

LOUIS THOMPSON RD NE WATER MAIN REPLACEMENT

CONSTRUCTION DRAWINGS

JUNE 2024

SEC. 32, TWN. 25, RNG. 06, W.M.

OWNER

SAMMAMISH PLATEAU WATER
1510 - 228TH AVENUE SE
SAMMAMISH, WASHINGTON 98075

CONTACT: JACKSON DOVE, P.E.
PHONE: (425) 295-3228

DESIGN ENGINEER

KPG-PSOMAS
3131 - ELLIOT AVENUE, SUITE 400
SEATTLE, WASHINGTON 98121

CONTACT: JEFFREY FELLOWS, P.E.
PHONE: (206) 267-1057

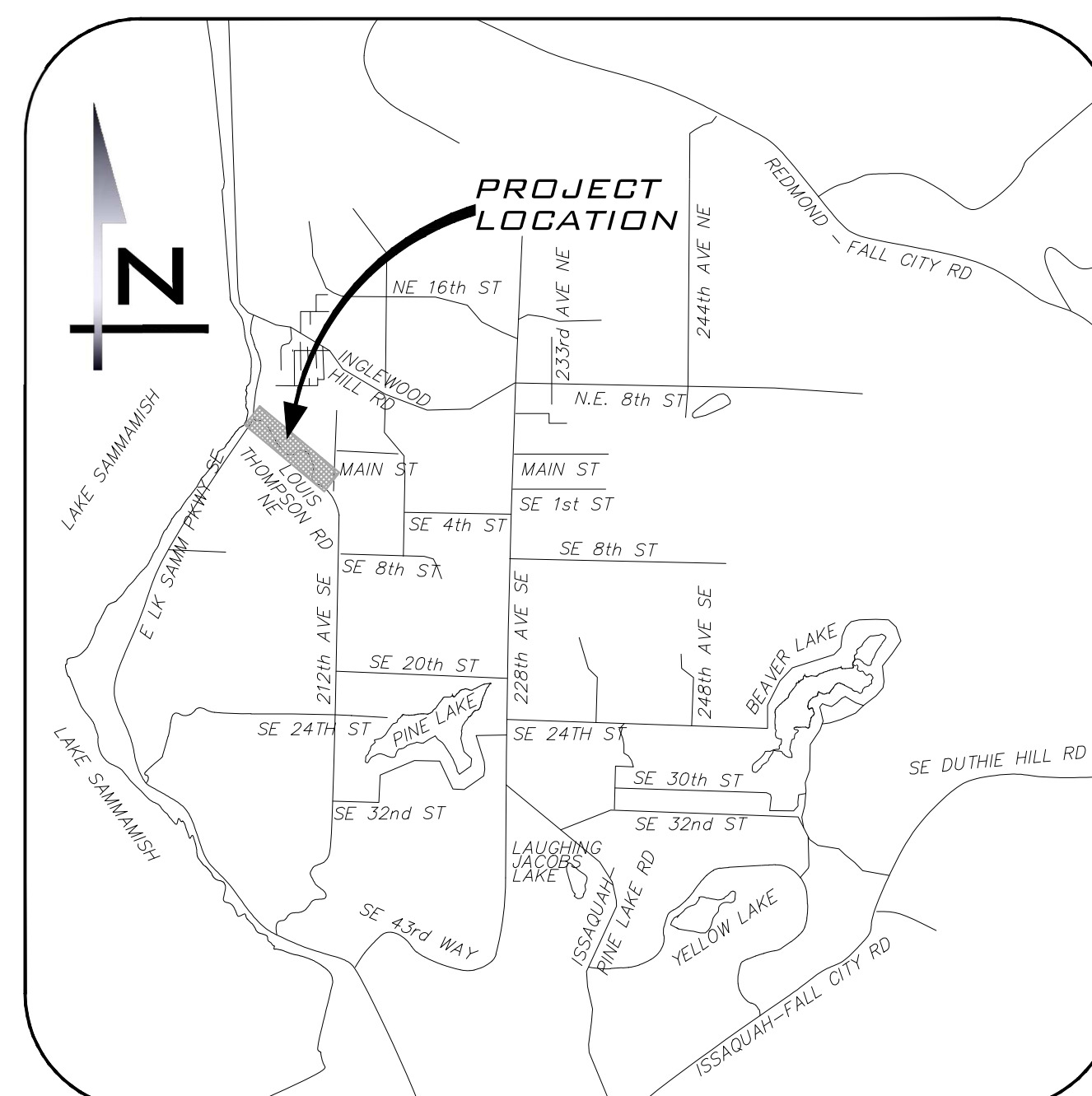
SURVEYOR

CITY OF SAMMAMISH
801 - 228TH AVENUE SE
SAMMAMISH, WASHINGTON 98075

LOCAL JURISDICTION
CITY OF SAMMAMISH

FIRE DISTRICT
EASTSIDE FIRE & RESCUE

* ALL SURVEY BASE MAP FILES ARE
PROVIDED BY THE CITY OF SAMMAMISH.



VICINITY MAP
N.T.S.

LIST OF DRAWINGS

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DISTRICT STANDARD NOTES AND DETAILS ARE LOCATED
AT THE END OF THESE DRAWINGS:

- WATER DETAILS SHEET 1 OF 2
- WATER DETAILS SHEET 2 OF 2
- MATERIALS AND CONSTRUCTION NOTES 1 OF 3
- MATERIALS AND CONSTRUCTION NOTES 2 OF 3
- MATERIALS AND CONSTRUCTION NOTES 3 OF 3

UNDERGROUND UTILITY NOTE

UNDERGROUND 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 (WASHINGTON1.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

SAMMAMISH PLATEAU WATER

APPROVED FOR CONSTRUCTION

Digitally signed by
kyle wong
Date: 2024.07.16
09:18:39-07'00'

ENGINEERING MANAGER

DATE



Know what's below.
Call before you dig.

 **Sammamish Plateau Water**

GENERAL CONSTRUCTION NOTES

- ALL UNSUITABLE MATERIAL SHALL BE IMMEDIATELY PLACED IN TRUCKS AND REMOVED FROM THE PROJECT SITE.
- WHERE NATIVE MATERIAL IS SUITABLE FOR BACKFILL AND COMPACTION TO 95% MODIFIED PROCTOR CAN BE ACHIEVED, NATIVE MATERIAL IS ACCEPTABLE, OTHERWISE, SELECT IMPORT IS REQUIRED FOR BACKFILL AND SHALL BE COMPACTED TO 95% MODIFIED PROCTOR. DURING WET SEASON, OCTOBER 1ST TO MAY 1ST, SELECT IMPORT IS REQUIRED FOR TRENCH BACKFILL.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING AND VEGETATION. CONTRACTOR SHALL OBTAIN DISTRICT APPROVAL BEFORE WORKING IN THE VICINITY OF OR REMOVING ANY NECESSARY VEGETATION.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE DISTRICT'S STANDARD DETAILS AND NOTES. THESE STANDARDS SHALL BE INCLUDED AS PART OF THIS PLAN. THIS PLAN IS INCOMPLETE WITHOUT THE DISTRICT'S STANDARD DETAILS AND NOTES.
- SEE LOUIS THOMPSON TIGHTLINE CONTRACT PLANS AND CONTRACT PROVISIONS FOR ALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) MEASURES AND REQUIREMENTS.
- CONSTRUCTION HOURS ARE LISTED IN THE PROJECT SPECIFICATIONS.
- UNLESS OTHERWISE RESTRICTED BY THE CITY OF SAMMAMISH, LANE RESTRICTIONS SHALL BE ALLOWED DURING NORMAL CONSTRUCTION HOURS. COMPLETE CLOSURE OF LOUIS THOMPSON SHALL NOT BE ALLOWED.
- THE CONTRACTOR SHALL KEEP ON HAND DURING EXCAVATION ROAD PLATES TO COVER THE TRENCHES AS NEEDED TO ALLOW TRAFFIC TO PASS THROUGH.
- THE CONTRACTOR SHALL USE EXTREME CARE IN THE PROTECTION OF ALL BUILDINGS, STRUCTURES, AND LANDSCAPING ("PROPERTY") AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL REPLACE IN KIND ANY DAMAGED PROPERTY UNLESS OTHERWISE DIRECTED BY THE DISTRICT IN WRITING.
- THE CONTRACTOR SHALL COORDINATE WORK WITH THE LOCAL RESIDENCES AS CONSTRUCTION PROCEEDS SO THAT VEHICULAR ACCESS IS PROVIDED AT ALL TIMES. THIS WORK WILL INVOLVE THE CONTRACTOR TO COMMUNICATE DIRECTLY WITH THE OWNERS OF THE INDIVIDUAL RESIDENCE IMPACTED BY ANY TRAFFIC OR ACCESS RESTRICTIONS THROUGHOUT THE DURATION OF CONSTRUCTION.
- WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF 3- FEET OF COVER UNLESS NOTED OTHERWISE IN THE PLANS. WATER MAIN SHALL BE INSTALLED AT A DEPTH AND SLOPE PER THE PROFILE DRAWINGS TO AVOID INTERMEDIATE HIGH POINTS.
- ALL DUCTILE IRON PIPE SHALL BE ZINC COATED CLASS 52.
- CONTRACTOR SHALL SURVEY (HORIZONTAL AND VERTICAL LOCATION) ALL INSTALLED FACILITIES INCLUDING WATER BEND, TEES, VALVES, AIR/VAC ASSEMBLIES, BLOW-OFFS, AND METER BOXES.

GENERAL WATER MAIN NOTES

- ALL PROPOSED CONNECTIONS SHALL BE POTHOLED TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- THE EXISTING WATER MAIN IS PRIMARILY AC PIPE AND IS UNLOCATABLE. THE LOCATION OF THE EXISTING MAIN SHOWN ON THESE DRAWINGS IS ONLY APPROXIMATE.
- WHERE 1 FOOT OF VERTICAL CLEARANCE BETWEEN NEW WATER MAIN AND EXISTING CROSSING FACILITIES CANNOT BE OBTAINED VERTICAL CLEARANCE MAY BE REDUCED TO 6 INCHES WITH THE PERMISSION OF THE UTILITY OWNER AND DISTRICT. USE ETHAFOAM PADS OR APPROVED EQUAL BETWEEN EXISTING UTILITY AND NEW WATER MAIN WHEN VERTICAL CLEARANCE IS LESS THAN 1 FOOT.

ABANDONMENT OF EXISTING UTILITIES

- ALL PIPE ENDS OF ABANDONED UTILITIES SHALL BE CAPPED WITH MJ FITTING AND CONCRETE BLOCKING PRIOR TO BACKFILL.
- WHERE AN EXISTING WATER MAIN WHICH IS TO BE ABANDONED IS CONNECTED TO A PERMANENT MAIN, THE ABANDONED MAIN SHALL BE DISCONNECTED FROM THE PERMANENT MAIN, AND THEN BOTH MAINS SHALL BE CAPPED WITH MJ FITTING AND CONCRETE BLOCKING. IF A VALVE EXISTS BETWEEN THE PERMANENT AND ABANDONED MAIN, THE VALVE SHALL BE REMOVED AND THE TEE PLUGGED OR BLIND FLANGED IN ACCORDANCE WITH DISTRICT STANDARDS. A THRUST BLOCK SHALL BE INSTALLED ON THE END OF THE PERMANENT MAIN AS NEEDED OR AS DIRECTED BY THE DISTRICT.
- ABANDONMENT OF EXISTING WATER SERVICES SHALL ONLY BE ALLOWED WHEN THE NEW SERVICE HAS BEEN INSTALLED, TESTED, AND ACCEPTED BY THE DISTRICT. AFTER DISTRICT APPROVAL, THE EXISTING SUPPLY LINE SHALL BE RELOCATED AND CONNECTED TO THE NEW METER SETTER. IF NECESSARY, THE CONTRACTOR SHALL INSTALL A TEMPORARY IDLER TO PROVIDE WATER TO THE EXISTING CUSTOMER. THE EXISTING METER SHALL BE RETURNED TO THE DISTRICT FOR REPLACEMENT AND OR RE-USE.
- WHEN ABANDONING AN EXISTING WATER SERVICE ON A WATER MAIN THAT IS TO BE ABANDONED, THE CONTRACTOR SHALL REMOVE THE METER BOX, SETTER AND ALL FITTINGS. THE SERVICE LINE SHALL BE CAPPED OR PLUGGED AND LEFT IN PLACE.
- WHEN ABANDONING AN EXISTING BLOW-OFF ON AN ABANDONED WATER MAIN THE EXISTING BLOW-OFF SHALL BE REMOVED, THE PIPING PLUGGED, THE VALVE ABANDONED IN PLACE, AND THE VALVE CAN, MARKER AND METER BOX REMOVED AND BACKFILLED WITH 1-1/4" MINUS CRUSHED ROCK.
- WHEN ABANDONING EXISTING VALVES IN PLACE, THE VALVE SHALL BE CLOSED, THE VALVE CAN AND VALVE MARKER REMOVED AND THE HOLE BACKFILLED WITH 1-1/4" CRUSHED ROCK.
- REMOVE EXISTING PRV CONTROL VALVE AND PROVIDE TO DISTRICT FOR SALVAGE PRIOR TO ABANDONING EXISTING PRV VAULT.

EXISTING WATER SUPPLY LINES

- WATER SUPPLY LINES ARE DEFINED AS THE SMALL DIAMETER PIPES EXTENDING FROM THE DISTRICT'S WATER METER TO THE CUSTOMER'S HOUSE. THESE LINES ARE PRIVATELY OWNED BY THE INDIVIDUAL HOMEOWNER.
- THE DISTRICT HAS LIMITED KNOWLEDGE OF THE EXACT LOCATION OF THE EXISTING INDIVIDUAL SUPPLY LINES FOR THE WATER SUPPLY LINES TO EACH LOT. ANY INFORMATION SHOW ON THE DRAWINGS IS ONLY APPROXIMATE.
- THE CONTRACTOR SHALL CONNECT ALL NEW WATER SERVICES TO EXISTING SUPPLY LINES ONLY AFTER DISTRICT APPROVAL. THE CONTRACTOR SHALL UTILIZE STANDARD CONSTRUCTION PRACTICES AND USE BRASS MATERIALS IN ALL SUPPLY LINE CONNECTIONS UNLESS DIRECTED OTHERWISE BY THE DISTRICT.
- THE CONTRACTOR SHALL LOCATE, PROTECT AND REPAIR IN KIND ALL EXISTING WATER SUPPLY LINES.
- THE CONTRACTOR SHALL PROTECT AND RECONNECT ANY CUSTOMER PRVS OR IRRIGATION BOXES ALTERED DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR IN KIND ANY PRV OR IRRIGATION SYSTEM DAMAGED DURING CONSTRUCTION.

TESC NOTES

- SEE LOUIS THOMPSON TIGHTLINE CONTRACT PLANS AND CONTRACT PROVISIONS FOR ALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) MEASURES AND REQUIREMENTS.
- UNLESS OTHERWISE NOTED OR DIRECTED, EXCAVATED MATERIAL IS TO BE PLACED IN TRUCKS AND NOT SPOILED ON SITE.
- ALL STOCKPILED MATERIALS WILL BE REMOVED BY THE END OF EACH DAY ELIMINATING THE NEED TO USE CLEAR PLASTIC COVERING. IN THE EVENT ANY STOCKPILING MAY OCCUR, CLEAR PLASTIC COVERING WILL BE INSTALLED ON ANY STOCKPILES OF DIRT. THE COVER WILL BE INSTALLED IMMEDIATELY AND THERE WILL BE AT LEAST A 12-INCH OVERLAP AT ALL SEAMS. ALL SEAMS WILL BE TAPED OR WEIGHTED DOWN FOR THE FULL LENGTH OF THE SEAM.
- AT THE END OF EACH DAY, STREETS WILL BE SWEEPED AND BROOM CLEANED. ALL EXPOSED AREAS WILL HAVE TEMPORARY ASPHALT PATCHES.
- DO NOT BLOCK ACCESS TO ANY TAX LOTS UNLESS APPROVED BY THE DISTRICT.

PAVEMENT RESTORATION NOTES

- THE CONTRACTOR SHALL NOT COMPLETE ANY SAW CUTTING UNTIL ALL UTILITY LOCATE MARKINGS HAVE BEEN PROVIDED.
- THE CONTRACTOR SHALL INSTALL TEMPORARY AND PERMANENT ASPHALT TRENCH PATCHES IN ACCORDANCE WITH THE PROJECT MANUAL.
- ASPHALT TRENCH PATCHING WITH HMA SHALL BE COMPLETED WITHIN 72 HOURS UNLESS OTHERWISE DIRECTED BY THE DISTRICT. COLD MIX ASPHALT WILL ONLY BE ALLOWED FOR 72 HOURS UNLESS OTHERWISE DIRECTED BY THE DISTRICT. ROAD PLATES SHALL BE INSTALLED WHERE LONG TERM ACCESS TO THE TRENCH IS REQUIRED (IE. CUT-IN/TESTING LOCATIONS).
- ALL ASPHALT PAVEMENT RESTORATION SHALL BE MADE WITH A MINIMUM 6-INCH LIFT OF COMPACTED (95% STANDARD DENSITY) CRUSHED SURFACING TOP COURSE (5/8-INCH MINUS) AND 3-INCH MINIMUM (COMPACTED THICKNESS) OF HMA CL 1/2". THE PAVEMENT RESTORATION SHALL EXTEND A MINIMUM OF 12-INCHES (EACH SIDE) BEYOND THE CONSTRUCTED TRENCH WIDTHS. WHEN EXISTING ASPHALT THICKNESS IS FOUND TO BE GREATER THAN 2 INCHES, HMA CL 1/2" SHALL BE PLACED, IN MAXIMUM 2-INCH LIFTS, TO A DEPTH OF 1-INCH OVER EXISTING PAVEMENT THICKNESS. SEAL EDGES WITH SEALER CSS1 AND SEAL SURFACE JOINT WITH HOT ASPHALT IN AREAS THAT WILL NOT HAVE AN OVERLAY.
- SEAL ALL JOINT WITH AR4000W AND APPLY SAND BLANKET TO THE SURFACE JOINT WHEN MATCHING EXISTING PAVEMENT.
- WHERE EXISTING ASPHALT PAVEMENT HAS BEEN DAMAGED DUE TO CONSTRUCTION ACTIVITIES, TRENCH PATCHING WILL BE EXTENDED BEYOND THE RESTORATION LIMITS UNDER THE DISTRICT'S DIRECTION.
- THE CONTRACTOR SHALL PROTECT AND REPAIR IN KIND ALL EXISTING CONCRETE, DRIVEWAYS, SIDEWALKS, CURBS, WALKWAYS, RAILROAD TIES, ROCKERIES, LANDSCAPING, FENCING AND BUILDINGS.
- AFTER FINAL PAVING, THE CONTRACTOR SHALL RESTORE ALL EXISTING SHOULDERS WITH A MINIMUM OF 2-INCH COMPACTED THICKNESS OF CRUSHED SURFACING TOP COURSE, SO THAT THE SHOULDERS ARE LEVEL WITH THE EDGE OF THE ASPHALT.

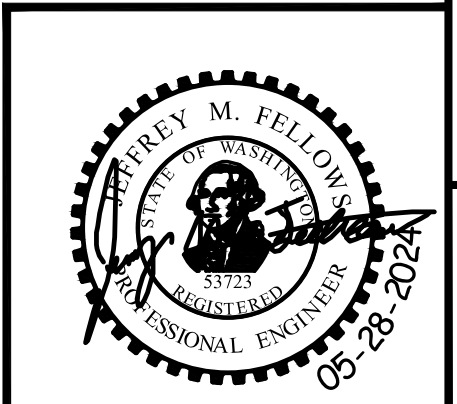
REVISIONS	BY	DATE

Sammamish Plateau Water
 1510 228th Avenue SE, Sammamish, WA 98075
 425.392.6256 • spwater.org

**LOUIS THOMPSON RD NE
 WATER MAIN REPLACEMENT**
GENERAL NOTES

DATE: 05/2024
DRAWN: MM
CHECKED: JMF
JOB NO: 95AM020100

SHEET
2
OF
22



EXISTING LEGEND

- MONUMENT IN CASE (FOUND AS NOTED)
- IRON PIPE (FOUND AS NOTED)
- REBAR (FOUND AS NOTED)
- GAS VALVE
- POWER JUNCTION/PULL BOX
- POWER POLE
- POWER POLE/LIGHT POLE
- LIGHT POLE WITH ARM
- LIGHT POLE
- GUY ANCHOR
- SIGNAL POLE W/ ARM
- TRAFFIC SIGNAL/STREET LIGHT
- PEDESTRIAN SIGNAL
- TRAFFIC SIGNAL CABINET
- TELEPHONE RISER
- TELEPHONE JUNCTION BOX
- TELEPHONE POLE
- FIBER OPTIC MANHOLE
- FIRE HYDRANT
- IRRIGATION CONTROL VALVE
- WATER BLOW-OFF
- WATER METER
- WATER VALVE
- WATER VAULT
- STORM AREA DRAIN
- STORM CATCH BASIN
- STORM CLEANOUT
- STORM DRAIN MANHOLE
- STORM CULVERT
- SEWER MANHOLE
- POST OR BOLLARD
- MAILBOX
- SIGN
- WETLAND FLAG
- WETLAND DATA PLOT
- UTILITY BORE HOLE
 - G = PSE GAS
 - T = TELECOM (ZAYO OR COMCAST)
 - Z = ZAYO
 - C = COMCAST
 - P = PSE ELECTRICAL
 - W = SPWSD WATER
- TAX LOT / PARCEL NUMBER
- ROCKERY
- STUMP
- DECIDUOUS TREE
- DECIDUOUS
- MAPLE
- CONIFEROUS/EVERGREEN TREE
- EXISTING RIGHT-OF-WAY LINE
- PARCEL LINE
- GUARD RAIL
- TRAFFIC STRIPING
- CHAIN LINK FENCE LINE (CLF)
- WOOD FENCE LINE (WDF)
- EDGE OF GRAVEL
- FLOWLINE
- EDGE OF DITCH
- TOE OF SLOPE
- TOP OF SLOPE
- NATURAL GAS PIPE
- POWER LINE
- POWER OVERHEAD LINE
- TELEPHONE LINE
- TELEPHONE OVERHEAD LINE
- FIBER OPTIC LINE
- WATER PIPE

EXISTING LEGEND CONT'D

- STORM DRAIN PIPE
- STREAM
- WETLAND
- STREAM/WETLAND BUFFER
- BUILDING LINE
- WATER PIPE (GIS)

PROPOSED LEGEND

- PROPOSED WATER MAIN
- PROPOSED WATER SERVICE
- VALVE
- BEND
- COUPLING
- FIRE HYDRANT
- CROSS OR TEE
- WATER METER
- BLOW OFF
- AIR-VAC ASSEMBLY
- PRV STATION VAULT
- DAVIT SOCKET FOUNDATION
- REMOVE EXISTING AC WATER MAIN
- ABANDON EXISTING WATER MAIN
- PROPOSED DISTRICT 2" OVERLAY AREA
- PROPOSED DISTRICT 2" OVERLAY LIMITS
- PROPOSED STORM DRAIN (BY OTHERS)
- PROPOSED STORM STRUCTURE (BY OTHERS)
- PROPOSED STREET LIGHTING CONDUIT (BY OTHERS)
- PROPOSED GRADING LIMITS - FILL (BY OTHERS)
- PROPOSED GRADING LIMITS - CUT (BY OTHERS)
- PSE GAS (BY OTHERS)
- ABANDONED PSE GAS (BY OTHERS)

ABBREVIATIONS

- ϕ DIAMETER
- ACI AMERICAN CONCRETE INSTITUTE
- APPROX APPROXIMATE
- AVE AVENUE
- BRNG BEARING
- C CURVE
- CL CENTER LINE, CLASS
- CLR. CLEAR
- DI DUCTILE IRON
- E EAST
- EX EXISTING
- F'C COMPRESSIVE STRENGTH
- FG FINISHED GRADE
- FL FLANGE
- FY YIELD STRENGTH
- G GAS
- Ga. GAUGE
- HMA HOT MIX ASPHALT
- IBC INTERNATIONAL BUILDING CODE
- L LINE
- LT LEFT
- LTR LOUIS THOMPSON ROAD NORTHEAST
- M WATER METER
- MJ MECHANICAL JOINT
- N NORTH
- NE NORTHEAST
- PI POINT OF INTERSECTION
- PL PLACE
- PRV PRESSURE REDUCING VALVE
- PSF POUNDS PER SQUARE FOOT
- RD ROAD
- RJ RESTRAINED JOINT
- RT RIGHT
- S SOUTH
- SPWSD SAMMAMISH PLATEAU WATER AND SEWER DISTRICT
- ST STREET
- STA STATION
- STD STANDARD
- STDS TELECOM
- T TANGENT
- TAN TEMPORARY EROSION AND SEDIMENT CONTROL
- TELE TELECOM
- TESC TOTAL
- TOT. TYPICAL
- TYP WEST
- W WATER
- W.M. WILLAMETTE MERIDIAN
- WA WATER
- WM WATER MAIN

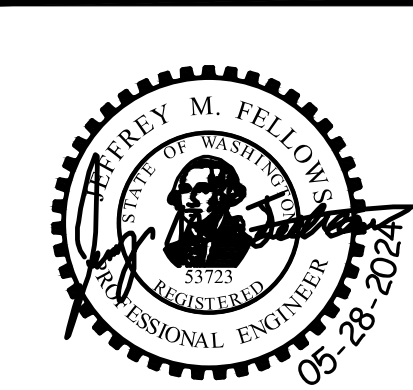
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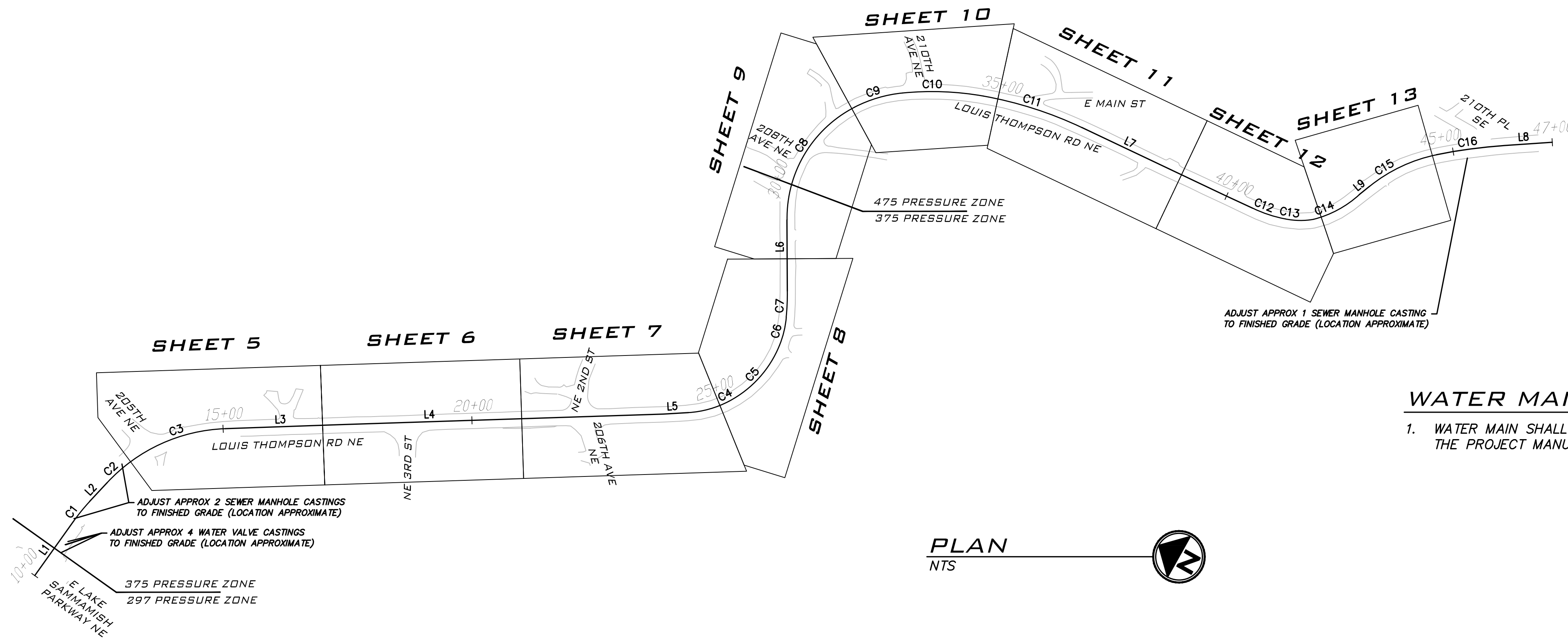
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 OF
22



SURVEY NOTES

- THIS SURVEY WAS PERFORMED JANUARY THROUGH AUGUST, 2022 IN SUPPORT OF CITY OF SAMMAMISH LOUIS THOMPSON ROAD TIGHTLINE PROJECT AND IS INTENDED TO BE USED FOR THIS PURPOSE. SPECIFIC INFORMATION SHOWN HEREON SHOULD BE VERIFIED AS TO ITS ACCURACY IF THIS SURVEY IS TO BE USED FOR PURPOSES OTHER THAN WHAT IT WAS INTENDED FOR.
- FIELD MEASUREMENTS FOR THIS SURVEY WERE PERFORMED USING TRIMBLE R12i GPS RECEIVERS AND A TRIMBLE S7 TOTAL STATION. THIS SURVEY COMPLIES WITH THE MINIMUM REQUIRED "ERROR OF CLOSURE" OF 1:10,000 FOR WASHINGTON STATE PLANE COORDINATES AS SET FORTH PER W.A.C. 332-130-090 (AND POSITIONAL TOLERANCE LEVELS OF LESS THAN 0.011 METERS).
- BASIS OF BEARING: WASHINGTON COORDINATE SYSTEM, NORTH ZONE, NAD83-2011
- VERTICAL DATUM: NAVD 88
- CONTOUR INTERVAL: 1 FOOT
- PROPERTY LINES SHOWN HEREON ARE BASED ON READILY AVAILABLE PLATS, SURVEYS, RIGHT OF WAY PLANS, KING COUNTY ASSESSOR INFORMATION AND GIS DATA.
- ALL SURVEY MONUMENTS AND OTHER SURVEY MARKERS SHOWN HEREON WERE VISITED DURING JANUARY, 2022 UNLESS OTHERWISE INDICATED.
- THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT, ACCORDINGLY, ANY EASEMENTS OR RESTRICTIONS OF RECORD WHICH MAY BE REVEALED IN A TITLE REPORT HAVE NOT BEEN INCLUDED HEREON.
- UNDERGROUND UTILITIES SHOWN REPRESENT FIELD SURVEYED PAINT MARKS AS PLACED ON THE GROUND BY A UTILITY LOCATE SERVICE TOGETHER WITH AVAILABLE UTILITY AS-BUILT AND REFERENCE DRAWINGS. NO GUARANTEE IS MADE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED OR THAT THE UNDERGROUND UTILITIES ARE SHOWN IN THEIR EXACT LOCATION. THE UTILITIES ARE SHOWN AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION.
- SUBSURFACE CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.
- 1-800-424-5555 MUST BE CALLED NOT LESS THAN 48 HOURS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. FAILURE TO DO SO COULD MEAN BEARING SUBSTANTIAL REPAIR COSTS. (UP TO THREE TIMES THE COST OF REPAIRS TO THE SERVICE).

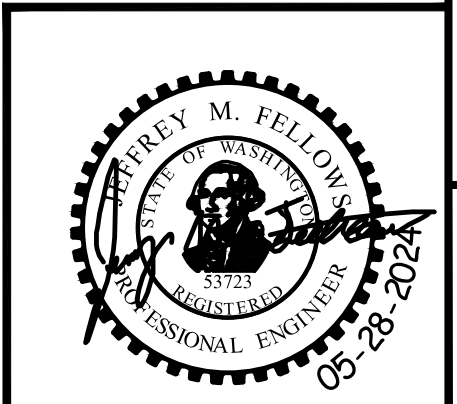
LOUIS THOMPSON RD NE								
NUMBER	START STA	NORTHING	EASTING	LENGTH	BRNG/DELTA	RADIUS	PI STA	TAN
L1	10+00.00	226111.23	1335859.63	135.30'	S 83°36'02" E			
C1	11+35.30	226096.15	1335994.08	49.90'	7°25'32"	385.00'	11+60.28	24.98'
L2	11+85.19	226087.39	1336043.17	51.51'	S 76°10'30" E			
C2	12+36.70	226075.09	1336093.19	267.67'	45°00'26"	340.76'	13+77.87	141.17'
C3	12+36.70	226075.09	1336093.19	267.67'	45°00'26"	340.76'	13+77.87	141.17'
L3	15+04.38	225920.56	1336303.33	229.03'	S 31°10'04" E			
L4	17+33.41	225724.59	1336421.87	650.50'	S 30°58'32" E			
L5	23+83.91	225166.85	1336756.66	50.83'	S 32°33'15" E			
C4	24+34.74	225124.01	1336784.01	84.89'	24°19'14"	200.00'	24+77.84	43.10'
C5	25+19.63	225064.13	1336843.30	154.56'	40°15'10"	220.00'	26+00.26	80.62'
C6	26+74.19	225030.07	1336990.81	58.48'	16°45'13"	200.00'	27+03.64	29.45'
C7	27+32.68	225045.64	1337046.97	52.59'	5°24'32"	557.07'	27+58.99	26.31'
L6	27+85.26	225069.17	1337093.98	142.90'	N 60°34'29" E			
C8	29+28.16	225139.37	1337218.44	278.14'	63°44'00"	250.05'	30+83.60	155.44'
C9	32+06.30	225130.89	1337482.33	101.30'	21°29'44"	270.00'	32+57.55	51.25'
C10	33+07.60	225060.36	1337554.21	162.69'	15°47'58"	590.00'	33+89.46	81.87'
C11	34+70.29	224915.72	1337627.57	207.97'	15°10'46"	785.00'	35+74.89	104.60'
L7	36+78.26	224712.46	1337668.58	320.05'	S 3°45'05" E			
C12	40+57.90	224333.68	1337694.05	68.89'	14°34'38"	270.78'	40+92.53	34.63'
C13	41+26.79	224266.19	1337706.93	57.13'	21°32'55"	151.90'	41+55.70	28.91'
C14	41+83.92	224216.20	1337733.88	105.24'	28°02'46"	215.00'	42+37.62	53.70'
L9	42+89.16	224160.28	1337821.80	26.64'	S 67°59'45" E			
C15	43+15.80	224150.30	1337846.50	150.58'	27°23'20"	315.00'	43+92.56	76.76'
C16	44+66.38	224063.26	1337967.62	137.87'	7°35'44"	1040.00'	45+35.42	69.04'
L8	46+04.25	223952.96	1338050.17	95.75'	S 32°59'45" E			



PLAN
NTS

WATER MAIN CONSTRUCTION SEQUENCING NOTES

- WATER MAIN SHALL BE CONSTRUCTED IN THE SEQUENCE OUTLINED IN SECTION 01014 OF THE PROJECT MANUAL.



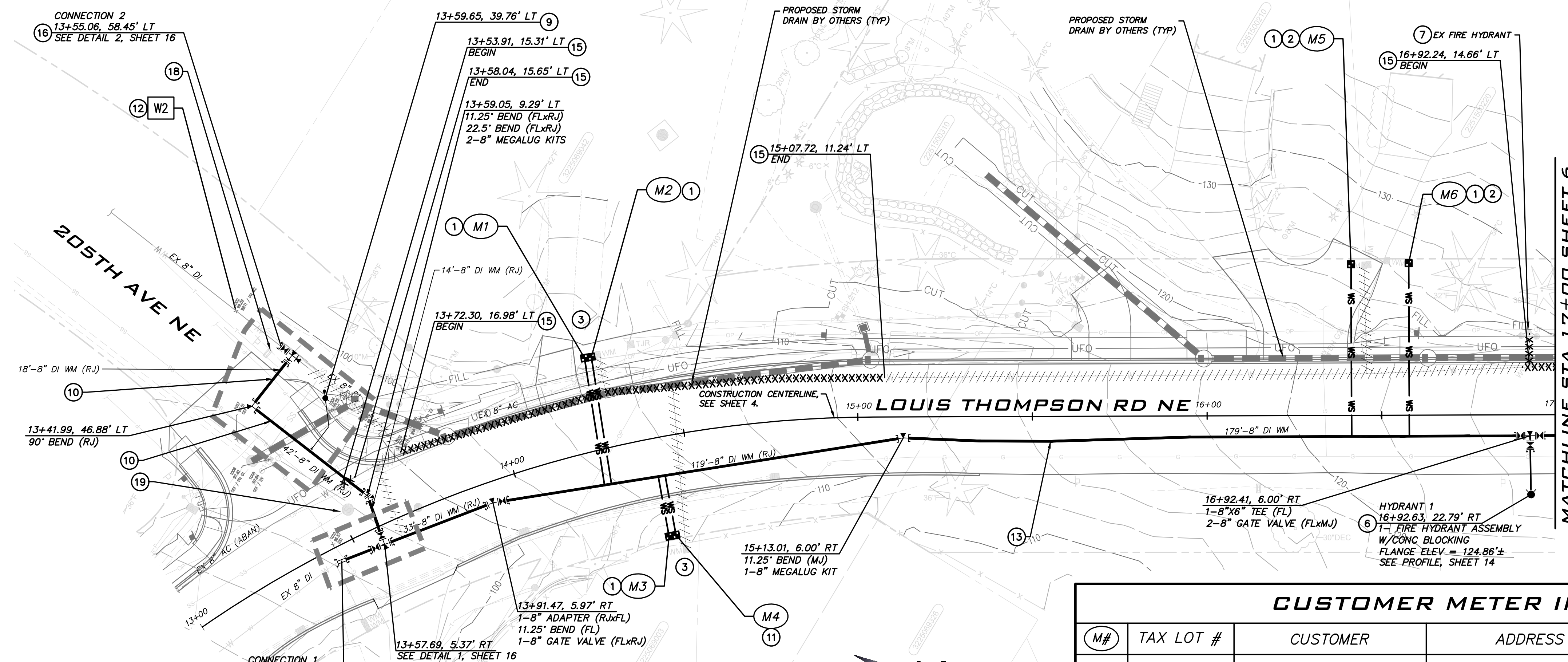
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 SURVEY CONTROL & ALIGNMENT PLAN**

DATE: 05/2024
 DRAWN: MM
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SHEET
4
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22



GENERAL NOTES

- SEE SHEET 2 FOR GENERAL WATER NOTES.
- ALL WORK AND MATERIALS TO BE IN CONFORMANCE WITH SAMMAMISH PLATEAU WATER AND SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
- PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING WATER MAINS TO DETERMINE HORIZONTAL LOCATIONS AND NOTIFY ENGINEER IF LOCATIONS ARE DIFFERENT THAN SHOWN ON THE PLANS.
- PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING UTILITIES AT ALL PROPOSED WATER MAIN CROSSINGS TO DETERMINE HORIZONTAL AND VERTICAL LOCATIONS AND CONSULT ENGINEER IF CONFLICTS ARE IDENTIFIED.
- WATER MAIN SHALL BE INSTALLED AT THE DEPTH AND SLOPE PER THE PROFILE DRAWINGS IN ORDER TO AVOID INTERMEDIATE HIGH SPOTS. WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF 3'-FEET OF COVER UNLESS NOTED OTHERWISE.
- CROSSING INFORMATION SHOWN WHERE VERTICAL SEPARATION IS < 4'.
- ALL DEFLECTIONS FOR DUCTILE IRON WATER MAIN PIPE SHALL BE LESS THAN HALF THE MANUFACTURERS SPECIFIED MAXIMUM DEFLECTION.
- NOT ALL REMOVALS/ABANDONMENT OF EXISTING WATER MAIN PIPE ARE SHOWN FOR CLARITY.
- CONTRACTOR SHALL STAKE FIRE HYDRANT ASSEMBLY LOCATIONS AND FLANGE ELEVATIONS FOR SPWSD AND CITY OF SAMMAMISH APPROVAL PRIOR TO CONSTRUCTION OF FIRE HYDRANT ASSEMBLIES.

CONSTRUCTION NOTES

- INSTALL 1" WATER SERVICE LINE WITH SINGLE 1" METER SETTER WITH A24 3/4" BRASS METER ADAPTERS.
- INSTALL TRAFFIC BEARING METER BOX LID PER SPWSD STDS.
- EXISTING DOUBLE METER TO BE SEPARATED INTO 2 SERVICES.
- CONSTRUCT FIRE HYDRANT ASSEMBLY PER SPWSD STDS.

CUSTOMER METER INFORMATION

M#	TAX LOT #	CUSTOMER	ADDRESS	METER #	COMMENT
M1	322506-9042	KAARE BURG CONSTRUCTION	220 LOUIS THOMPSON RD NE	1690106020	WATER SERVICE TO BE REPLACED
M2	322506-9042	SVEN BURG	336 LOUIS THOMPSON RD NE	1800008511	WATER SERVICE TO BE REPLACED
M3	322506-9003	LSHERIF MAHMOUD	330 205TH CT NE	1600008067	WATER SERVICE TO BE REPLACED
M4	322506-9326	LIXIANG SHI	320 205TH CT NE	1600022214	WATER SERVICE TO BE REPLACED
M5	225150-0210	GOPAL BHIMANADAM	328 LOUIS THOMPSON RD NE	1690106025	WATER SERVICE TO BE REPLACED
M6	225150-0220	KEITH A BOLSTER	322 LOUIS THOMPSON RD NE	1900123335	WATER SERVICE TO BE REPLACED

CONSTRUCTION NOTES CONT'D

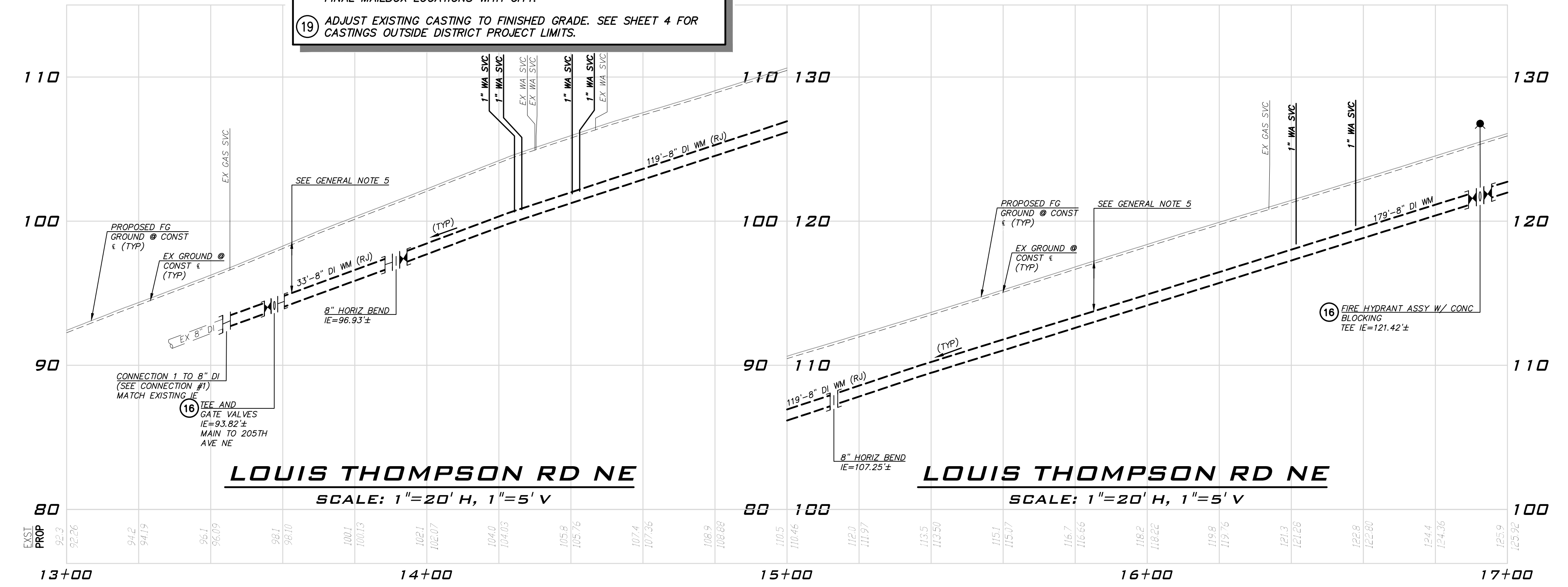
- DEFLECT WATER MAIN ALIGNMENT AS NECESSARY BETWEEN IDENTIFIED FITTINGS, SEE GENERAL NOTE 7.
- ABANDON OR REMOVE EXIST WATER MAIN PER PROJECT MANUAL SECTIONS 01500, 01800, AND 02550.
- FOR LATERAL MAIN AND HYDRANT PROFILES, SEE SHEETS 14-15, 19.
- SALVAGE AND RELOCATE EXISTING MAILBOXES DURING CONSTRUCTION. REPLACE MAILBOXES IN KIND AFTER CONSTRUCTION. COORDINATE FINAL MAILBOX LOCATIONS WITH CITY.
- ADJUST EXISTING CASTING TO FINISHED GRADE. SEE SHEET 4 FOR CASTINGS OUTSIDE DISTRICT PROJECT LIMITS.

CONSTRUCTION NOTES CONT'D

- REMOVE EXISTING FIRE HYDRANT ASSEMBLY AND ABANDON WATER MAIN PER SPWSD STDS.
- CONSTRUCT 2" AIR-VAC ASSEMBLY PER SPWSD STDS.
- POTHOLE UTILITY PRIOR TO CONSTRUCTING WATER MAIN, NOTIFY ENGINEER OF ANY CONFLICTS.
- INSTALL 1" WATER SERVICE LINE WITH SINGLE 1" METER SETTER.
- POTHOLE, REFER TO EXISTING LEGEND, SHEET 3, AND APPENDIX H OF THE CONTRACT PROVISIONS FOR POTHOLE DATA.

UNDERGROUND UTILITY NOTE

UNDERGROUND 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 (WASHINGTON11.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

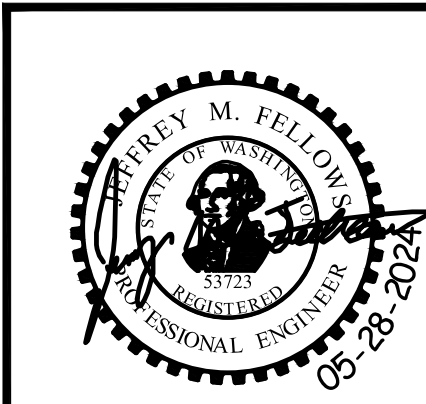


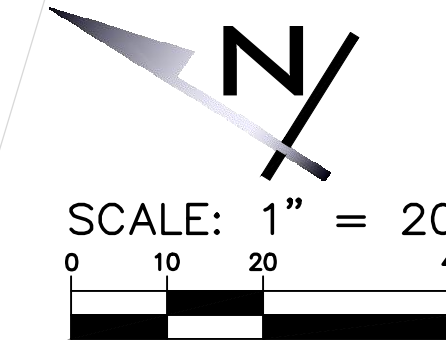
Sammamish Plateau Water
 1510 228th Avenue SE, Sammamish, WA 98075
 425.392.6256 • spwater.org

LOUIS THOMPSON RD NE
WATER MAIN REPLACEMENT
WATER PLAN & PROFILE
STA 13+00 TO STA 17+00

DATE: 05/2024
 DRAWN: MM
 CHECKED: JMF
 JOB NO.: 95SAM020100

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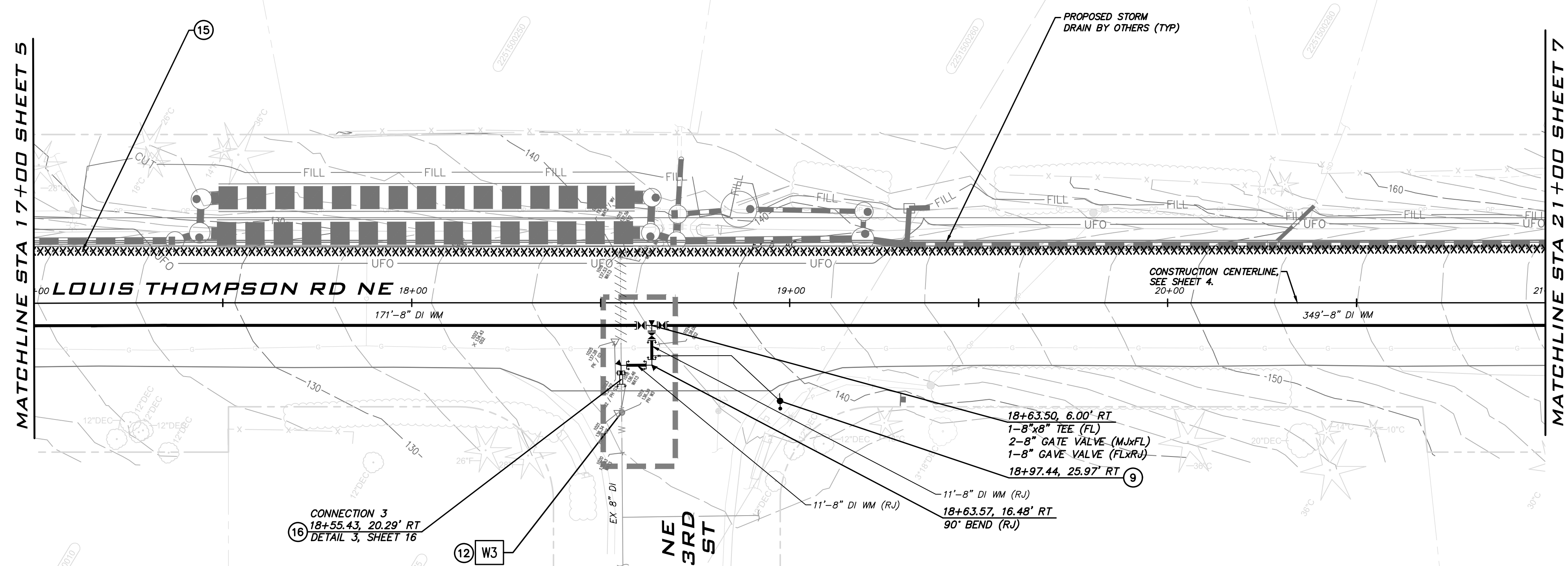


GENERAL NOTES

1. SEE SHEET 2 FOR GENERAL WATER NOTES.
2. ALL WORK AND MATERIALS TO BE IN CONFORMANCE WITH SAMMAMISH PLATEAU WATER AND SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
3. PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING WATER MAINS TO DETERMINE HORIZONTAL LOCATIONS AND NOTIFY ENGINEER IF LOCATIONS ARE DIFFERENT THAN SHOWN ON THE PLANS.
4. PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING UTILITIES AT ALL PROPOSED WATER MAIN CROSSINGS TO DETERMINE HORIZONTAL AND VERTICAL LOCATIONS AND CONSULT ENGINEER IF CONFLICTS ARE IDENTIFIED.
5. WATER MAIN SHALL BE INSTALLED AT THE DEPTH AND SLOPE PER THE PROFILE DRAWINGS IN ORDER TO AVOID INTERMEDIATE HIGH SPOTS. WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF 3'-FEET OF COVER UNLESS NOTED OTHERWISE.
6. CROSSING INFORMATION SHOWN WHERE VERTICAL SEPARATION IS < 4'.
7. ALL DEFLECTIONS FOR DUCTILE IRON WATER MAIN PIPE SHALL BE LESS THAN HALF THE MANUFACTURERS SPECIFIED MAXIMUM DEFLECTION.
8. NOT ALL REMOVALS/ABANDONMENT OF EXISTING WATER MAIN PIPE ARE SHOWN FOR CLARITY.
9. CONTRACTOR SHALL STAKE FIRE HYDRANT ASSEMBLY LOCATIONS AND FLANGE ELEVATIONS FOR SPWSD AND CITY OF SAMMAMISH APPROVAL PRIOR TO CONSTRUCTION OF FIRE HYDRANT ASSEMBLIES.

