CITY OF CENTRALIA
SEMINARY HILL
RESERVOIR AND WATERMAIN
CENTRALIA, WASHINGTON

VICINITY MAP N

LOCATION MAP N

Know what's **below.**
Call before you dig.

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REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-G
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

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CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

TITLE, VICINITY MAP, AND LOCATION MAP

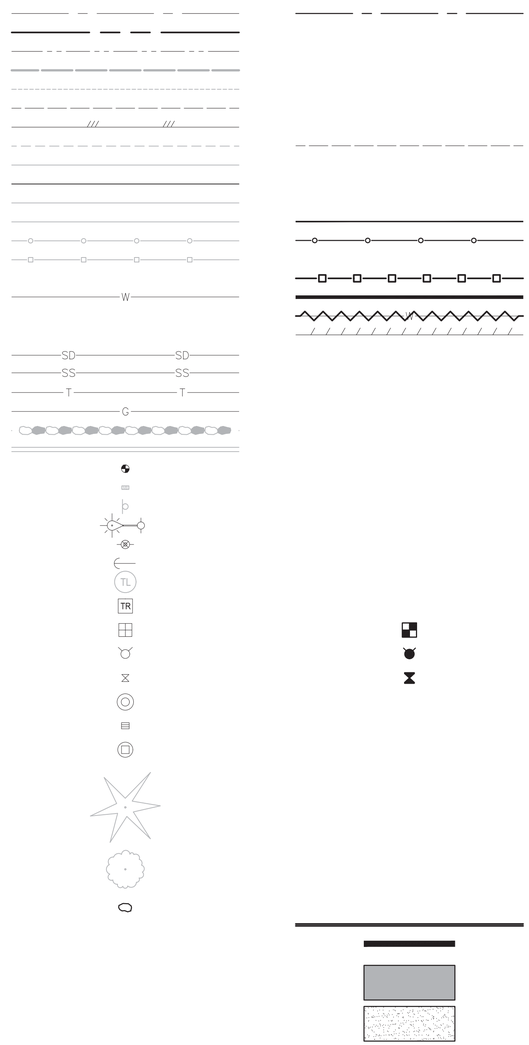
DRAWING NO.
OF 91
G1

LAYOUT: G1 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 8:16:11 AM

ABBREVIATIONS:

AP	ANGLE POINT
APPROX	APPROXIMATE
AVE	AVENUE
BP	BEGINNING POINT
BVC	BEGIN VERTICAL CURVE
℄	CENTER LINE
CB	CATCH BASIN
CL	CLASS
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONST	CONSTRUCTION
CPEP	CORRUGATED POLYETHELYNE STORM SEWER PIPE
CSTC	CRUSHED SURFACING TOP COURSE
DET	DETAIL
DI	DUCTILE IRON
DIA	DIAMETER
E	EAST, EASTING
EA	EACH
EP	END POINT
EVC	END VERTICAL CURVE
EX	EXISTING
FH	FIRE HYDRANT
FL, FLG	FLANGE
FOC	FACE OF CURB
G	GAS
GRND	GROUND
HMA	HOT MIX ASPHALT
HYD	HYDRANT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
L	LENGTH, LEFT
LF	LINEAR FEET
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MJ	MECHANICAL JOINT
MJ-R	MECHANICAL JOINT RESTRAINED
MIN	MINIMUM
N	NORTH, NORTHING
NST	NO STEEPER THAN
NW	NORTHWEST
PC	POINT OF CURVATURE
PG	PERFORMANCE GRADE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY, POINT
PVI	POINT OF VERTICAL INTERSECTION
R, RD	RADIUS
REQ'D	REQUIRED
R, RT	RIGHT
ROW	RIGHT OF WAY
S	SOUTH, SLOPE
SD	STORM DRAINAGE
SE	SOUTHEAST
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
SW	SOUTHWEST
T	TELEPHONE
TYP	TYPICAL
VC	VERTICAL CURVE
W	WATER, WEST
W/	WITH
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

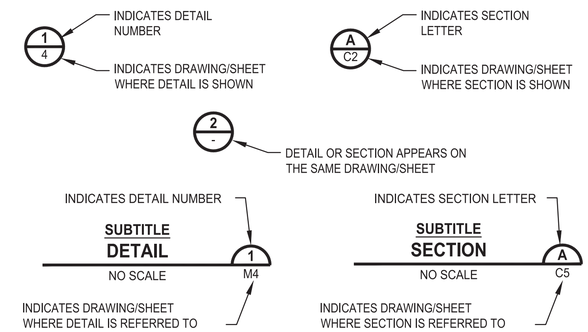
LEGEND:



DESCRIPTION:

CENTER LINE
RIGHT OF WAY
PROPERTY LINE
MAJOR CONTOUR
MINOR CONTOUR
EASEMENT
EDGE OF PAVEMENT
EDGE OF GRAVEL
BACK OF CURB
CURB FACE
CONCRETE
CHANNELIZATION STRIPE
CHAINLINK FENCE
WOOD FENCE
SILT FENCE
WATER
WATER ABANDONMENT
SAWCUT
STORM
SANITARY SEWER
TELEPHONE
GAS
ROCK WALL
SURFACE WALL
MONUMENT
MAIL BOX
SIGN
STREET LIGHT
POWER POLE
GUY ANCHOR
TRAFFIC LOOP
TELEPHONE RISER
WATER METER
HYDRANT
GATE VALVE
SEWER MANHOLE
STORM DRAIN CATCH BASIN TYPE 1
STORM DRAIN CATCH BASIN TYPE 2
CONIFER TREE
DECIDUOUS TREE
SINGLE LARGE ROCKS
DOUBLE YELLOW CENTER LINE
STOP BAR
ASPHALT PAVEMENT
GRAVEL RESTORATION

DETAIL AND SECTION DESIGNATION



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CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

LEGEND, ABBREVIATIONS, AND INDEX

DRAWING NO.
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G2

LAYOUT: G2 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 8:16:21 AM

CITY OF CENTRALIA WATER MAIN INSTALLATION GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF CENTRALIA STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, WASHINGTON DEPARTMENT OF HEALTH REGULATIONS AND AMERICAN WATER WORKS ASSOCIATION STANDARDS.

2. ALL WATER LINES 12" AND LARGER SHALL BE MADE OF DUCTILE IRON, THICKNESS CLASS 52 AND A RATED WORKING PRESSURE OF 350 PSI CONFORMING TO AWWA C151. ALL PIPE SHALL BE CEMENT MORTAR LINED PER AWWA C104 WITH PUSH ON JOINTS CONFORMING TO AWWA C111. WATER LINES UNDER 12" DIAMETER SHALL BE P.V.C. AWWA C-900 DR14.

3. FITTINGS SHALL BE CLASS 250 CEMENT MORTAR LINED DUCTILE IRON WITH MECHANICAL JOINT OR ANSI FLANGES. ALL BOLTED FITTINGS SHALL BE DRESSED WITH ANITA-SEIZE PRODUCT FOR PROTECTION. ALL DUCTILE IRON FITTING CONNECTION(S) SHALL BE COMPLETED BY THE USE OF MEGA-LUGS. WHEN CONNECTING TO AN EXISTING INLINE WATER MAIN, ALL CONNECTIONS WILL BE MADE USING A DUCTILE IRON (DI) SLEEVE, WITH MEGA-LUGS, OR ROMAC ALPHA COUPLING EXCEPT WHEN CONNECTING TO A AC MAIN WHERE A HYMAX COUPLER (OR EQUAL) WILL BE USED.

4. GATE VALVES SHALL BE RESILIENT WEDGE, NRS (NON-RISING STEM) WITH O-RING SEALS. VALVE ENDS SHALL BE MECHANICAL JOINT OR ANSI FLANGES. VALVES SHALL CONFORM TO AWWA (LATEST) 509 STD. VALVES SHALL BE MUELLER, M & H, CLOW, WATEROUS, KENNEDY OR AMERICAN AVK. EXISTING VALVES SHALL BE OPERATED BY CITY EMPLOYEES ONLY.

5. ALL NIBCO GATE VALVES MUST HAVE BRASS HANDLES.

6. A VALVE STEM RISER SHALL BE INSTALLED ON ALL VALVES WHERE THE DEPTH FROM FINISH GRADE TO THE TOP OF THE VALVE EXCEEDS 1.5'.

7. FIRE HYDRANTS SHALL BE 3-PORT M & H RELIANT STYLE 129, MUELLER CENTURION, 5 1/4" WITH STEAMER PORT THREAD OF 498. THE DISTANCE BETWEEN OPERATING NUT AND BREAK AWAY FLANGE SHALL BE 32 INCHES IN VERTICAL MEASUREMENT. ALL HYDRANT SHOES SHALL BE EPOXY COATED. EACH HYDRANT SHALL BE PROVIDED WITH A STORZ COUPLER ON THE STEAMER PORT. ALL HYDRANTS SHALL BE BAGGED UNTIL SYSTEM IS APPROVED.

8. BRASS WEDGES SHALL BE INSTALLED IN ALL DUCTILE IRON JOINTS FOR CONTINUITY, TWO (2) PER SECTION OF PIPE. P.V.C. PIPE, C.T.S. HDPE SCH. 200 PSI PIPE SHALL BE INSTALLED WITH A TONING (TRACER) WIRE. TONING WIRE SHALL BE UL LISTED, TYPE UF, SOLID CORE, 12 GAUGE INSULATED COPPER AND SHALL BE TAPED TO THE TOP OF THE PIPE TO PREVENT MOVEMENT DURING BACKFILLING. THE WIRE SHALL BE LAID LOOSELY ENOUGH TO PREVENT STRETCHING AND DAMAGE. THE WIRE SHALL BE BROUGHT UP AND TIED OFF AT VALVE BODY OR METER SETTING.

9. THE CONTRACTOR SHALL MAINTAIN A MIN. COVER OF 30 INCHES AND A MAX. COVER OF 36 INCHES OVER THE PIPE AT ALL TIMES.

10. ALL WATER MAINS SHALL BE STAKED FOR GRADE AND ALIGNMENT BY THE DESIGN ENGINEER OR A LICENSED LAND SURVEYOR. ALL VERTICAL CONTROL SHALL BE ESTABLISHED USING THE 1988 USGS DATUM.

11. ALL NEW WATER MAINS SHALL BE FILLED AND CHLORINATED FOR A MINIMUM OF 24 HRS PRIOR TO FLUSHING. CONTRACTOR SHALL COORDINATE WITH THE CITY TO HAVE LINES FILLED AND FLUSHED.

12. BACTERIA SAMPLING OF POTABLE WATER LINES SHALL BE PERFORMED BY THE CITY PRIOR TO HYDROSTATIC PRESSURE TESTING. CONTRACTOR SHALL PROVIDE AN APPROVED SAMPLING BOTTLE FROM THE LEWIS COUNTY HEALTH DEPT., 360 NW NORTH ST, CHEHALIS, WA 98532

13. ALL PIPE AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 225 PSI (MIN.) FOR 15 MINUTES AND WITNESSED BY THE CITY. FIRE LINE TESTING BEHIND THE METERING VAULT SHALL BE COORDINATED WITH RIVERSIDE FIRE AUTHORITY.

14. SERVICE LINES OF 3/4" AND 1" SHALL BE TYPE "K" COPPER OR COPPER TUBING SIZE (C.T.S.) BLUE HDPE POLYETHYLENE, 200 PSI PIPE. GALVANIZED FITTINGS SHALL NOT BE USED IN CONSTRUCTION OF SERVICE LINES.
NOTE: IN SOIL SENSITIVE AREAS, SERVICE LINES MAY BE CONSTRUCTED OF HDPE-CL200PSI. TONING (TRACER) WIRE IS REQUIRED WHEN USING HDPE PIPE WATER MAINS/SERVICES. SERVICES LARGER THAN 1" MAY BE BLUE HDPE OR BRASS.

15. FOR ANY WATER MAIN TAP TO EXISTING CITY MAINS WHERE THE CONTRACTOR ENCOUNTERS A COUPLING OR EXISTING ASSEMBLIES, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 18" OF CLEARANCE FROM COUPLING OR ASSEMBLIES TO EDGE OF TAPPING SLEEVE AND THE TAPPING PROCESS SHALL BE WITNESSED BY THE CITY WITH 2 DAYS PRIOR NOTICE.

16. WHERE THE WATER LINE CROSSES A SANITARY SEWER, THE WATER LINE SHALL BE ABOVE THE SEWER LINE WHENEVER POSSIBLE, WITH A SEPARATION OF AT LEAST 18 INCHES BETWEEN THE INVERT OF THE WATER LINE AND THE CROWN OF THE SEWER PIPE. IF THIS CRITERIA CAN NOT BE ACHIEVED THE SEWER PIPE SHALL BE CASED WITHIN DUCTILE IRON PIPE FOR A DISTANCE OF 10 FEET EITHER SIDE OF THE WATER LINE.

17. ALL "LONG SIDE SERVICES" SHALL BE CASED IN 160 PSI PIPE.

18. WATER SERVICES NOTED AS "LONG SIDE" SHALL REQUIRE A SCHEDULE 160 PVC PIPE AS A CASING TO CROSS THE R.O.W.

3/4" SERVICE - CASING DIA. 1.5"	1.5" SERVICE - CASING DIA. 3"
1" SERVICE - CASING DIA. 2"	2" SERVICE - CASING DIA. 3"

19. ALL ASBESTOS PIPE WORKMANSHIP MUST FOLLOW THE GUIDE LINES SET FORTH BY THESE AGENCIES: SOUTHWEST WASHINGTON AIR POLLUTION CONTROL AUTHORITY (SWAPCA) AND LABOR AND INDUSTRIES (L&I).

20. CALL THE UNDERGROUND LOCATION CENTER AT 1-800-424-5555 OR 811 AT LEAST 48 HOURS BEFORE ANY EXCAVATION.

LEWIS COUNTY WATER GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH LEWIS COUNTY STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS AND WASHINGTON STATE DEPARTMENT OF HEALTH (DOH) REGULATIONS.

2. A PRECONSTRUCTION MEETING WILL BE HELD WITH THE CONTRACTOR, APPLICANT'S ENGINEER, A UTILITY INSPECTOR, A REPRESENTATIVE OF THE UTILITY DIVISION, A REPRESENTATIVE OF THE ENGINEERING DIVISION OF THE PUBLIC WORKS DEPARTMENT, AND THE AFFECTED PARTIES BEFORE THE START OF CONSTRUCTION.

3. ALL WATER LINES 8-INCHES IN DIAMETER AND LARGER SHALL BE DUCTILE IRON, THICKNESS CLASS 52, RATED WORKING PRESSURE OF 350 PSI CONFORMING TO AWWA C151, CEMENT MORTAR LINED CONFORMING TO AWWA C104 AND PUSH ON JOINTS CONFORMING TO AWWA C111. WATER MAINS OF 4-INCHES AND 6-INCHES IN DIAMETER SHALL BE PVC C-900 CLASS 200. NO SOLVENT WELD JOINT PIPE IS ALLOWED.

4. FITTINGS SHALL BE DUCTILE IRON COMPACT FITTINGS CONFORMING TO AWWA C153, C110 OR C111. ALL FITTINGS WILL BE CEMENT MORTAR LINED CONFORMING TO AWWA C104. PLAIN END FITTINGS WILL BE DUCTILE IRON IF MECHANICAL JOINT RETAINER GLANDS ARE INSTALLED ON THE PLAIN ENDS. ALL FITTINGS WILL BE CONNECTED BY FLANGES OR MECHANICAL JOINTS. IF REQUIRED BY THE ADMINISTRATOR, MEGALUG RETAINER GLANDS AND PIPE RESTRAINT SYSTEMS SHALL BE REQUIRED. THESE RESTRAINT SYSTEMS SHALL BE AS MANUFACTURED BY ROMAC INDUSTRIES, EBAA IRON INC. OR SUCH OTHER EQUIVALENT RESTRAINT SYSTEMS AS SPECIFICALLY AND EXPRESSLY APPROVED IN WRITING BY THE LEWIS COUNTY ENGINEER.

5. GATE VALVES WILL BE RESILIENT WEDGE, NRS (NONRISING STEM) WITH O-RING SEALS. VALVE ENDS WILL BE MECHANICAL JOINT OR ANSI FLANGES. VALVES WILL CONFORM TO AWWA C509-80. VALVES SHALL BE MUELLER, M&H, KENNEDY OR CLOW. EXISTING VALVES AND ALL VALVES INSTALLED DIRECTLY TO AND CONNECTED TO A PORTION OF THE ACTIVE WATER SYSTEM ARE TO BE OPERATED BY UTILITY DIVISION PERSONNEL ONLY.

6. THE CONTRACTOR WILL TIMELY PROVIDE APPROVED TRAFFIC CONTROL PLANS IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). TRAFFIC CONTROL PLANS MUST BE APPROVED BY THE AGENCY ADMINISTERING THE AFFECTED RIGHT OF WAYS.

7. THE CONTRACTOR WILL KEEP COPIES OF ALL APPROVED PERMITS AND APPROVALS FOR WATER MAIN CONSTRUCTION ON SITE.

8. ALL WATER MAINS WILL BE STAKED FOR GRADES AND ALIGNMENT BY THE DESIGN ENGINEER OR A LICENSED LAND SURVEYOR. ALL VERTICAL CONTROL SHALL BE ESTABLISHED TO BE CONSISTENT WITH THE DATUM USED BY THE WATER UTILITY. STAKING WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.

9. ALL WATER SYSTEM CONNECTIONS SERVING BUILDINGS OR PROPERTIES WITH DOMESTIC POTABLE WATER, FIRE SPRINKLER OR IRRIGATION SYSTEMS MUST COMPLY WITH THE MINIMUM BACKFLOW PREVENTION REQUIREMENTS ESTABLISHED BY DOH AND THE CROSS-CONNECTION CONTROL PROGRAM FOR THE WATER UTILITY.

10. THE CONTRACTOR MUST CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555 A MINIMUM OF TWO BUSINESS DAYS BEFORE ANY EXCAVATIONS.

11. ALL PIPES AND SERVICES MUST BE INSTALLED WITH CONTINUOUS TRACER TAPE AND TONING WIRE. TRACER TAPE WILL BE PLACED 12 TO 18 INCHES UNDER THE PROPOSED FINISHED SUBGRADE. THE MARKER WILL BE OF PLASTIC, NONBIODEGRADABLE, METAL CORE OR BACKING MARKED "WATER" THAT CAN BE DETECTED BY A STANDARD METAL DETECTOR. TAPE WILL BE TERRA TAPE "D" OR APPROVED EQUAL. TONING OR TRACING WIRE WILL BE UL LISTED, TYPE UF, 12-GAUGE SOLID COATED COPPER WIRE. THE WIRE SHALL BE TAPED TO THE TOP OF THE PIPE TO PREVENT MOVEMENT DURING BACKFILLING, AND LAID LOOSE ENOUGH TO PREVENT STRETCHING AND DAMAGE BEFORE BROUGHT UP AND TIED OFF AT THE VALVE OPERATING NUT, VALVE BOX OR METER BOX. IF THE OPERATING NUT IS NOT EASILY ACCESSIBLE FROM THE GROUND SURFACE, THE WIRE WILL BE TIED OFF AT THE VALVE BOX SO THAT THE WIRE IS EASILY ACCESSIBLE FROM THE GROUND SURFACE. TWO (2) FEET OF SLACK WILL BE PROVIDED TO ALLOW FOR CONNECTION TO THE LOCATOR.

12. A MINIMUM COVER OF 30 INCHES AND A MAXIMUM COVER OF 36 INCHES OVER THE PIPE SHALL BE MAINTAINED AT ALL TIMES.

13. ALL STEPS OF THE TESTING, CHLORINATION AND SAMPLING PROCESSES MUST BE WITNESSED BY THE UTILITY INSPECTOR.

14. ALL PIPE AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI (MIN.) FOR TWO HOURS. A PRESSURE DROP GREATER THAN 5 PSIG SHALL CONSTITUTE A FAILURE AND THE PIPE SHALL BE RETESTED. THE CONTRACTOR'S PRESSURE GAGE SHALL BE CERTIFIED FOR ACCURACY FROM A CERTIFIED TESTING LAB, A MAXIMUM OF 6 MONTHS PRIOR TO THE START DATE OF CONSTRUCTION.

15. CHLORINATION BY MEANS OF TABLETS OR POWDERS (DRY CALCIUM HYDROCHLORITE) PLACED IN EACH LENGTH OF PIPE DURING INSTALLATION IS PROHIBITED.

16. WHERE THE WATER LINE CROSSES A SANITARY SEWER, THE WATER LINE SHALL BE ABOVE THE SEWER LINE WITH A SEPARATION OF AT LEAST 18 INCHES BETWEEN THE INVERT OF THE WATER LINE AND THE CROWN OF THE SEWER PIPE. IF THESE CRITERIA CANNOT BE MET, THEN THE SEWER PIPE SHALL BE CASED WITHIN DUCTILE IRON PIPE FOR A DISTANCE OF 10 FT ON BOTH SIDES OF THE WATER LINE.

17. ALL "LONG SIDE SERVICES" SHALL BE ENCASED IN 160 PSI PIPE AND PER THE FOLLOWING SCHEDULE WHEN CROSSING THE RIGHT-OF-WAY:
   - 17.1. 3/4" SERVICE: NEEDS 1.5" DIAMETER CASING.
   - 17.2. 1" SERVICE: NEEDS 2" DIAMETER CASING.
   - 17.3. 1.5" SERVICE: NEEDS 3" DIAMETER CASING.
   - 17.4. 2" SERVICE: NEEDS 3" DIAMETER CASING.

18. THE UTILITY MUST BE NOTIFIED FIVE (5) WORKING DAYS PRIOR TO SCHEDULING A WATER SYSTEM SHUTDOWN. UTILITY PERSONNEL WILL PERFORM ALL WATER SYSTEM SHUTDOWNS. WHEN CONNECTIONS REQUIRE FIELD VERIFICATION, THE CONTRACTOR WILL EXPOSE THE CONNECTION POINTS AND HAVE THE FITTINGS VERIFIED BY THE UTILITY THREE (3) WORKING DAYS BEFORE THE ANTICIPATED SHUTDOWN DATE. SHUTDOWNS WILL NOT BE PERMITTED ON FRIDAYS, WEEKENDS OR HOLIDAYS WITHOUT ADVANCE WRITTEN APPROVAL FROM THE ADMINISTRATOR.

19. WHEN CONNECTING TO AN EXISTING WATER LINE WHERE A NEW VALVE IS NOT TO BE INSTALLED, THE EXISTING VALVE MUST BE PRESSURE TESTED TO THESE STANDARDS BY THE CONTRACTOR PRIOR TO CONNECTION. IF AN EXISTING VALVE FAILS THE TEST, THE CONTRACTOR WILL MAKE THE NECESSARY ADDITIONAL PROVISIONS TO TEST THE NEW MAIN PRIOR TO CONNECTING TO THE EXISTING SYSTEM OR THE CONTRACTOR WILL INSTALL A NEW VALVE. NEW MAINS WILL NOT BE CONNECTED TO THE EXISTING SYSTEM UNTIL ALL REQUIRED TESTS HAVE PASSED.

STORM DRAINAGE INSTALLATION GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF CENTRALIA STANDARDS AND THE MOST CURRENT COPY OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.

2. TEMPORARY EROSION/POLLUTION MEASURES SHALL BE REQUIRED FOR THE DURATION OF THE PROJECT.

3. THE CONTRACTOR MUST COMPLY WITH ALL PERMITS AND OTHER REQUIREMENTS OF THE CITY OF CENTRALIA OR OTHER GOVERNING AUTHORITY OR AGENCY.

4. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE CITY OF CENTRALIA PRIOR TO THE START OF STAKING.

