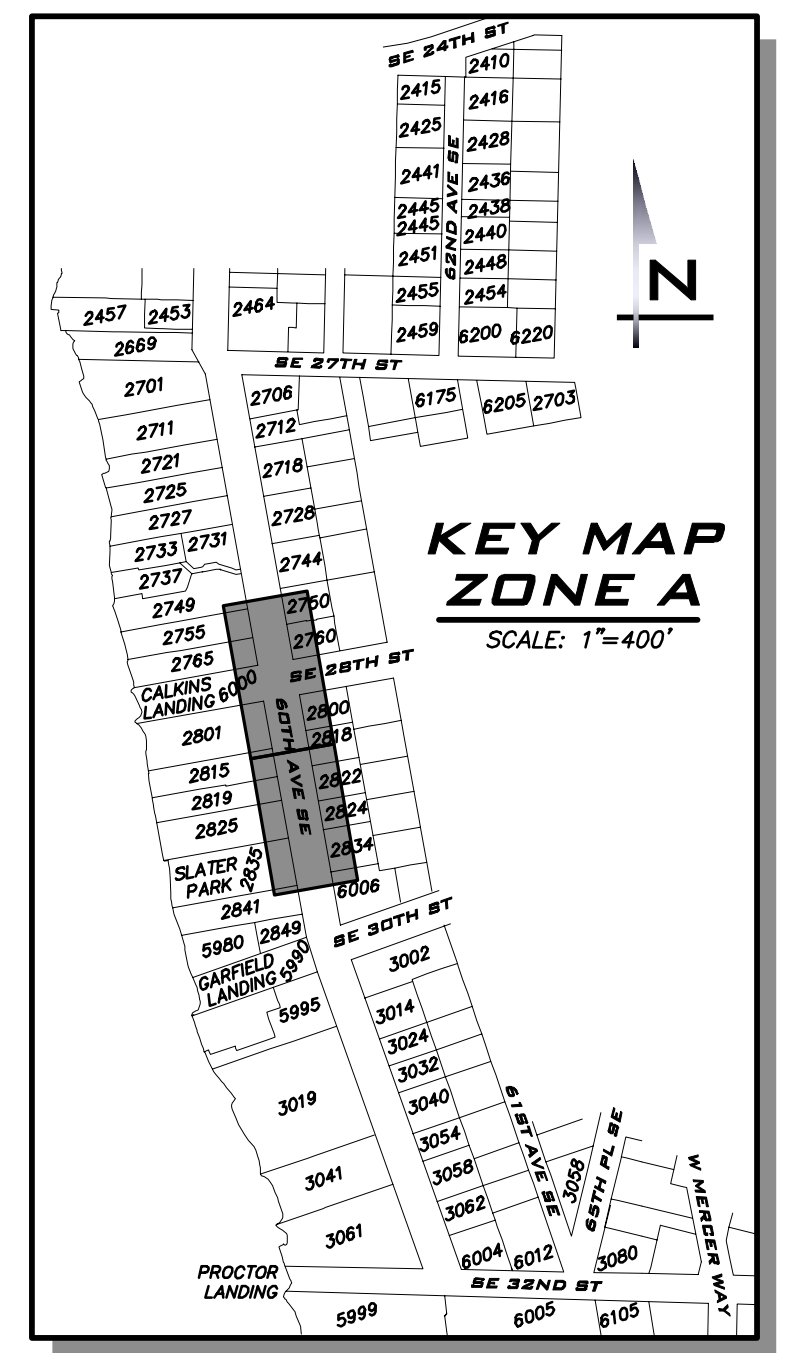
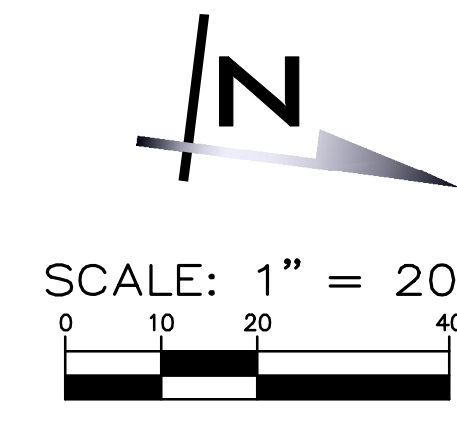
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**ROAD RESTORATION PLAN -
ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON**



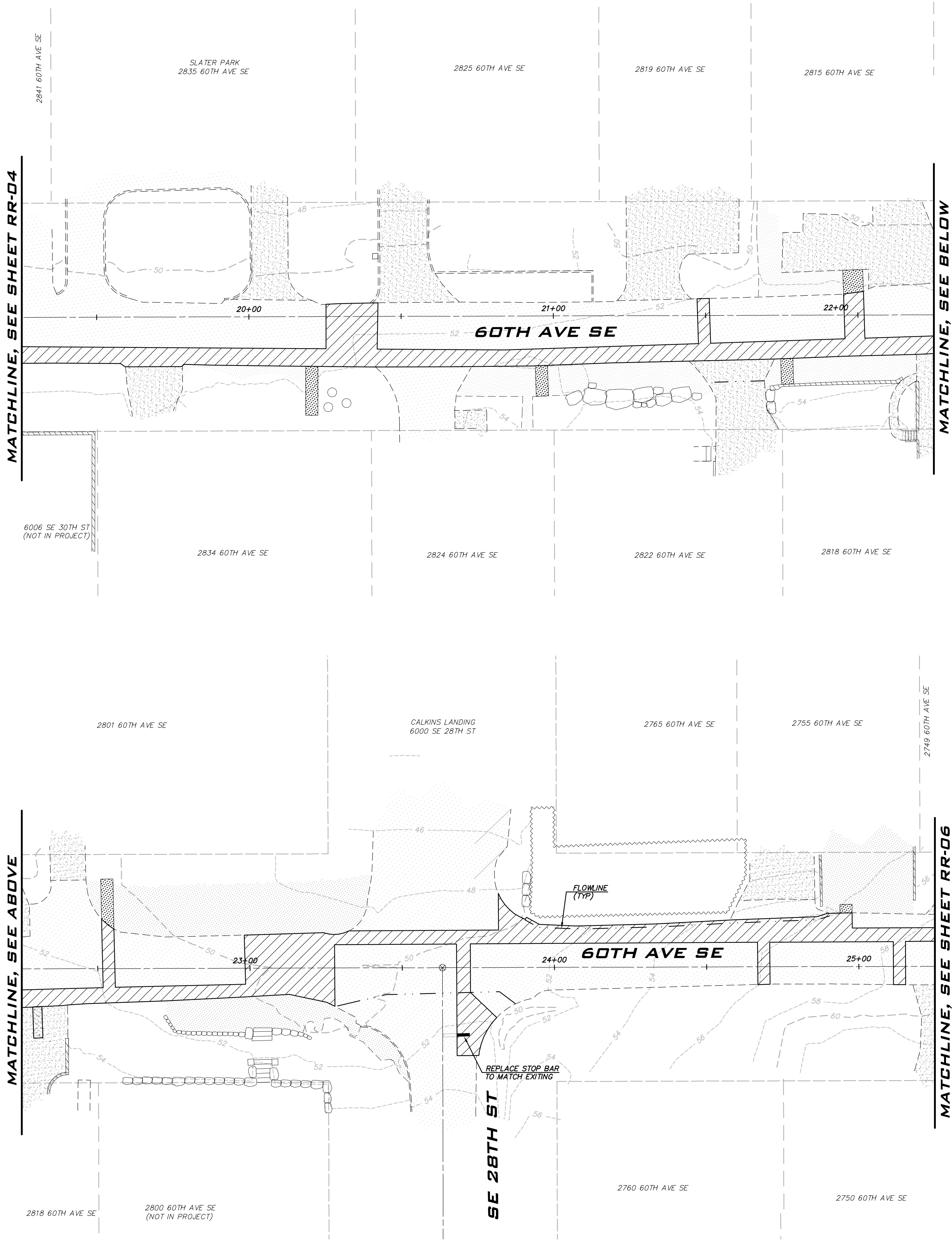
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JOB NUMBER:
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SHEET NAME:
RR-04



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SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023



LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
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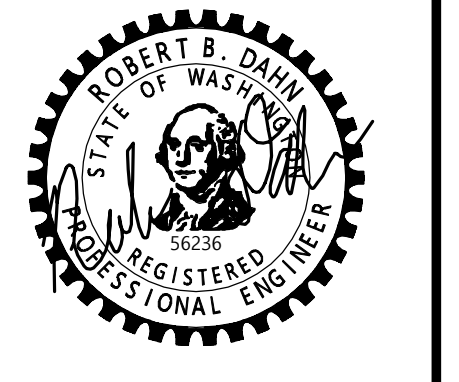
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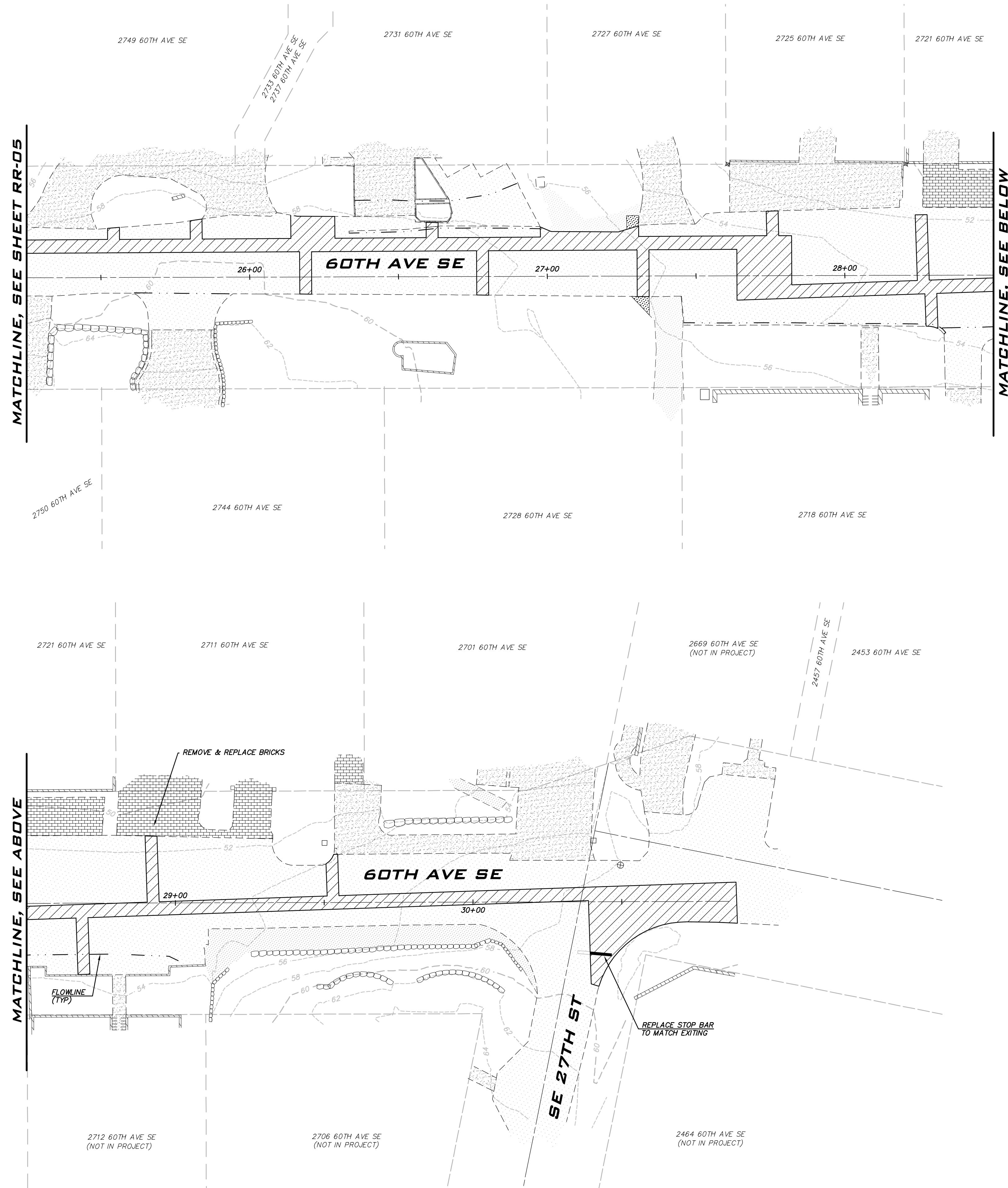
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ROAD RESTORATION PLAN -
ZONE A
2023 WATER SYSTEM
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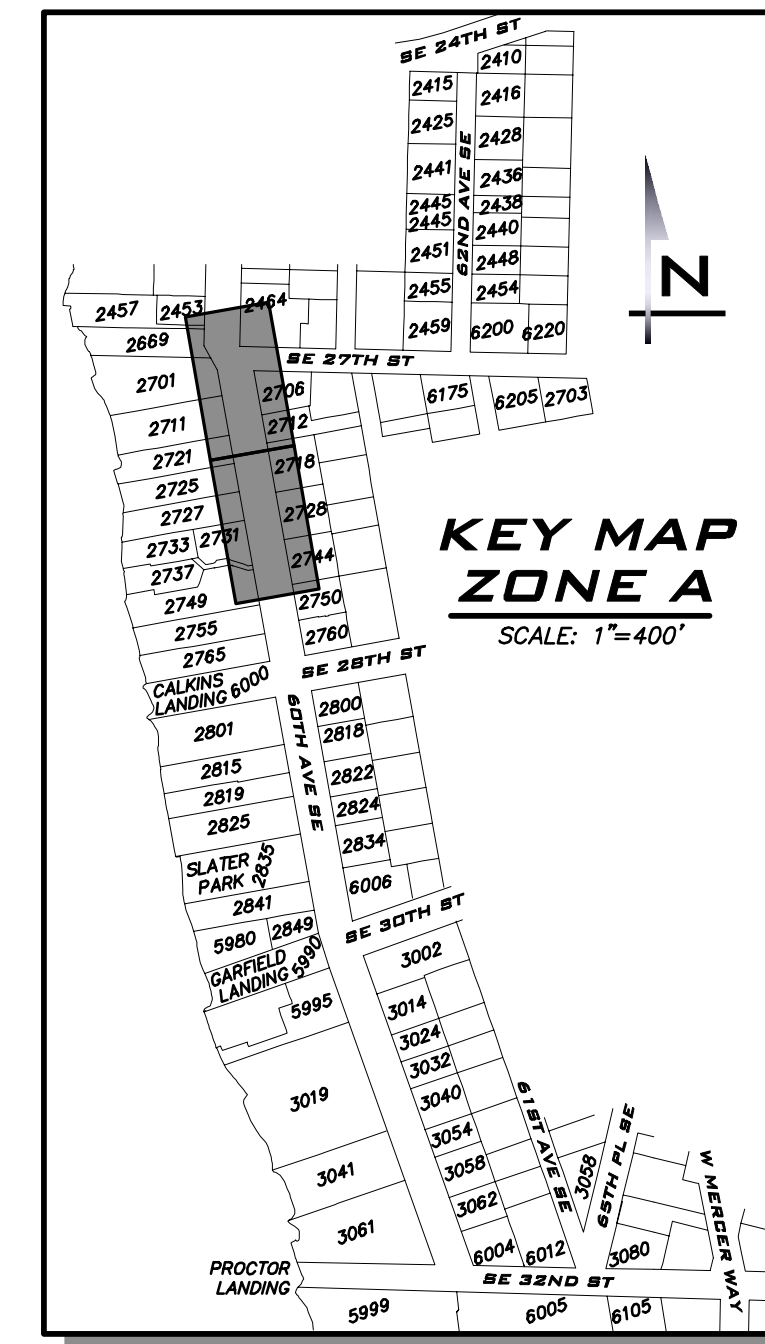
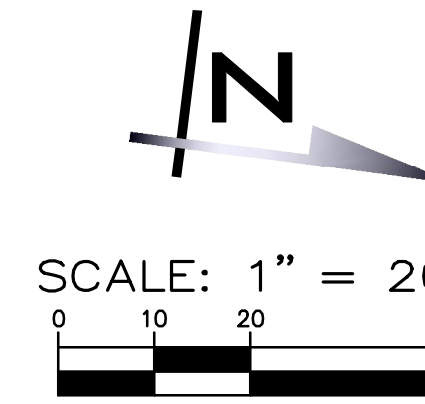
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 SHEET NAME:
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MATCHLINE, SEE SHEET RR-05

MATCHLINE, SEE BELOW



SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
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- CURB AND GUTTER

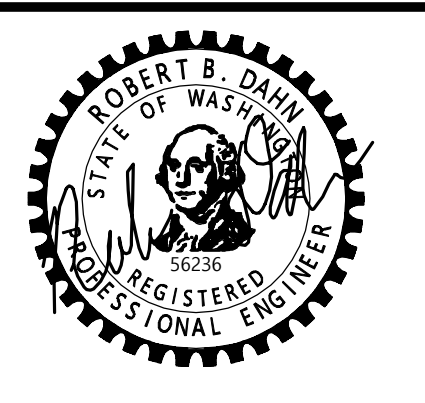
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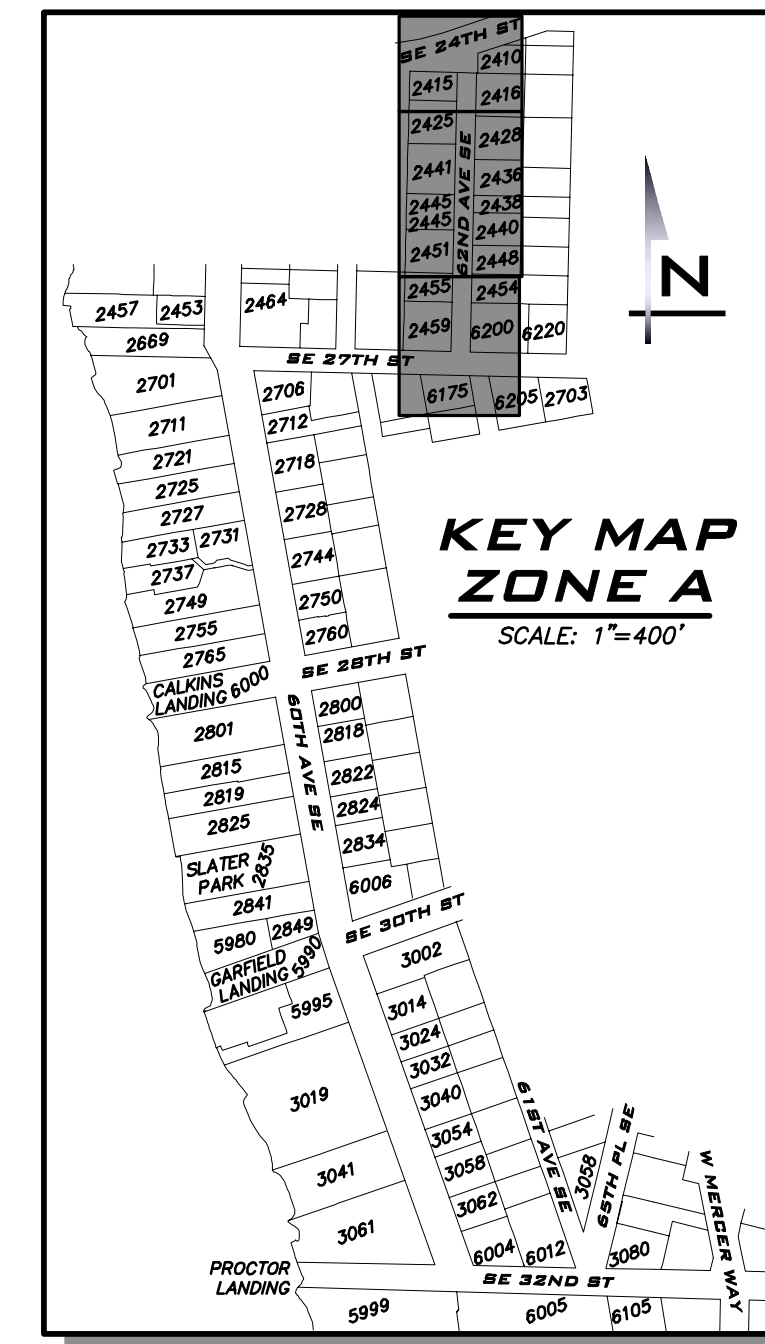
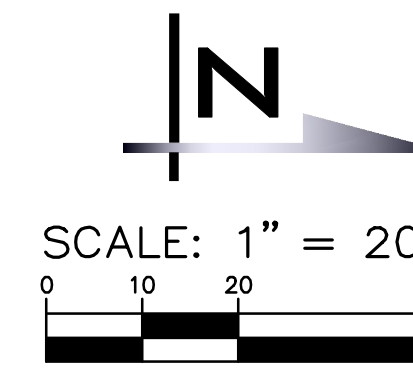
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ROAD RESTORATION PLAN -
ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
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SHEET NAME:
RR-06

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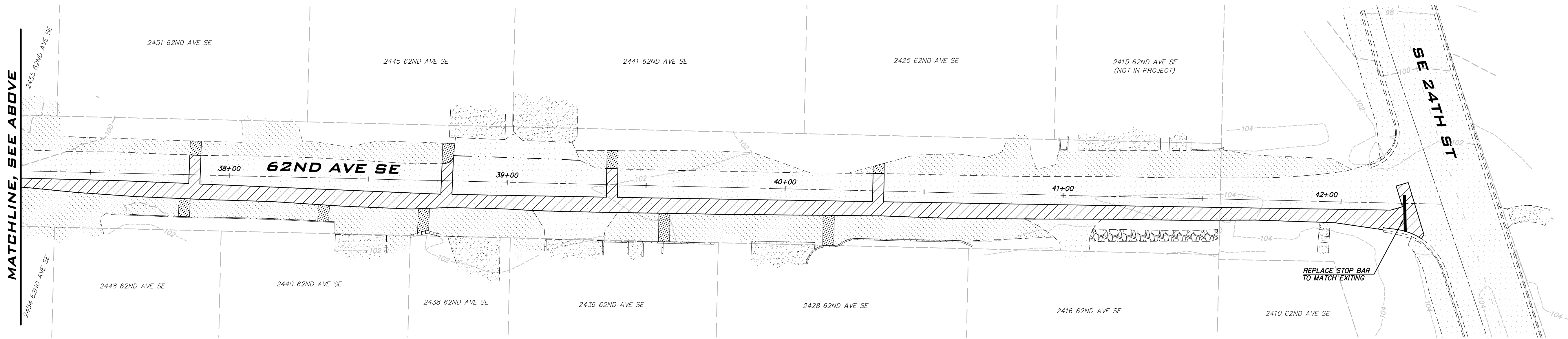
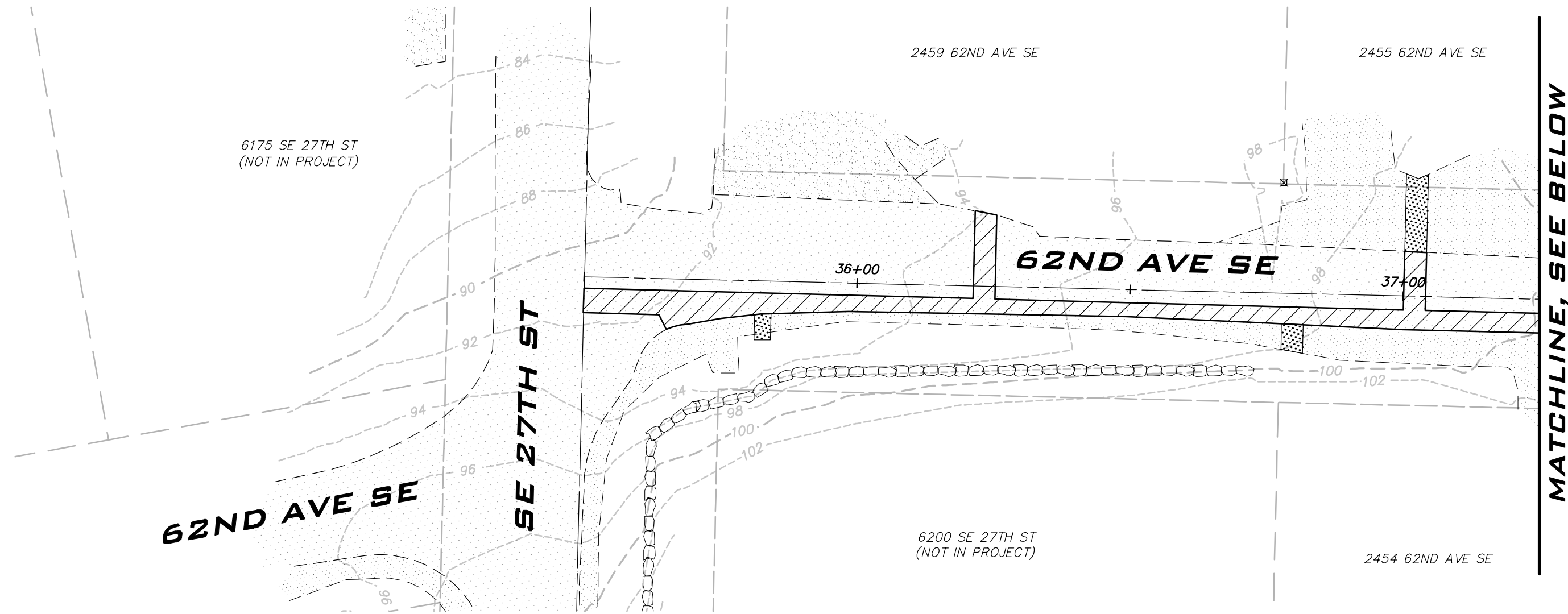
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023



LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
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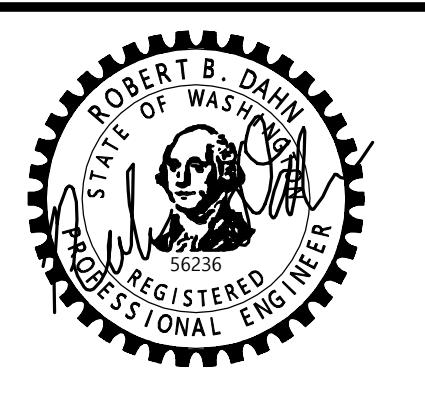
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NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
ZONE A
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**
 CITY OF MERCER ISLAND WASHINGTON