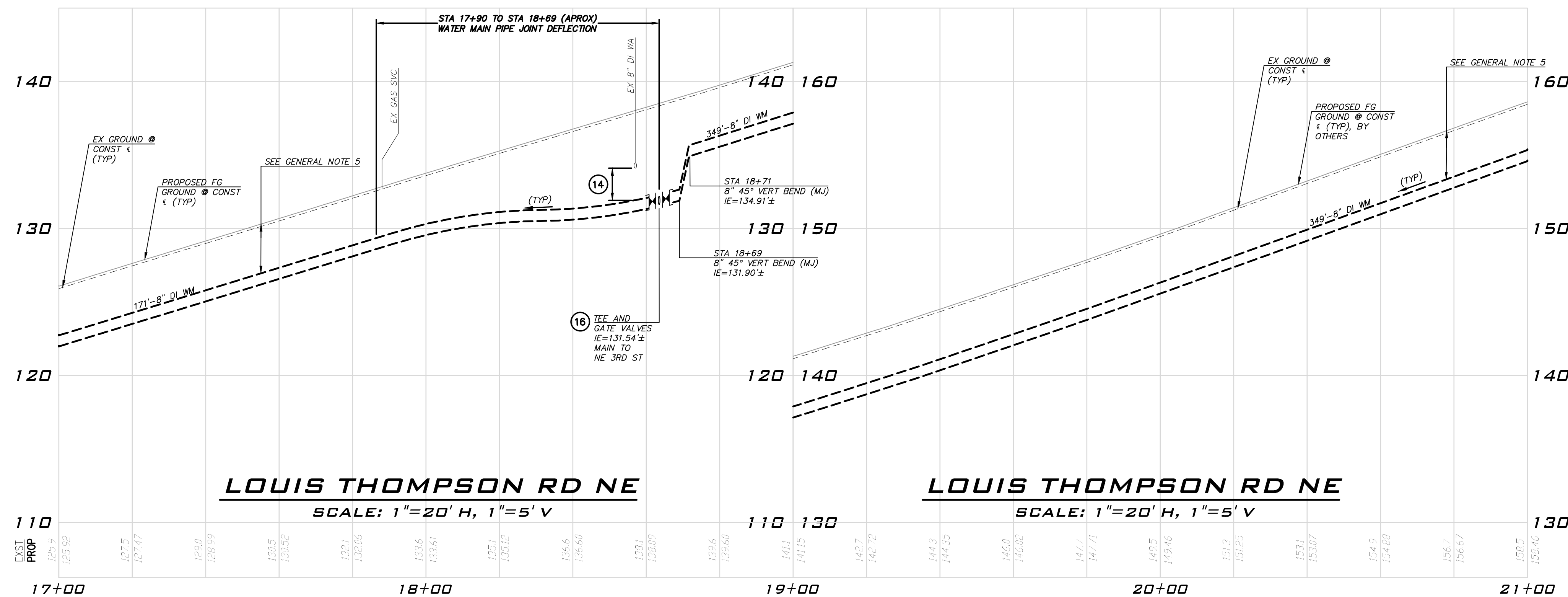
CONSTRUCTION NOTES

9. CONSTRUCT 2" AIR-VAC ASSEMBLY PER SPWSD STDS.
12. POT HOLE, REFER TO EXISTING LEGEND, SHEET 3, AND APPENDIX H OF THE CONTRACT PROVISIONS FOR POT HOLE DATA.
14. SEE WATER MAIN GENERAL NOTE 3, SHEET 2 FOR CROSSING UTILITY CLEARANCE REQUIREMENTS.
15. ABANDON OR REMOVE EXIST WATER MAIN PER PROJECT MANUAL SECTIONS 01500, 01800, AND 02550.
16. FOR LATERAL MAIN AND HYDRANT PROFILES, SEE SHEETS 14-15, 19.



CUSTOMER METER INFORMATION

M#	TAX LOT #	CUSTOMER	ADDRESS	METER #	COMMENT
(NO SERVICES ON THIS SHEET)					



UNDERGROUND UTILITY NOTE

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REVISIONS	BY	DATE

Sammamish Plateau Water
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 425.392.6256 • spwater.org

**LOUIS THOMPSON RD NE
 WATER MAIN REPLACEMENT
 WATER PLAN & PROFILE
 STA 17+00 TO STA 21+00**

DATE: 05/2024
 DRAWN: MM
 CHECKED: JMF
 JOB NO.: 95SAM020100

SHEET
6
 OF
22

CUSTOMER METER INFORMATION

M#	TAX LOT #	CUSTOMER	ADDRESS	METER #	COMMENT
(NO SERVICES ON THIS SHEET)					

GENERAL NOTES

- SEE SHEET 2 FOR GENERAL WATER NOTES.
- ALL WORK AND MATERIALS TO BE IN CONFORMANCE WITH SAMMAMISH PLATEAU WATER AND SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
- PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING WATER MAINS TO DETERMINE HORIZONTAL LOCATIONS AND NOTIFY ENGINEER IF LOCATIONS ARE DIFFERENT THAN SHOWN ON THE PLANS.
- PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING UTILITIES AT ALL PROPOSED WATER MAIN CROSSINGS TO DETERMINE HORIZONTAL AND VERTICAL LOCATIONS AND CONSULT ENGINEER IF CONFLICTS ARE IDENTIFIED.
- WATER MAIN SHALL BE INSTALLED AT THE DEPTH AND SLOPE PER THE PROFILE DRAWINGS IN ORDER TO AVOID INTERMEDIATE HIGH SPOTS. WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF 3'-FEET OF COVER UNLESS NOTED OTHERWISE.
- CROSSING INFORMATION SHOWN WHERE VERTICAL SEPARATION IS < 4'.
- ALL DEFLECTIONS FOR DUCTILE IRON WATER MAIN PIPE SHALL BE LESS THAN HALF THE MANUFACTURERS SPECIFIED MAXIMUM DEFLECTION.
- NOT ALL REMOVALS/ABANDONMENT OF EXISTING WATER MAIN PIPE ARE SHOWN FOR CLARITY.
- CONTRACTOR SHALL STAKE FIRE HYDRANT ASSEMBLY LOCATIONS AND FLANGE ELEVATIONS FOR SPWSD AND CITY OF SAMMAMISH APPROVAL PRIOR TO CONSTRUCTION OF FIRE HYDRANT ASSEMBLIES.

CONSTRUCTION NOTES

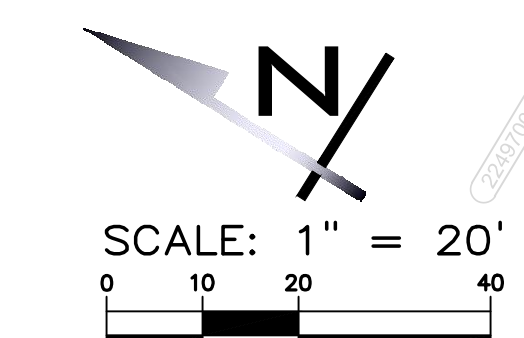
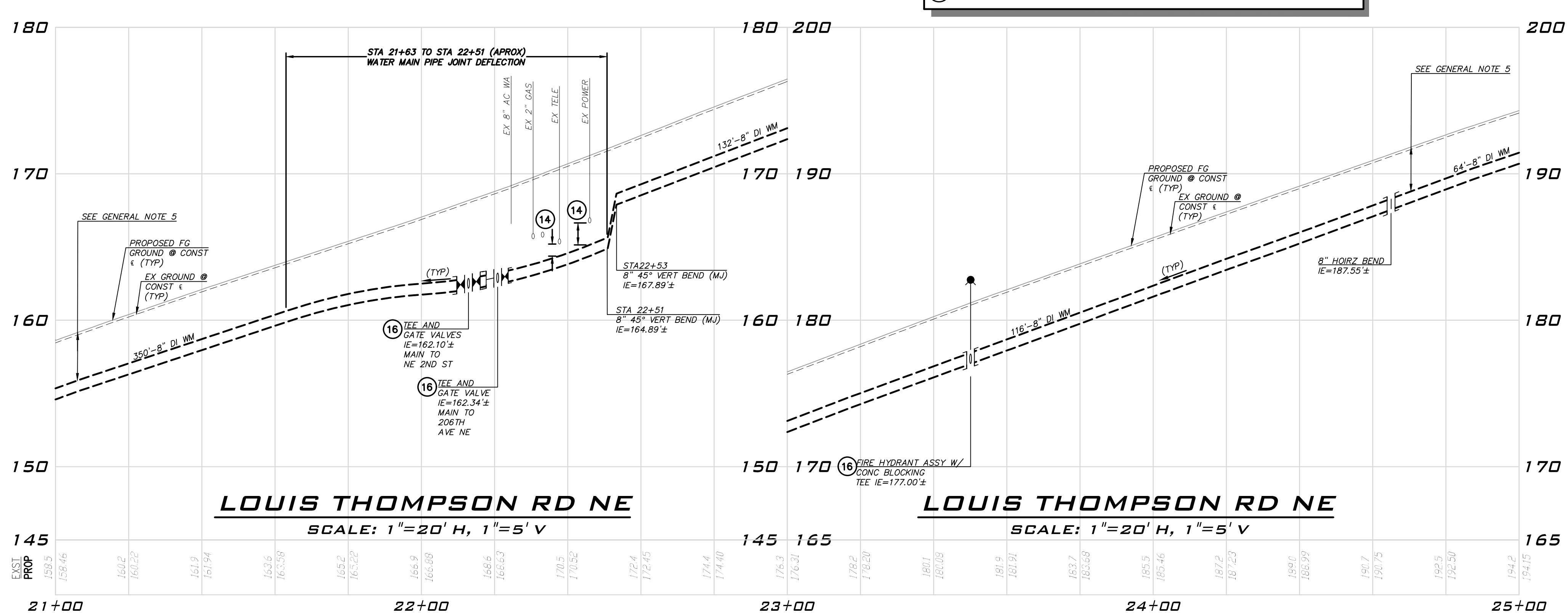
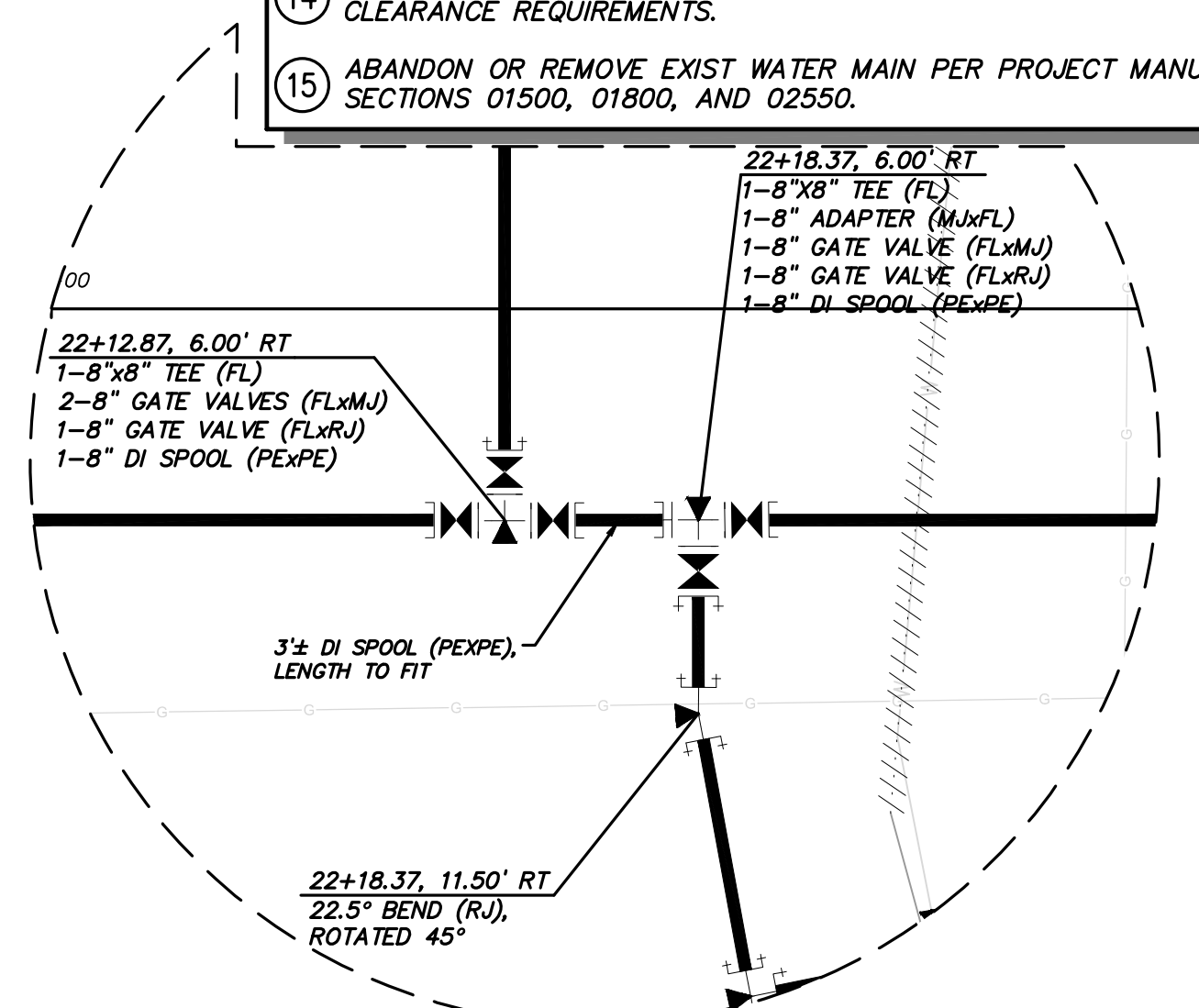
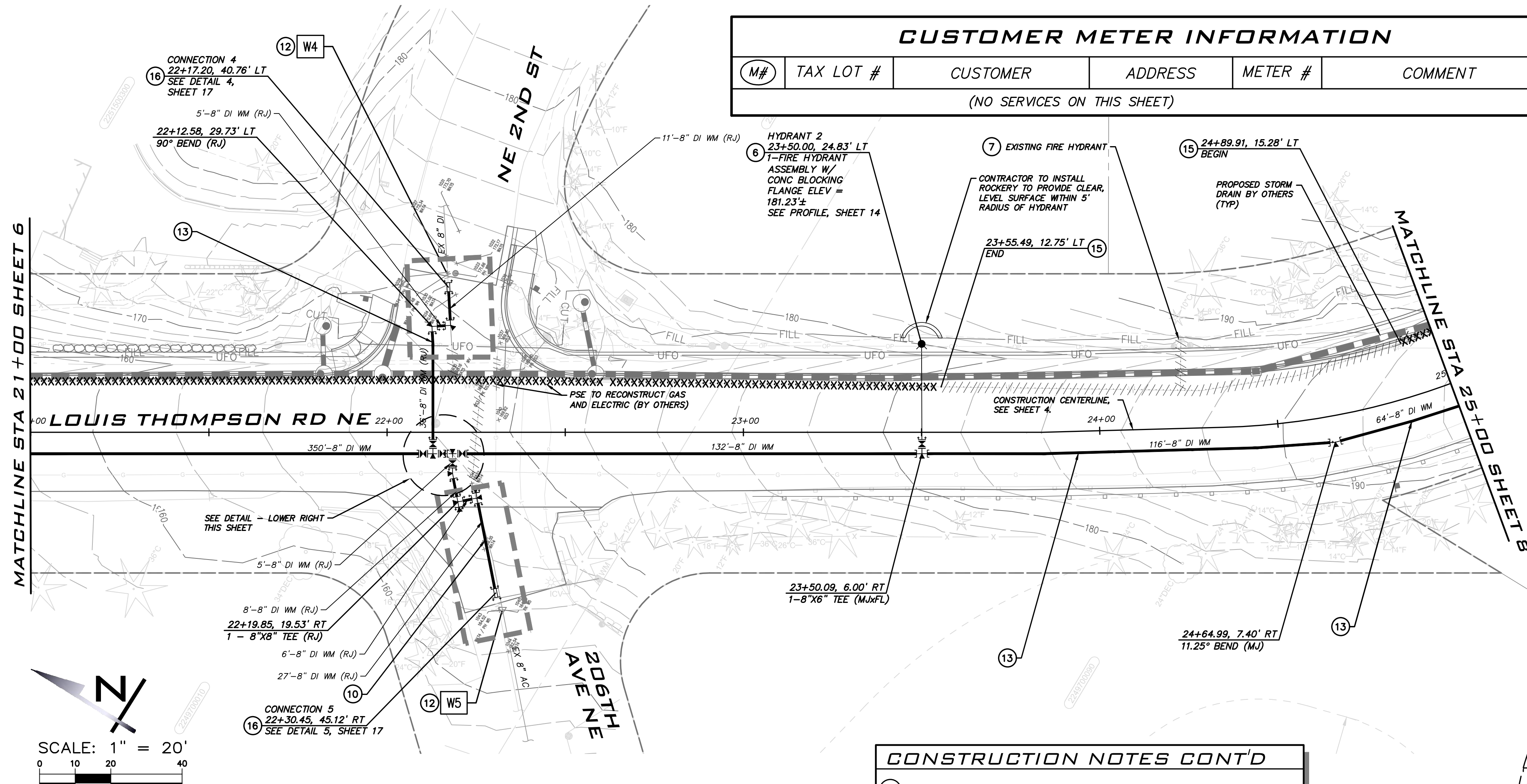
- CONSTRUCT FIRE HYDRANT ASSEMBLY PER SPWSD STDS.
- REMOVE EXISTING FIRE HYDRANT ASSEMBLY AND ABANDON WATER MAIN PER SPWSD STDS.
- POTHOLE UTILITY PRIOR TO CONSTRUCTING WATER MAIN, NOTIFY ENGINEER OF ANY CONFLICTS.
- POTHOLE, REFER TO EXISTING LEGEND, SHEET 3, AND APPENDIX H OF THE CONTRACT PROVISIONS FOR POTHOLE DATA.
- DEFLECT WATER MAIN ALIGNMENT AS NECESSARY BETWEEN IDENTIFIED FITTINGS, SEE GENERAL NOTE 7.
- SEE WATER MAIN GENERAL NOTE 3, SHEET 2 FOR CROSSING UTILITY CLEARANCE REQUIREMENTS.
- ABANDON OR REMOVE EXIST WATER MAIN PER PROJECT MANUAL SECTIONS 01500, 01800, AND 02550.

CONSTRUCTION NOTES CONT'D

- FOR LATERAL MAIN AND HYDRANT PROFILES, SEE SHEETS 14-15, 19.

UNDERGROUND UTILITY NOTE

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LOUIS THOMPSON RD NE
SCALE: 1"=20' H, 1"=5' V

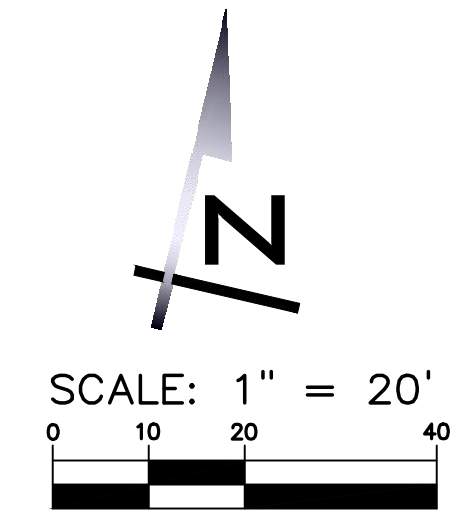


Samamish Plateau Water
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LOUIS THOMPSON RD NE
WATER MAIN REPLACEMENT
WATER MAIN PLAN & PROFILE
STA 21+00 TO STA 25+00

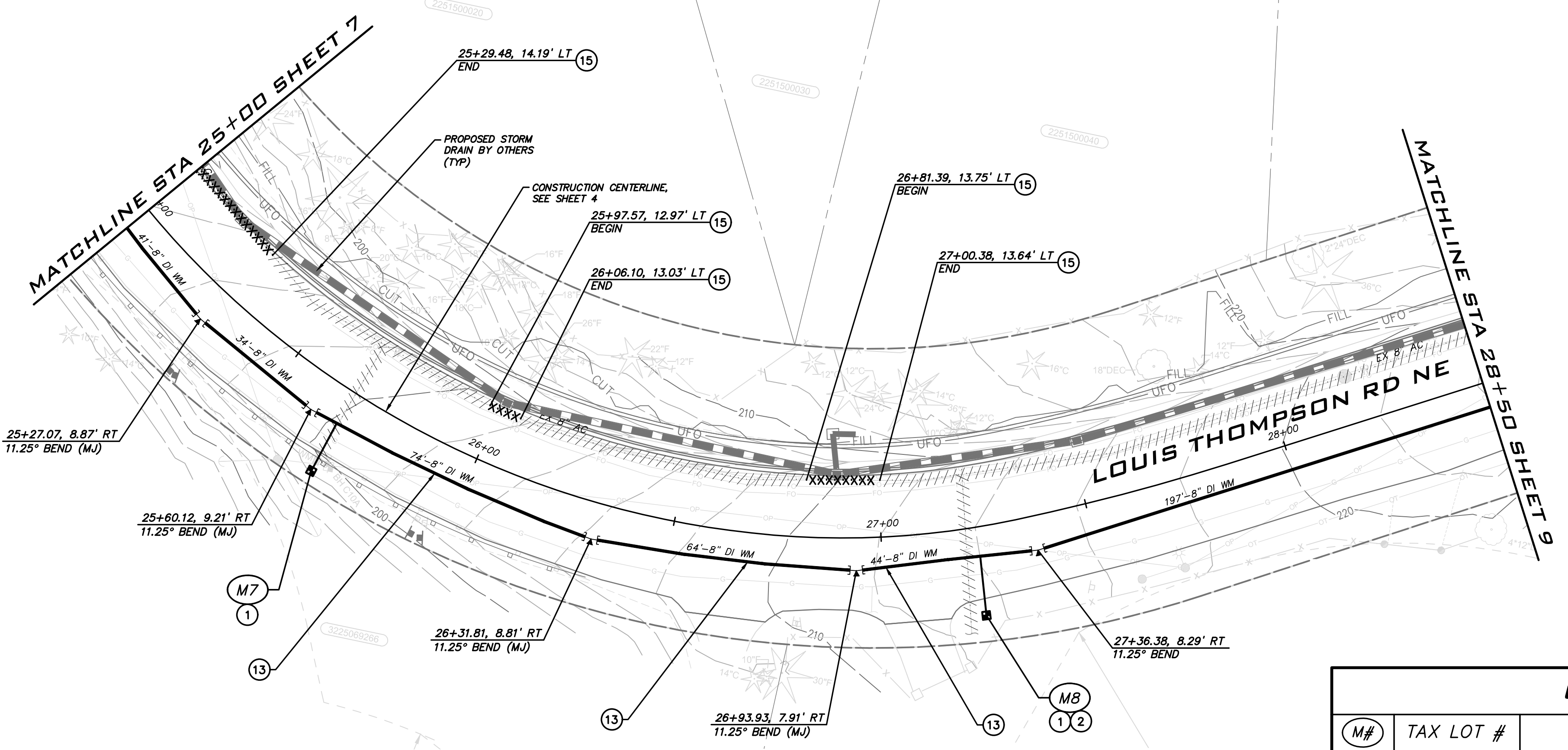
DATE: 05/2024
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 JOB NO.: 95AM020100

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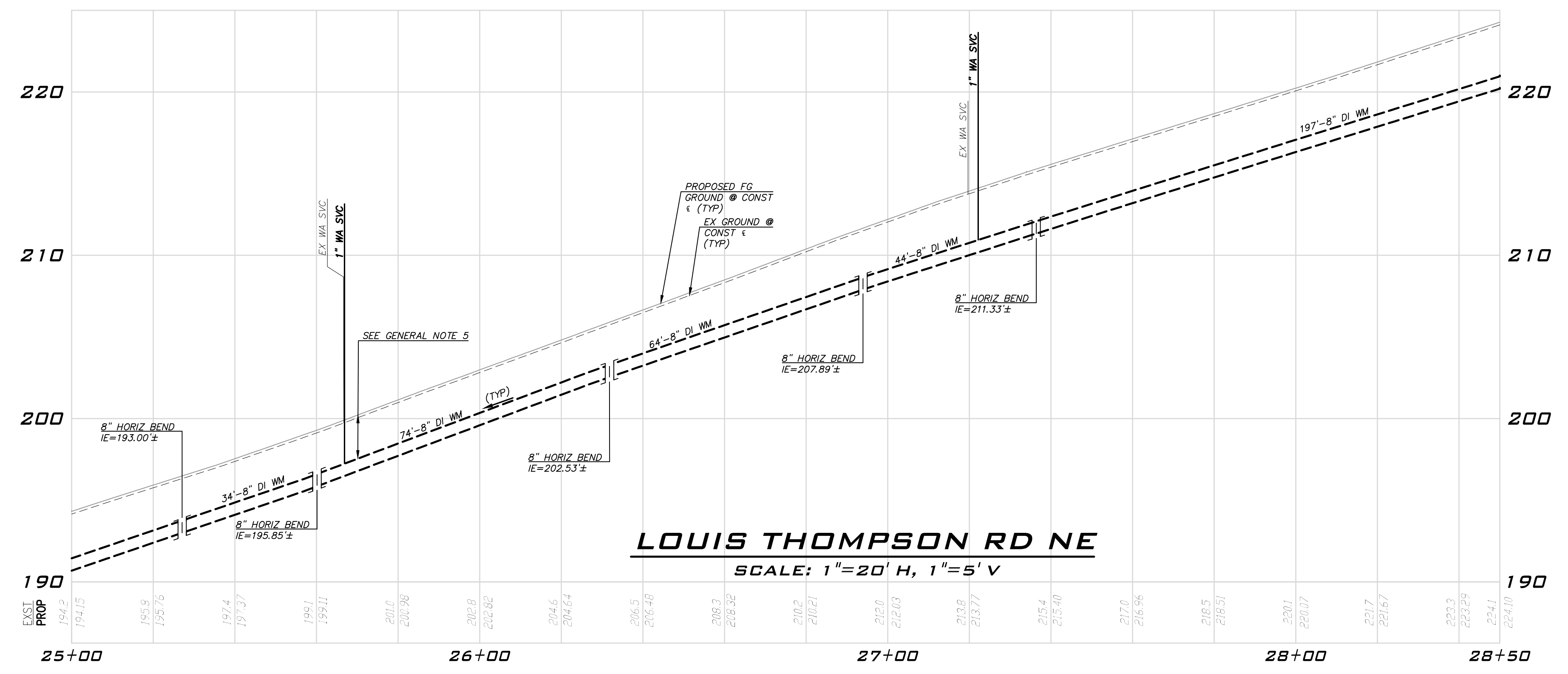
- GENERAL NOTES**
- SEE SHEET 2 FOR GENERAL WATER NOTES.
 - ALL WORK AND MATERIALS TO BE IN CONFORMANCE WITH SAMMAMISH PLATEAU WATER AND SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
 - PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING WATER MAINS TO DETERMINE HORIZONTAL LOCATIONS AND NOTIFY ENGINEER IF LOCATIONS ARE DIFFERENT THAN SHOWN ON THE PLANS.
 - PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING UTILITIES AT ALL PROPOSED WATER MAIN CROSSINGS TO DETERMINE HORIZONTAL AND VERTICAL LOCATIONS AND CONSULT ENGINEER IF CONFLICTS ARE IDENTIFIED.
 - WATER MAIN SHALL BE INSTALLED AT THE DEPTH AND SLOPE PER THE PROFILE DRAWINGS IN ORDER TO AVOID INTERMEDIATE HIGH SPOTS. WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF 3- FEET OF COVER UNLESS NOTED OTHERWISE.
 - CROSSING INFORMATION SHOWN WHERE VERTICAL SEPARATION IS < 4'.
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 - NOT ALL REMOVALS/ABANDONMENT OF EXISTING WATER MAIN PIPE ARE SHOWN FOR CLARITY.
 - CONTRACTOR SHALL STAKE FIRE HYDRANT ASSEMBLY LOCATIONS AND FLANGE ELEVATIONS FOR SPWSD AND CITY OF SAMMAMISH APPROVAL PRIOR TO CONSTRUCTION OF FIRE HYDRANT ASSEMBLIES.

- CONSTRUCTION NOTES**
- INSTALL 1" WATER SERVICE LINE WITH SINGLE 1" METER SETTER WITH A24 3/4" BRASS METER ADAPTERS.
 - INSTALL TRAFFIC BEARING METER BOX LID PER SPWSD STDS.
 - DEFLECT WATER MAIN ALIGNMENT AS NECESSARY BETWEEN IDENTIFIED FITTINGS, SEE GENERAL NOTE 7.
 - ABANDON OR REMOVE EXIST WATER MAIN PER PROJECT MANUAL SECTIONS 01500, 01800, AND 02550.



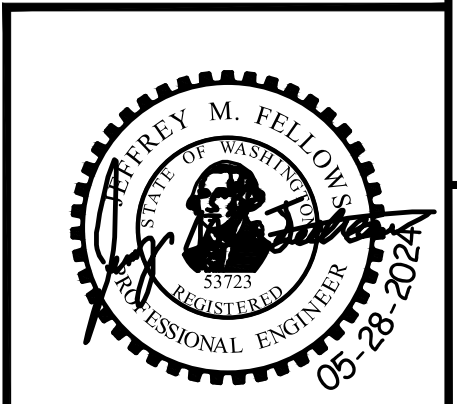
CUSTOMER METER INFORMATION

M#	TAX LOT #	CUSTOMER	ADDRESS	METER #	COMMENT
M7	322506-9266	ZARA LLEWELLYN	149 LOUIS THOMPSON RD NE	1690106423	WATER SERVICE TO BE REPLACED
M8	322506-9255	JOHNATHAN P TAYLOR	141 LOUIS THOMPSON RD NE	1800020613	WATER SERVICE TO BE REPLACED



UNDERGROUND UTILITY NOTE

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REVISIONS

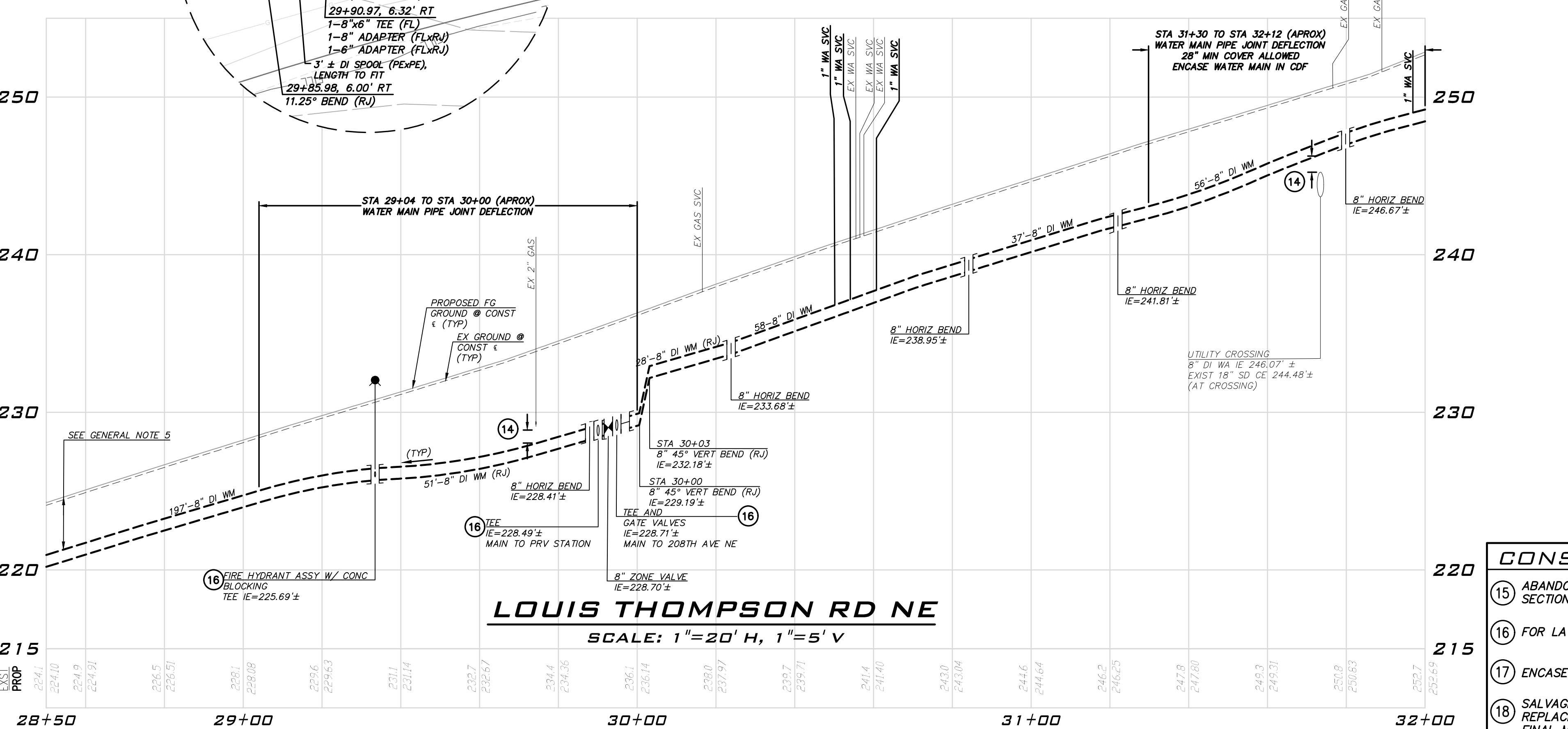
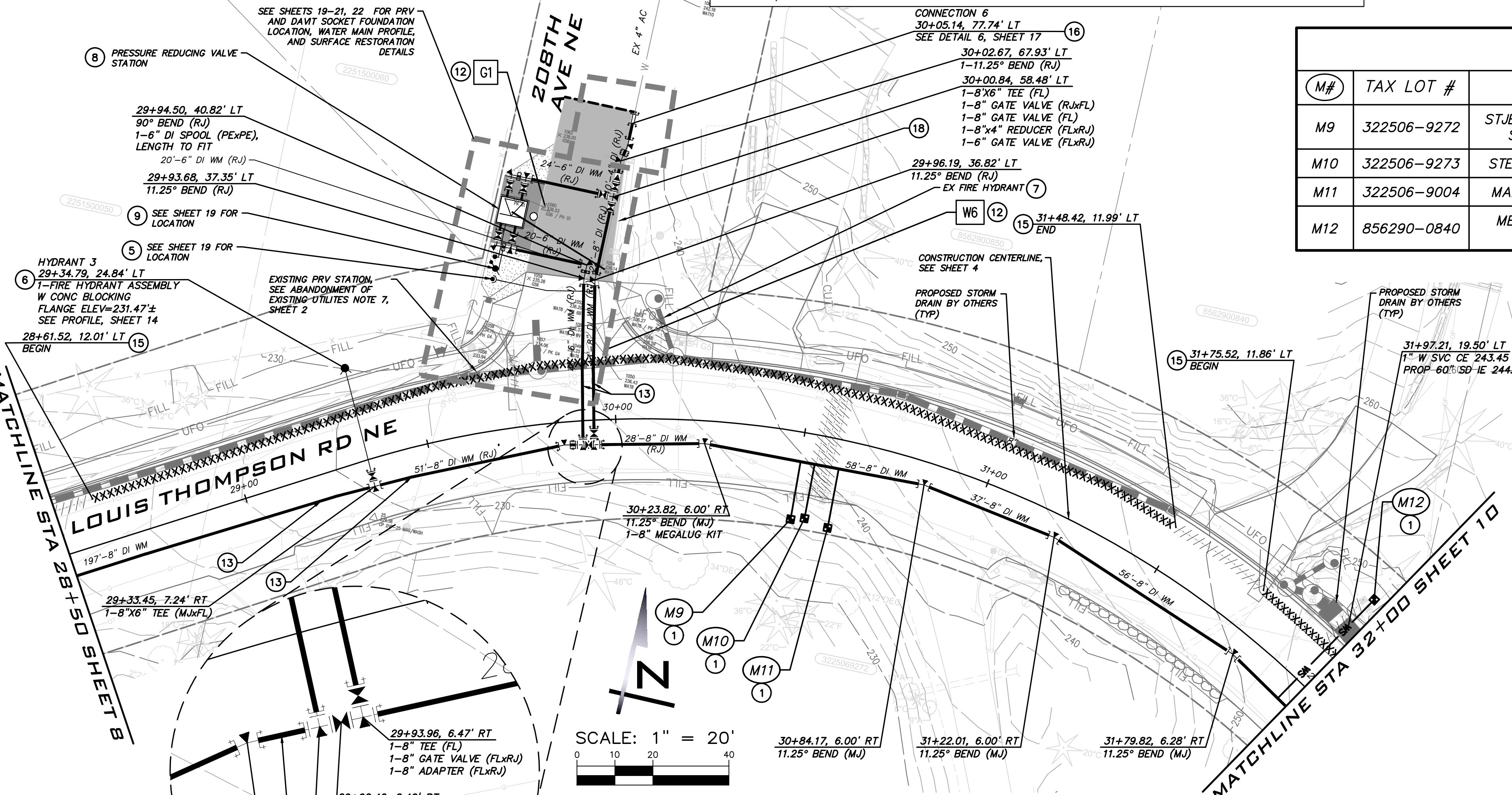
NO.	DATE	BY

Sammamish Plateau Water
 1510 228th Avenue SE, Sammamish, WA 98075
 425.392.6256 • spwater.org

**LOUIS THOMPSON RD NE
 WATER MAIN REPLACEMENT
 WATER PLAN & PROFILE
 STA 25+00 TO STA 28+50**

DATE: 05/2024
 DRAWN: MM
 CHECKED: JMF
 JOB NO.: 95SAM020100

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 22



LOUIS THOMPSON RD NE
SCALE: 1"=20' H, 1"=5' V

CUSTOMER METER INFORMATION					
M#	TAX LOT #	CUSTOMER	ADDRESS	METER #	COMMENT
M9	322506-9272	STJEPAN JOCIC SOLDO & SARA FITZPATRICK	119 LOUIS THOMPSON RD NE	1600008279	WATER SERVICE TO BE REPLACED
M10	322506-9273	STEPHEN & WAN JU WU	121 LOUIS THOMPSON RD NE	1690106400	WATER SERVICE TO BE REPLACED
M11	322506-9004	MAX & KELLY SCHMIDT	123 LOUIS THOMPSON RD NE	1690106401	WATER SERVICE TO BE REPLACED
M12	856290-0840	MERCEDES & MICHAEL AMMERLAAN	116 LOUIS THOMPSON RD NE	1800009053	WATER SERVICE TO BE REPLACED

- GENERAL NOTES**
- SEE SHEET 2 FOR GENERAL WATER NOTES.
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 - PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING WATER MAINS TO DETERMINE HORIZONTAL LOCATIONS AND NOTIFY ENGINEER IF LOCATIONS ARE DIFFERENT THAN SHOWN ON THE PLANS.
 - PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING UTILITIES AT ALL PROPOSED WATER MAIN CROSSINGS TO DETERMINE HORIZONTAL AND VERTICAL LOCATIONS AND CONSULT ENGINEER IF CONFLICTS ARE IDENTIFIED.
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 - CROSSING INFORMATION SHOWN WHERE VERTICAL SEPARATION IS < 4'.
 - ALL DEFLECTIONS FOR DUCTILE IRON WATER MAIN PIPE SHALL BE LESS THAN HALF THE MANUFACTURERS SPECIFIED MAXIMUM DEFLECTION.
 - NOT ALL REMOVALS/ABANDONMENT OF EXISTING WATER MAIN PIPE ARE SHOWN FOR CLARITY.
 - CONTRACTOR SHALL STAKE FIRE HYDRANT ASSEMBLY LOCATIONS AND FLANGE ELEVATIONS FOR SPWSD AND CITY OF SAMMAMISH APPROVAL PRIOR TO CONSTRUCTION OF FIRE HYDRANT ASSEMBLIES.

- CONSTRUCTION NOTES**
- INSTALL 1" WATER SERVICE LINE WITH SINGLE 1" METER SETTER WITH A24 3/4" BRASS METER ADAPTERS.
 - CONSTRUCT TYPE II BLOW OFF PER SPWSD STDS.
 - CONSTRUCT FIRE HYDRANT ASSEMBLY PER SPWSD STDS.
 - REMOVE EXISTING FIRE HYDRANT ASSEMBLY AND ABANDON WATER MAIN PER SPWSD STDS.
 - FURNISH AND CONSTRUCT STANDARD 6-INCH PRV VAULT ASSEMBLY AS SHOWN ON SHEETS 19-20.
 - CONSTRUCT 2" AIR-VAC ASSEMBLY PER SPWSD STDS.
 - POTHOLE, REFER TO EXISTING LEGEND, SHEET 3, AND APPENDIX H OF THE CONTRACT PROVISIONS FOR POTHOLE DATA.
 - DEFLECT WATER MAIN ALIGNMENT AS NECESSARY BETWEEN IDENTIFIED FITTINGS, SEE GENERAL NOTE 3, SHEET 2 FOR CROSSING UTILITY CLEARANCE REQUIREMENTS.
 - SEE WATER MAIN GENERAL NOTE 3, SHEET 2 FOR CROSSING UTILITY CLEARANCE REQUIREMENTS.

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- CONSTRUCTION NOTES CONT'D**
- ABANDON OR REMOVE EXIST WATER MAIN PER PROJECT MANUAL SECTIONS 01500, 01800, AND 02550.
 - FOR LATERAL MAIN AND HYDRANT PROFILES, SEE SHEETS 14-15, 19.
 - ENCASE WATER MAIN 5' EITHER SIDE OF UTILITY CROSSING IN CDF.
 - SALVAGE AND RELOCATE EXISTING MAILBOXES DURING CONSTRUCTION. REPLACE MAILBOXES IN KIND AFTER CONSTRUCTION. COORDINATE FINAL MAILBOX LOCATIONS WITH CITY.



DATE: 05/2024
DRAWN: MM
CHECKED: JMF
JOB NO.: 95540020100

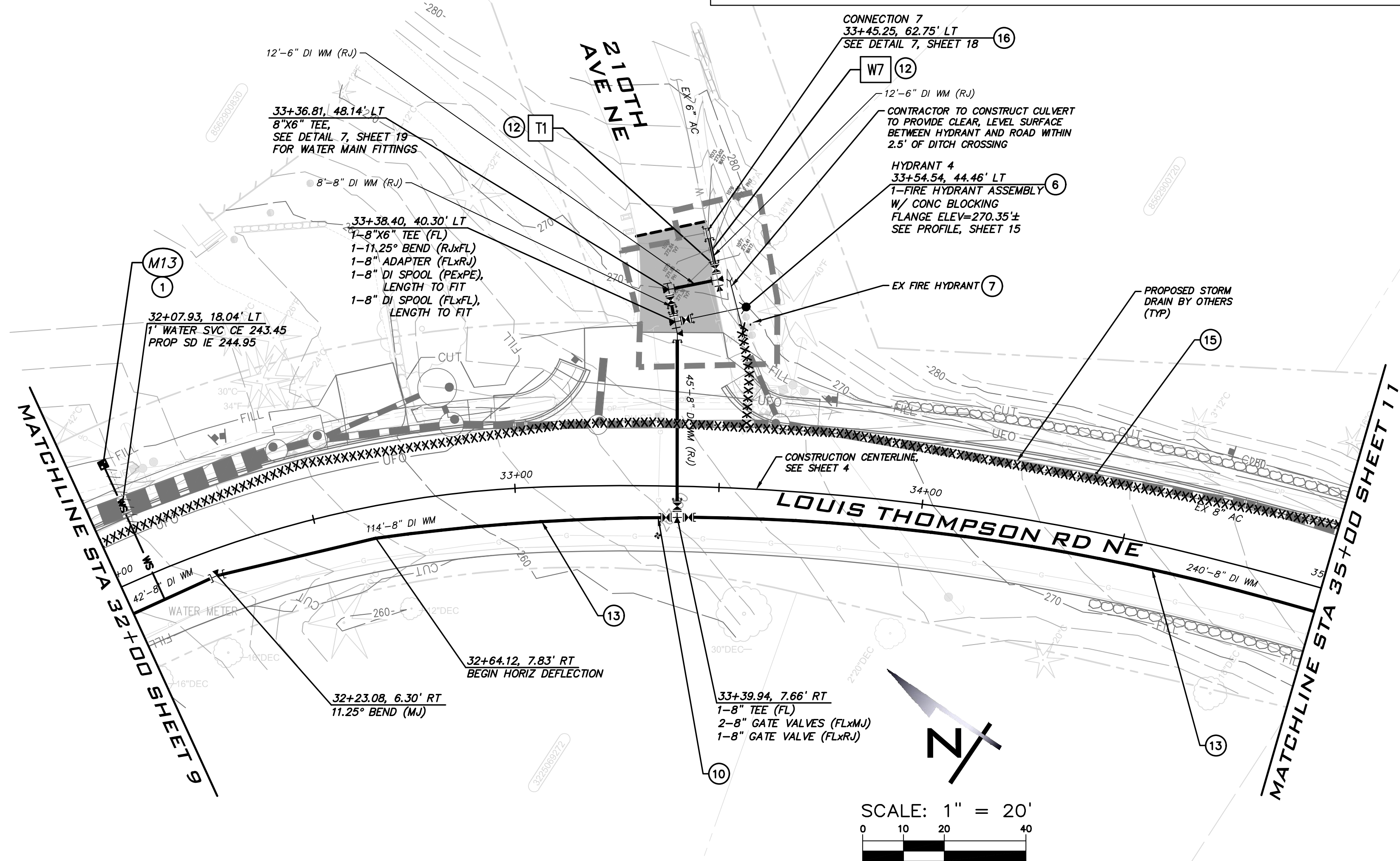
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**LOUIS THOMPSON RD NE
WATER MAIN REPLACEMENT
WATER PLAN & PROFILE
STA 28+50 TO STA 32+00**

REVISIONS

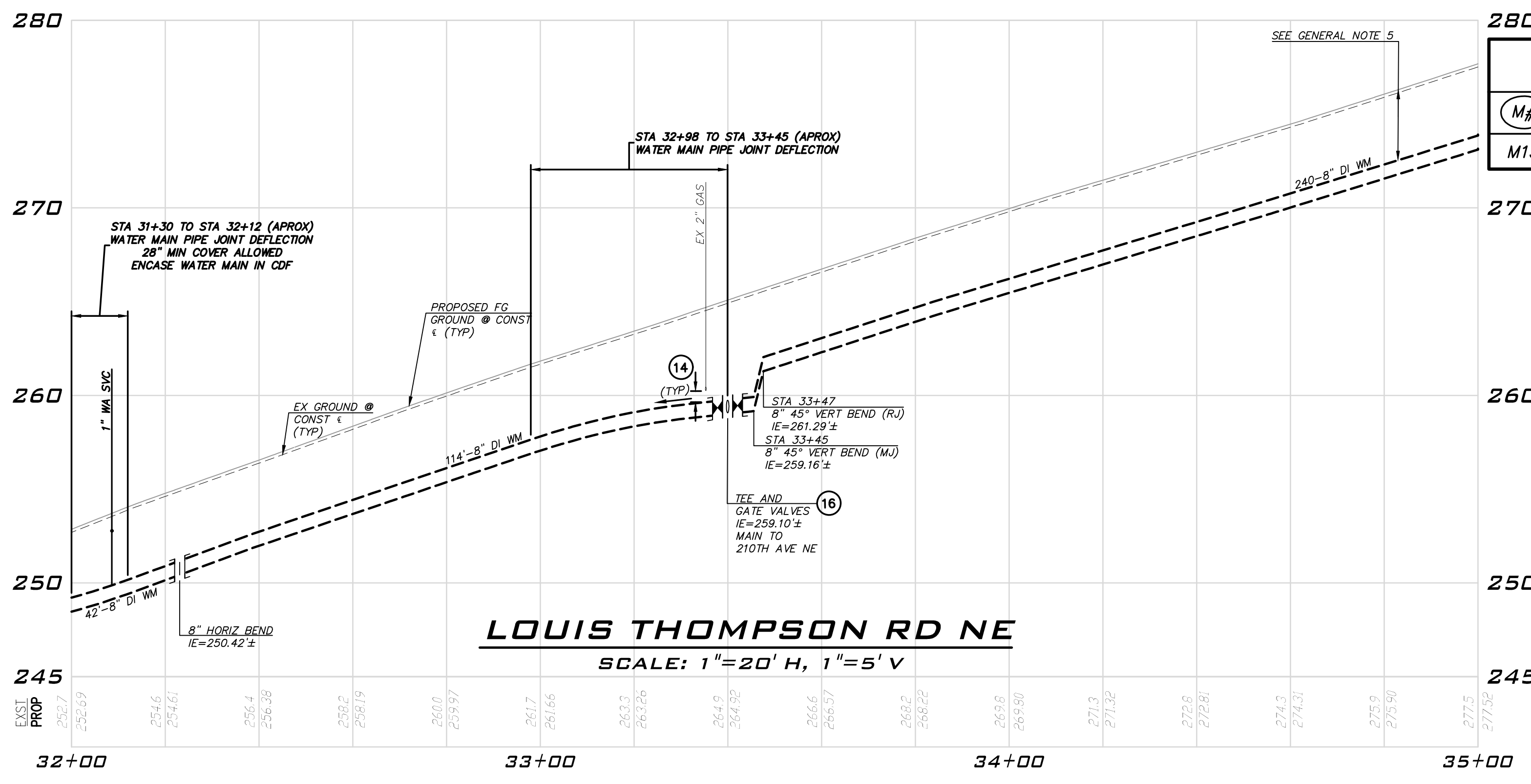
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- ### GENERAL NOTES
- SEE SHEET 2 FOR GENERAL WATER NOTES.
 - ALL WORK AND MATERIALS TO BE IN CONFORMANCE WITH SAMMAMISH PLATEAU WATER AND SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
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 - CONTRACTOR SHALL STAKE FIRE HYDRANT ASSEMBLY LOCATIONS AND FLANGE ELEVATIONS FOR SPWSD AND CITY OF SAMMAMISH APPROVAL PRIOR TO CONSTRUCTION OF FIRE HYDRANT ASSEMBLIES.