5. ALL STORM SEWER MAINS, APPURTENANCES AND RETENTION/DETENTION AREAS SHALL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK. ALL VERTICAL CONTROL SHALL BE ESTABLISHED USING THE 1988 USGS DATUM. STAKING SHALL BE INSPECTED BY THE CITY PRIOR TO THE START OF CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

6. STORM DRAIN PIPE SHALL MEET THE FOLLOWING REQUIREMENTS (USE ONLY THOSE WHICH APPLY):
A. PLAIN CONCRETE PIPE CONFORMING TO AASHTO M 86, CLASS 2.
B. REINFORCED CONCRETE PIPE CONFORMING TO AASHTO M 170.
C. PVC PIPE CONFORMING TO ASTM D 3034 SDR 35, ASTM F 794 OR ASTM F 679. TYPE 1 WITH JOINTS AND GASKETS CONFORMING TO ASTM 3212 AND ASTM F 477.
D. DUCTILE IRON PIPE CONFORMING TO AWWA C 151, THICKNESS CLASS AS SHOWN ON PLANS.

7. SPECIAL STRUCTURES, OIL/WATER SEPARATORS AND OUTLET CONTROLS SHALL BE INSTALLED PER PLANS AND MANUFACTURERS RECOMMENDATIONS.

8. PROVIDE TRAFFIC CONTROL PLAN(S) AS REQUIRED IN ACCORDANCE WITH MUTCD.

9. CALL THE UNDERGROUND LOCATION CENTER AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

10. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATIONS", CONNECTION POINTS WILL BE EXPOSED BY THE CONTRACTOR AND FITTINGS FIELD VERIFIED 48 HOURS PRIOR TO STARTING CONSTRUCTION.

11. ALL STORM LINES WILL BE HIGH-VELOCITY CLEANED AND PRESSURE TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS PRIOR TO PAVING IN CONFORMANCE WITH THE ABOVE-REFERENCED SPECIFICATIONS. (SEE NOTE 1). HYDRANT FLUSHING OF LINES IS NOT AN ACCEPTABLE CLEANING METHOD.

12. TESTING OF THE STORM MAIN WILL INCLUDE TELEVISION INSPECTION OF THE MAIN AT THE CONTRACTOR'S EXPENSE. IMMEDIATELY PRIOR TO TV INSPECTION ENOUGH WATER WILL BE RUN DOWN THE LINE TO FLUSH IT CLEAN. ACCEPTANCE OF THE LINE WILL BE MADE AFTER TV INSPECTION TAPE HAS BEEN REVIEWED AND APPROVED BY THE INSPECTOR. A WATER TEST OF ALL MANHOLES IS ALSO REQUIRED. TESTING WILL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SUBGRADE IS COMPLETED.

TESC NOTES

ECOLOGY 2019 SWMMWW
APPENDIX II-A: RECOMMENDED STANDARD NOTES FOR CONSTRUCTION SWPPP DRAWINGS

1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES).

2. THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC BMPS IS THE RESPONSIBILITY OF THE APPLICANT UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

3. CLEARLY FLAG THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT FOR THE DURATION OF CONSTRUCTION.

4. CONSTRUCT THE ESC BMPS SHOWN ON THIS PLAN IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

5. THE ESC BMPS SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE ESC BMPS AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.

6. THE APPLICANT SHALL INSPECT THE ESC BMPS DAILY AND MAINTAIN THEM AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

7. INSPECT AND MAINTAIN THE ESC BMPS ON INACTIVE SITES A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT (I.E. A 24-HOUR STORM EVENT WITH A 10-YR OR GREATER RECURRENCE INTERVAL).

8. AT NO TIME SHALL THE SEDIMENT EXCEED 60-PERCENT OF THE SUMP DEPTH OR HAVE LESS THAN 6-INCHES OF CLEARANCE FROM THE SEDIMENT SURFACE TO THE INVERT OF THE LOWEST PIPE. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

9. INSTALL STABILIZED CONSTRUCTION ENTRANCES AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	
			DESIGNED J. BETZVOG
			DRAWN J. BETZVOG
			CHECKED R. RAYMOND
			APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-G
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

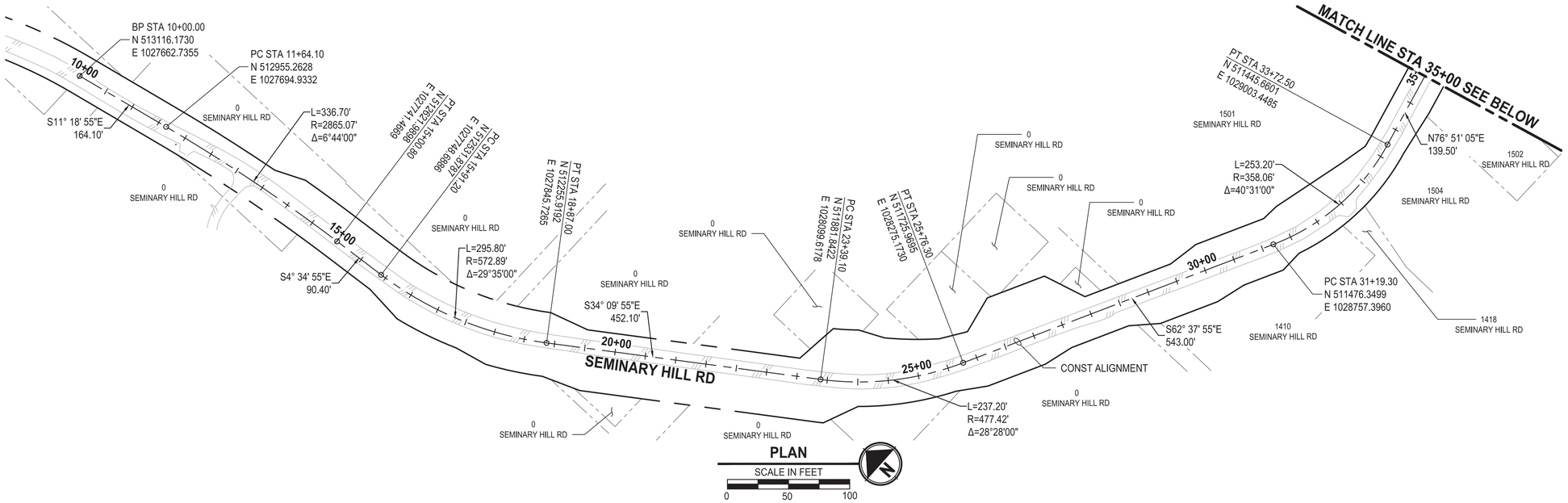
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

GENERAL NOTES

DRAWING NO.
OF 91
G3

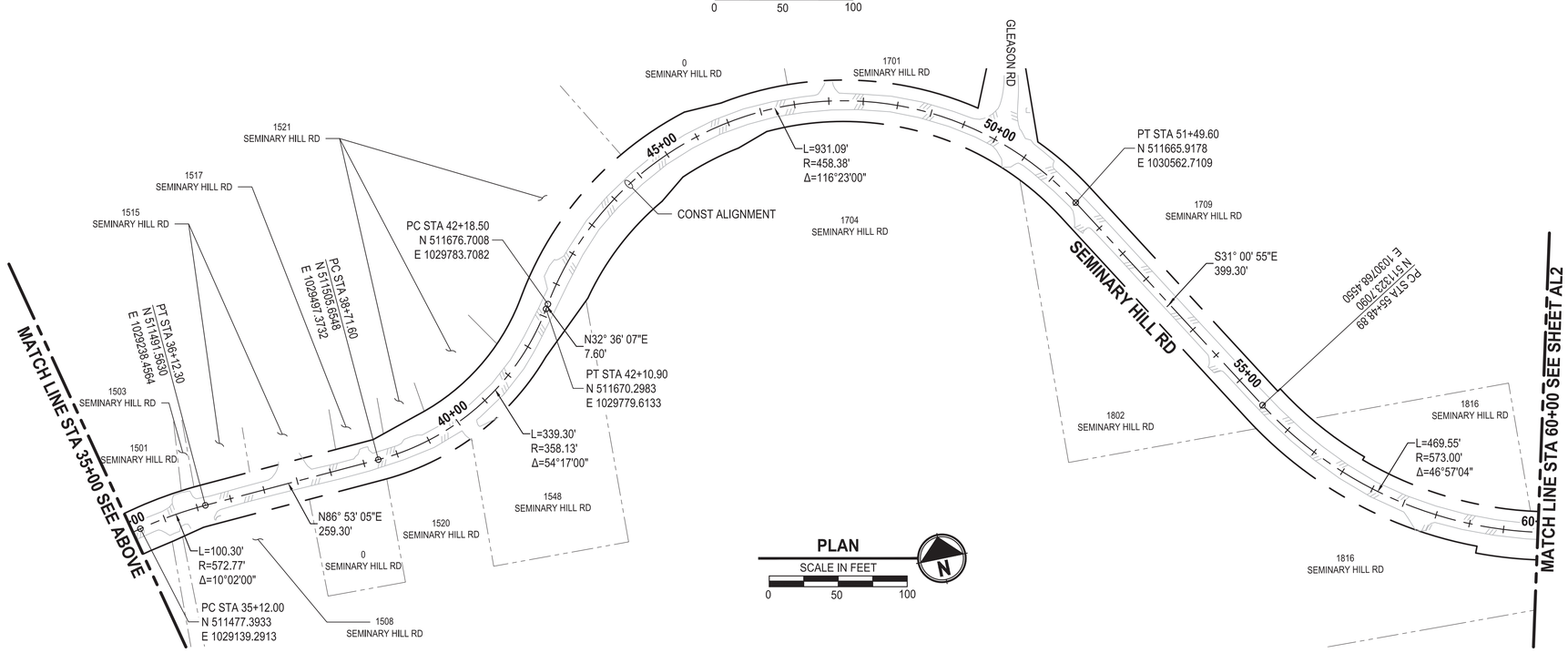
LAYOUT: G3 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 8:16:31 AM



PLAN

SCALE IN FEET

0 50 100



PLAN

SCALE IN FEET

0 50 100

HORIZONTAL DATUM:

HORIZONTAL DATUM FOR THIS SURVEY IS NAD 1983(11), WASHINGTON PLANE SOUTH ZONE COORDINATE SYSTEM, U.S. SURVEY FEET. THE HORIZONTAL DATUM IS BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATIONS "CE3" AND "CE8".

POINT DESIGNATION "CE3"
NORTHING: 515646.091
EASTING: 1025509.297

POINT DESIGNATION "CE8"
NORTHING: 512229.661
EASTING: 1023801.414

VERTICAL DATUM:

VERTICAL DATUM IS NAVD88 BASED ON PUBLISHED INFORMATION
FROM WSDOT, POINT DESIGNATION "CE3"

POINT DESIGNATION "CE3"
ELEVATION: 184.983

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NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-AL
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

SURVEY CONTROL PLAN
STA 10+00 TO 60+00

DRAWING NO.
OF 91
AL1

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: tayokot DATE: Thursday, September 4, 2025 10:58:45 AM
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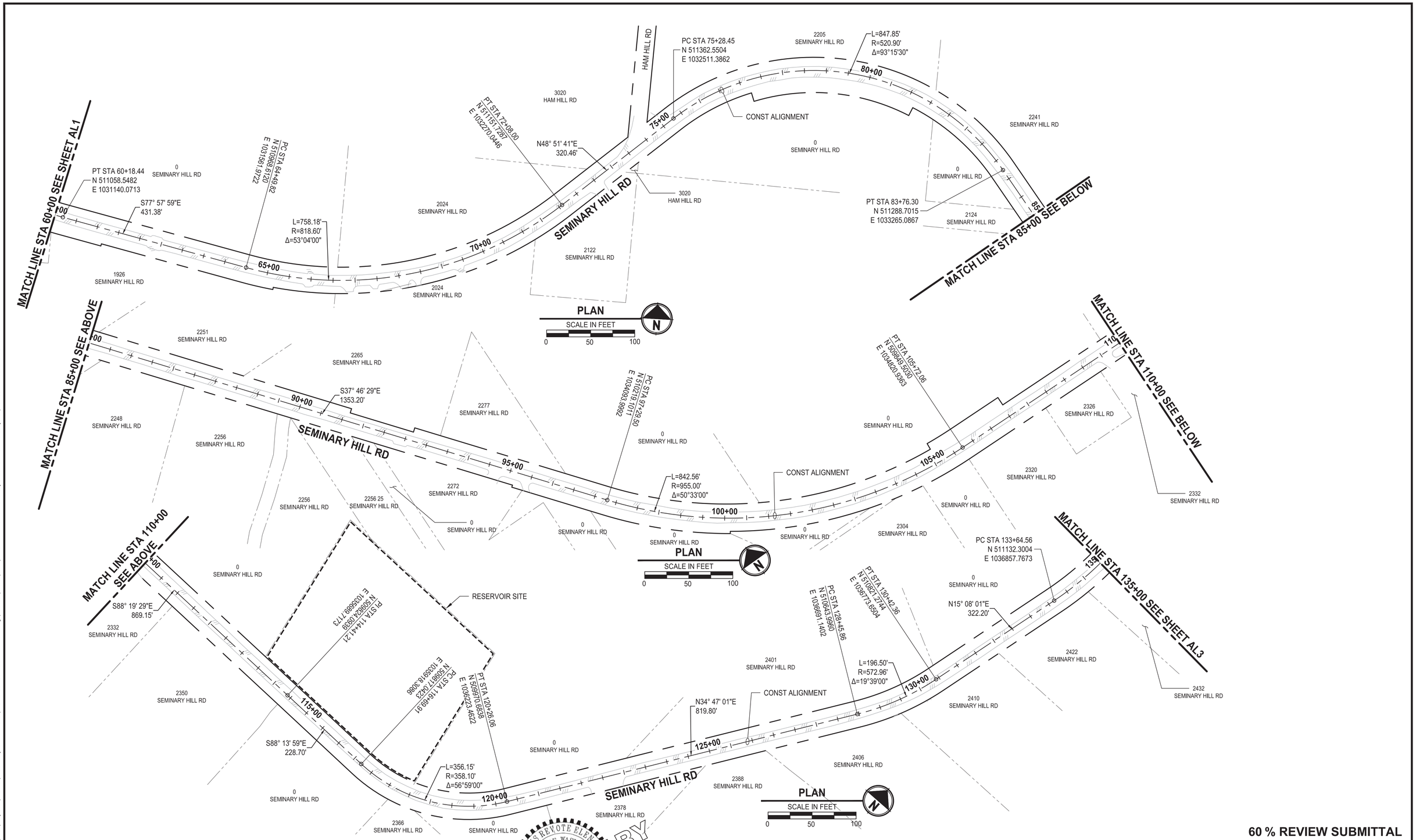

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

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FILE NAME PS3739007P3-AL
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

SURVEY CONTROL PLAN
STA 60+00 TO 135+00

DRAWING NO.
OF 91
AL2

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 8:20:12 AM
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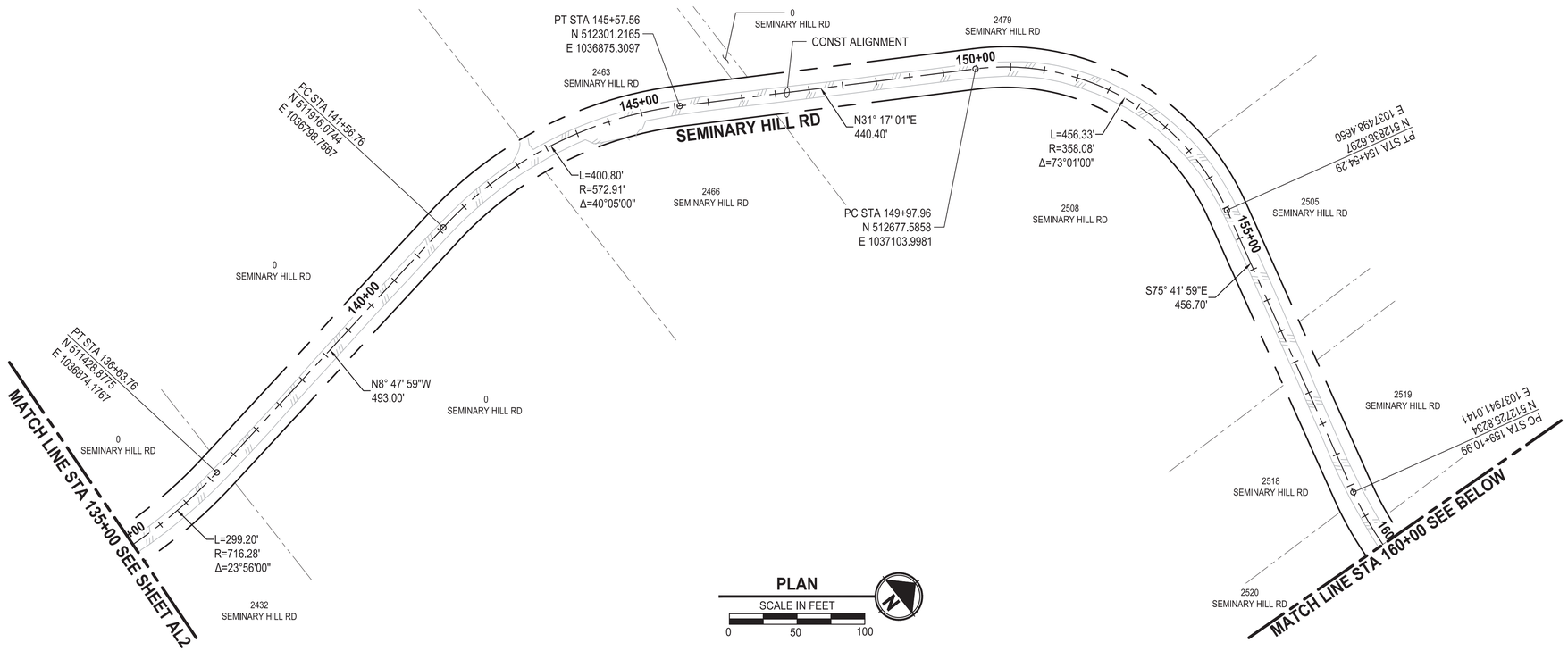

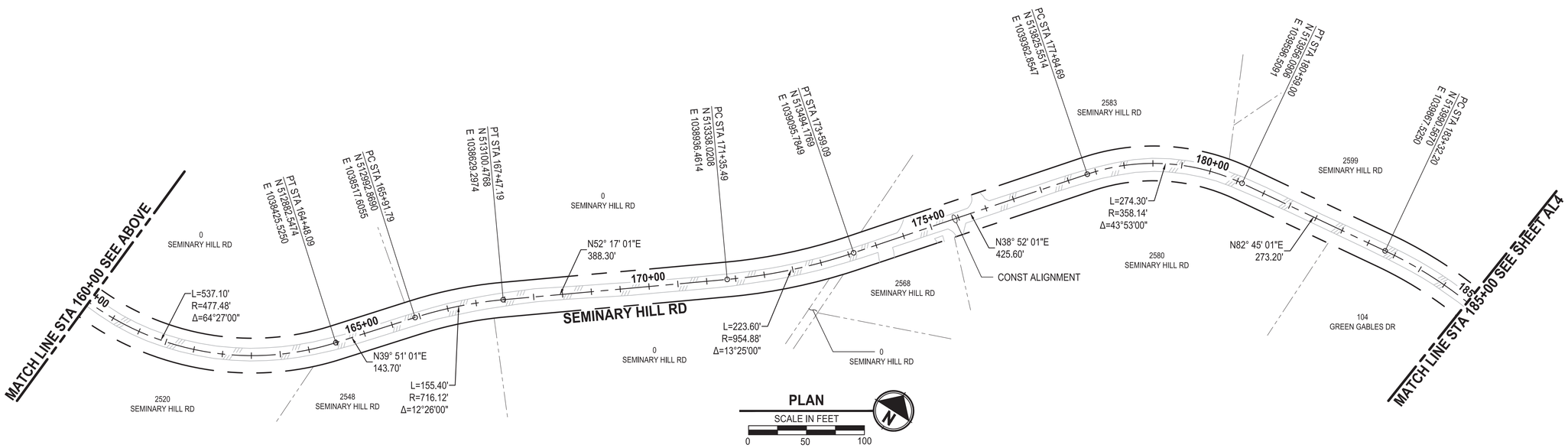

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-AL
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

SURVEY CONTROL PLAN STA 135+00 TO 185+00

DRAWING NO.
OF 91
AL3

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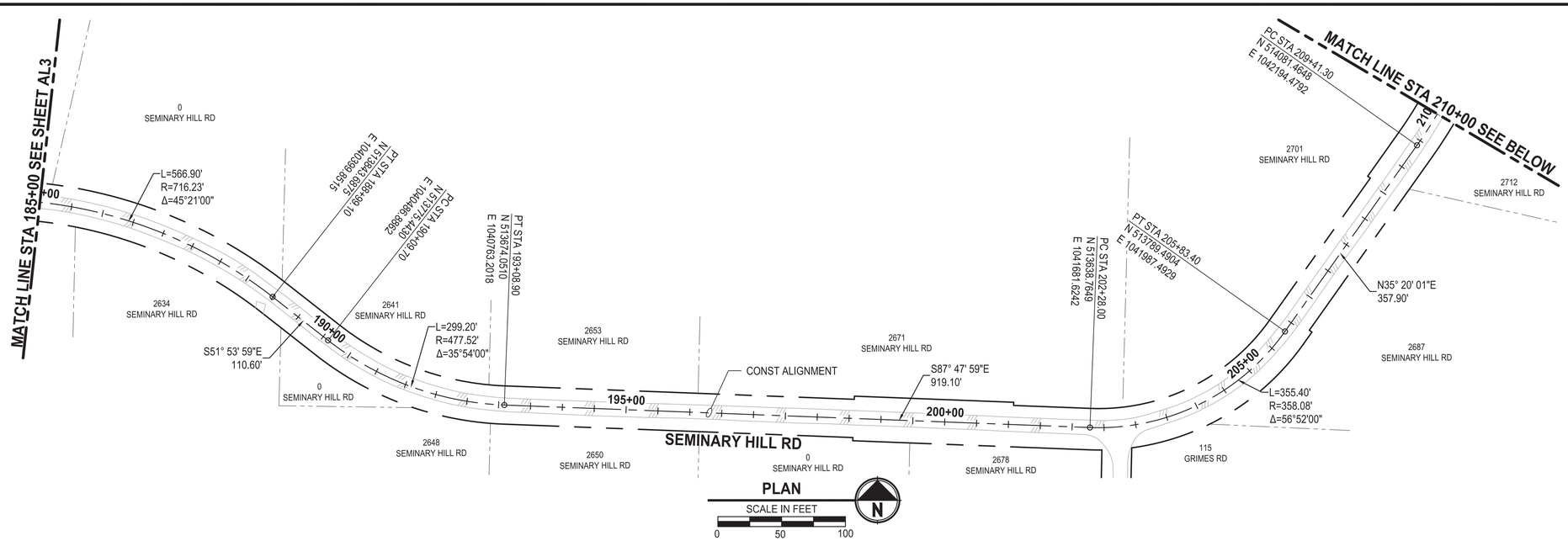

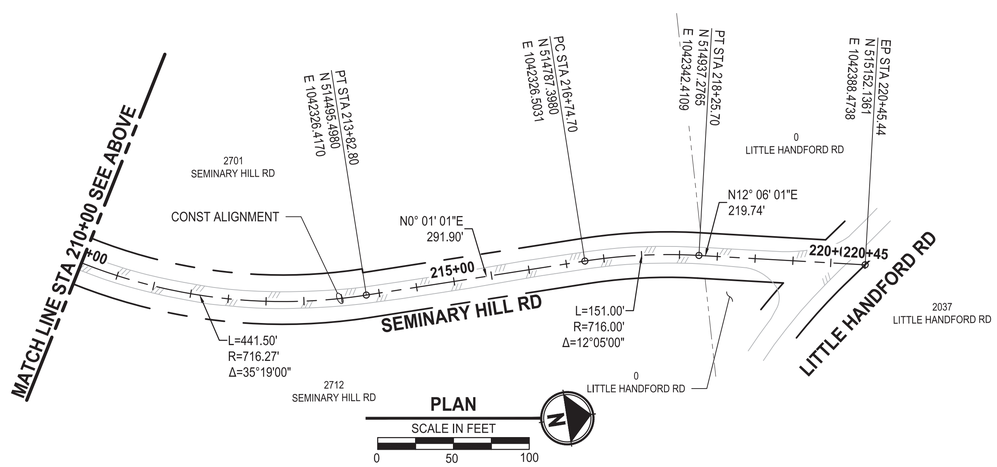

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NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