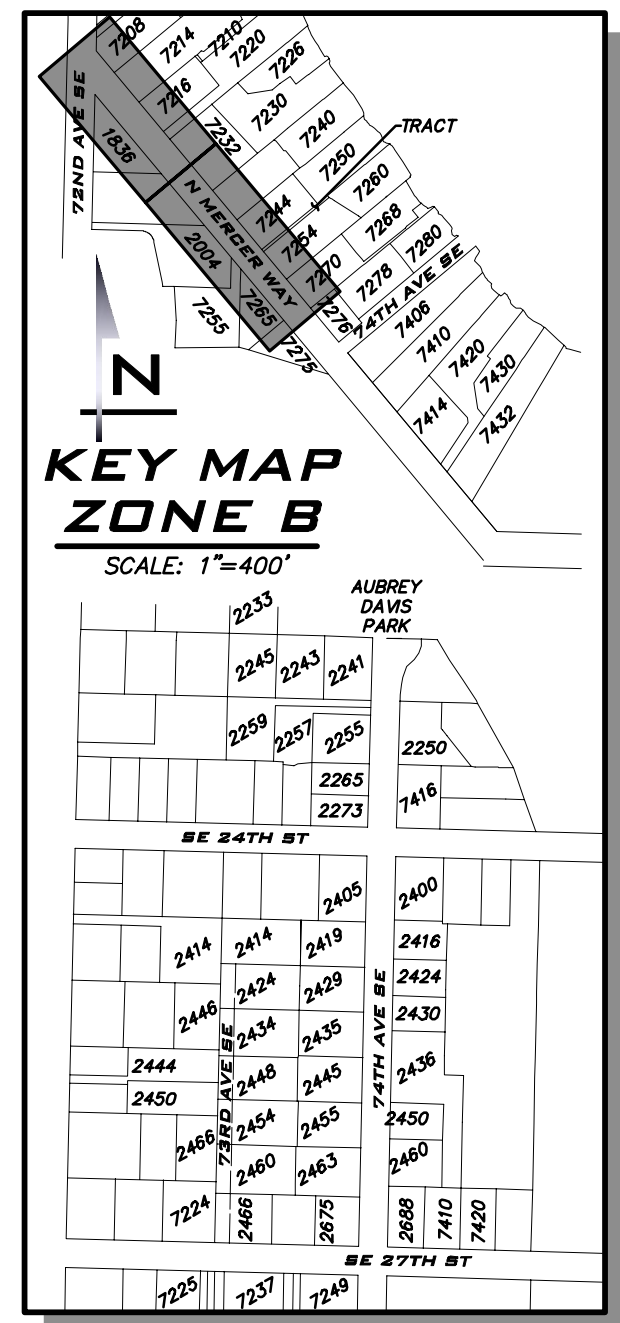
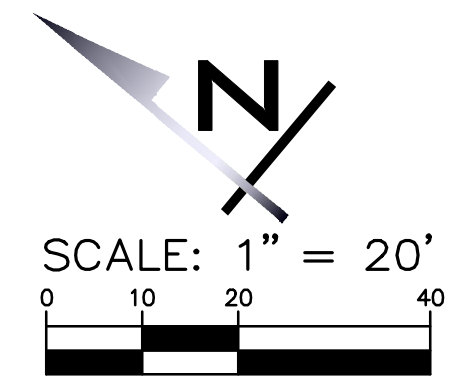


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22-229

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RR-07

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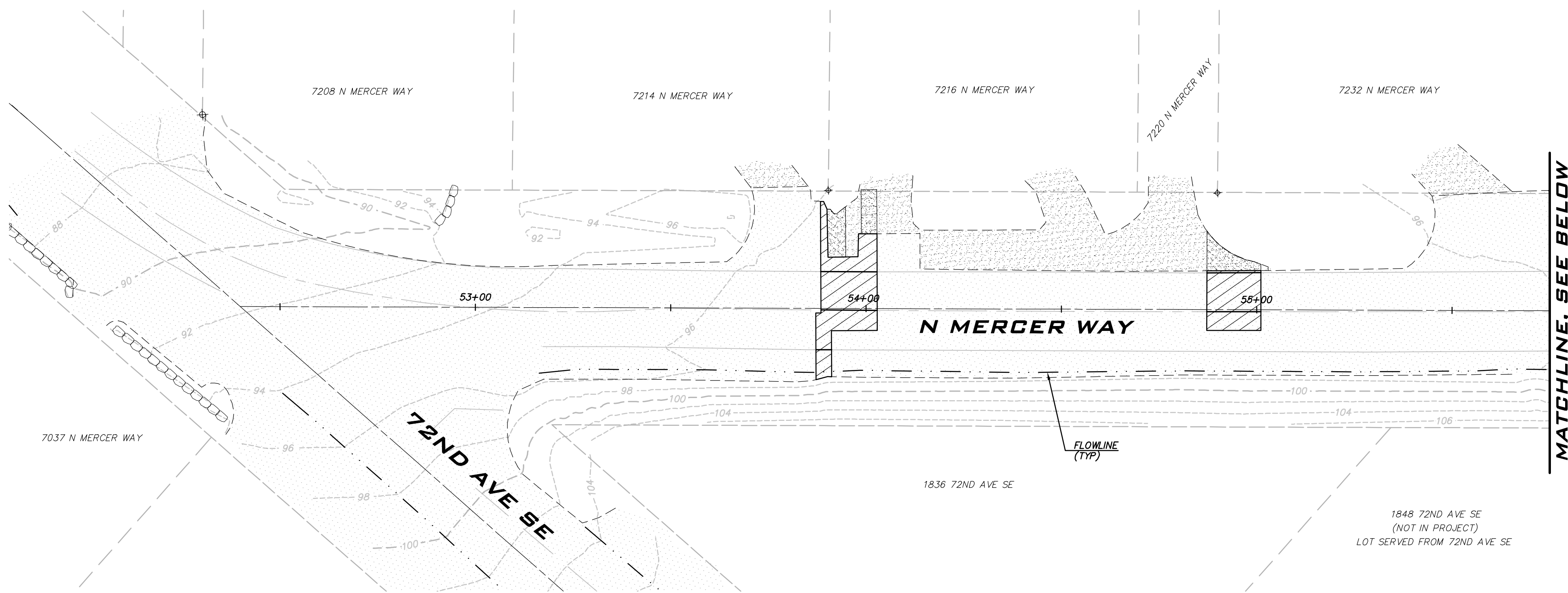
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AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

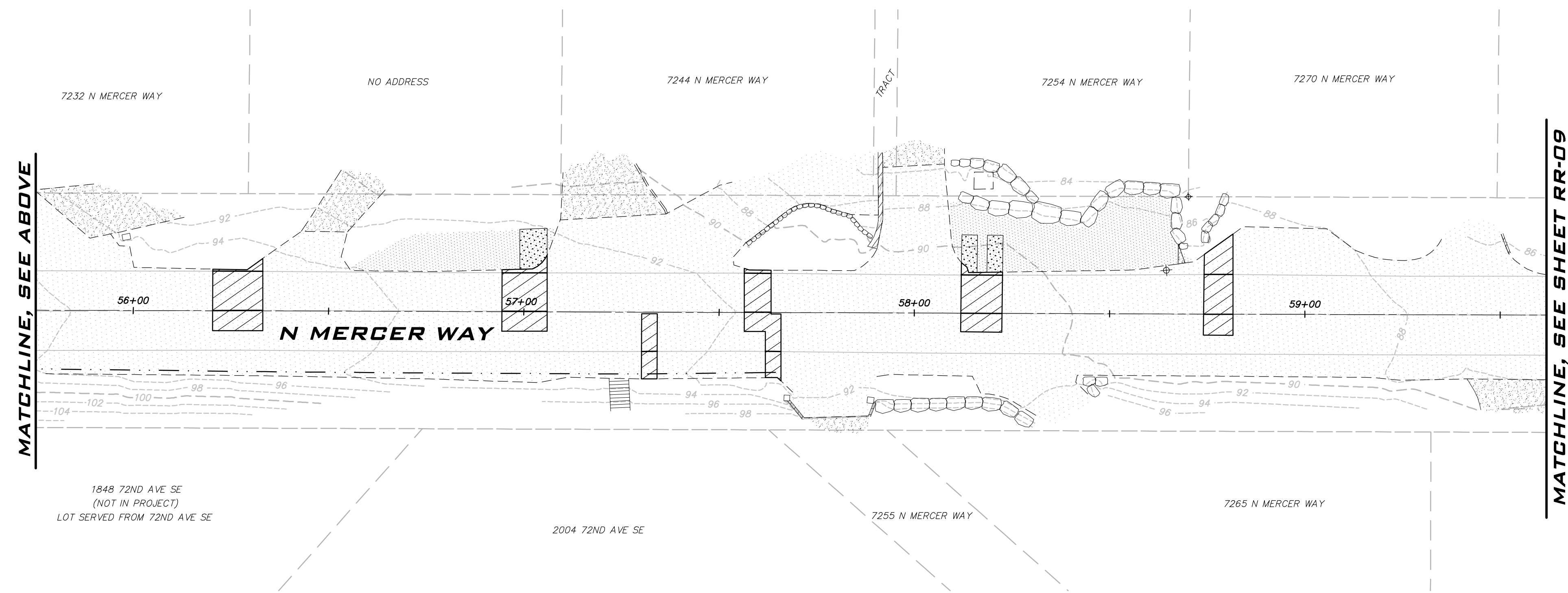
PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023



MATCHLINE, SEE BELOW



MATCHLINE, SEE ABOVE

MATCHLINE, SEE SHEET RR-09

LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
- CURB AND GUTTER

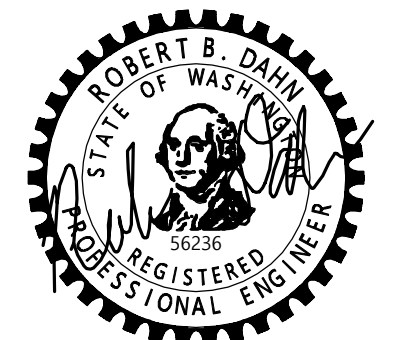
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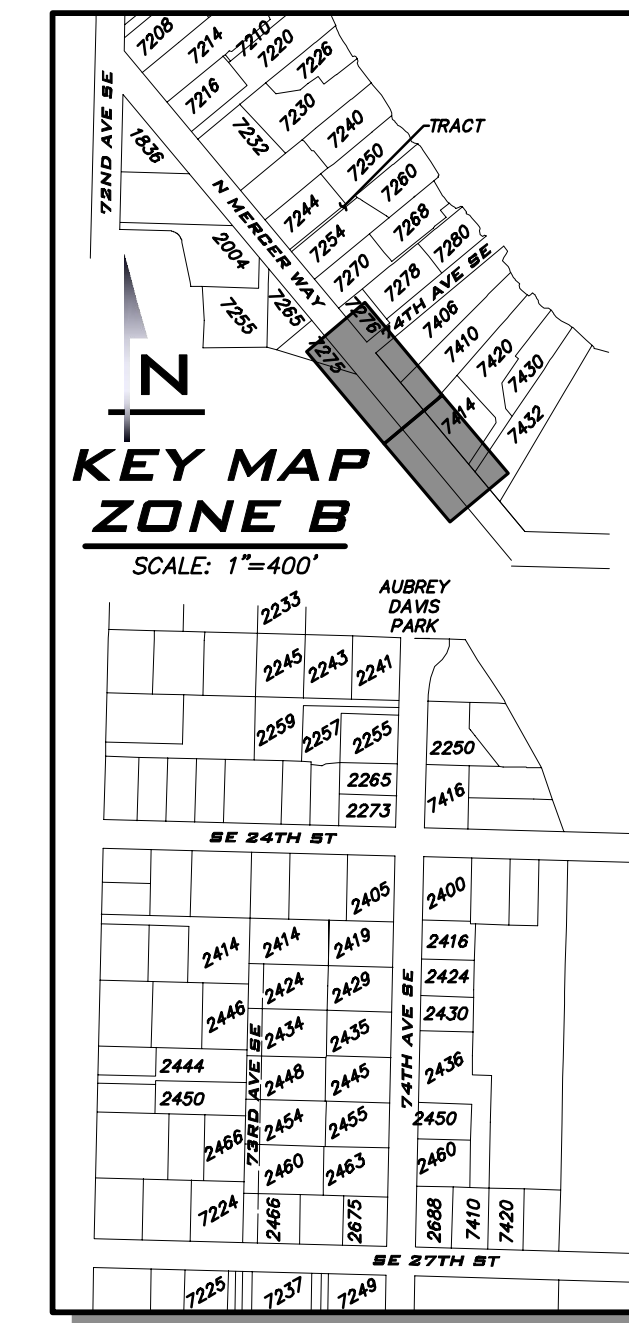
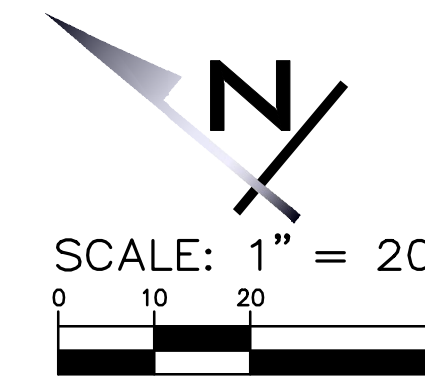
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NO	DATE	BY	REVISIONS

ROAD RESTORATION PLAN -
ZONE B
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

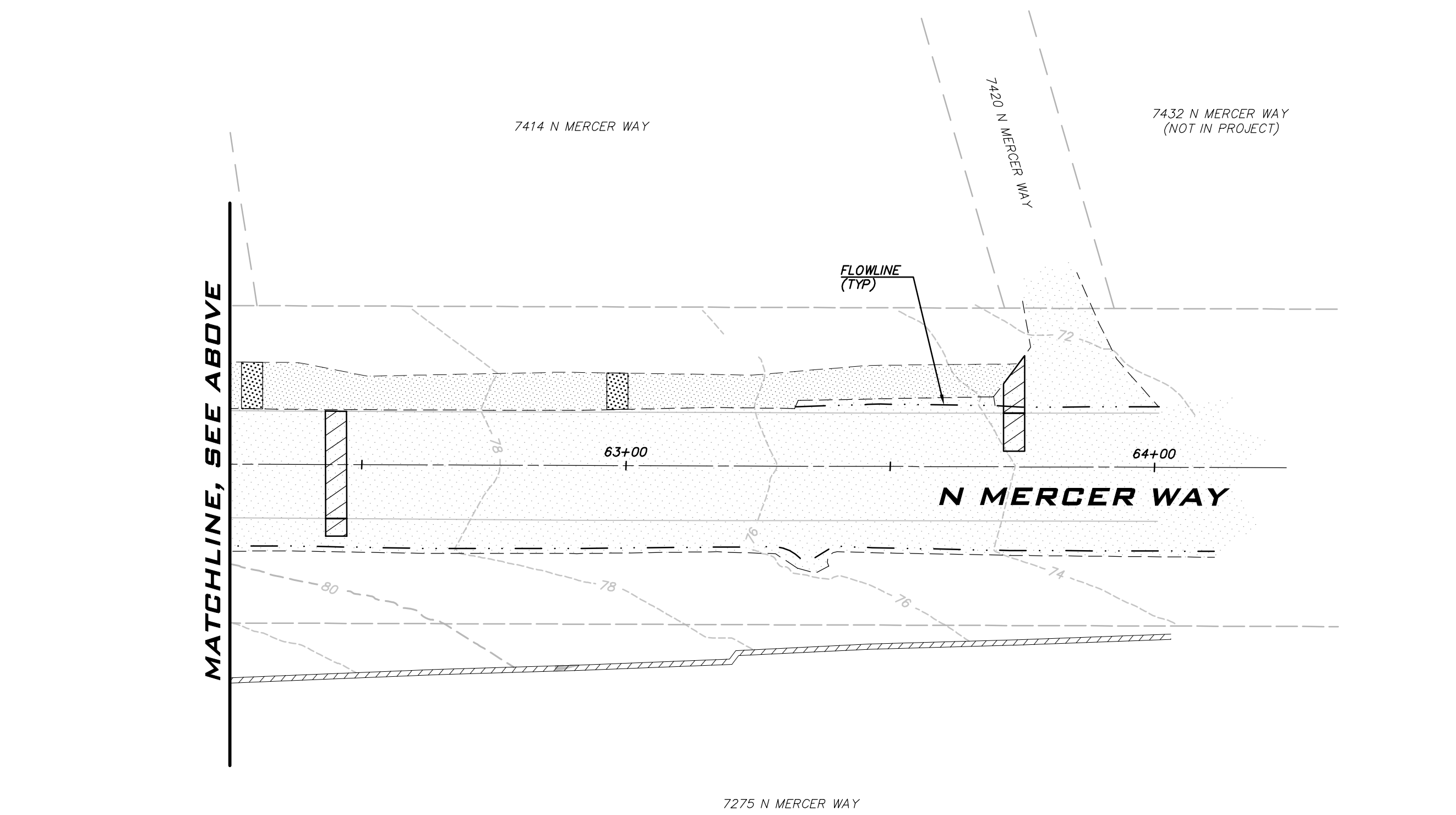
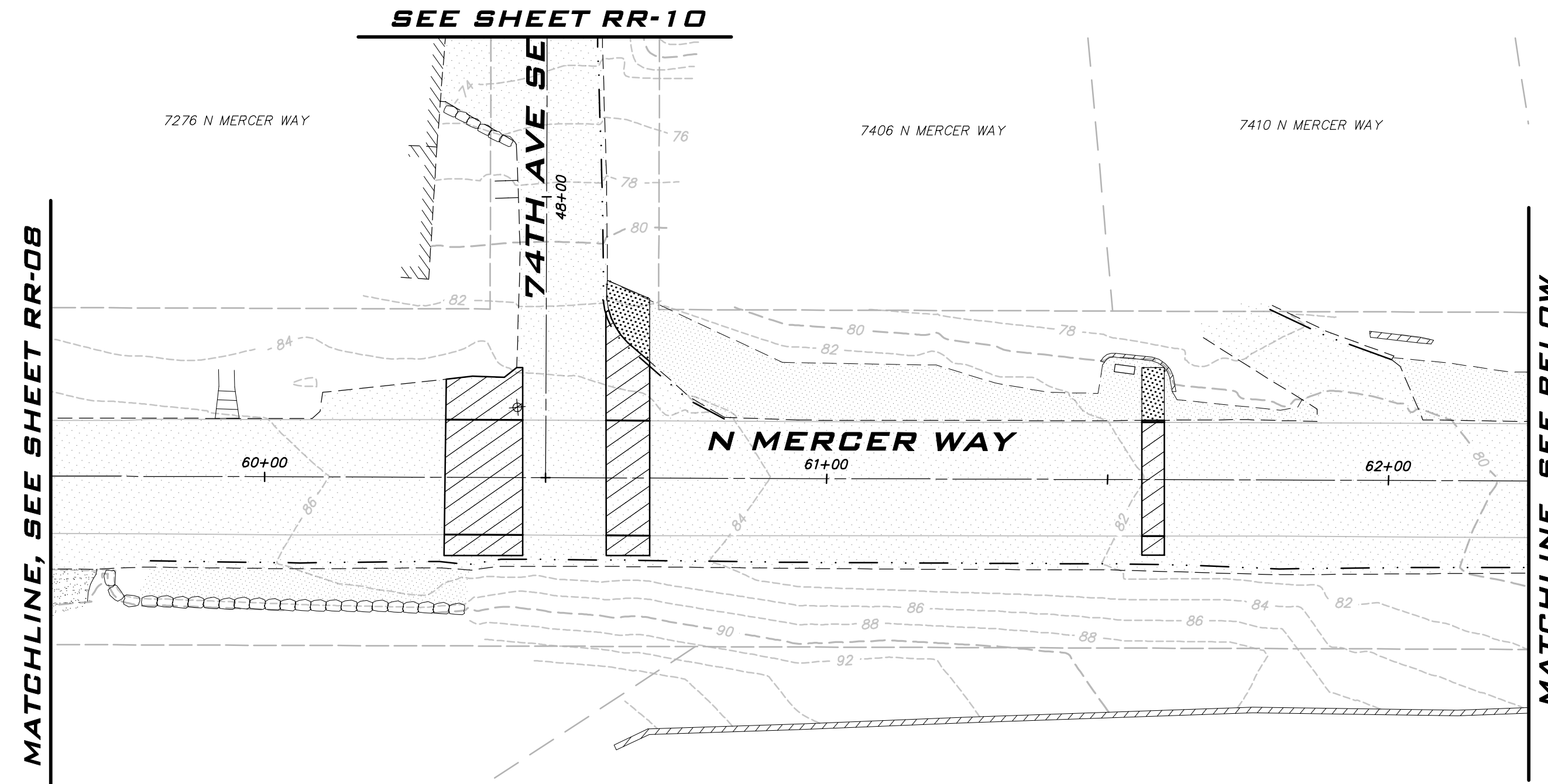


6/9/23
JOB NUMBER:
22-229
SHEET NAME:
RR-08



25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023



LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
- CURB AND GUTTER

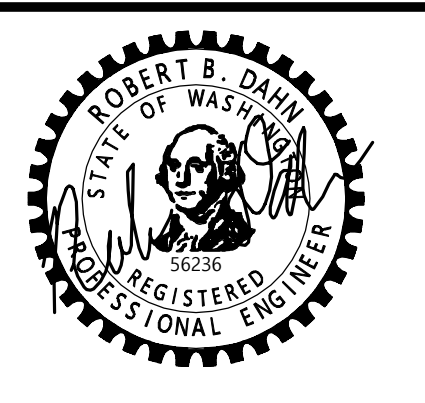
- NOTES**
1. THE LOCATION OF THE PAVEMENT RESTORATION SHOWN IS APPROXIMATE ONLY AND THE EXACT LOCATION SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION INSPECTOR DURING CONSTRUCTION.
 2. CONTRACTOR IS RESPONSIBLE FOR BARRICADES & SIGNS OR OTHER NOTIFICATIONS AS APPROPRIATE IN ORDER TO ENSURE THAT RESIDENTS REMOVE AUTOMOBILES OR OTHER OBSTRUCTIONS FROM THE ROAD PRIOR TO PAVEMENT RESTORATION.

EXISTING UTILITY NOTE

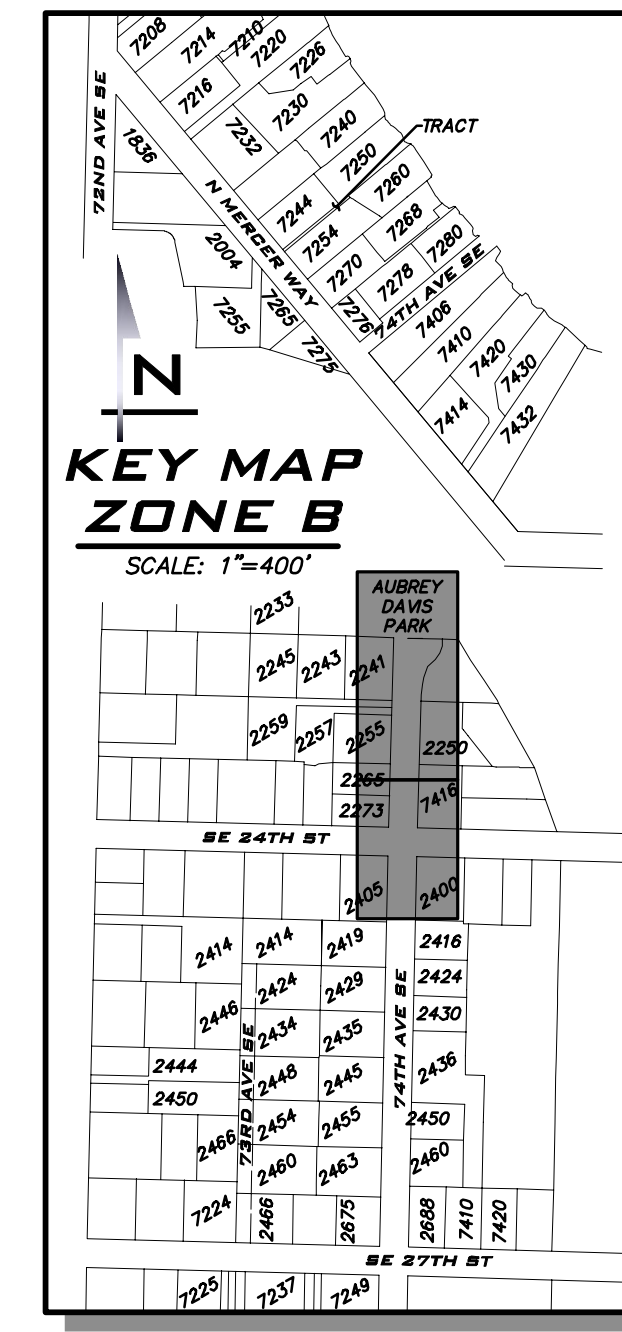
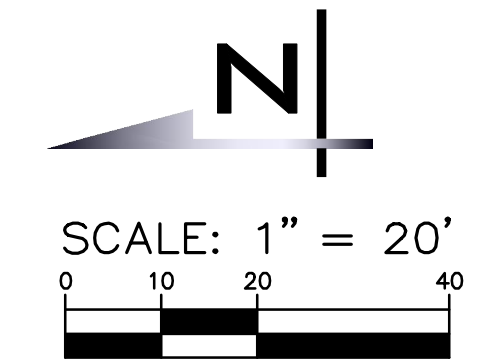
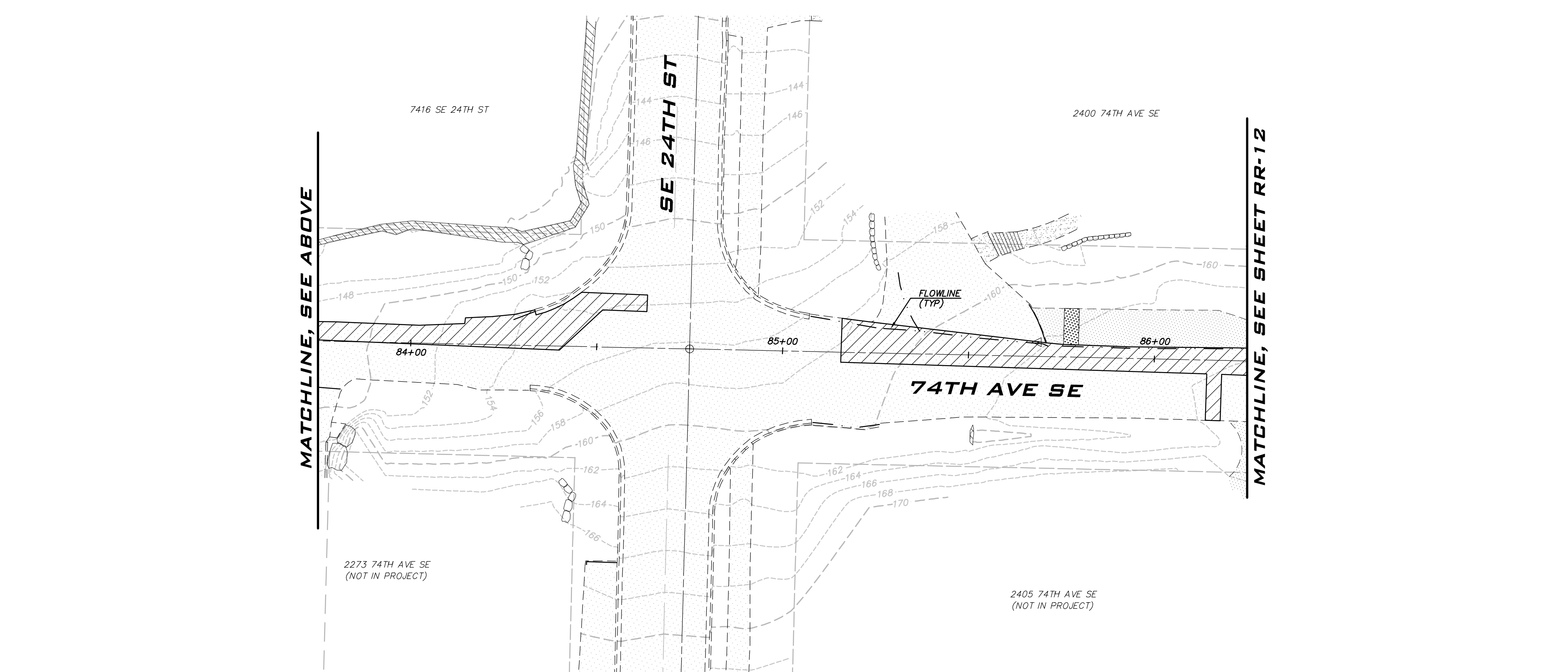
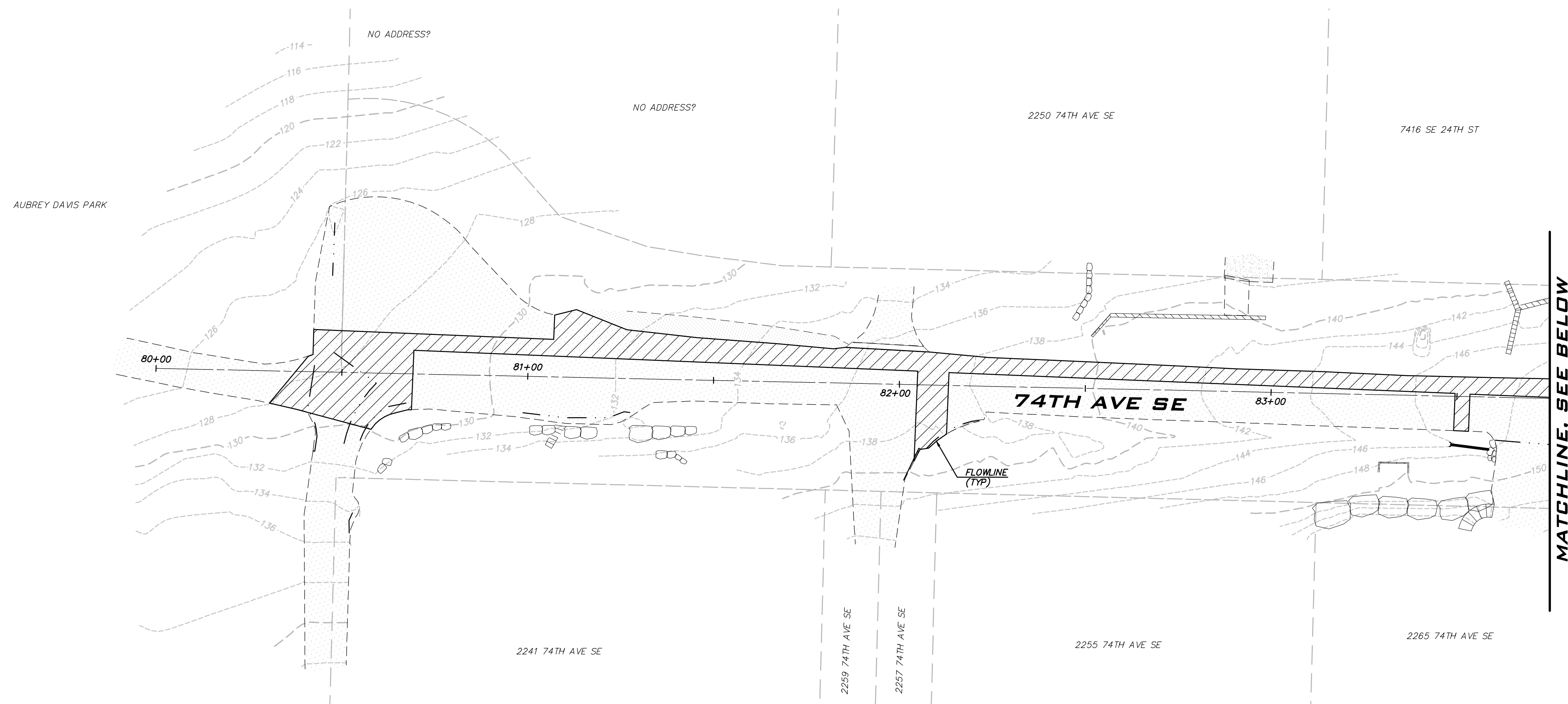
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NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
ZONE B
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**
 CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
RR-09