- ### CONSTRUCTION NOTES
- INSTALL 1" WATER SERVICE LINE WITH SINGLE 1" METER SETTER WITH A24 3/4" BRASS METER ADAPTERS.
 - CONSTRUCT FIRE HYDRANT ASSEMBLY PER SPWSD STDS.
 - REMOVE EXISTING FIRE HYDRANT ASSEMBLY AND ABANDON WATER MAIN PER SPWSD STDS.
 - POTHOLE UTILITY PRIOR TO CONSTRUCTING WATER MAIN, NOTIFY ENGINEER OF ANY CONFLICTS.
 - POTHOLE, REFER TO EXISTING LEGEND, SHEET 3, AND APPENDIX H OF THE CONTRACT PROVISIONS FOR POTHOLE DATA.
 - DEFLECT WATER MAIN ALIGNMENT AS NECESSARY BETWEEN IDENTIFIED FITTINGS, SEE GENERAL NOTE 7.
 - ABANDON OR REMOVE EXIST WATER MAIN PER PROJECT MANUAL SECTIONS 01500, 01800, AND 02550.
 - FOR LATERAL MAIN AND HYDRANT PROFILES, SEE SHEETS 14-15, 19.

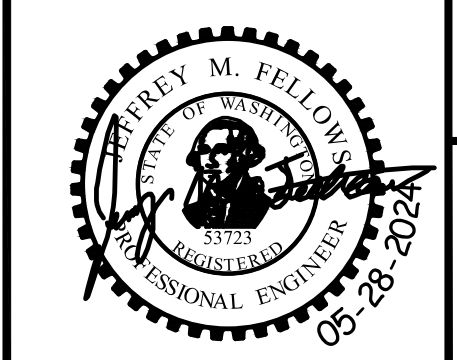


CUSTOMER METER INFORMATION

M#	TAX LOT #	CUSTOMER	ADDRESS	METER #	COMMENT
M13	856290-0830	TYRONNE JOHNSON	108 LOUIS THOMPSON RD NE	1690106399	WATER SERVICE TO BE REPLACED

UNDERGROUND UTILITY NOTE

UNDERGROUND 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.

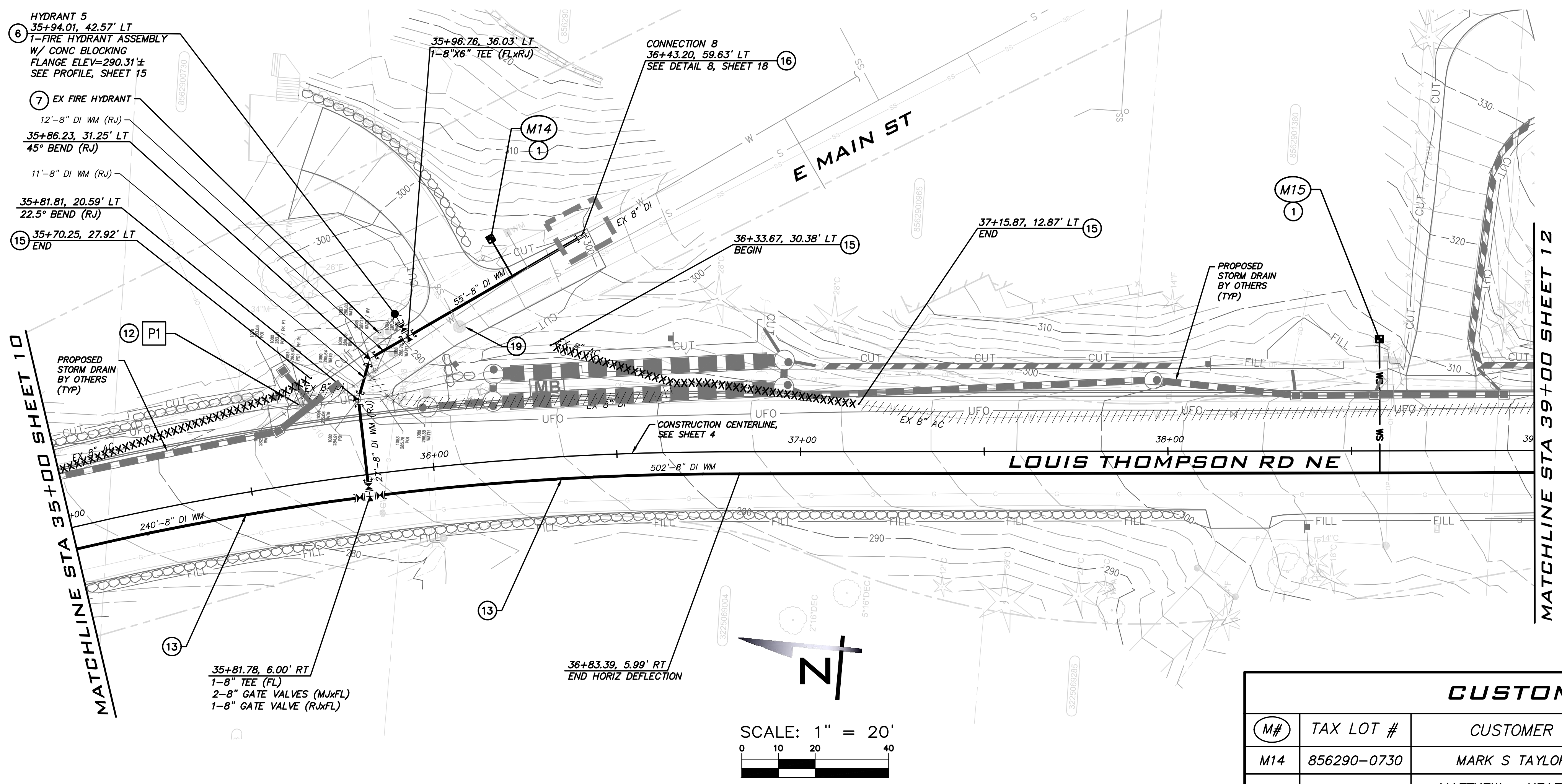


DATE: 05/20/24
 DRAWN: MM
 CHECKED: JMF
 JOB NO.: 9554020100

Sammamish Plateau Water
 1510 228th Avenue SE, Sammamish, WA 98075
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LOUIS THOMPSON RD NE
 WATER MAIN REPLACEMENT
 WATER PLAN & PROFILE
 STA 32+00 TO STA 35+00

SHEET
10
 OF
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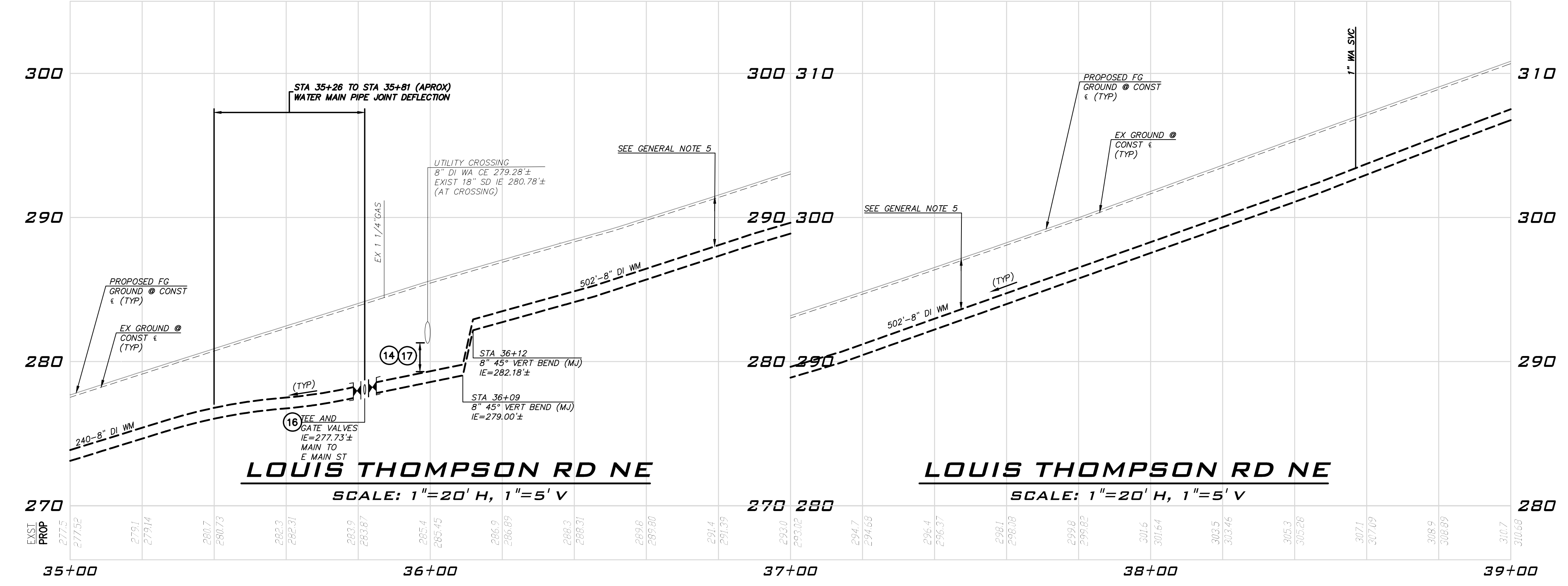


- ### GENERAL NOTES
- SEE SHEET 2 FOR GENERAL WATER NOTES.
 - ALL WORK AND MATERIALS TO BE IN CONFORMANCE WITH SAMMAMISH PLATEAU WATER AND SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
 - PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING WATER MAINS TO DETERMINE HORIZONTAL LOCATIONS AND NOTIFY ENGINEER IF LOCATIONS ARE DIFFERENT THAN SHOWN ON THE PLANS.
 - PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING UTILITIES AT ALL PROPOSED WATER MAIN CROSSINGS TO DETERMINE HORIZONTAL AND VERTICAL LOCATIONS AND CONSULT ENGINEER IF CONFLICTS ARE IDENTIFIED.
 - WATER MAIN SHALL BE INSTALLED AT THE DEPTH AND SLOPE PER THE PROFILE DRAWINGS IN ORDER TO AVOID INTERMEDIATE HIGH SPOTS. WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF 3- FEET OF COVER UNLESS NOTED OTHERWISE.
 - CROSSING INFORMATION SHOWN WHERE VERTICAL SEPARATION IS < 4'.
 - ALL DEFLECTIONS FOR DUCTILE IRON WATER MAIN PIPE SHALL BE LESS THAN HALF THE MANUFACTURERS SPECIFIED MAXIMUM DEFLECTION.
 - NOT ALL REMOVALS/ABANDONMENT OF EXISTING WATER MAIN PIPE ARE SHOWN FOR CLARITY.
 - CONTRACTOR SHALL STAKE FIRE HYDRANT ASSEMBLY LOCATIONS AND FLANGE ELEVATIONS FOR SPWSD AND CITY OF SAMMAMISH APPROVAL PRIOR TO CONSTRUCTION OF FIRE HYDRANT ASSEMBLIES.

- ### CONSTRUCTION NOTES
- INSTALL 1" WATER SERVICE LINE WITH SINGLE 1" METER SETTER WITH A24 3/4" BRASS METER ADAPTERS.
 - CONSTRUCT FIRE HYDRANT ASSEMBLY PER SPWSD STDS.
 - REMOVE EXISTING FIRE HYDRANT ASSEMBLY AND ABANDON WATER MAIN PER SPWSD STDS.
 - POTHOLE, REFER TO EXISTING LEGEND, SHEET 3, AND APPENDIX H OF THE CONTRACT PROVISIONS FOR POTHOLE DATA.
 - DEFLECT WATER MAIN ALIGNMENT AS NECESSARY BETWEEN IDENTIFIED FITTINGS, SEE GENERAL NOTE 7.

CUSTOMER METER INFORMATION

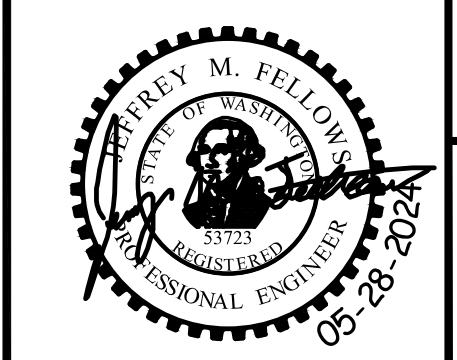
M#	TAX LOT #	CUSTOMER	ADDRESS	METER #	COMMENT
M14	856290-0730	MARK S TAYLOR	24 LOUIS THOMPSON RD NE	1690105700	WATER SERVICE TO BE REPLACED
M15	856290-1390	MATTHEW + HEATHER NEWTON	12 LOUIS THOMPSON RD NE	1600018864	WATER SERVICE TO BE REPLACED



- ### CONSTRUCTION NOTES CONT'D
- SEE WATER MAIN GENERAL NOTE 3, SHEET 2 FOR CROSSING UTILITY CLEARANCE REQUIREMENTS.
 - ABANDON OR REMOVE EXIST WATER MAIN PER PROJECT MANUAL SECTIONS 01500, 01800, AND 02550.
 - FOR LATERAL MAIN AND HYDRANT PROFILES, SEE SHEETS 14-15, 19.
 - ENCASE WATER MAIN 5' EITHER SIDE OF UTILITY CROSSING IN CDF.
 - ADJUST EXISTING CASTING TO FINISHED GRADE. SEE SHEET 4 FOR CASTINGS OUTSIDE DISTRICT PROJECT LIMITS.

UNDERGROUND UTILITY NOTE

UNDERGROUND 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.



DATE: 05/2024
 DRAWN: MM
 CHECKED: JMF
 JOB NO.: 95540020100

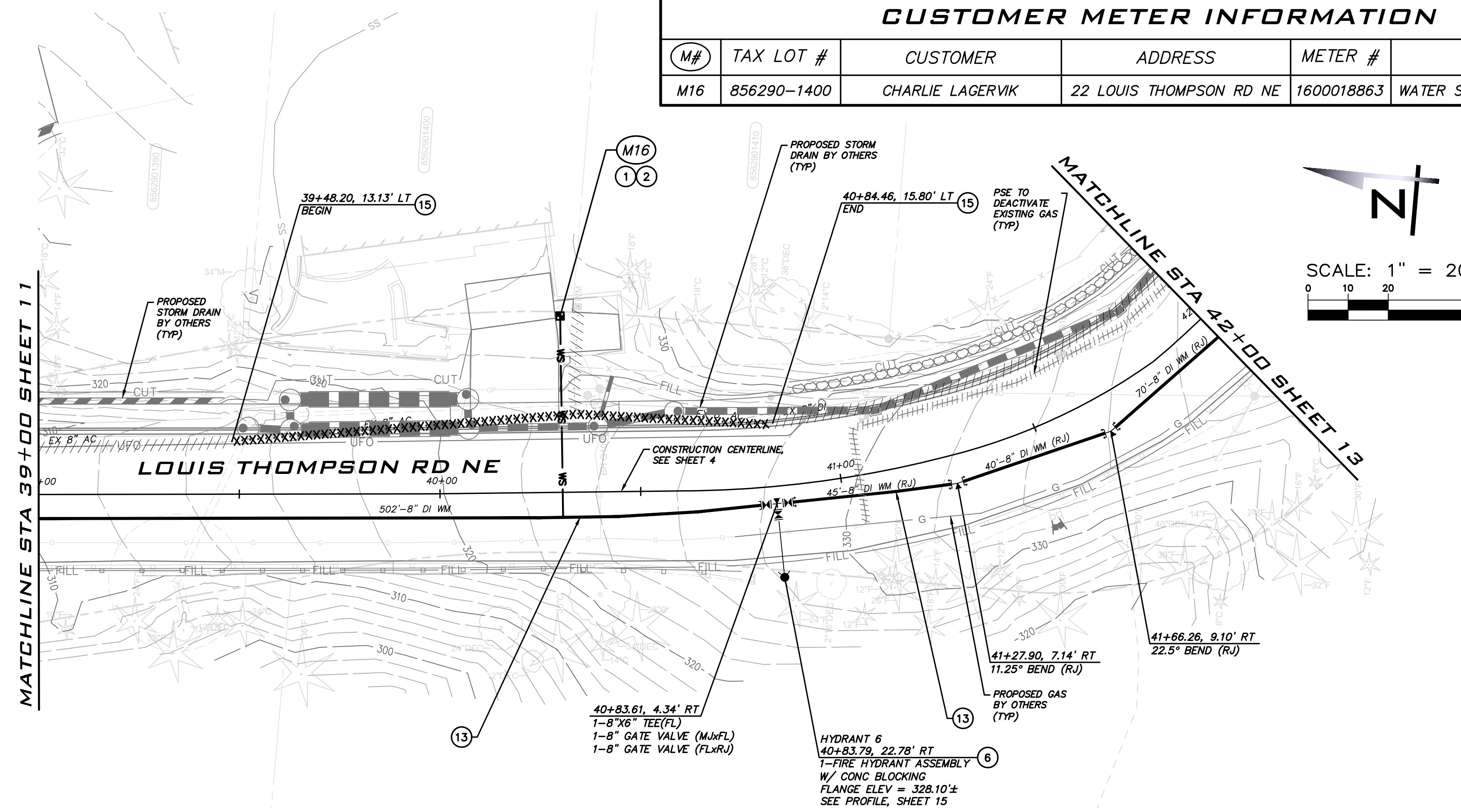
Sammamish Plateau Water
 1510 228th Avenue SE, Sammamish, WA 98075
 425.392.6256 • spwater.org

**LOUIS THOMPSON RD NE
 WATER MAIN REPLACEMENT
 WATER PLAN & PROFILE
 STA 35+00 TO STA 39+00**

SHEET
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22

CUSTOMER METER INFORMATION

M#	TAX LOT #	CUSTOMER	ADDRESS	METER #	COMMENT
M16	856290-1400	CHARLIE LAGERVIK	22 LOUIS THOMPSON RD NE	1600018863	WATER SERVICE TO BE REPLACED

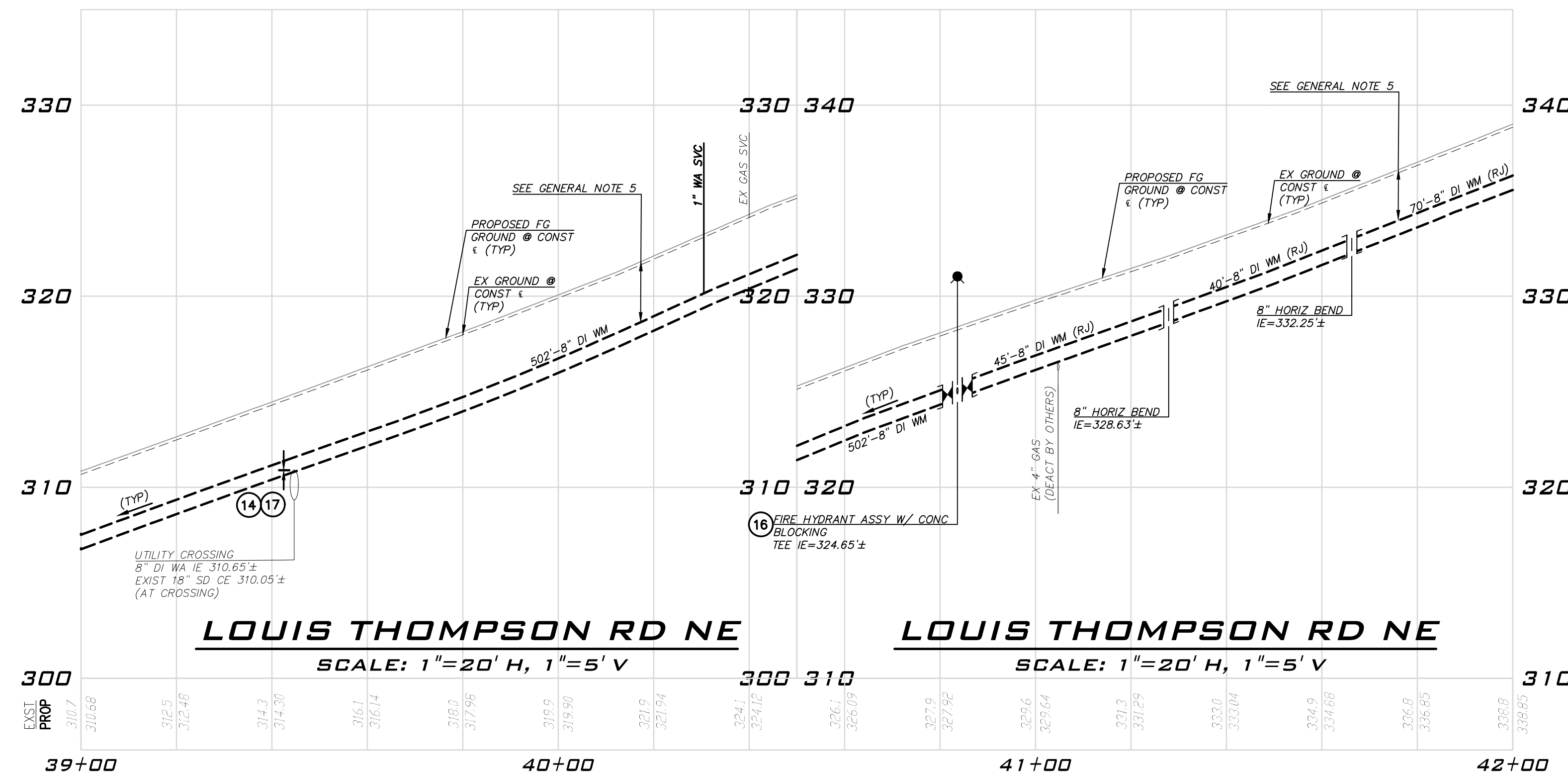


GENERAL NOTES

- SEE SHEET 2 FOR GENERAL WATER NOTES.
- ALL WORK AND MATERIALS TO BE IN CONFORMANCE WITH SAMMAMISH PLATEAU WATER AND SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
- PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE EXISTING WATER MAINS TO DETERMINE HORIZONTAL LOCATIONS AND NOTIFY ENGINEER IF LOCATIONS ARE DIFFERENT THAN SHOWN ON THE PLANS.
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- CROSSING INFORMATION SHOWN WHERE VERTICAL SEPARATION IS < 4'.
- ALL DEFLECTIONS FOR DUCTILE IRON WATER MAIN PIPE SHALL BE LESS THAN HALF THE MANUFACTURERS SPECIFIED MAXIMUM DEFLECTION.
- NOT ALL REMOVALS/ABANDONMENT OF EXISTING WATER MAIN PIPE ARE SHOWN FOR CLARITY.
- CONTRACTOR SHALL STAKE FIRE HYDRANT ASSEMBLY LOCATIONS AND FLANGE ELEVATIONS FOR SPUSD AND CITY OF SAMMAMISH APPROVAL PRIOR TO CONSTRUCTION OF FIRE HYDRANT ASSEMBLIES.

CONSTRUCTION NOTES

- INSTALL 1" WATER SERVICE LINE WITH SINGLE 1" METER SETTER WITH A24 3/4" BRASS METER ADAPTERS.
- INSTALL TRAFFIC BEARING METER BOX LID PER SPUSD STDS.
- CONSTRUCT FIRE HYDRANT ASSEMBLY PER SPUSD STDS.
- DEFLECT WATER MAIN ALIGNMENT AS NECESSARY BETWEEN IDENTIFIED FITTINGS, SEE GENERAL NOTE 7.
- SEE WATER MAIN GENERAL NOTE 3, SHEET 2 FOR CROSSING UTILITY CLEARANCE REQUIREMENTS.
- ABANDON OR REMOVE EXIST WATER MAIN PER PROJECT MANUAL SECTIONS 01500, 01800, AND 02550.
- FOR LATERAL MAIN AND HYDRANT PROFILES, SEE SHEETS 14-15, 19.
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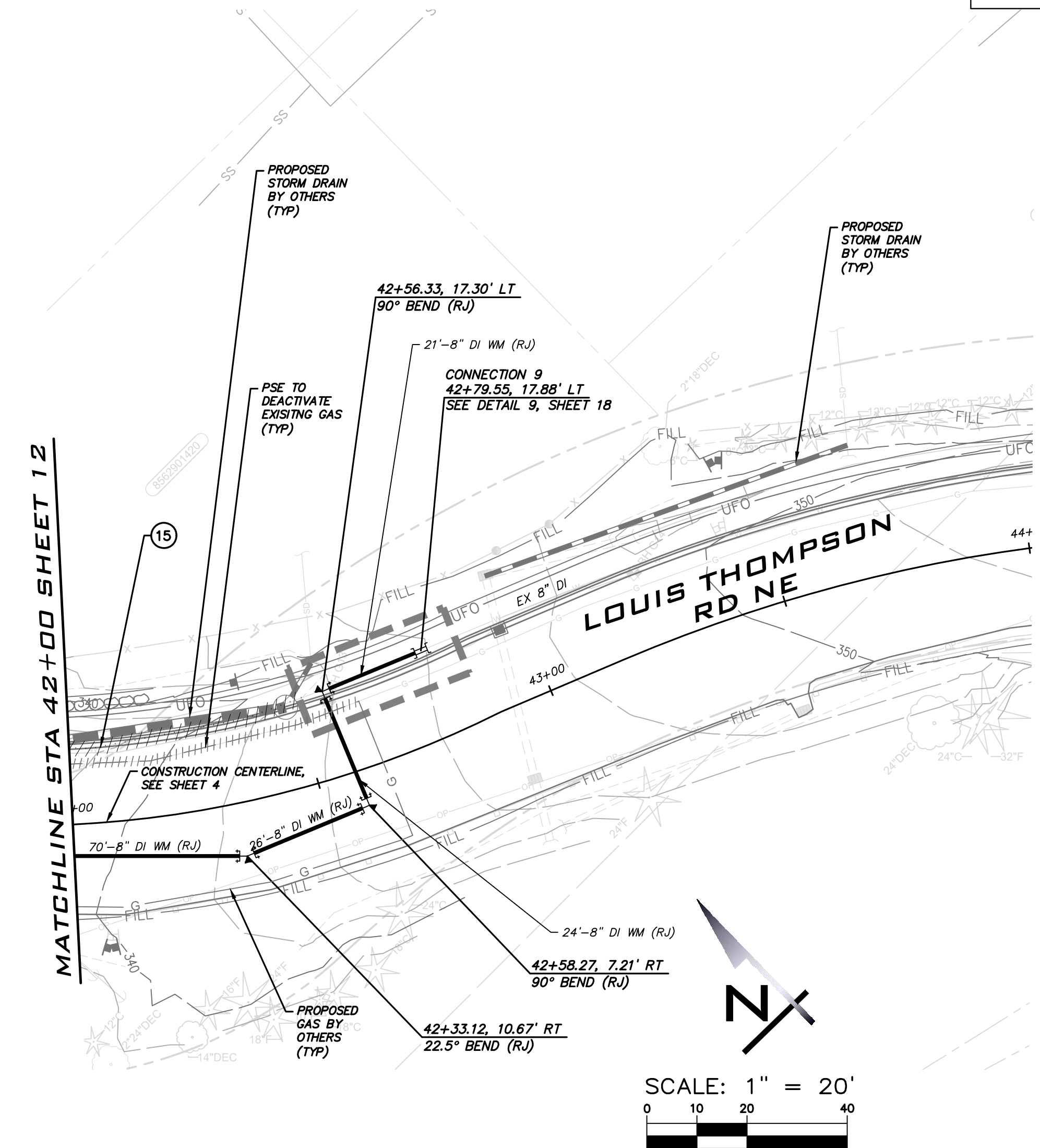
REVISIONS	BY	DATE

Sammamish Plateau Water
 1510 228th Avenue SE, Sammamish, WA 98075
 425.392.6256 • spwater.org

**LOUIS THOMPSON RD NE
 WATER MAIN REPLACEMENT
 WATER PLAN & PROFILE
 STA 39+00 TO STA 42+00**

DATE: 05/2024
 DRAWN: MM
 CHECKED: JMF
 JOB NO.: 95SAM020100

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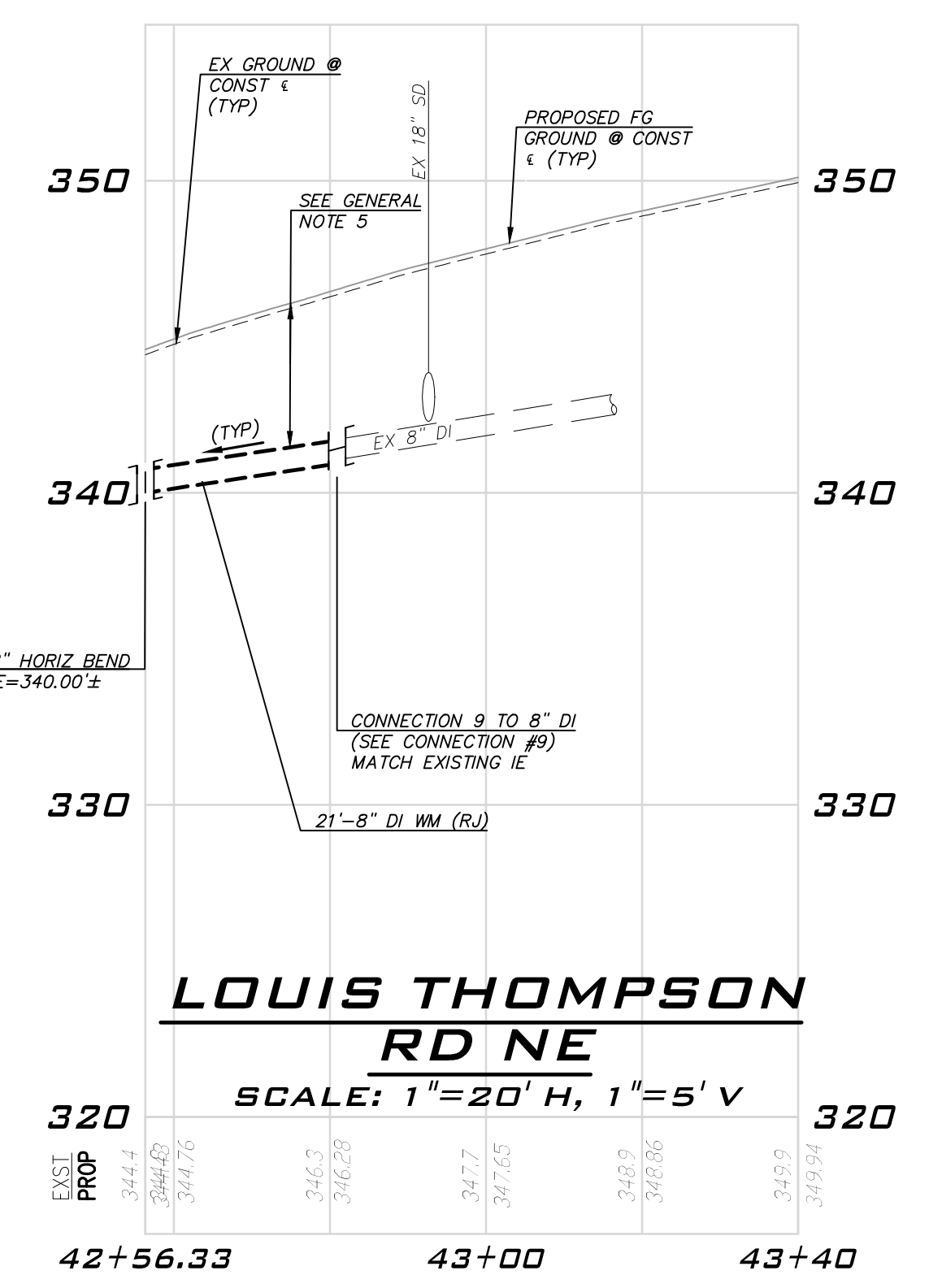
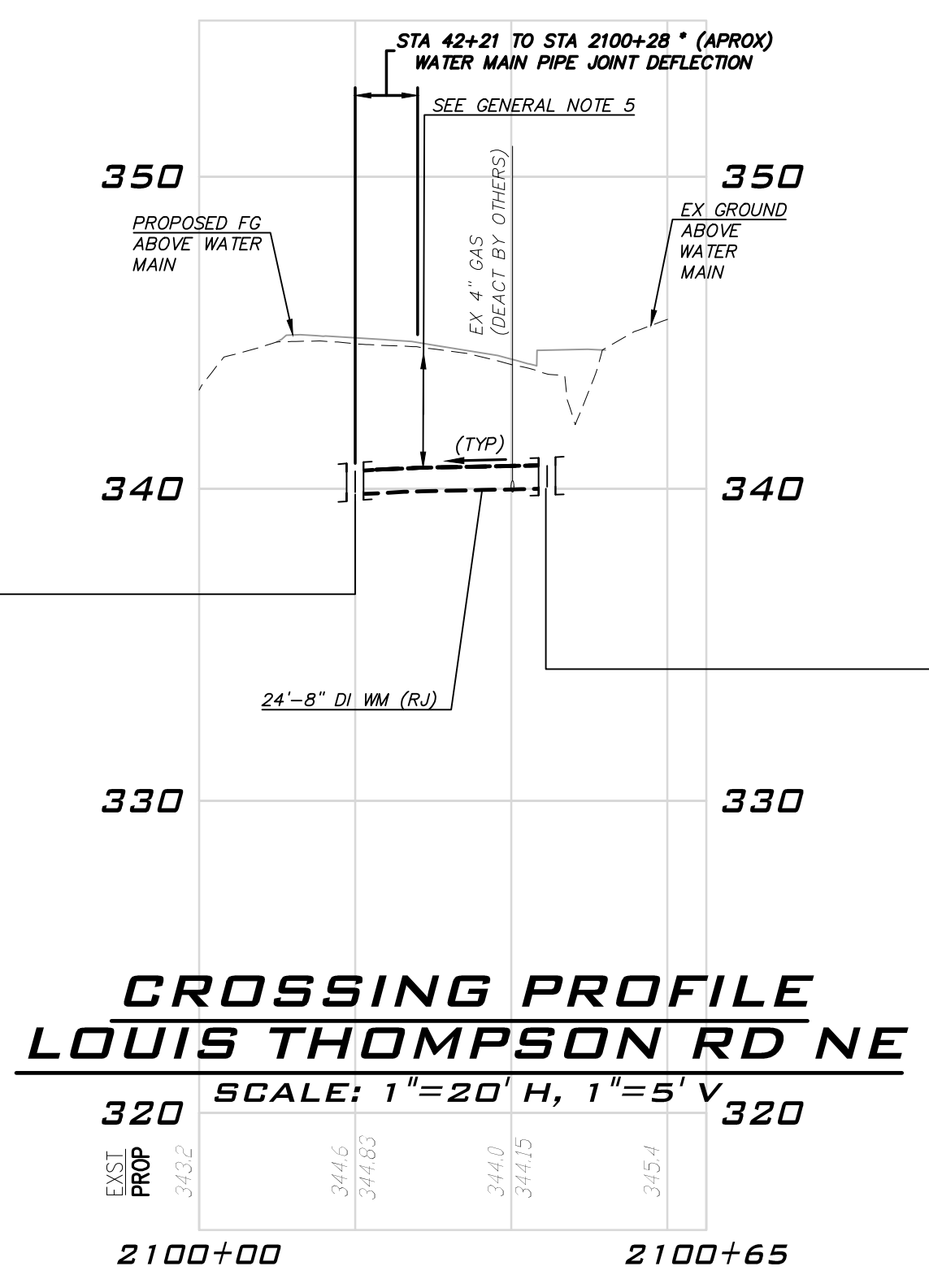
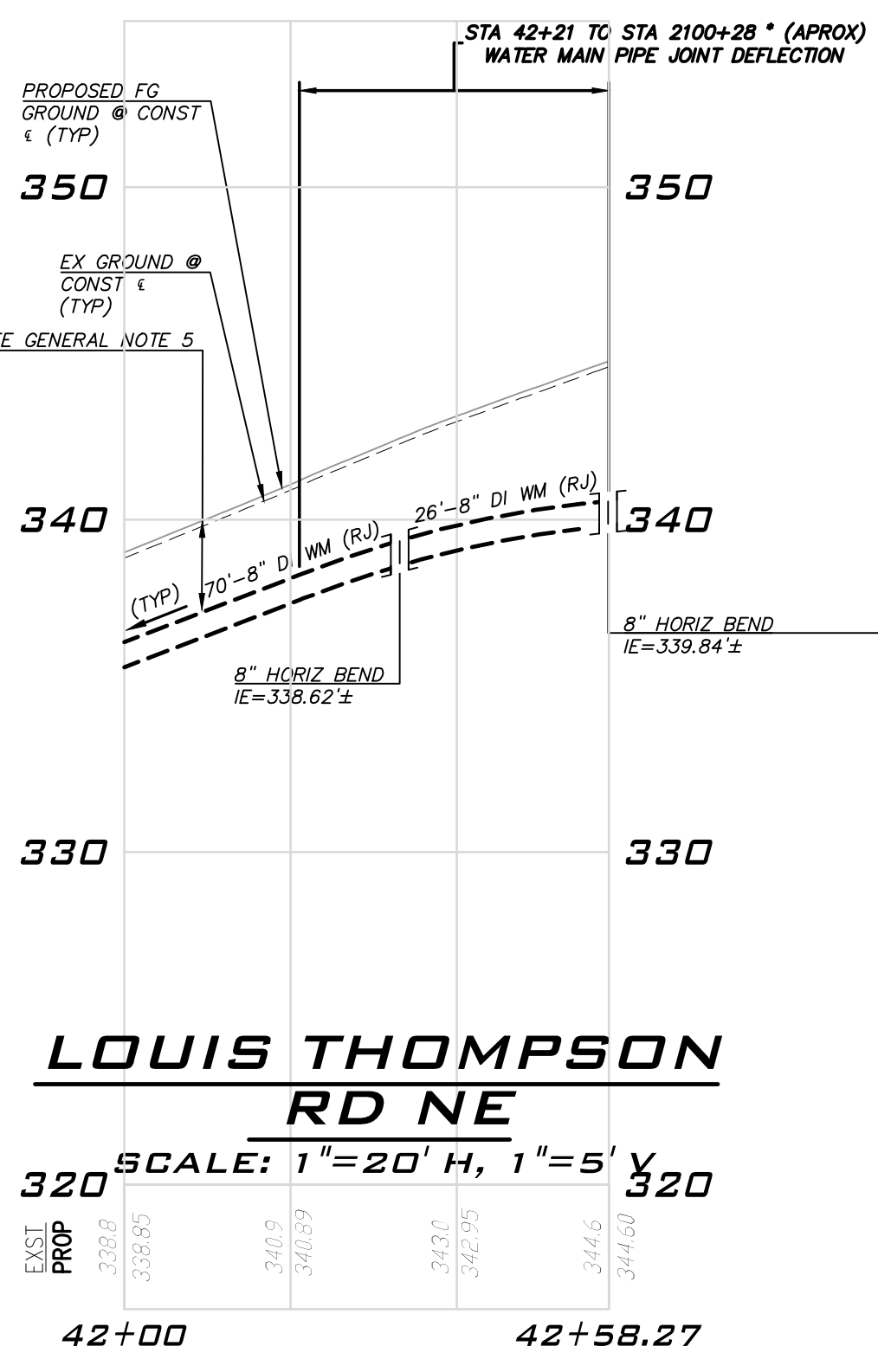


- GENERAL NOTES**
- SEE SHEET 2 FOR GENERAL WATER NOTES.
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- CONSTRUCTION NOTES**
- ABANDON OR REMOVE EXIST WATER MAIN PER PROJECT MANUAL SECTIONS 01500, 01800, AND 02550.

CUSTOMER METER INFORMATION

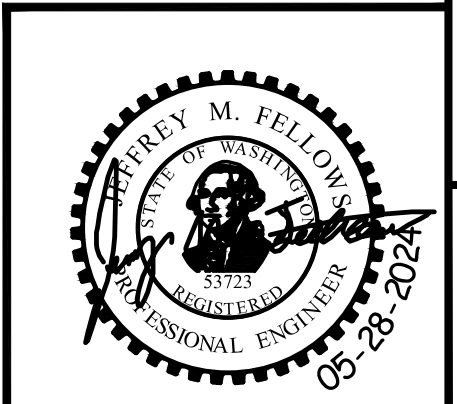
M#	TAX LOT #	CUSTOMER	ADDRESS	METER #	COMMENT
(NO SERVICES ON THIS SHEET)					



- PROFILE GENERAL NOTES**
- STATIONS SHOWN IN LTR CROSSING PROFILE VIEW ARE UNIQUE AND UNRELATED TO LTR STATIONS SHOWN ON SHEETS 5-13.

UNDERGROUND UTILITY NOTE

UNDERGROUND 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.