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FILE NAME PS3739007P3-AL
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
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Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

SURVEY CONTROL PLAN STA 185+00 TO END OF PROJECT

DRAWING NO.
OF 91
AL4

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toylokot DATE: Thursday, September 4, 2025 10:58:15 AM
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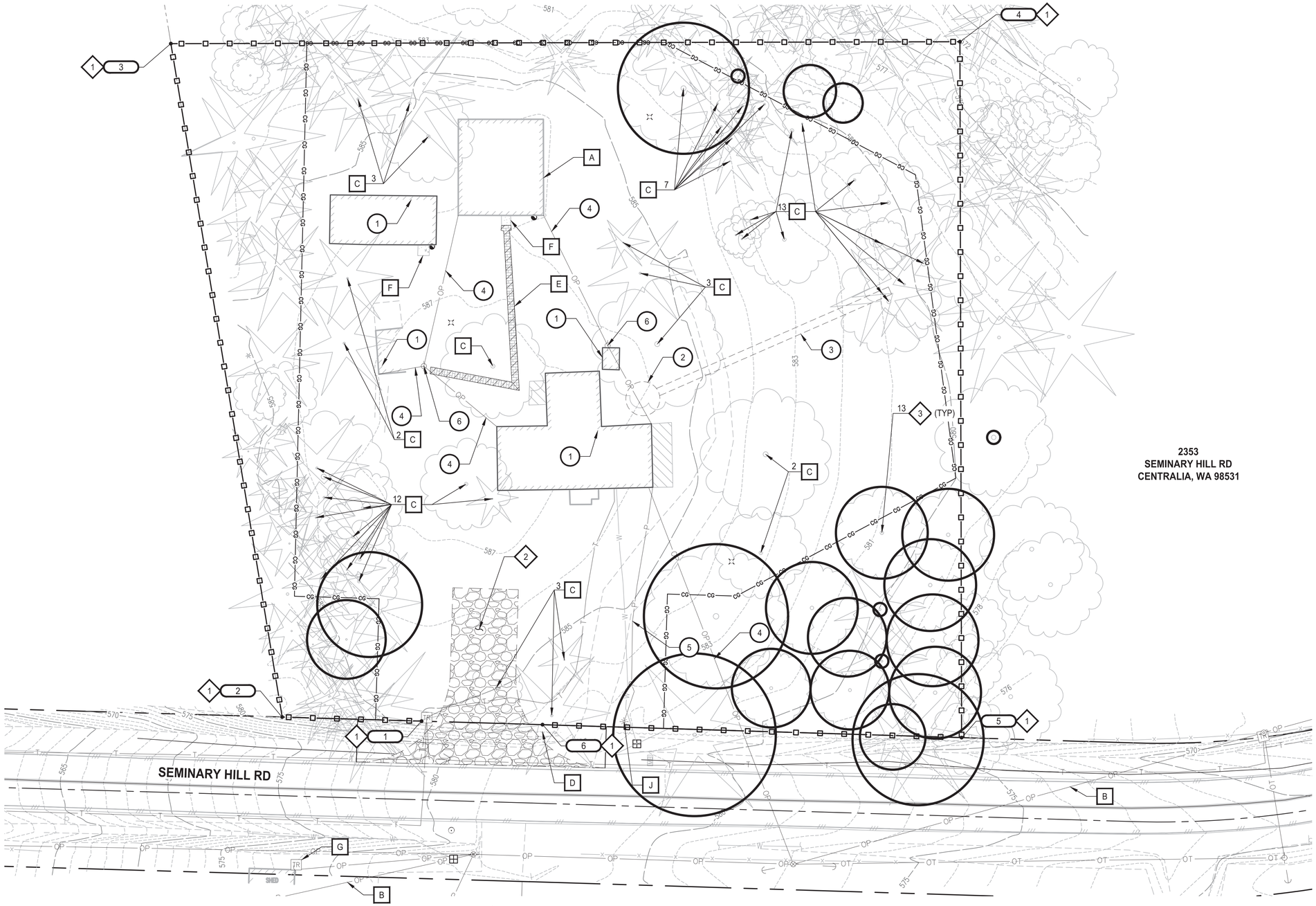

PLAN

SCALE IN FEET

0 20 40

DEMOLITION BY OTHERS NOTES

1. EXISTING STRUCTURE REMOVED BY CITY
2. EXISTING SEPTIC TANK REMOVED BY CITY
3. EXISTING SEPTIC DRAINFIELD REMOVED BY CITY
4. OVERHEAD POWER REMOVED BY CITY
5. UNDERGROUND POWER REMOVED BY CITY
6. LIGHT REMOVED BY CITY

EROSION CONTROL NOTES

1. INSTALL SILT FENCE IN ACCORDANCE W/ CITY OF CENTRALIA STD PLAN NO. 9-04
2. INSTALL CONSTRUCTION ENTRANCE IN ACCORDANCE W/ CITY OF CENTRALIA STD PLAN 9-10
3. INSTALL TREE PROTECTION IN ACCORDANCE W/ WSDOT STD PLAN H-10.11-00

DEMOLITION NOTES

- A PROTECT EXISTING STRUCTURE
- B PROTECT EXISTING UTILITY LINES
- C REMOVE EXISTING TREE, TYP
- D REMOVE EXISTING VEGETATION
- E REMOVE EXISTING PAVERS
- F REMOVE EXISTING CONCRETE
- G RELOCATE ANTENNA. SEE SHT ELX.

NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES
3. EXISTING EXCAVATION OF STRUCTURE FOUNDATION IS UP TO 1 FT IN DEPTH
4. EXISTING EXCAVATION OF SEPTIC TANK IS UP TO 4 FT IN DEPTH
5. EXISTING EXCAVATION OF SEPTIC DRAINFIELD IS UP TO 18 INCHES IN DEPTH

SILT FENCE

POINT #	NORTHING	EASTING	DESCRIPTION
1	509855.3380	1035647.6198	BEGIN
2	509856.8941	1035594.4134	AP
3	510113.6923	1035551.9614	AP
4	510114.4234	1035852.9837	AP
5	509849.0519	1035853.6282	AP
6	509853.9811	1035693.7443	END

LEGEND

- SILT FENCE
- CONSTRUCTION ENTRANCE
- REMOVE EXISTING PAVERS
- CLEARING LIMITS
- TREE PROTECTION

60 % REVIEW SUBMITTAL

NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. ORAMA/ J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME PS3739007P2-C1
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — MARICRIS REVOTE ELENOPOLSKY — STATE OF WASHINGTON — 48367 — REGISTERED PROFESSIONAL ENGINEER

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02

CENTRALIA, WA

DEMOLITION, EROSION CONTROL & SITE PREPARATION PLAN

DRAWING NO.
OF 91

C1

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: betzvph DATE: Thursday, September 4, 2025 12:07:57 PM
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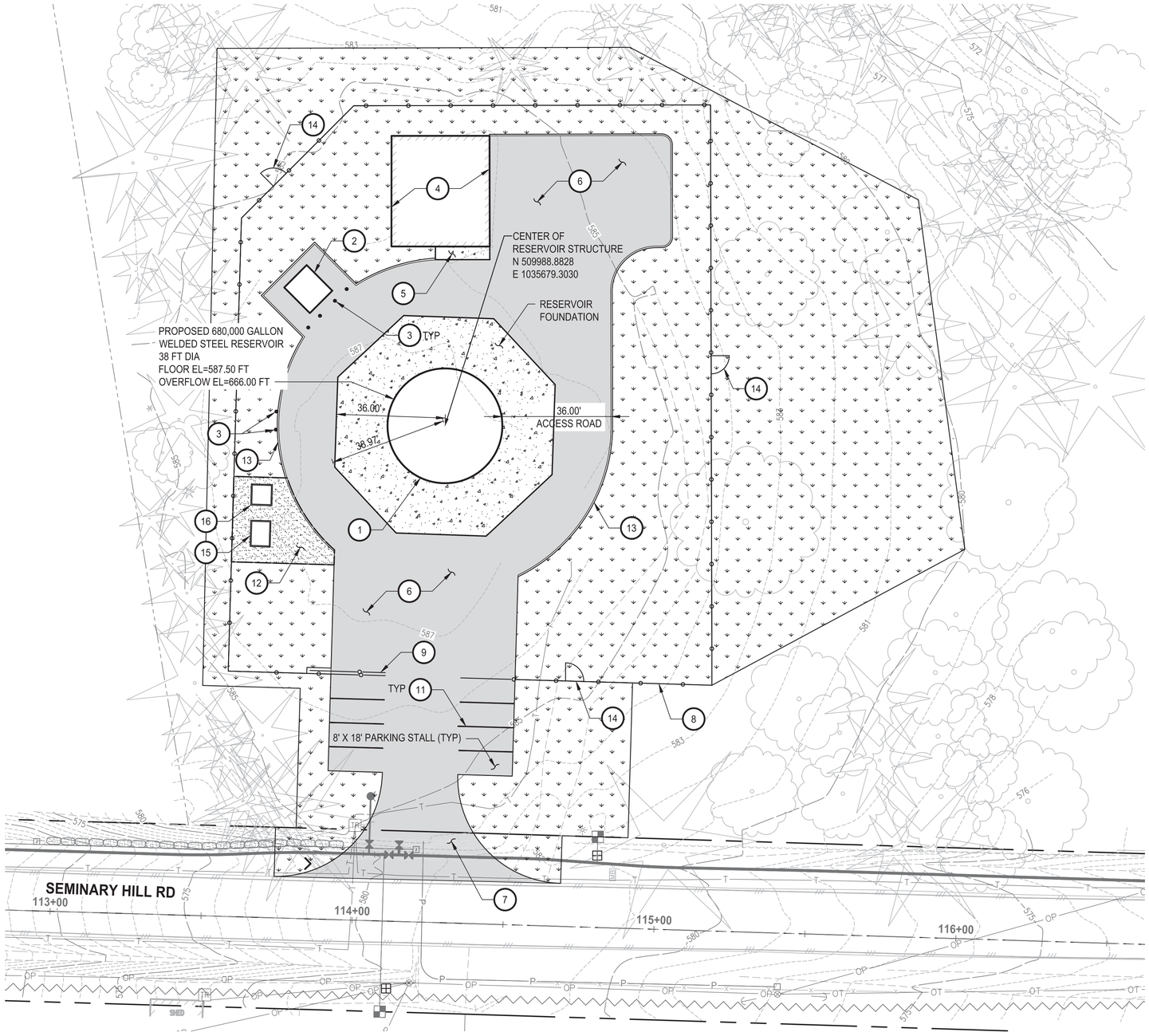

PLAN

SCALE IN FEET

0 20 40

N

CONSTRUCTION NOTES

1. RESERVOIR. 680,000 GALLONS (USEABLE) WELDED STEEL WATER TANK PER AWWA D-100
2. CONTROLS BUILDING. SEE SHEET M5.
3. BOLLARDS. SEE DET 1/C12
4. EXISTING SHOP
5. SIDEWALK IN ACCORDANCE W/ LEWIS COUNTY STANDARD DETAIL 10-1
6. HMA CL ½" PG 58H-22. SEE SECT A/C5
7. DRIVEWAY ENTRANCE IN ACCORDANCE W/ LEWIS COUNTY STANDARD DETAIL 3-3
8. CHAIN LINK FENCE TYPE 3 IN ACCORDANCE W/ WSDOT STANDARD PLAN L-20.10-03
9. RETRACTABLE GATE
10. NOT USED
11. 4" WIDE WHITE PAINT LINE
12. 4" CRUSHED SURFACING TOP COURSE
13. CEMENT CONCRETE TRAFFIC CURB IN ACCORDANCE W/ WSDOT STD PLAN F-10.12-04
14. SINGLE 6 FT. CHAINLINK GATE IN ACCORDANCE W/ WSDOT STD PLAN L-30.10-02
15. CHECK VALVE VAULT. SEE SHEET M6
16. METER VAULT. SEE SHEET M7

LEGEND:

- HMA CL ½" PG 58H-22
- CRUSHED SURFACING TOP COURSE
- CONCRETE FOUNDATION
- SEEDING, FERTILIZING AND MULCHING

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. ORAMA/ J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2–C2
JOB No. 216–3739–007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
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Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

SITE LAYOUT PLAN

DRAWING NO.
OF 91
C2

PATH: U:\PSO\Projects\Clients\3739–City of Centralia\216–3739–007 SemHill PrelimDsg\995vcs\CADD\DWG\PH 2 PLOTTED BY: betzvjph DATE: Thursday, September 4, 2025 12:13:45 PM
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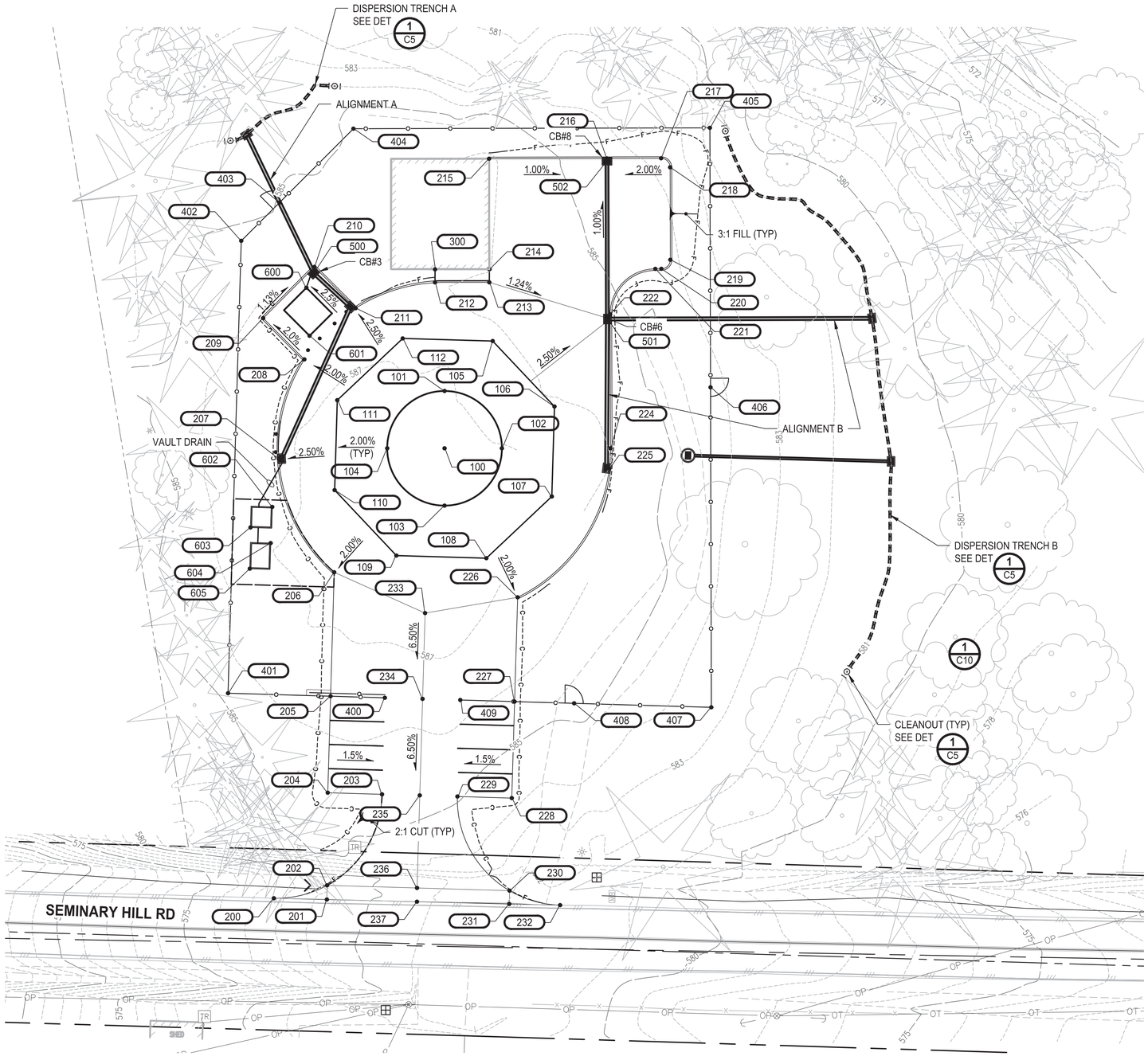


PLAN

SCALE IN FEET 0 20 40

N

SITE DEVELOPMENT

POINT #	NORTHING	EASTING	ELEVATION	DESC
100	509988.8828	1035679.3030	587.50	RES CNTR FF
101	510007.8828	1035679.3030	587.50	RES FG
102	509988.8828	1035698.3030	587.50	RES FG
103	509969.8828	1035679.3030	587.50	RES FG
104	509988.8828	1035660.3030	587.50	RES FG
105	510024.4311	1035695.2607	587.10	RES FND FG
106	510002.7347	1035715.7235	587.10	RES FND FG
107	509972.9247	1035714.8516	587.10	RES FND FG
108	509952.4619	1035693.1539	587.10	RES FND FG
109	509953.3339	1035663.3405	587.10	RES FND FG
110	509975.0283	1035642.8790	587.10	RES FND FG
111	510004.8389	1035643.7509	587.10	RES FND FG
112	510025.3017	1035665.4467	587.10	RES FND FG
200	509839.7621	1035622.7555	577.67	PC, EG
201	509839.3384	1035640.2983	581.62	EG
202	509844.0446	1035640.3880	579.18	FG
203	509874.2126	1035658.5927	583.04	PT, FG
204	509874.7388	1035640.6004	583.31	FG
205	509906.7251	1035641.5359	585.39	FG
206	509947.7982	1035642.7372	586.78	PC, FOC
207	509985.4013	1035624.4136	586.60	FOC
208	510018.3515	1035632.8638	586.78	PT, FOC
209	510032.0163	1035619.1989	586.39	FOC
210	510048.9869	1035636.1694	586.12	FOC
211	510035.3220	1035649.8343	586.60	FOC
212	510043.8828	1035676.1440	586.78	FL SW, FOC
213	510043.8828	1035694.1457	586.78	FL SW
214	510048.2240	1035694.1457	586.03	FL SW
215	510084.8680	1035694.0550	586.11	FOC
216	510084.9629	1035733.1289	585.72	FOC
217	510085.0064	1035751.0548	586.08	PC, FOC
218	510082.0137	1035754.0621	586.17	PT, FOC
219	510051.3697	1035754.1365	586.52	PC, FOC
220	510048.3624	1035751.1438	586.50	PC, FOC
221	510048.3576	1035749.1447	586.46	PC, FOC
222	510033.3212	1035734.1812	586.26	PT, FOC
224	509988.8829	1035734.3030	586.11	PT, FOC

SITE DEVELOPMENT

POINT #	NORTHING	EASTING	ELEVATION	DESC
225	509982.1993	1035733.8950	586.51	FOC
226	509939.5016	1035703.5206	586.78	PT, FOC
227	509904.9418	1035702.5099	585.39	FG
228	509872.9555	1035701.5743	583.31	FG
229	509873.4817	1035683.5820	583.04	FG PC
230	509842.2764	1035700.8459	581.65	FG
231	509837.8790	1035700.7397	581.62	EG
232	509837.4718	1035717.6017	581.62	PT, EG
233	509934.2622	1035672.8543	586.78	GRAD PNT
234	509905.8335	1035672.0229	584.93	GRAD PNT
235	509873.8471	1035671.0874	582.85	GRAD PNT
236	509843.1730	1035670.1903	580.86	GRAD PNT
237	509838.6171	1035670.1718	0.00	EG
300	510048.2060	1035676.1646	586.31	TOP SW
400	509906.1989	1035659.5282	585.12	FNC
401	509907.7187	1035607.5645	585.27	FNC CRNR
402	510057.6550	1035611.9358	585.17	FNC CRNR
403	510070.3358	1035624.6228	585.17	GATE
404	510094.8110	1035649.1100	0.00	FNC CRNR
405	510095.0979	1035767.2349	0.00	FNC CRNR
406	510009.0982	1035767.4438	0.00	GATE
407	509903.0351	1035767.7014	0.00	FNC CRNR
408	509904.3644	1035722.2508	583.36	GATE
409	509905.4680	1035684.5175	585.12	FNC
500	510046.9834	1035635.9337	586.12	CB#1 TYPE 1
501	510031.7354	1035733.2688	586.26	CB#3 TYPE 1
502	510084.0462	1035733.1312	585.72	CB#2 TYPE 1
600	510042.0926	1035633.5178	586.75	CTRL BLDG CRNR
601	510026.1827	1035634.5784	586.75	CTRL BLDG CRNR
602	509969.4528	1035622.2106	586.80	MTR VLT CRNR
603	509962.6604	1035615.0089	586.80	MTR VLT CRNR
604	509957.4627	1035621.6948	586.80	VLV VLT CRNR
605	509948.9914	1035614.7742	586.80	VLV VLT CRNR

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. ORAMA/ J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-C3
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — MARICRIS REVOTE ELENOR — STATE OF WASHINGTON — 48367 — REGISTERED PROFESSIONAL ENGINEER

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

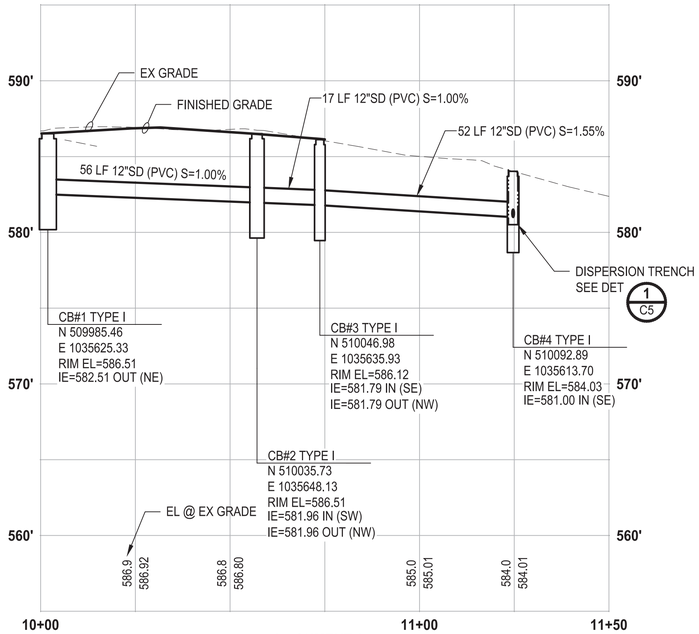
GRADING, PAVING, AND DRAINAGE PLAN

DRAWING NO. ##### OF 91
C3

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: betzvjoh DATE: Thursday, September 4, 2025 10:04:10 PM
LAYOUT: C3

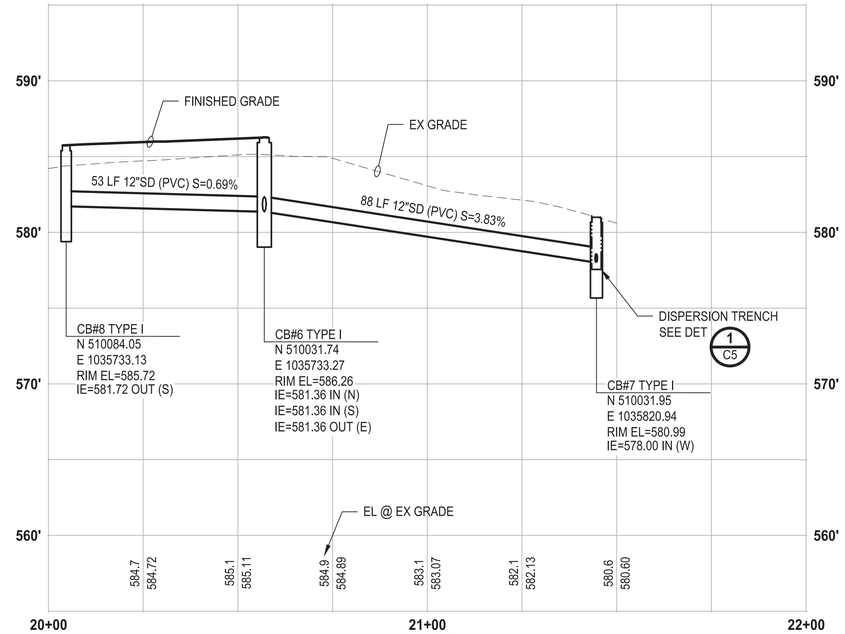
GENERAL NOTES

1. INSTALL STORM DRAIN PIPE PER SECT B/C5



ALIGNMENT A
PROFILE

HORIZ: 1"=20'
VERT: 1"=5'