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
- CURB AND GUTTER

NOTES

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**ROAD RESTORATION PLAN -
ZONE B
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**

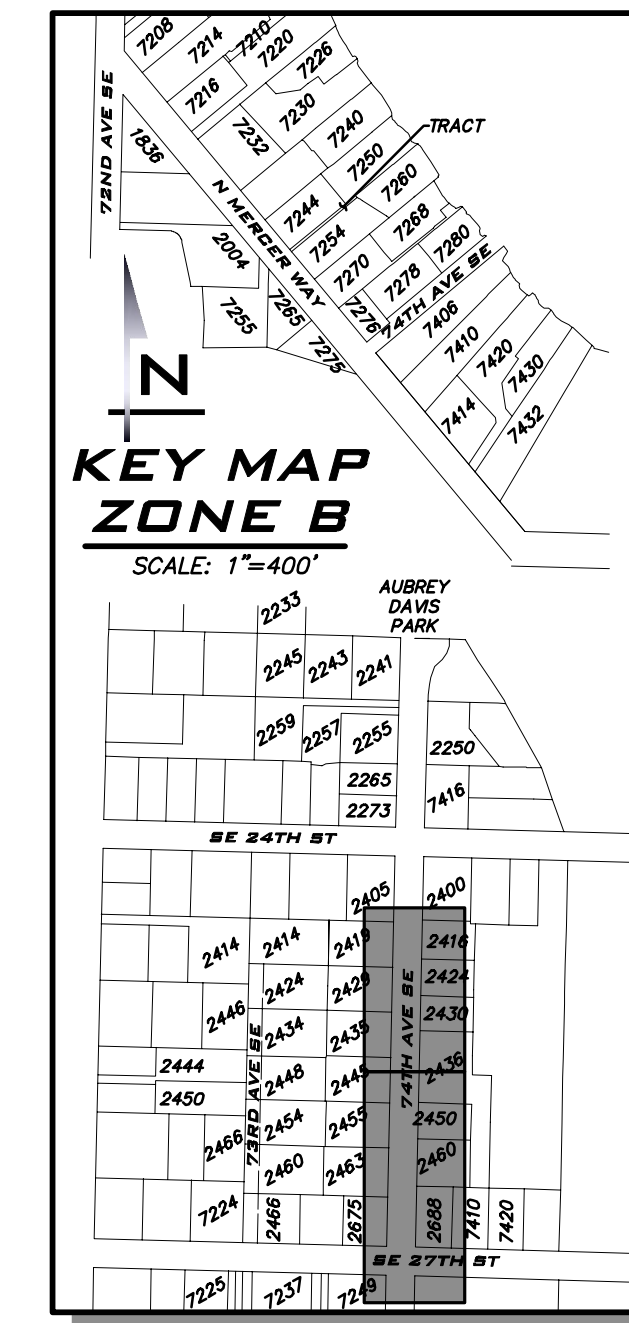
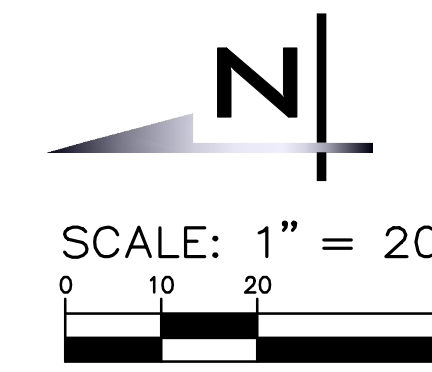
CITY OF MERCER ISLAND WASHINGTON

6/9/23

JOB NUMBER:
22-229

SHEET NAME:
RR-11

SHT **54** OF **68**



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

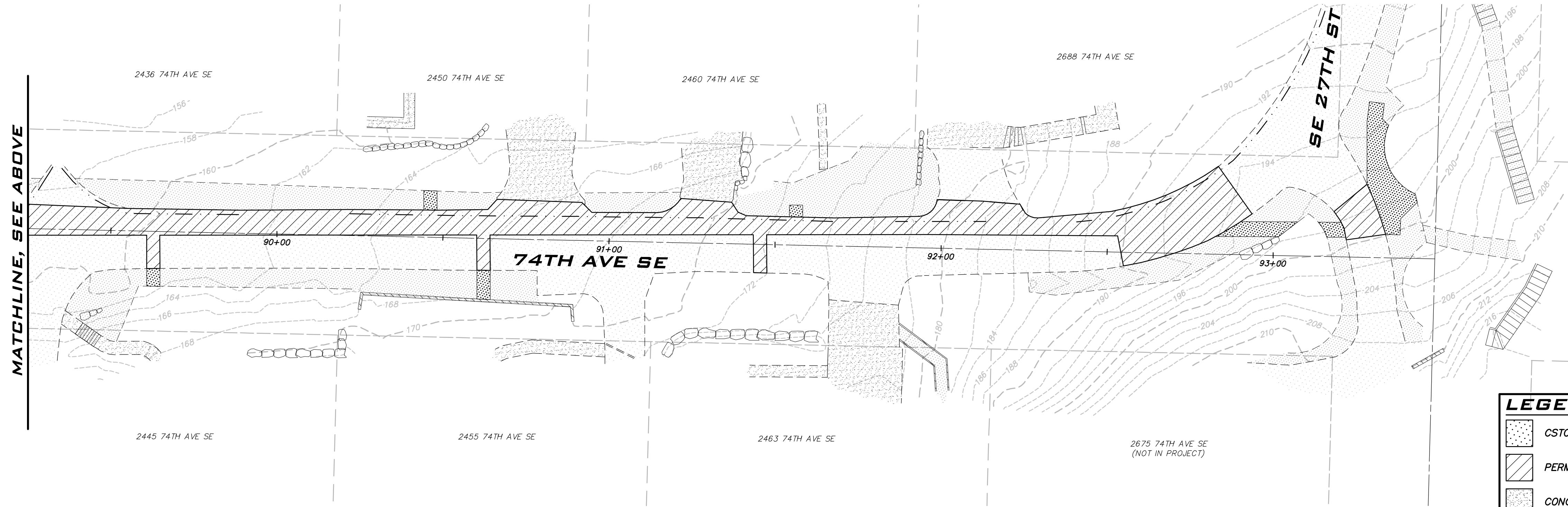
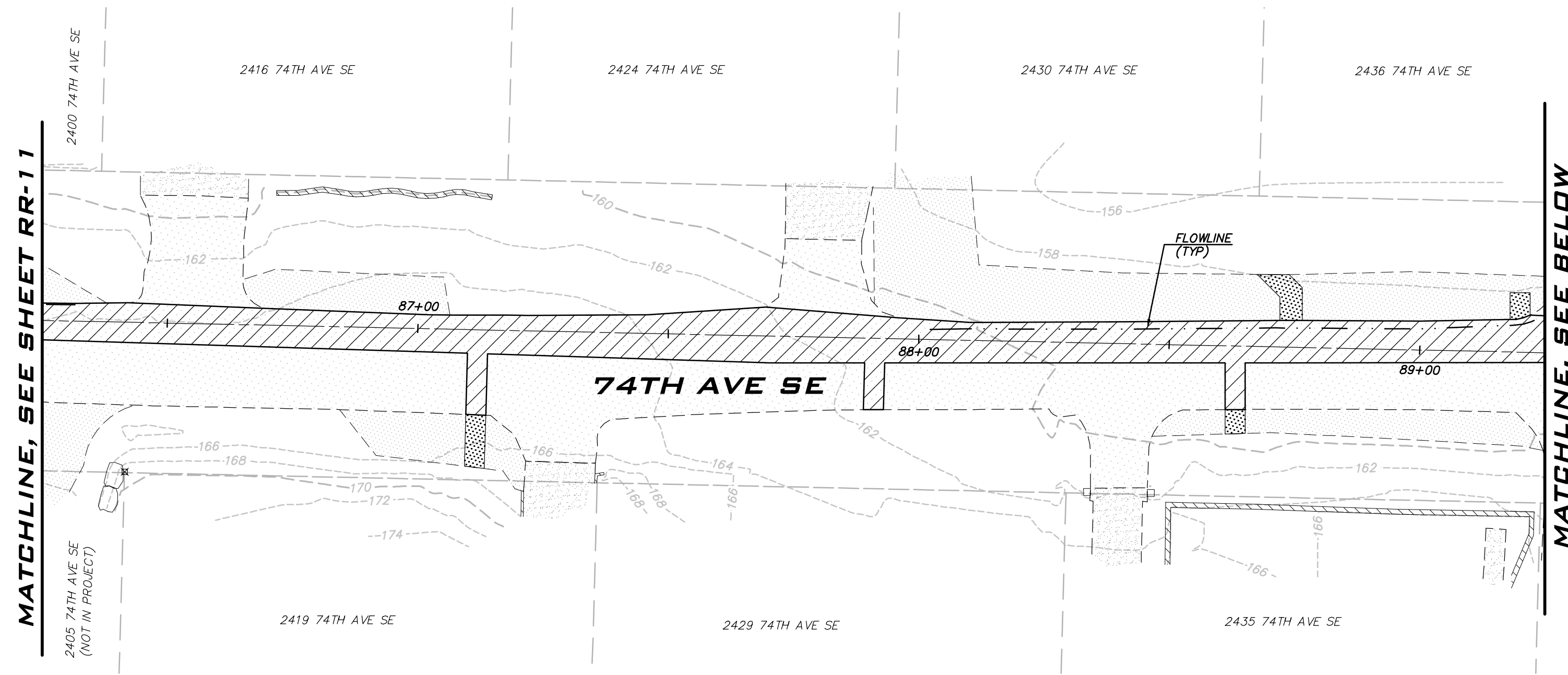
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023



LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
- CURB AND GUTTER

NOTES

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NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
ZONE B
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**
 CITY OF MERCER ISLAND WASHINGTON

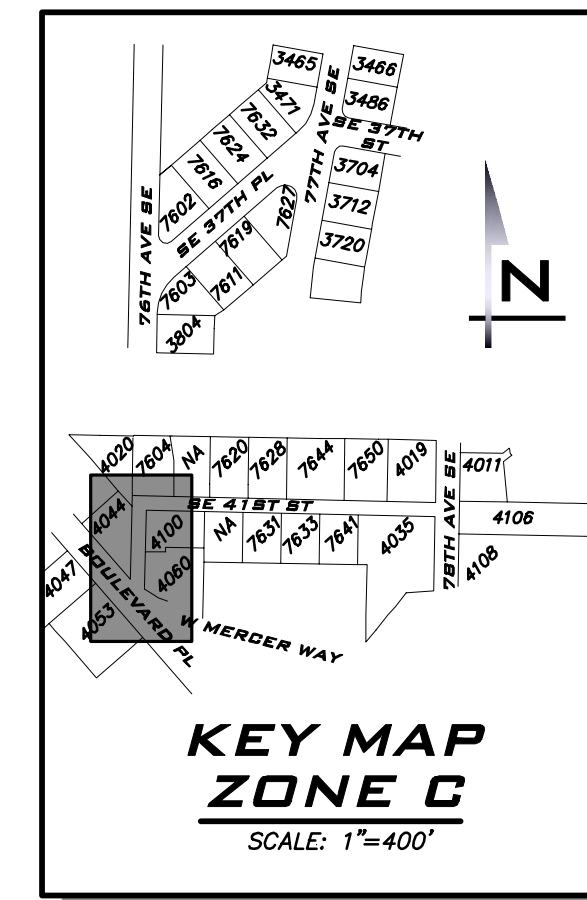
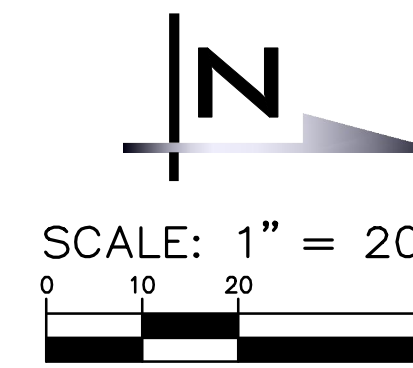


6/9/23

JOB NUMBER:
22-229

SHEET NAME:
RR-12

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P: 425.216.4051 F: 425.216.4052
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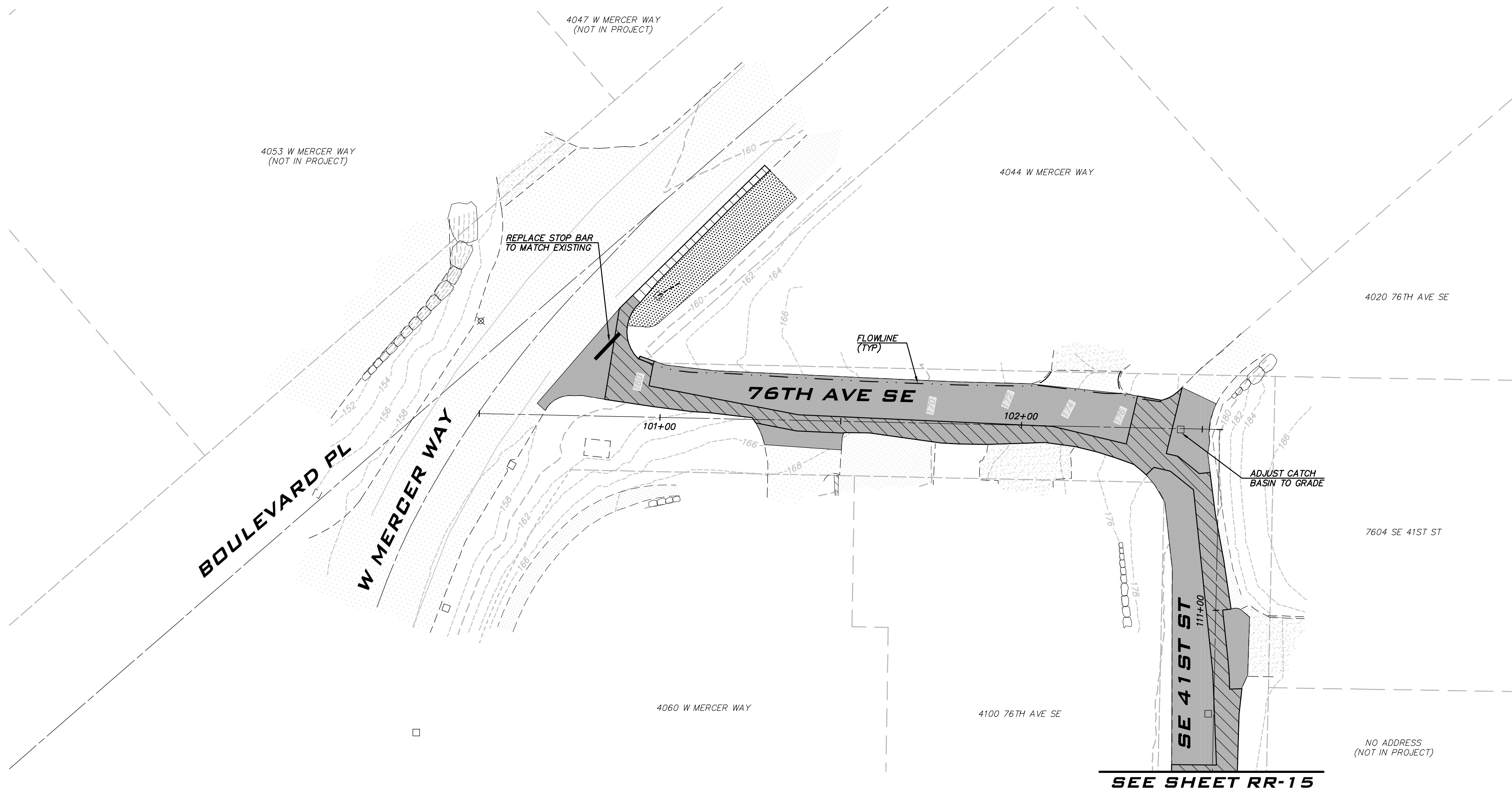
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023



NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
ZONE C
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**
 CITY OF MERCER ISLAND WASHINGTON

LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
- CURB AND GUTTER

NOTES

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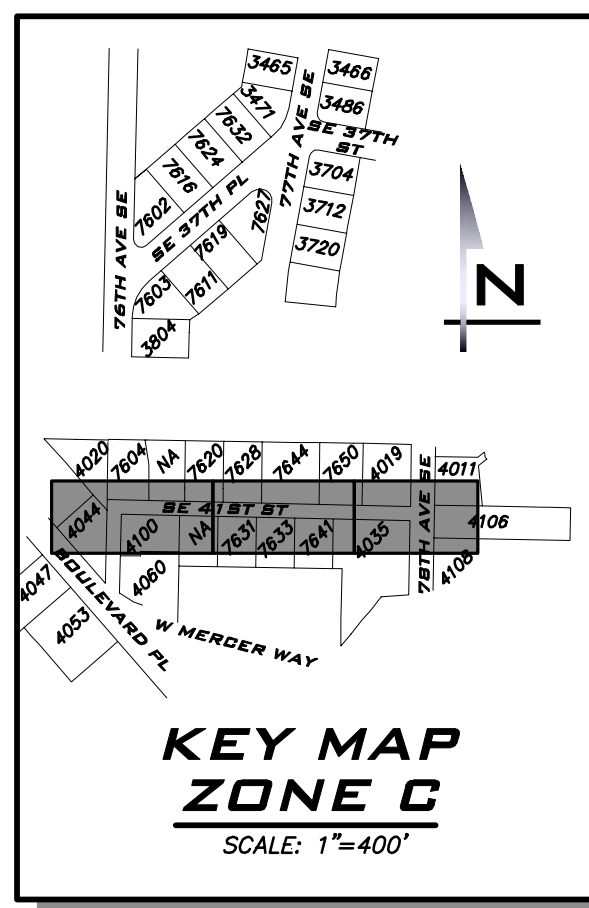
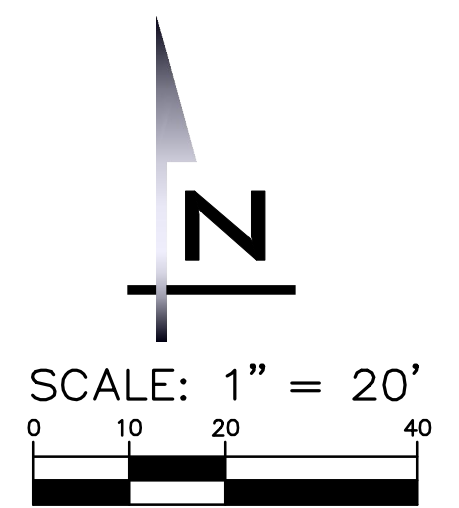
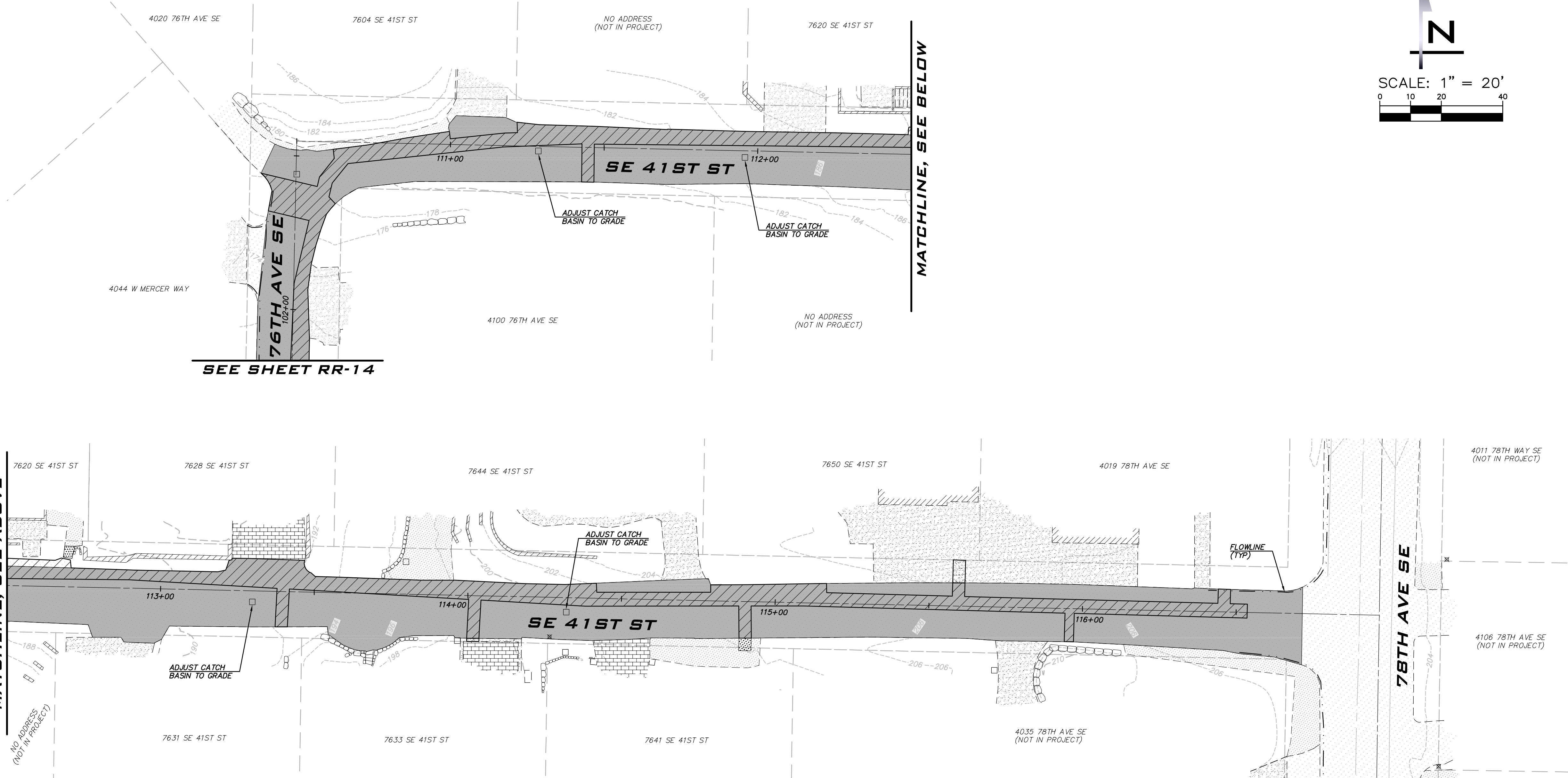
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6/9/23

JOB NUMBER:
22-229

SHEET NAME:
RR-13

SHT **56** OF **68**



BLUELINE
25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
ZONE C
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**
CITY OF MERCER ISLAND WASHINGTON

LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
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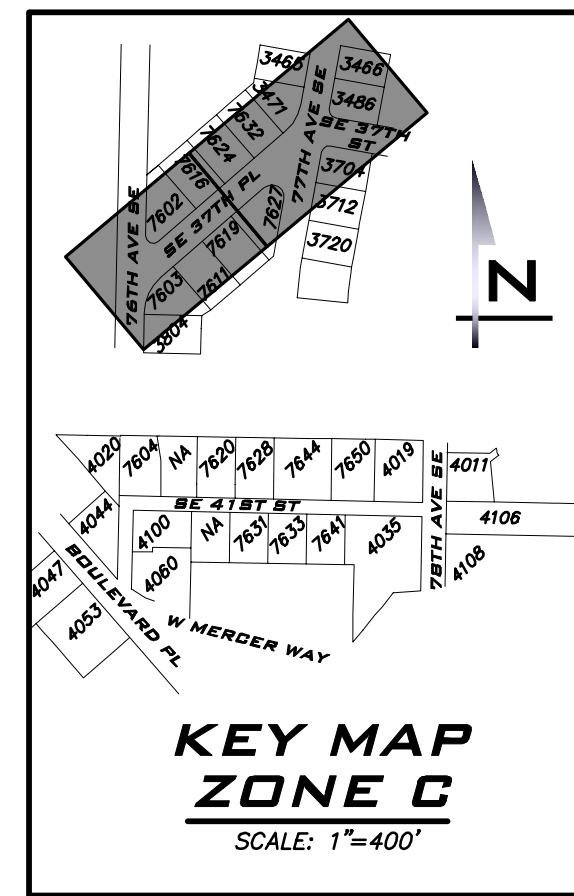
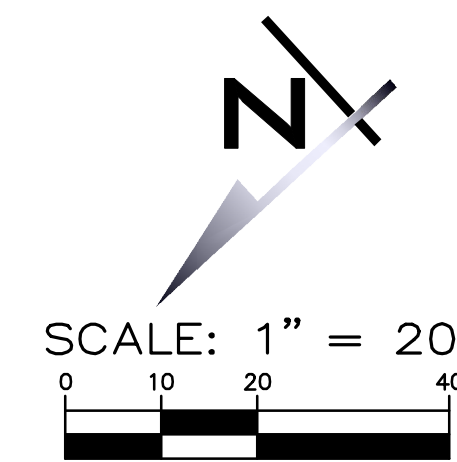
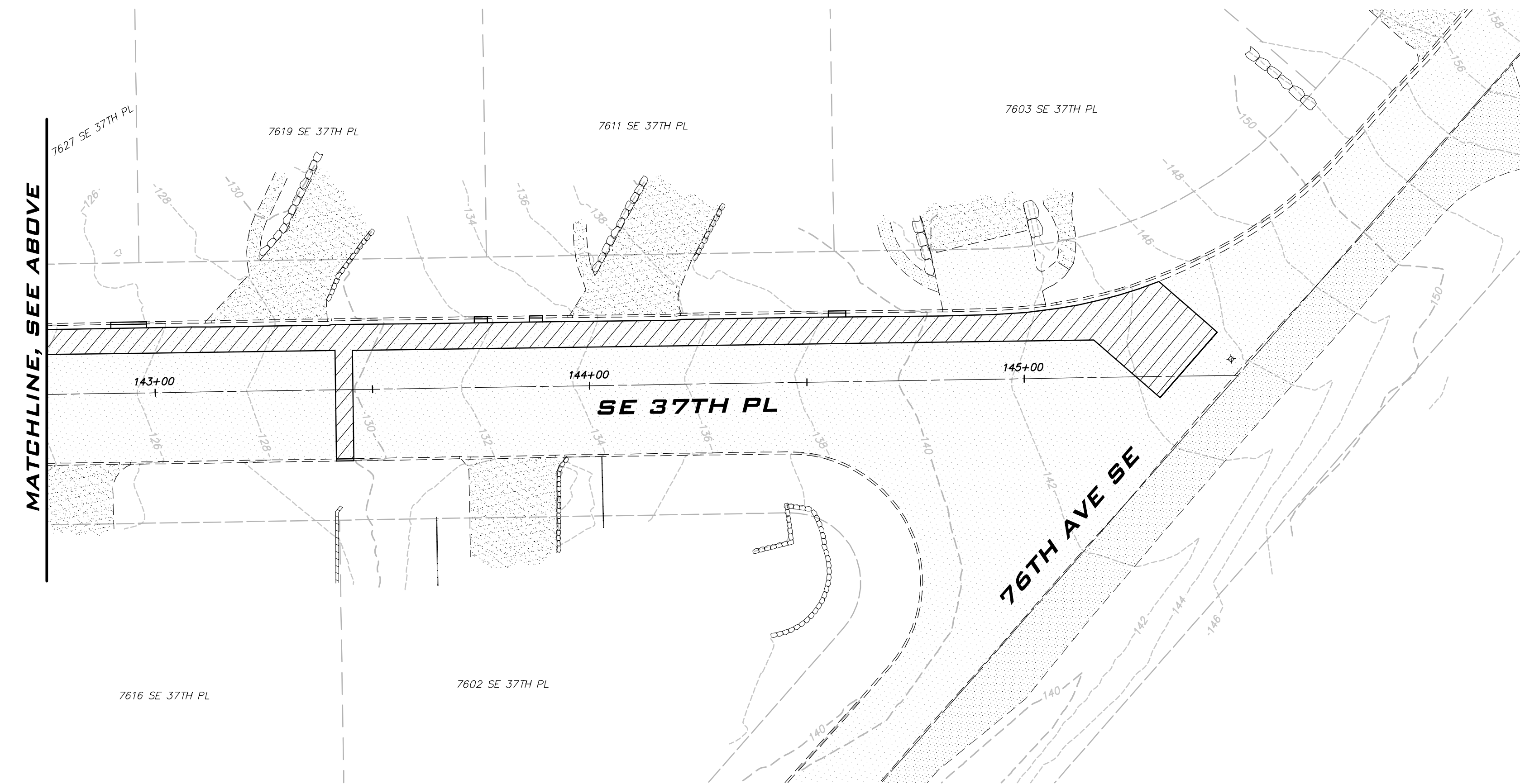
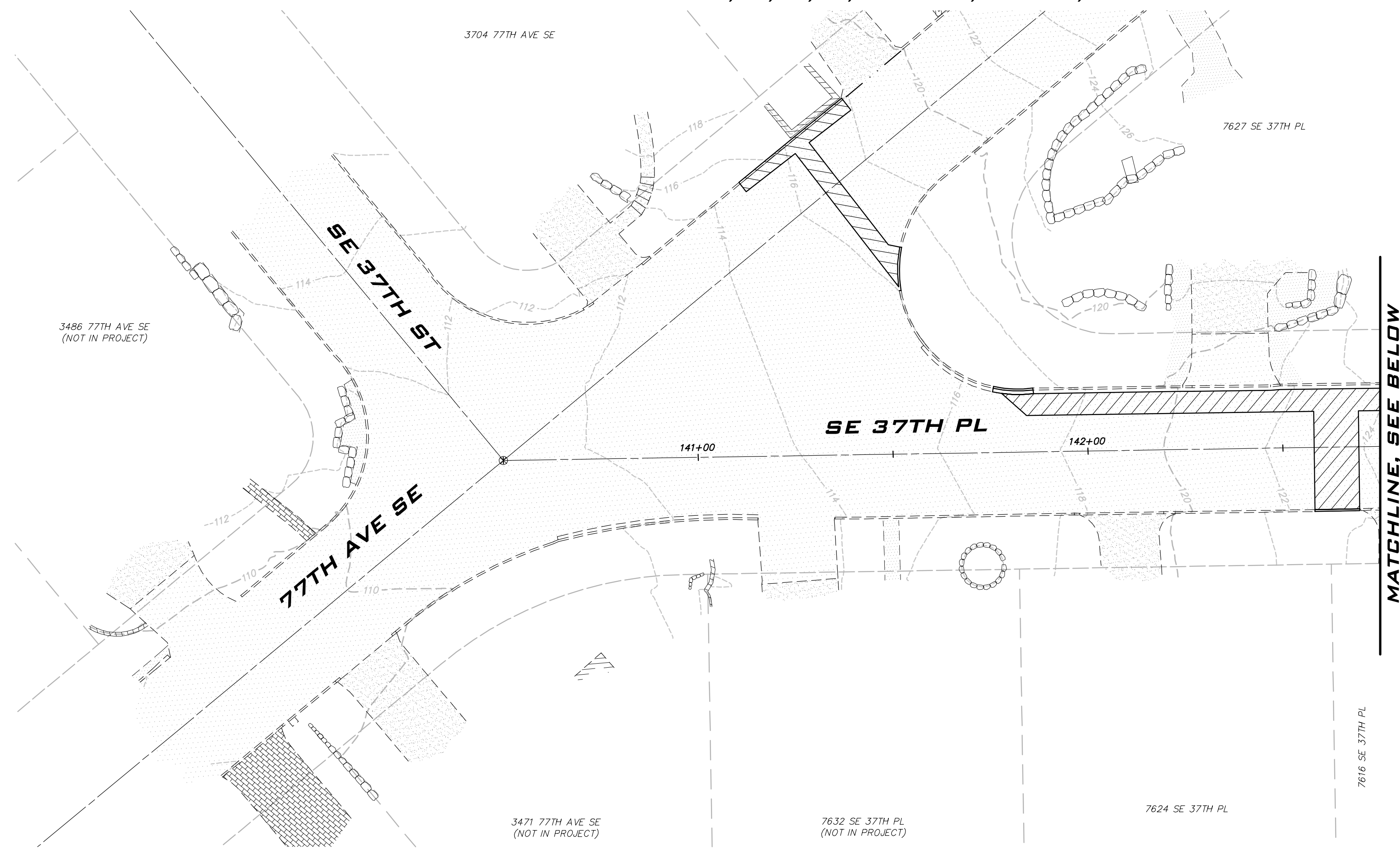
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6/9/23

JOB NUMBER:
22-229

SHEET NAME:
RR-14

SHT **57** OF **68**



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
ZONE C
2023 WATER SYSTEM
IMPROVEMENTS PROJECT**

CITY OF MERGER ISLAND WASHINGTON

LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- CONCRETE
- 4" GRIND & OVERLAY. RECOMPACT BASE BEFORE PLACING HMA. PLACE HMA FOR INVERTED CROWN.
- CURB AND GUTTER

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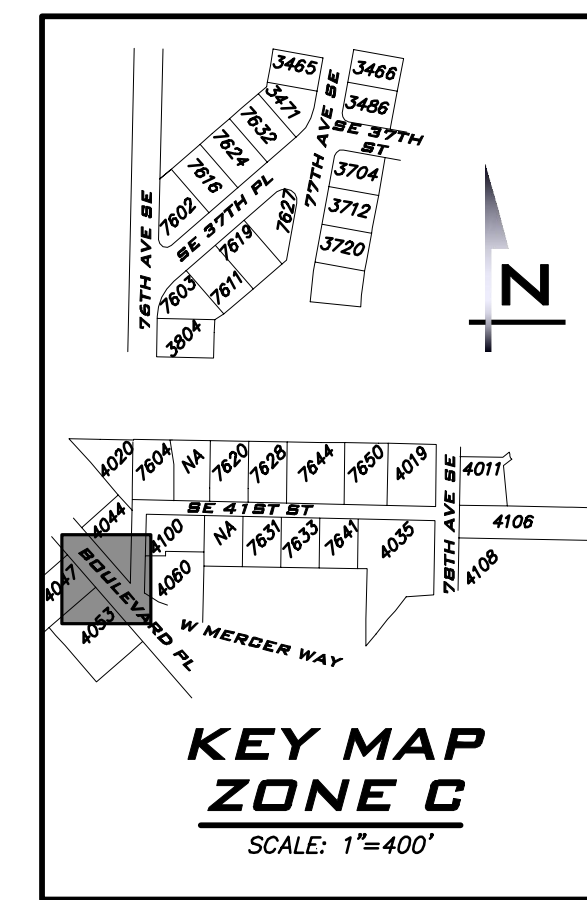
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6/9/23

JOB NUMBER:
22-229

SHEET NAME:
RR-15

SHT **58** OF **68**



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KIRKLAND, WA 98033
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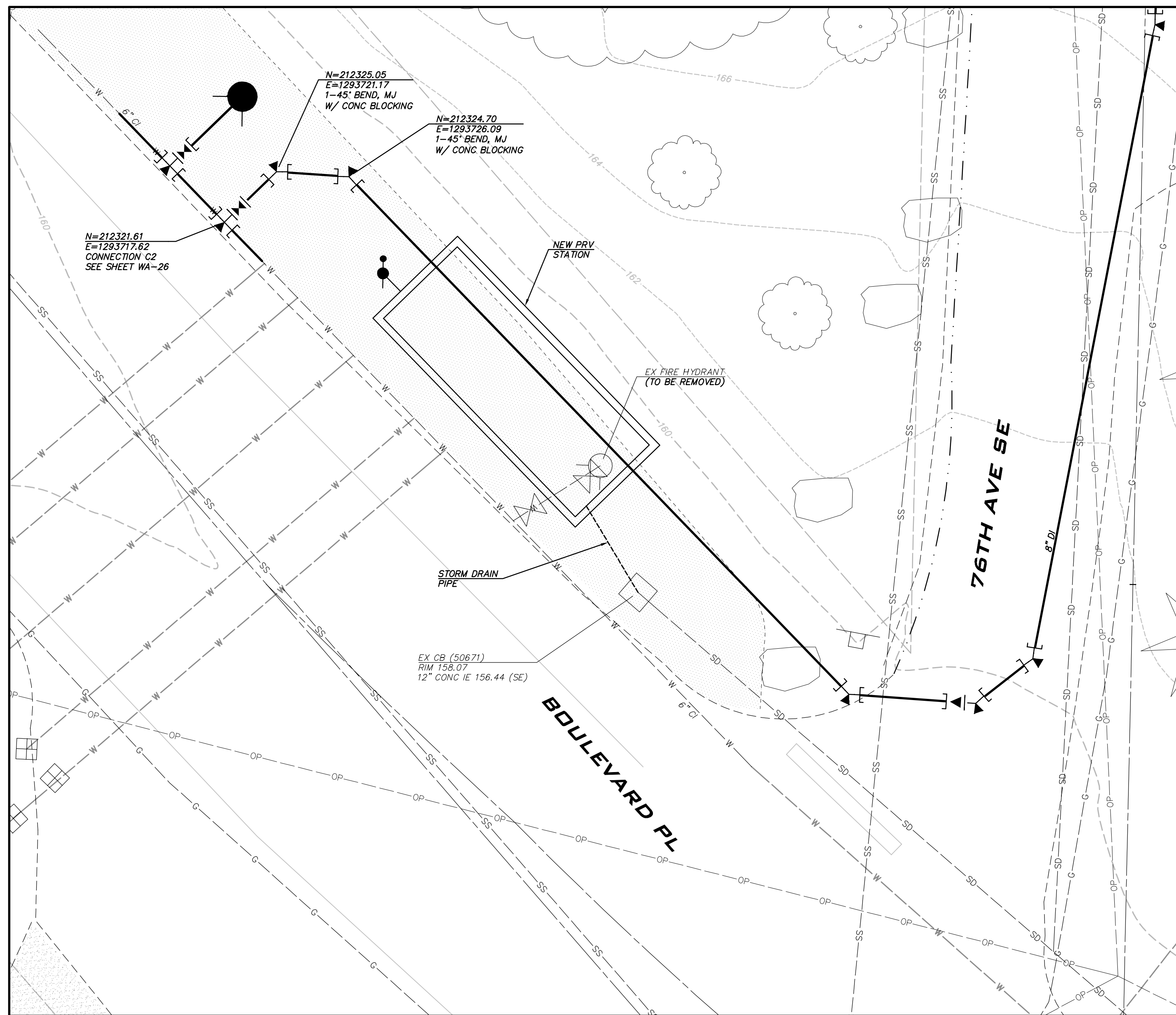
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
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ISSUE DATE:
6/9/2023

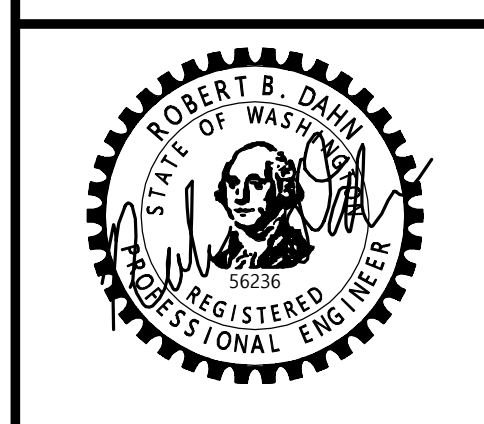


PRV PLAN VIEW
SCALE: 1" = 5'



NO	DATE	BY	REVISIONS

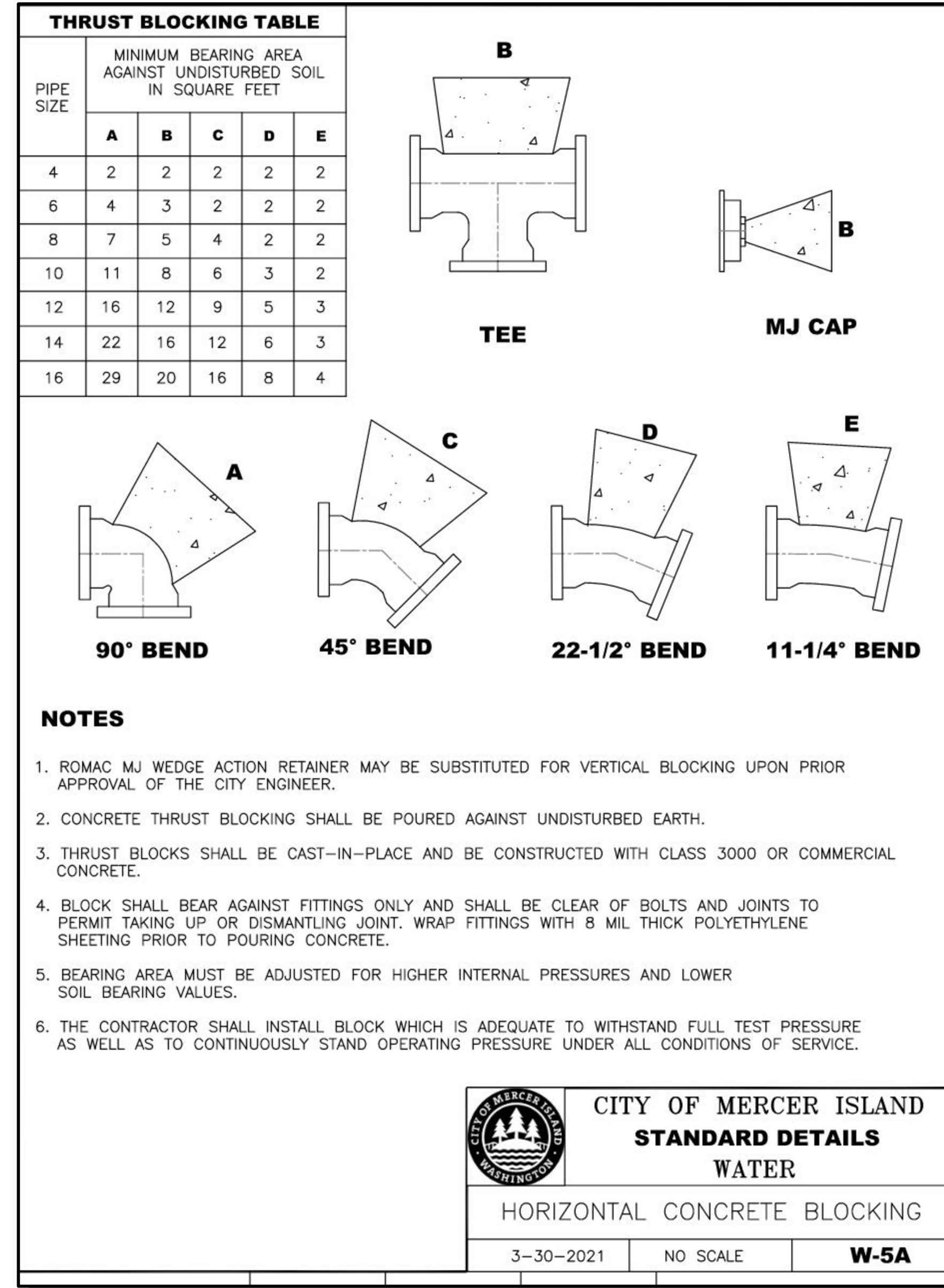
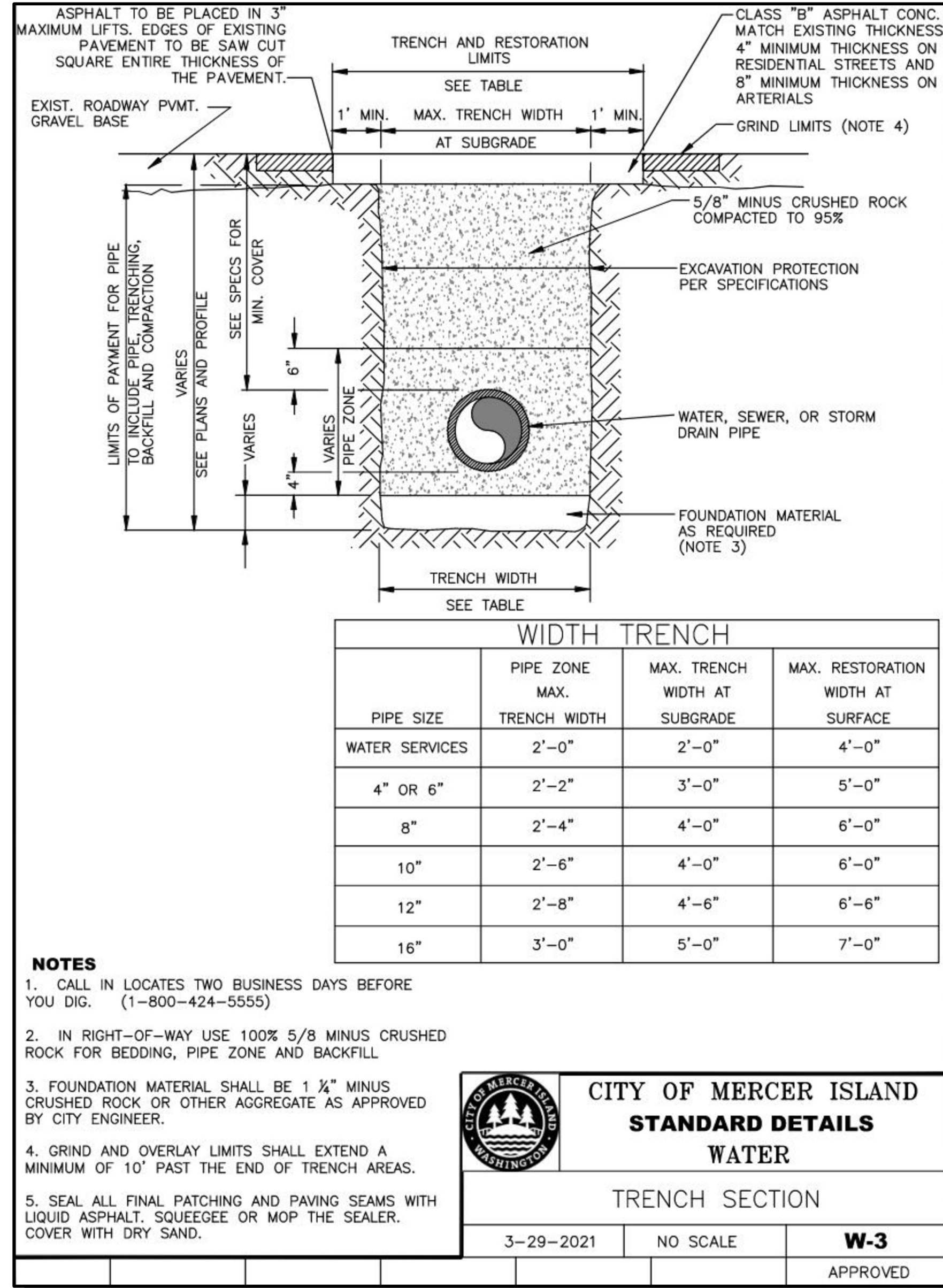
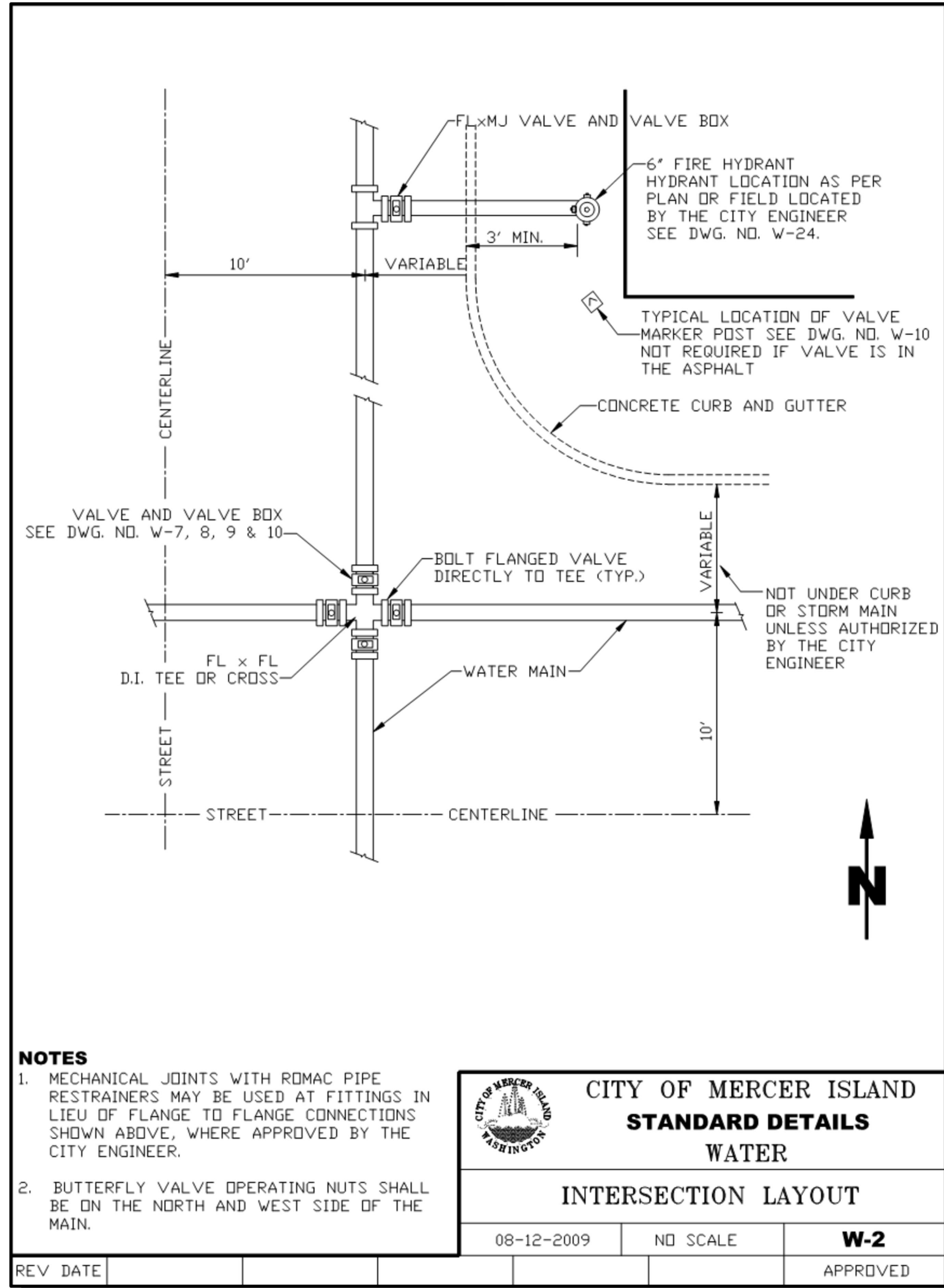
PRV DETAIL
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
 CITY OF MERGER ISLAND WASHINGTON



6/9/23
 JOB NUMBER:
22-229
 SHEET NAME:
PR-01

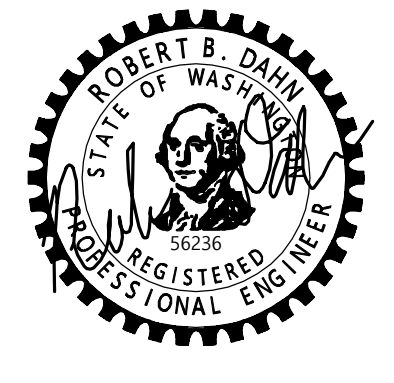
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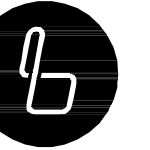


NO	DATE	BY	REVISIONS

**STANDARD DETAILS
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON**



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
DT-01
SHT **60** OF **68**



BLUELINE

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SCALE:
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GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

VERTICAL THRUST BLOCKING FOR 11 1/4" - 22 1/2" - 45"						
PIPE SIZE NOM. DIAMETER - INCHES	TEST PRESSURE P.S.I.	VERTICAL BEND DEGREES	AMOUNT CONCRET BLOCKING - CU. FT.	LENGTH OF SIDE FEET	SHACKLE ROD DIA. - INCHES	DEPTH OF ROD IN CONCRETE INCHES
3"	250	11-1/4	3.4	1.5	5/8"	12"
		22-1/2	5.4	1.75	5/8"	12"
		45	11.4	2.25	5/8"	12"
4"	250	11-1/4	5.4	1.75	5/8"	12"
		22-1/2	11.4	2.25	5/8"	12"
		45	20.8	2.75	5/8"	12"
6"	250	11-1/4	11.4	2.25	5/8"	12"
		22-1/2	27.0	3.0	5/8"	12"
		45	42.9	3.5	5/8"	12"
8"	250	11-1/4	20.8	2.75	5/8"	12"
		22-1/2	64.0	4.0	5/8"	12"
		45	76.8	4.25	5/8"	12"
10"	250	11-1/4	34.3	3.25	5/8"	12"
		22-1/2	91.1	4.5	5/8"	12"
		45	125	5.0	5/8"	12"
12"	250	11-1/4	42.9	3.5	5/8"	12"
		22-1/2	125	5.0	5/8"	12"
		45	166	5.5	5/8"	12"
14"	250	11-1/4	52.7	3.75	3/4"	24"
		22-1/2	107	4.75	3/4"	24"
		45	190	5.75	3/4"	24"
16"	250	11-1/4	64.0	4.0	3/4"	24"
		22-1/2	125	5.0	3/4"	24"
		45	216	6.0	3/4"	24"
18"	250	11-1/4	64.0	4.0	3/4"	24"
		22-1/2	145	5.25	3/4"	24"
		45	244	6.25	3/4"	24"

NOTES

- CONCRETE SHALL BE 3000 PSI CONCRETE
- SHACKLE RODS/ALL THREAD SHALL BE ZINC PLATED. REFER TO CHART FOR SIZE AND NUMBER OF SHACKLE RODS. REFER TO PIPE CLAMP FOR INSTALLATION OF SHACKLE ROD. AFTER CONCRETE IS PLACED, 24 HOURS LATER INSTALL NUT AND WASHER AND TIGHTEN SHACKLE RODS NUTS ON PIPE CLAMP.
- ANVIL PIPE CLAMP 595 FITS 4"-24" DIA.