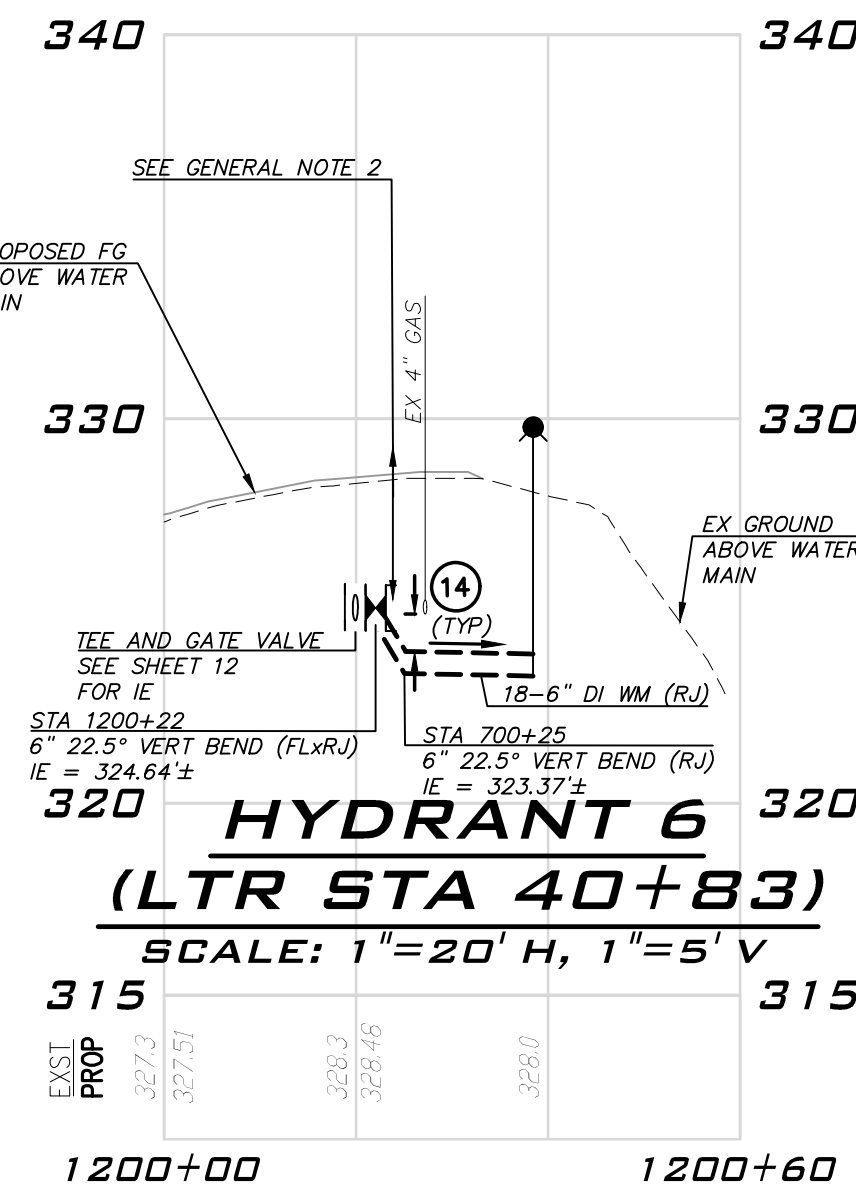
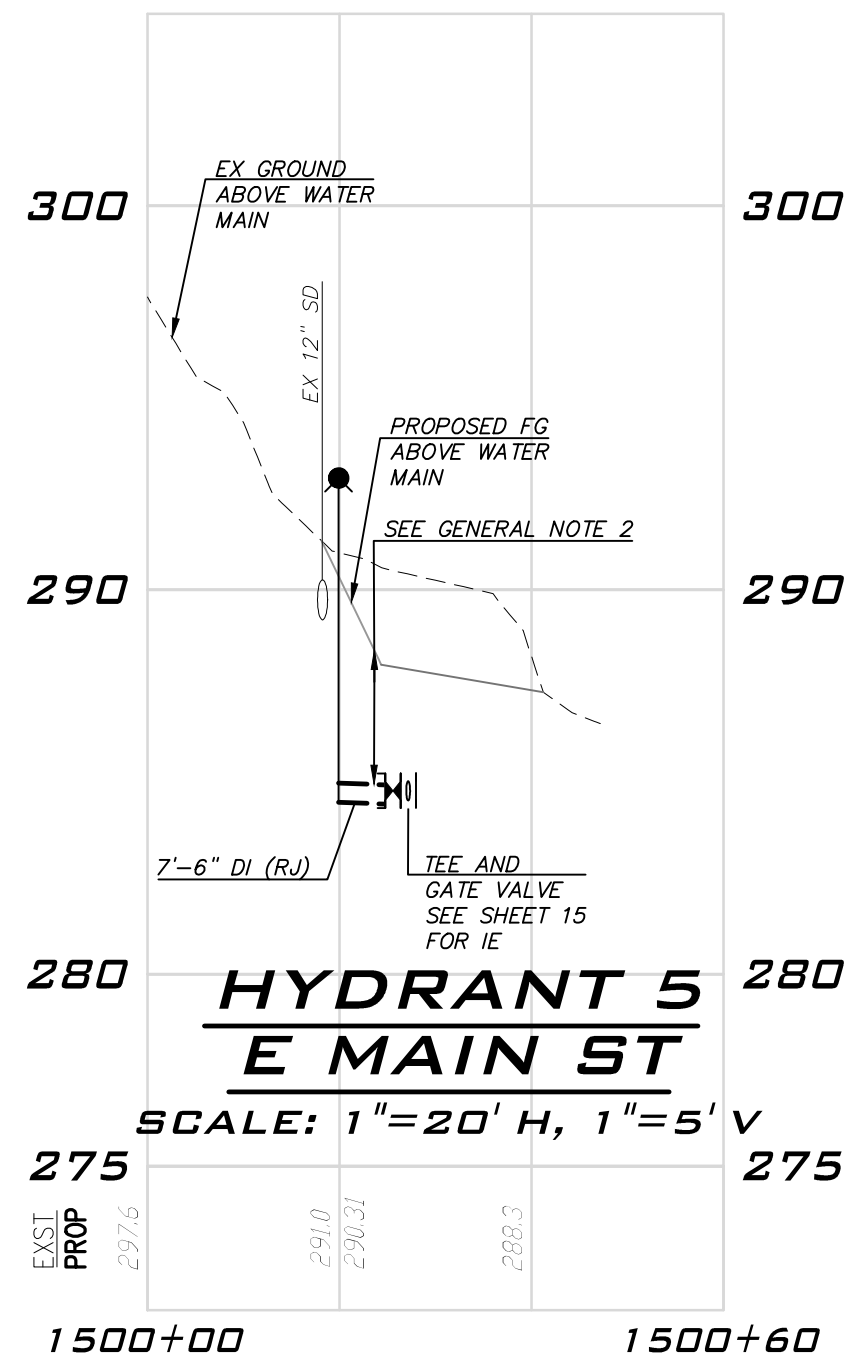
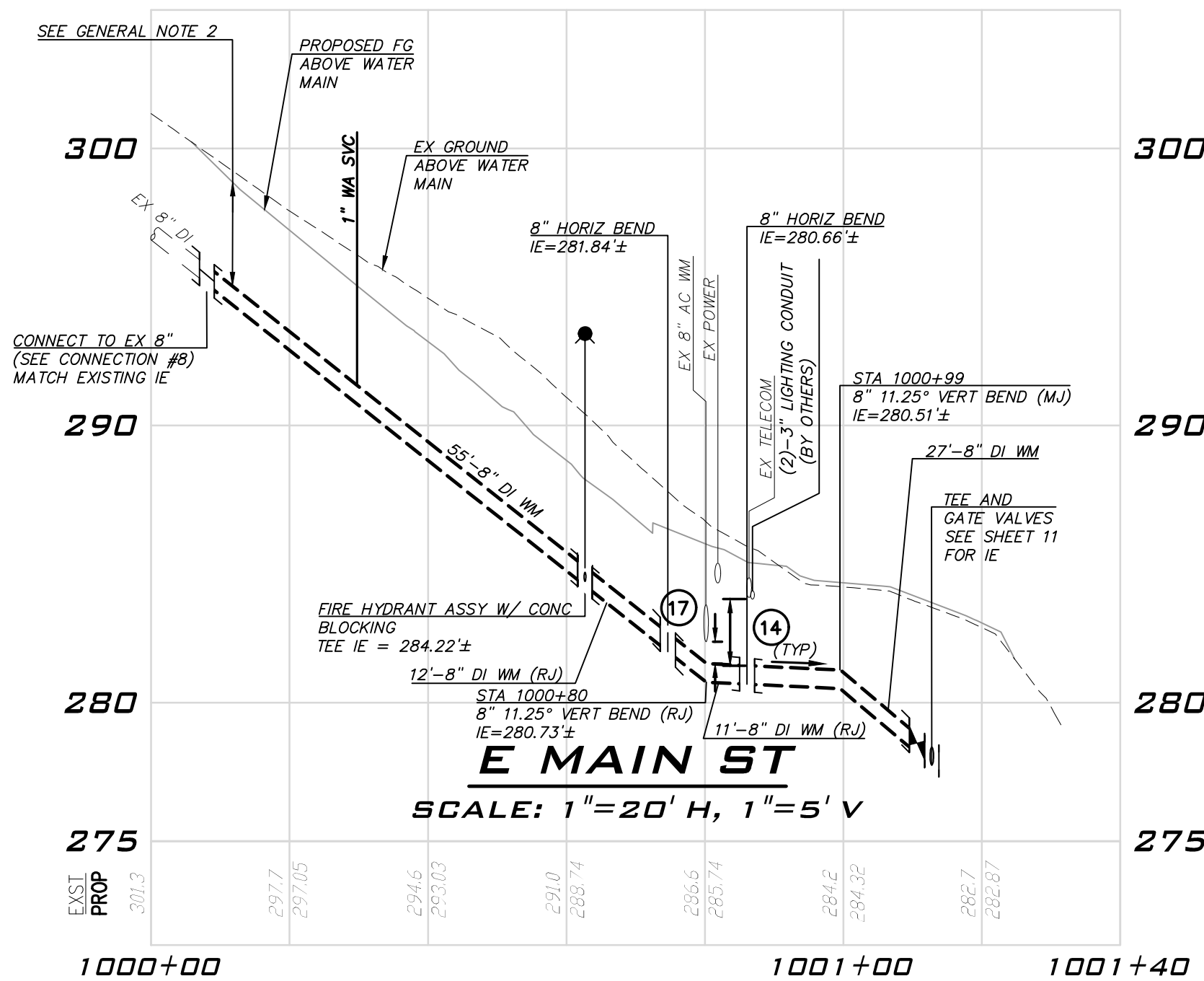
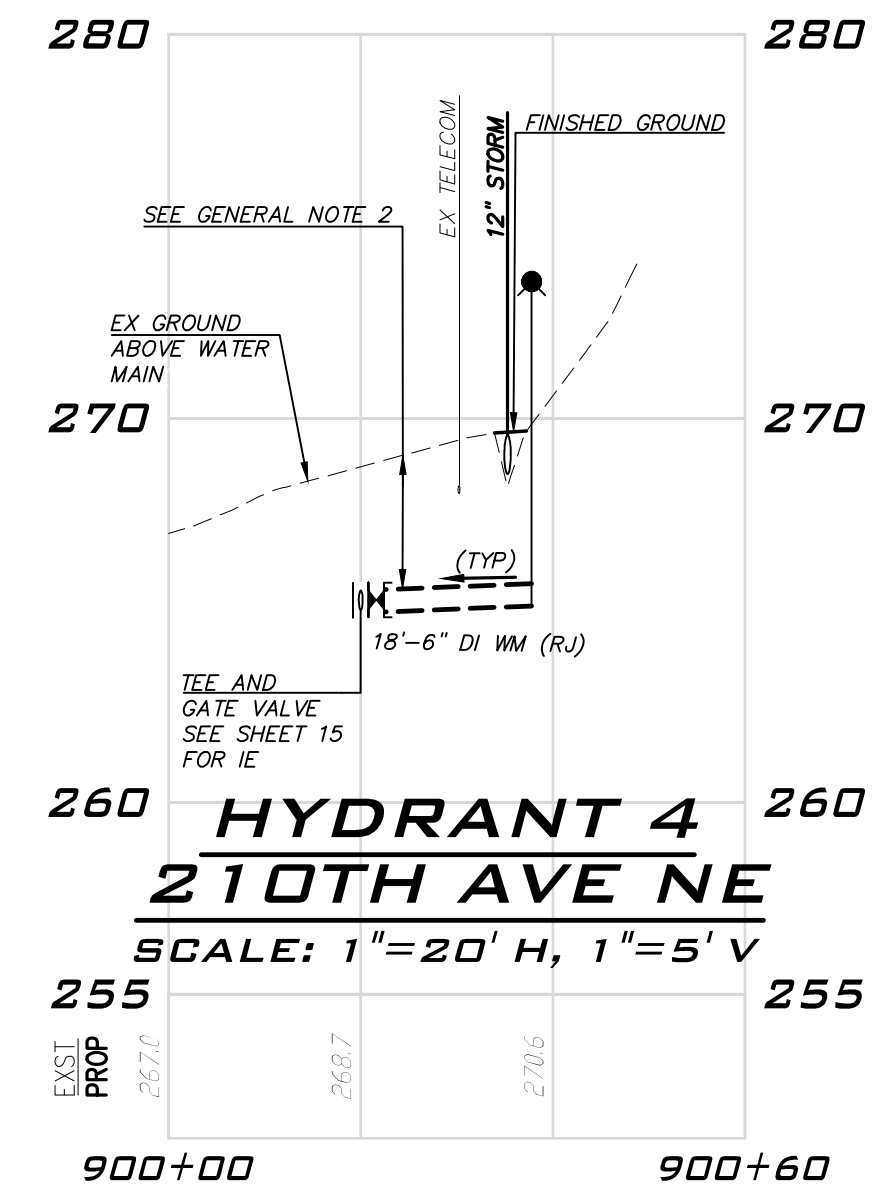
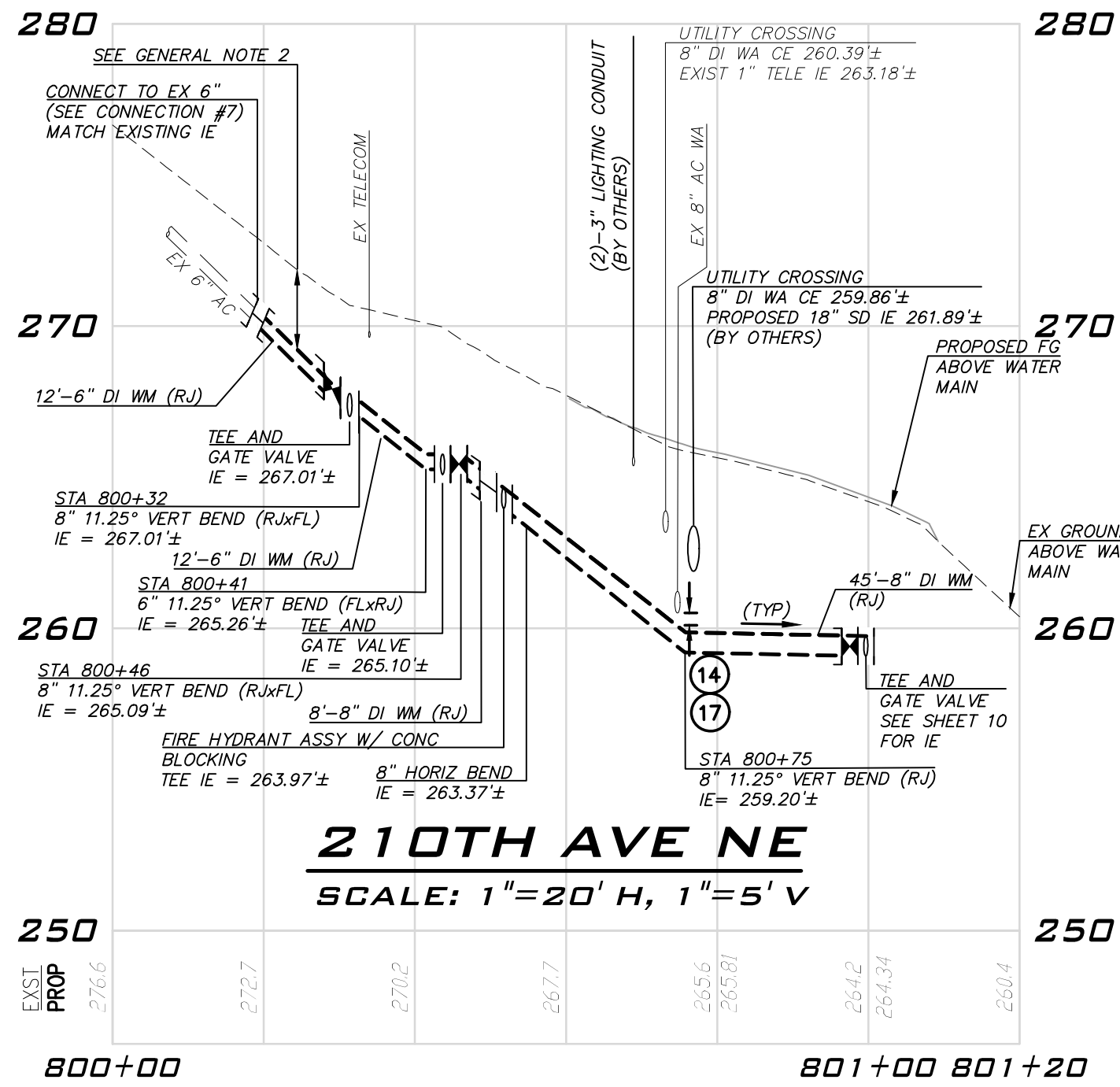
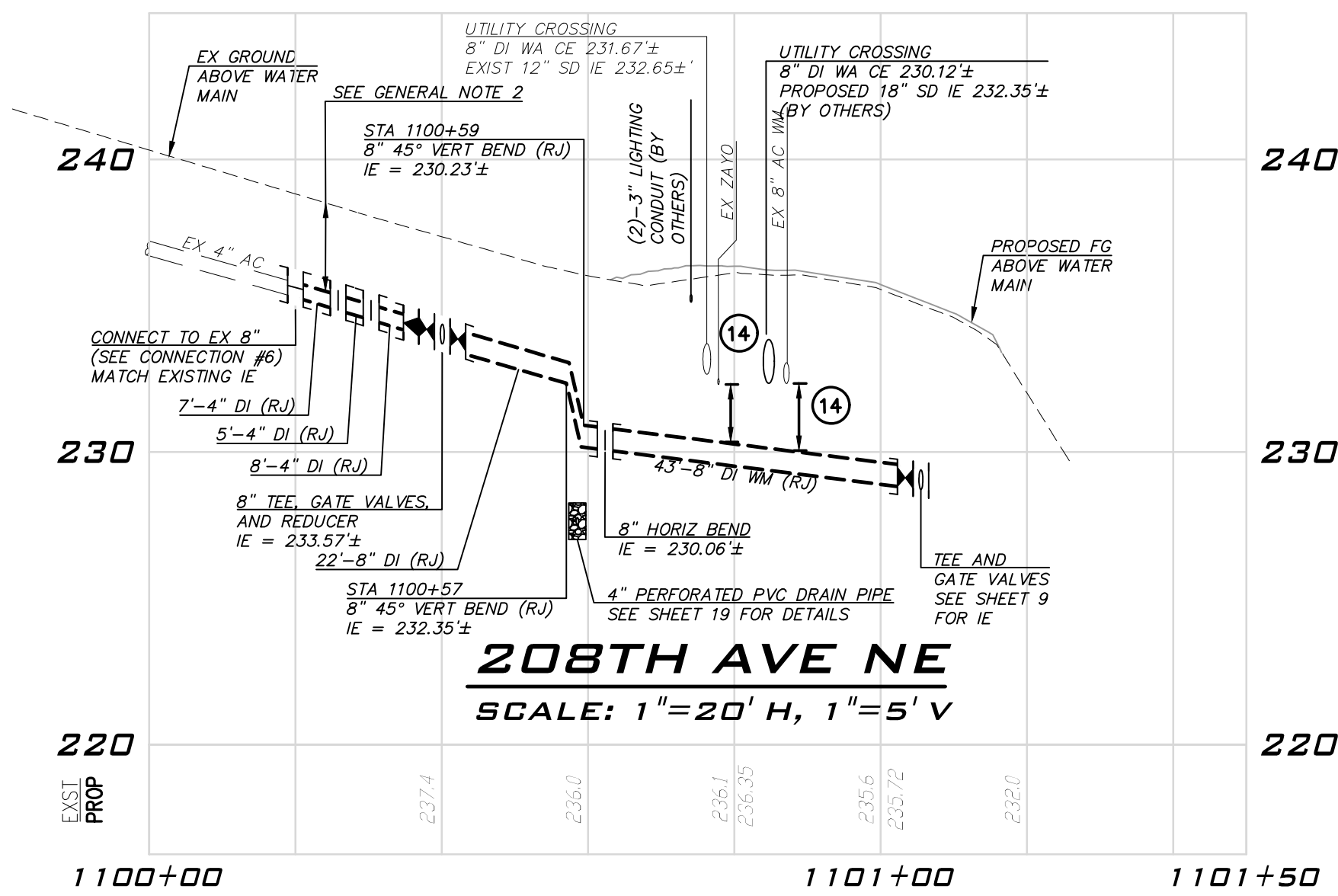


Sammamish Plateau Water
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LOUIS THOMPSON RD NE
WATER MAIN REPLACEMENT
WATER PLAN & PROFILE
STA 42+00 TO STA 44+00

DATE: 05/2024
 DRAWN: MM
 CHECKED: JMF
 JOB NO.: 95SAM020100

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GENERAL NOTES

- STATIONS SHOWN IN LATERAL MAIN AND HYDRANT PROFILE VIEWS ARE UNIQUE TO EACH PROFILE AND UNRELATED TO LTR STATIONS SHOWN ON SHEETS 5-13.
- WATER MAIN SHALL BE INSTALLED AT THE DEPTH AND SLOPE PER THE PROFILE DRAWINGS IN ORDER TO AVOID INTERMEDIATE HIGH SPOTS. WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF 3- FEET OF COVER UNLESS NOTED OTHERWISE.

CONSTRUCTION NOTES

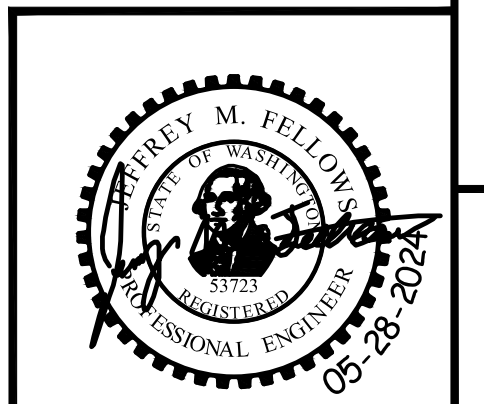
- SEE WATER MAIN GENERAL NOTE 3, SHEET 2 FOR CROSSING UTILITY CLEARANCE REQUIREMENTS.
- ENCASE WATER MAIN 5' EITHER SIDE OF UTILITY CROSSING IN CDF.

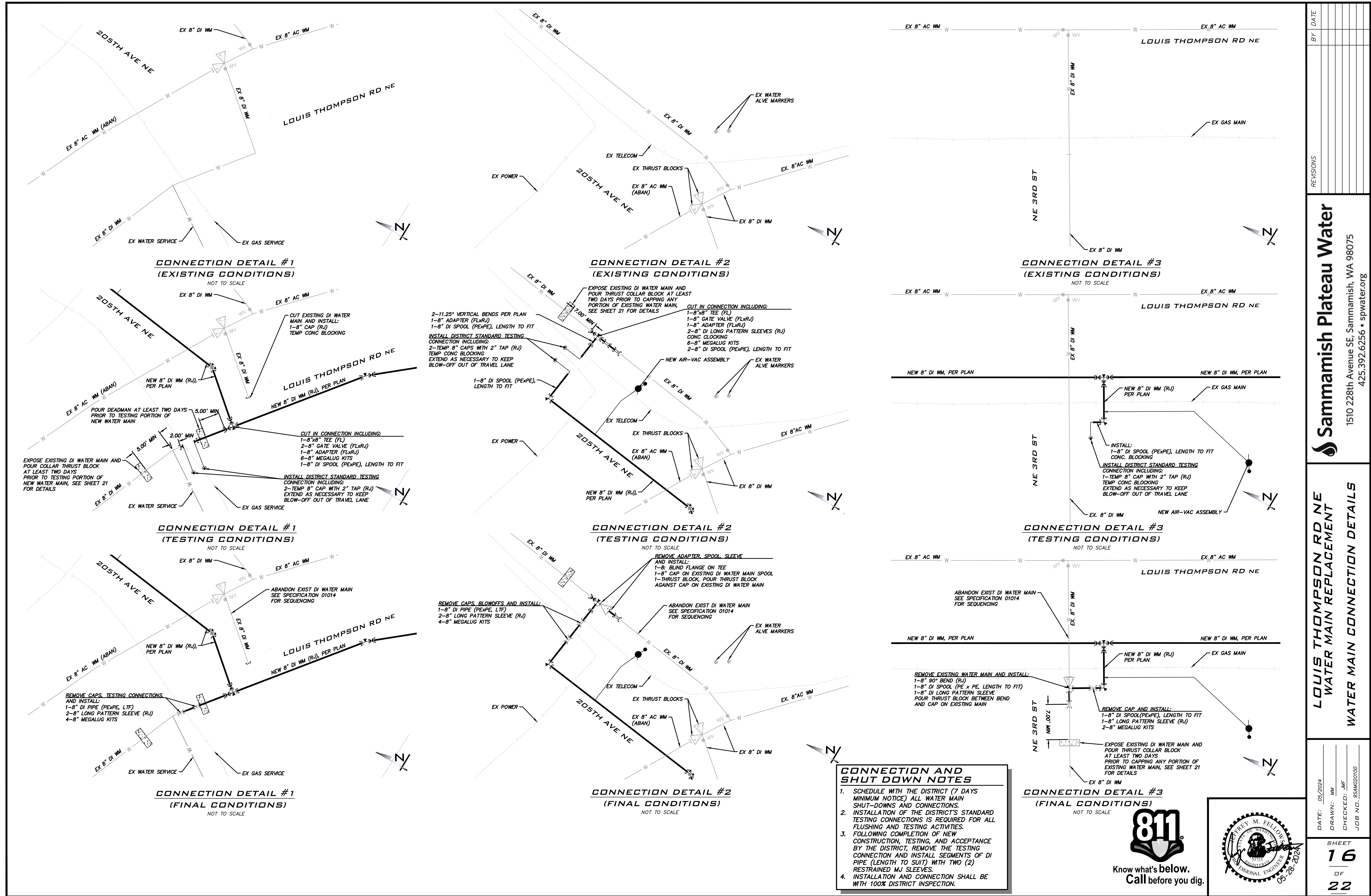
REVISIONS	BY	DATE

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**LOUIS THOMPSON RD NE
 WATER MAIN REPLACEMENT
 WATER MAIN CROSSING PROFILES 2**

DATE: 05/2024	SHEET
DRAWN: MM	15
CHECKED: JMF	OF
JOB NO. 95SAM020100	22





CONNECTION DETAIL #1
(EXISTING CONDITIONS)

CONNECTION DETAIL #2
(EXISTING CONDITIONS)

CONNECTION DETAIL #3
(EXISTING CONDITIONS)

CONNECTION DETAIL #1
(TESTING CONDITIONS)

CONNECTION DETAIL #2
(TESTING CONDITIONS)

CONNECTION DETAIL #3
(TESTING CONDITIONS)

CONNECTION DETAIL #1
(FINAL CONDITIONS)

CONNECTION DETAIL #2
(FINAL CONDITIONS)

CONNECTION DETAIL #3
(FINAL CONDITIONS)

CONNECTION AND SHUT DOWN NOTES

- SCHEDULE WITH THE DISTRICT (7 DAYS MINIMUM NOTICE) ALL WATER MAIN SHUT-DOWNS AND CONNECTIONS.
- INSTALLATION OF THE DISTRICT'S STANDARD TESTING CONNECTIONS IS REQUIRED FOR ALL FLUSHING AND TESTING ACTIVITIES.
- FOLLOWING COMPLETION OF NEW CONSTRUCTION, TESTING, AND ACCEPTANCE BY THE DISTRICT, REMOVE THE TESTING CONNECTION AND INSTALL SEGMENTS OF DI PIPE (LENGTH TO SUIT) WITH TWO (2) RESTRAINED MJ SLEEVES.
- INSTALLATION AND CONNECTION SHALL BE WITH 100% DISTRICT INSPECTION.

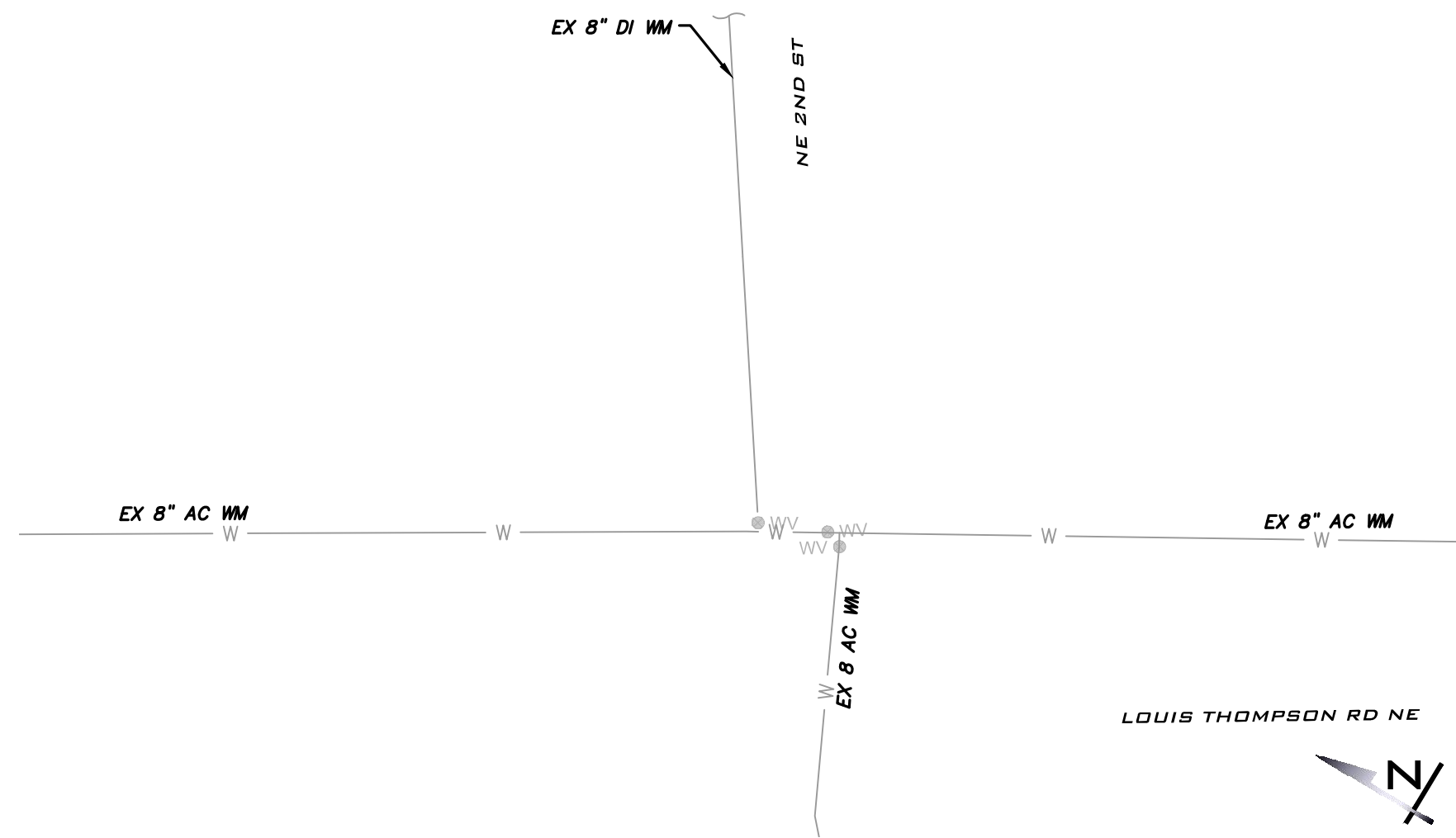


REVISIONS	BY	DATE

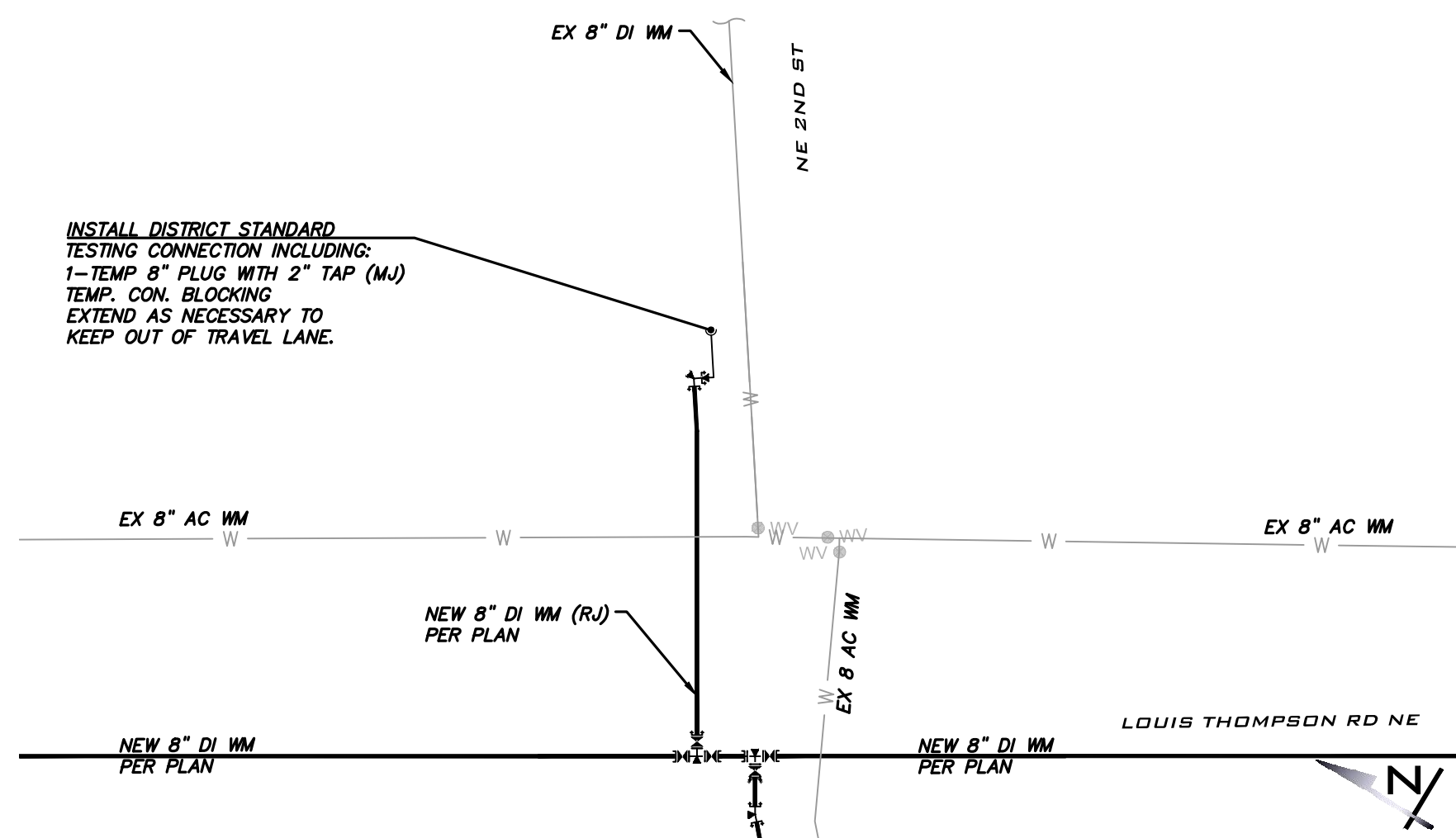
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LOUIS THOMPSON RD NE
WATER MAIN REPLACEMENT
WATER MAIN CONNECTION DETAILS

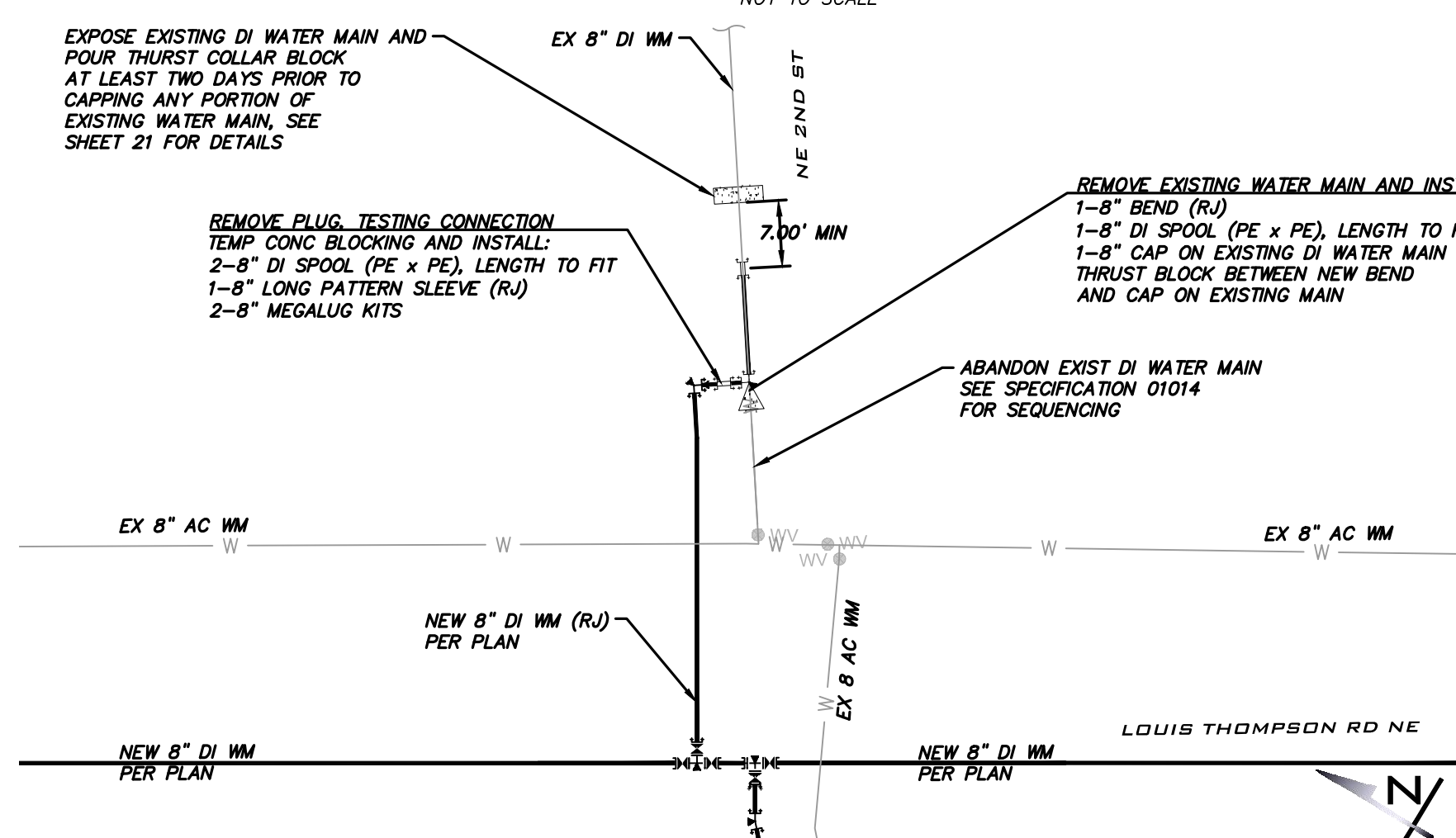
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SHEET		16	
OF		22	



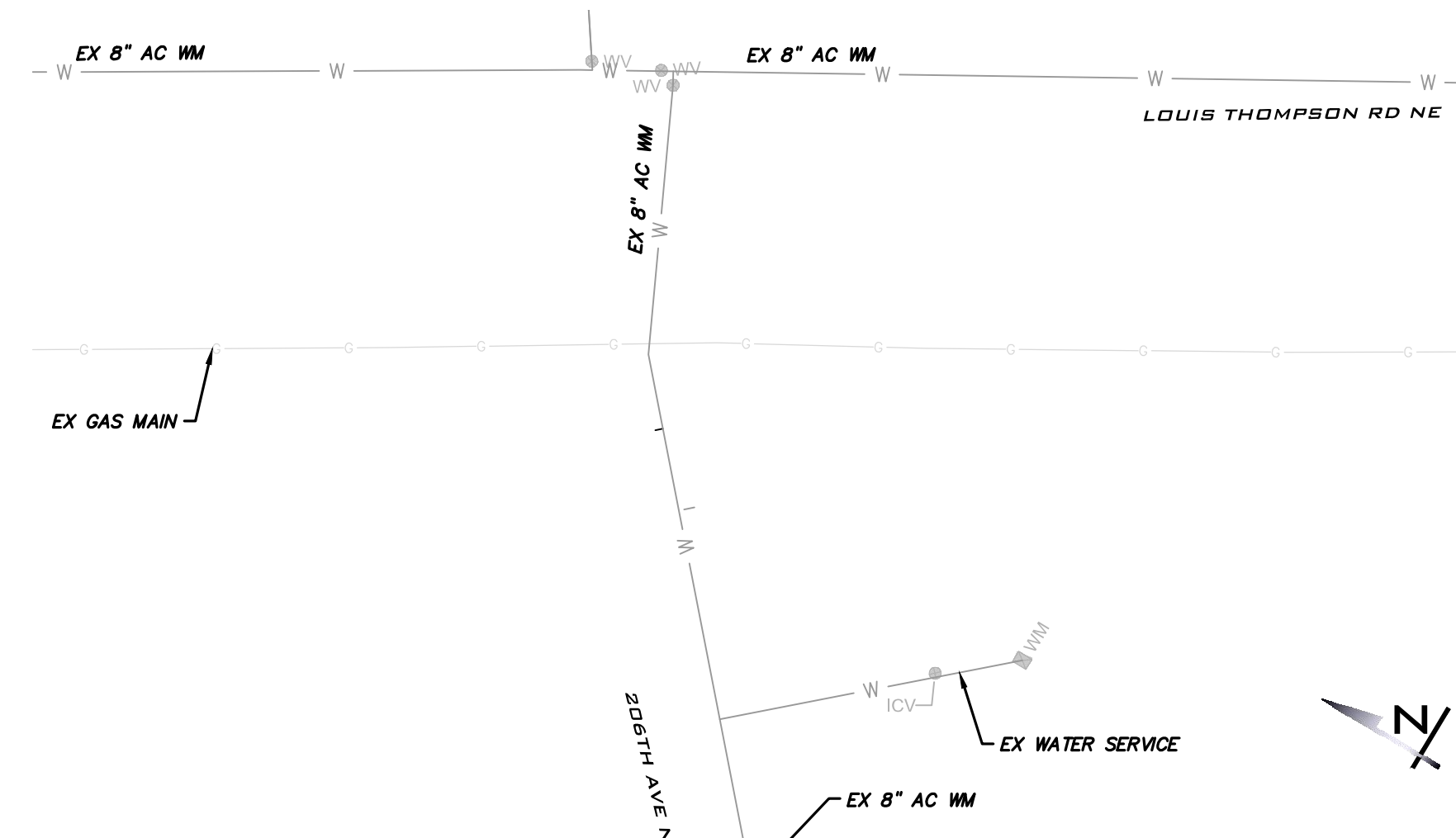
**CONNECTION DETAIL #4
(EXISTING CONDITIONS)**
NOT TO SCALE



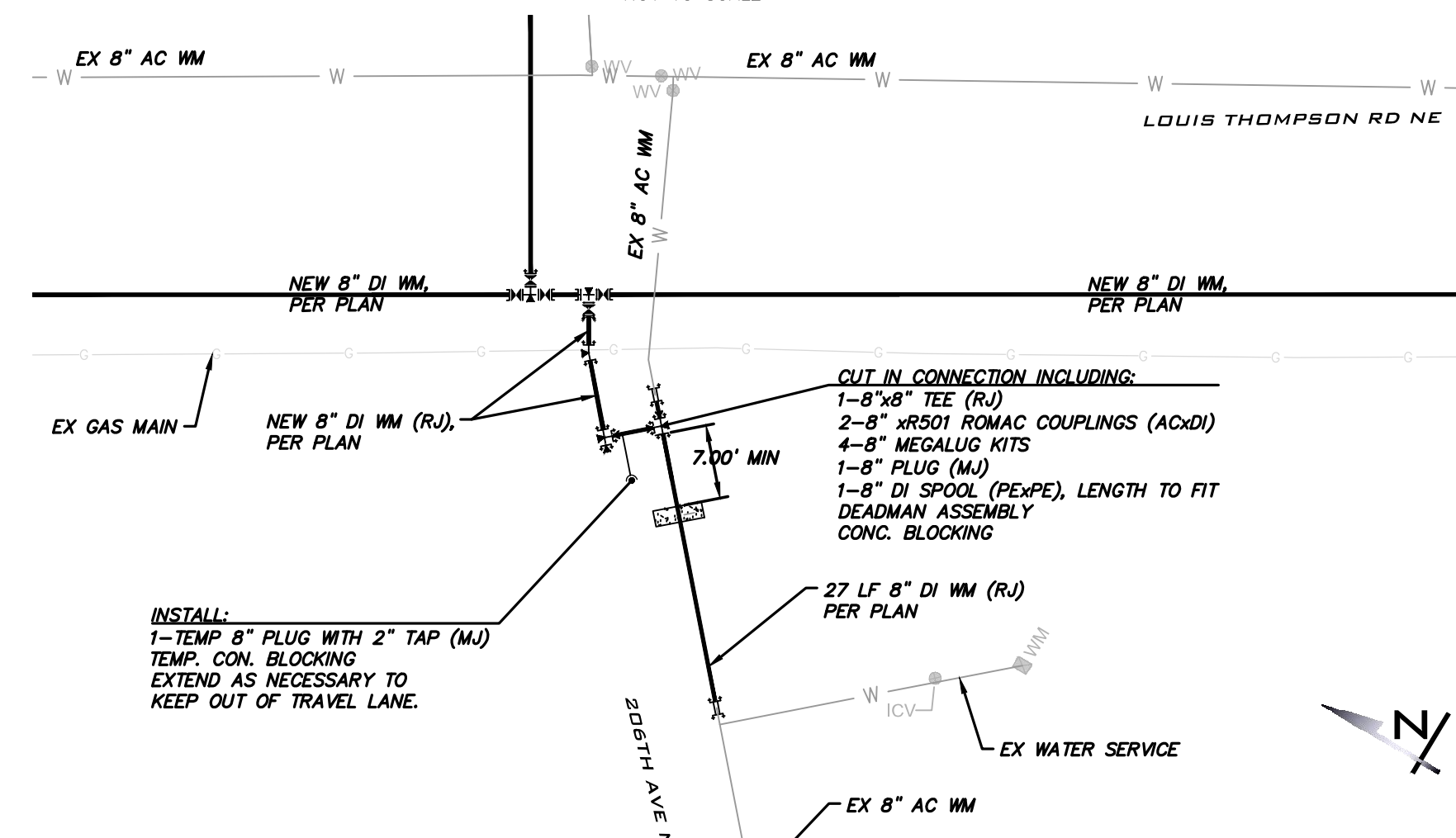
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(TESTING CONDITIONS)**
NOT TO SCALE



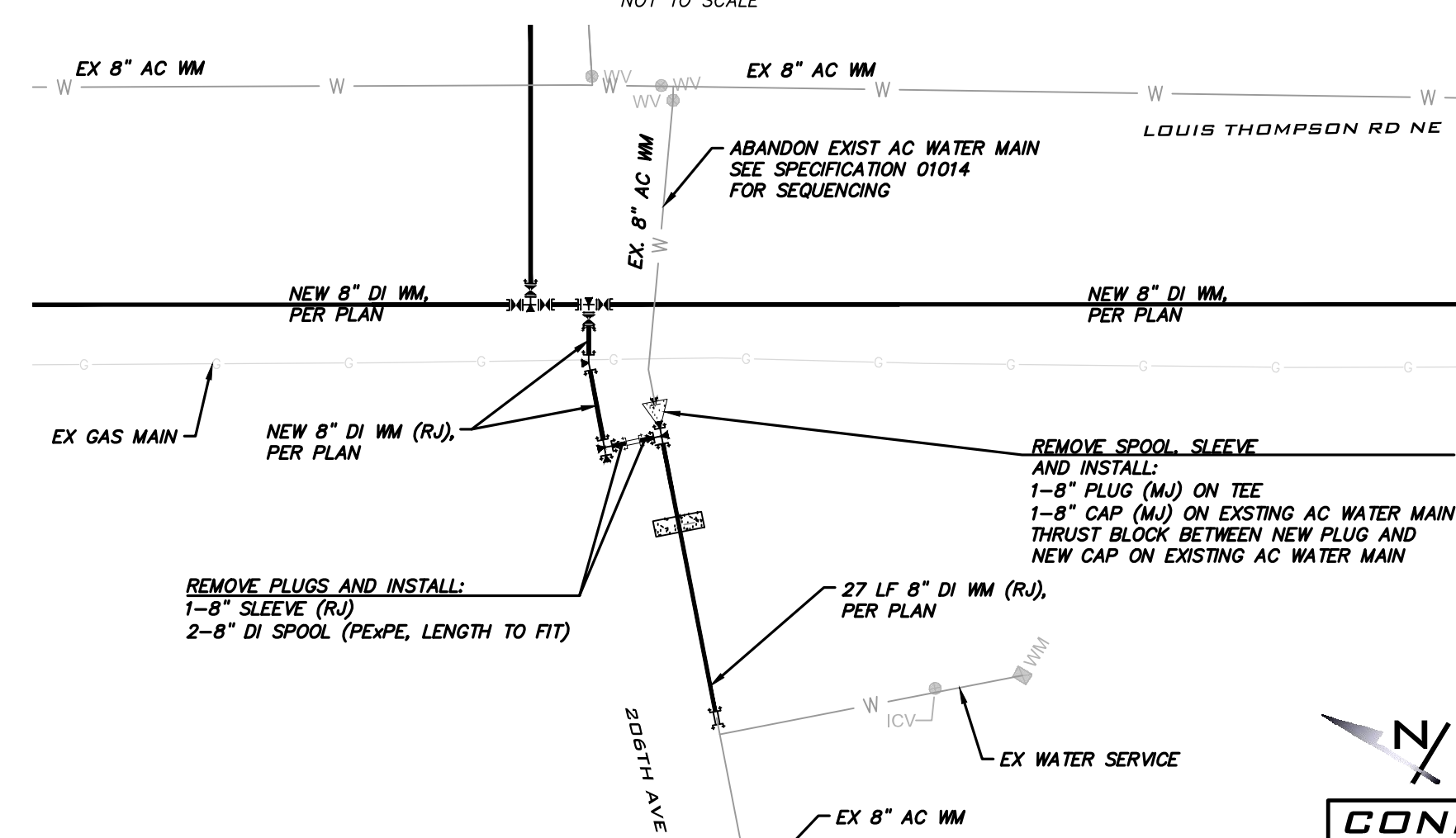
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(FINAL CONDITIONS)**
NOT TO SCALE