ALIGNMENT B
PROFILE

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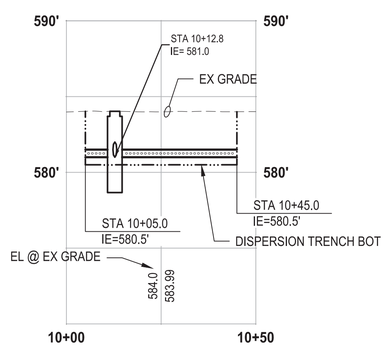
VERT: 1"=5'



DISPERSION TRENCH A
PROFILE

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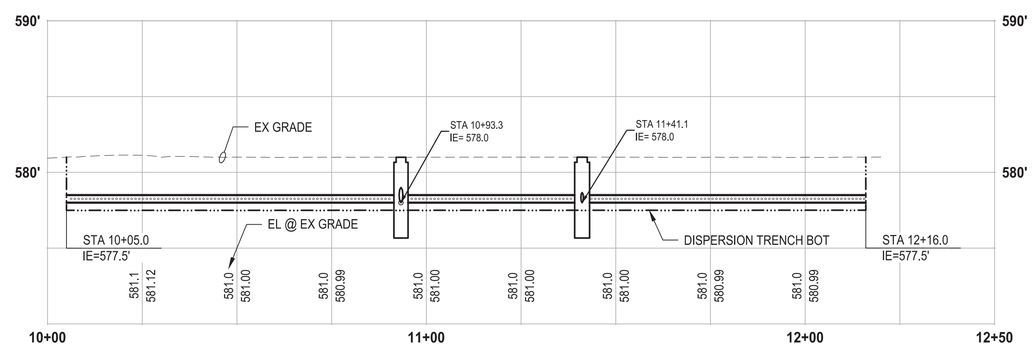
VERT: 1"=5'



DISPERSION TRENCH B
PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

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REVISIONS	DATE	BY

DESIGNED M. ORAMA/ J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-C3
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — MARICRIS REVOTE ELENOR — STATE OF WASHINGTON — 48367 — REGISTERED PROFESSIONAL ENGINEER

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

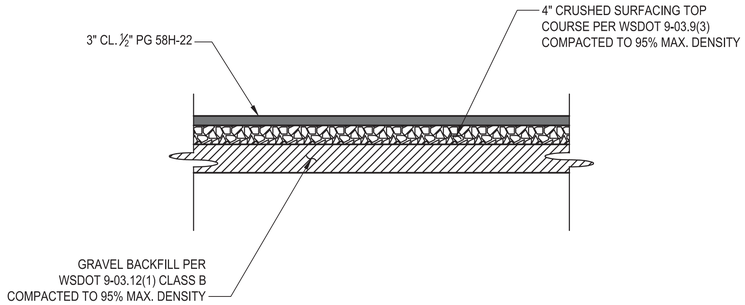
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

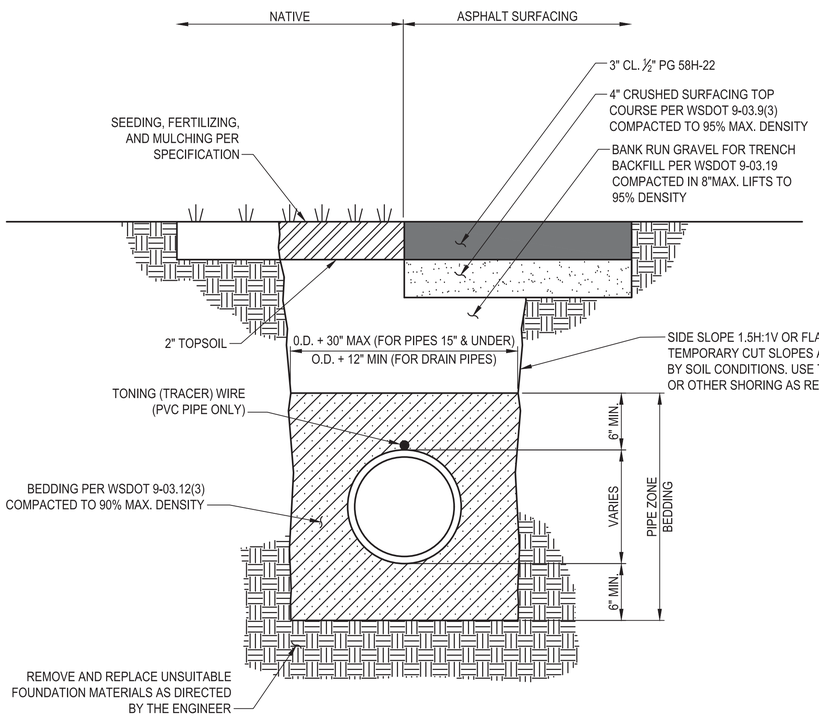
DRAINAGE PROFILES

DRAWING NO. ##### OF 91
C4

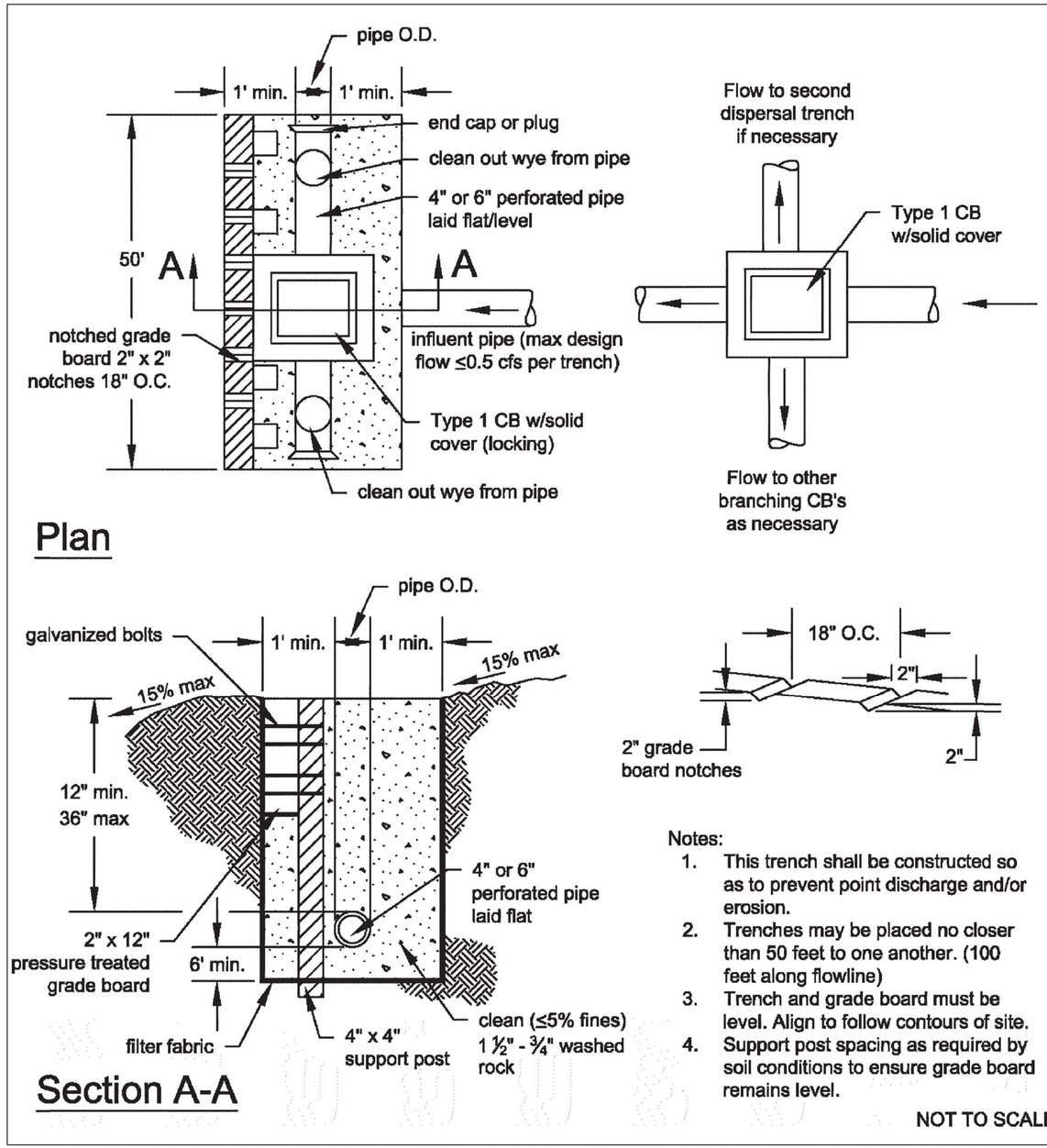
PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: betzvjoh DATE: Thursday, September 4, 2025 10:00:04 PM
LAYOUT: C4



ASPHALT PAVEMENT SECTION A C2
NTS



TYPICAL PIPE TRENCH SECTION B TYP
NTS



DISPERSION TRENCH DETAIL 1 C3
NTS

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CHECKED R. RAYMOND
APPROVED #####

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FILE NAME PS3739007P2-C5
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
MARCUS REVOTE ELLENBURG
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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

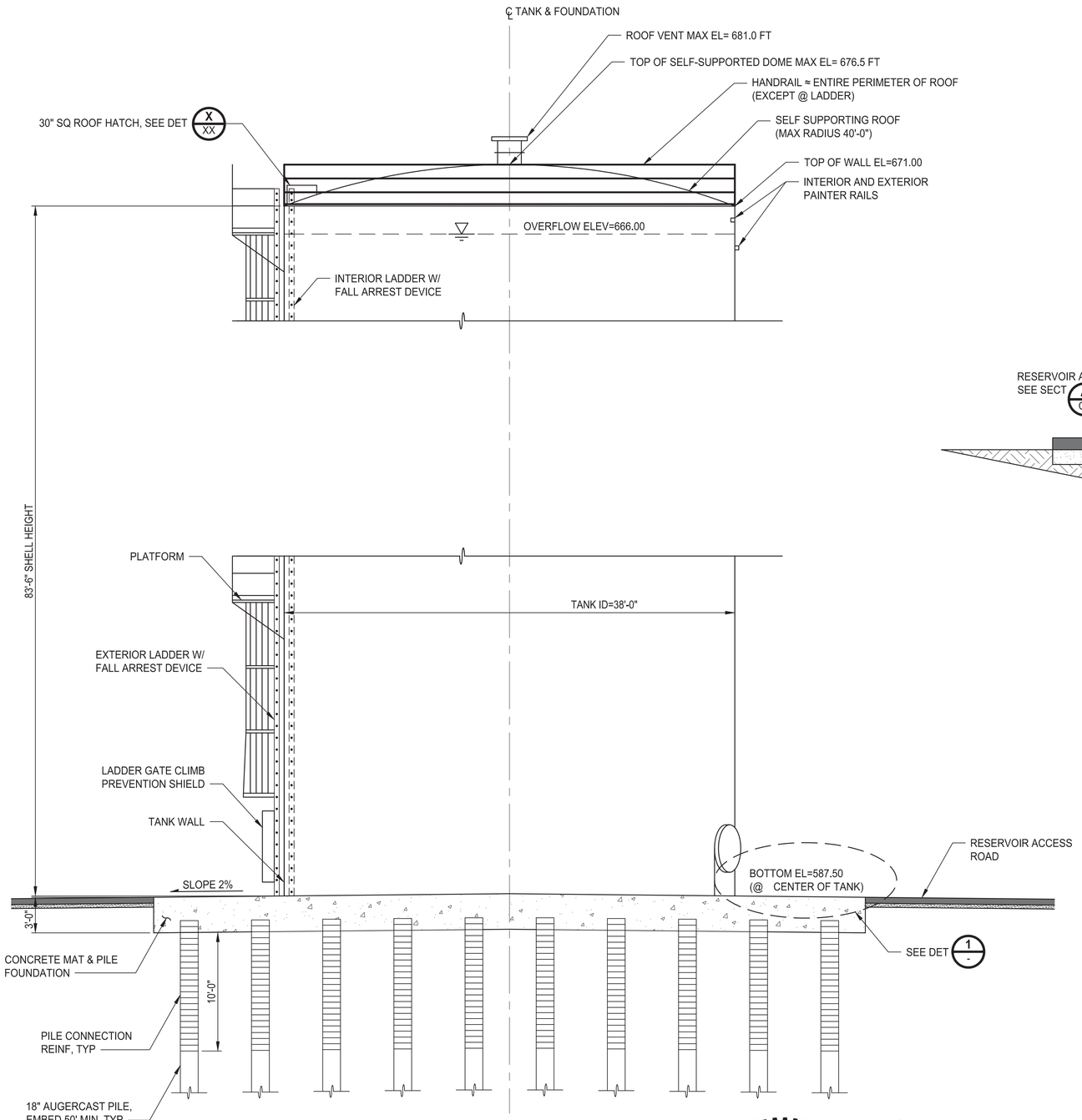
GRADING, PAVING, AND DRAINAGE DETAILS

DRAWING NO.
OF 91
C5

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemiHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: betzvjph DATE: Thursday, September 4, 2025 12:36:54 PM
LAYOUT: C5

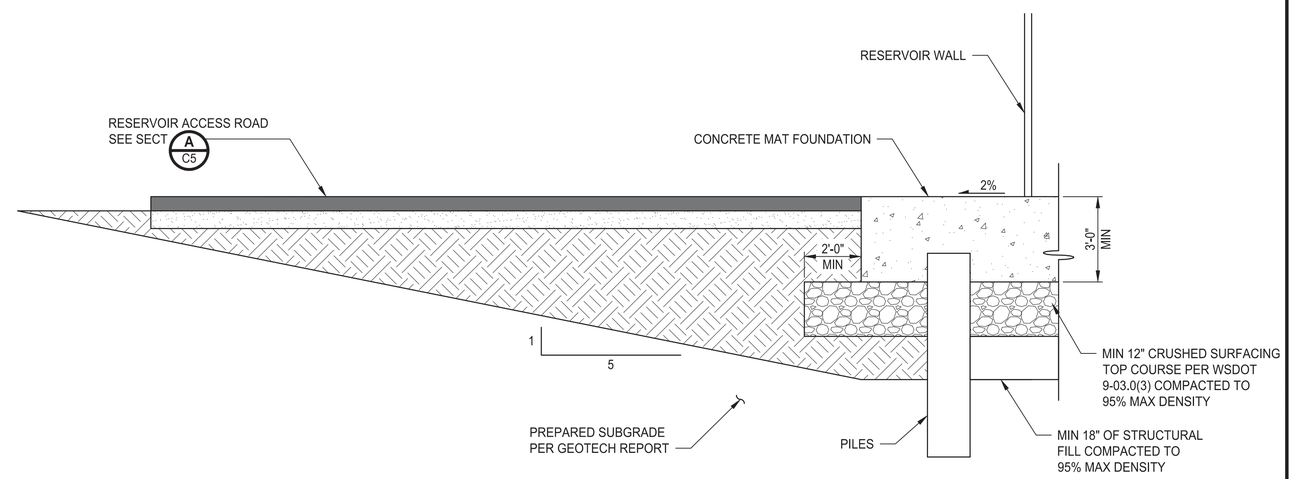
NOTES

1. SEE STRUCTURAL DRAWINGS FOR FOUNDATION DETAILS.



RESERVOIR ELEVATION

3/16"=1'-0"



RESERVOIR SUBGRADE DETAIL 1/-

3/8"=1'-0"

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DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

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FILE NAME PS3739007P2-C6
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — MARICRIS REVOTE ELENOR — STATE OF WASHINGTON — 48367 — REGISTERED PROFESSIONAL ENGINEER

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Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER

DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02

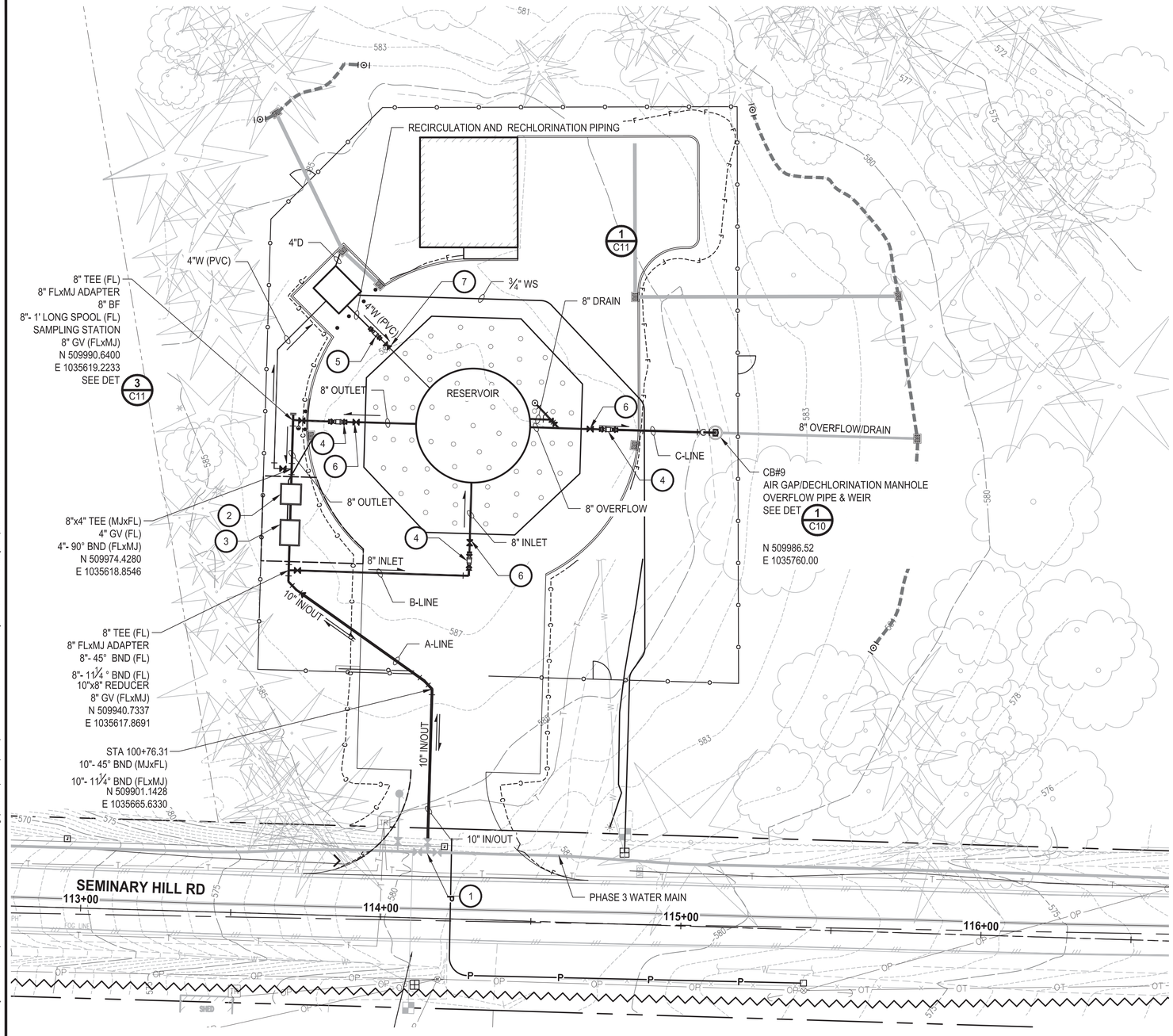
CENTRALIA, WA

RESERVOIR SECTION AND DETAILS

DRAWING NO. ##### OF 91

C6

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: betzvph DATE: Thursday, September 4, 2025 12:38:36 PM
LAYOUT: C6



CONSTRUCTION NOTES

1. CONNECT TO PROPOSED WATER MAIN
2. METER VAULT. SEE SHEET M7.
3. CHECK VALVE VAULT. SEE SHEET M6.
4. 8" FLEXIBLE EXPANSION JOINT
5. 4" FLEXIBLE EXPANSION JOINT
6. 8" GATE VALVE (MJ)
7. 4" GATE VALVE (MJ)

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. ORAMA/ J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-C8
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
MARICRIS REVOTE ELENOR
STATE OF WASHINGTON
48367
REGISTERED PROFESSIONAL ENGINEER

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

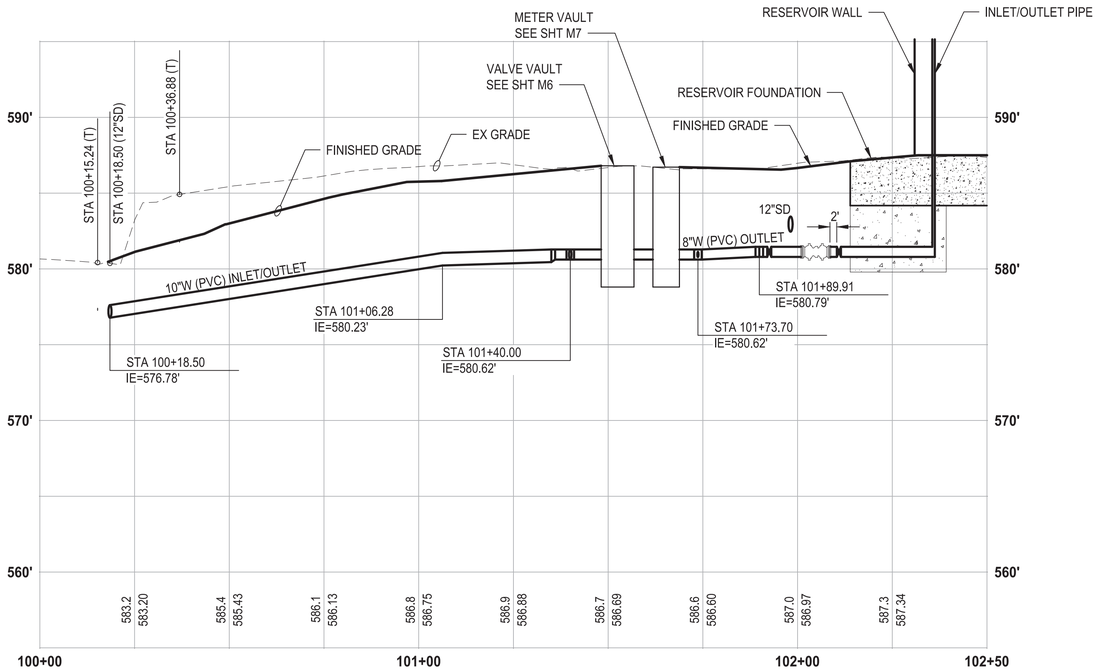
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

SITE PIPING PLAN

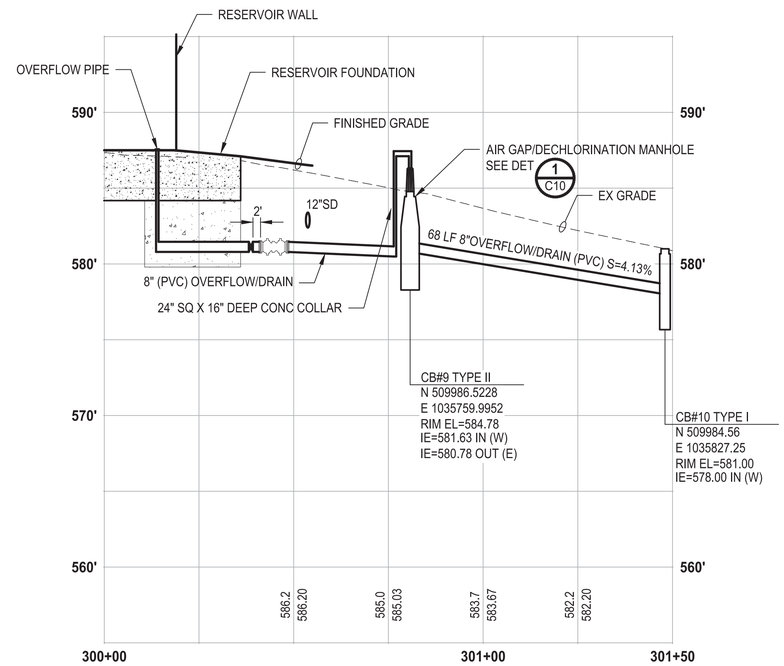
DRAWING NO.
OF 91
C8

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: betzvjoh DATE: Thursday, September 4, 2025 11:00:24 PM
LAYOUT: C8