CITY OF MERCER ISLAND
STANDARD DETAILS
WATER

VERTICAL CONCRETE BLOCKING

3-30-2021 NO SCALE **W-5B**

VALVE BOX LID

VALVE BOX TOP

VALVE BOX BOTTOM

NOTES

- VALVE BOX SHALL BE OLYMPIC FOUNDRY PART NO. VB940 OR EQUAL.
- THE TOP AND LID SHALL HAVE A MACHINED FIT.
- LOCKING LID, WHEN REQUIRED, SHALL BE OLYMPIC FOUNDRY PART NO. 13-5200 OR EQUAL.

CITY OF MERCER ISLAND
STANDARD DETAILS
WATER

WATER VALVE BOX

3-20-2006 NO SCALE **W-7**

WATER VALVE BOX

NOTES

- VALVE BOX RISER WITH PAVING LUGS SHALL BE OLYMPIC NO. VB2 OR EQUAL.
- MINIMUM VALVE BOX BOTTOM LENGTH OVERALL = 21 1/16". SHORT RISERS ARE NOT PERMITTED.
- SEE DWG. NO. W-7 FOR DETAILS.

CITY OF MERCER ISLAND
STANDARD DETAILS
WATER

WATER VALVE BOX

12-23-2013 NO SCALE **W-8**

NO	DATE	BY	REVISIONS

STANDARD DETAILS
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

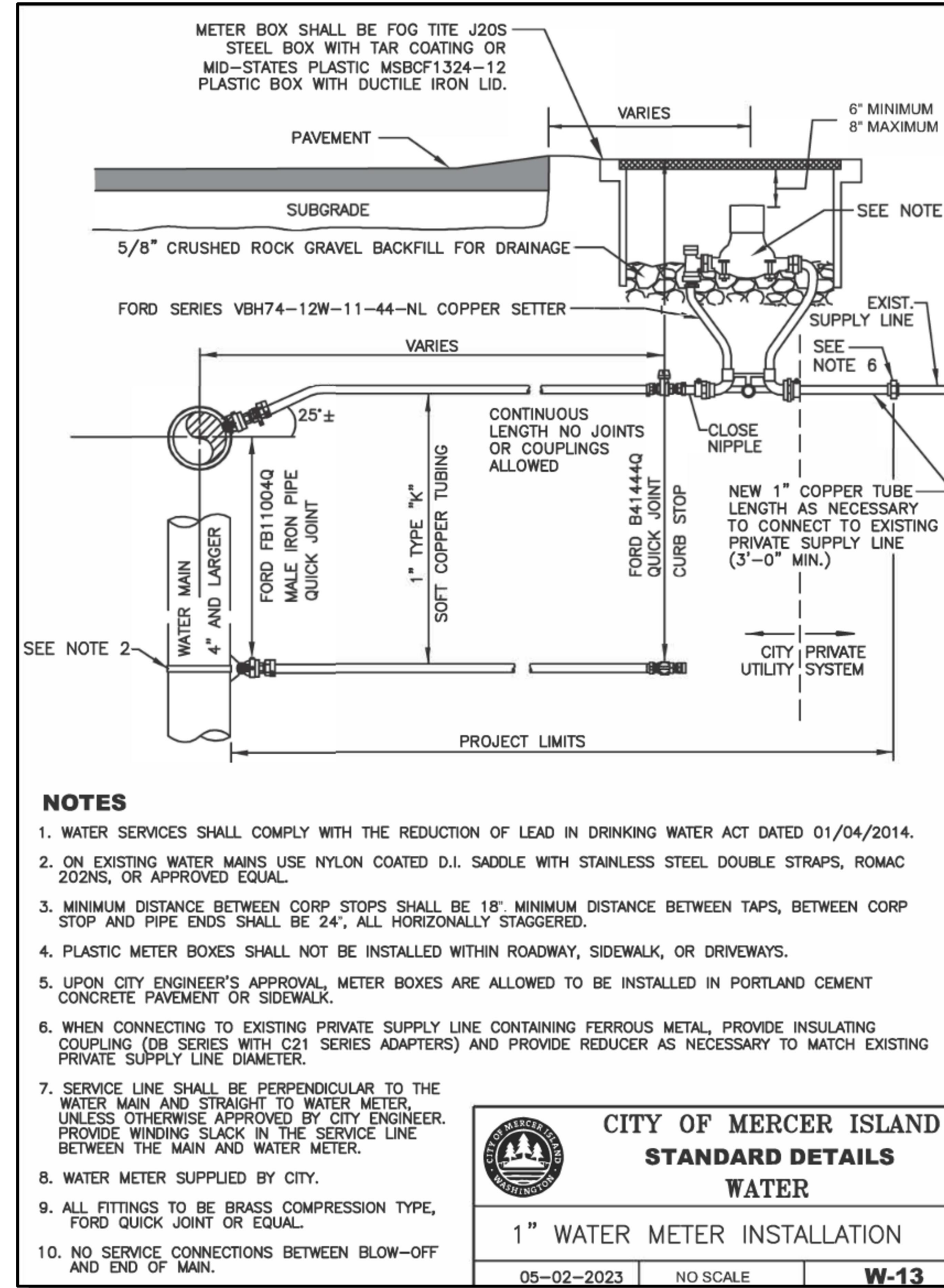
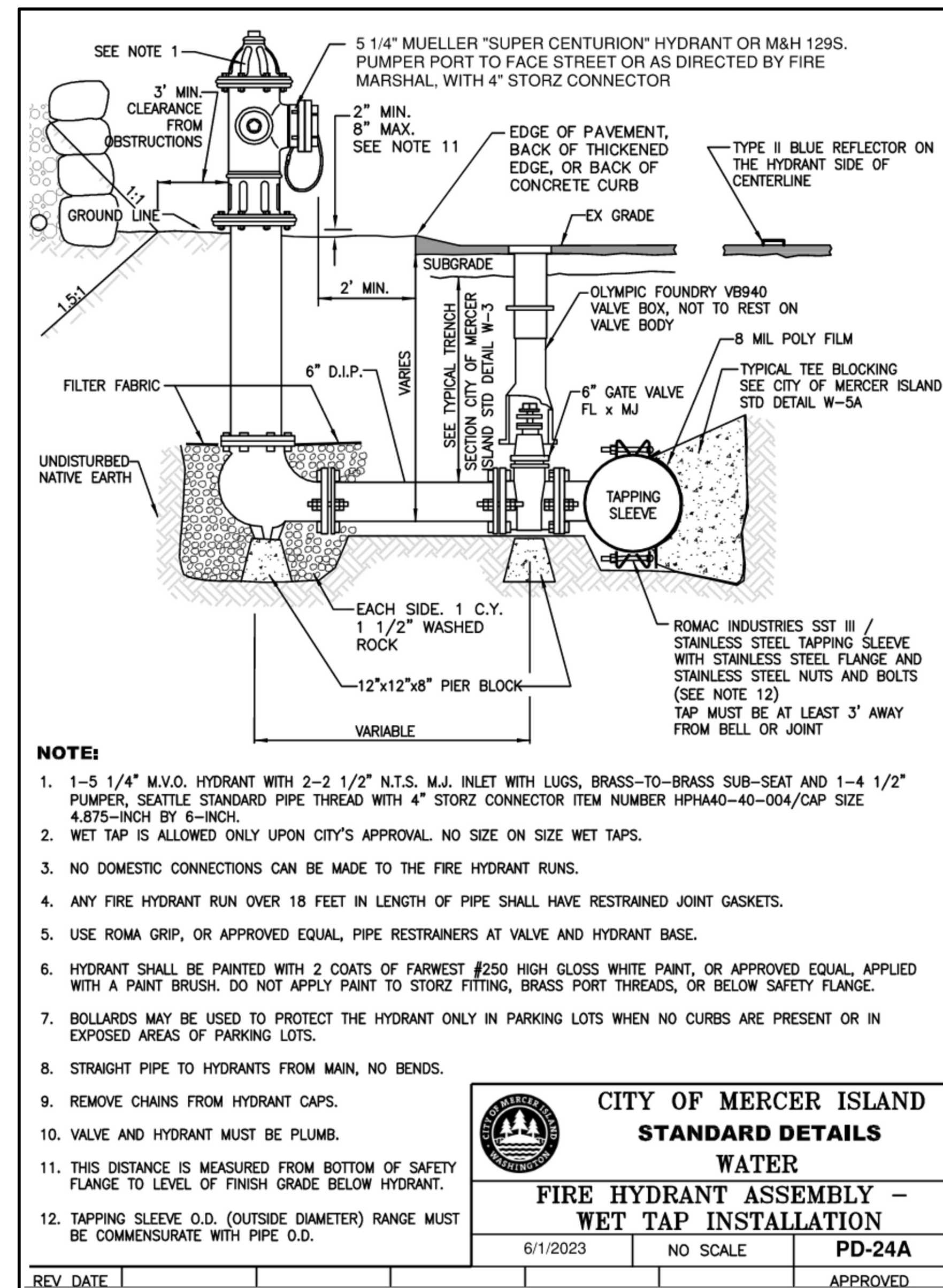
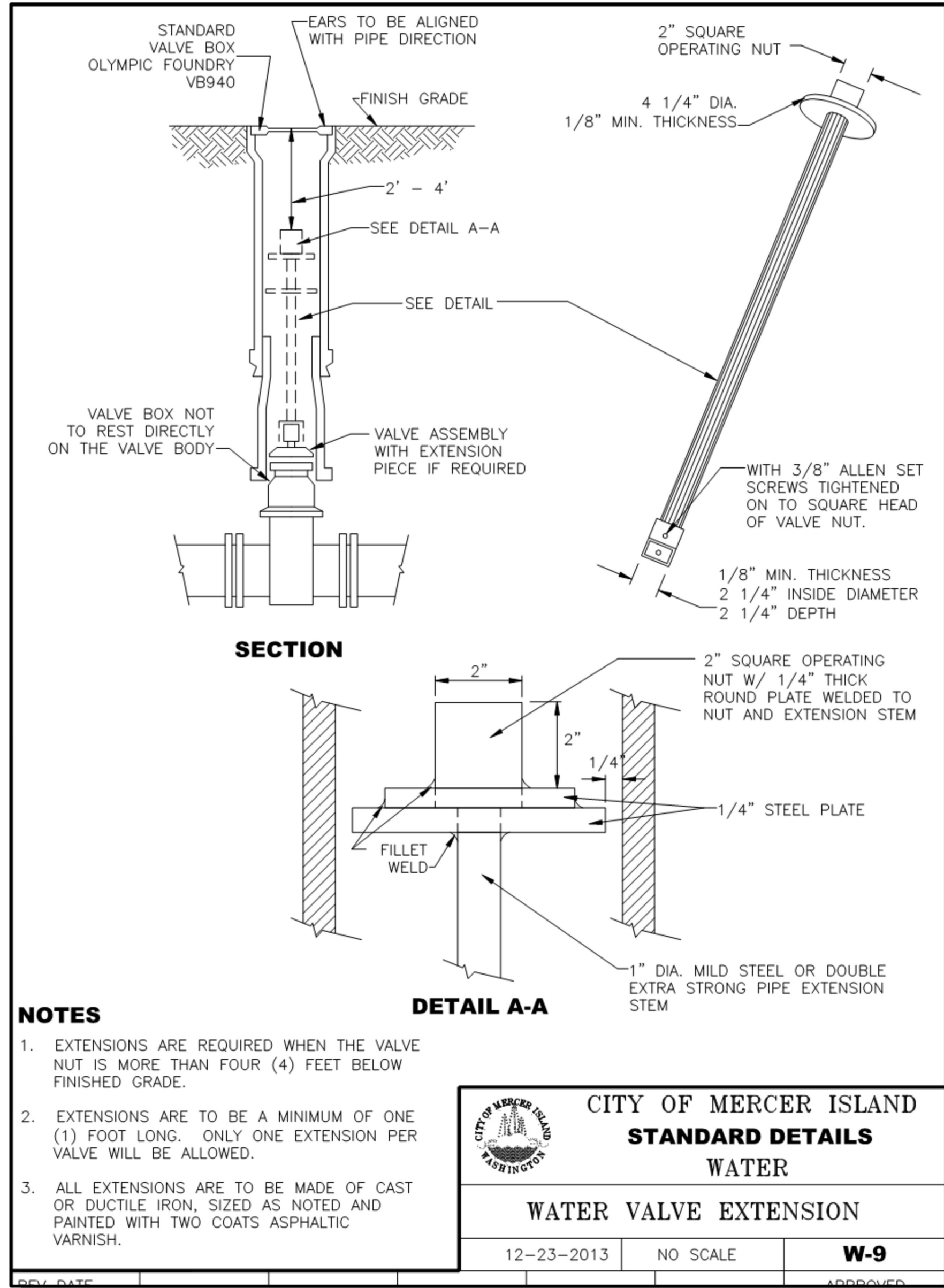
6/9/23

JOB NUMBER:
22-229

SHEET NAME:
DT-02

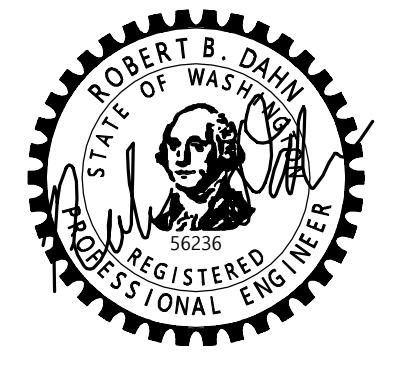
SHT **61** OF **68**

SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023

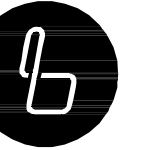


NO	DATE	BY	REVISIONS

STANDARD DETAILS
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
DT-03
SHT 62 OF 68



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

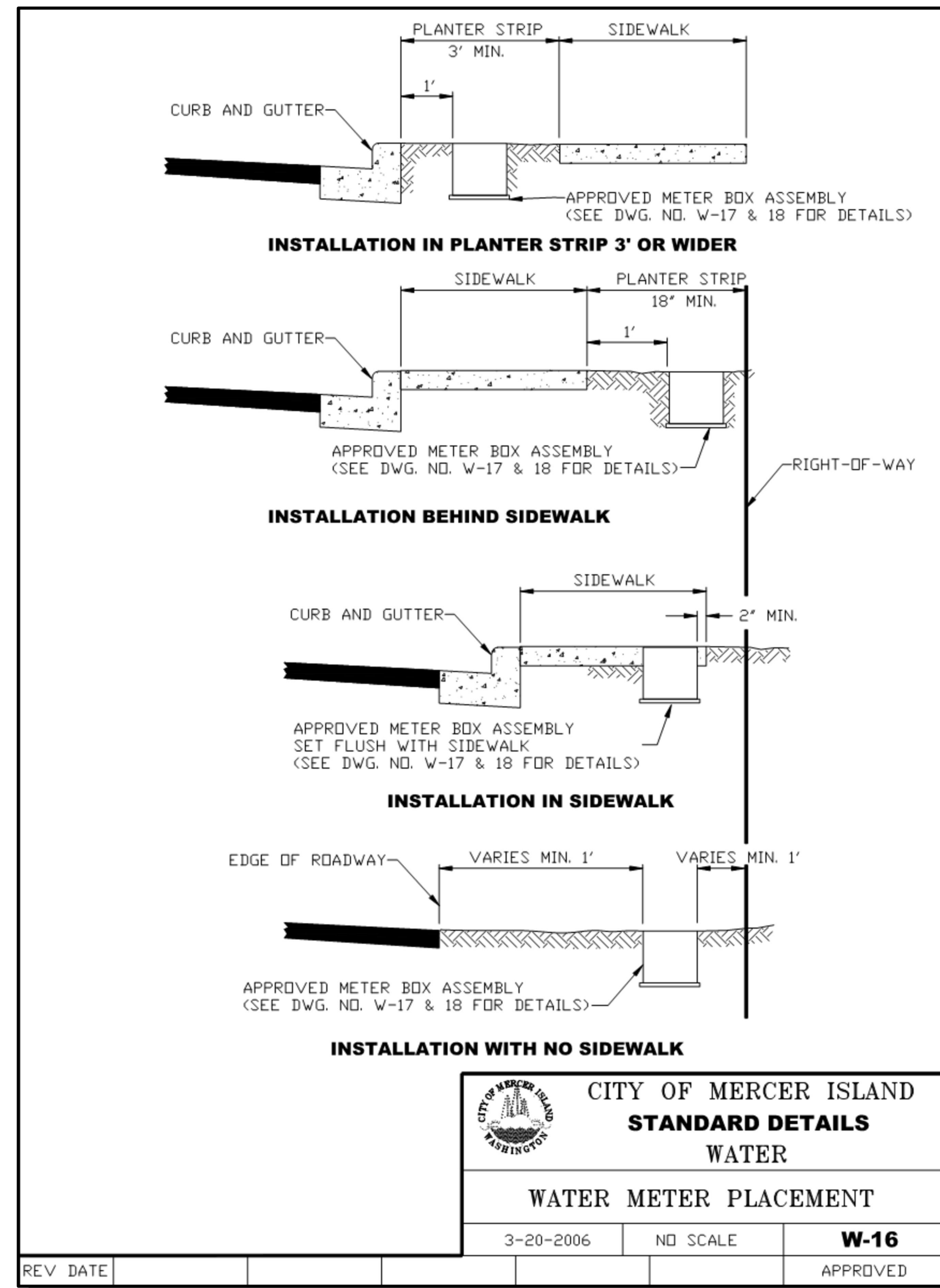
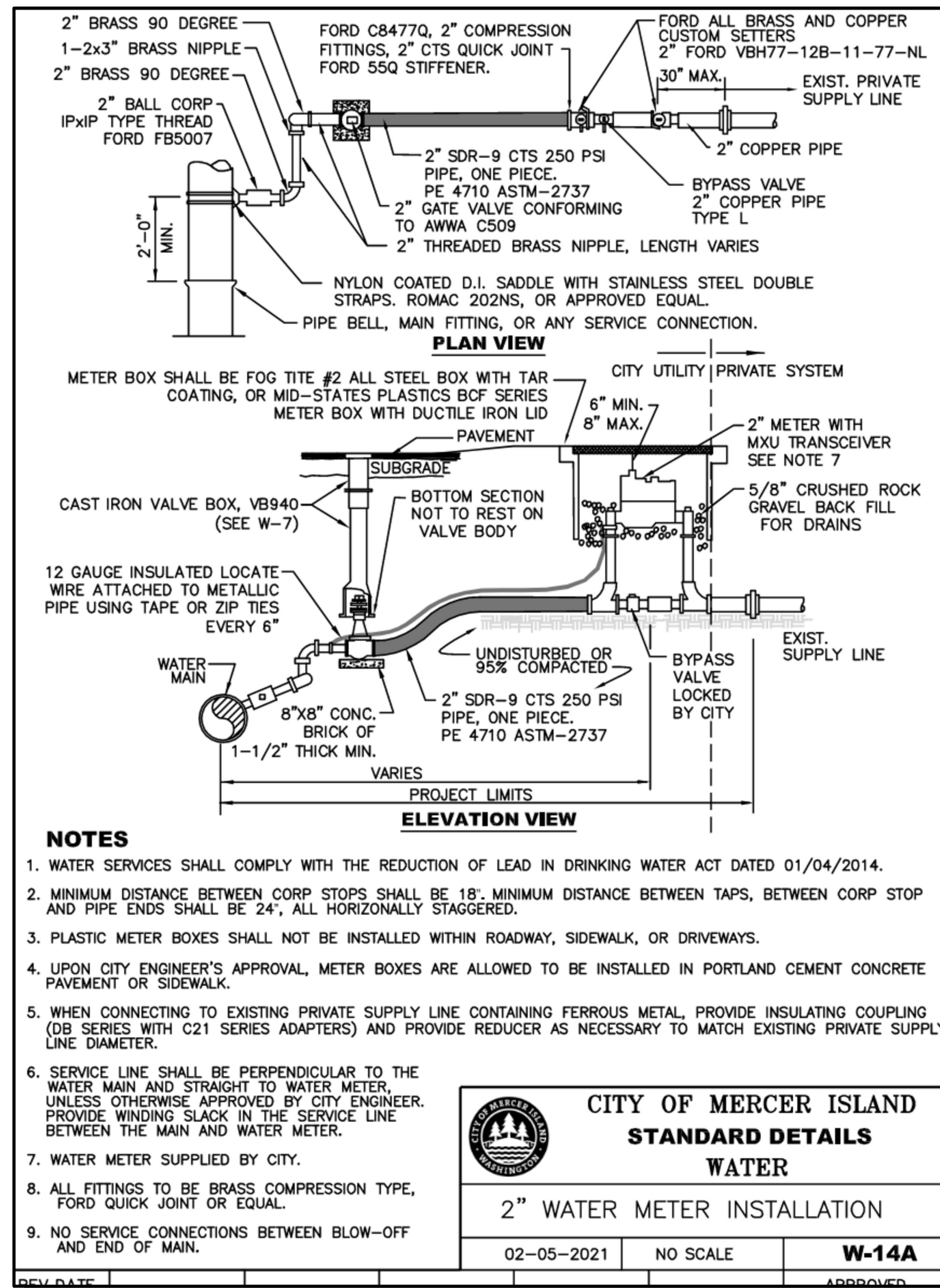
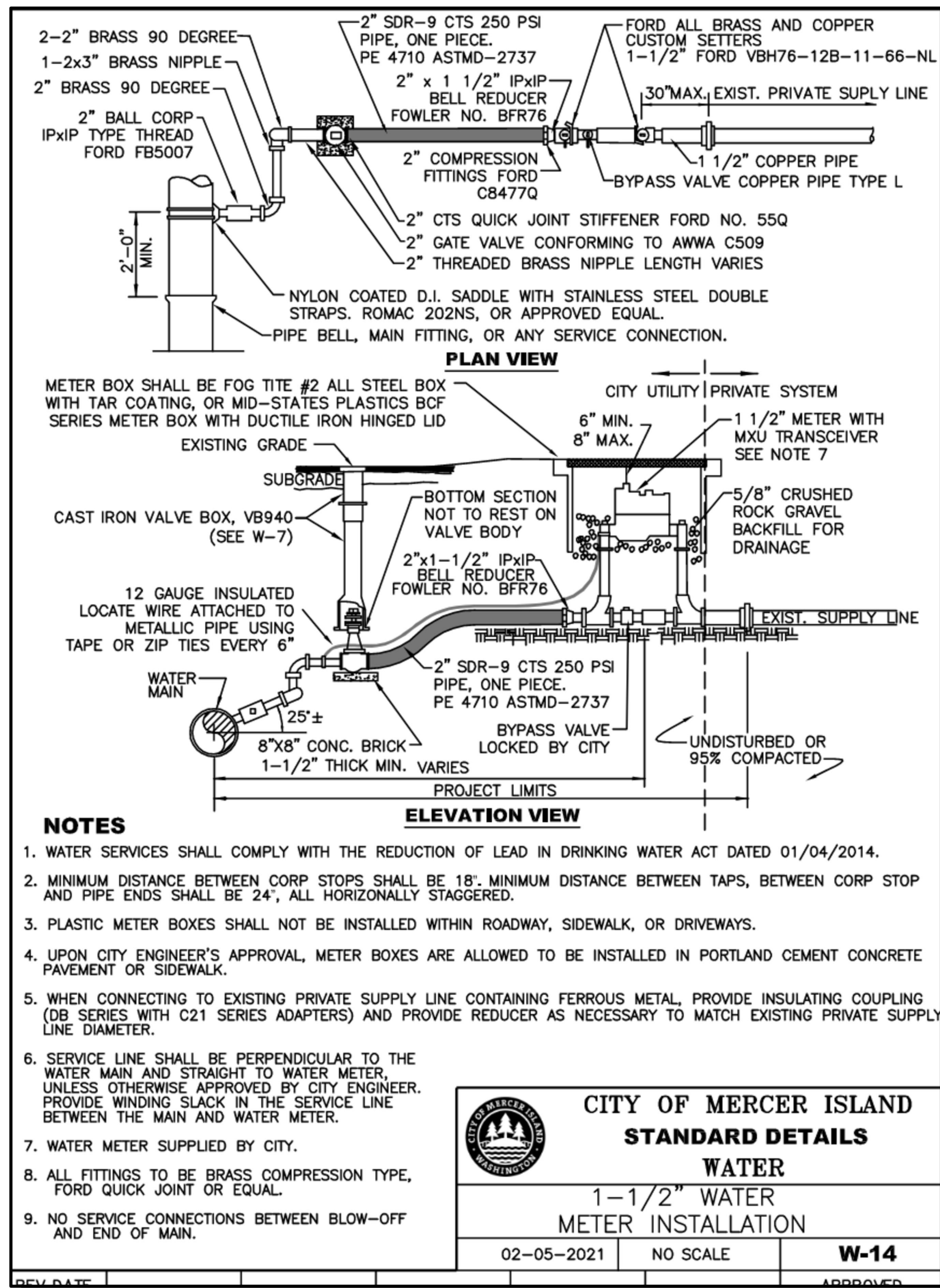
PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

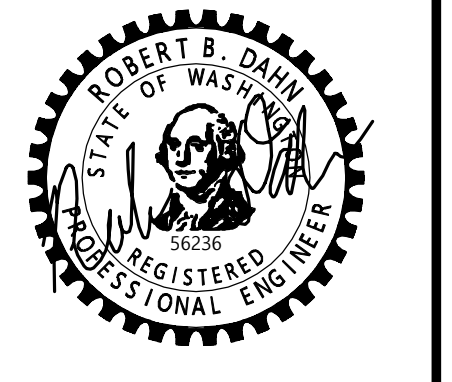
DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

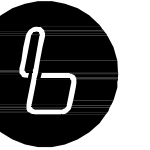
NO	DATE	BY	REVISIONS



STANDARD DETAILS
2023 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
DT-04



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25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

REVISIONS

NO DATE BY

STANDARD DETAILS
2023 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

1" STEEL METER BOX

2" STEEL METER BOX

NOTES

- 1" METER BOX SHALL BE FOG TITE J20S STEEL BOX WITH TAR COATING. LID SHALL HAVE A 3/4" ROUND HOLE AS SHOWN AND A 2" ROUND HOLE FOR AMI ANTENNA
- 2" METER BOX SHALL BE FOG TITE #2J20S ALL STEEL BOX WITH TAR COATING. LID SHALL BE HINGED WITH 3/4" ROUND HOLE AND A 2" ROUND HOLE FOR AMI ANTENNA

CITY OF MERCER ISLAND STANDARD DETAILS WATER 1" AND 2" STEEL WATER METER BOX			
6/1/2023	NO SCALE	PD-17	
REV	DATE	APPROVED	

MSBC **MSBCF**

LONG SIDE VIEW

SHORT SIDE VIEW

TOP VIEW

WATER SERVICE SIZE	PART NO.	A	B	C	D	E
1"	MSBCF1324-12	13.75"	23.1875"	12"	12.125"	24.5"
2"	MSBC1730-18	17.625"	30.5"	18"	22.875"	35"

NOTES:

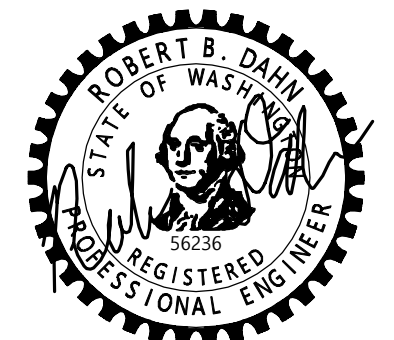
- METER BOX SHALL BE MID-STATES PLASTICS AS SHOWN, WITH DUCTILE IRON LID. 2" HOLE FOR AMI ANTENNA AND WITH A FLIP OR HINGED INSPECTION LID TO INCLUDE A 3/4" PICK HOLE
- PLASTIC WATER METER BOXES SHALL NOT BE INSTALLED WITHIN A DRIVING OR PARKING AREA.