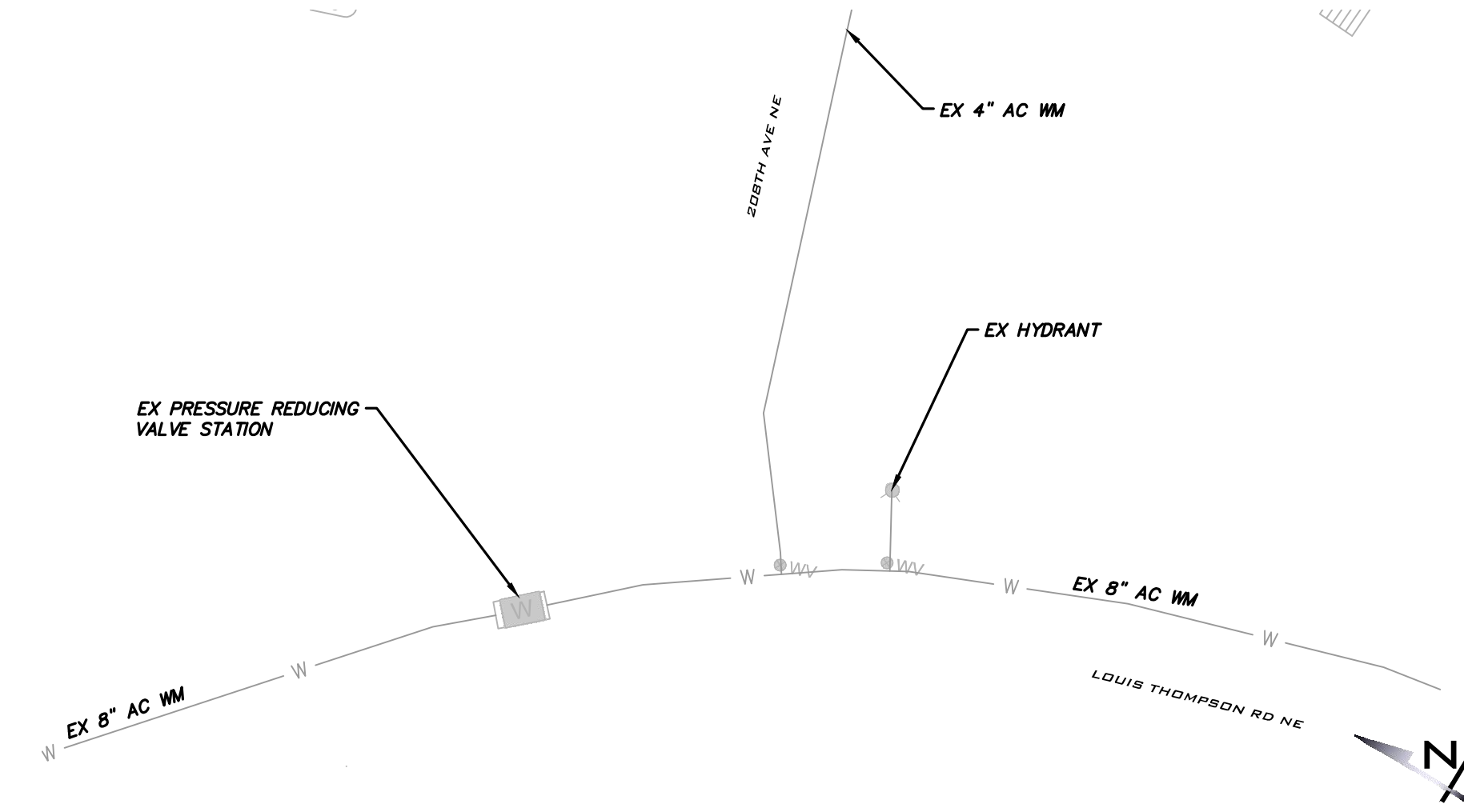
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(EXISTING CONDITIONS)**
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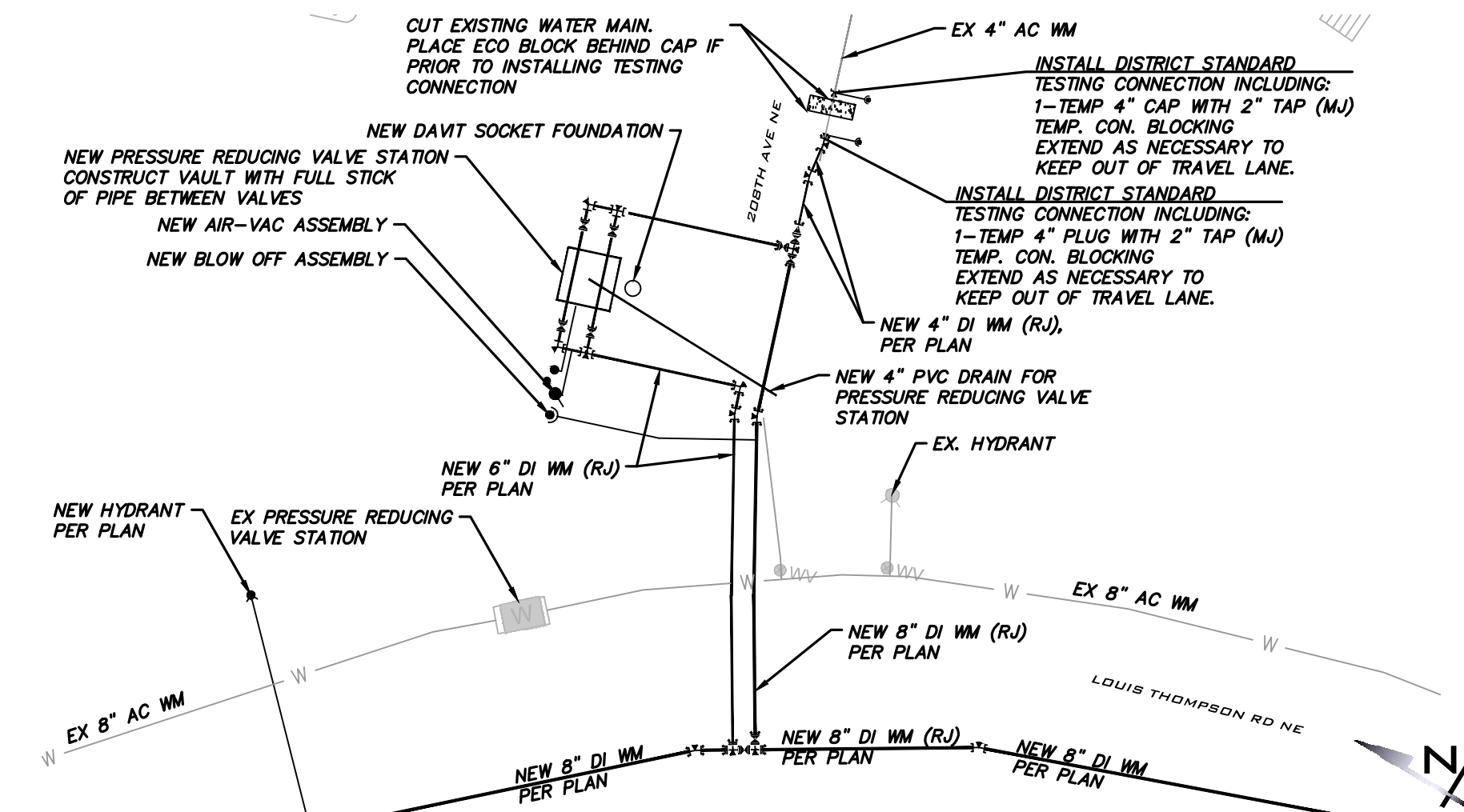
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(TESTING CONDITIONS)**
NOT TO SCALE



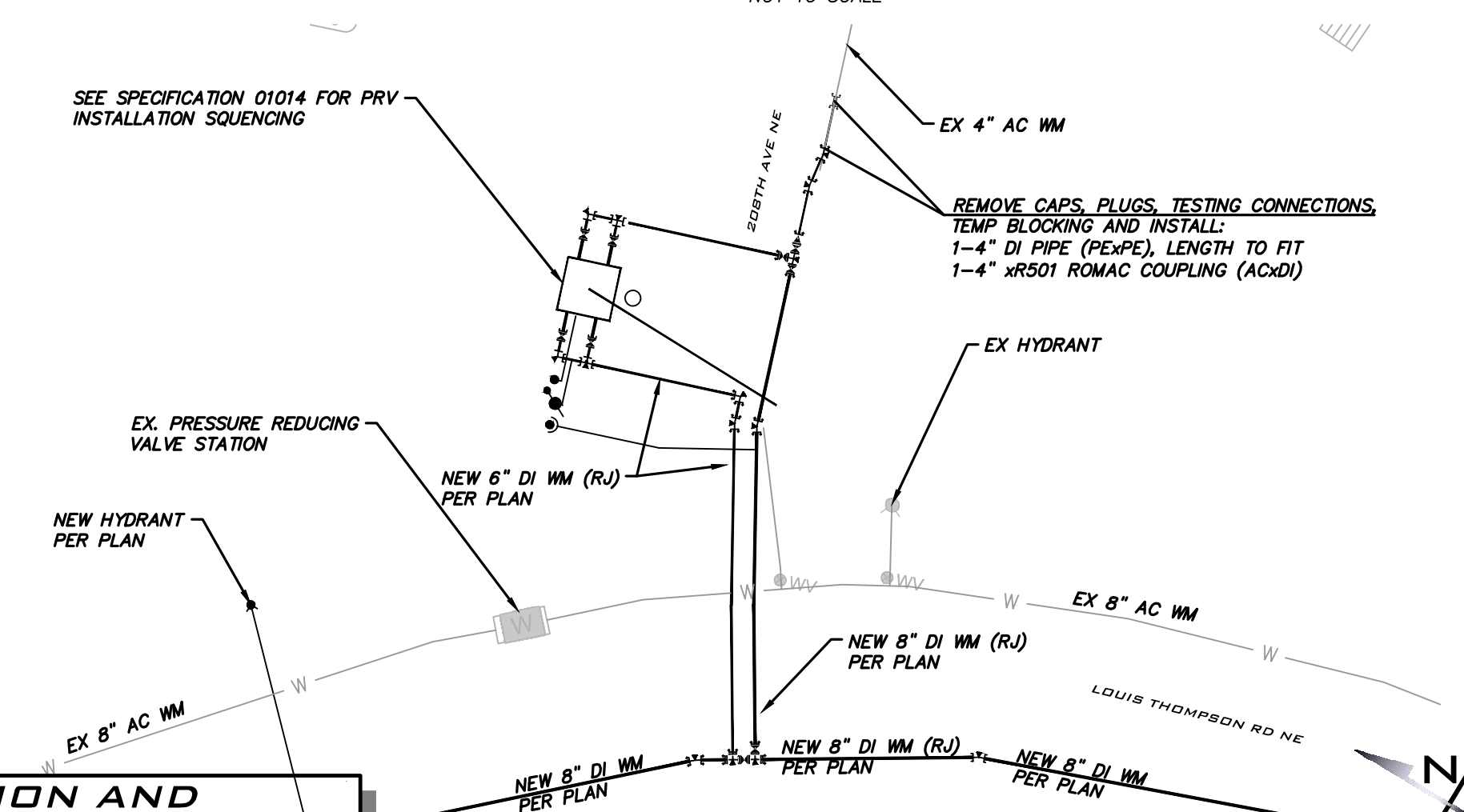
**CONNECTION DETAIL #5
(FINAL CONDITIONS)**
NOT TO SCALE



**CONNECTION DETAIL #6
(EXISTING CONDITIONS)**
NOT TO SCALE



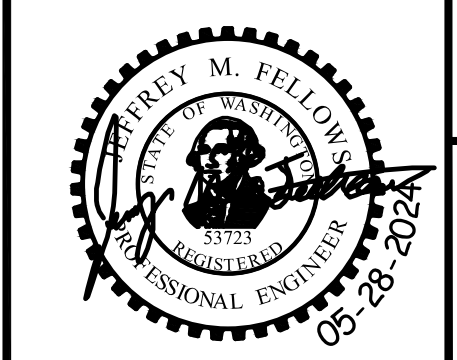
**CONNECTION DETAIL #6
(TESTING CONDITIONS)**
NOT TO SCALE



**CONNECTION DETAIL #6
(FINAL CONDITIONS)**
NOT TO SCALE

CONNECTION AND SHUT DOWN NOTES

- SCHEDULE WITH THE DISTRICT (7 DAYS MINIMUM NOTICE) ALL WATER MAIN SHUT-DOWNS AND CONNECTIONS.
- INSTALLATION OF THE DISTRICT'S STANDARD TESTING CONNECTIONS IS REQUIRED FOR ALL FLUSHING AND TESTING ACTIVITIES.
- FOLLOWING COMPLETION OF NEW CONSTRUCTION, TESTING, AND ACCEPTANCE BY THE DISTRICT, REMOVE THE TESTING CONNECTION AND INSTALL SEGMENTS OF DI PIPE (LENGTH TO SUIT) WITH TWO (2) RESTRAINED MJ SLEEVES.
- INSTALLATION AND CONNECTION SHALL BE WITH 100% DISTRICT INSPECTION.



REVISIONS	BY	DATE

Sammamish Plateau Water
1510 228th Avenue SE, Sammamish, WA 98075
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**LOUIS THOMPSON RD NE
WATER MAIN REPLACEMENT
WATER MAIN CONNECTION DETAILS**

DATE: 05/2024
DRAWN: MM
CHECKED: JMF
JOB NO.: 9554020100

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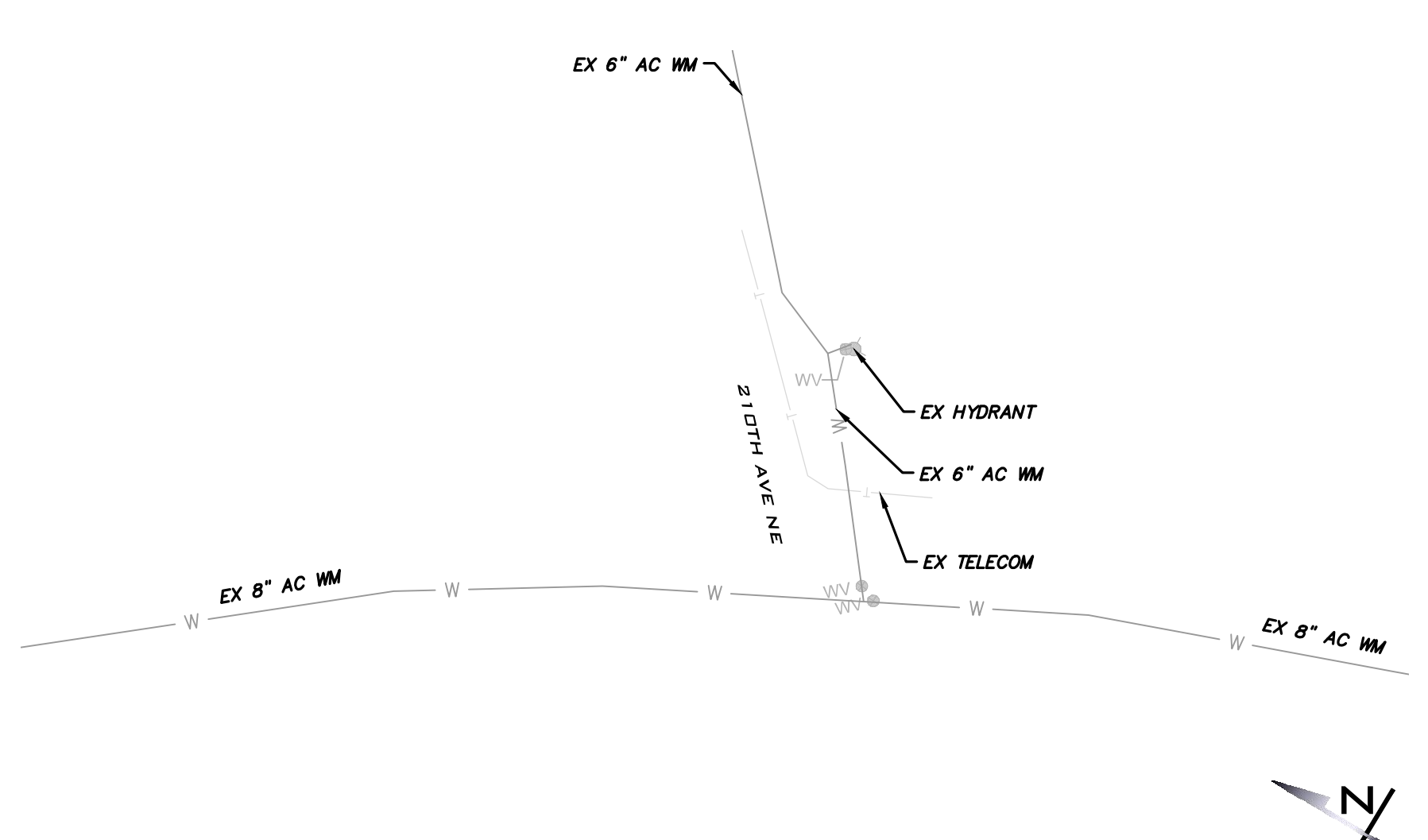
REVISIONS	BY	DATE

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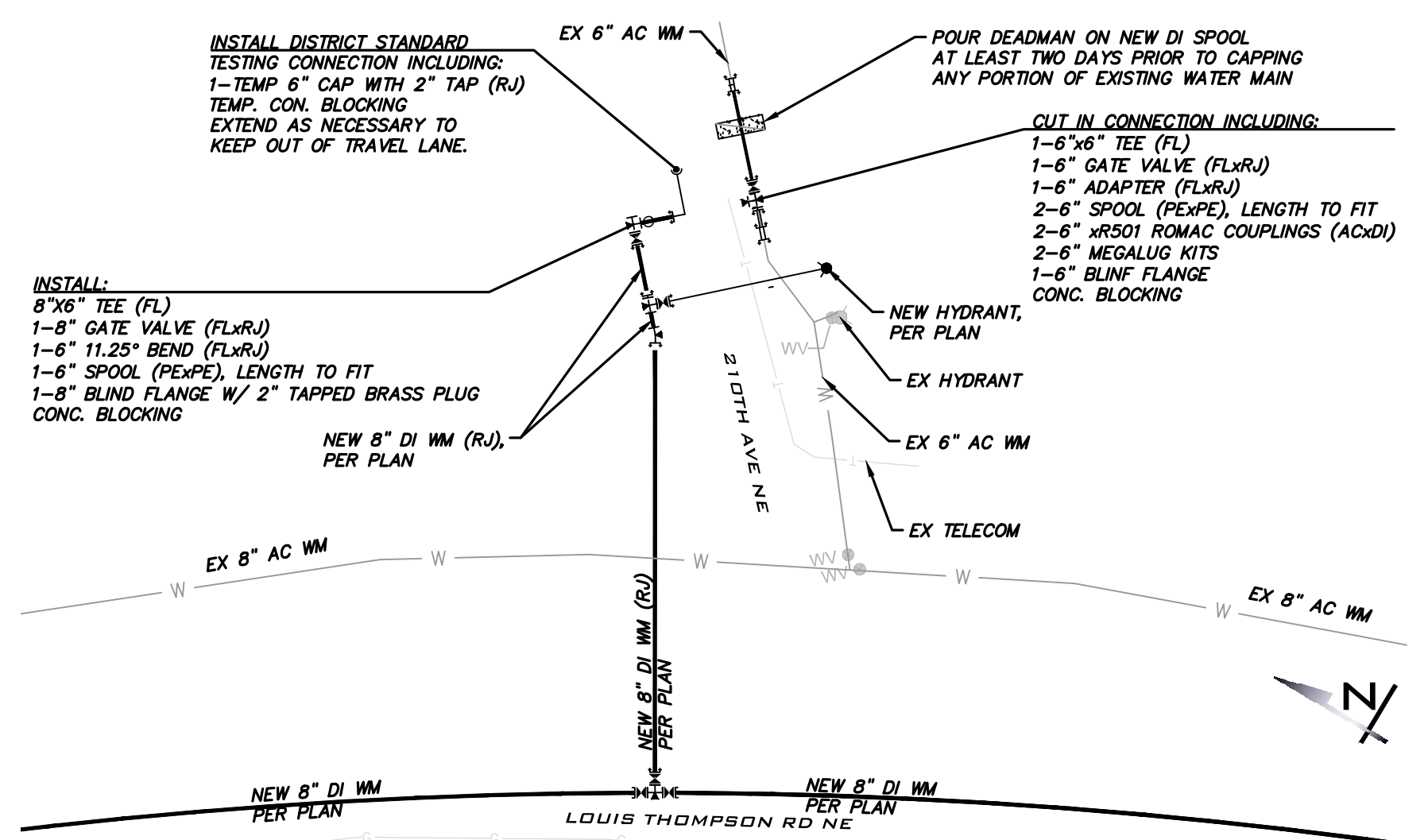
**LOUIS THOMPSON RD NE
 WATER MAIN REPLACEMENT
 WATER MAIN CONNECTION DETAILS**

DATE: 05/2024
 DRAWN: MM
 CHECKED: JMF
 JOB NO.: 95SAM020100

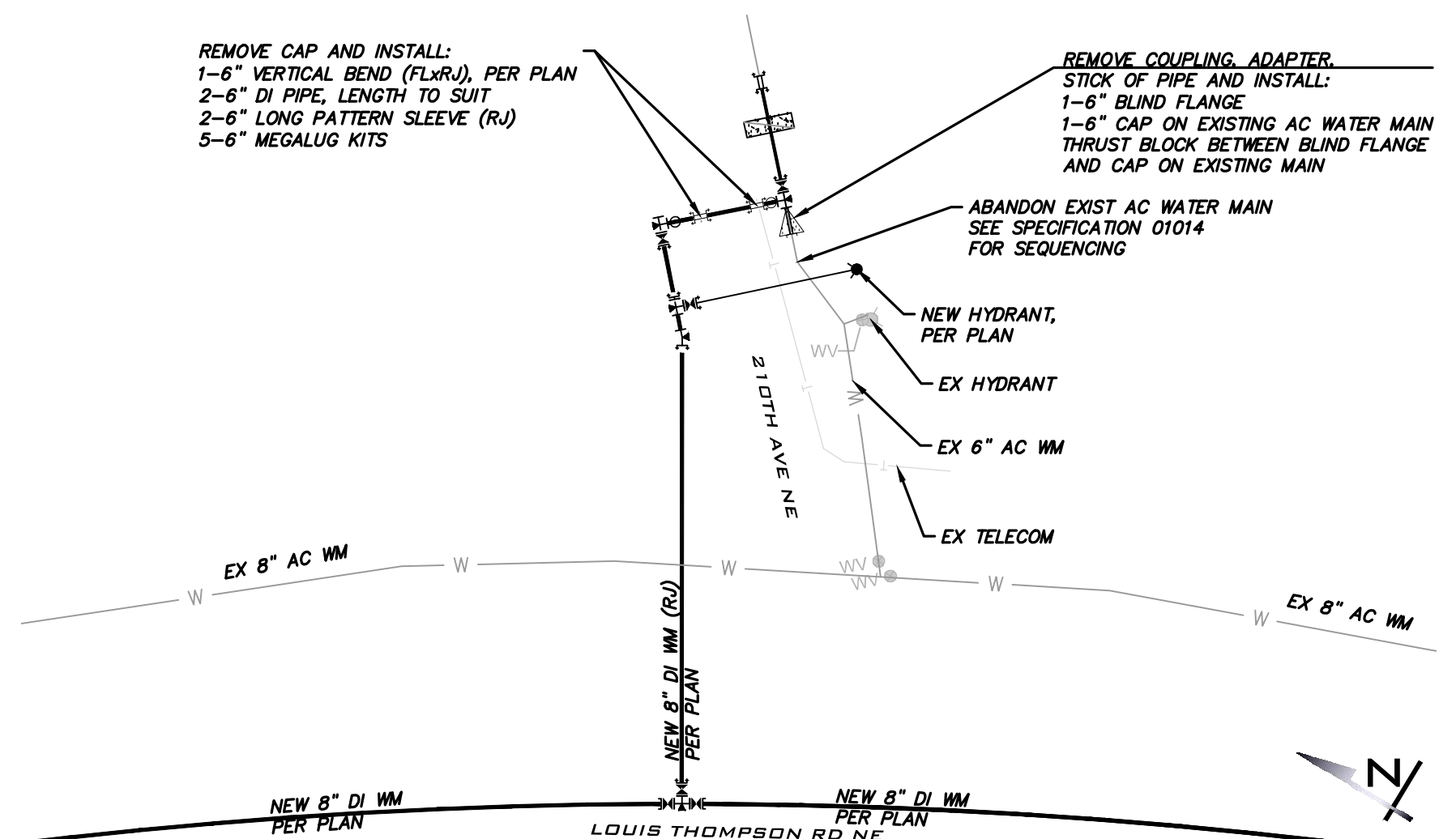
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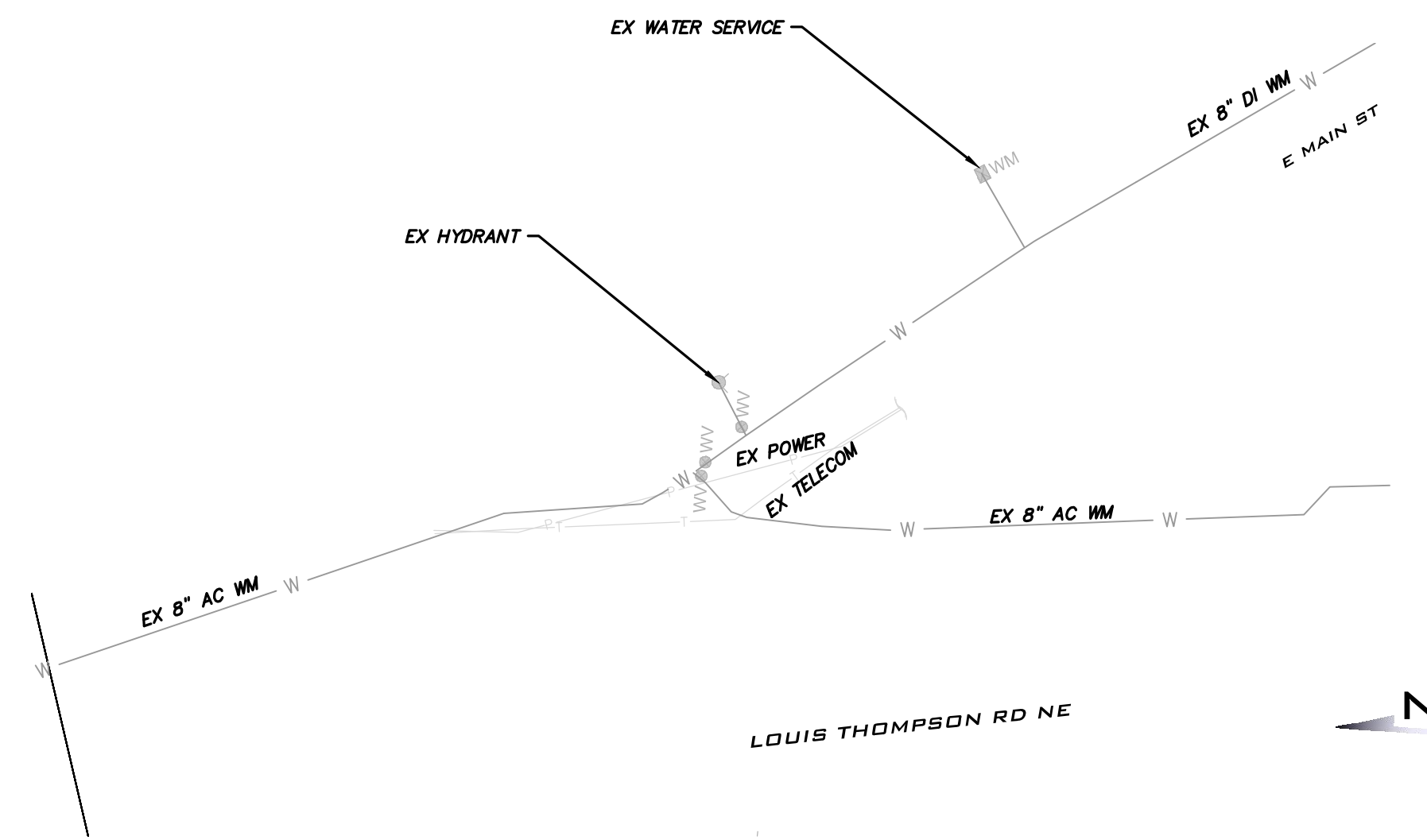
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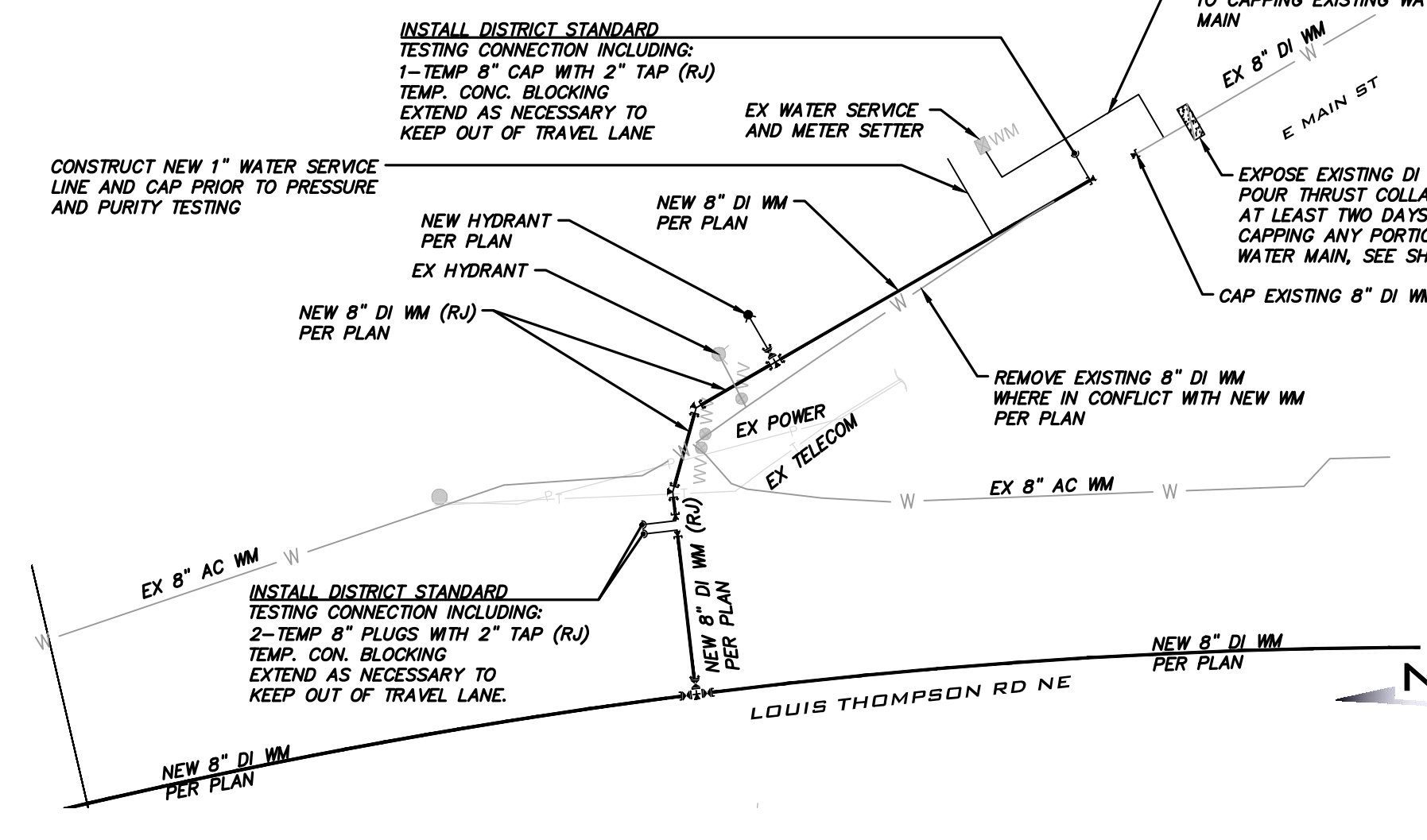
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 (TESTING CONDITIONS)**
 NOT TO SCALE



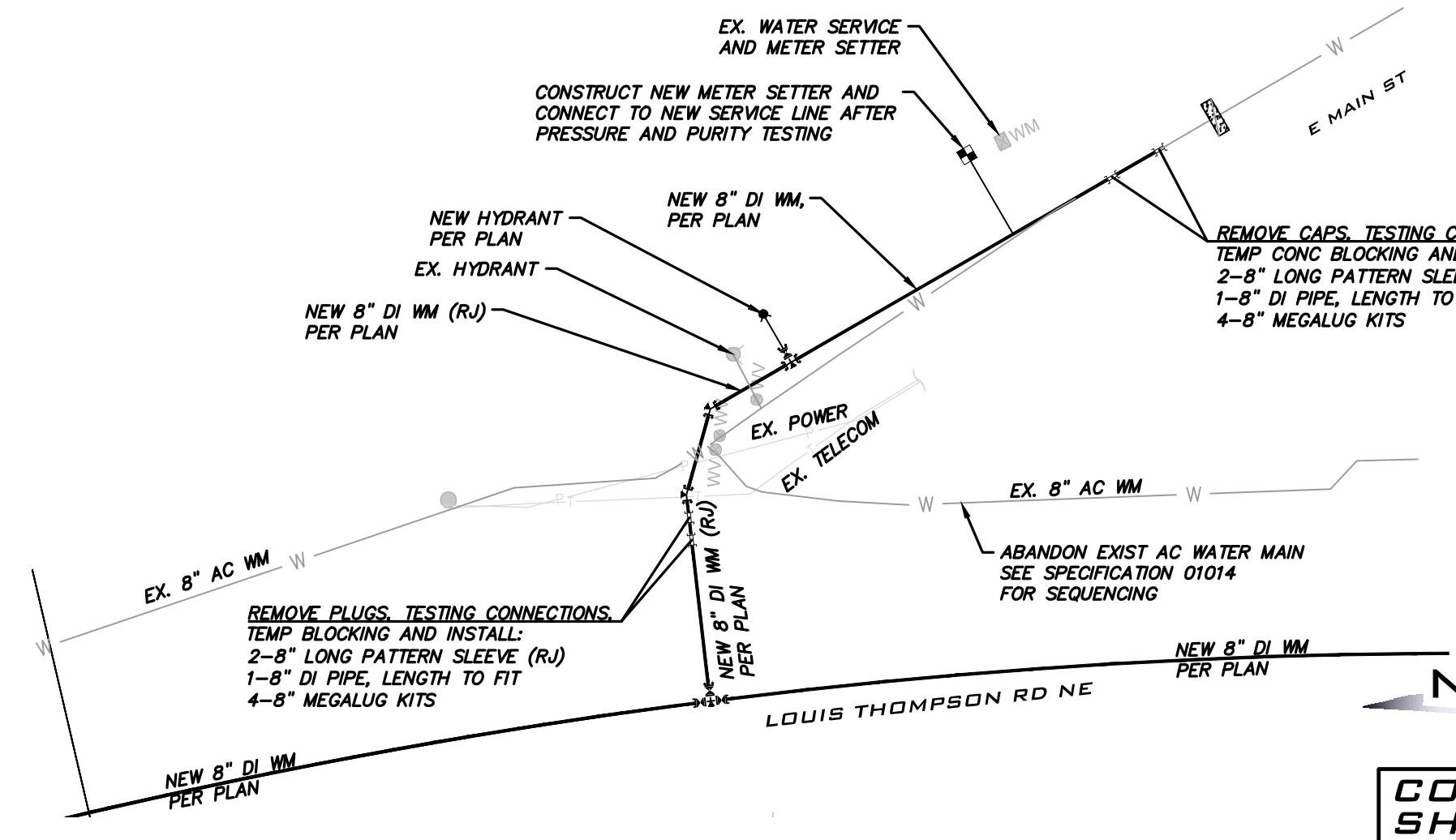
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 NOT TO SCALE



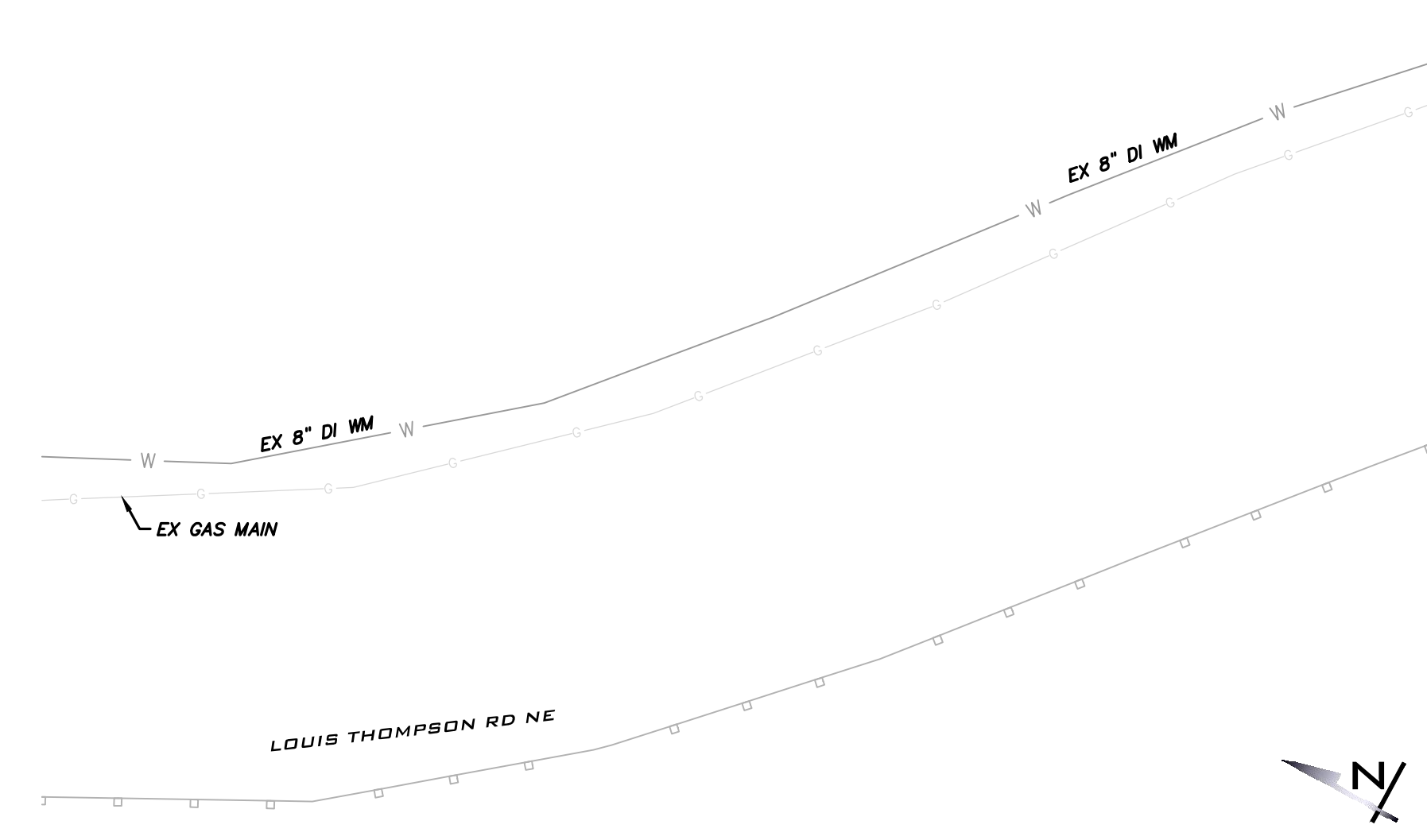
**CONNECTION DETAIL #8
 (EXISTING CONDITIONS)**
 NOT TO SCALE



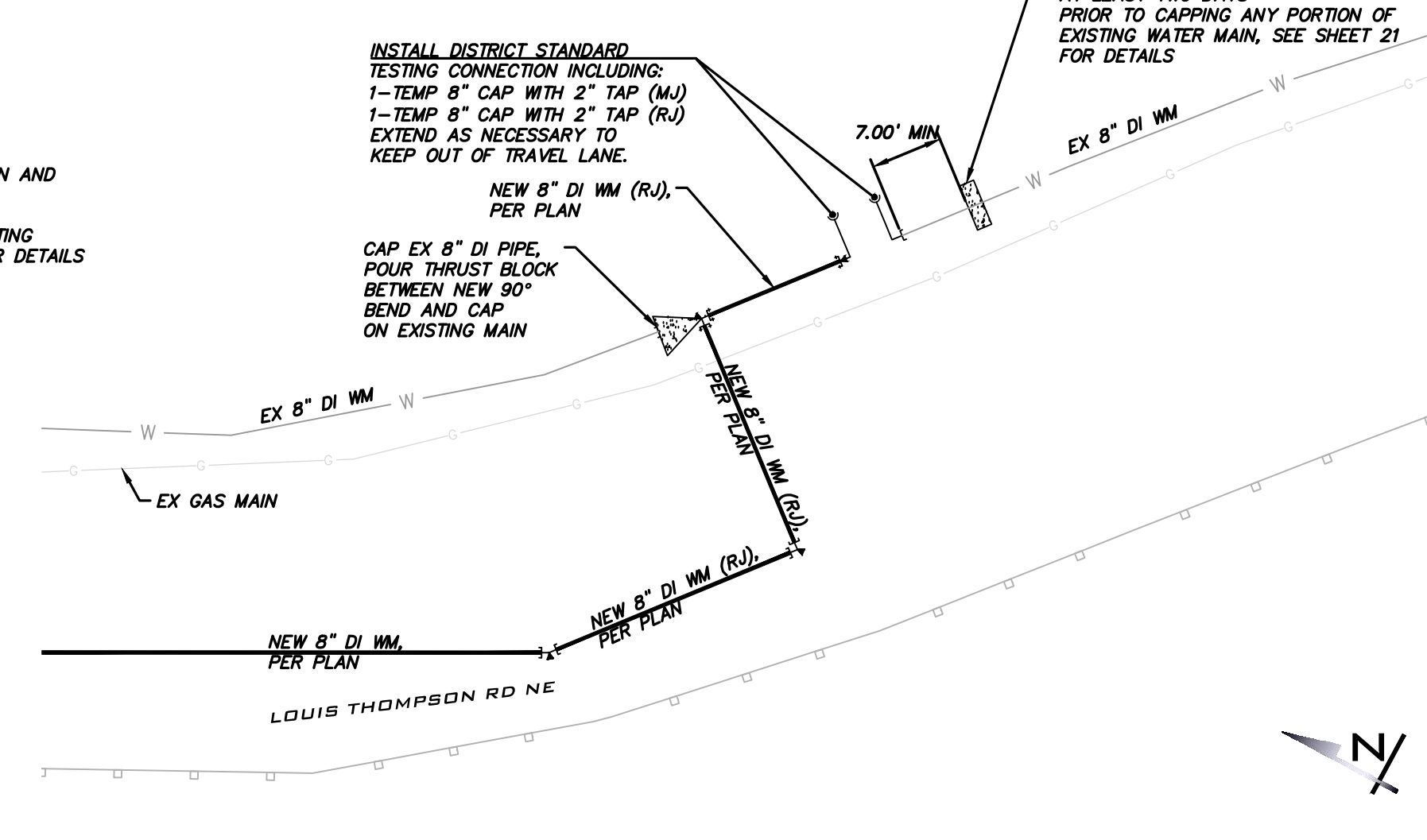
**CONNECTION DETAIL #8
 (TESTING CONDITIONS)**
 NOT TO SCALE



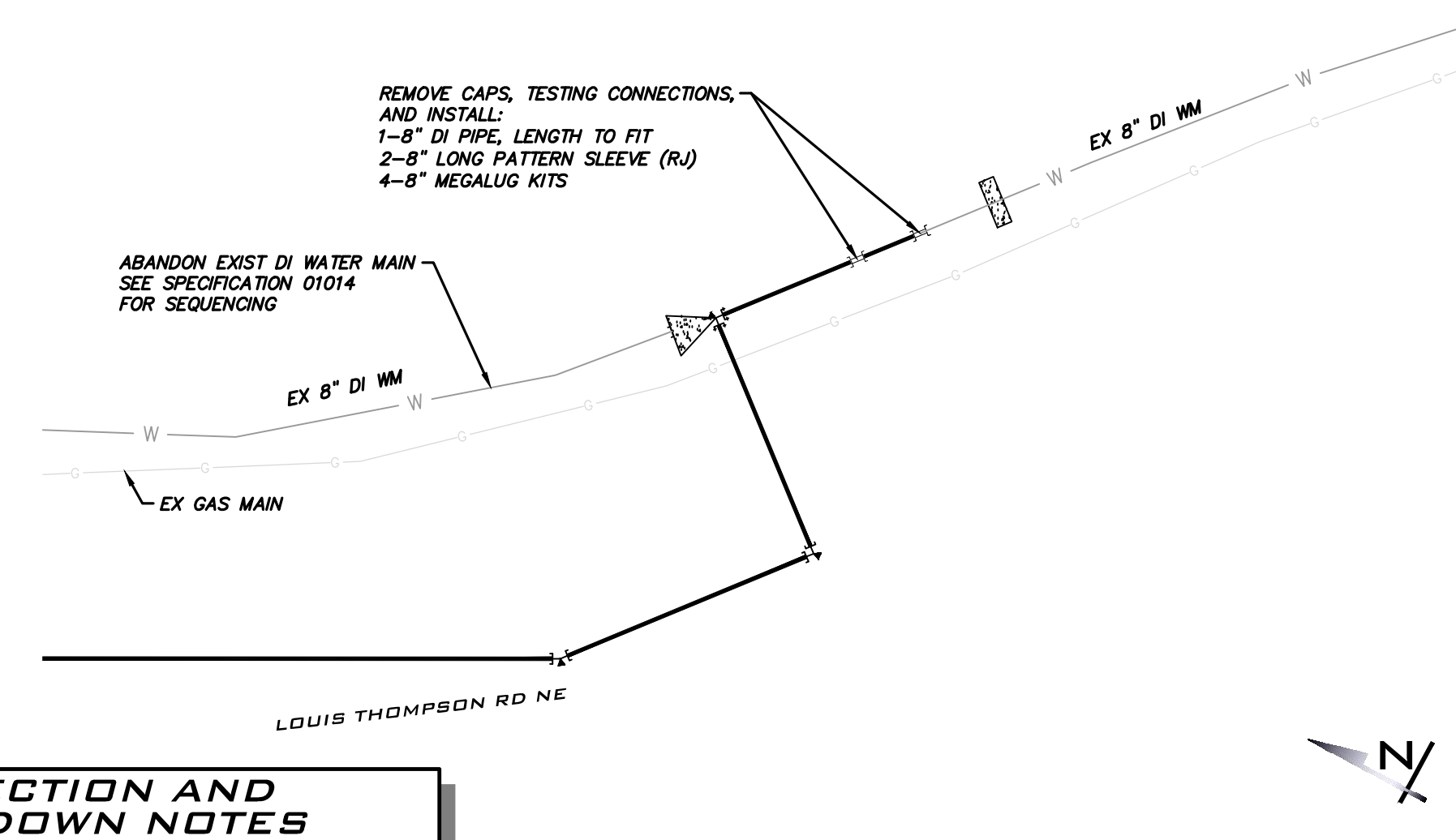
**CONNECTION DETAIL #8
 (FINAL CONDITIONS)**
 NOT TO SCALE



**CONNECTION DETAIL #9
 (EXISTING CONDITIONS)**
 NOT TO SCALE



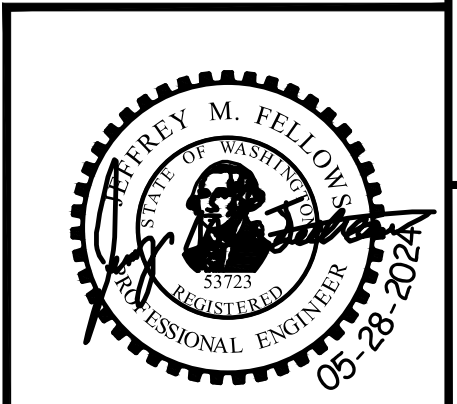
**CONNECTION DETAIL #9
 (TESTING CONDITIONS)**
 NOT TO SCALE

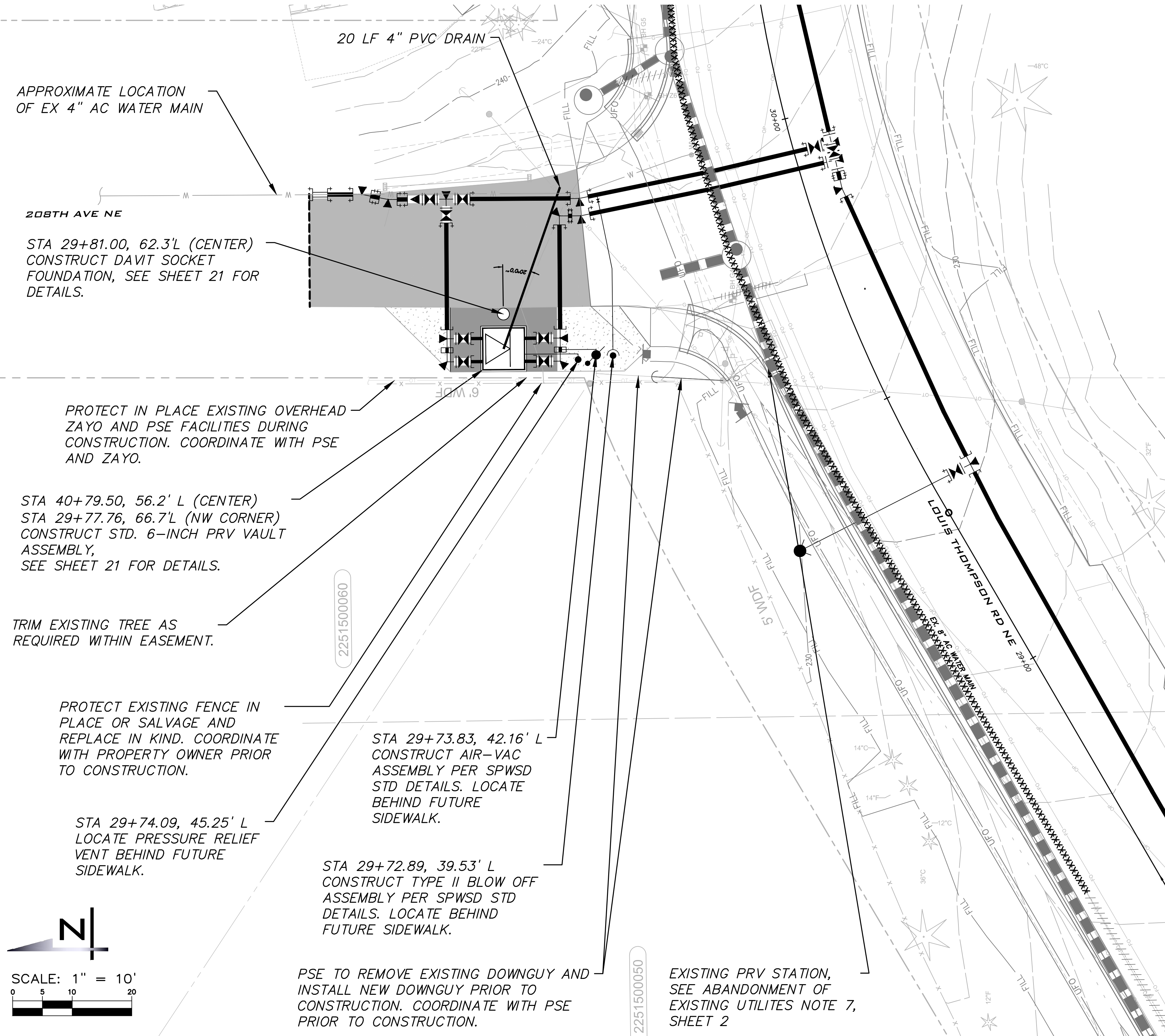


**CONNECTION DETAIL #9
 (FINAL CONDITIONS)**
 NOT TO SCALE

CONNECTION AND SHUT DOWN NOTES

- SCHEDULE WITH THE DISTRICT (7 DAYS MINIMUM NOTICE) ALL WATER MAIN SHUT-DOWNS AND CONNECTIONS.
- INSTALLATION OF THE DISTRICT'S STANDARD TESTING CONNECTIONS IS REQUIRED FOR ALL FLUSHING AND TESTING ACTIVITIES.
- FOLLOWING COMPLETION OF NEW CONSTRUCTION, TESTING, AND ACCEPTANCE BY THE DISTRICT, REMOVE THE TESTING CONNECTION AND INSTALL SEGMENTS OF DI PIPE (LENGTH TO SUIT) WITH TWO (2) RESTRAINED MJ SLEEVES.
- INSTALLATION AND CONNECTION SHALL BE WITH 100% DISTRICT INSPECTION.