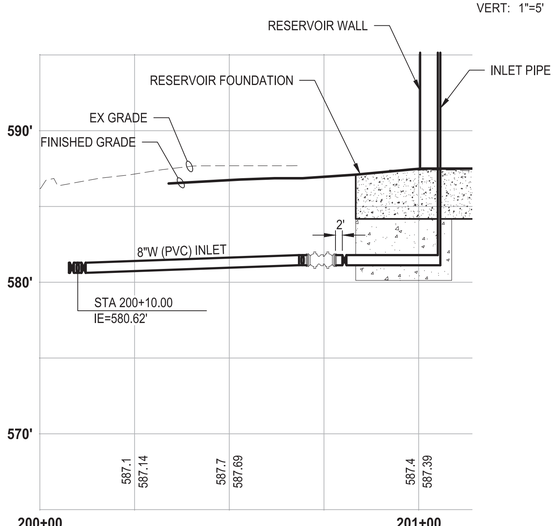
INLET/OUTLET (A-LINE)
PROFILE

HORIZ: 1"=20'
VERT: 1"=5'



OVERFLOW/DRAIN (B-LINE)
PROFILE

HORIZ: 1"=20'
VERT: 1"=5'



INLET (C-LINE)
PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

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NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. ORAMA/ J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-C8
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — MARCUS REVOTE ELENDORF — STATE OF WASHINGTON — 48367 — REGISTERED PROFESSIONAL ENGINEER

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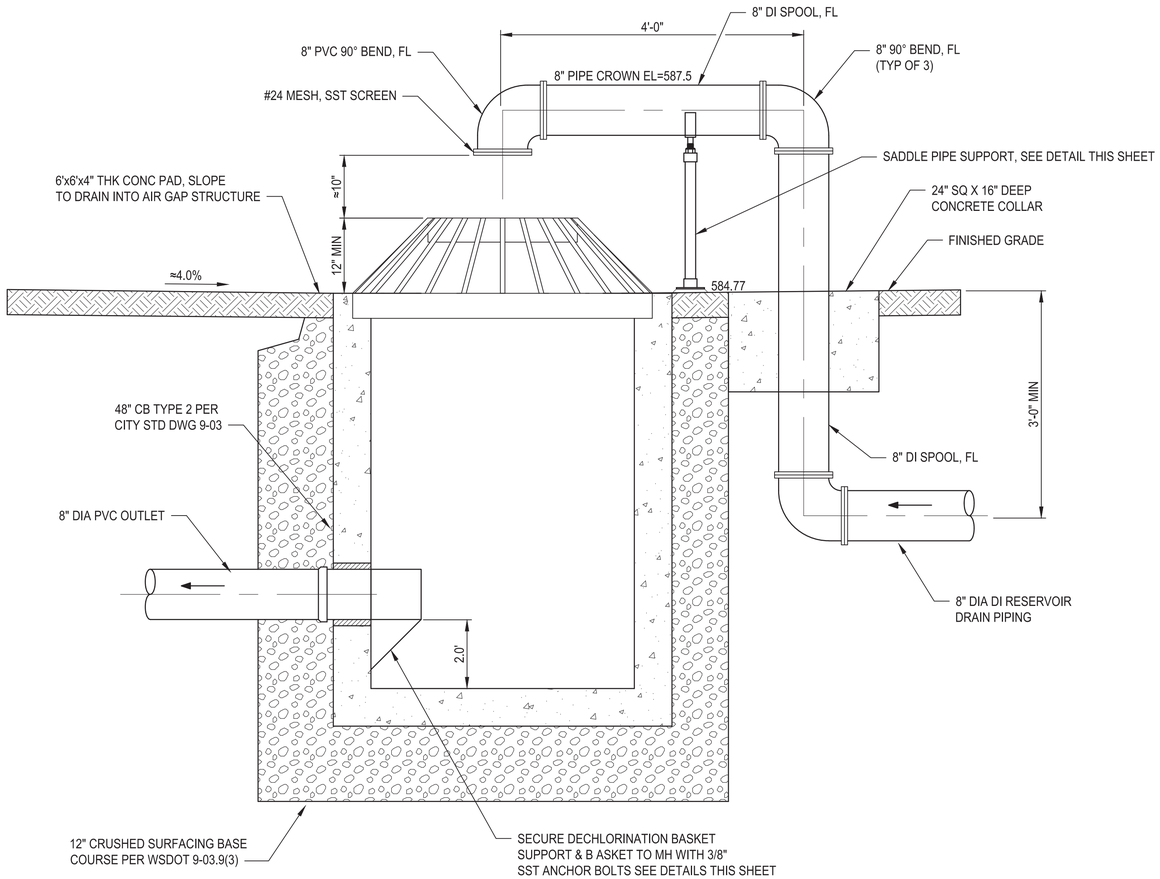
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

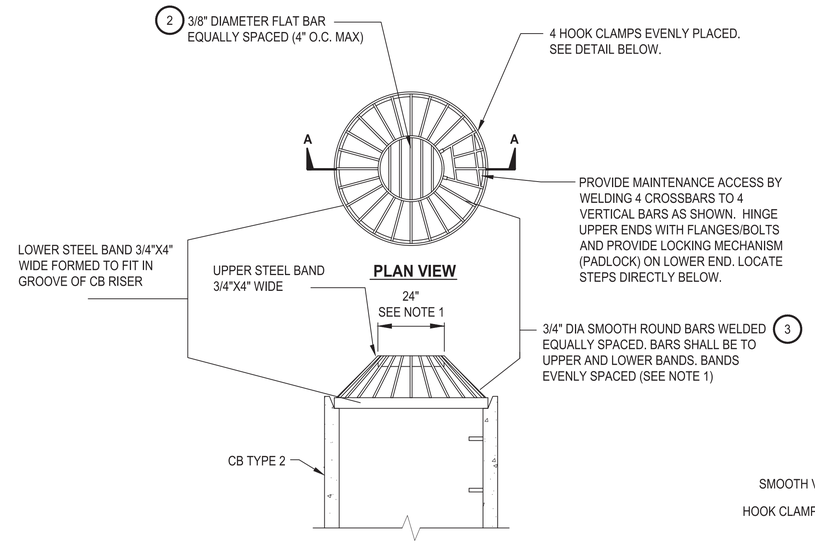
SITE PIPING PROFILES

DRAWING NO.
OF 91
C9

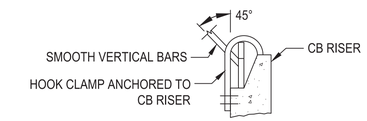
PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDwg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: betzvjoh DATE: Thursday, September 4, 2025 11:06:36 PM
LAYOUT: C9



AIR GAP DECHLORINATION STRUCTURE
DETAIL 1
NO SCALE



SECTION A-A



DETAIL HOOK CLAMP

NOTES

1. TO BE PLACED ON TOP OF AIR GAP DECHLORINATION STRUCTURE.

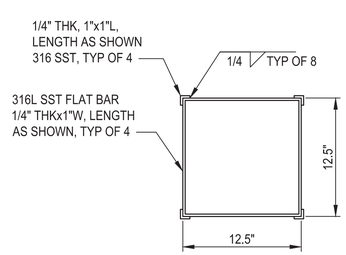
2. 3 /8" x 2" FLAT BAR.

3. 3 /4" ROUND BAR.

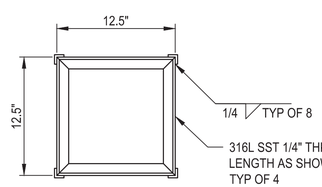
4. 4 - 5 /8" HOLE FOR MOUNTING.

5. ALL MATERIAL 6061 ALUMINUM.
6. MUST BE ANCHORED TO CONCRETE IN REMOVABLE FASHION WITH CORROSION-RESISTANT HARDWARE.
7. PRODUCT: ATWOOD FABRICATION OR EQUAL.

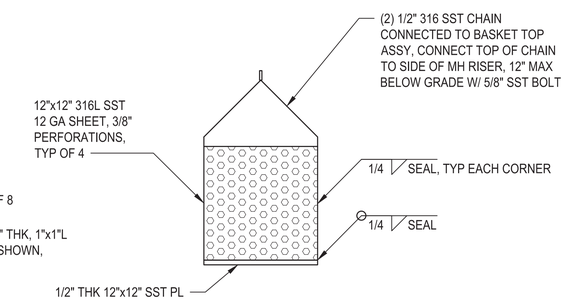
DEBRIS CAGE
DETAIL 2
NTS



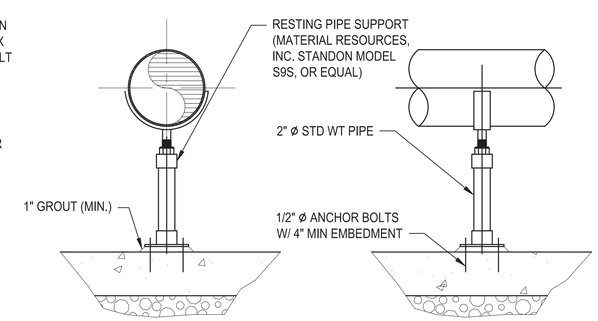
SUPPORT SECTION - UPPER
DETAIL 1
1 1/2"=1'-0"



SUPPORT SECTION - LOWER
DETAIL 2
1 1/2"=1'-0"



DECHLORINATION BASKET
DETAIL 3
1 1/2"=1'-0"



SADDLE PIPE SUPPORT
DETAIL 4
NO SCALE

NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE FABRICATION AND INSTALLATION OF THE DECHLORINATION BASKET AND SUPPORT SYSTEM AND ENSURING THE INTENDED FUNCTION OF THE BASKET. THE BASKET SHALL ALLOW AT LEAST xxx GPM OF FLOW THROUGH THE OUTGOING PIPE AND BASKET PENETRATIONS.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. ORAMA/ J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-C10
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — MARCUS REVOTE ELEMENTARY — STATE OF WASHINGTON — 48367 — REGISTERED PROFESSIONAL ENGINEER

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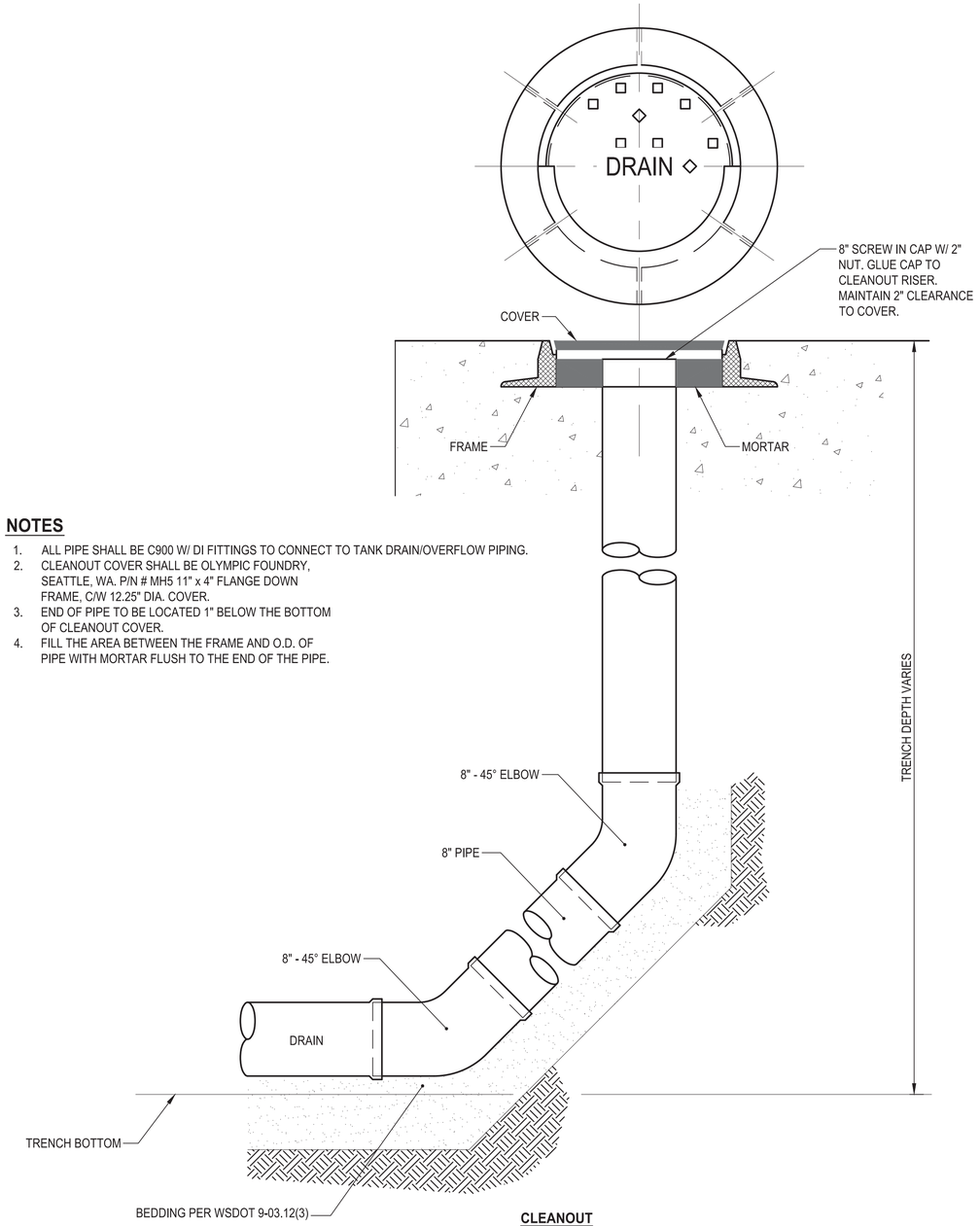
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

AIR GAP-DECHLORINATION MANHOLE DETAILS

DRAWING NO. ##### OF 91
C10

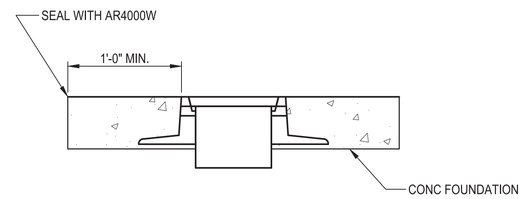
LAYOUT: C10 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: betzvjoh DATE: Thursday, September 4, 2025 12:48:17 PM



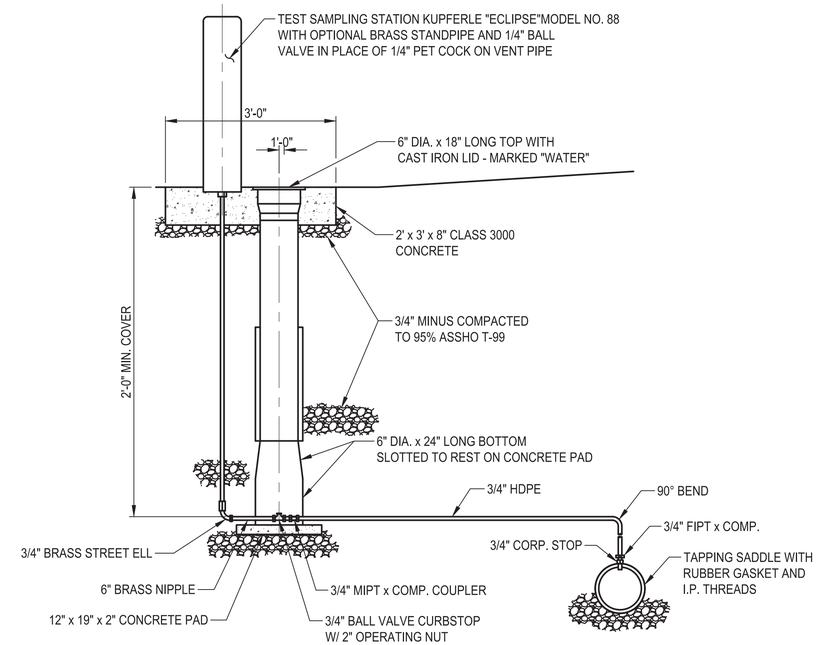
NOTES

1. ALL PIPE SHALL BE C900 W/ DI FITTINGS TO CONNECT TO TANK DRAIN/OVERFLOW PIPING.
2. CLEANOUT COVER SHALL BE OLYMPIC FOUNDRY, SEATTLE, WA. P/N # MH5 11" x 4" FLANGE DOWN FRAME, C/W 12.25" DIA. COVER.
3. END OF PIPE TO BE LOCATED 1" BELOW THE BOTTOM OF CLEANOUT COVER.
4. FILL THE AREA BETWEEN THE FRAME AND O.D. OF PIPE WITH MORTAR FLUSH TO THE END OF THE PIPE.

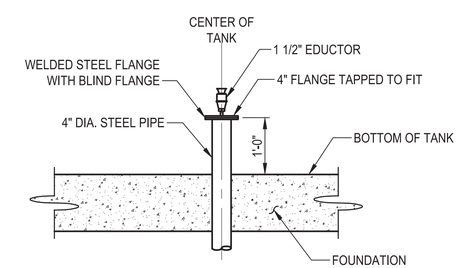
CLEANOUT DETAIL 1
NTS



CLEANOUT COVER IN CONCRETE DETAIL 2
NTS



TEST SAMPLING STATION DETAIL 3
NTS C5



EDUCTOR DETAIL 4
NTS

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	REVISIONS	DATE	BY

DESIGNED M. ORAMA/ J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-C11
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — MARCUS REVOTE ELENCHUK — STATE OF WASHINGTON — 48367 — REGISTERED PROFESSIONAL ENGINEER

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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
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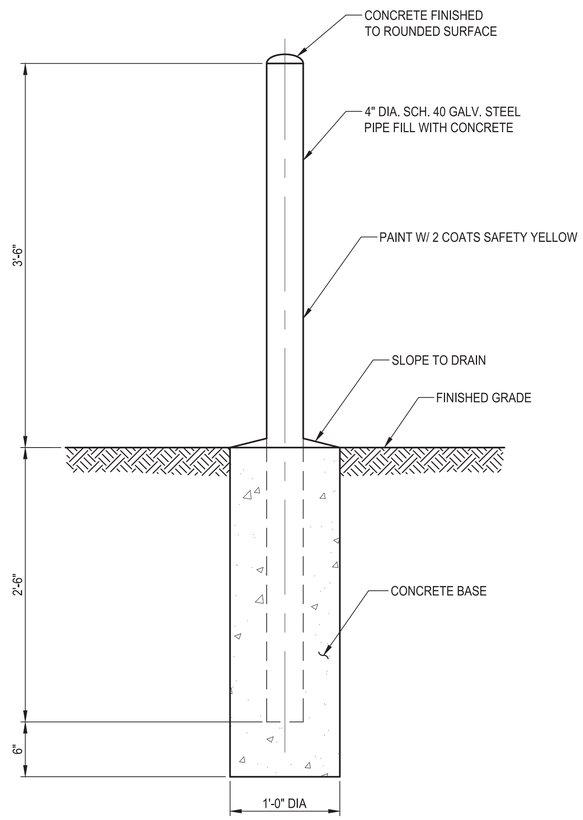
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

SITE PIPING DETAILS

DRAWING NO. ##### OF 91
C11

LAYOUT: C11 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: betzvjoh DATE: Thursday, September 4, 2025 12:47:19 PM



BOLLARD
DETAIL 1
NTS

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. ORAMA/ J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-C12
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
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48367
REGISTERED PROFESSIONAL ENGINEER

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

CIVIL DETAILS

DRAWING NO.
OF 91
C12

LAYOUT: C12 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: betzvjoh DATE: Thursday, September 4, 2025 12:49:20 PM

GENERAL STRUCTURAL NOTES:

DESIGN CRITERIA

APPLICABLE BUILDING CODES
2021 INTERNATIONAL BUILDING CODE, WASHINGTON STATE AMENDMENTS.

OCCUPANCY F2, RISK CATEGORY IV ESSENTIAL FACILITY.

DESIGN LOADS
IMPORTANCE FACTORS: Is = 1.20, Iw = 1.00, Ie = 1.50.

LOADS
ROOF LIVE OR SNOW LOAD . . . . . 25 psf
CONCRETE GROUND FLOOR . . . . . 250 psf
WALKING & STAIRS . . . . . 100 psf

WIND LOADS
BASIC WIND SPEED = 115 MPH, EXPOSURE = C

SEISMIC LOADS
CENTRALIA, WA
SITE CLASS D, Ie = 1.50
Sds = 0.82
Sd1 = 0.89
SITE CLASS E

FOUNDATIONS

BASED ON "GEOTECHNICAL ENGINEERING SERVICES FOR CITY OF CENTRALIA"
BY GEOGNGINEERS, DATED NOV 21, 2024.
SOIL BEARING PRESSURE . . . . . 2500 psf
LATERAL PASSIVE BEARING PRESSURE . . . . . 300 pcf
SOIL ACTIVE PRESSURE, YIELDING WALLS . . . . . 30 H
SOIL FRICTION FACTOR, SLIDING 0.35

CONTINUOUS INSPECTION OF FILL PLACED AND COMPACTED UNDER BUILDING SLAB AND FOOTINGS REQUIRED BY AN APPROVED, INDEPENDENT TESTING AGENCY. FILL SHALL MEET SPECIFICATIONS AND SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY. FILL SHALL BE PLACED IN MAX. 8" LIFTS. DENSITY TESTS SHALL BE TAKEN AT 5-FOOT INTERVALS AROUND THE PERIMETER OF THE PROPOSED STRUCTURE AND AT 10 EVENLY SPACED LOCATIONS UNDER THE SLAB.

INSPECTIONS

CONTRACTOR SHALL BE RESPONSIBLE FOR REQUESTING AND COORDINATING REQUIRED BUILDING DEPARTMENT INSPECTIONS. IN ADDITION, SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE TABLE ON THIS SHEET, THESE INSPECTIONS SHALL BE PERFORMED BY A CURRENTLY WABO CERTIFIED INSPECTOR UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION. THEN IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE REPORTED TO THE DESIGN PROFESSIONAL AND TO THE BUILDING OFFICIAL.

THE SPECIAL INSPECTOR SHALL SUBMIT A SEALED FINAL REPORT BY A RESISTER PROFESSIONAL ENGINEER STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.

MISCELLANEOUS

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF RECESSES, DUCT OPENINGS, PIPING, CONDUITS, EQUIPMENT LOCATION AND ANCHORAGES, ETC., NOT SHOWN.

SUBMIT ALL REQUIRED SHOP DRAWINGS AND RECEIVE THEIR SATISFACTORY REVIEW FROM THE OWNER'S REPRESENTATIVE, PRIOR TO FABRICATION.

COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWINGS AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE PRIOR TO STARTING WORK AND NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES.

REFER TO SPECIFICATIONS FOR INFORMATION NOT CONTAINED IN THESE GENERAL NOTES.

CONCRETE

ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE FOR DETAILS REINFORCED CONCRETE STRUCTURES ACI 315, LATEST EDITION.

CONCRETE CONSTRUCTION SHALL CONFORM TO ACE 318 BUILDING CODE, LATEST EDITION.

DESIGN STRENGTH
CAST-IN-PLACE CONCRETE, UNLESS OTHERWISE NOTED:
f'c = 4000psi AT 28 DAYS
REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60. LAP SPLICES SHALL BE PER TABLE SHOWN ON THIS SHEET.