CITY OF MERCER ISLAND STANDARD DETAILS WATER 1" & 2" PLASTIC WATER METER BOX			
6/1/2023	NO SCALE	PD-18A	
REV	DATE	APPROVED	

NOTE:

- 1-5 1/4" M.V.O. HYDRANT WITH 2-2 1/2" N.T.S. M.J. INLET WITH LUGS, BRASS-TO-BRASS SUB-SEAT AND 1-4 1/2" PUMPER, SEATTLE STANDARD PIPE THREAD WITH 4" STORZ CONNECTOR HARRINGTON MODEL NO. HPHA40-40-004/CAP, SIZE 4.875-INCH BY 6-INCH.
- NO DOMESTIC CONNECTIONS CAN BE MADE TO THE FIRE HYDRANT RUNS.
- ANY FIRE HYDRANT RUN OVER 18 FEET IN LENGTH OF PIPE SHALL HAVE RESTRAINED JOINT GASKETS.
- USE ROMA GRIP, OR APPROVED EQUAL, PIPE RESTRAINERS AT VALVE AND HYDRANT BASE.
- HYDRANT SHALL BE PAINTED WITH 2 COATS OF FARWEST #250 HIGH GLOSS WHITE PAINT, OR APPROVED EQUAL, APPLIED WITH A PAINT BRUSH. DO NOT APPLY PAINT TO STORZ FITTING, BRASS PORT THREADS, OR BELOW SAFETY FLANGE.
- BOLLARDS MAY BE USED TO PROTECT THE HYDRANT WHEN NO CURBS ARE PRESENT OR IN EXPOSED AREAS OF PARKING LOTS.
- STRAIGHT PIPE TO HYDRANTS FROM MAIN, NO BENDS.
- REMOVE CHAINS FROM HYDRANT CAPS.
- VALVE AND HYDRANT MUST BE PLUMB.
- THIS DISTANCE IS MEASURED FROM BOTTOM OF SAFETY FLANGE TO LEVEL OF FINISH GRADE BELOW HYDRANT.

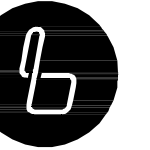
CITY OF MERCER ISLAND STANDARD DETAILS WATER FIRE HYDRANT CONNECTION		
6/1/2023	NO SCALE	PD-24
REV	DATE	APPROVED



6/9/23

JOB NUMBER:
22-229

SHEET NAME:
DT-05



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

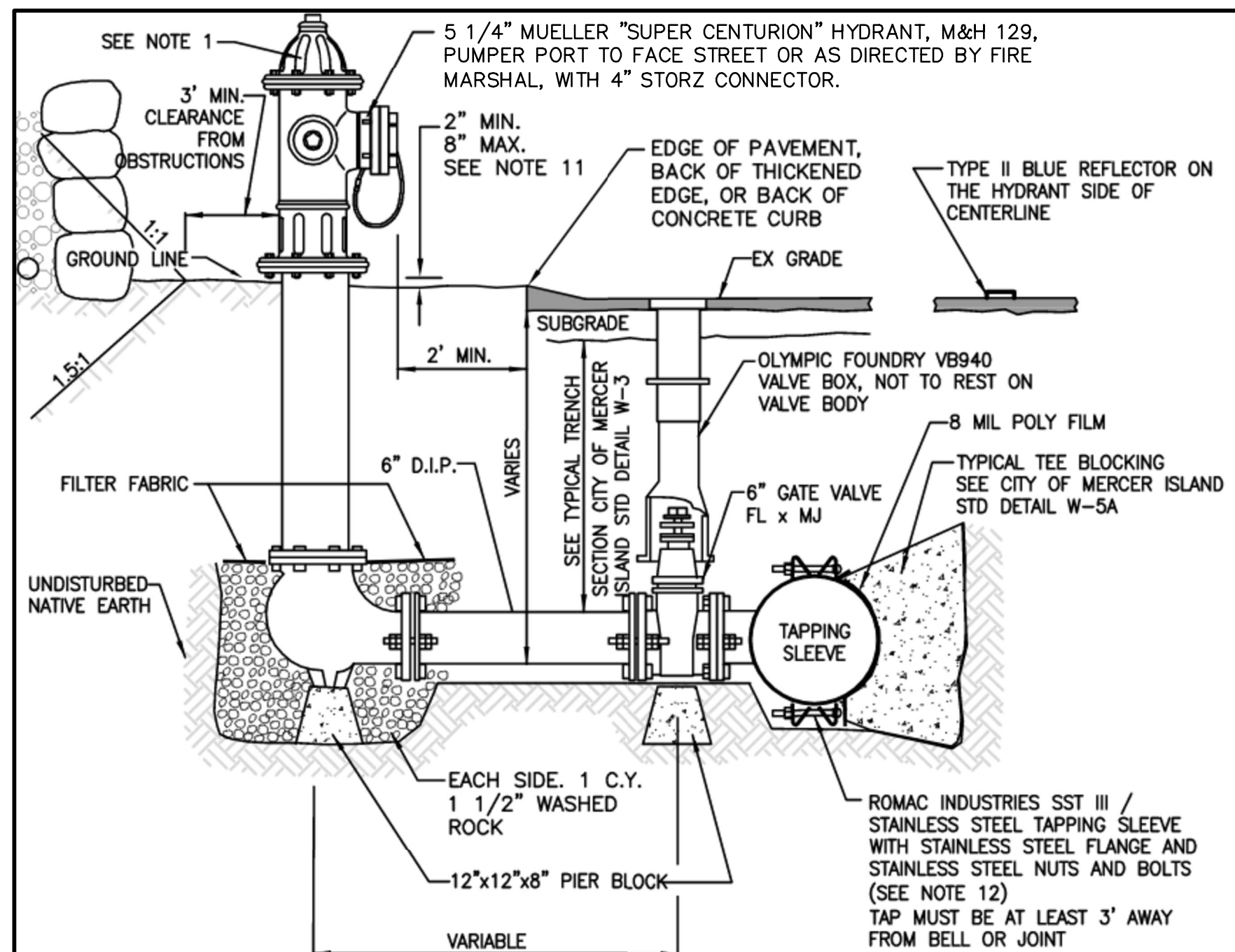
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023

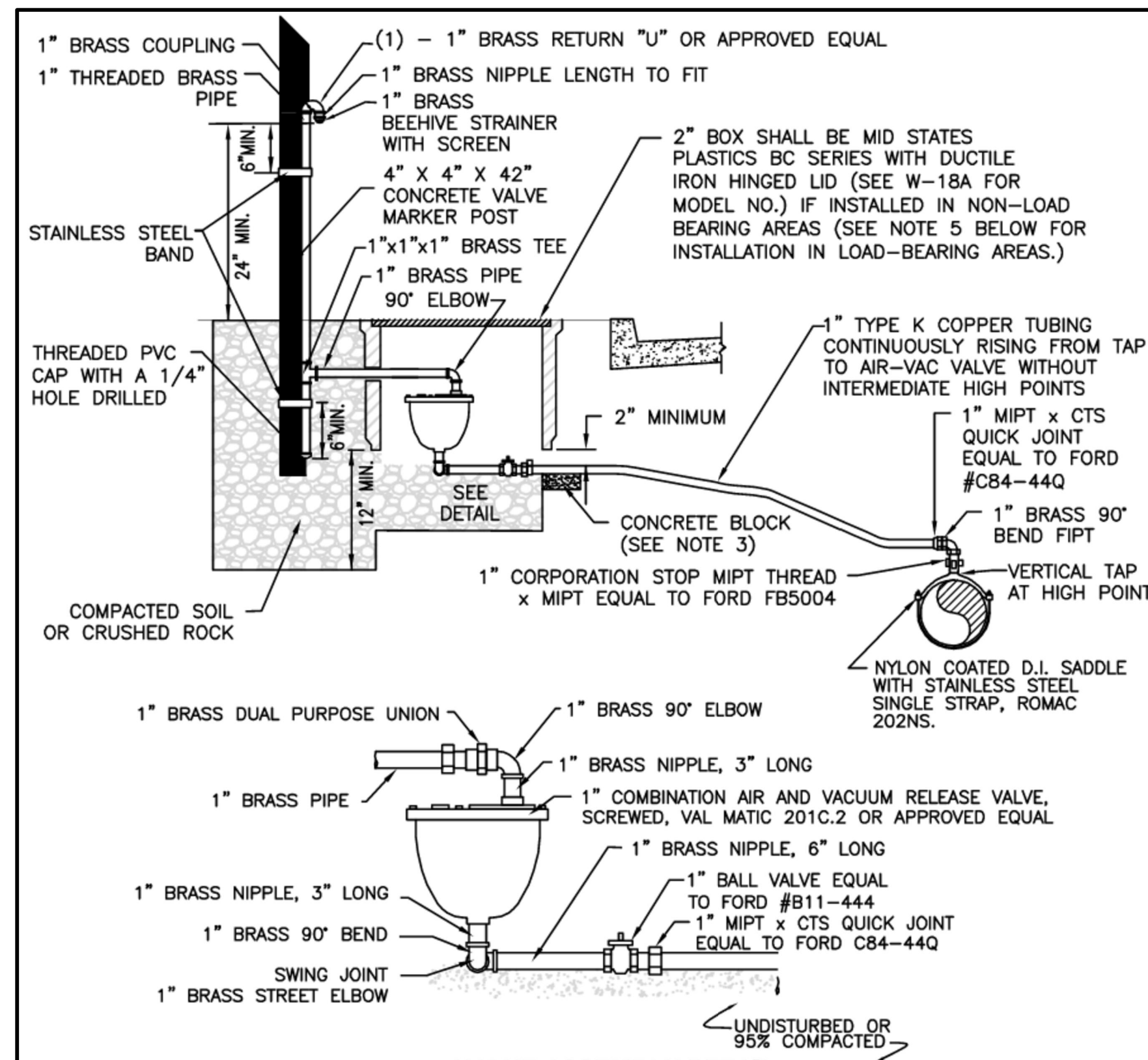


- NOTE:**
- 1-5 1/4" M.V.O. HYDRANT WITH 2-2 1/2" N.T.S. M.J. INLET WITH LUGS, BRASS-TO-BRASS SUB-SEAT AND 1-4 1/2" PUMPER, SEATTLE STANDARD PIPE THREAD WITH 4" STORZ CONNECTOR ITEM NUMBER HPH440-40-004/CAP SIZE 4.875-INCH BY 6-INCH.
 - WET TAP IS ALLOWED ONLY UPON CITY'S APPROVAL. NO SIZE ON SIZE WET TAPS.
 - NO DOMESTIC CONNECTIONS CAN BE MADE TO THE FIRE HYDRANT RUNS.
 - ANY FIRE HYDRANT RUN OVER 18 FEET IN LENGTH OF PIPE SHALL HAVE RESTRAINED JOINT GASKETS.
 - USE ROMA GRIP, OR APPROVED EQUAL, PIPE RESTRAINERS AT VALVE AND HYDRANT BASE.
 - HYDRANT SHALL BE PAINTED WITH 2 COATS OF FARWEST #250 HIGH GLOSS WHITE PAINT, OR APPROVED EQUAL, APPLIED WITH A PAINT BRUSH. DO NOT APPLY PAINT TO STORZ FITTING, BRASS PORT THREADS, OR BELOW SAFETY FLANGE.
 - BOLLARDS MAY BE USED TO PROTECT THE HYDRANT ONLY IN PARKING LOTS WHEN NO CURBS ARE PRESENT OR IN EXPOSED AREAS OF PARKING LOTS.
 - STRAIGHT PIPE TO HYDRANTS FROM MAIN, NO BENDS.
 - REMOVE CHAINS FROM HYDRANT CAPS.
 - VALVE AND HYDRANT MUST BE PLUMB.
 - THIS DISTANCE IS MEASURED FROM BOTTOM OF SAFETY FLANGE TO LEVEL OF FINISH GRADE BELOW HYDRANT.
 - TAPPING SLEEVE O.D. (OUTSIDE DIAMETER) RANGE MUST BE COMMENSURATE WITH PIPE O.D.

**CITY OF MERCER ISLAND
STANDARD DETAILS
WATER
FIRE HYDRANT ASSEMBLY -
WET TAP INSTALLATION**

02-23-2021 NO SCALE **W-24A**

REV DATE APPROVED

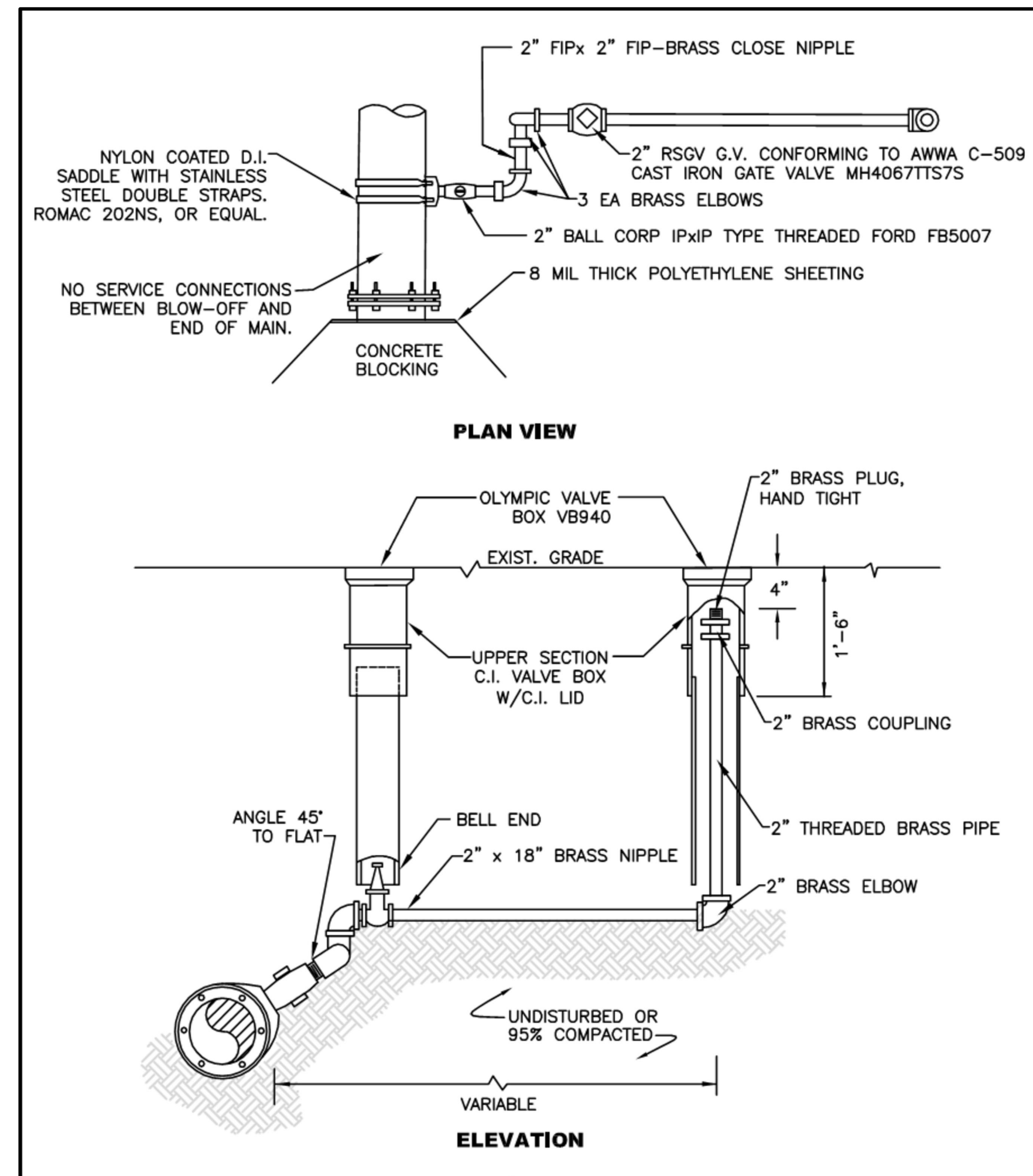


- NOTES**
1. ALL FITTINGS SHALL BE BRASS, ALL PIPE SHALL BE COPPER, UNLESS OTHERWISE SHOWN.
 2. TAP FOR COMBINATION AIR AND VACUUM VALVE ASSEMBLY MUST BE INSTALLED AT HIGHEST POINT OF WATER MAIN. EXACT LOCATION OF ASSEMBLY TO BE DETERMINED BY CITY.
 3. AT THE CITY INSPECTORS DISCRETION A CONCRETE BLOCK SHALL BE PLACED UNDER VALVE BOX TO KEEP BALL VALVE EXPOSED.
 4. VALVE MARKER POST SHALL BE PAINTED WITH 2 COATS OF FARWEST #250 HIGH GLOSS WHITE PAINT, OR APPROVED EQUAL, APPLIED WITH A PAINT BRUSH.
 5. IN LOAD BEARING LOCATIONS, OLYMPIC FOUNDRY SM-30, H-20 RATING, METAL METER BOX SHALL BE USED.

**CITY OF MERCER ISLAND
STANDARD DETAILS
WATER
1" AIR & VACUUM VALVE ASSEMBLY**

2-8-2021 NO SCALE **W-25**

REV DATE APPROVED



**CITY OF MERCER ISLAND
STANDARD DETAILS
WATER
2" BLOW-OFF ASSEMBLY**

7-01-2014 NO SCALE **W-26**

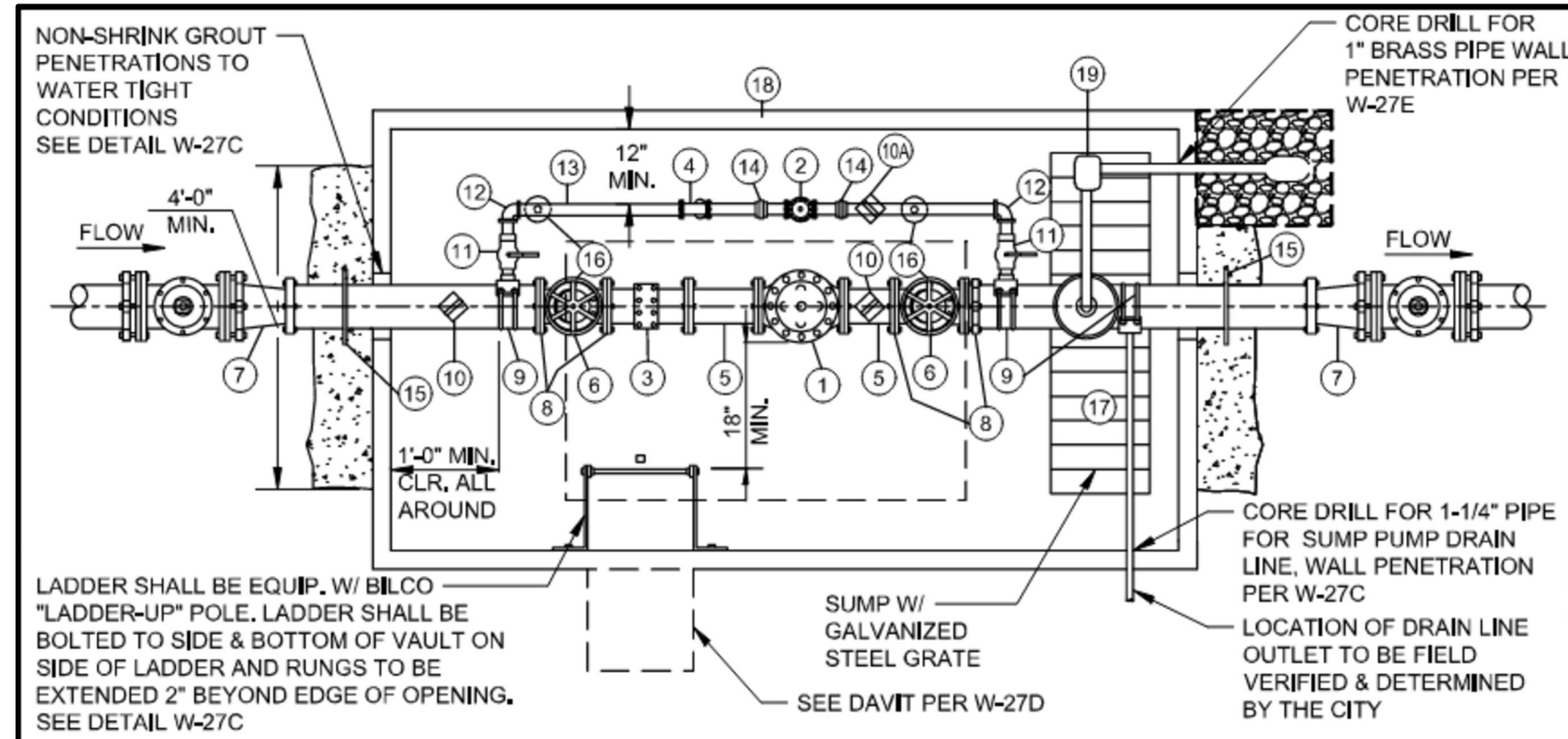
REV DATE APPROVED

NO	DATE	BY	REVISIONS

STANDARD DETAILS
2023 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

6/9/23
JOB NUMBER:
22-229
SHEET NAME:
DT-06
SHT **65** OF **68**

SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
6/9/2023



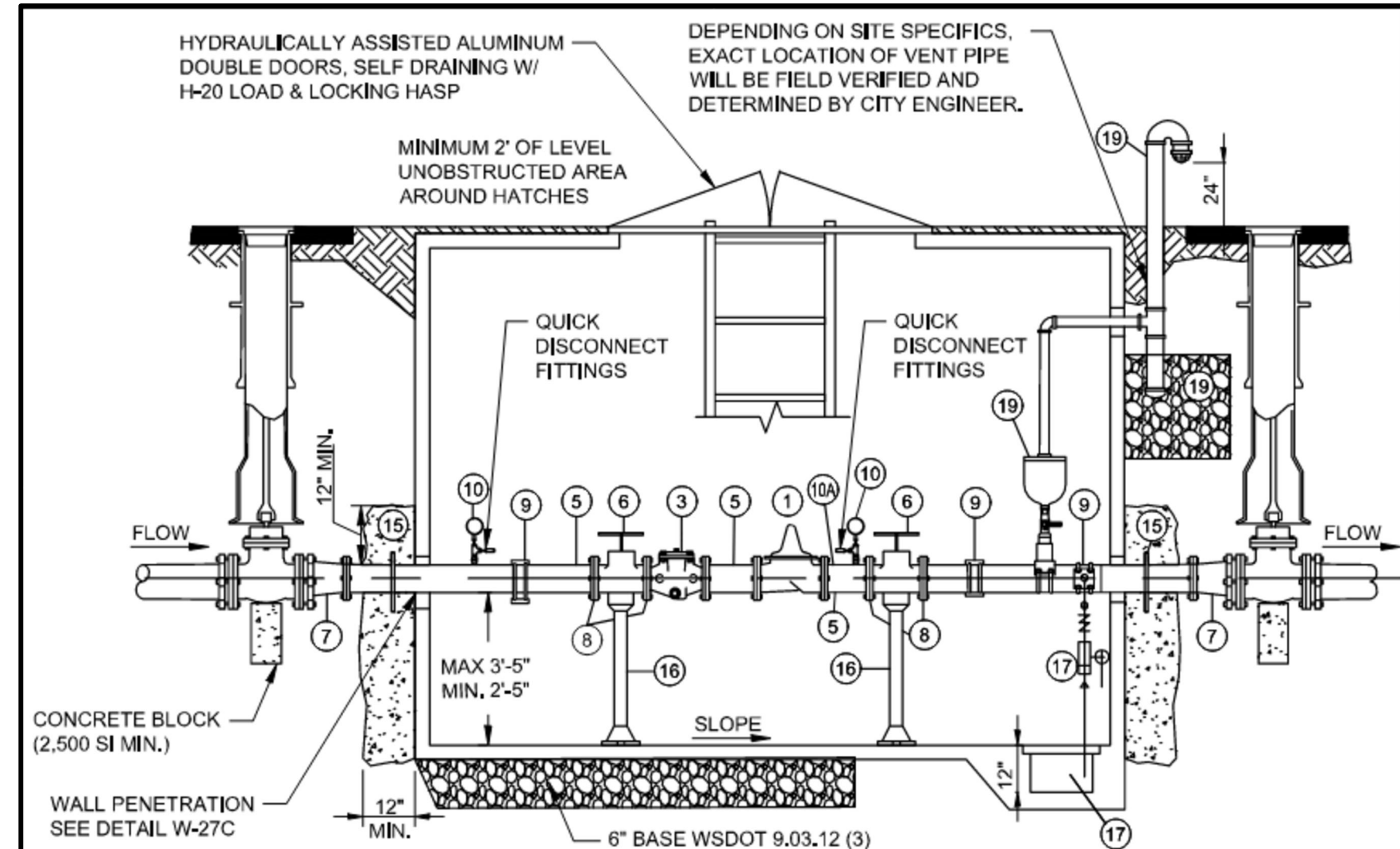
PRESSURE REDUCING VALVE (PRV) TOP VIEW

- MATERIALS LIST**
- ① PRESSURE REDUCING, EPOXY COATED CLA VAL-VALVE FL/FL, PILOT SYSTEM TO FACE TOWARD CENTER OF VAULT. CITY TO PROVIDE EXACT PRV MODEL & SPECS.
 - ② 2" PRESSURE REDUCING VALVE LP, x LP PILOT SYSTEM TO FACE TOWARDS CENTER OF VAULT. CITY TO PROVIDE EXACT PRV SPECIFICATIONS
 - ③ CLA-VAL H STYLE STRAINER X43H
 - ④ 2" WYE STRAINER, 3" AND LARGER USE CLA VAL STYLE H
 - ⑤ DI SPOOL (FL)
 - ⑥ GATE VALVE (FL) W/HANDWHEEL, KENNEDY OF MUELLER
 - ⑦ DI CONCENTRIC REDUCER (FL) INSTALLED TOP FLAT
 - ⑧ UNI-FLANGE ADAPTOR
 - ⑨ 2" SERVICE SADDLE W/DOUBLE STAINLESS STEEL STRAPS, ROMAC 202-NS
 - ⑩ 1/2" BRASS CORP. STOP W/PRESSURE GAUGE (0-100 OR 160 PSI), ROMAC STYLE 360 2" SADDLE W/DOUBLE STAINLESS STEEL STRAPS WITH 1/2" OUTLET
 - ⑪ 2" BALL LOCKING VALVE (IP)
 - ⑫ 2" 90° BEND (IP) SCH. 40 STAINLESS STEEL
 - ⑬ 2" PIPE: SCH. 40 STAINLESS STEEL
 - ⑭ 2" UNION: SCH. 40 STAINLESS STEEL
 - ⑮ DI PIPE/WALL FLANGE, PER W-27C
 - ⑯ ADJUSTABLE PIPE SUPPORT FOR BOTH MAINLINE & BYPASS LINE
 - ⑰ INSTALL SUMP PUMP (GCS AUTOMATIC SUMP DRAIN EJECTOR ASSEMBLY MODEL #998633, OR APPROVED EQUAL), TAP FOR SUMP DRAIN ASSEMBLY SHALL BE ON THE HALF SECTION, HORIZONTAL DIRECTION TO THE WATER LINE.
 - ⑱ UTILITY VAULT, OLD CASTLE 687-LA OR APPROVED EQUAL
 - ⑲ 1-1/4" AIR VACUUM RELEASE VALVE ASSEMBLY PER W-27E