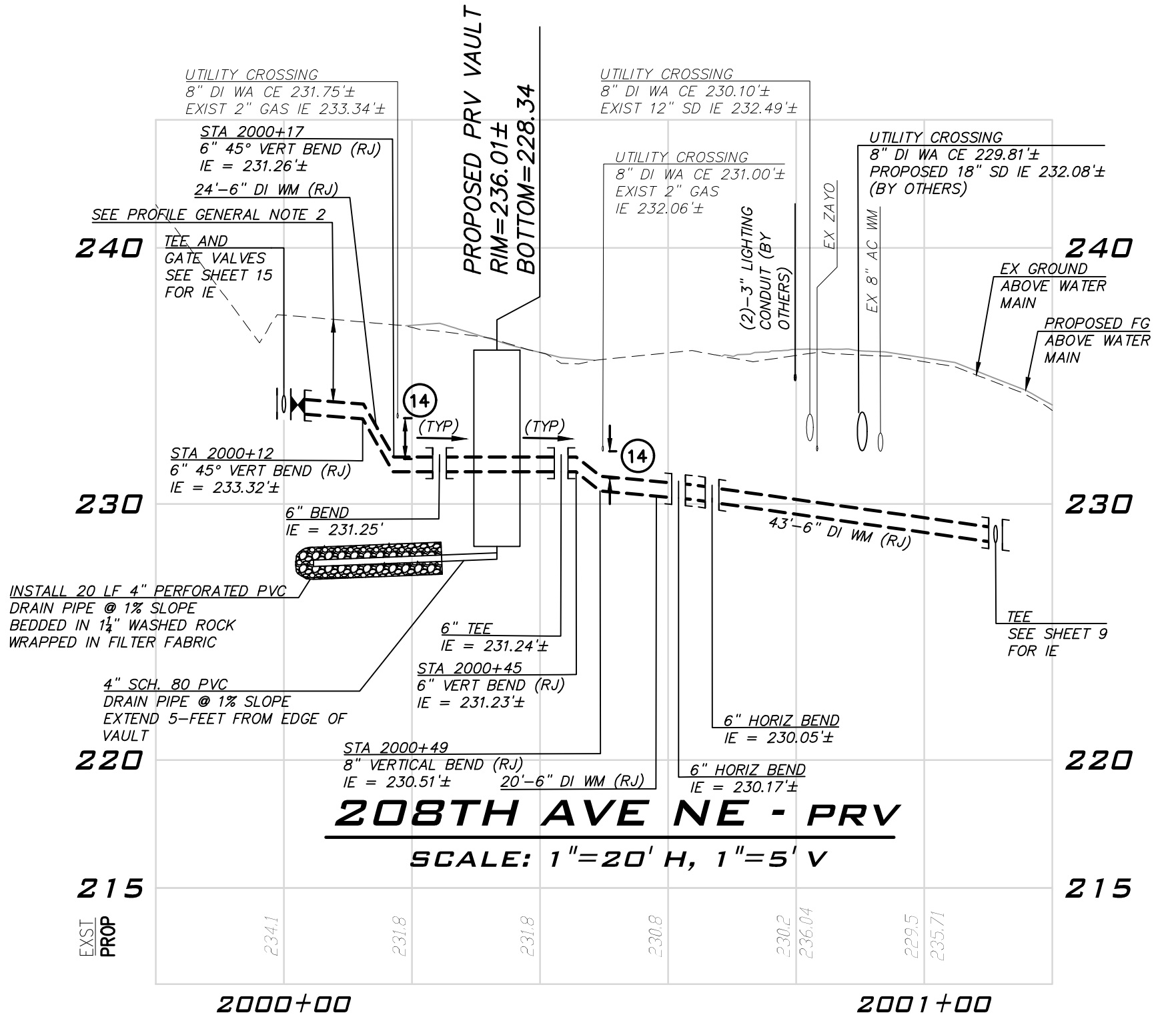


PRV SITE PLAN GENERAL NOTES

- SEE SHEET 22 FOR RESTORATION AND GRADING DETAILS.

PROFILE GENERAL NOTES

- STATIONS SHOWN ON PROFILE ARE UNIQUE TO THAT PROFILE AND UNRELATED TO LTR STATIONS SHOWN ON SHEETS 5-13.
- WATER MAIN SHALL BE INSTALLED AT THE DEPTH AND SLOPE PER THE PROFILE DRAWINGS IN ORDER TO AVOID INTERMEDIATE HIGH SPOTS. WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF 3- FEET OF COVER UNLESS NOTED OTHERWISE.



UNDERGROUND UTILITY NOTE

UNDERGROUND 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.

APPROXIMATE LOCATION OF EX 4" AC WATER MAIN

208TH AVE NE

STA 29+81.00, 62.3'L (CENTER)
CONSTRUCT DAVIT SOCKET FOUNDATION, SEE SHEET 21 FOR DETAILS.

PROTECT IN PLACE EXISTING OVERHEAD ZAYO AND PSE FACILITIES DURING CONSTRUCTION. COORDINATE WITH PSE AND ZAYO.

STA 40+79.50, 56.2' L (CENTER)
STA 29+77.76, 66.7'L (NW CORNER)
CONSTRUCT STD. 6-INCH PRV VAULT ASSEMBLY, SEE SHEET 21 FOR DETAILS.

TRIM EXISTING TREE AS REQUIRED WITHIN EASEMENT.

PROTECT EXISTING FENCE IN PLACE OR SALVAGE AND REPLACE IN KIND. COORDINATE WITH PROPERTY OWNER PRIOR TO CONSTRUCTION.

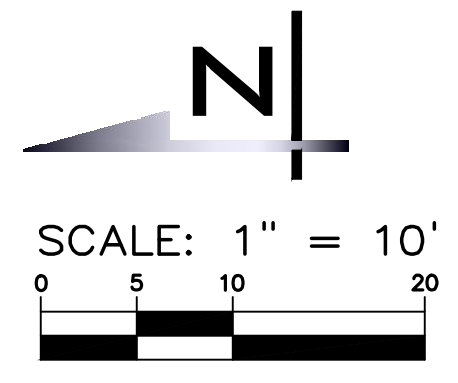
STA 29+74.09, 45.25' L
LOCATE PRESSURE RELIEF VENT BEHIND FUTURE SIDEWALK.

STA 29+73.83, 42.16' L
CONSTRUCT AIR-VAC ASSEMBLY PER SPWSD STD DETAILS. LOCATE BEHIND FUTURE SIDEWALK.

STA 29+72.89, 39.53' L
CONSTRUCT TYPE II BLOW OFF ASSEMBLY PER SPWSD STD DETAILS. LOCATE BEHIND FUTURE SIDEWALK.

PSE TO REMOVE EXISTING DOWNGUY AND INSTALL NEW DOWNGUY PRIOR TO CONSTRUCTION. COORDINATE WITH PSE PRIOR TO CONSTRUCTION.

EXISTING PRV STATION, SEE ABANDONMENT OF EXISTING UTILITES NOTE 7, SHEET 2



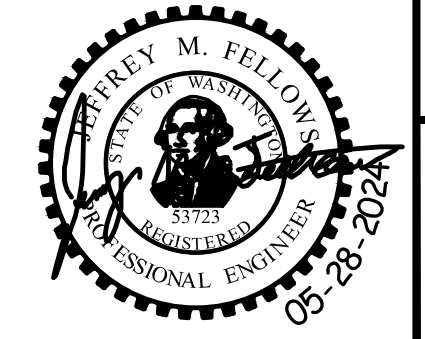
REVISIONS	BY	DATE

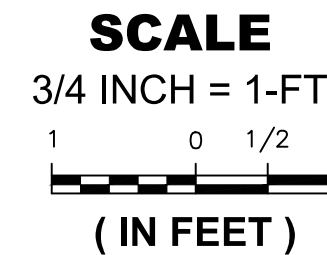
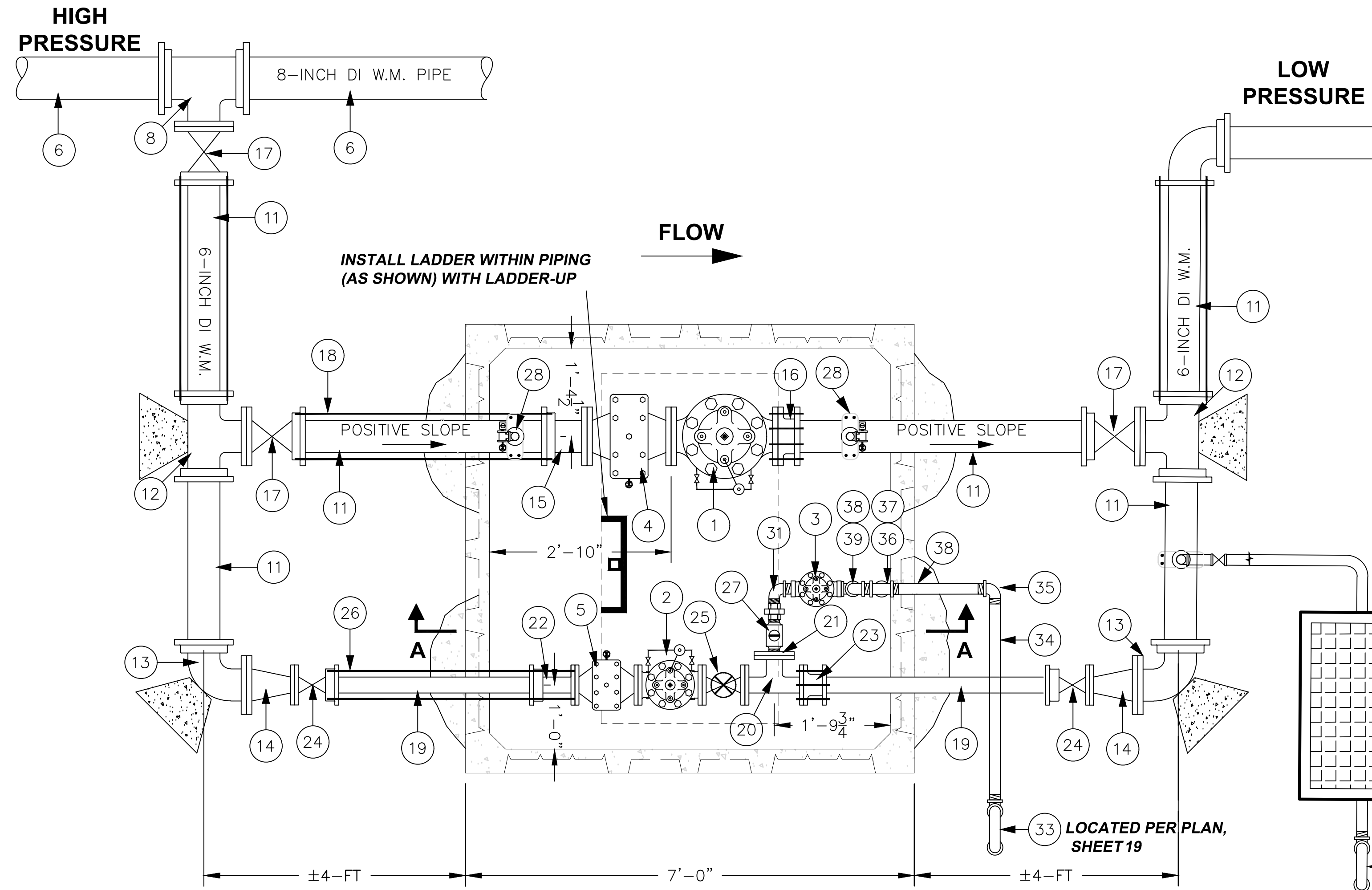
Sammamish Plateau Water
1510 228th Avenue SE, Sammamish, WA 98075
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LOUIS THOMPSON RD NE WATER MAIN REPLACEMENT PRV SITE PLAN & PROFILE

DATE: 05/2024
DRAWN: MM
CHECKED: JMF
JOB NO.: 95AM020100

SHEET
19
OF
22





MATERIAL LIST 6" PRV FOR 8" MAIN LINE

ITEM	DESCRIPTION	QUANTITY
1.	6" PRV CLA-VAL 90G-01BVYKC (SEE NOTE BELOW)	1
2.	3" PRV CLA-VAL WITH OPENING AND CLOSING FLOW CONTROL 90G-01BCLSVYKC W/ LEFT HAND PILOT SYSTEM (SEE NOTE BELOW)	1
3.	2" PRESSURE RELIEF VALVE CLA-VAL 50G-01BKC (SEE NOTE BELOW)	1
4.	6" CLA-VAL X43H STRAINER W/ 3/4" HOSE BIB AND BRASS BUSHING (STANDARD 10 MESH / 2000 MICRON / OPENINGS 0.078 INCH)	1
5.	3" CLA-VAL X43H STRAINER W/ 3/4" HOSE BIB AND BRASS BUSHING (STANDARD 10 MESH / 2000 MICRON / OPENINGS 0.078 INCH)	1
6.	8-INCH DI PIPE, CL.52 (LENGTH TO SUIT)	3
7.	8" x 6" TEE (FLG)	1
8.	8" x 6" TEE (MJ x FLG)	1
9.	8" FLG x MJ ADAPTOR	1
10.	8" GATE VALVE (FLG x MJ) WITH VALVE BOX	1
11.	6-INCH DI PIPE, CL.52 (LENGTH TO SUIT)	4
12.	6" TEE (MJ x FLG)	2
13.	6" 90° BEND (MJ x FLG)	2
14.	6" x 3" REDUCER (FLG)	2
15.	6" FLG x MJ ADAPTOR	1
16.	6" FCA	1
17.	6" GATE VALVE (FLG x MJ) WITH VALVE BOX	2
18.	TWO 5/8-INCH OR THREE 1/2-INCH SHACKLE RODS	1
19.	3-INCH DI PIPE, CL.52 (LENGTH TO SUIT)	2
20.	3" x 3" TEE (FLG)	1
21.	3" BLIND FLANGE WITH 2" TAP	1
22.	3" FLG x MJ ADAPTOR WITH ROMAC HARNESS LUGS	1
23.	3" FCA	1
24.	3" GATE VALVE (FLG x MJ) WITH VALVE BOX	2
25.	3" GATE VALVE (FLG) WITH HAND WHEEL	1
26.	TWO 3/8-INCH OR 1/2-INCH SHACKLE RODS WITH ROMAC HARNESS LUGS (EPOXY COATED)	1
27.	2" BRASS CORPORATION STOP, ROMAC MIP	1
28.	1" IPT SERVICE SADDLE, ROMAC 202S	2
	1" CORPORATION STOP, MIP x MIP	
	1" COUPLING, BRASS	
	1" x 3/4" BUSHING	
	3/4" HOSE BIB	
29.	DRAINNET TECHNOLOGIES DRAIN BACKFLOW PREVENTER MODEL FG-4F OR APPROVED EQUAL	1
30.	DISTRICT STANDARD 2" AIR AND VACUUM RELIEF VALVE ASSEMBLY	1
31.	2" MISC. BRASS FITTINGS:	1
	2" UNION	
	2" 90° STREET EL	
	2" NIPPLE, 3-INCH LENGTH	
32.	6" PIPE SADDLE SUPPORT GRINNELL 264	4
33.	2" RETURN BEND, SCH. 40 GALV. W/ BRASS BEEHIVE STRAINER GREENBURG P-24-08 MALE FOR 2" PIPE	1
34.	2" GALVANIZED SCH. 40 PIPE (LENGTH TO SUIT)	2
35.	2" GALVANIZED SCH. 40 90° STREET ELBOW	1
36.	2" x 3/4" TEE (BRASS)	1
37.	AUTOMATIC DRAIN VALVE - WEATHERMATIC 910	1
38.	2" BRASS PIPE (LENGTH TO SUIT)	3
39.	2" BRASS 90° STREET ELBOW	2
40.	2" BRASS UNION	1

PLAN VIEW

LOCATE PER PLAN, SHEET 3

GENERAL NOTES:

- ALL PIPE AND FITTINGS LESS THAN 3" DIAMETER SHALL BE BRASS, EXCEPT AS NOTED. ALL BOLTS INSIDE VAULT SHALL BE HOT DIPPED GALVANIZED.
- ALL WORK SHALL CONFORM TO DISTRICT STANDARDS. INSTALLATION OF BURIED VALVES, AIRVAC, BLOW-OFF AND THRUST BLOCKS SHALL BE IN ACCORDANCE WITH STANDARD NOTES AND DETAILS.
- THE FOLLOWING PROTECTIVE COATINGS SHALL BE APPLIED TO ALL INTERIOR PIPING:
 - 1 COAT OF RUST RESISTOR PRIMER RED #1013
 - 2 COATS OF INDUSTRIAL ENAMEL SAFETY BLUE
- ALL EXTERIOR PIPING INSTALLED ABOVE GRADE SHALL BE PAINTED WITH TWO COATS OF SAFETY YELLOW IN ACCORDANCE WITH DISTRICT STANDARDS.

VAULT REQUIREMENTS

- PRV VAULT SHALL BE A UTILITY VAULT, MODEL NUMBER 777-LA, WITH A 77-2-332P COVER.
- ACCESS HATCH SHALL BE A LW PRODUCTS MODEL NUMBER HS-3-D (36" x 60" SINGLE-LEAF DOOR, H-20 RATED, SPRING ASSISTED).
- VAULT SHALL HAVE A GALVANIZED STEEL LADDER WITH LADDER-UP LU-2.
- LADDER SHALL BE BOLTED TO THE COVER AND FLOOR OF VAULT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- VAULT SHALL HAVE A 4-INCH DIAMETER HOLE CAST IN SUMP AND GALVANIZED GRATING.
- PRVs SHALL BE INSTALLED DIRECTLY UNDER ACCESS HATCH AS SHOWN IN THE PLAN VIEW.
- EXTERIOR OF VAULT BELOW GRADE SHALL BE PAINTED WITH TWO COATS OF BLACK BITUMASTIC SOLUTION (9-13 MILS EACH COAT). VAULT SHALL BE DRY WITH NO MOISTURE PRESENT PRIOR TO APPLICATION OF COATINGS.

CONTROL VALVE REQUIREMENTS

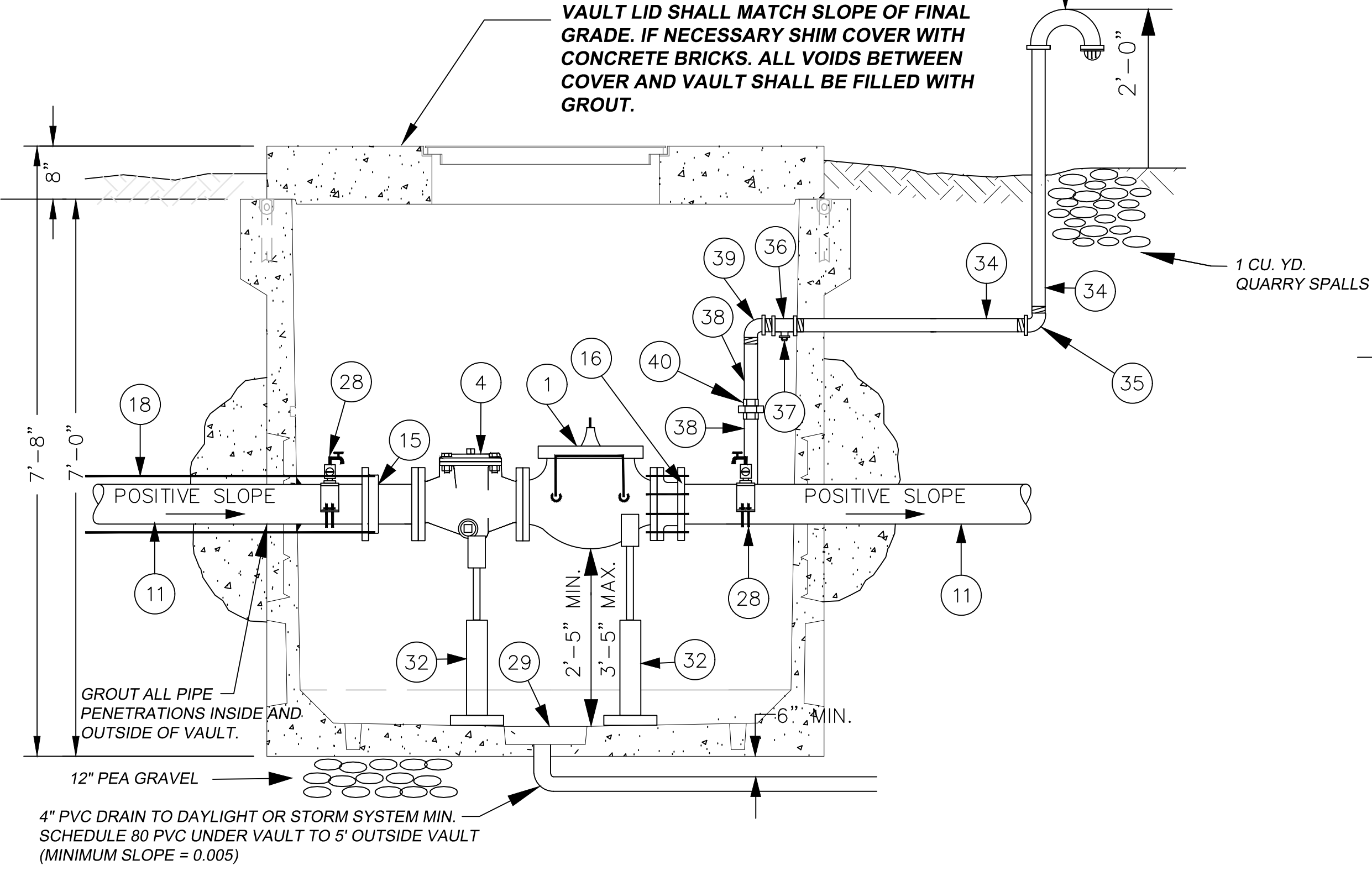
ALL CONTROL VALVES SHALL BE SUPPLIED WITH THE FOLLOWING PARTS AND FEATURES:

CONTROL VALVE SPECIFICATIONS	
VALVE PATTERN:	GLOBE
MAIN VALVE BODY AND COVER:	DUCTILE IRON ASTM A-536
MAIN VALVE TRIM:	STAINLESS STEEL
END DETAIL:	PRV
	PRESSURE RELIEF
	SCREWED
PRESSURE RATINGS:	150 CLASS @ 250 PSI MAX.
PRESSURE RELIEF SPRING RANGE:	20 TO 200 PSI
PILOTS SYSTEM	
PILOT SYSTEM MATERIALS:	BRONZE / STAINLESS STEEL
PILOT SPRING RANGE:	30 TO 300 PSI
RUBBER PARTS:	BUNA N SYNTHETIC RUBBER
TUBING & FITTINGS:	STAINLESS STEEL
FEATURES:	
STRAINERS	
PILOT SYSTEM SHUTOFF COCKS	
CV CONTROLS AS INDICATED IN MATERIAL LIST CALL OUT	
X101 VALVE POSITION INDICATOR	
EPOXY LINED	

PRESSURE SETTINGS

CONTRACTOR SHALL SET THE PRESSURE REDUCING VALVES IN ACCORDANCE WITH THE FOLLOWING SETTINGS. CONTRACTOR SHALL RECORD ALL PRESSURE SETTING AT COMPLETION OF INSTALLATION:

MAIN PRV SETTINGS: (6-INCH)	105 (PSI) INLET PRESSURE
	65 (PSI) OUTLET PRESSURE
BYPASS PRV SETTINGS: (3-INCH)	105 (PSI) INLET PRESSURE
	70 (PSI) OUTLET PRESSURE



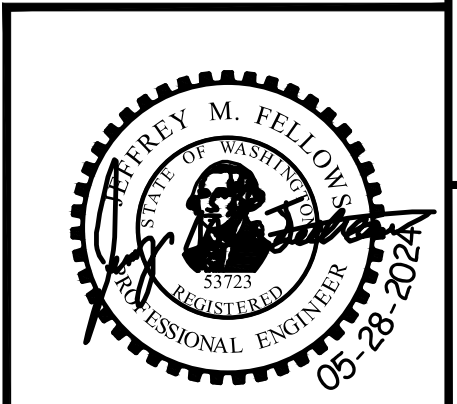
BY	DATE

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**LOUIS THOMPSON RD NE
 WATER MAIN REPLACEMENT
 PRV STATION DETAILS**

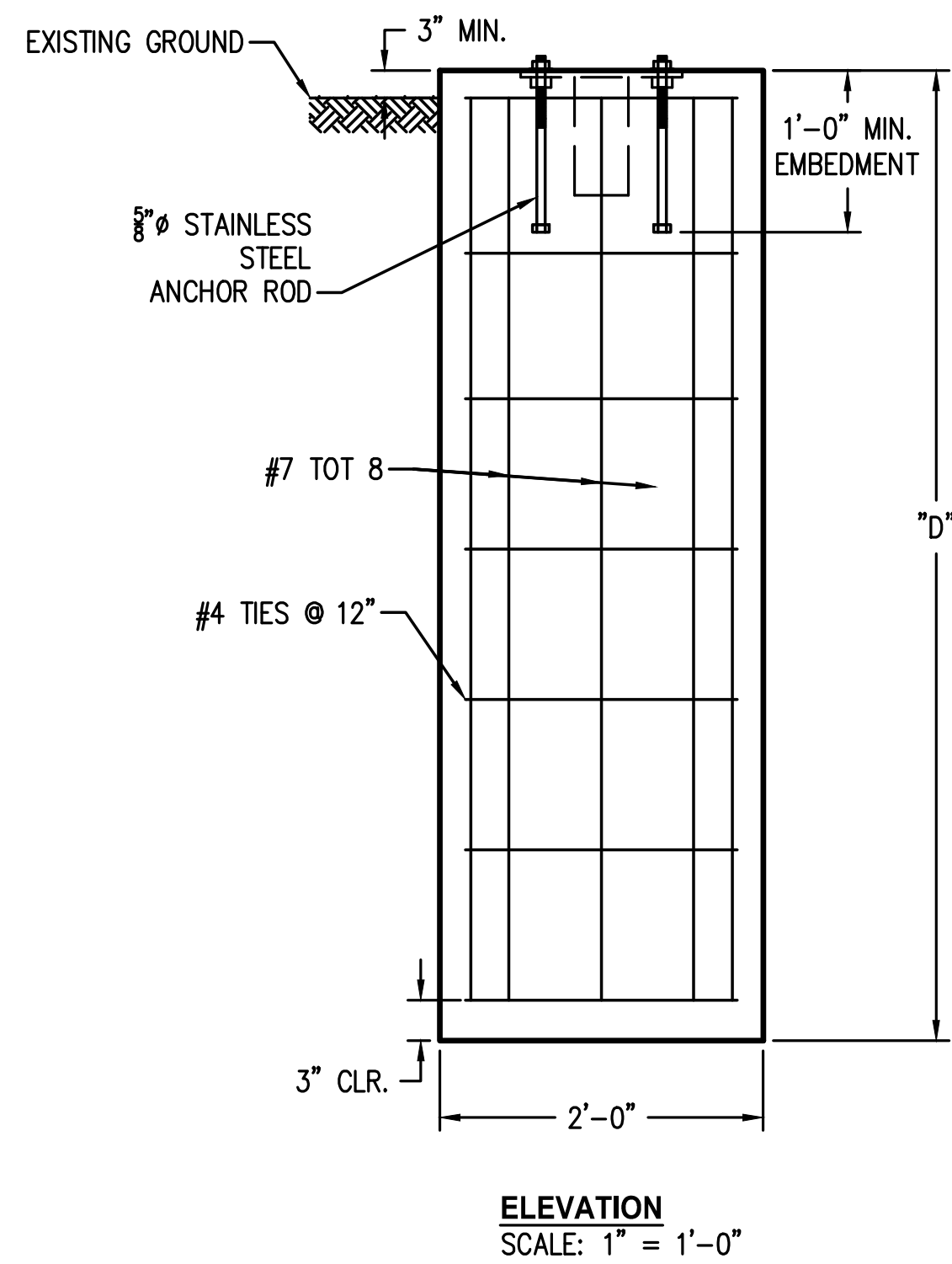
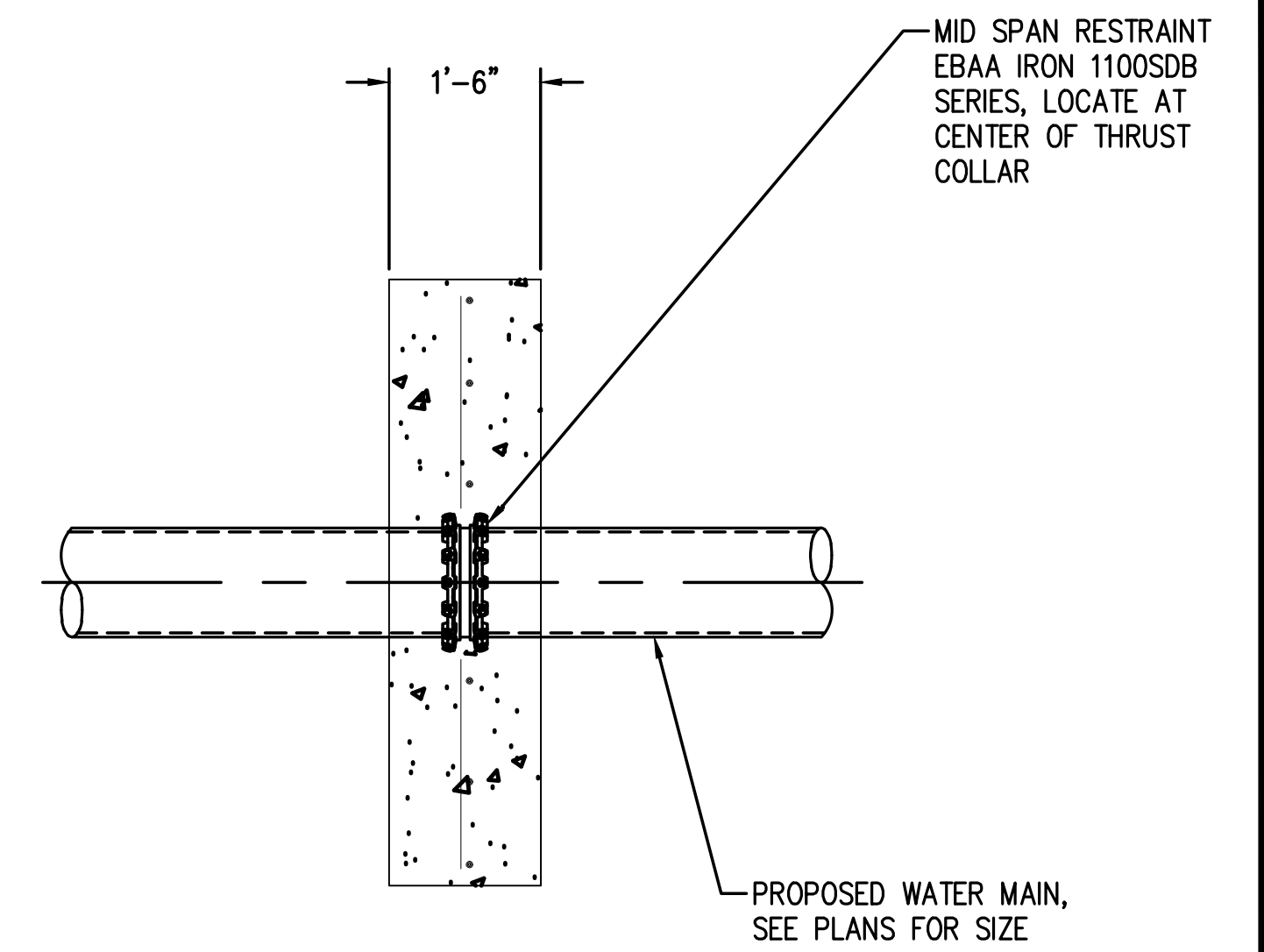
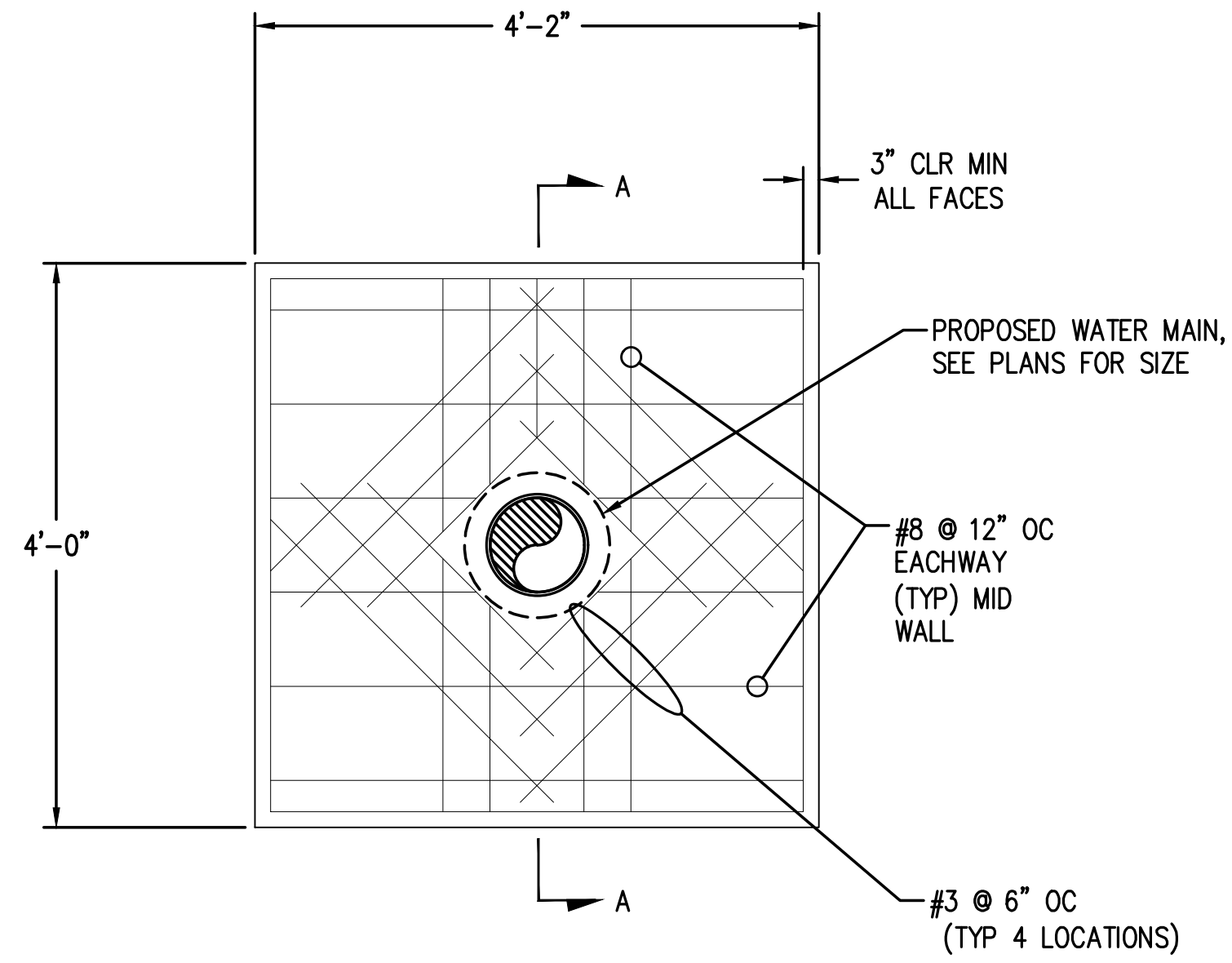
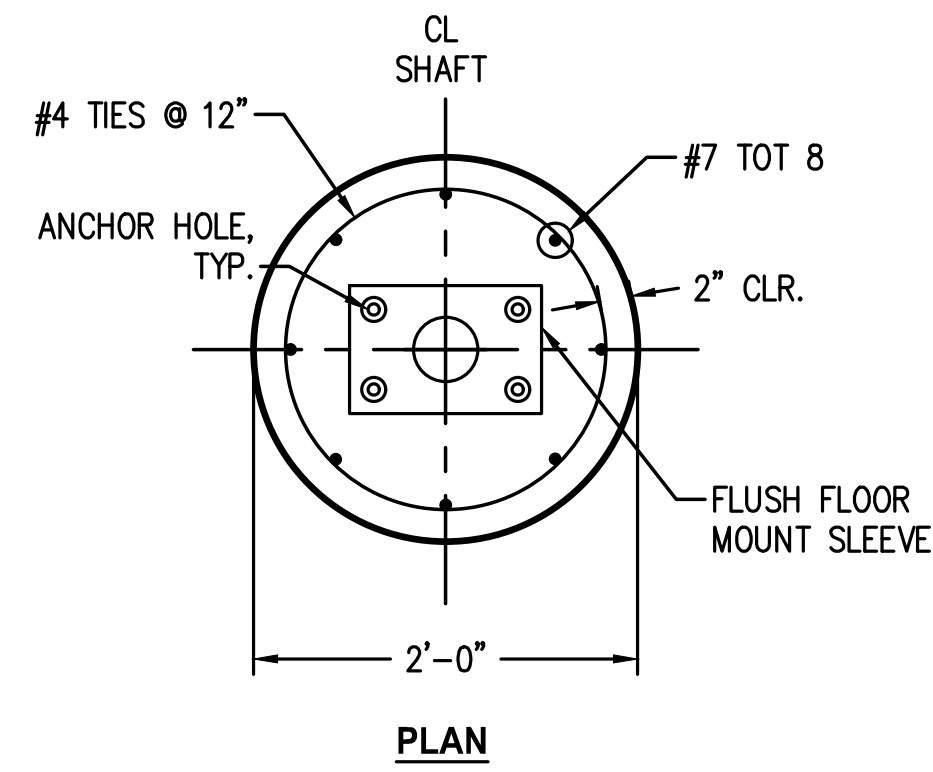
DATE: 05/2024
 DRAWN: MM
 CHECKED: JMF
 JOB NO.: 95AM020100

SHEET **20** OF **22**



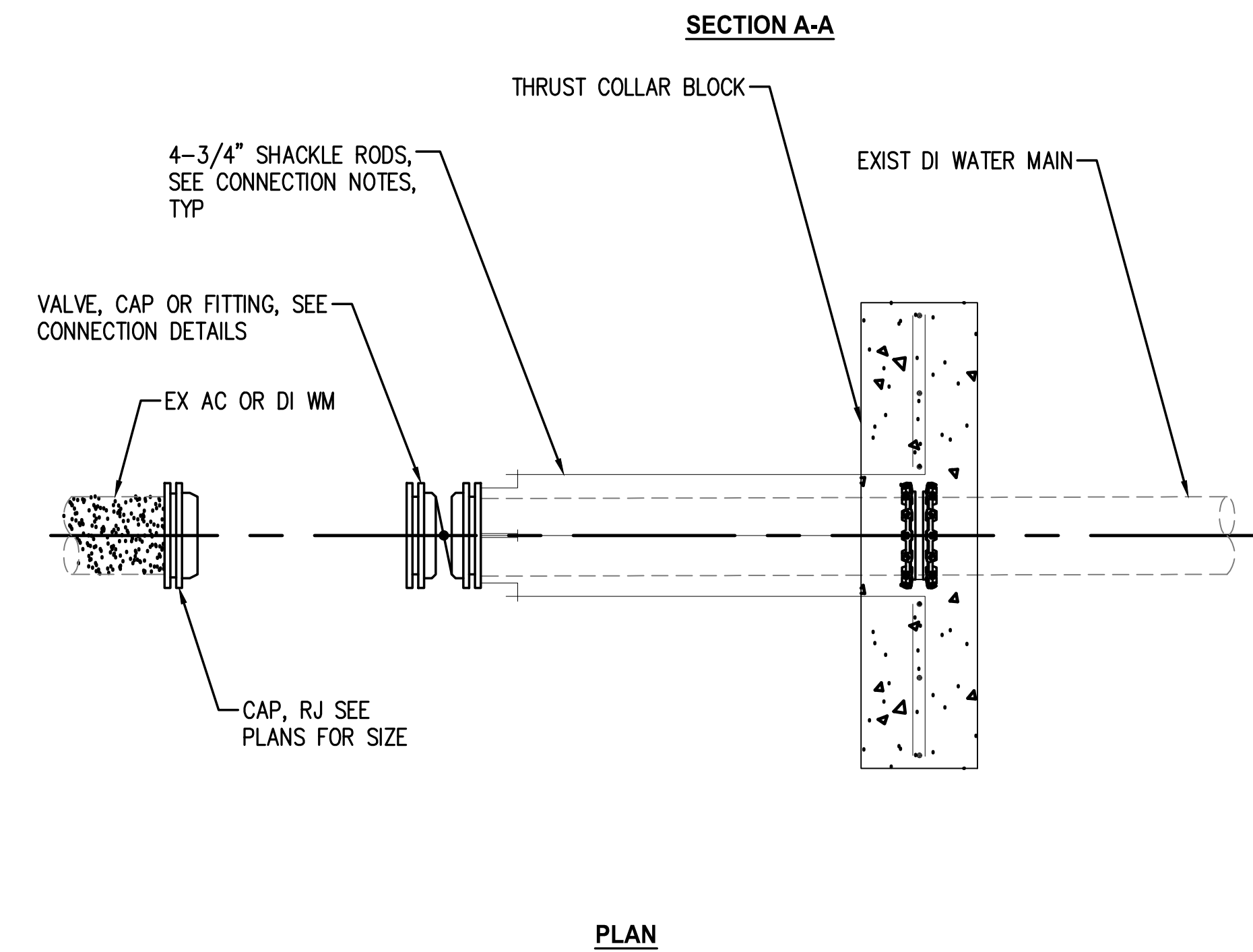
DAVIT SOCKET FOUNDATION NOTES:

- STRUCTURES HAVE BEEN DESIGNED BASED ON 2018 INTERNATIONAL BUILDING CODE (IBC) AND ACI 318-19 FOR STRUCTURAL CONCRETE.
- ALL CONCRETE SHALL BE CLASS 3000.
- ALL REINFORCING STEEL SHALL BE A615.
- ALL ANCHOR RODS SHALL BE A 316 STAINLESS STEEL.
- DESIGN STRESSES:
 - CONCRETE F'C: 3000 PSI
 - REINFORCING STEEL: 60,000 KSI
 - ANCHOR ROD FY: 36,000 PSI
- DESIGN LOADS
 - VERTICAL: 5,000 LBS
 - MOMENT: 90,000IN-LBS
- FLUSH FLOOR SLEEVE SHALL BE MILLER DH-20SS OR APPROVED EQUAL.



COLLAR THRUST BLOCK NOTES:

- CENTER COLLAR THRUST BLOCK ON PIPE.
- THRUST BLOCK TO BE POURED AGAINST UNDISTURBED EARTH (ALL SIDES); IF NOT POSSIBLE, THE SOIL BETWEEN THE BEARING SURFACE AND UNDISTURBED EARTH SHALL BE COMPACTED TO 95% MODIFIED PROCTOR.
- REBAR TO BE ASTM A615, GR 60.
- CONCRETE SHALL BE HIGH EARLY STRENGTH CONCRETE AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 24 HOURS.
- SHACKLE RODS NOT SHOWN, SEE CONNECTION DETAIL THIS SHEET. SHACKLE RODS TO BE INSTALLED IN COLLAR THRUST BLOCK PRIOR TO CONCRETE POUR.
- SHACKLE RODS SHALL BE 3/4-INCH DIAMETER COR-TEN ASTM A242, 4 EQUALLY SPACED PER BLOCK, COATED WITH TWO COATS OF COAL TAR EPOXY.
- ATTACH SHACKLE RODS TO FITTINGS WITH THE BOLTS, EQUAL TO STAR NATIONAL PRODUCTS.