CONCRETE COVER
CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, BUT NOT LESS THAN ONE BAR DIAMETER:

FOOTINGS AND MATS FORMED AGAINST SOIL . . . . . 3"
CONCRETE IN CONTACT WITH SOIL, WEATHER OR WATER . . . . . 2"
CONCRETE NOT EXPOSED TO SOIL, WEATHER OR WATER. . . . . 1-1/2"
BEAMS AND COLUMNS (TO STIRRUPS) . . . . . 1-1/2"
SLAB ON GRADE
UNDER 6" THICK . . . . . AT SLAB CENTER
6" AND OVER . . . . . AS SHOWN

ANCHOR BOLTS

ANCHOR BOLTS FOR BUILDING STRUCTURE SHALL CONFORM TO ASTM A307 HOT DIPPED GALVANIZED. SET ALL BOLTS BY TEMPLATE.

DRILLED-IN EXPANSION BOLTS

SHALL BE STAINLESS STEEL "KWIK BOLTS" BY HILTI CORP., OR APPROVED EQUAL. ICBO CERTIFICATION AND SPECIAL INSPECTION IS REQUIRED. MINIMUM SPACING SHALL BE 12 BOLT DIAMETERS AND MINIMUM EDGE DISTANCE 6 BOLT DIAMETERS UNLESS NOTED OTHERWISE.

BOLT DIAMETER (IN.)	1/2	5/8	3/4	7/8	1
MIN. EMBEDMENT IN STRUCTURAL CONCRETE (IN.)	4	4	5	6	7

ADHESIVE / EPOXY ANCHORING SYSTEM

ANCHORS SHALL BE STAINLESS STEEL RODS COMPLYING TO AISI 304. REBAR SHALL CONFORM TO NOTES ABOVE.

REINFORCING BARS AND RODS ANCHORED INTO EXISTING CONCRETE SHALL BE IN DRILLED HOLE WITH THREADED, CODE APPROVED, ADHESIVE ANCHORING MATERIALS. ICC-ES REPORTS ARE REQUIRED FOR USE IN CRACKED CONCRETE FOR WIND OR SEISMIC LOADING.

MINIMUM EMBEDMENT IN STRUCTURAL CONCRETE SHALL BE 8 ROD DIAMETERS.

MINIMUM EDGE DISTANCE 6 ROD DIAMETERS.

STEEL

MATERIAL:
SHAPES AND PLATES SHALL CONFORM TO . . . . . ASTM A992 (A572/50)
TUBES (HSS) SHALL CONFORM TO . . . . . ASTM A500, GRADE B OR C
PIPES SHALL CONFORM TO . . . . . ASTM A53, GRADE B
BOLTS SHALL CONFORM TO . . . . . ASTM A307
STRUCTURAL BOLTS SHALL CONFORM TO . . . . . ASTM A325

A325 BOLTS SHALL BE BEARING TYPE N UNLESS NOTED. THGHTENING SHALL BE BY TURN-OF-THE NUT METHOD.

MACHINE BOLTS SHALL BE ASTM A307 AND SHALL BE PROVIDED WITH LOCK NUT WASHERS UNDER NUTS OR SELF LOCKING NUTS.

WELDING:
ALL WELDING SHALL CONFORM TO AWS D1.1 WELDING CODE. MINIMUM SIZE WELDS 3/16" CONTINUOUS FILLET.

ALL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE.

STRUCTURAL ABBREVIATIONS

@	AT	GA	GAUGE
AB	ANCHOR BOLT	GLB	GLUE LAMINATED BEAM
AFF	ABOVE FINISHED FLOOR	GWB	GYPSUM WALL BOARD
CDF	CONTROLLED DENSITY FILL	MAX	MAXIMUM
		MB	MACHINE BOLT
CLR	CLEAR	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MO	MASONRY OPENING
CONC	CONCRETE	OC	ON CENTER
CONT	CONTINUOUS	PL	PLATE
CSBC	CRUSHED SURFACING BASE COURSE	PT	PRESSURE TREATED
Ø	DIAMETER	PWD	PLYWOOD
d	PENNY WT (NAIL)	RO	ROUGH OPENING
DS	DOWNSPOUT	SST	STAINLESS STEEL
EA	EACH	T&B	TOP & BOTTOM
EF	EACH FACE	TJI	TRUSS JOIST I BEAM OR EQUIVALENT
EW	EACH WAY	TOC	TOP OF CONCRETE
FDN	FOUNDATION	TOW	TOP OF WALL
F/G	FIBERGLASS	TYP	TYPICAL
FS	FAR SIDE	U/S	UNDERSIDE
		WS	WATERSTOP

ROLLED STEEL SHAPES

C	CHANNEL
HP	H PILE SHAPE
HSS	HOLLOW STRUCTURAL SHAPE
L	ANGLE
M	MISCELLANEOUS SHAPE
MC	MISCELLANEOUS COLUMN
P_L	PLATE
S	S SHAPE
SCH	PIPE SCHEDULE
ST, WT	TEES CUT FROM S OR W SHAPES
W	WIDE FLANGE
Z	ZEE SECTION

LAP SPLICE TABLE

BAR SIZE	CONCRETE f 'c = 4,000 OR 5,000 psi	MASONRY f 'm = 1,500 psi
#3	19"	13"
#4	25"	22"
#5	31"	35"
#6	37"	54"
#7	48"	63"
#8	55"	72"
#9	62"	NA
#10	69"	NA

MINIMUM LAP SPLICES UNLESS OTHERWISE DETAILED ON DRAWINGS

SPECIAL INSPECTION SCHEDULE

ITEM	CI	PI	REMARKS/REFERENCES
GENERAL:			
PREFABRICATED ITEMS		X	
SITE PREPARATION, FILL PLACEMENT, SOIL COMPACTION	X		BY GEOTECHNICAL ENGINEER OR AN APPROVED TESTING AGENCY
CONCRETE:			IBC TABLE 1705.3, ACI 318-2015
REINFORCING MATERIALS & PLACEMENT		X	ASTM AS NOTED, ACI 318 CHAPTER 20.25 & 26.6
WELDING - REINFORCING		X	AWS D1.4
ANCHOR RODS, EMBEDDED BOLTS & INSERTS	X		PRIOR TO AND DURING CONCRETE PLACEMENT
POST-INSTALLED ANCHORS			ACI 318 26.7
ADHESIVE ANCHORS	X		ACI 318 17.8.2.4
MECHANICAL ANCHORS		X	ACI 318 17.8.2
USE OF REQUIRED MIX DESIGN		X	ACI 318 26.4
CONCRETE SLUMP, AIR CONTENT, TEMPERATURE & TEST SPECIMENS	X		WHILE MAKING SPECIMENS FOR STRENGTH TESTS, ACI 318 5.6
CONCRETE PLACEMENT	X		ACI 318 5.9, 5.10
CONCRETE CURING		X	ACI 318 5.11, 5.13
STEEL:			
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:			
A. IDENTIFICATION TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		NA	SECTION A3.4; AISC LRFD, SECTION A3.3
2. INSPECTION OF HIGH-STRENGTH BOLTING:			
A. BEARING-TYPE CONNECTIONS		NA	AISC LRFD SECTION M2.5
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:			
A. IDENTIFICATION MARKERS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		NA	ASTM A 6 OR ASTM A 568
4. INSPECTION OF WELDING:			
A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS		X	AWS D1.1
B. SINGLE-PASS FILLET WELDS < 5/16"		X	AWS D1.1
5. INSPECTION OF STEEL FRAME JOINTS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.		NA	
CAST-IN-PLACE DEEP FOUNDATIONS:			IBC TABLE 1705.8
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X		
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES	X		
3. FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	IN ACCORDANCE WITH IBC TABLE 1705.3		

INSPECTION SCHEDULE NOTES

1. ITEMS MARKED WITH AN "X" REQUIRE INSPECTION BY A SPECIAL INSPECTOR APPROVED BY THE BUILDING OFFICIAL.
2. ITEMS MARKED "NA" ARE NOT APPLICABLE TO THIS PROJECT.
3. CI = CONTINUOUS INSPECTION DURING PROGRESS OF WORK BY SPECIAL INSPECTOR.
4. PI = PERIODIC INSPECTION BY SPECIAL INSPECTOR AS REQUIRED TO CONFIRM CONFORMANCE OF WORK.
5. TESTING AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER, BUILDING OFFICIAL AND CONTRACTOR.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED J.W. LINKE
DRAWN D. PETERSON
CHECKED S. WAGNER
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS37390007P2-S2
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

JACOB WATSON LINKE, STATE OF WASHINGTON, 56738, REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

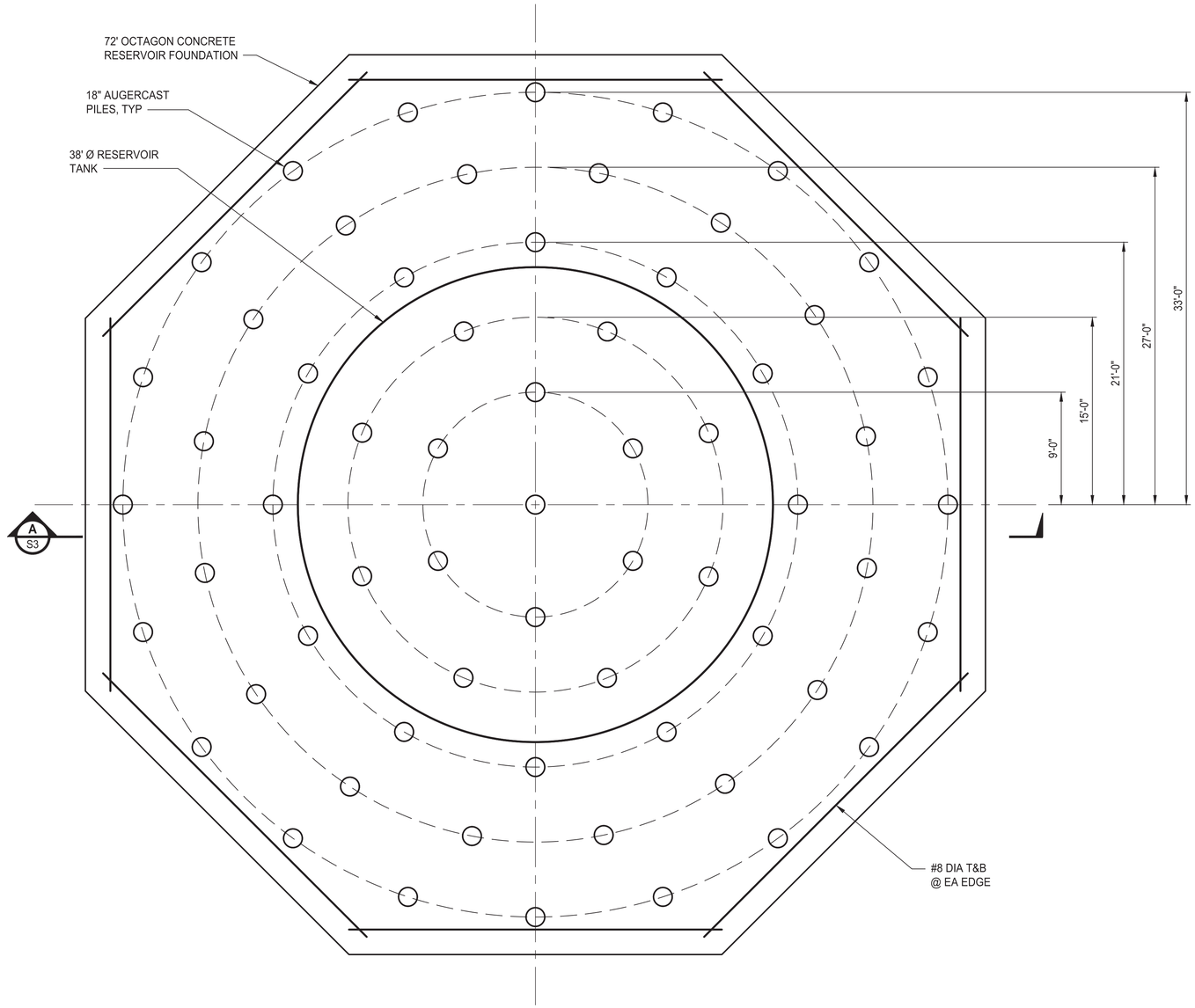
STRUCTURAL LEGEND AND ABBREVIATIONS

DRAWING NO.
X OF 91
S1

LAYOUT: S1 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDwg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:05:13 AM

NOTES

1. CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION.



RESERVOIR FOUNDATION
PLAN
3/16"=1'-0"

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED J.W. LINKE
DRAWN D. PETERSON
CHECKED S. WAGNER
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-S2
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

RESERVOIR PLAN AND SECTION

DRAWING NO.
X OF 91
S2

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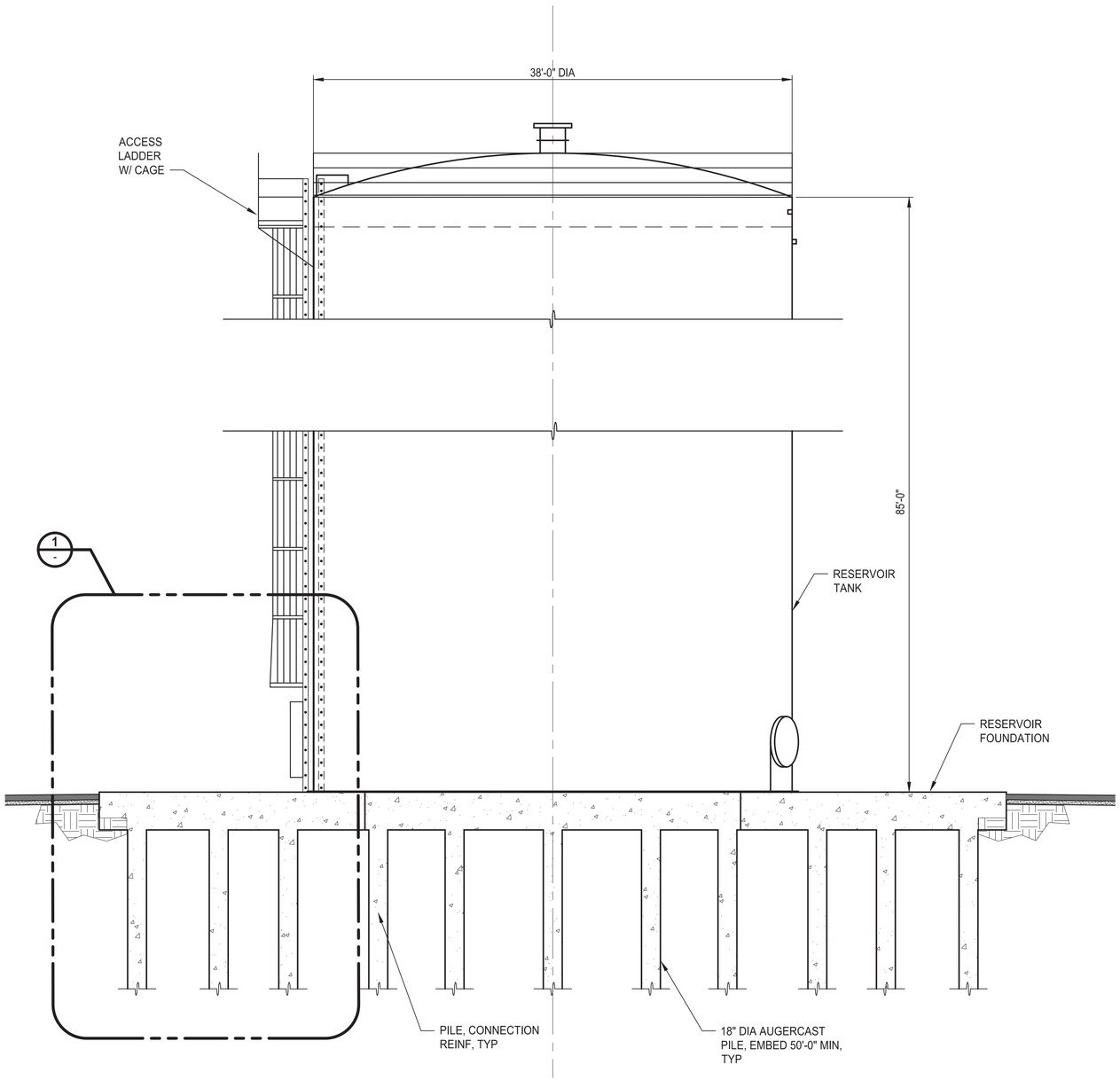
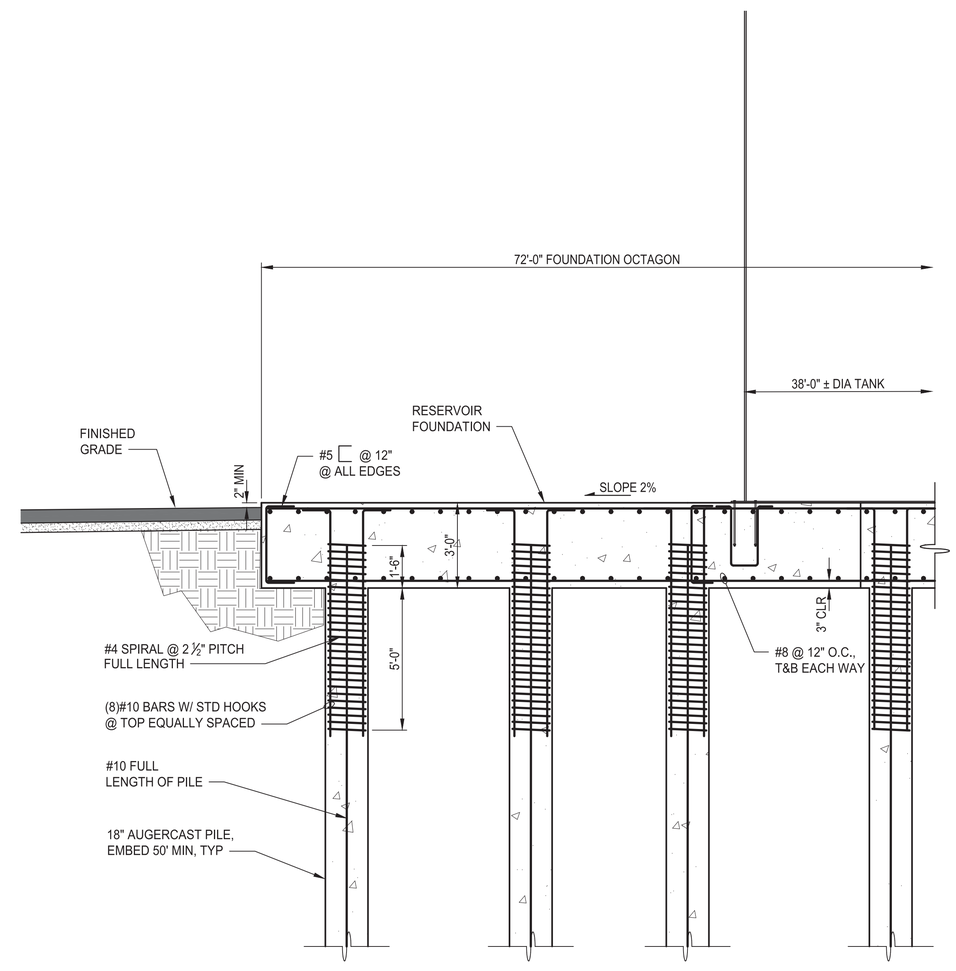
LAYOUT: S2

NOTES

1. CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO CONSTRUCTION.



SECTION A
3/16" = 1'-0" S2



DETAIL 1
3/8" = 1'-0" –

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

▷	REVISIONS	DATE	BY

DESIGNED J.W. LINKE
DRAWN D. PETERSON
CHECKED S. WAGNER
APPROVED #####

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JACOB WATSON LINKE
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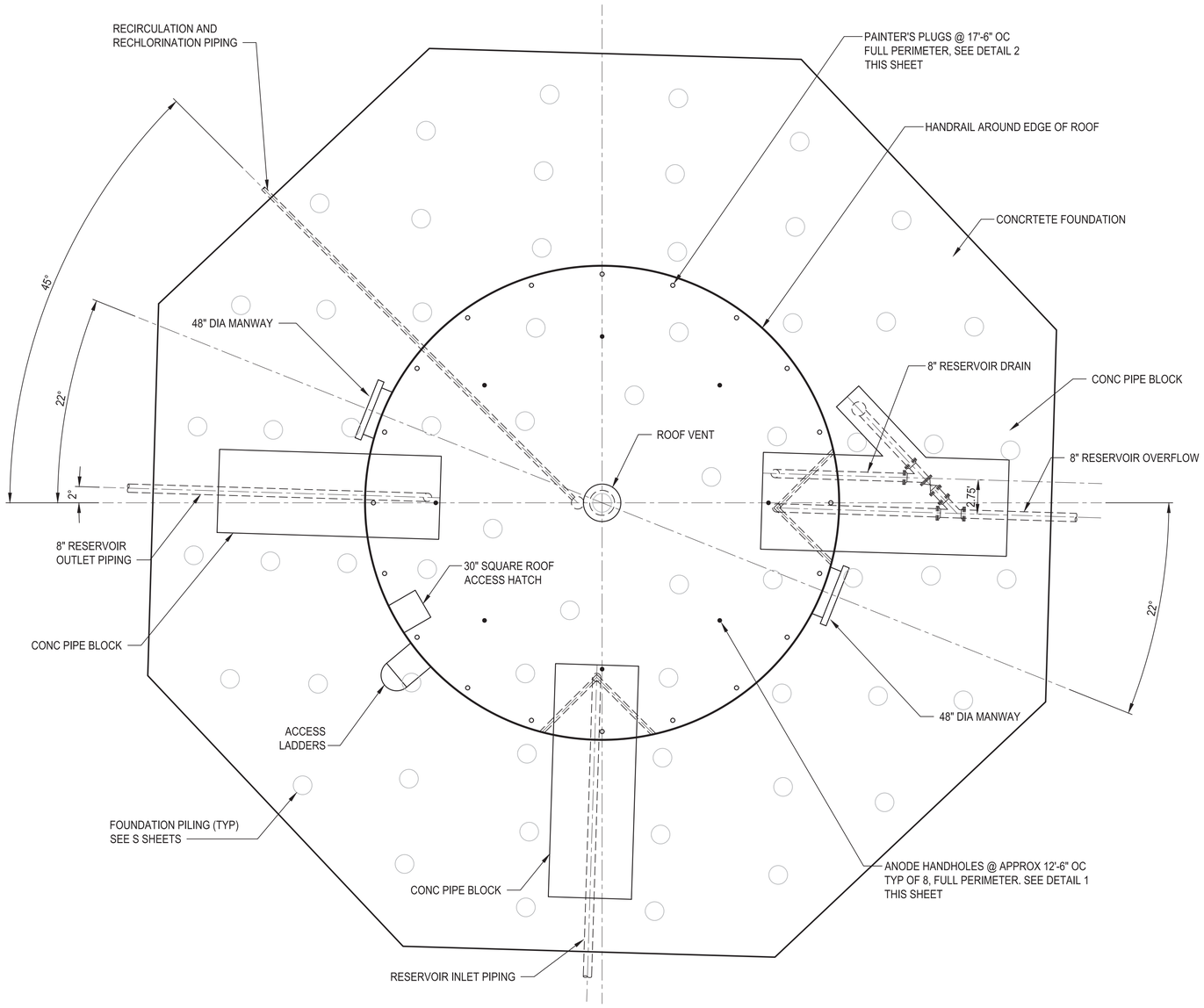
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

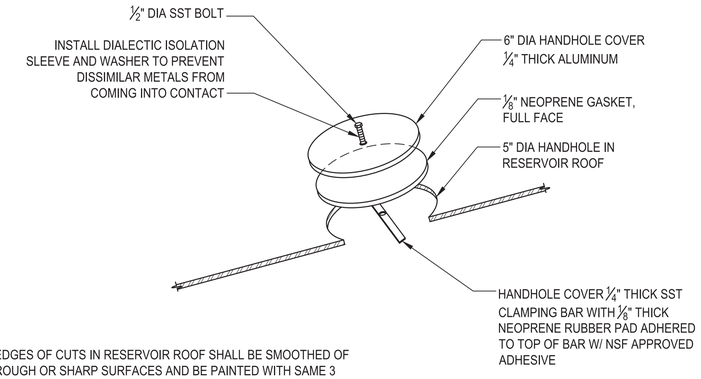
RESERVOIR SECTIONS AND DETAILS

DRAWING NO.
X OF 91
S3

LAYOUT: S3 PATH: U:\PSO\Projects\Clients\3739–City of Centralia\216–3739–007 Semhill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:05:34 AM



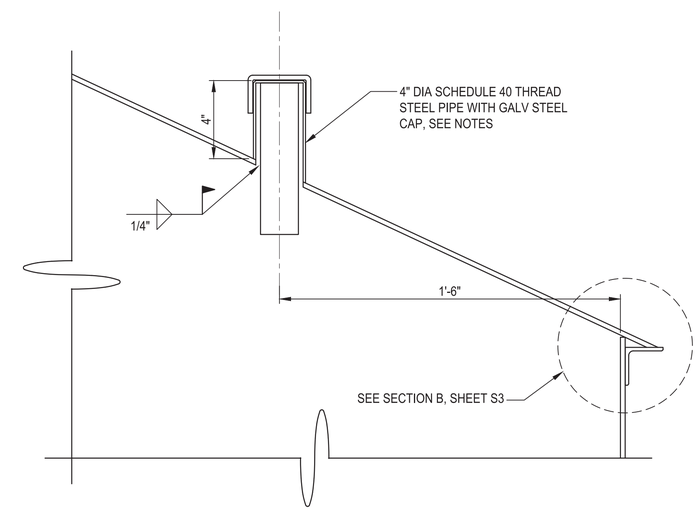
RESERVOIR
PLAN
3/16"=1'-0"



NOTES

1. ALL EDGES OF CUTS IN RESERVOIR ROOF SHALL BE SMOOTHED OF ALL ROUGH OR SHARP SURFACES AND BE PAINTED WITH SAME 3 COAT EPOXY SPECIFIED FOR THE INTERIOR COATING.
2. DRILL ⅛" DIAMETER HOLE IN ½" DIAMETER STAINLESS STEEL BOLT AT BOTTOM END AND INSTALL A COTTER PIN TO PREVENT CLAMPING BAR FROM DISCONNECTING FROM THE BOLT.