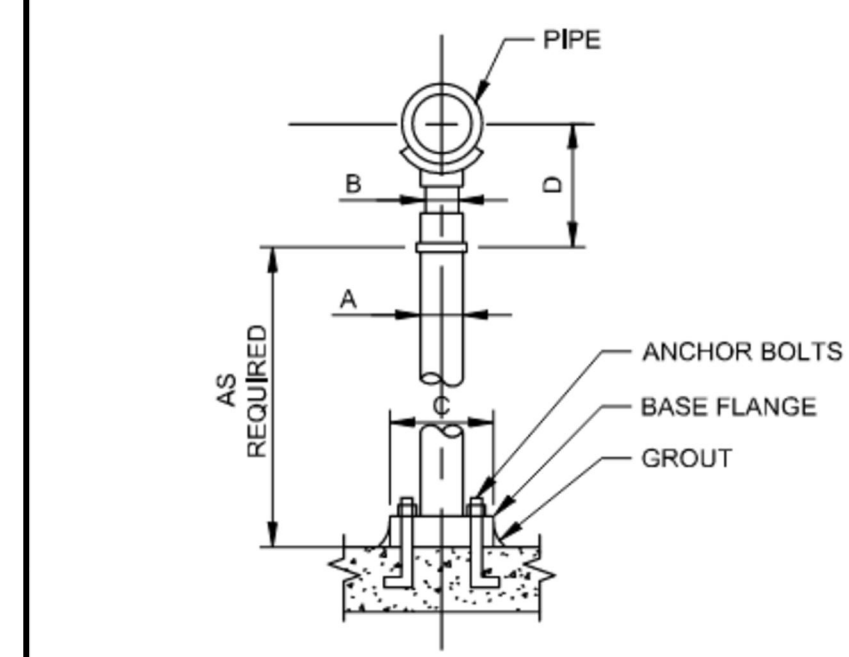
NOTES:

- THE DESIGN ENGINEER MUST SUBMIT A SPECIFIC DESIGN BASED ON THE TYPICAL LAYOUT FOR EACH INSTALLATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION AND SUBMITTALS FOR ALL MATERIALS.
- THE REQUIRED PRESSURE REDUCING STATION CAPACITY AND SIZE SHALL BE DETERMINED BY CITY ENGINEER.
- THE DESIGN ENGINEER TO NOTE FLOW DIRECTION AND PRESSURE SETTING ON THE PLANS.
- INSIDE DIMENSIONS OF VAULT VARY DEPENDING ON PIPE SIZE. THE DESIGN ENGINEER MUST SPECIFY VAULT SIZE CONSISTENT WITH THE MINIMUM DIMENSIONS SHOWN IN THE DETAILS.
- THE BYPASS PRV, PIPING, AND FITTINGS MAY BE LARGER THAN 2" AS APPROVED BY THE CITY ENGINEER.
- LADDER SHALL BE 1-1/2" WIDE. LENGTH TO FIT SIZE OF VAULT. SEE DETAILS W-27C.

CITY OF MERCER ISLAND STANDARD DETAILS WATER
PRESSURE REDUCING VALVE (PRV) TOP VIEW
07-01-2021 NO SCALE **W-27A**



PRESSURE REDUCING VALVE (PRV) SIDE VIEW



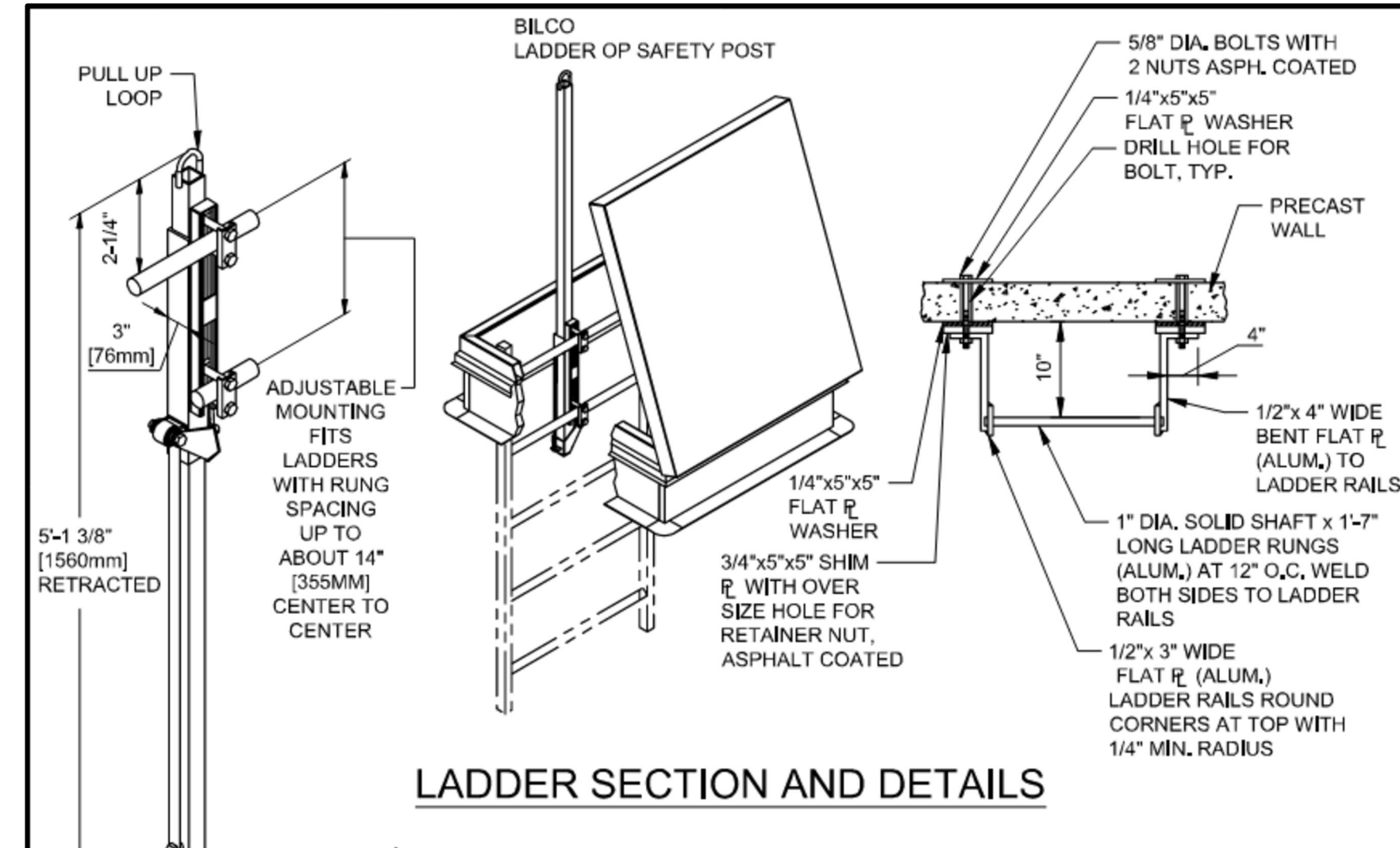
ADJUSTABLE PIPE SUPPORT SCHEDULE (IN INCHES)

PIPE SIZE	A	B	C	D	
				MIN.	MAX.
2-1/2	2-1/2	2-1/2	9	8	13
3	2-1/2	1-1/2	9	8-1/4	13-1/4
3-1/2	2-1/2	1-1/2	9	8-1/2	13-1/2
4	3	2-1/2	9	9-1/4	14
5	3	2-1/2	9	10	14-3/4
6	3	2-1/2	9	10-1/2	15-1/4
8	3	2-1/2	9	11-3/4	16-1/2
10	3	2-1/2	9	13-1/2	18-1/4
12	3	2-1/2	9	15	19-3/4
16	6	3-1/2	13-1/2	19-1/2	24

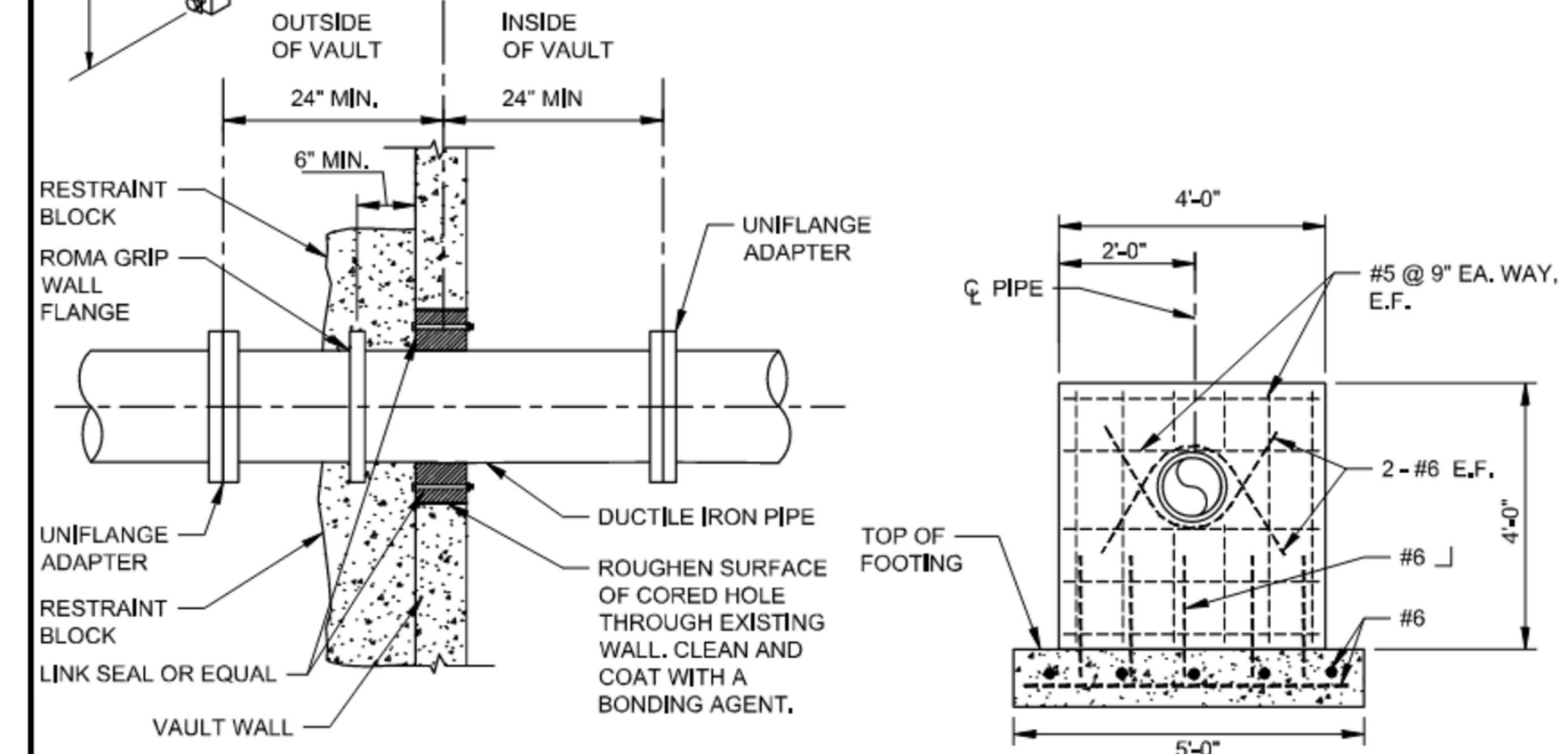
ADJUSTABLE PIPE SUPPORT

CITY OF MERCER ISLAND STANDARD DETAILS WATER
PRESSURE REDUCING VALVE (PRV) SIDE VIEW
07-01-2021 NO SCALE **W-27B**

NOTES:
1. MATERIAL LIST AND DESCRIPTIONS PROVIDED ON W-27A



LADDER SECTION AND DETAILS



WALL PENETRATION DETAIL (FOR ALL PIPE PENETRATIONS)

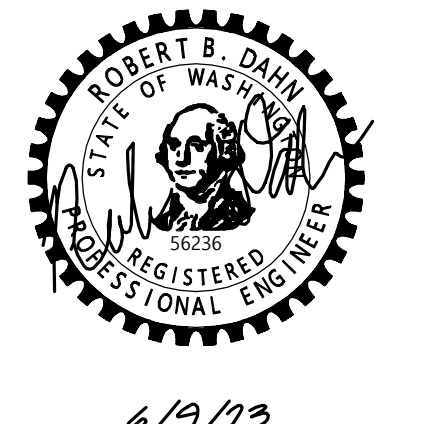
WALL FLANGE DETAIL

CITY OF MERCER ISLAND STANDARD DETAILS WATER
PRESSURE REDUCING VALVE (PRV) LADDER, PIPE PENETRATION, & WALL FLANGE
07-01-2021 NO SCALE **W-27C**

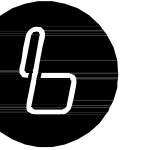
REVISIONS

NO	DATE	BY

STANDARD DETAILS
2023 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



6/9/23
JOB NUMBER:
22-229
SHEET NAME:
DT-07



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

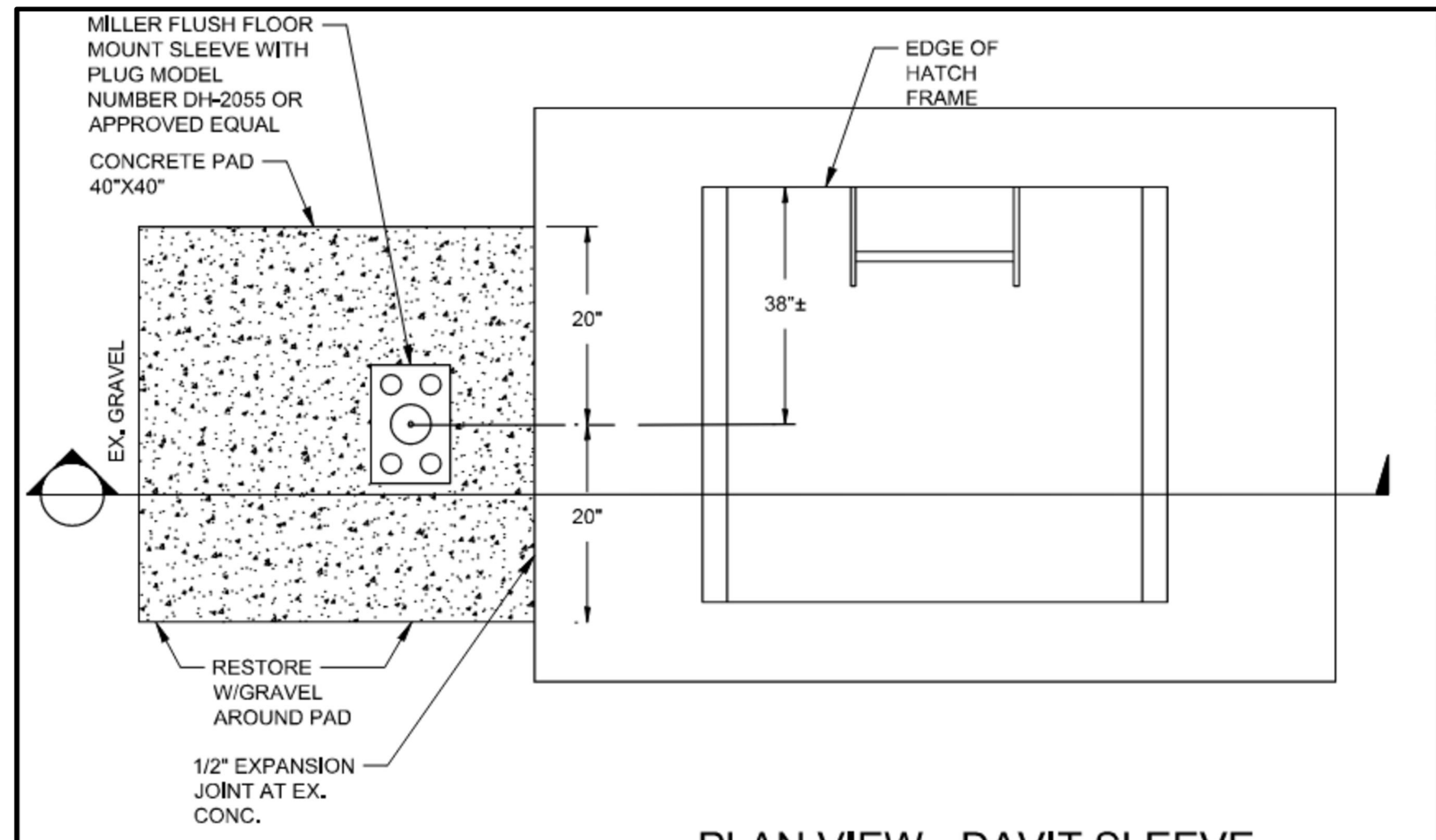
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

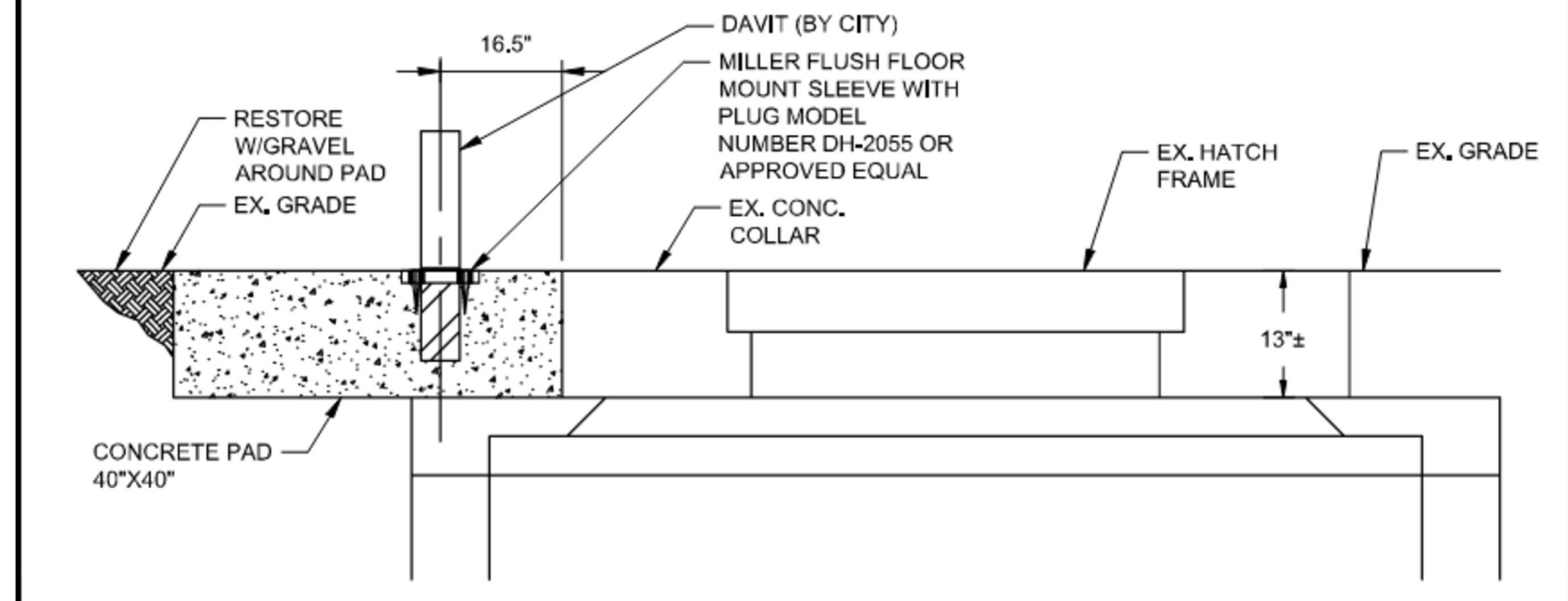
PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
6/9/2023



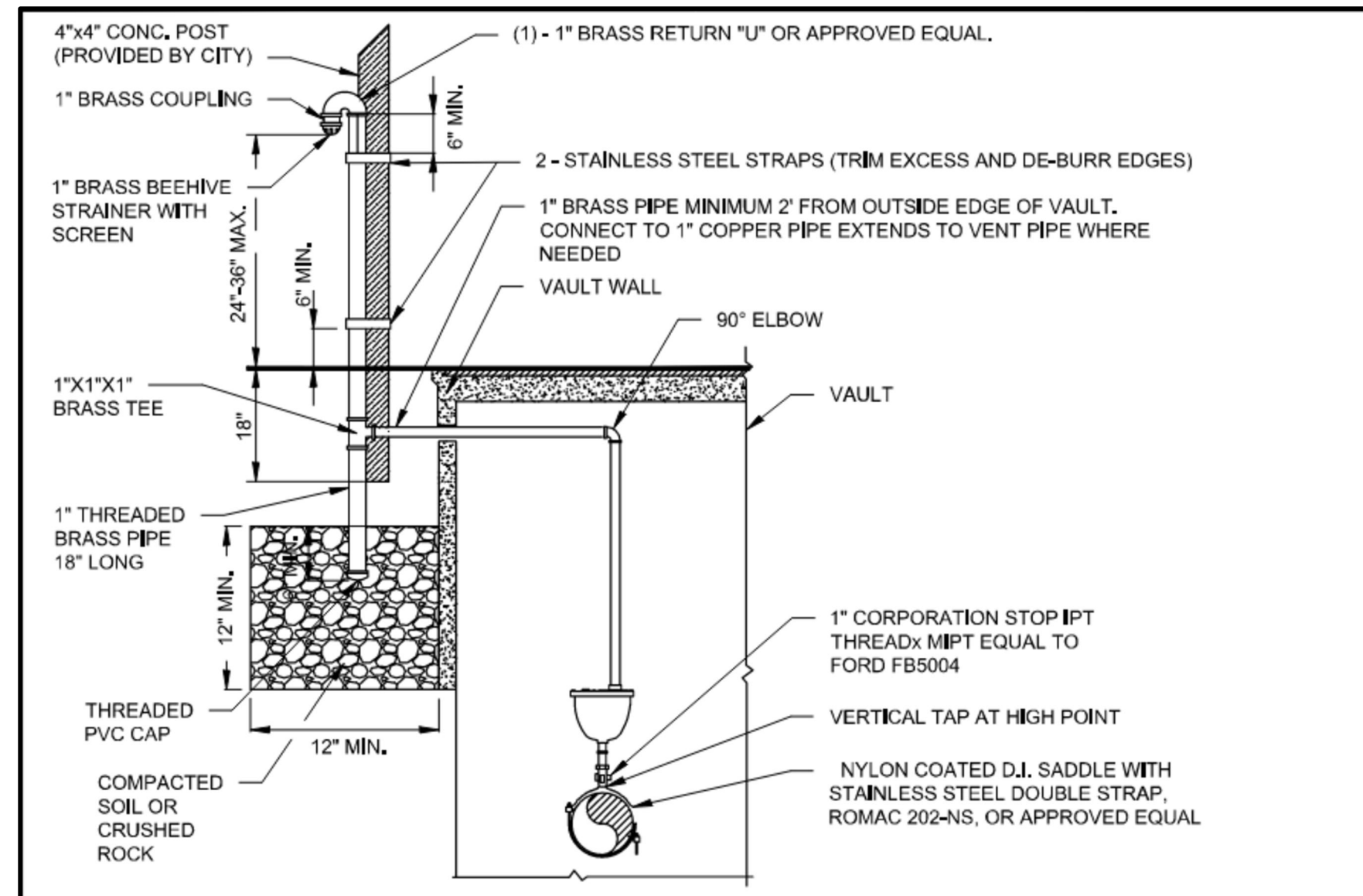
PLAN VIEW - DAVIT SLEEVE
NOT TO SCALE



SECTION VIEW - DAVIT SLEEVE
NOT TO SCALE

NOTE:
DAVIT CONCRETE PAD SHALL BE INSTALLED ON SIDE OF PRV VAULT THAT IS CLEAR OF THE HATCH IN OPEN POSITION. EXACT LOCATION OF THE CONCRETE PAD SHALL BE FIELD VERIFIED AND APPROVED BY CITY ENGINEER.