USCS* SOIL TYPE	LATERAL BEARING PRESSURE (PSF/FT)**	REQUIRED EMBEDMENT LENGTH "D"
GW, GP	200	5'-0"
SW, SP, SM, SC, GM, GC	150	5'-6"
CL, ML, MH, CH	100	6'-0"

*USCS = UNIFIED SOIL CLASSIFICATION SYSTEM

**LATERAL BEARING PRESSURES AS SPECIFIED IN IBC 2018, TABLE 1806.2

DAVIT SOCKET FOUNDATION
SCALE: NTS

COLLAR THRUST BLOCK
SCALE: NTS

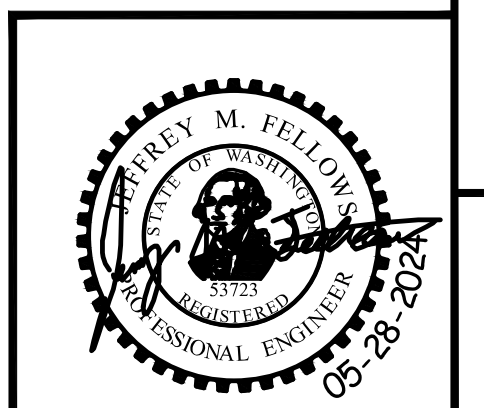
REVISIONS	BY	DATE

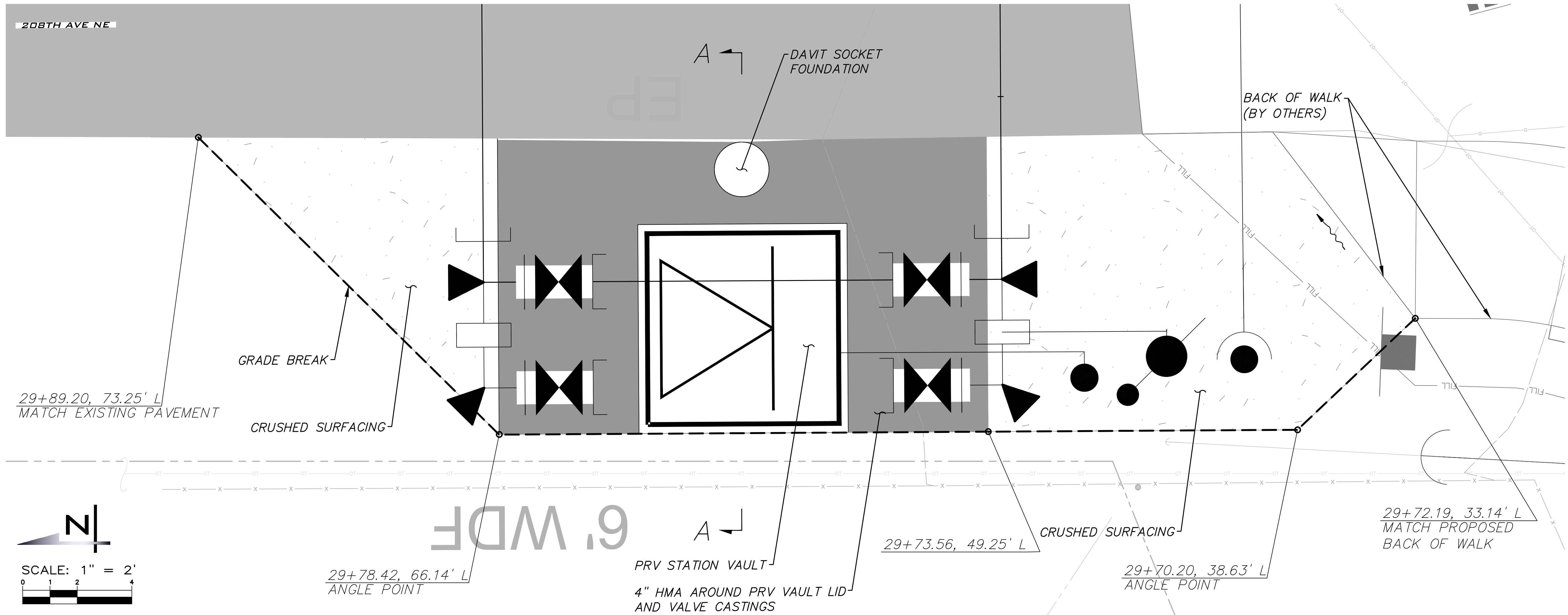
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**LOUIS THOMPSON RD NE
WATER MAIN REPLACEMENT
DETAILS**

DATE: 05/2024
DRAWN: MM
CHECKED: JMF
JOB NO: 95AM020100

SHEET
21
OF
22





29+89.20, 73.25' L
MATCH EXISTING PAVEMENT

GRADE BREAK

CRUSHED SURFACING

29+78.42, 66.14' L
ANGLE POINT

PRV STATION VAULT

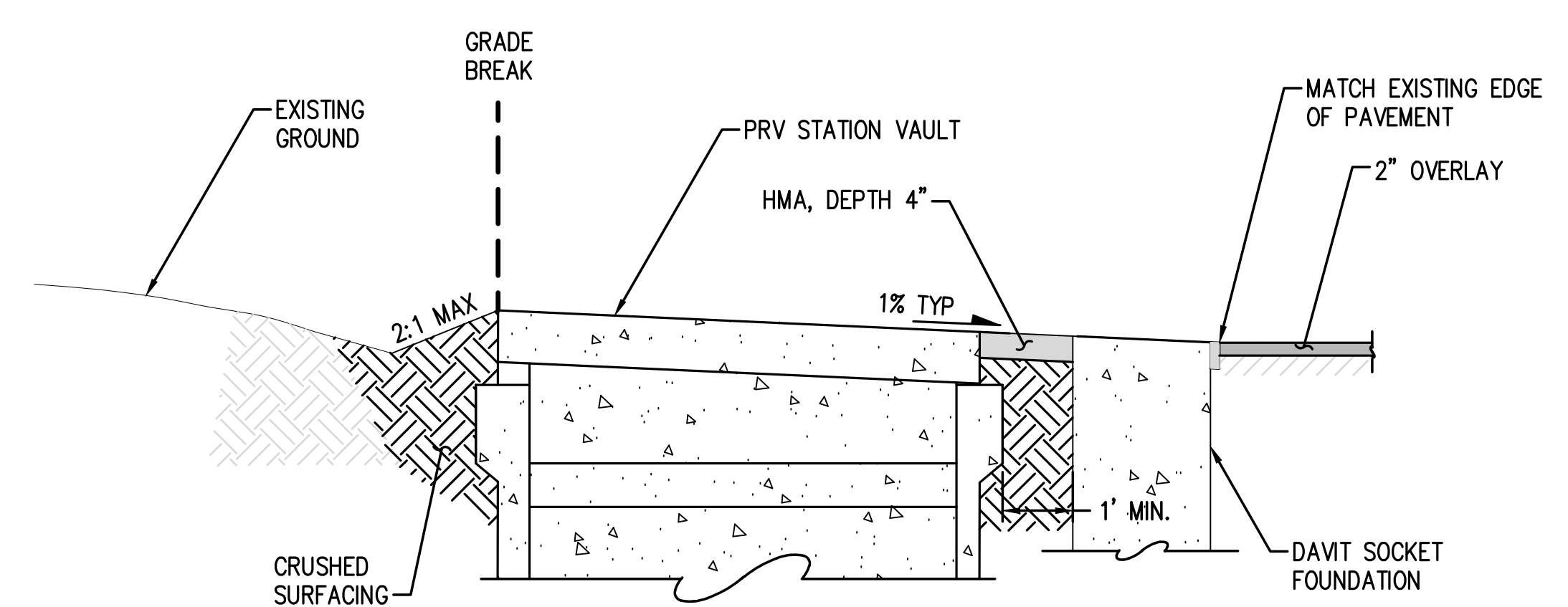
4" HMA AROUND PRV VAULT LID AND VALVE CASTINGS

29+73.56, 49.25' L

CRUSHED SURFACING

29+70.20, 38.63' L
ANGLE POINT

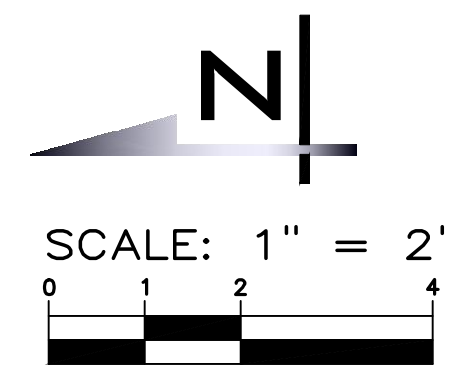
29+72.19, 33.14' L
MATCH PROPOSED
BACK OF WALK



SECTION A-A

PRV STATION SITE GRADING DETAIL

208TH AVE NE



REVISIONS	BY	DATE

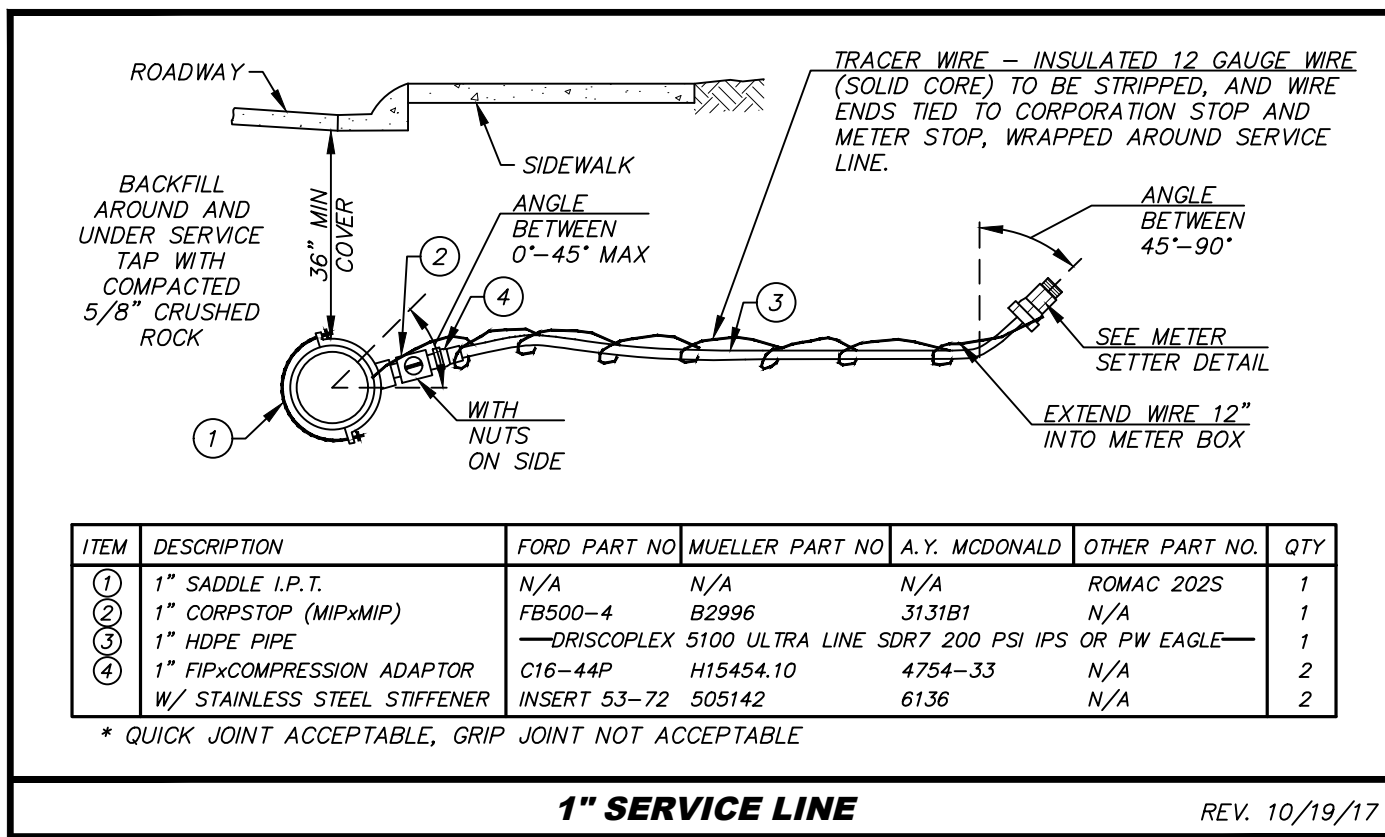
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**LOUIS THOMPSON RD NE
 WATER MAIN REPLACEMENT
 DETAILS**

DATE: 05/2024
 DRAWN: MM
 CHECKED: JMF
 JOB NO: 9SAM020100

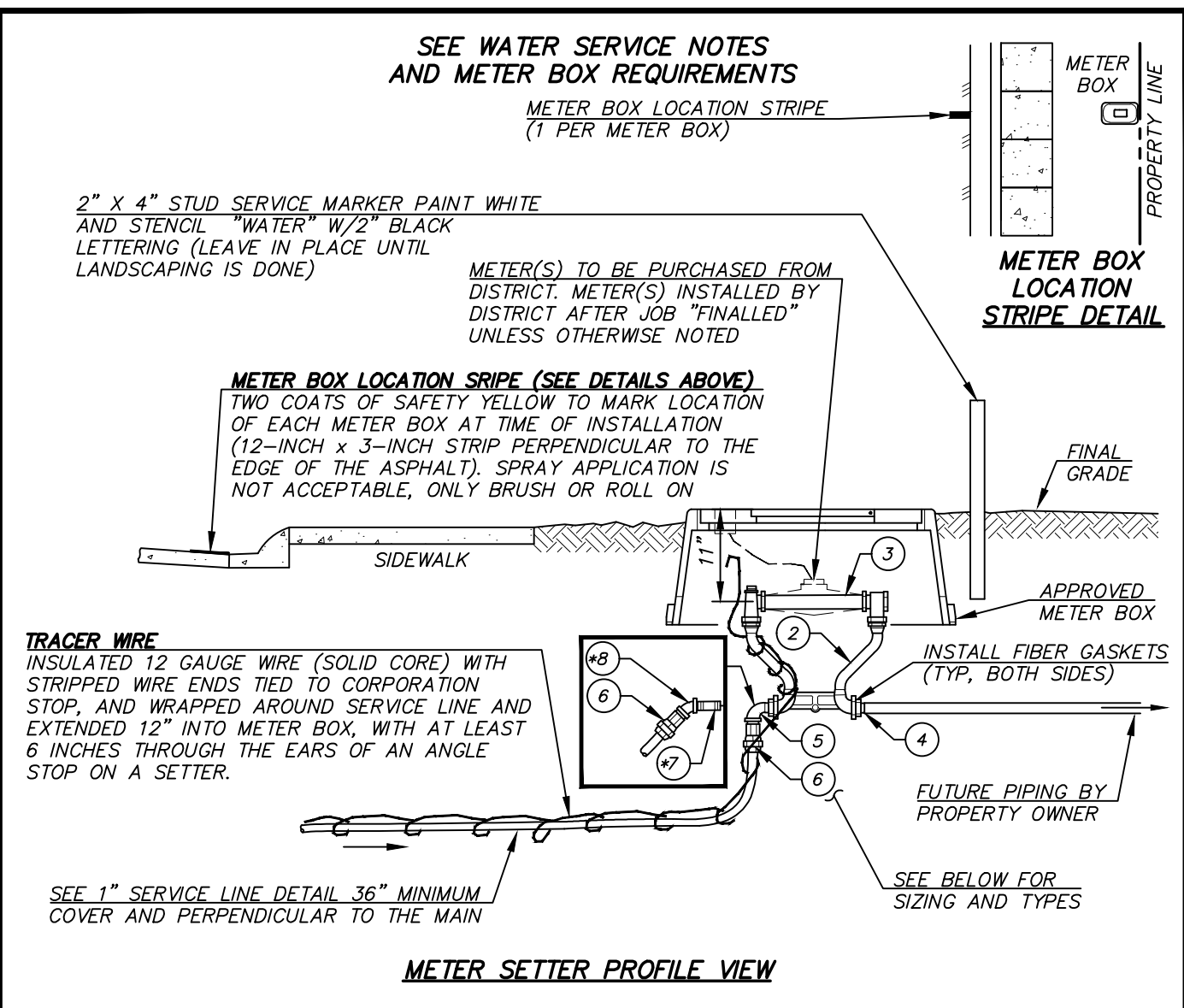
SHEET
22
 OF
22





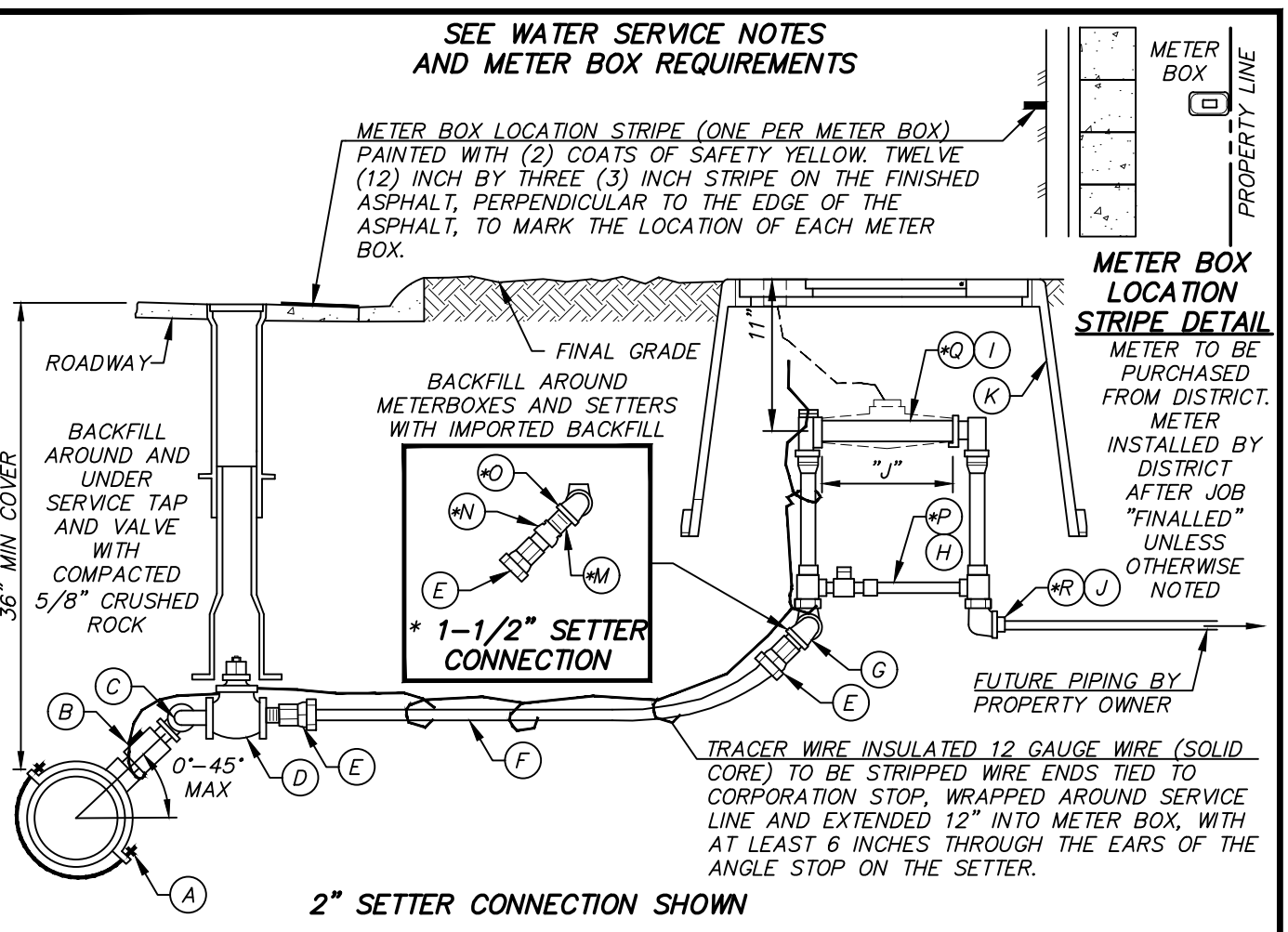
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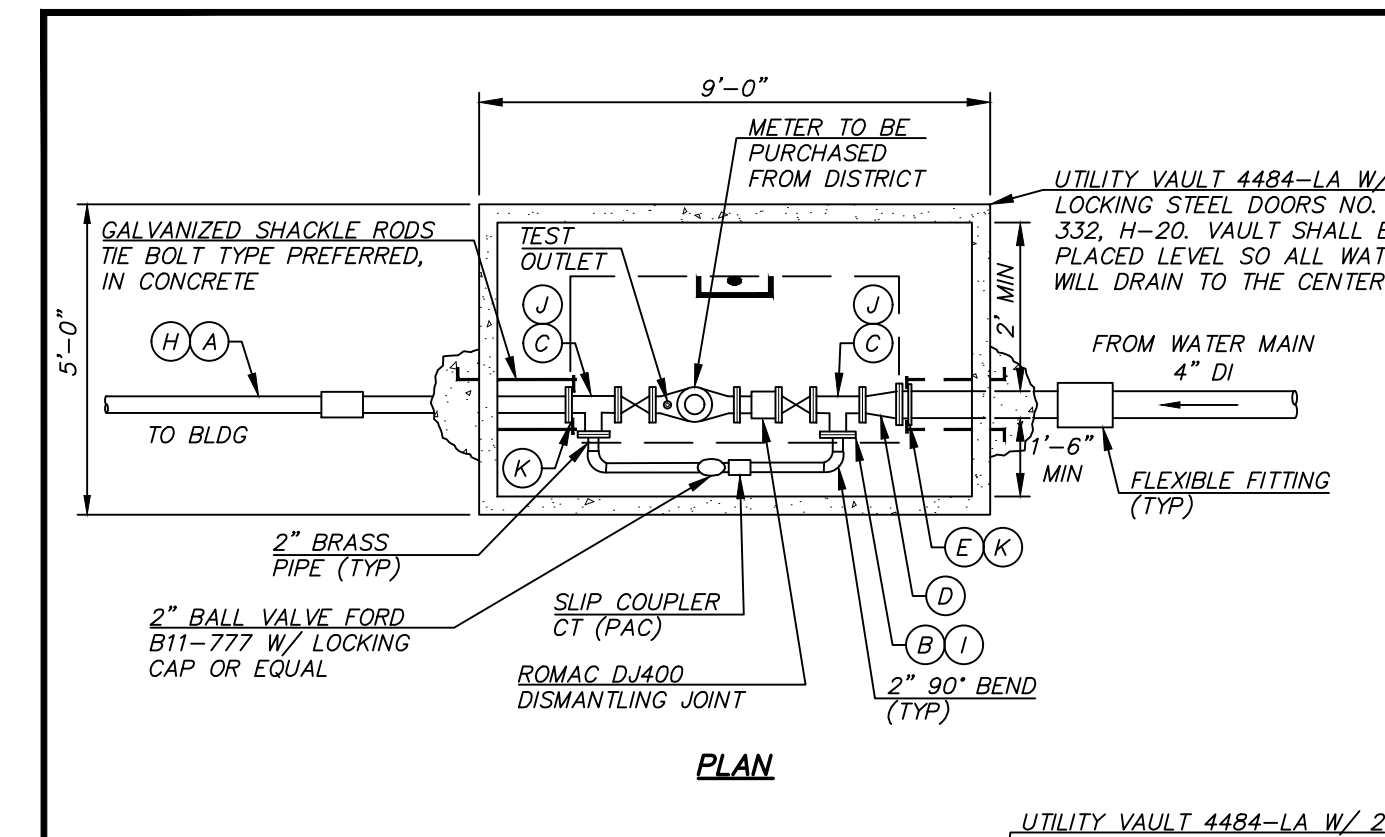
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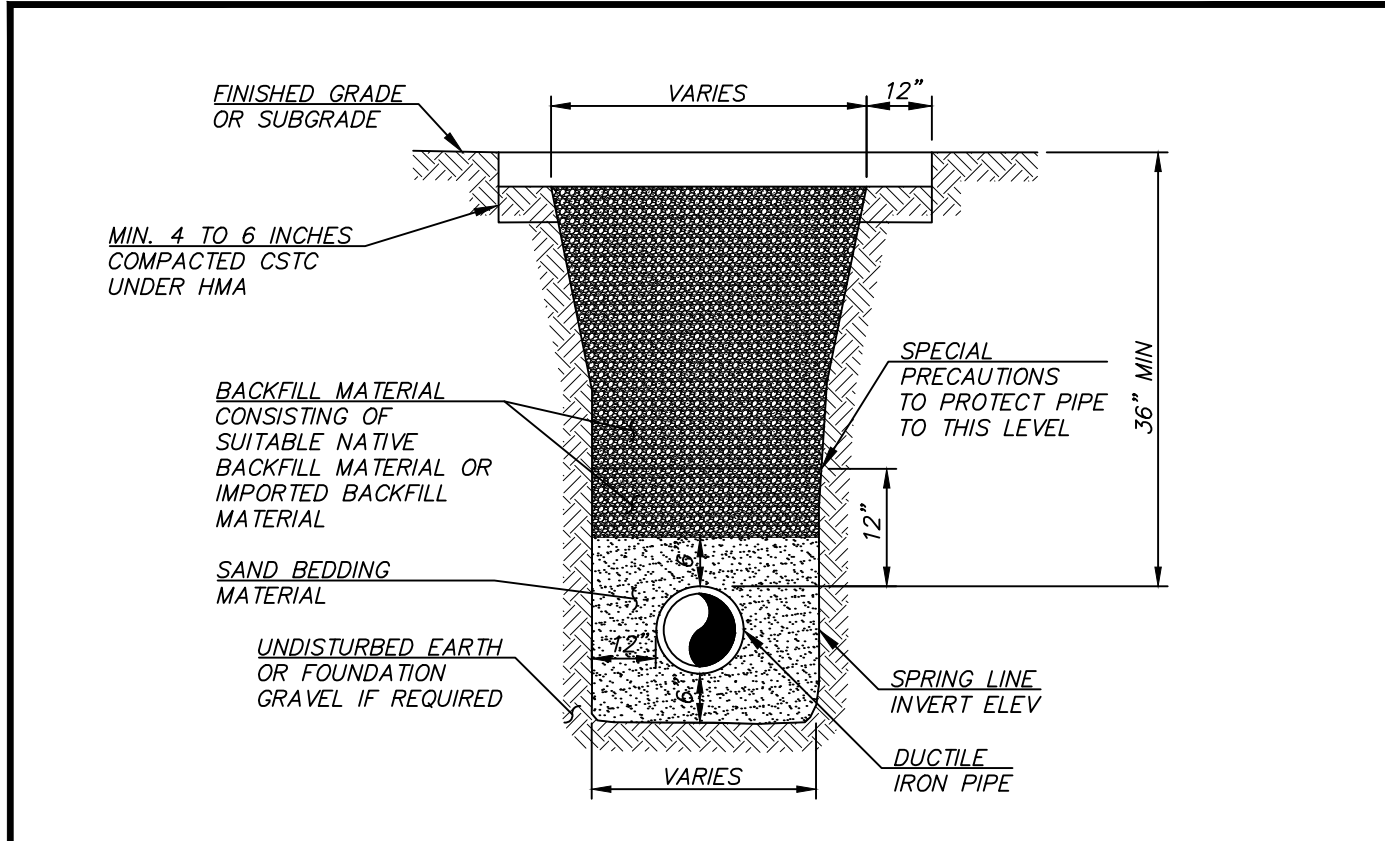
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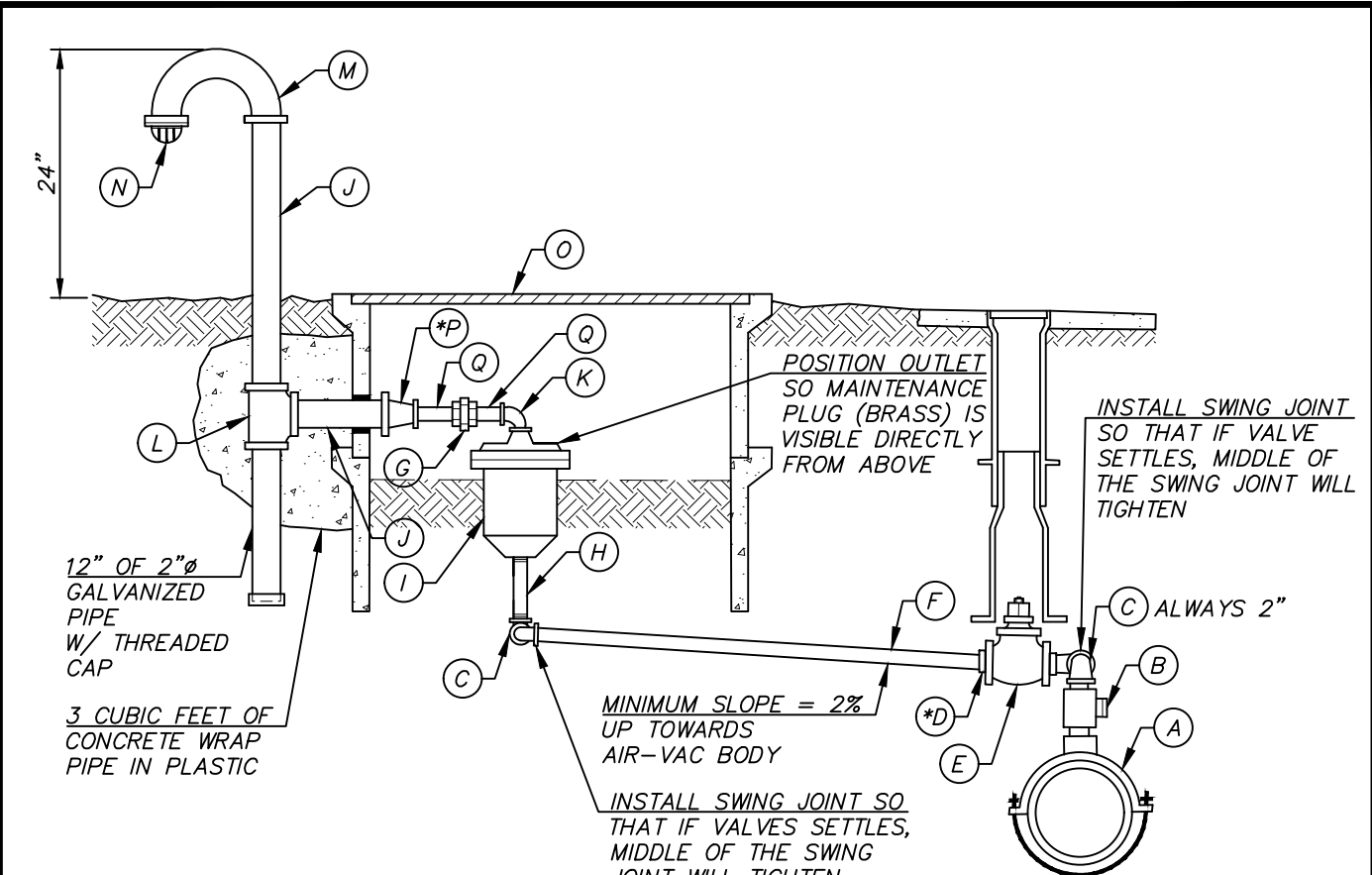
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WATER MAIN TRENCH SECTION

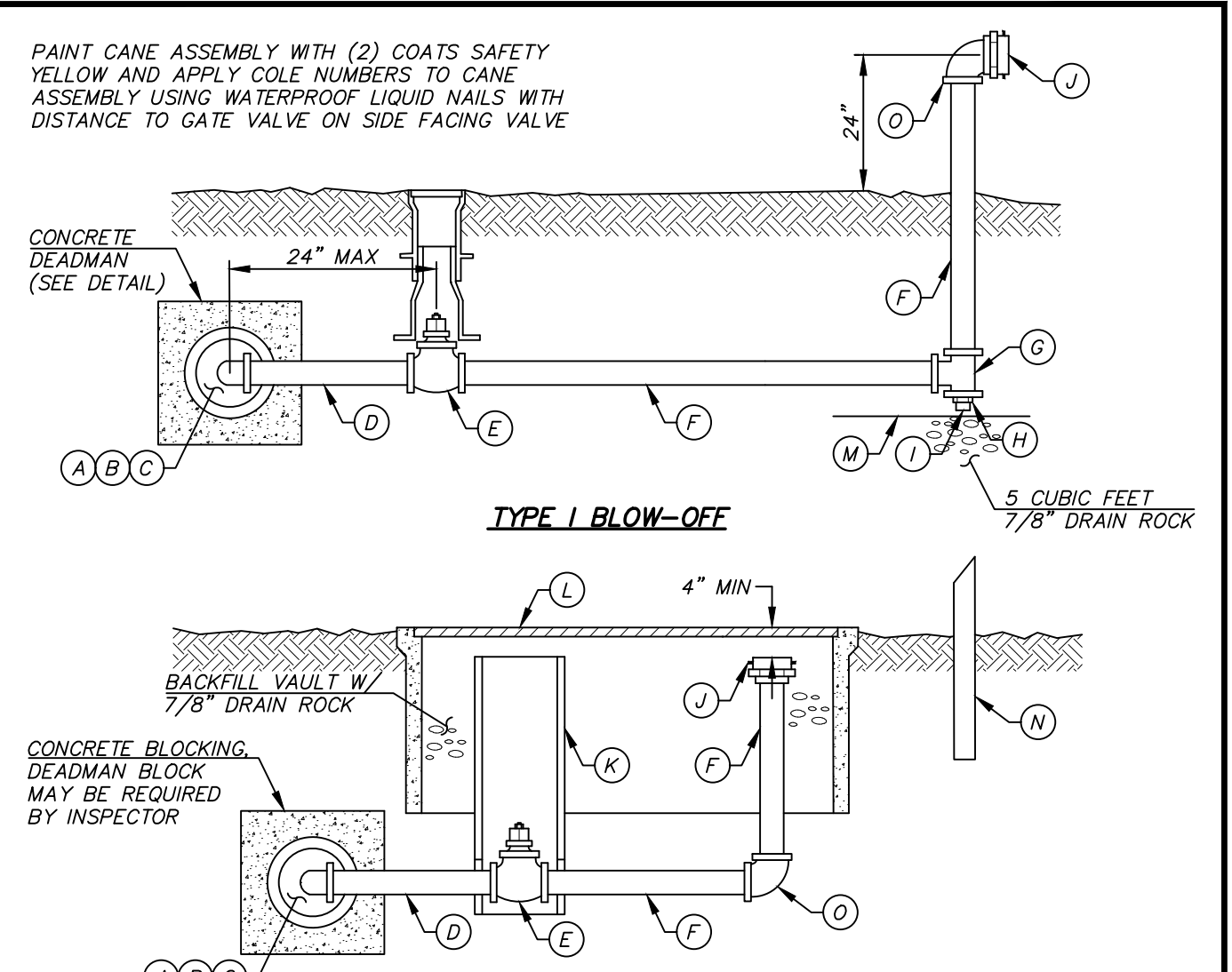
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①	3\"/>					
②	3\"/>					
③	3\"/>					
④	3\"/>					
⑤	3\"/>					
⑥	3\"/>					
⑦	3\"/>					
⑧	3\"/>					
⑨	3\"/>					

3\"/>



1\"/>

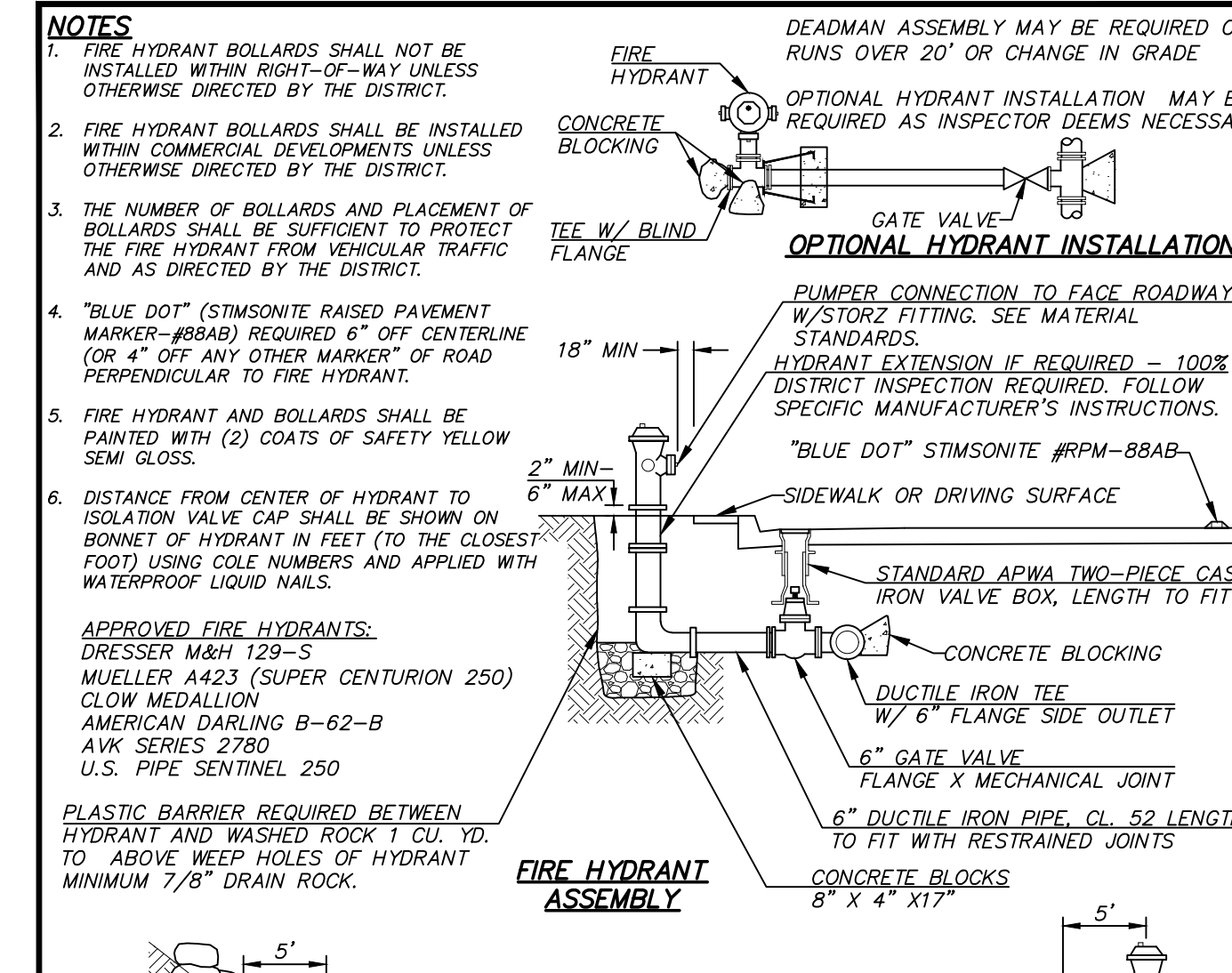
1\"/>



TYPE I AND II BLOW-OFF ASSEMBLY

ITEM	TYPE I QTY	TYPE II QTY	DESCRIPTION
A	1	1	CAP W/ 2\"/>
B	1	1	2\"/>
C	1	1	2\"/>
D	1	1	2\"/>
E	1	1	2\"/>
F	1	1	2\"/>
G	1	0	2\"/>
H	1	0	2\"/>
I	1	0	2\"/>
J	1	0	2\"/>
K	0	1	2\"/>
L	0	1	2\"/>
M	0	1	2\"/>
N	0	1	2\"/>
O	0	1	2\"/>

TYPE I AND II BLOW-OFF ASSEMBLY



FIRE HYDRANT ASSEMBLY

ITEM	DESCRIPTION	FORD PART NO	MUELLER PART NO	A.Y. MCDONALD	OTHER PART NO	QTY
A	3\"/>					
B	3\"/>					
C	3\"/>					
D	3\"/>					
E	3\"/>					
F	3\"/>					
G	3\"/>					
H	3\"/>					
I	3\"/>					
J	3\"/>					
K	3\"/>					
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Q	3\"/>					
R	3\"/>					
S	3\"/>					
T	3\"/>					
U	3\"/>					
V	3\"/>					
W	3\"/>					
X	3\"/>					
Y	3\"/>					
Z	3\"/>					

FIRE HYDRANT ASSEMBLY

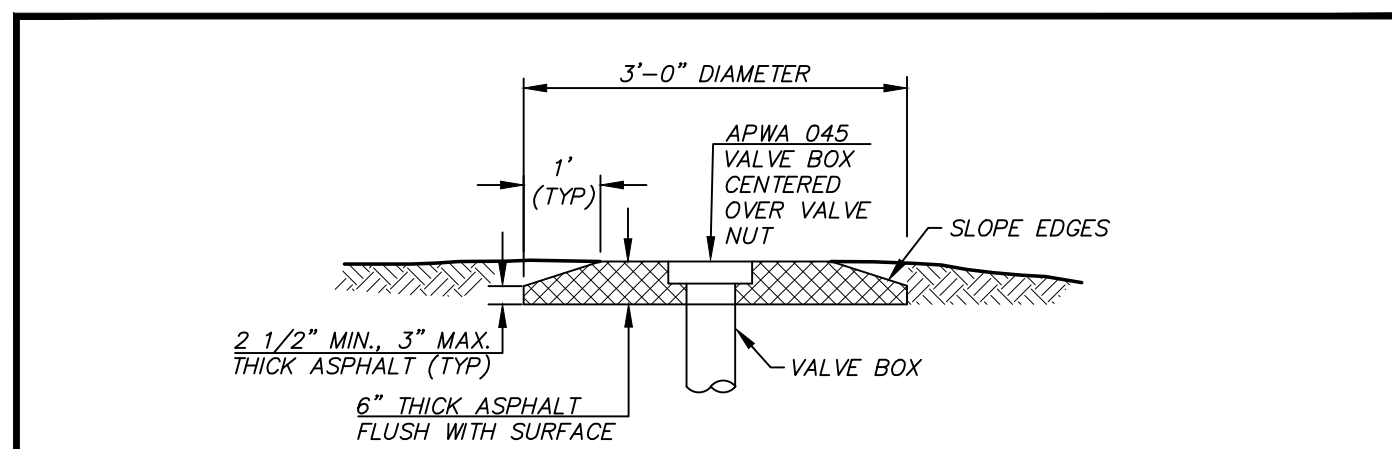
BY DATE

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STANDARD DETAILS

DATE: 10/24/2017
 DRAWN: JTF
 CHECKED: NONE
 JOB NO.

SHEET 1 OF 2

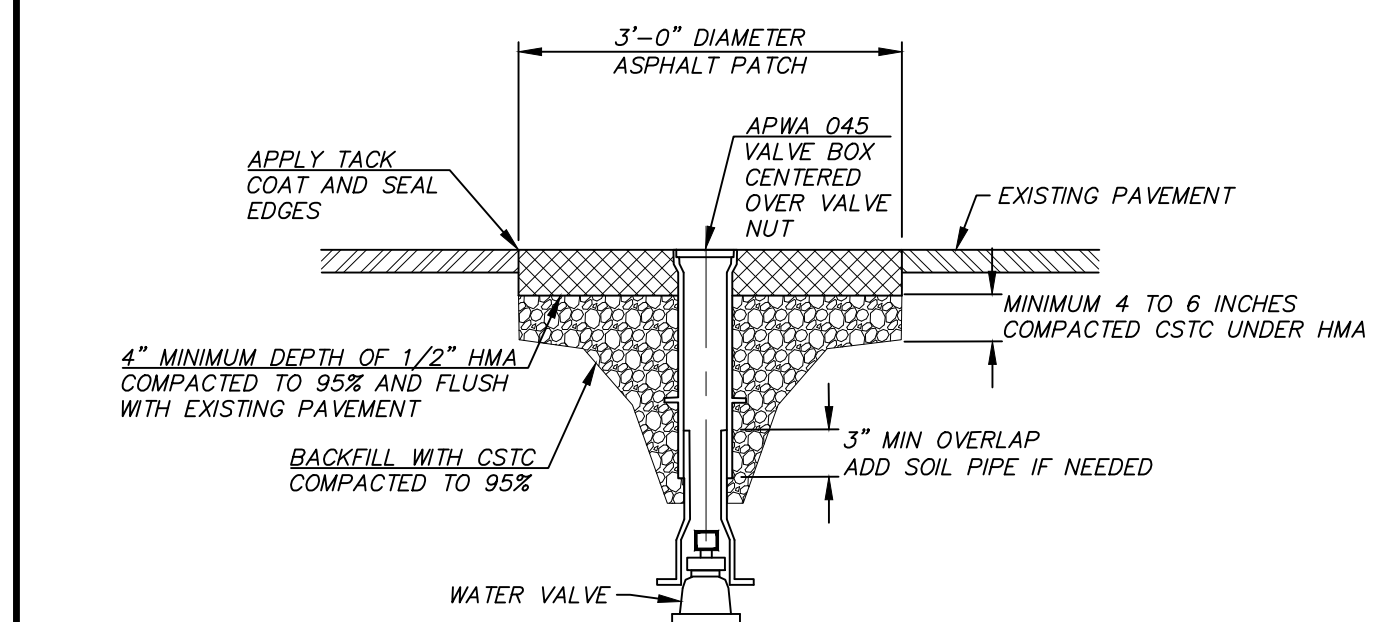


NOTES

1. THE COMPLETED PATCH SHALL BE FLUSH WITH THE SURROUNDING FINAL GRADE, SHALL NOT BE MORE THAN 1/8" FLUSH WITH THE SURROUNDING PAVEMENT, AND SHALL BE SMOOTH FOR TRAFFIC.
2. WHEN RAISING THE VALVE BOX TO FINISHED GRADE, EXCAVATE CASTING TO A DEPTH NECESSARY TO VERIFY CASTING OVERLAPS SOIL PIPE BY 3". ADD SOIL PIPE AS NEEDED. VALVE BOX SHALL BE CENTERED OVER THE VALVE NUT.
3. SLIP CANS ARE NOT ALLOWED WHEN RAISING VALVE BOXES TO GRADE.

VALVE BOX ASPHALT COLLAR DETAIL FOR NON-PAVED AREAS

REV. 10/20/17

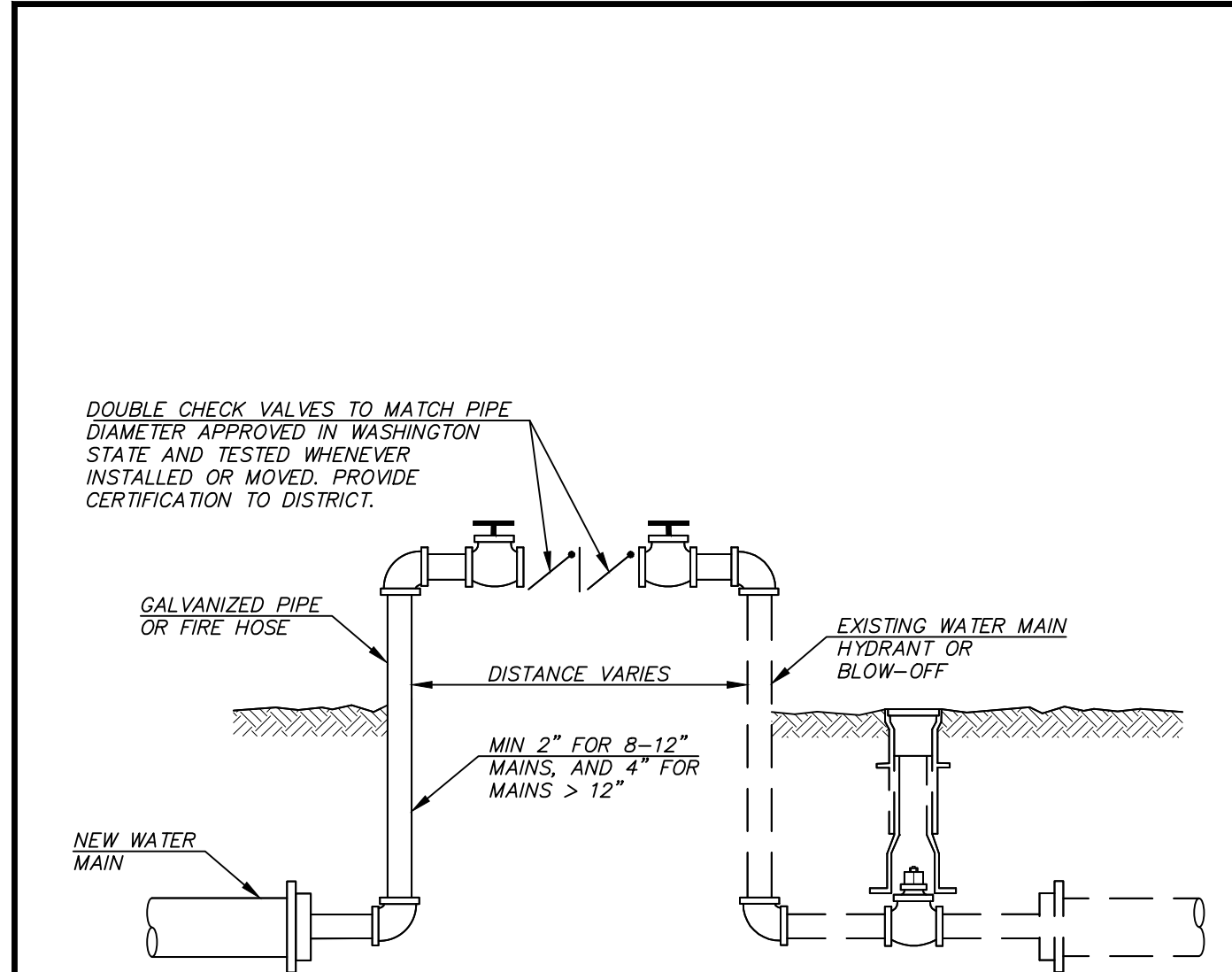


NOTES

1. VALVE CANS SHALL BE RAISED TO GRADE AFTER PLACEMENT OF THE ASPHALT'S FINAL LIFT AND WITHIN 48 HOURS UNLESS OTHERWISE APPROVED BY THE DISTRICT.
2. NEATLY REMOVE ASPHALT AROUND EXISTING VALVE CASTING.
3. EXCAVATE VALVE CASTING TO A DEPTH NECESSARY TO RAISE CASTING AND VERIFY CASTING OVERLAPS SOIL PIPE BY 3". ADD SOIL PIPE AS NEEDED. VALVE BOX SHALL BE CENTERED OVER THE VALVE NUT.
4. SLIP CANS ARE NOT ALLOWED.
5. BACKFILL WITH CSTC COMPACTED TO 95% (MODIFIED PROCTOR).
6. INSTALL 1/2" HMA IN 2-INCH LIFTS, TO A COMPACTED DEPTH EQUAL TO THE EXISTING PAVEMENT OR A MINIMUM OF 4", WHICHEVER IS GREATER. TACK ALL EDGES AND SEAL FINISH JOINTS WITH TAR AND SAND.
7. THE COMPLETED PATCH SHALL BE FLUSH WITH THE SURROUNDING PAVEMENT, SHALL NOT VARY FROM BEING FLUSH BY MORE THAN 1/8", AND SHALL BE SMOOTH FOR TRAFFIC.