CATHODIC PROTECTION
AND ANODE HANDHOLE
DETAIL 1
3"=1'-0" -



NOTES

1. PAINTER'S PLUGS SHOWN SHALL BE SPACED APPROXIMATELY 9' ON CENTER.
2. THREADS ON PAINTER'S PLUG SHALL BE COMPLETELY COVERED BY CAP. NO EXPOSED THREADS ARE ALLOWED.
3. PROVIDE NSF-61 APPROVED GREASE ON THREADS.

PAINTER'S PLUG
DETAIL 2
3"=1'-0" -

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. ORAMA
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-M1
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — MARCUS REVOTE ELENOR — STATE OF WASHINGTON — 48367 — REGISTERED PROFESSIONAL ENGINEER

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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

RESERVOIR ROOF AND FLOOR PLAN

DRAWING NO. ##### OF 91
M1

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: toylokat DATE: Thursday, September 4, 2025 9:10:41 AM
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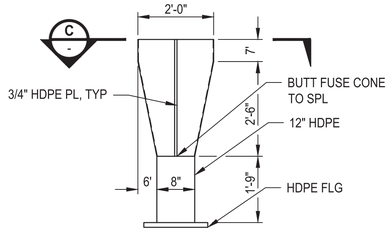
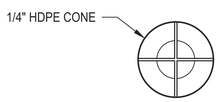


ELEVATION VIEW

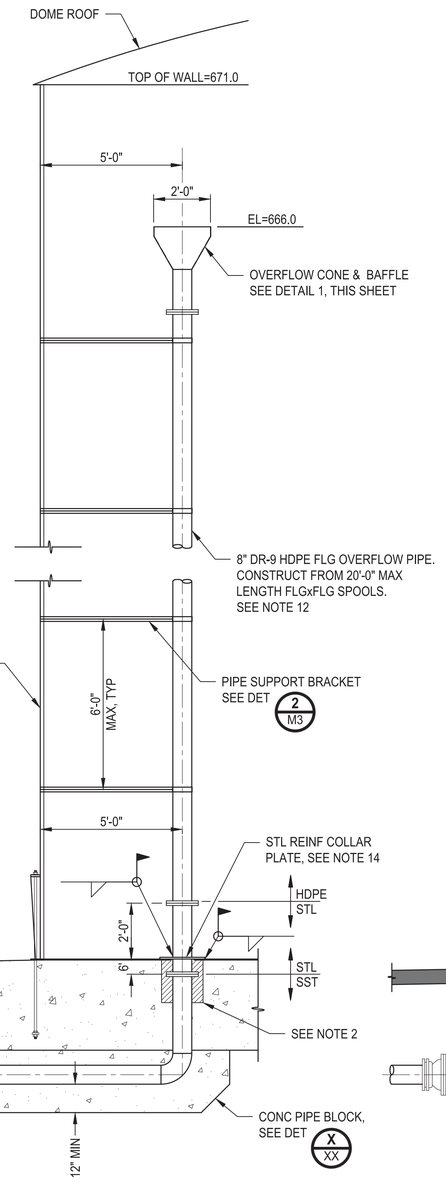


SECTION C

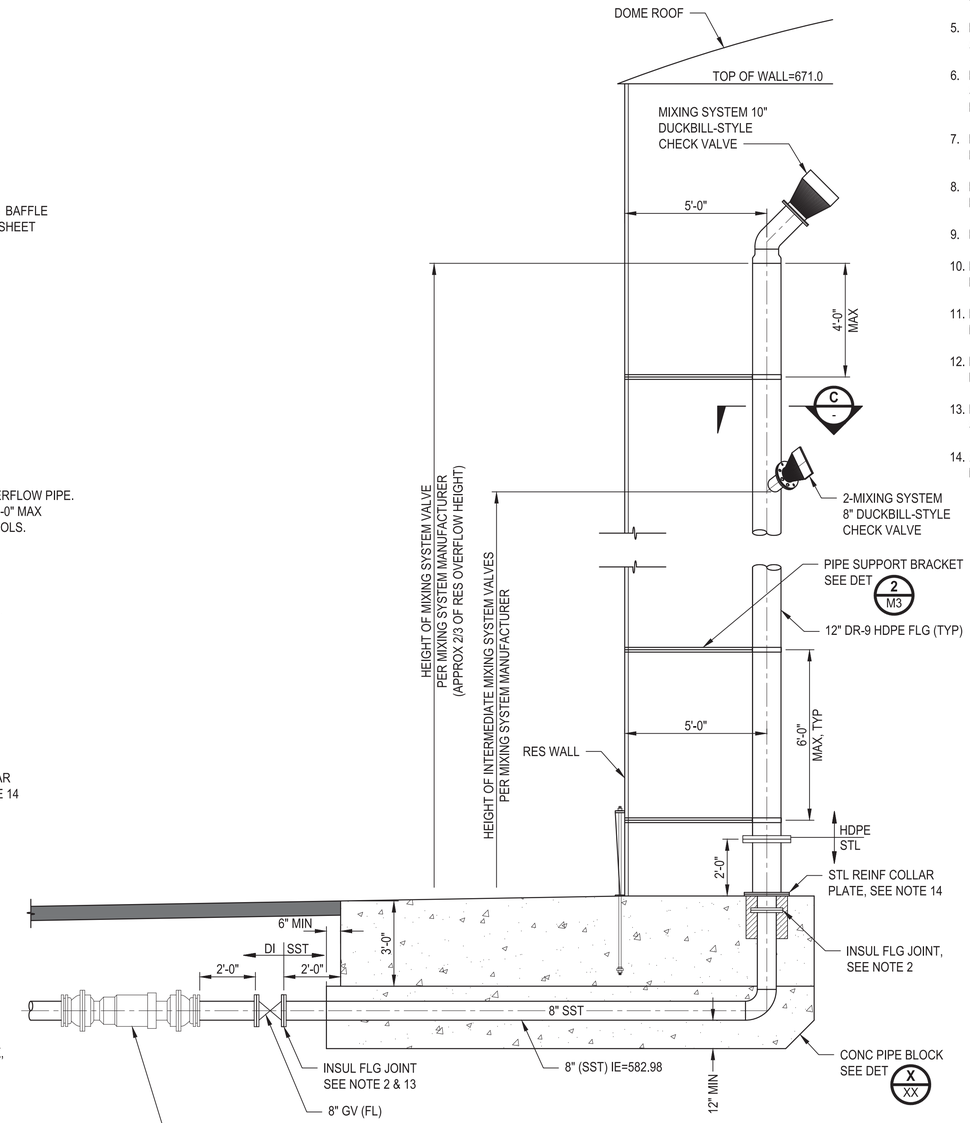
NOTES

1. BAFFLES AND BRACKETS TO BE DR 17 HDPE.
2. SEAL WELD ALL WELD CONNECTIONS.

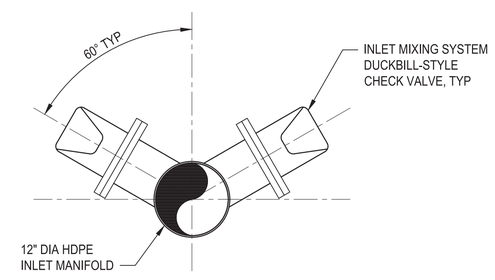
OVERFLOW CONE & BAFFLE
DETAIL 1
1/2"=1'-0"



8" OVERFLOW PIPE
SECTION A
3/8"=1'-0"



INLET
SECTION B
3/8"=1'-0"



TANK FILLING ASSEMBLY
SECTION C
1"=1'-0"

SHEET NOTES

1. DO NOT DRILL INTO RESERVOIR.
2. ALL STEEL JOINTS SHALL BE SEAL WELDED.
3. ALL STRUCTURAL STEEL FOR SUPPORTS SHALL BE ASTM A36. PROVIDE DIELECTRIC ISOLATION BETWEEN CARBON STEEL SUPPORTS AND STAINLESS STEEL HARDWARE.
4. ALL BOLTS, NUTS, AND FASTENERS SHALL BE 316 STAINLESS STEEL. LENGTH OF BOLTS AS REQUIRED TO DEVELOP FULL GRIP. PROVIDE WASHERS ON BOLTS TO PROTECT COATINGS ON SUPPORTS AND PIPING. PROVIDE DIELECTRIC ISOLATION (FLANGE ISOLATION KITS) BETWEEN CARBON STEEL SADDLES AND STAINLESS STEEL HARDWARE.
5. PIPE SUPPORT ASSEMBLIES SHALL BE FABRICATED UNLESS OTHERWISE INDICATED. ALL HOLES SHALL BE DRILLED IN SHOP, NOT CUT OR FABRICATED IN FIELD.
6. PIPE SUPPORTS SHALL BE PAINTED AND SHALL BE SEAL WELDED TO WALL. LINE SADDLE WITH NSF APPROVED GASKET MATERIAL PAD ALL THE WAY AROUND THE PIPE. ADHERE PAD TO SADDLE WITH SIKAFLEX 1A OR APPROVED EQUAL.
7. PAINT SIMILAR TO PIPE. NOT CUTTING OR DRILLING OF STEEL PERMITTED FOLLOWING PAINTING.
8. PROVIDE NSF APPROVED DIELECTRIC WASHERS BETWEEN STEEL WASHERS AND PAINTED STEEL.
9. BRACKETS TO BE PAINTED STEEL.
10. FINAL DESIGN OF MIXING SYSTEM TO BE SUBMITTED BY CONTRACTOR TO ENGINEER FOR REVIEW AND APPROVAL.
11. PRESSURE TEST BURIED INLET PIPE PRIOR TO CONNECTING MIXING SYSTEM MANIFOLD TO INLET PIPE.
12. PROVIDE STAINLESS STEEL HARDWARE AND BACKING RINGS AT ALL HDPE FLANGE LOCATIONS.
13. PROVIDE INSULATED FLANGE JOINT BETWEEN DISSIMILAR MATERIALS. SEE SPECIFICATIONS AND DETAIL 1, SHT M3.
14. ALL MISCELLANEOUS STEEL APPURTENANCES TO BE A36 STEEL UNLESS OTHERWISE NOTED.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. ORAMA
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-M2
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
MARCUS REVOTE ELENOR
STATE OF WASHINGTON
48367
REGISTERED PROFESSIONAL ENGINEER

Parametrix
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Ph: 253.604.6600

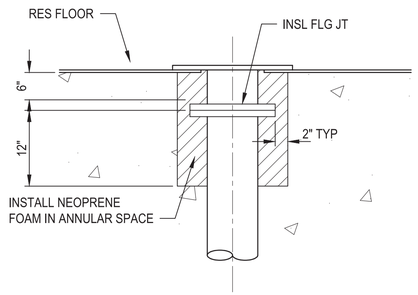
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

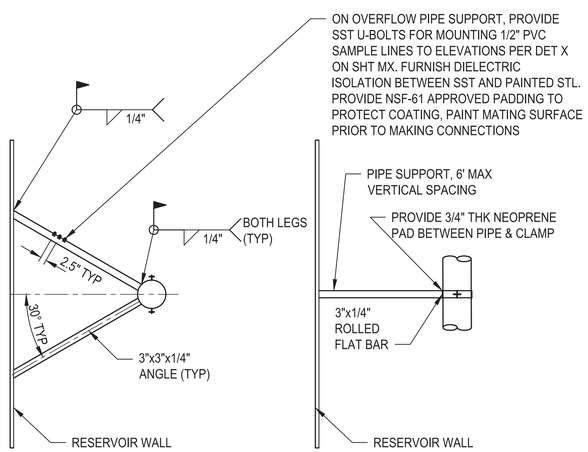
INLET AND OVERFLOW PIPING SECTIONS

DRAWING NO.
OF 91
M2

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 Semhill PrelimDsg\995vcs\CADD\DWG\PH 2 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:11:40 AM
LAYOUT: M2

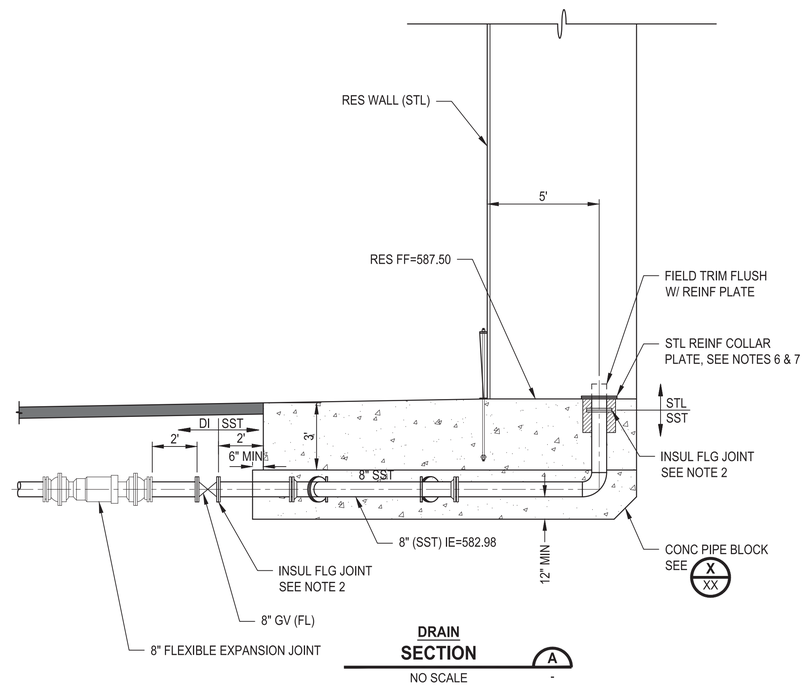


INSULATED JOINT
DETAIL 1
1"=1'-0" M2, M3



PLAN **SIDE ELEVATION**

PIPE SUPPORT
DETAIL 2
3/8"=1'-0" M2



DRAIN
SECTION A
NO SCALE

SHEET NOTES:

1. ALL RESERVOIR PIPING SHALL BE PAINT-LINED UNLESS OTHERWISE NOTED, SEE SPECIFICATIONS.
2. PROVIDE INSULATED FLANGE JOINT BETWEEN DISSIMILAR METAL PIPE MATERIALS, SEE SPECIFICATIONS AND DET 1 -
3. ALL CARBON STEEL PIPING SHALL BE PRIMED AND PAINTED. WELDING, DRILLING, CUTTING OF PIPE SECTIONS OR WELDING OF APPURTENANCES TO PIPE, WILL NOT BE ALLOWED FOLLOWING PAINTING UNLESS OTHERWISE NOTED.
4. PIPE SUPPORT SHALL BE PAINTED PER INTERIOR COATING SPECIFICATIONS.
5. BURIED STEEL TO RECEIVE SPECIAL COATING, SEE SPECIFICATIONS.
6. ALL MISCELLANEOUS STEEL APPURTENANCES TO BE A36 STEEL UNLESS OTHERWISE NOTED.
7. SEAL WELD ALL WELD CONNECTIONS.
8. CONCRETE PIPE BLOCKS TO PROVIDE MINIMUM 12" COVER OVER PIPING.
9. INSTALL REBAR IN ALL PIPE BLOCKS. REBAR TO BE #5 AT 12" ON CENTER, EACH WAY, WITH 3" MINIMUM CLEARANCE FROM EDGE AND PIPING. SEE DET X XX
10. WRAP BURIED SST PIPE AND FLEXIBLE EXPANSION JOINTS IN 6 MIL THICK POLYETHYLENE WRAP.

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REVISIONS	DATE	BY

DESIGNED M. ORAMA
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-M3
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
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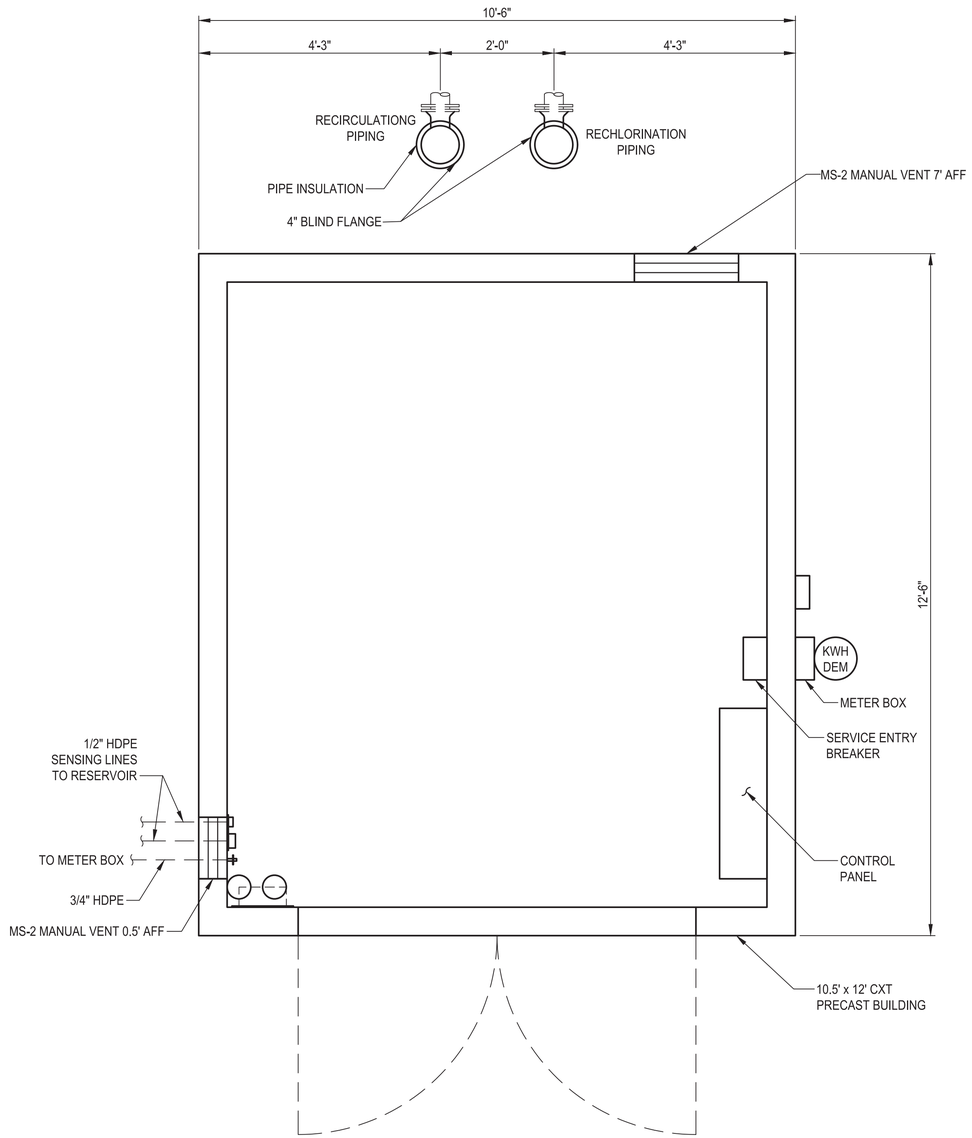
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

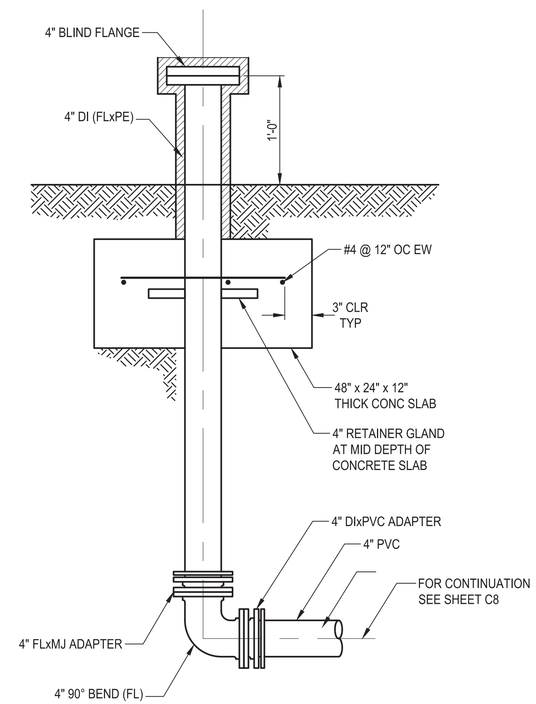
PIPING ENTRANCE-EXIT PLAN AND DETAILS

DRAWING NO. ##### OF 91
M3

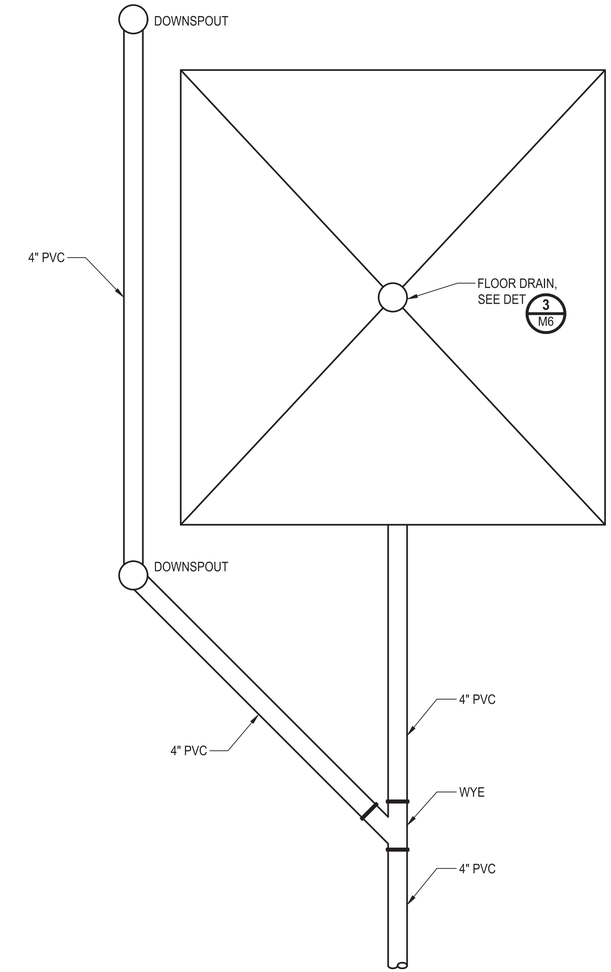
LAYOUT: M3 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:12:27 AM