CITY OF MERCER ISLAND STANDARD DETAILS WATER PRESSURE REDUCING VALVE (PRV) DAVIT		
07-01-2021	NO SCALE	W-27D
REV DATE		APPROVED

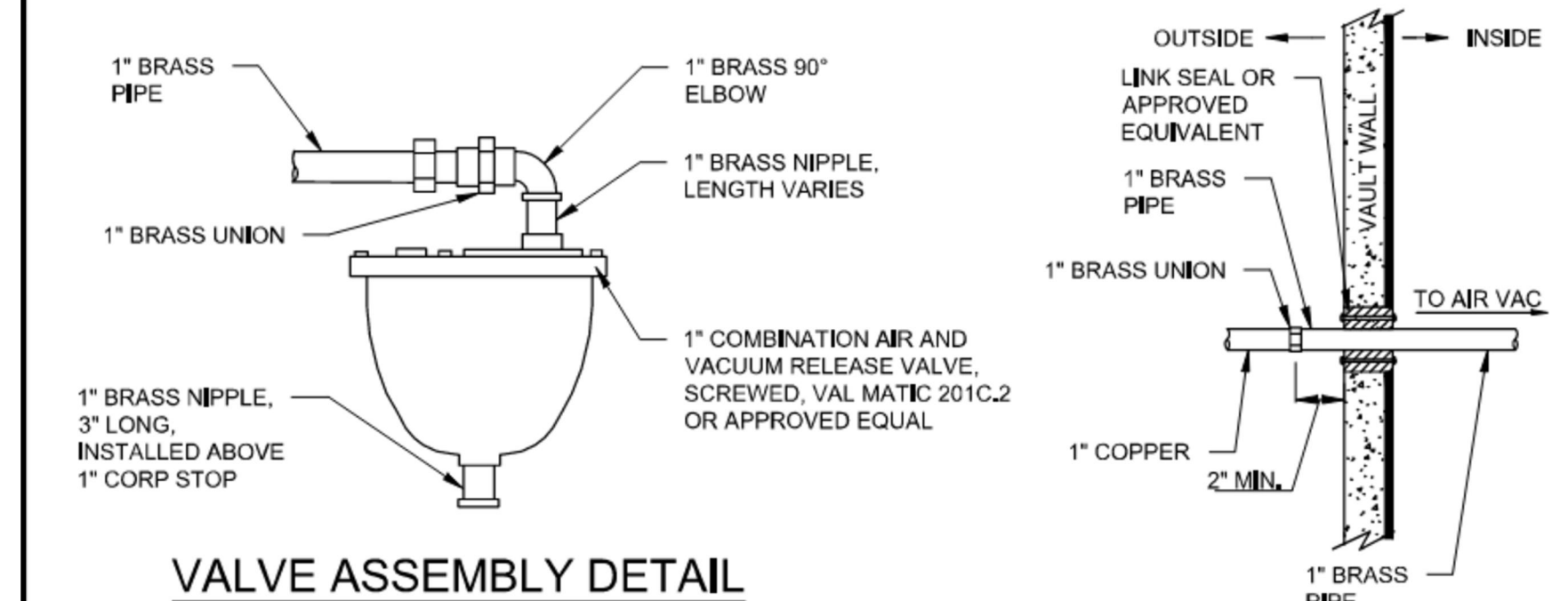


VALVE ASSEMBLY DETAIL

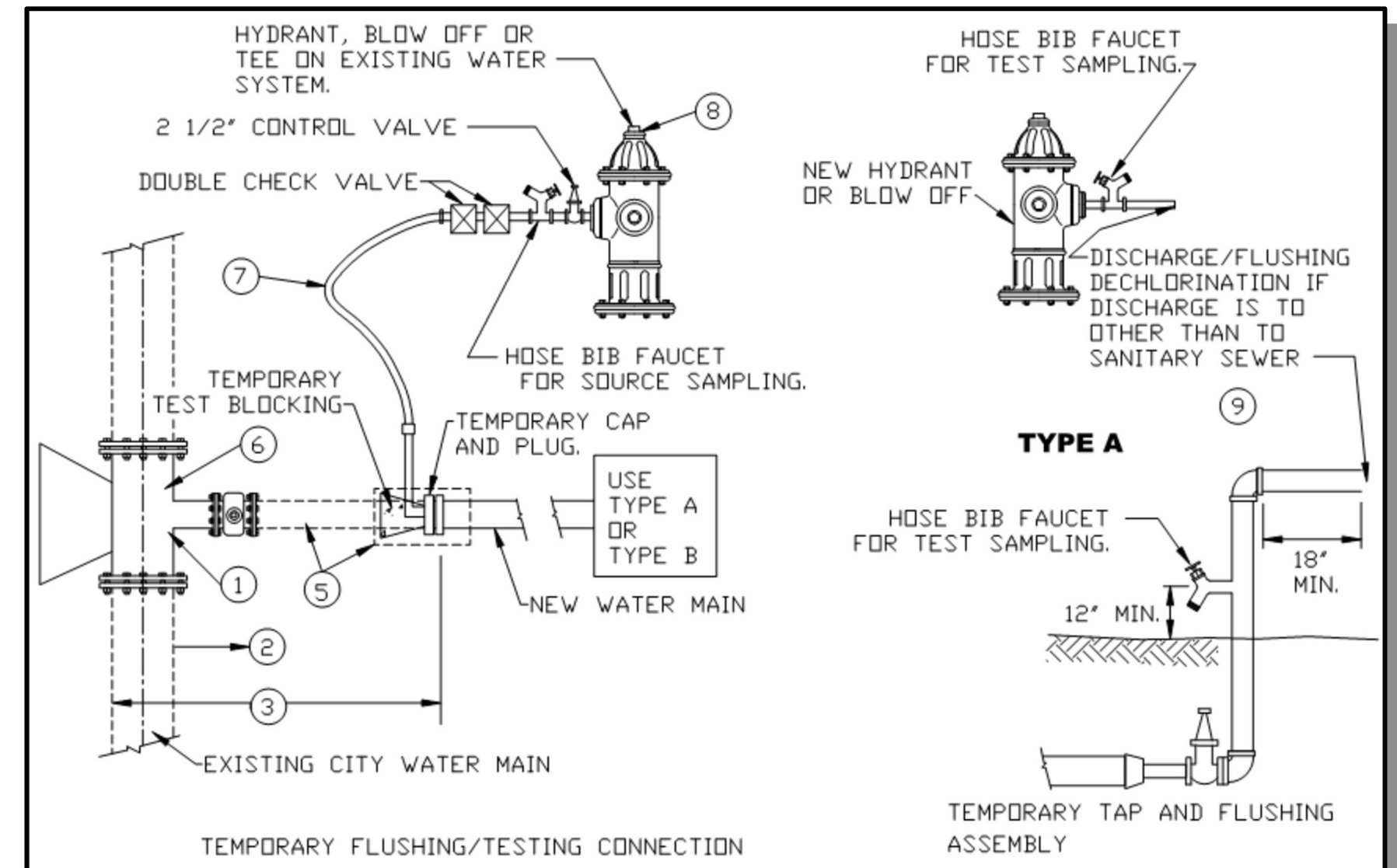
NOTES:

- ALL FITTINGS SHALL BE BRASS. ALL PIPE SHALL BE BRASS OR COPPER, UNLESS OTHERWISE SHOWN.
- TAP FOR COMBINATION AIR AND VACUUM VALVE ASSEMBLY MUST BE INSTALLED AT HIGHEST POINT OF WATER MAIN. EXACT LOCATION OF ASSEMBLY TO BE DETERMINED BY CITY.
- COPPER LINE MUST MAINTAIN LEVEL GRADE - NO DIPS OR BELLIES.

PIPE PENETRATION AT VAULT WALL DETAIL



CITY OF MERCER ISLAND STANDARD DETAILS WATER PRESSURE REDUCING VALVE (PRV) 1\"/>		
07-01-2021	NO SCALE	W-27E
REV DATE		APPROVED



- PLAN**
- CONTRACTOR TO DETERMINE ALIGNMENT, SIZE AND GRADE OF EXISTING FACILITIES PRIOR TO SHUTDOWN.
 - ALL EXCAVATION, PIP, FITTINGS, MATERIALS, BACKFILL COMPACTION AND STREET RESTORATION ARE THE CONTRACTOR'S RESPONSIBILITY.
 - ALL MATERIALS TO BE ON SITE PRIOR TO SHUTDOWN OF EXISTING MAIN.
 - ALL PRESSURE TESTING, DISINFECTION, BACTERIA TESTING, TASTE TESTING AND NOTIFICATION OF RESIDENTS EFFECTED BY THE SHUTDOWN SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 7, 8 & 9 OF DIVISION 9, WATER ENGINEERING STANDARDS, PRIOR TO CONNECTION TO THE CITY SYSTEM OF THE NEW WATERMAIN.
 - LONG PATTERN MECHANICAL JOINT, SLEEVE, WITH PIPE CUT TO FIT GAP - FURNISH AND INSERTED AT TIME OF CONNECTION.
 - TEE OR TAPPING TEE AND MATERIALS NECESSARY TO MAKE THE FINAL CONNECTION TO THE CITY WATER SYSTEM SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
 - CLEAN POTABLE WATER HOSE, WATER METER AND DCVA PROVIDED BY CITY, A RENTAL FEE IS REQUIRED.
 - HYDRANT PERMIT REQUIRED.
 - CHECK WITH SEWER DEPARTMENT BEFORE DISCHARGING INTO THE SANITARY SEWER SYSTEM. ALL CHLORINATED WATER MUST BE DISCHARGED INTO THE SANITARY SEWER SYSTEM, UNLESS DECHLORINATED FIRST.
- TYPE B**
- CONTRACTOR TO DETERMINE ALIGNMENT, SIZE AND GRADE OF EXISTING FACILITIES PRIOR TO SHUTDOWN.
 - ALL EXCAVATION, PIP, FITTINGS, MATERIALS, BACKFILL COMPACTION AND STREET RESTORATION ARE THE CONTRACTOR'S RESPONSIBILITY.
 - ALL MATERIALS TO BE ON SITE PRIOR TO SHUTDOWN OF EXISTING MAIN.
 - ALL PRESSURE TESTING, DISINFECTION, BACTERIA TESTING, TASTE TESTING AND NOTIFICATION OF RESIDENTS EFFECTED BY THE SHUTDOWN SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 7, 8 & 9 OF DIVISION 9, WATER ENGINEERING STANDARDS, PRIOR TO CONNECTION TO THE CITY SYSTEM OF THE NEW WATERMAIN.
 - LONG PATTERN MECHANICAL JOINT, SLEEVE, WITH PIPE CUT TO FIT GAP - FURNISH AND INSERTED AT TIME OF CONNECTION.
 - TEE OR TAPPING TEE AND MATERIALS NECESSARY TO MAKE THE FINAL CONNECTION TO THE CITY WATER SYSTEM SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
 - CLEAN POTABLE WATER HOSE, WATER METER AND DCVA PROVIDED BY CITY, A RENTAL FEE IS REQUIRED.
 - HYDRANT PERMIT REQUIRED.
 - CHECK WITH SEWER DEPARTMENT BEFORE DISCHARGING INTO THE SANITARY SEWER SYSTEM. ALL CHLORINATED WATER MUST BE DISCHARGED INTO THE SANITARY SEWER SYSTEM, UNLESS DECHLORINATED FIRST.

NOTES

- ALL FITTINGS TO BE DUCTILE IRON.
- ALL EXCAVATION SHALL PROVIDE A MINIMUM OF 1' CLEAR AROUND PIPE AND FITTINGS.

CITY OF MERCER ISLAND STANDARD DETAILS WATER WATER MAIN FLUSHING		
8-12-2009	NO SCALE	W-32
REV DATE		APPROVED

REVISIONS

NO DATE BY

STANDARD DETAILS
2023 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



6/9/23

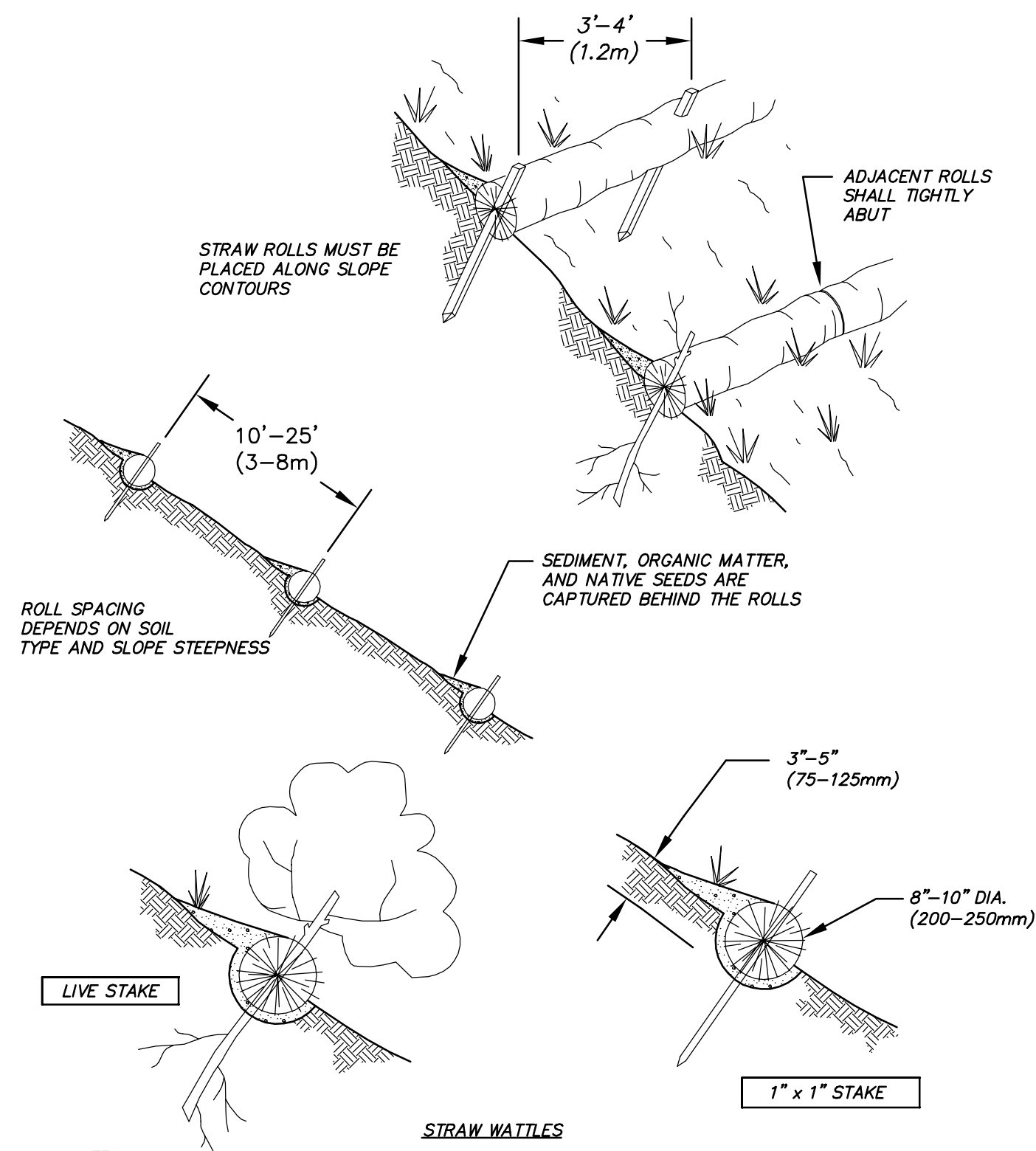
JOB NUMBER:

22-229

SHEET NAME:

DT-08

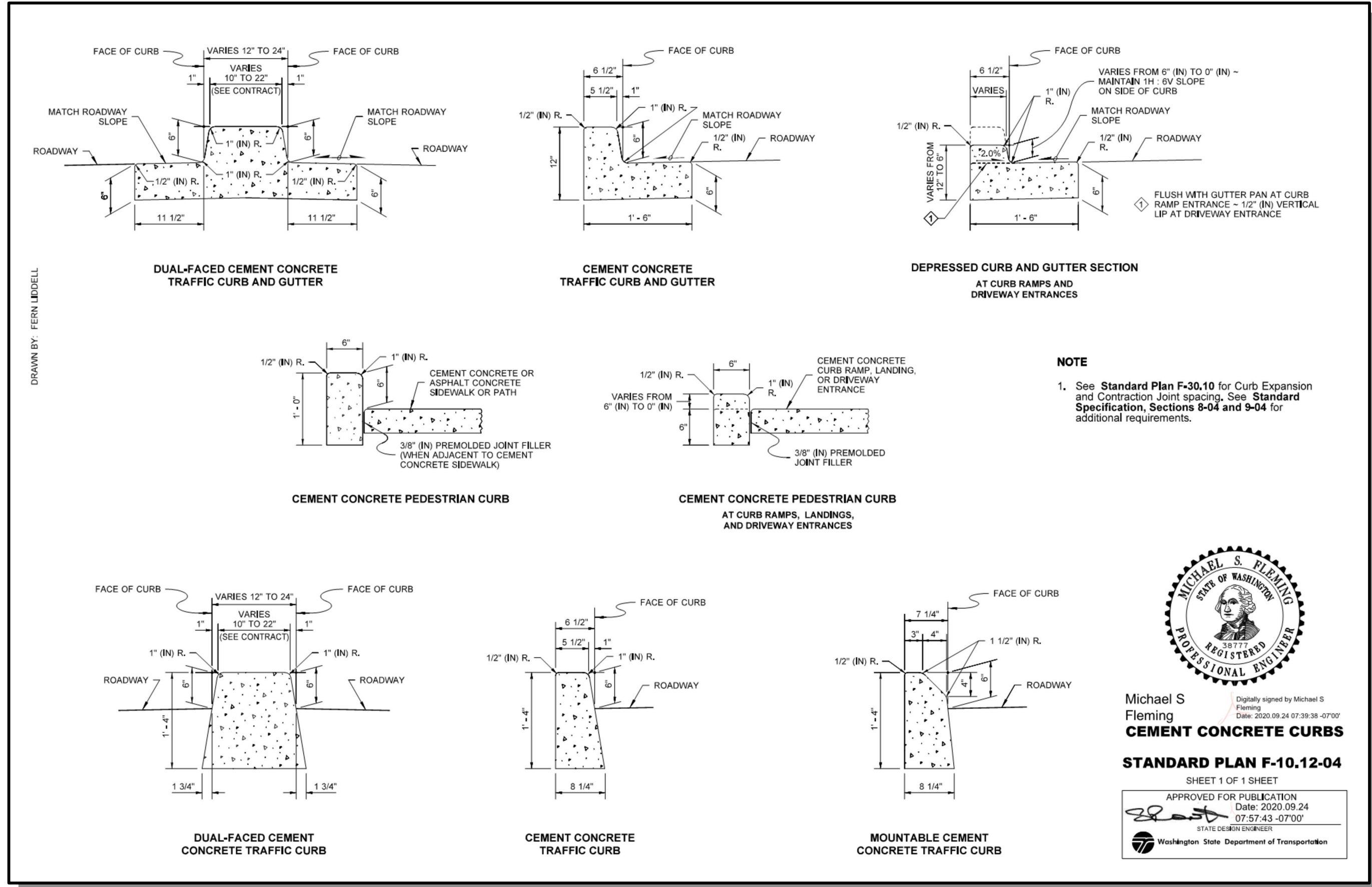
SHT **67** OF **68**



- NOTES:**
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" x 5" (75-125mm) DEEP, DUG ON CONTOUR.
 2. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

STRAW WATTLE

NOT TO SCALE



Michael S. Fleming
Cement Concrete Curbs

STANDARD PLAN F-10.12-04

SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Date: 2020.09.24
07:57:43 -0700
STATE DESIGN ENGINEER
Washington State Department of Transportation

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

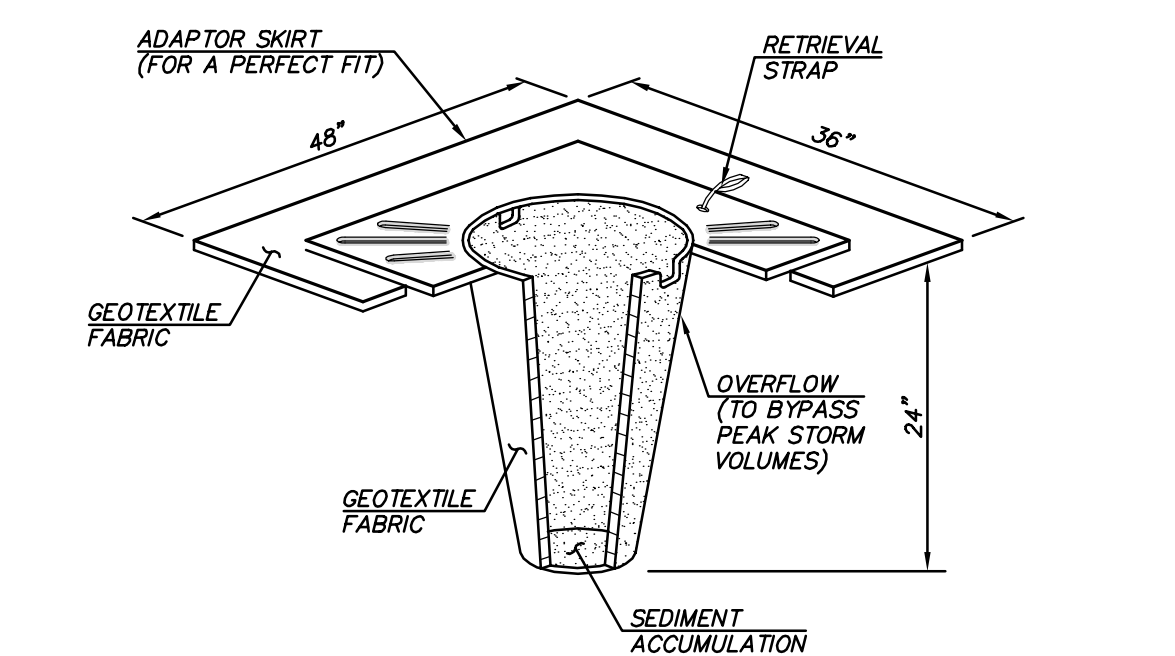
PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

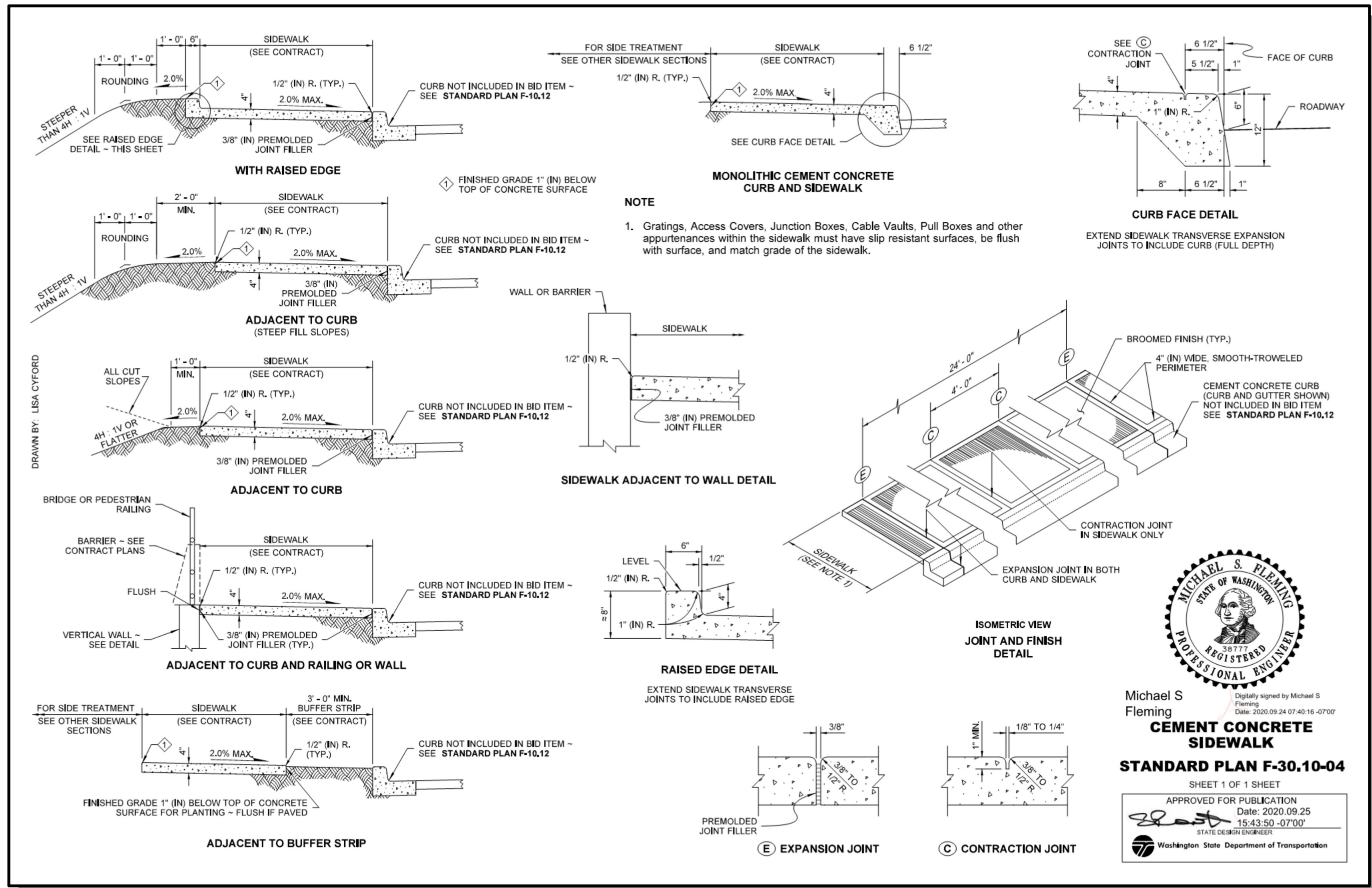
ISSUE DATE:
6/9/2023

NO	DATE	BY	REVISIONS



SEDIMENT CATCH BASIN INSERT

NOT TO SCALE



Michael S. Fleming
Cement Concrete Sidewalk

STANDARD PLAN F-30.10-04

SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Date: 2020.09.25
15:43:50 -0700
STATE DESIGN ENGINEER
Washington State Department of Transportation

STANDARD DETAILS
2023 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

Michael S. Fleming
Cement Concrete Sidewalk

6/9/23

JOB NUMBER:
22-229

SHEET NAME:
DT-09