VALVE BOX PAVEMENT PATCH DETAIL AND PAVED AREAS

REV. 10/20/17

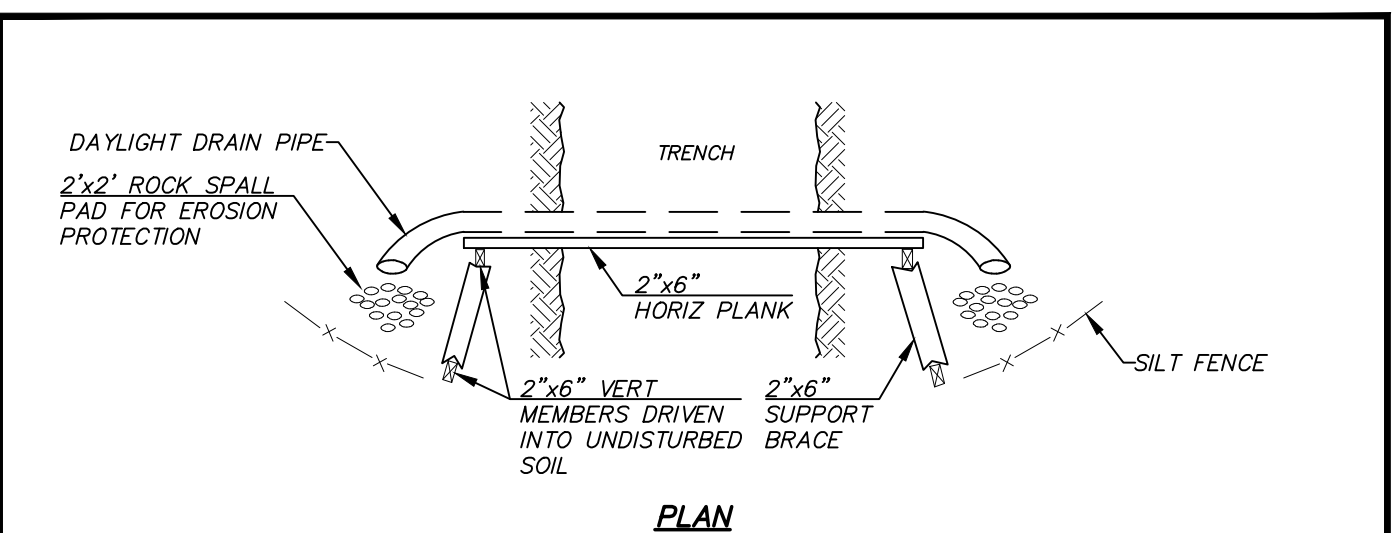


NOTES

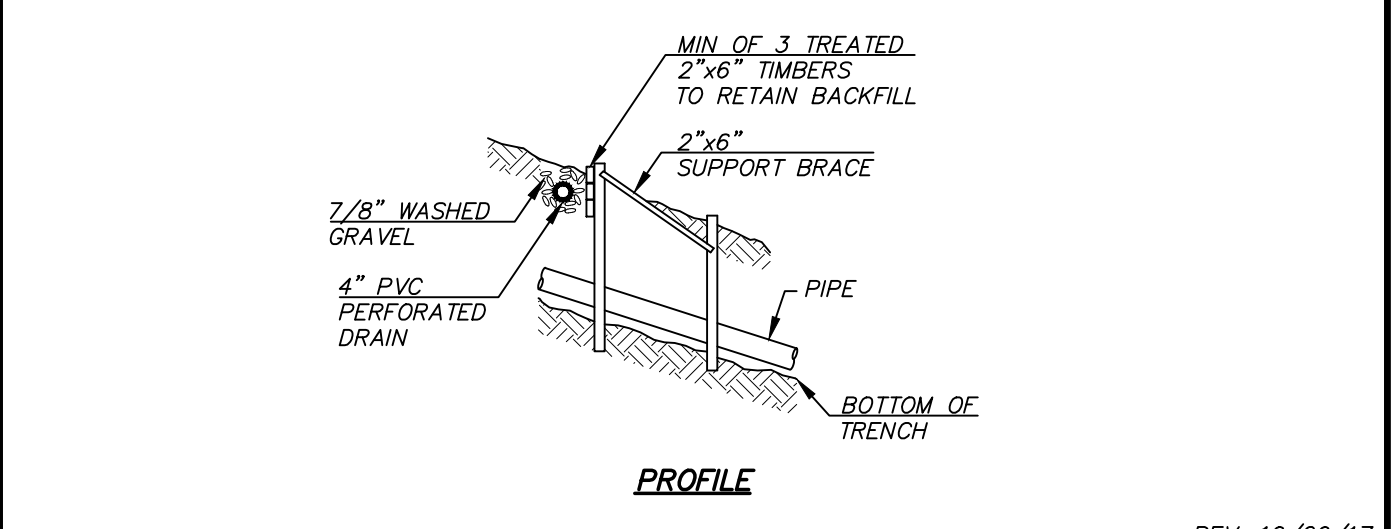
1. FOR BELOW GROUND INSTALLATION, USE TYPE II BLOW-OFF ASSEMBLY, MODIFIED AS REQUIRED BY DISTRICT. INSTALL IN AREA NOT SUBJECT TO FLOODING.
2. ALL FILLING AND FLUSHING SHALL BE METERED BY DISTRICT. PROVIDE SPACE FOR INSTALLATION OF METER.
3. ALL NEW MAINS SHALL BE KEPT SEPARATE FROM THE DISTRICT'S EXISTING SYSTEM UNTIL THE NEW MAINS ARE TESTED AND ACCEPTED. FINAL CONNECTION REQUIRES 100% INSPECTION BY DISTRICT.
4. PROTECT ABOVE GROUND INSTALLATION FROM DAMAGE AND FREEZING.

TESTING CONNECTION

REV. 10/18/17

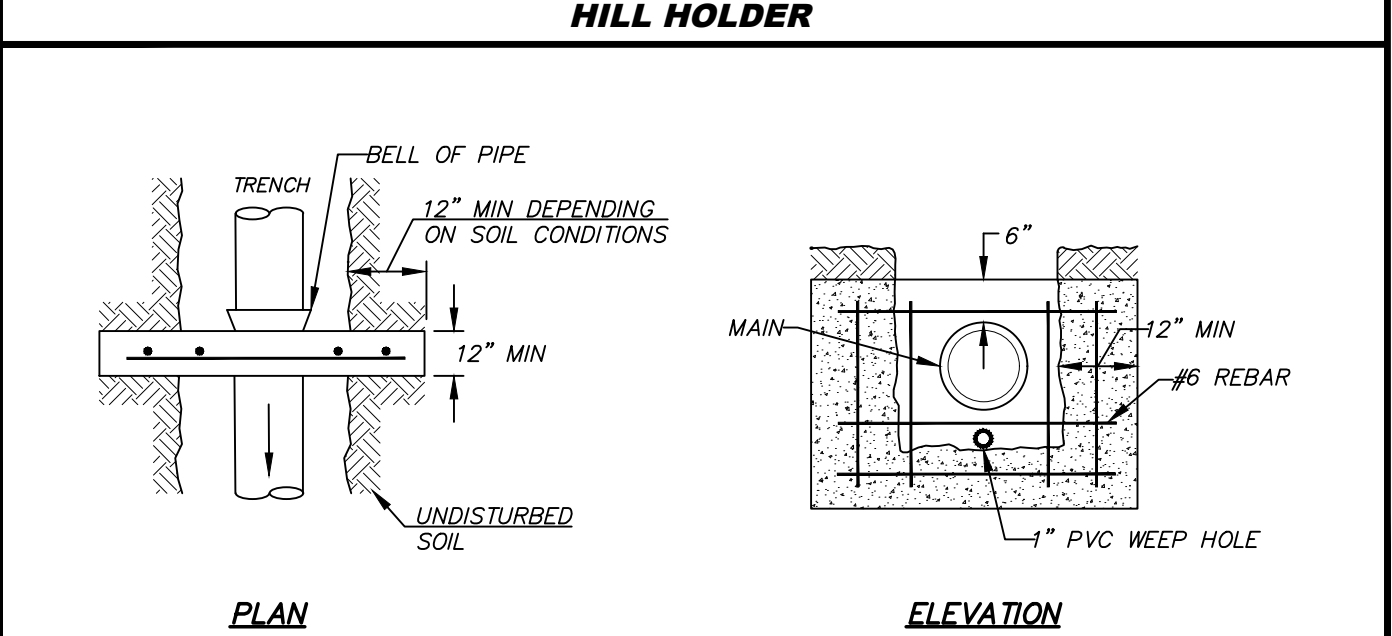


PLAN



PROFILE

REV. 10/20/17

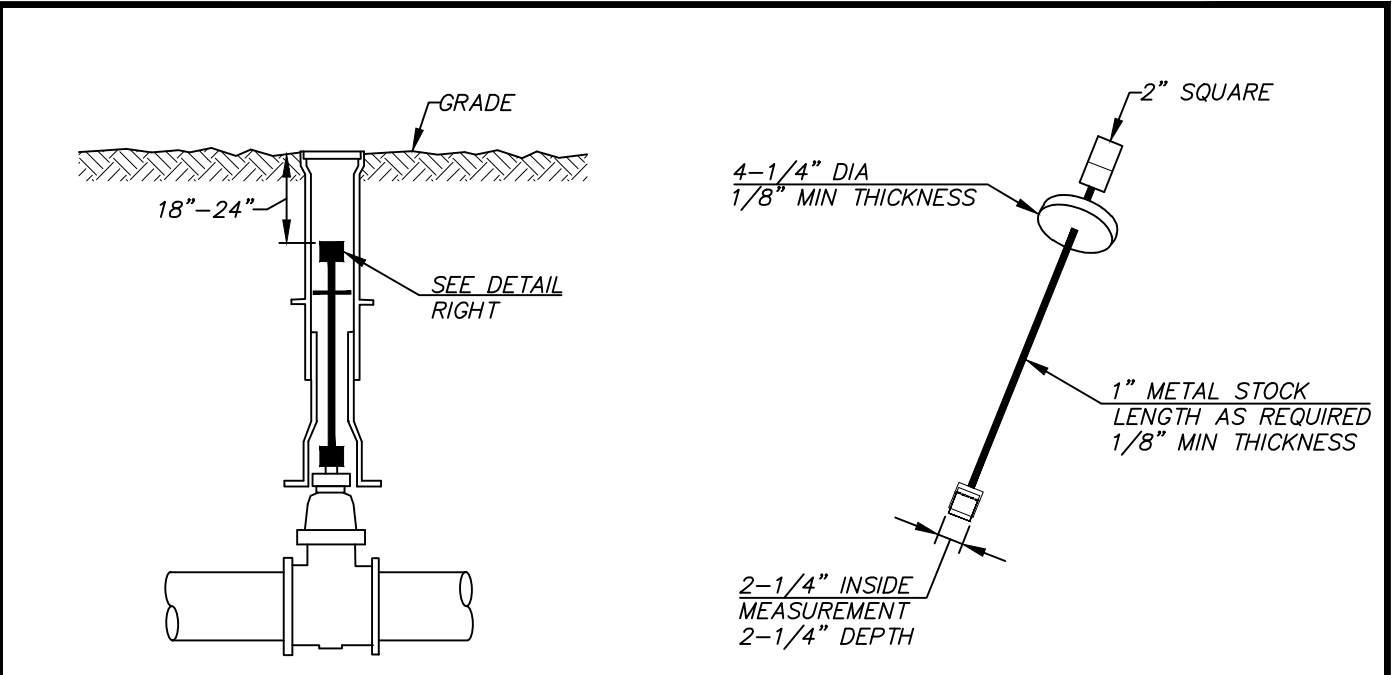


PLAN

ELEVATION

PIPE ANCHOR

REV. 10/20/17

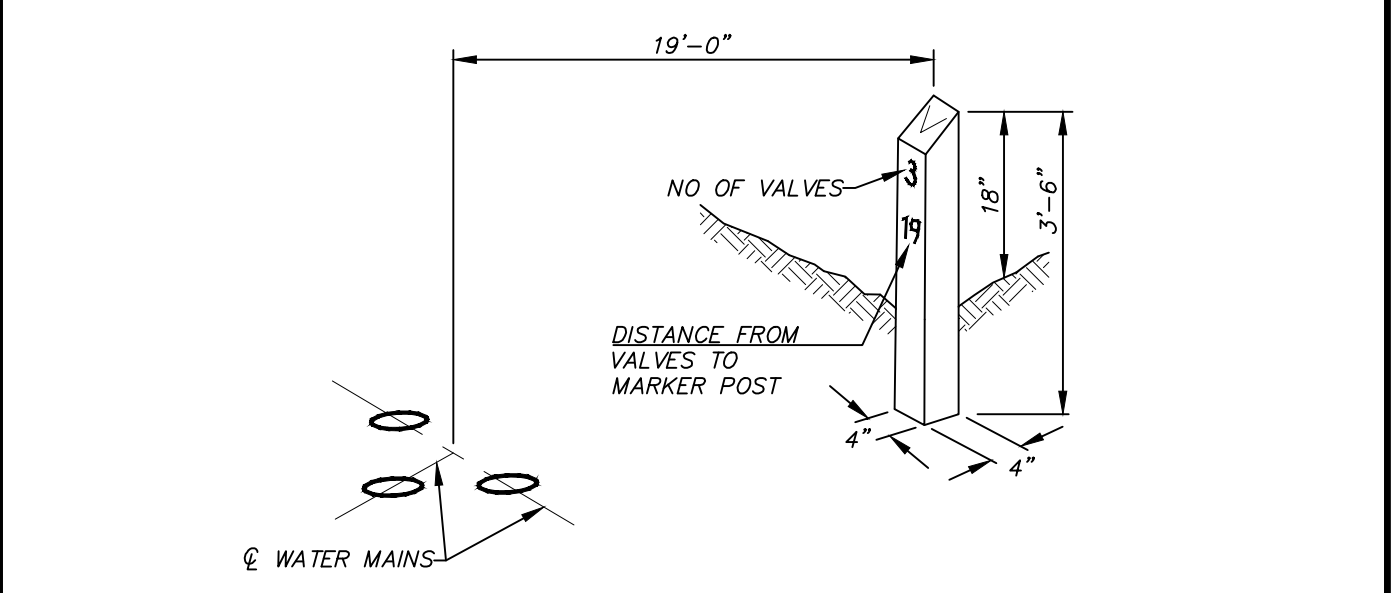


NOTE
EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN 36" BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF ONE (1) FOOT LONG. ONLY ONE EXTENSION TO BE USED PER VALVE. VALVE EXTENSION TO BE WITHIN 18" TO 24" OF FINISHED GRADE.

NOTE
ALL EXTENSIONS ARE TO BE MADE OF STEEL SIZED AS NOTED, AND PAINTED WITH TWO COATS OF CARBON ELASTIC (ATCO #222) AS SPECIFIED BY PRESERVATIVE PAINT CO. OR AN APPROVED EQUAL.

VALVE OPERATING NUT EXTENSION

REV. 10/24/17

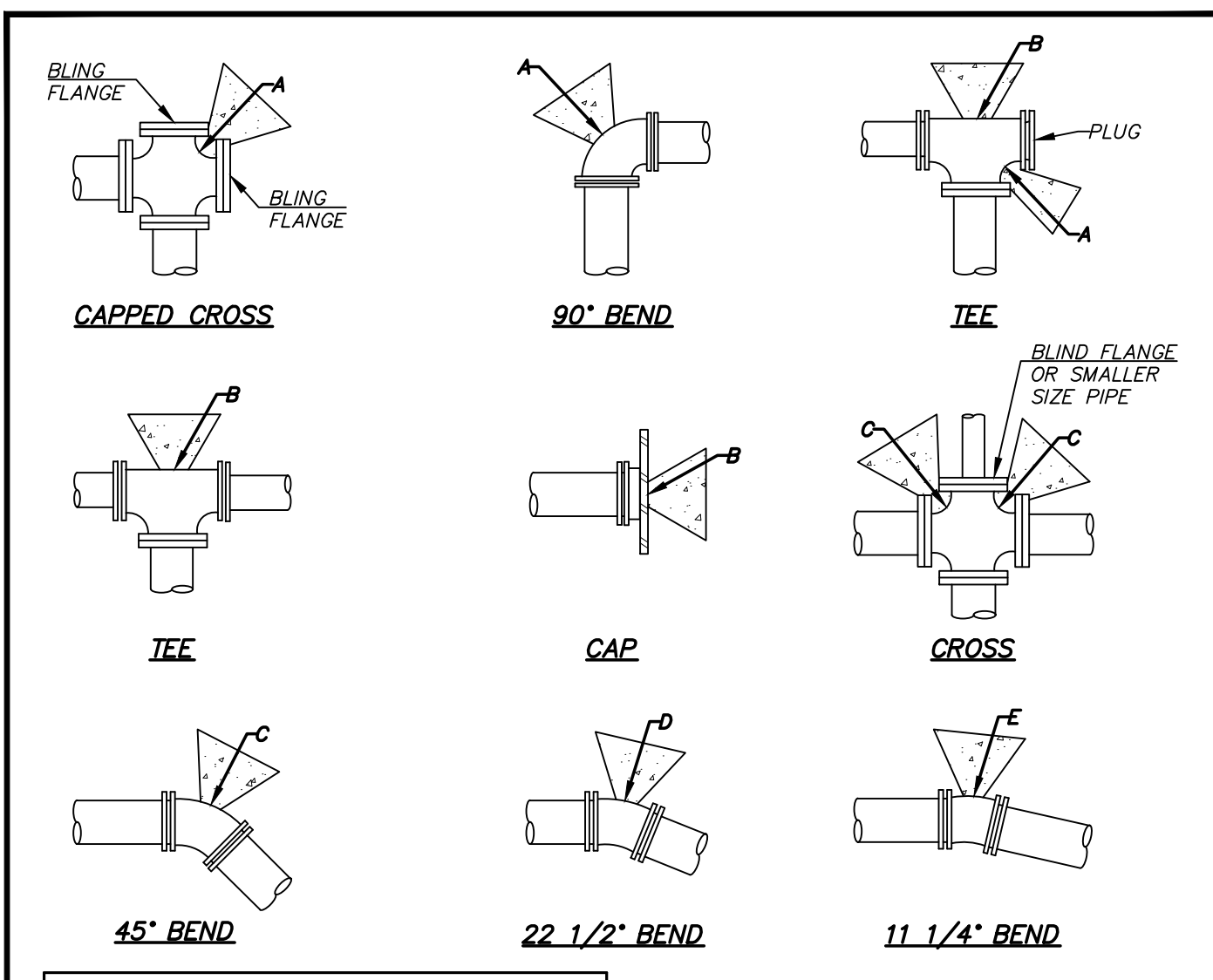


NOTES

1. VALVE MARKER POST SHALL BE A FOOTITE VALVE MARKER OR APPROVED EQUAL.
2. THE POST SHALL BE SET AT RIGHT ANGLES TO THE ROADWAY FROM THE VALVE AND SHALL BE SITUATED IN A SAFE AND REASONABLY CONSPICUOUS LOCATION.
3. FOR MORE THAN ONE VALVE, THE NUMBER OF VALVES SHALL BE NOTED NEAR THE TOP OF THE POST WITH THE DISTANCE TO THE CENTER OF THE VALVE (OR CLUSTER) MARKED BELOW.
4. PAINT VALVE MARKER WITH (2) COATS ALKYD INDUSTRIAL ENAMEL SAFETY YELLOW AND APPLY NUMBER OF VALVES AND DISTANCE (TO THE CLOSEST FOOT) TO THE LINE VALVE CAPS IN COLE NUMBERS APPLIED WITH WATERPROOF LIQUID NAILS.

VALVE MARKER POST

REV. 10/24/17



THRUST BLOCK TABLE
MIN BEARING AREA AGAINST UNDISTURBED SOIL (SF)

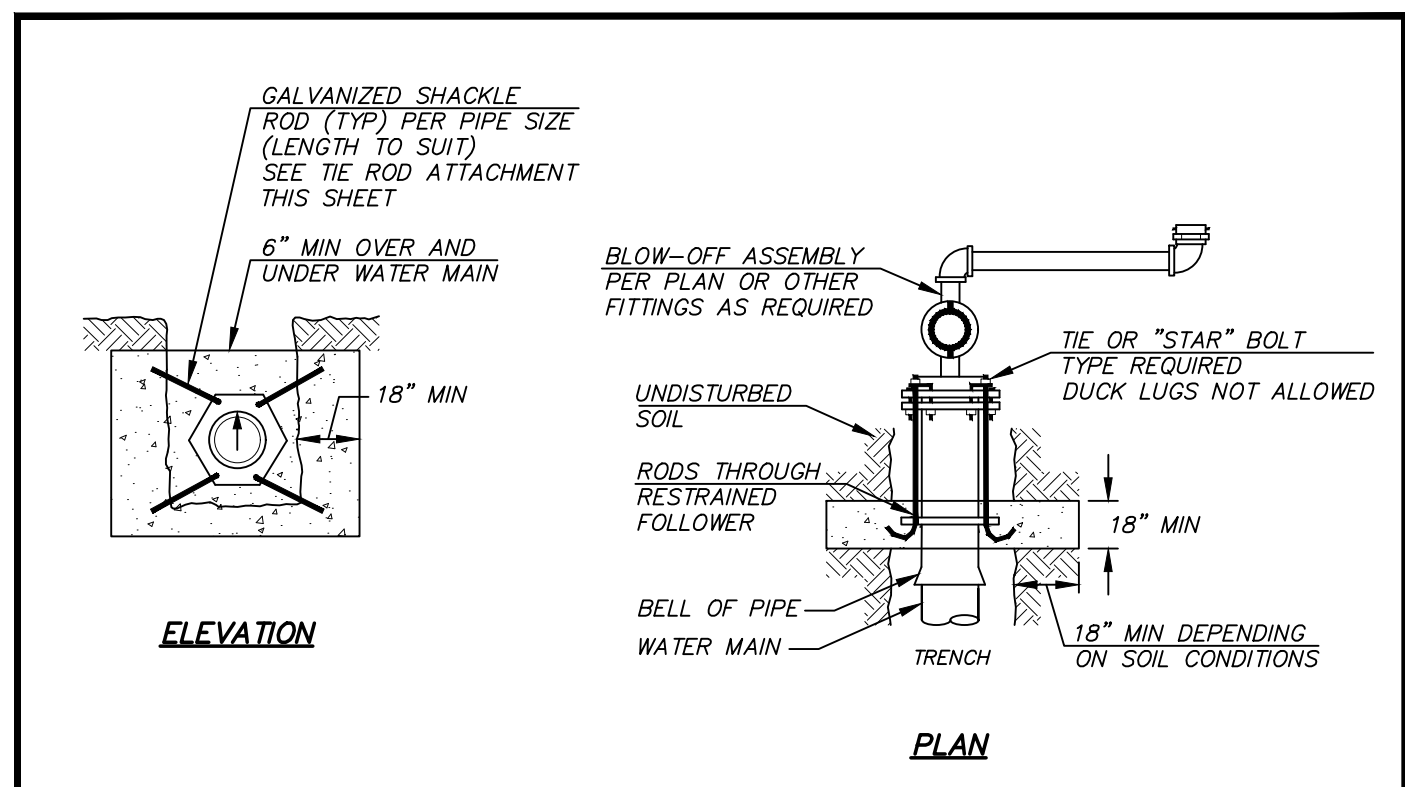
PIPE SIZE	A(FT ²)	B(FT ²)	C(FT ²)	D(FT ²)	E(FT ²)	X
4"	3	1	1	1	1	NONE
6"	4	4	2	1	1	NONE
8"	7	6	4	2	1	4
10"	11	10	6	3	2	6
12"	16	14	9	5	3	9
14"	22	19	12	6	3	12
16"	29	25	16	8	4	16
18"	36	31	20	10	5	20
20"	45	39	24	13	6	24
22"	54	47	29	15	8	29
24"	64	56	35	18	9	35
28"	87	76	48	24	12	48
30"	101	87	55	28	14	55
36"	145	125	78	40	20	78
42"	197	171	107	55	27	107
48"	257	223	140	71	36	140

NOTES

1. BEARING AREA OF CONCRETE THRUST-BLOCK BASED ON 200 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 2,000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZES, PRESSURES AND SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST-IN-PLACE AND HAVE A MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING OF JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATION PRESSURE UNDER ALL CONDITIONS OF SERVICE.

CONCRETE BLOCKING

REV. 10/20/17

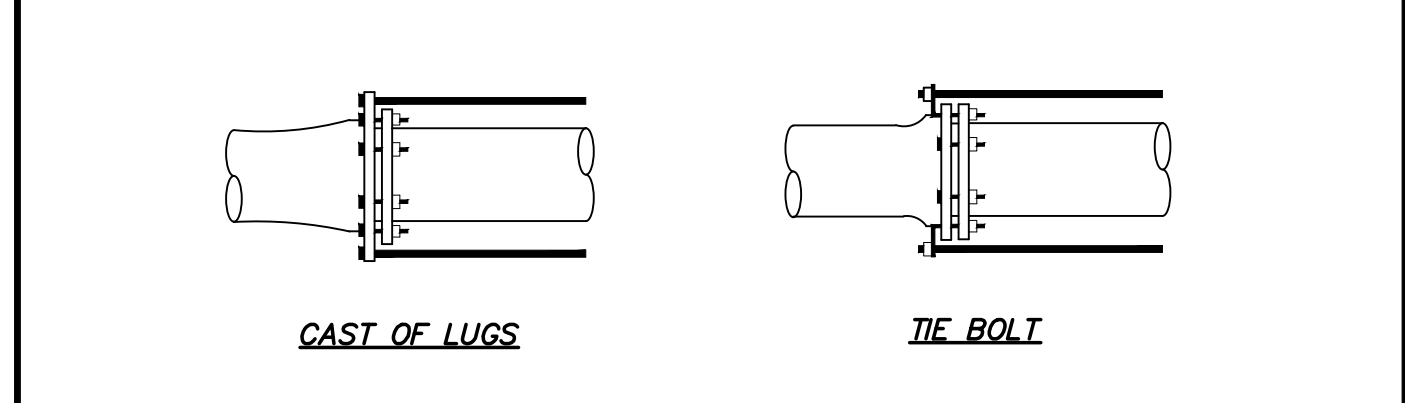


ELEVATION

PLAN

DEADMAN

REV. 10/18/17



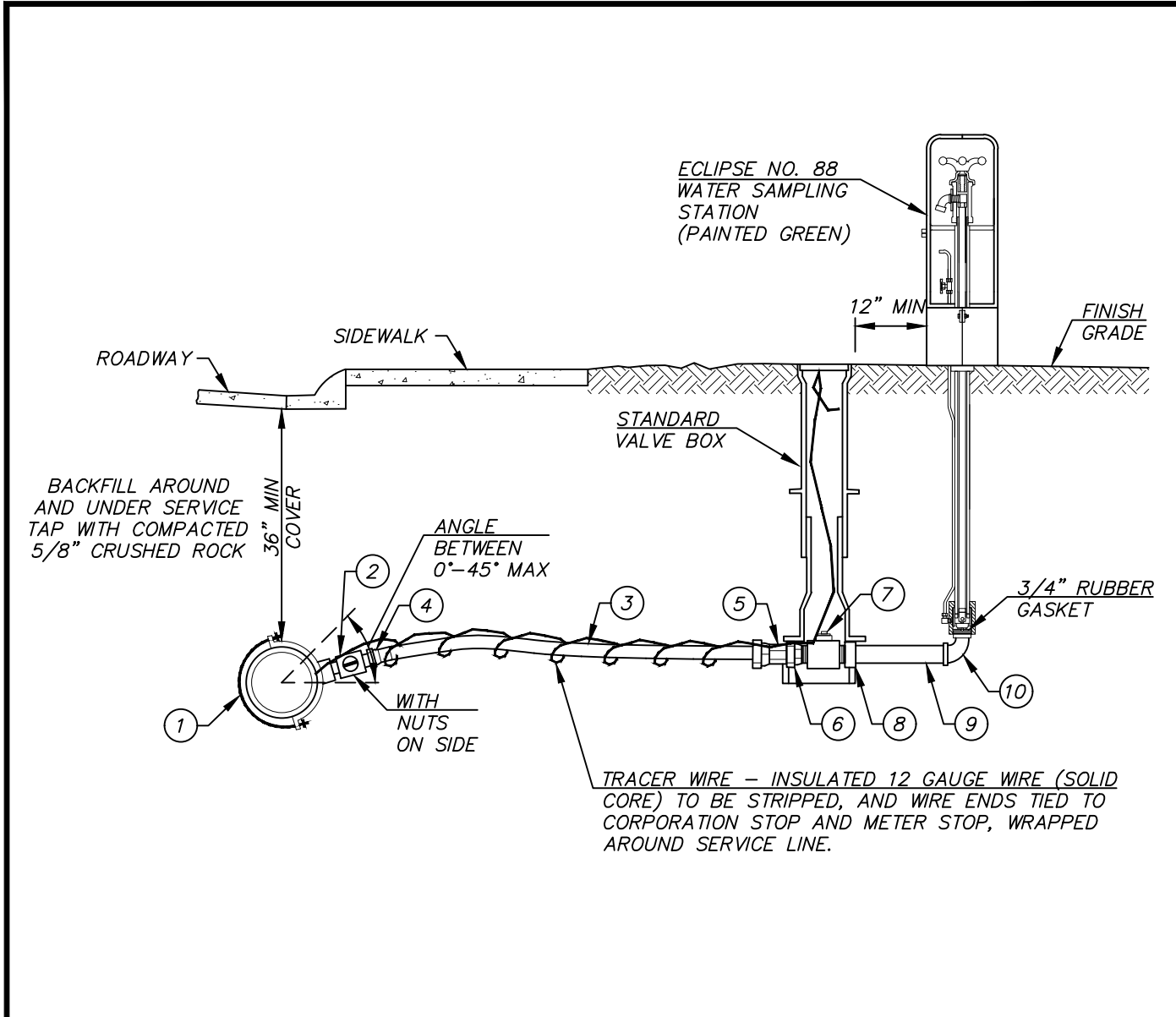
CAST OF LUGS

TIE BOLT

SIZE	PRESSURE PSI	FORCE IN POUNDS	NUMBER OF TIE RODS													
			2	3	4	6	8	10	12	14	16	24				
3"	300	2,120	3/8"													
4"	300	3,780	3/8"													
6"	300	8,500	5/8"	1/2"	3/8"											
8"	300	15,100	3/4"	5/8"	1/2"											
10"	275	21,620	3/4"	5/8"	1/2"											
12"	250	33,930		3/4"	5/8"											
14"	250	46,200			3/4"	5/8"										
16"	225	45,250			3/4"	5/8"										
18"	200	50,900			3/4"	5/8"										
20"	200	62,840				3/4"	5/8"									
24"	200	90,480					3/4"	5/8"								
30"	200	141,370						3/4"	5/8"	1"	7/8"					
36"	200	203,580										1"	7/8"			

TIE ROD ATTACHMENTS

REV. 10/18/17



ITEM	DESCRIPTION	FORD PART NO.	MUELLER PART NO.	A.Y. MCDONALD	OTHER PART NO.	QTY
①	1" SADDLE I.P.T.	N/A	N/A	N/A	ROMAC 202S	1
②	1" CORPSTOP (MIPxMIP)	FB500-4	B2996	3131B1	N/A	1
③	1" HDPE PIPE	— DRISCOPLEX 5100 ULTRA LINE SDR7 200 PSI IPS OR PW EAGLE—				1
④	1" FIPxCOMPRESSION ADAPTOR	C16-44P *	H15454.10	4754-33	N/A	2
⑤	W/ STAINLESS STEEL STIFFENER	INSERT-72	505142	6136	N/A	2
⑥	1" PAC JOINT x 1" MIP	C26-44	H15429	475-CP	N/A	1
⑦	1" FIP x 3/4" FIP REDUCER	C11-43	N/A	N/A	N/A	1
⑧	3/4" BALL CORP MIP x MIP	FB500-3	N/A	N/A	N/A	1
⑨	3/4" COUPLING	N/A	N/A	N/A	N/A	1
⑩	3/4" BRASS NIPPLE	N/A	N/A	N/A	N/A	1
⑪	3/4" 90° BRASS STREET ELL	N/A	N/A	N/A	N/A	1

* QUICK JOINT ACCEPTABLE, GRIP JOINT NOT ACCEPTABLE

NOTES

1. ALL PIPE AND FITTINGS TO BE ASSEMBLED WITH TEFLON TAPE AND PIPE DOPE UNLESS OTHERWISE NOTED.
2. SERVICE LINES SHALL BE INSTALLED PERPENDICULAR TO THE WATER MAIN.
3. THE SERVICE LINE SHALL BE INSTALLED TO ALLOW FOR THE FAR SIDE OF THE SAMPLE STATION TO BE INSTALLED IN THE R/O/W OR EASEMENT LINE, UNLESS OTHERWISE DIRECTED BY THE DISTRICT.

WATER SAMPLING STATION

REV. 10/30/17

BY DATE
REVISIONS

Sammamish Plateau Water
1510 228th Avenue SE, Sammamish, WA 98075
425.392.6256 • spwater.org

STANDARD DETAILS
WATER DETAILS

DATE: 10/24/2017
DRAWN: JF
CHECKED: NONE
JOB NO.:

SHEET
2
OF
2

3.1 SEWER SYSTEMS

A. Manholes

Precast manhole base sections shall be placed on a well-compacted bedding course of bedding material. The depth of the bedding shall be four (4) inches thick or greater, extending a minimum of twelve (12) inches beyond the outside perimeter of the base section.

All lift holes (inside and outside) and the inside face of rubber gasket joints between precast sections shall be thoroughly wetted and then filled with grout, smoothed and all joints pointed.

Precast sections shall be placed and aligned to provide vertical sides and vertical alignment of ladder runs. Eccentric cone shall be positioned to allow vertical access to the ladder. The completed manhole shall be rigid, true to dimension and watertight.

Manholes eight (8) feet and less in depth shall have cones a maximum of two (2) feet in height.

Manholes twenty (20) feet or greater in depth shall conform to the Deep Manhole detail on the Standard Details.

Manholes set in paved streets or other paved areas shall be set flush with finished grade of the paving and when required, the manhole frame shall be tilted to conform to the grade on the paved surface.

Manholes set in gravel shoulders or other non-paved improved areas shall be set flush with the finished grade and in an asphalt apron six (6) feet in outside diameter. The asphalt apron shall be tapered per the Standard District Details. The manhole frame shall be tilted to conform to the grade of the finished surface.

Manholes not set in paved or improved areas shall be set at a finished grade six (6) inches to twelve (12) inches higher than the surrounding terrain to prevent surface water infiltration into the system, unless plans specify otherwise. Manholes shall be surrounded by an asphalt apron as shown on the Standard Details.

Manholes installed in wet areas shall have additional measures added to ensure no water infiltration. Consult with District for requirements.

Manhole channels shall be made to conform to the sewer grade and shall be brought together with well-rounded junctions. Channel sides shall be carried up vertically to the top of the largest pipe's diameter and rounded to the shelf at the largest pipe's crown elevation. The concrete shelf shall be smoothly finished with slopes to drain.

The openings through which pipes come into the manhole shall be completely and thoroughly grouted. A watertight joint (Kor-n-Seal boot or approved equal) shall be provided where the pipe passes through the manhole wall.

B. 6-Inch Side Sewer from Main to Property Line

The strength class of side sewer pipe shall be the same as the sewer pipe to which it connects and these specifications shall be applicable to side sewer work.

The slope of side sewers shall not exceed one (1) foot vertical to one (1) foot horizontal when using SDR 35 D3034 PVC, nor be less than 2 percent. If ductile iron or C900 piping is used along with the corresponding change in mainline material, then slope is allowed a maximum of two (2) foot vertical to one (1) foot horizontal nor be less than two percent.

The end of all side sewers at the property lines shall be marked with a vertical twelve (12) foot long, 2"x4" board, the bottom of which shall be located at the invert of the elevations of the side sewer and top of which shall be painted white and extend above the ground. The board shall be wrapped from one end to the other with a 12 AWG insulated wire. The wire shall be securely wrapped around the end of the side sewer. The word "SEWER" shall be stenciled in two (2) inch high black letters on the upper end of the board.

C. Connection to the Existing Sewer System

Extensions to the District's sewer system shall be isolated from the existing system with a plug installed at the existing manhole in the presence of District personnel and maintained by the Developer until the sewer extension is accepted by the District. Developer and/or Developer's Contractor shall be fined for tampering with the District's sewer system if the plug is removed or a connection is made without the District being present.

- 1. Connections to existing manholes shall be made as follows:
a) If the manhole is "live", the manhole channel shall be tightly covered to prevent debris from entering the sewer line prior to breaking into the manhole wall.
b) If the existing manhole is not "live", a plug shall be installed in the downstream or discharge pipe of the existing manhole in addition to the above.
c) The existing manhole shall be rechanneled.
2. Connections to existing sewer main shall be made as follows:
a) The existing line shall be cut and removed from the manhole excavation.
3. Connections of side sewers to an existing sewer line shall be made as follows:
a) The connection to an existing sewer main shall be made with a cut in tee with slip couplings.
b) Alternatively, the connection shall be made with Romac "SST" Stainless Steel Tapping Sleeve.

- D. Side Sewers (Gravity or Pressure)
Gravity or pressure (grinder pump) side sewers shall be installed and tested in accordance with the Sammamish Plateau Water and Sewer District "Side Sewer Regulations", latest edition.
E. Use of Ductile Iron Pipe for Sewers
The contractor shall furnish repair kits and shall repair the PROTECTO 401 ceramic epoxy lining damaged during installation, welding and/or field cutting operations.
F. Lift Stations
Lift stations shall be installed per District-approved plans and specifications.

Lift stations shall be installed per District-approved plans and specifications. Lift stations shall be tested with representatives of the District, Developer, Contractor and all sub-contractors involved with the lift station present. Developer/Contractor shall furnish the District with three (3) copies of the Operation and Maintenance Manuals for the Lift Station in labeled binders.

3.2 TESTING FOR WATER AND SEWER PIPELINES

A. Hydrostatic Tests For Ductile Iron Water and Sewer Mains

Ductile iron water and sewer main installations shall be subjected to a hydrostatic pressure test of 250 PSI for a minimum of 15 minutes, before leakage measurement starts. Location of the test pump shall be approved by the District. It shall then be held at this pressure, without pumping, and any leaks or imperfections developing under said pressure shall be remedied by the Contractor before final acceptance of the work.

Allowable leakage in gallons per fifteen minutes per 1,000 feet of pipe:

Table with 4 columns: Pipe Size (inches), 1 - Hour Test, 2 - Hour Test, 3 - Hour Test. Rows include 2" - 0.06 gallons, 4" - 0.12 gallons, 6" - 0.18 gallons, 8" - 0.24 gallons, 10" - 0.30 gallons, 12" - 0.36 gallons, 14" - 0.42 gallons, 16" - 0.48 gallons, 18" - 0.54 gallons, 20" - 0.59 gallons, 24" - 0.71 gallons.

B. Hydrostatic Tests For HDPE Water and Sewer Mains

HDPE water and sewer main installations shall be subjected to a hydrostatic pressure test of 1.5 times the rated operating pressure of the pipe. Location of the test pump shall be approved by the District. To establish equilibrium, the pipe shall be raised to the test pressure and allowed to stand without makeup pressure for 2 to 3 hours to allow for expansion of the pipe, unless otherwise approved or directed by the District.

Table with 4 columns: Nominal Pipe Size (inches), 1 - Hour Test, 2 - Hour Test, 3 - Hour Test. Rows include 3, 4, 6, 8, 10, 11, 12, 14, 16, 18, 20, 22, 24, 28, 32, 36, 42, 48.

Under no circumstances shall the total time under the test exceed eight (8) hours at 1.5 times the pressure rating. If the test is not completed due to leakage, equipment failure, etc., the test section shall be allowed to "relax" for eight (8) hours prior to the next test.

Any leaks or imperfections developing under said pressure shall be remedied by the Contractor before final acceptance of the work. The Contractor shall provide all necessary equipment to allow the District's inspectors to use their gauges and equipment and shall perform all work connected with the tests.

C. Sterilization and Flushing Of Water Mains

Flushing of the water mains is to clean and sterilize the mains. Cleaning includes the flushing at a velocity and volume that will remove rocks and debris from the main.

Sterilization of water mains shall be accomplished by the Contractor in accordance with the requirements of the State Department of Health (DOH) and in a manner satisfactory to the District. During pipe installation the Contractor shall install chlorine granules per manufacturer's specifications to achieve a chlorine concentration of not less than 50 PPM.

If the main fails to pass purity tests the following procedure shall be followed. The section to be sterilized shall be thoroughly flushed at maximum flow prior to chlorination. Flushing shall be done in the presence of the District. Sections will ordinarily be sterilized between adjacent gate valves unless, in the opinion of the District, a longer section may be satisfactorily handled.

The Contractor shall be responsible for disposal of treated water flushed from mains and shall neutralize the wastewater for protection of aquatic life in the receiving water before disposal into any natural drainage channel.

D. Cleaning And Jetting Of Sewer Mains

Prior to sewer pipe testing, all pipes and manholes shall be completely cleaned by jetting and vactoring. All debris from the jetting shall be removed at the first manhole where presence of the debris is noted. In event that cemented or wedged debris or damaged pipe cannot be dislodged by jetting, the obstruction shall be removed and/or repaired. No debris or jetting water shall be permitted to enter the existing sewer system.

E. Testing Of Non-Pressure Sewer Pipe

Testing, which includes CCTV Inspection, of all non-pressure sewer pipe shall be conducted on a manhole to manhole basis. Testing for District's approval shall only be allowed after all other nearby utilities have been installed and their trenches backfilled and compacted, all manholes have been channeled, and all manholes and sewer mains have been cleaned as discussed above in Subsection D.

All wyes, tees and ends of side sewer stubs shall be plugged with gasketed caps or plugs, or an alternate acceptable to the District and securely fastened to withstand the internal test pressure. Such plugs or caps shall be readily removable.

If any section of the sewer system is found to have deficiencies or fails to pass a test, the Contractor shall locate and repair any and all deficiencies or substandard work. After all repairs are made, the Contractor shall retest the full run of sewer main, manhole-to-manhole, at the District's sole discretion.

Final Approval of the sewer system is conditional on successful completion of all tests and Inspections.

- 1. Pressure Testing: All runs of non-pressure sewer pipe shall be air tested at 4 psi. The procedures set forth in this section shall be employed in conducting the testing.
2. Deflection Testing: All sanitary sewers constructed of flexible pipe shall be deflection-tested not less than 30 days after the trench backfill and compaction has been completed.
3. Infiltration Testing: The District may require an infiltration test if it appears that there is excessive infiltration after air tests are completed.

4. Television/CCTV Inspection: The District shall require all runs of sewer pipe to be inspected by the use of a television camera not less than 30 days after the trench backfill and compaction has been completed. The costs of making all inspections and re-inspections, shall be borne by the Developer or Contractor.

a. CCTV Equipment:

- 1) Television inspection equipment shall have an accurate footage counter that will display on the monitor and record the camera distance from the centerline of the starting manhole.
2) The camera shall be of the remotely operated pan and tilt type. The rotating camera and light head configuration shall have the capability of panning 360° with pan and tilt capability of providing a full view of the pipe to ensure complete inspection of the mainline pipe and service laterals.
3) The camera, television monitor, and other components shall be color. To ensure peak picture quality throughout all conditions encountered, the color camera shall be equipped with the necessary circuitry to allow for the remote adjustment of the optical focus iris from the power control unit at the viewing station.
4) Lighting and camera quality shall be suitable to allow a clear, in-focus picture for the entire inside periphery of pipelines extending at least ten (10) feet in front of the camera.
5) Camera quality shall be suitable to provide a full 360° view of the pipe during the inspection.
6) The travel speed of the camera shall be variable but uniform and shall not exceed 30 feet per minute.
7) The television system shall be capable of performing line segment inspection in increments of 400 feet with one setup.
8) The District's 1-1/2" target, or the contractor's District-approved target, shall be used.

b. CCTV Procedure:

- 1) Just prior to performing the video inspection procedure, dyed water must be introduced into the nearest upstream manhole until observed at the nearest downstream manhole.
2) All fog shall be evacuated from the pipeline and the pipeline kept clear of any fog during the CCTV inspection process.
3) Perform the inspection on all mainline sections from manhole to manhole.
4) Should access to a particular sewer segment be difficult, and where adjacent segments require television inspection, the CCTV Contractor may be allowed to complete the inspection of multiple sewer line segments with one setup.
5) The interior of the pipe shall be carefully inspected to determine the location and extent of all deficiencies.
6) At all service connections, the camera shall be stopped and the pan and tilt features shall be used to obtain a clear picture.
7) Prior to the beginning of each CCTV inspection, manhole identification numbers, as indicated on the record drawings, will be displayed in the title and shall become a part of the video record.
8) As directed by District, the Developer's Engineer or their representative, the camera shall be stopped to view and analyze conditions that appear unusual or uncommon.
c. The television-inspection format shall be provided on DVD in a MPEG file type that is able to be viewed using Windows Media Player, with separate MPEG files individually designated between each sewer run between manholes and listed on an index or menu.

F. Hydrostatic Tests For Pressure Sewer Pipe

After the trench is backfilled and compacted, all pressure sewer pipe shall be subjected to a hydrostatic pressure test in accordance with the test for the applicable pipe material, as specified previously in this section. All facilities and personnel for conducting the testing under the observation of the District shall be furnished by the Developer/Contractor and shall be subject to the approval of the District.

G. Testing For Low Pressure Mainline Sewers And Grinder Pump Systems

Testing shall conform to the requirements in the District's "Side Sewer Regulations", latest edition.

3.3 ABANDONMENT OF WATER AND SEWER FACILITIES

A. Abandonment of Water Mains

Water mains and valves to be abandoned shall be abandoned in accordance with the procedures listed below, so as to minimize the risk of leaking from abandoned valves and to minimize obstructions within the right-of-way. If an active water main that has an abandoned valve attached to it will be abandoned in the foreseeable future, as determined solely by the District, the abandoned valve can remain and its valve can and valve box shall be raised to finished grade, in accordance with A.1 below.

- 1. For Abandoned Water Valve to Remain:
a. Turn valve to the closed position.
b. Remove valve box and valve can.
c. Inspect valve for longevity of leaking from packing, etc.
d. If valve is not leaking, cut out section of main from old valve.
e. Install MJ plug or blind flange on valve.
f. Plug old pipe with concrete. If pressure build-up from ground water entering the abandoned pipe is likely to occur (especially on hillsides), install a blocked MJ cap.
g. Re-install the valve box and valve can, and install 6" grout in valve can to indicate a plugged valve.
h. Backfill and compact.
2. For Abandoned Water Valve to Be Removed:
a. Schedule a water main shutdown.
b. Turn valve to the closed position.
c. Remove valve box and valve can.
d. Cut out section of main from old valve.
e. Remove valve, and install blind flange or MJ plug on tee.
f. Plug old pipe with concrete. If pressure build-up from ground water entering the abandoned pipe is likely to occur (especially on hillsides), install a blocked MJ cap.
g. Backfill and compact.

B. Abandonment of Fire Hydrants

Fire hydrants to be abandoned shall be abandoned in accordance with the procedures listed below, so as to minimize the risk of leaking from abandoned valves and to minimize obstructions within the right-of-way. If an active water main that has an abandoned hydrant foot valve attached to it will be abandoned in the foreseeable future, as determined solely by the District, the abandoned foot valve can remain and its valve can and valve box shall be raised to finished grade, in accordance with B.1 below.

- 1. For Abandoned Foot Valve to Remain:
a. Turn 6-inch valve to the closed position.
b. Remove valve box, valve can, and fire hydrant.
c. If valve is not leaking, remove entire 6-inch pipe to hydrant, or cut out at least a 1-foot section of main from old valve.
d. Install MJ plug or blind flange on valve.
e. If hydrant run is not removed, plug both ends of hydrant run pipe with concrete.
f. Re-install the valve box and valve can, and install 6" grout in valve can to indicate a plugged valve.
g. Backfill and compact.
h. If the existing hydrant is to be relocated due to some conflict, a new hydrant will be installed.
2. For Abandoned Foot Valve to Be Removed:
a. Schedule a water main shutdown.
b. Turn valve to the closed position.
c. Remove valve box, valve can, and fire hydrant.
d. Remove entire 6-inch pipe to hydrant, or cut out at least a 1-foot section of main from old valve.
e. Remove valve, and install blind flange or MJ plug on tee.
f. If hydrant run is not removed, plug both ends of hydrant run pipe with concrete.
g. Backfill and compact.
h. If the existing hydrant is to be relocated due to some conflict, a new hydrant will be installed.

C. Abandonment of Water Services

Water services must be abandoned at the water main in accordance with the following procedure:

- 1. Excavate to corporation stop and saddle.
2. If saddle is a single strap or is not stainless steel or the stainless steel strap/saddle/corporation stop is in poor condition, schedule a water main shutdown, then replace the saddle with a stainless steel repair band.
3. If the saddle is a stainless steel double strap in good condition, it can remain in place.
4. Install a brass plug on the corporation stop.
5. On the setter side, cut the service line away from the setter, plug the line, remove the setter and dispose of properly (return to District and place in recycle bin).
6. Arrange with the District's Customer Service Department for disposition of the water meter and documentation of the last meter reading.
7. Backfill and compact.

D. Abandonment of Manholes or Vaults

Manholes, vaults, and similar underground structures must be abandoned in accordance with the following procedure:

- 1. Remove frame and cover or vault lid and hatch(es).
2. Remove manhole cone and sections or vault sections as necessary so that remaining structure is at least 4 feet below finished grade.
3. Plug all pipe penetrations with grout.
4. Fill remaining structure with pea gravel to within 3.5 feet of the top of the remaining structure.
5. Fill the next 3.5 feet (to the top of the remaining structure) with CDF.
6. Backfill and compact the top 4 feet with suitable native material or import backfill to finished grade.

E. Abandonment of Pressure Sewers (Force Mains, Low Pressure Force Mains, and Grinder Pump Lines)

All pressure sewer lines, including force mains, low pressure force mains, and grinder pump lines, must be abandoned in accordance with the following procedure:

- 1. Force mains, low pressure force mains, and grinder pump lines that are to be abandoned should be flushed in a sanitary way to eliminate a septic condition, if possible.
2. Mains shall be physically disconnected from District's system and plug all forcemains larger than 2 inches in diameter with grout. Plug or cap all pipe ends 2 inches or smaller.
3. If pressure build-up from groundwater entering the abandoned force main or low pressure force main is likely to occur (especially on hillsides), install a blocked cap or plug on pipe 4 inches or larger, and install a watertight connection (e.g., pack joint) for pipe smaller than 4 inches.
4. Possible pressure grouting of abandoned main may be required on a case-by-case basis.

F. Abandonment of Gravity Side Sewers

All gravity side sewer lines must be abandoned in accordance with the following procedure:

- 1. Side sewer shall be physically disconnected from District's system.
2. A plug shall be installed in the side sewer tee at the sewer main.
3. A cap shall be installed on both ends of the side sewer.

Table with 2 columns: BY, DATE. Multiple empty rows for revision tracking.

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STANDARD MATERIAL AND CONSTRUCTION NOTES

Table with 2 columns: DATE, SHEET. Includes drawing status: DRAWING: JUT, CHECKED: NONE, JOB NO.

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