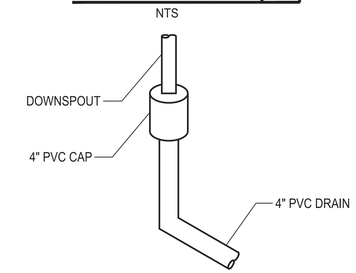
RECHLORINATION BUILDING
PLAN
NTS



RECHLORINATION BUILDING PIPING
DETAIL 1
NTS -



BUILDING PLUMBING CONNECTIONS
DETAIL 2
NTS



DOWNSPOUT CONNECTIONS
DETAIL 3
NTS

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

▷	REVISIONS	DATE	BY

DESIGNED M. ORAMA
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-M5
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — MARCIRIS REVOTE ELENCHUS — STATE OF WASHINGTON — 48367 — REGISTERED PROFESSIONAL ENGINEER

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

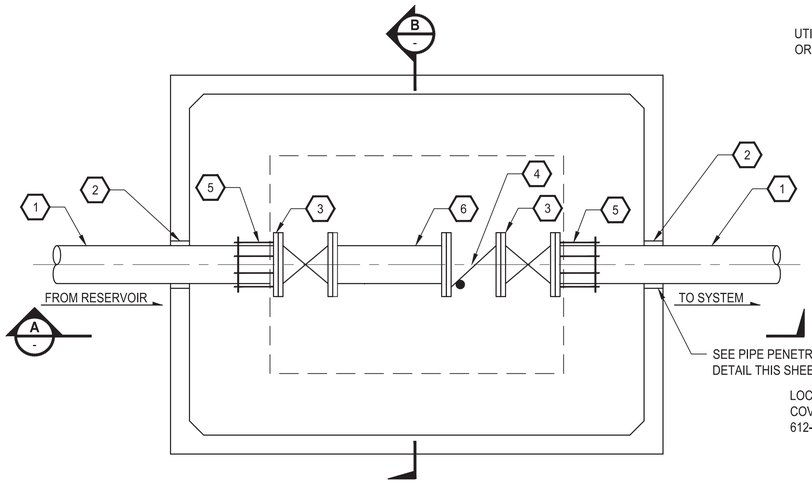
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

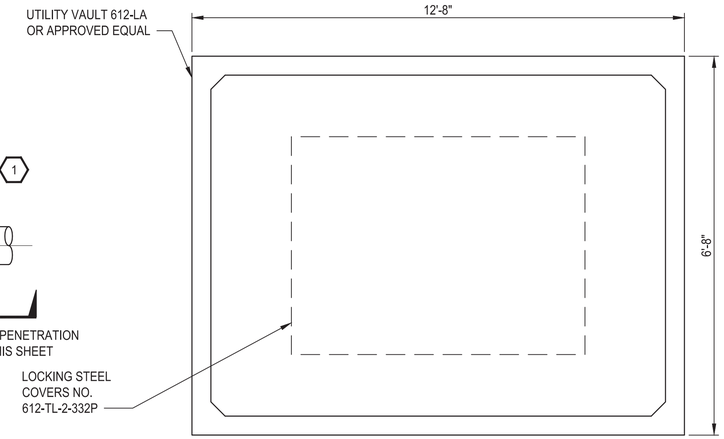
CONTROLS BUILDING AND DETAILS

DRAWING NO.
OF 91
M5

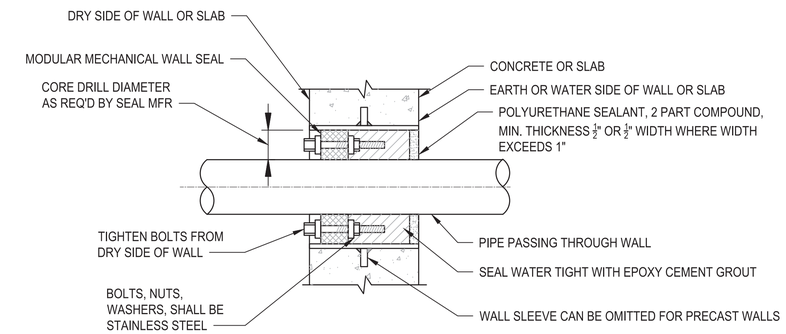
PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:13:19 AM
LAYOUT: M5



CHECK VALVE VAULT DETAIL (1)
NO SCALE



TOP VIEW
NO SCALE



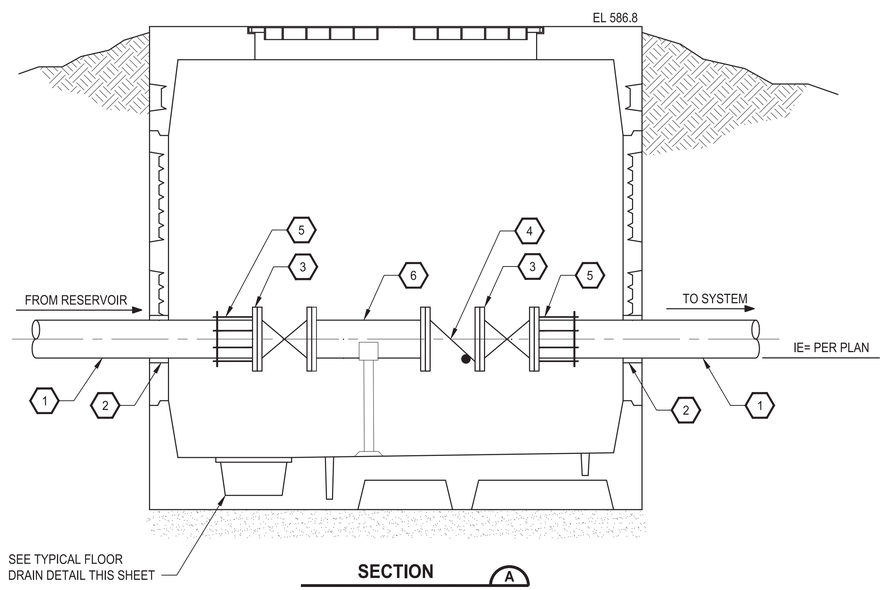
PIPE PENETRATION DETAIL (2)
NO SCALE

CHECK VALVE VAULT PIPING LEGEND

1	8" DI PIPE
2	8" LINK SEAL
3	8" GATE VALVE (FL)
4	8" CHECK VALVE (FL), SEE SPECIFICATIONS
5	8" RFCA
6	8" DI SPOOL (FL)

NOTES

1. ALL MECHANICAL JOINTS AND COUPLINGS SHALL BE PROVIDED WITH APPROVED WEDGE ACTION THRUST RESTRAINT



SECTION (A)
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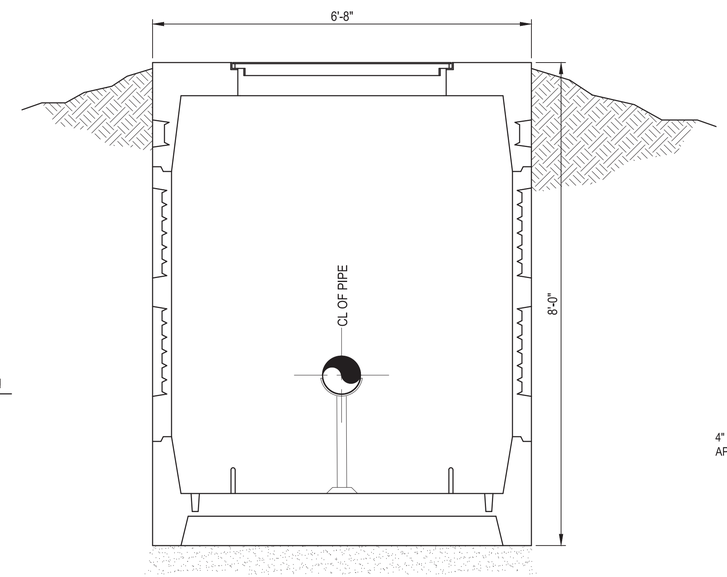
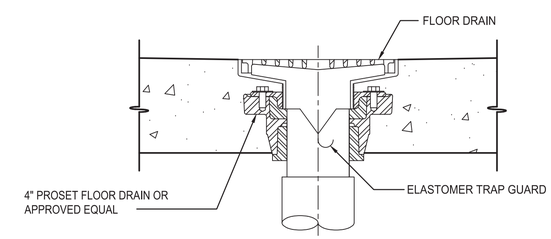


SECTION (B)
NO SCALE



TYPICAL FLOOR DRAIN DETAIL (3)
NO SCALE

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. ORAMA
DRAWN R. COOPER
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-M6
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — MARCUS REVOTE ELIENGARTNER — STATE OF WASHINGTON — 48367 — REGISTERED PROFESSIONAL ENGINEER

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
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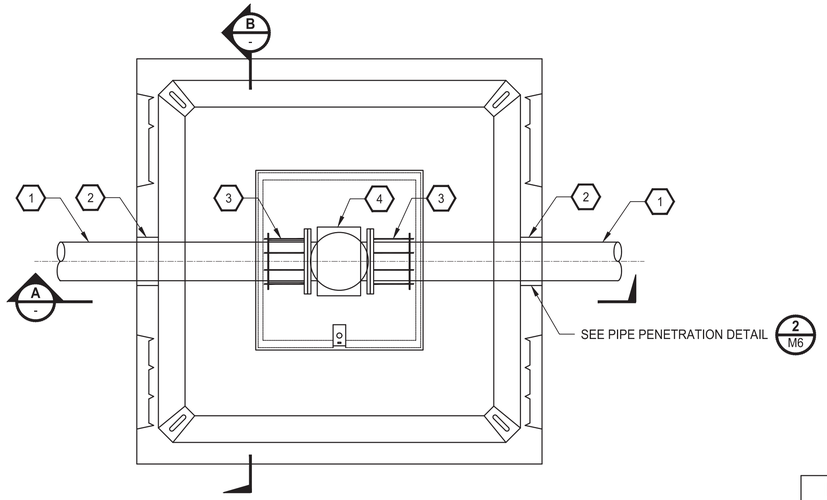
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

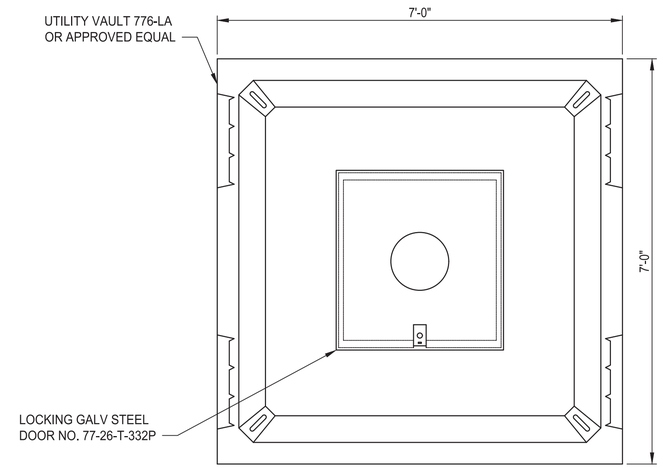
CHECK VALVE VAULT PLAN AND SECTIONS

DRAWING NO. ##### OF 91
M6

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:14:09 AM
LAYOUT: M6



FLOW METER VAULT
DETAIL 1 -
NO SCALE

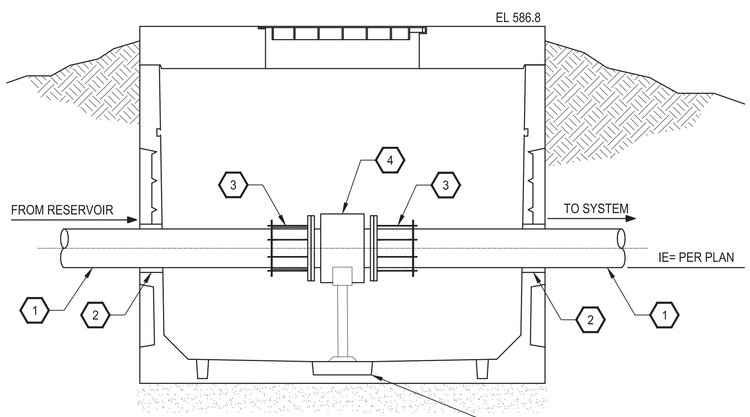


TOP VIEW
NO SCALE

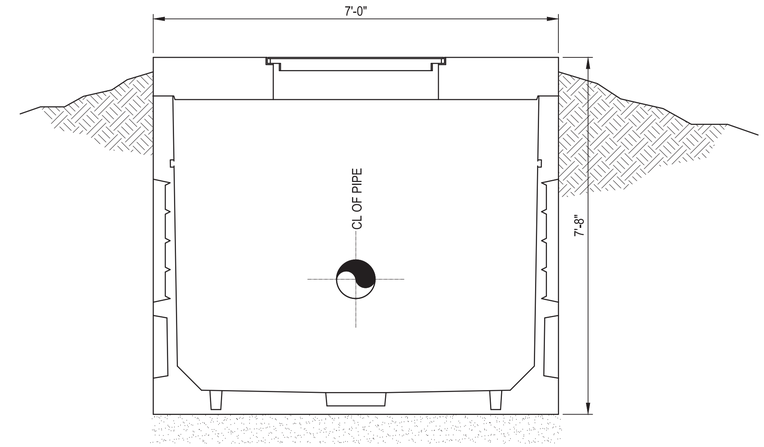
FLOW METER VAULT PIPING LEGEND	
1	8" DI PIPE
2	8" LINK SEAL
3	8" RFCA
4	8" FLOW METER, SEE SPECIFICATIONS

NOTES

1. ALL MECHANICAL JOINTS AND COUPLINGS SHALL BE PROVIDED WITH APPROVED WEDGE ACTION THRUST RESTRAINT



SECTION A -
NO SCALE



SECTION B -
NTS

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. ORAMA
DRAWN R. COOPER
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-M7
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

FLOW METER VAULT PLAN AND SECTIONS

DRAWING NO.
OF 91
M7

LAYOUT: M7 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 Semihill PrelimDwg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:14:47 AM

PLAN SYMBOLS

CONDUIT SYMBOLS

X-### — CONDUIT NUMBER
P = POWER C = CONTROL
J = SIGNAL X = SPARE

3/4"C-(3)#12 — CALLOUT INDICATING CONDUIT SIZE, NUMBER OF WIRES AND WIRE SIZE.

X-### — CALLOUT INDICATING CONDUIT NUMBER AND WIRE PER SCHEDULE.

EXPOSED CONDUIT

CONCEALED CONDUIT

FLEXIBLE CONDUIT

CAP ON CONDUIT STUB

CONDUIT TURNING UP

CONDUIT TURNING DOWN

CONDUIT WITH SEAL FITTING

UNDERGROUND DIRECT BURIAL CONDUITS

INDICATES REMOVAL

GROUND CONDUCTOR

CONDUIT RUN, BROKEN AND CONTINUED SAME SHEET OR AS NOTED

HOME RUN TO PANELBOARD OR AS INDICATED

CABLE TRAY

UNDERGROUND DUCT LINE (CONCRETE ENCASEMENT)

J — JUNCTION BOXES, FLOOR, WALL AND CEILING

HEAT TRACE

EQUIPMENT AND INSTRUMENT SYMBOLS

XXX-### — EQUIPMENT ID #

G xxKW — GENERATOR
xxKW = SIZE

xx — MOTOR
xx = HORSEPOWER

EQUIPMENT CONNECTION

INSTRUMENT LOCATION

T — THERMOSTAT

xxA — DISCONNECT SWITCH, UNFUSED
xxA = AMPERAGE

xxAF/xxAT F — DISCONNECT SWITCH, FUSED
xxAF = FRAME SIZE
xxAT = TRIP SIZE

xxAF/xxAT CB — ENCLOSED CIRCUIT BREAKER
xxAF = FRAME SIZE
xxAT = TRIP SIZE

MH — MANHOLE

HH — HANDHOLE

GROUND ROD

GROUND ROD AND BOX

PNL-100 — WALL-MOUNTED CONTROL PANEL, PANELBOARD, OR TERMINAL CABINET. SHOWN WITH EQUIPMENT ID TAG.

MCC-100 — FLOOR-STANDING DISTRIBUTION ASSEMBLY, SUCH AS MCC, SWITCHBOARD, OR XFMR. SHOWN WITH EQUIPMENT ID TAG.

FIRE ALARM SYMBOLS

FACP — FIRE ALARM CONTROL PANEL

SH — COMBINATION SMOKE/HEAT DETECTOR

F — HORN AND STROBE

F — MANUAL PULL STATION

RECEPTACLE AND SWITCH SYMBOLS

CKT TYPE — DUPLEX WALL RECEPTACLE, 120V
CKT = CIRCUIT NUMBER
TYPE: WP = WEATHERPROOF
G = GROUNDED
IG = ISOLATED GROUND
GF = GROUND FAULT INTERRUPTER

DUPLEX RECEPTACLE, EMERGENCY/ STAND-BY

SINGLE RECEPTACLE, 120V

SINGLE RECEPTACLE, EMERGENCY/ STAND-BY

DOUBLE DUPLEX RECEPTACLE, 120V

DOUBLE DUPLEX RECEPTACLE, EMERGENCY/STAND-BY

DUPLEX FLOOR RECEPTACLE, 120V
TYPE: F = FLUSH
S = SURFACE

X IN. — MULTI-OUTLET ASSEMBLY WITH SINGLE RECEPTACLE, 120V SPACING (X IN.) AS NOTED. MOUNTING HEIGHT AS NOTED.

SPECIAL PURPOSE WALL RECEPTACLE, RATING AS NOTED.

$(a,b) * — SINGLE POLE SWITCH (SEE NOTE S1)
* = SINGLE POLE
2 = 2 POLE
3 = 3 WAY
4 = 4 WAY
M = HP RATED, LOCKABLE
OS = OCCUPANCY SENSOR
P = SWITCH WITH PILOT LIGHT
WP = WEATHERPROOF

NOTES:

S1 LOWER CASE LETTERS IN PARENTHESIS ADJACENT TO A SWITCH OR LIGHT FIXTURE INDICATE A SWITCHED CIRCUIT AND IDENTIFY THE FIXTURE/SWITCH COMBINATIONS. FOR FOUR LAMP FLUORESCENT FIXTURES WIRED IN PAIRS WITHIN EACH FIXTURE, THE "a" SWITCH CONTROLS THE OUTER LAMPS AND THE "b" SWITCH CONTROLS THE INNER LAMPS. WIRE 3 LAMP FIXTURES SIMILARLY.

S2 NUMBERS IN PARENTHESIS ADJACENT TO A LIGHT FIXTURE OR RECEPTACLE INDICATE THE LIGHTING PANEL BRANCH CIRCUIT FEEDING THE DEVICE.

LIGHTING SYMBOLS

ID NL (a) (LPXX/X) — LUMINAIRE WITH IDENTIFICATION TAG
ID = TYPE, PER LIGHTING SCHEDULE
NL = UNSWITCHED NIGHT LIGHT
a = SWITCH CONTROL
LPXX/X = POWER SOURCE PANEL AND CIRCUIT NUMBER

SURFACE MOUNTED FIXTURE

WALL MOUNTED FIXTURE

POLE MOUNTED FIXTURE

WALL/CEILING MOUNTED EXIT LIGHT - DIRECTIONAL ARROW WHERE INDICATED, SHADED AREA INDICATES ILLUMINATED FACE.

PE — PHOTO ELECTRIC CELL

EMERGENCY LIGHT WITH SELF-CONTAINED BATTERY

UTILITIES SYMBOLS

M — ELECTRICITY UTILITY METER AND SOCKET

PLYWOOD BACKBOARD

ONE-LINE SYMBOLS

XXX-### — EQUIPMENT ID #

X-### — CONDUIT NUMBER
P = POWER C = CONTROL
J = SIGNAL X = SPARE

G xxKW — GENERATOR
xxKW = SIZE

xx — MOTOR
xx = HORSEPOWER

xxAF/xxAT — POWER CIRCUIT BREAKER, DRAWOUT, 3 POLE, ABOVE 1500V.
xxAF = FRAME SIZE
xxAT = TRIP RATING

xxAF/xxAT — CIRCUIT BREAKER, DRAWOUT, 3-POLE UNLESS OTHERWISE NOTED.
xxAF = FRAME SIZE
xxAT = TRIP RATING

xxKVA xxV PRI yyV SEC — POWER OR DISTRIBUTION TRANSFORMER, 3 PHASE UNLESS OTHERWISE NOTED.
xxKVA = SIZE
xxV = PRIMARY VOLTAGE
yyV = SECONDARY VOLTAGE

ATS xxAF — TRANSFER SWITCH, ATS OR MTS AS INDICATED. 3 POLE UNLESS OTHERWISE NOTED.
xxAF = RATING

* — MOTOR STARTER WITH THERMAL OVERLOAD. 3 PHASE UNLESS OTHERWISE NOTED.
* = NEMA SIZE

VFD ### — VARIABLE FREQUENCY DRIVE. 3 PHASE UNLESS OTHERWISE NOTED.
= TAG ID NUMBER

SS ### — ELECTRONIC SOFT STARTER WITH BYPASS. 3 PHASE UNLESS OTHERWISE NOTED.
= TAG ID NUMBER

LINE OR LOAD REACTOR

K — INTERLOCK
K = KIRK KEY
S = SWITCH

ST — SHUNT TRIP

FUSE

CURRENT TRANSFORMER

VOLTAGE TRANSFORMER

SURGE ARRESTOR

X — SENSOR.
X INDICATES DEVICE TYPE:
A = AMMETER
AS = CURRENT SWITCH
V = VOLTMETER
VS = VOLT SWITCH
WH = WATTHOUR METER

POWER RECEPTACLE

CAPACITOR

VACUUM BREAK SWITCH

TERMINATOR / POTHEAD

X — ELEMENTARY DIAGRAM REFERENCE
X = DIAGRAM NUMBER

GROUND CONNECTION

SCHEMATIC SYMBOLS

TAG xxAF — DISCONNECT SWITCH, 3-POLE.
TAG = DEVICE TAG ID
xxAF = SWITCH RATING, IN AMPERES

TAG xxA — CIRCUIT BREAKER, 3-POLE.
TAG = DEVICE TAG ID
xxA = TRIP RATING, IN AMPERES

M OL — MOTOR STARTER WITH THERMAL OVERLOAD, 3-POLE.

M — MOTOR, 3-PHASE. VOLTAGE AND HORSEPOWER AS INDICATED.

M — MOTOR, SINGLE PHASE. VOLTAGE AND HORSEPOWER AS INDICATED.

BUS STAB ON MCC OR SWITCHGEAR OR MOTOR CORD AND PLUG CONNECTION

CPT xxV PRI yyV SEC — CONTROL POWER TRANSFORMER
xxV = PRIMARY VOLTAGE
yyV = SECONDARY VOLTAGE

TAG xxA — CIRCUIT BREAKER, SINGLE-POLE
TAG = DEVICE TAG ID
xxA = TRIP RATING, IN AMPERES

TAG xxA — FUSE
TAG = DEVICE TAG ID
xxA = FUSE RATING, IN AMPERES

PUMP 1, O, H, A, XOO, OXO, OOX — SELECTOR SWITCH ASSEMBLY, 3-POSITION
TYPICAL CONFIGURATIONS:
H O A = HAND/OFF/AUTO
L O R = LOCAL/OFF/REMOTE

START STOP — PUSHBUTTON, NORMALLY OPEN AND NORMALLY CLOSED

XXX ### — CONTROL DEVICE COIL
XXX INDICATES TYPE:
ALT = ALTERNATING RELAY
CR = CONTROL RELAY
LR = LATCHING RELAY
TR/TDR = TIMING RELAY/TIME DELAY RELAY
M = MOTOR STARTER CONTACTOR
= DEVICE ID NUMBER

X — INDICATING LIGHT
X INDICATES COLOR:
A = AMBER
B = BLUE
C = CLEAR
G = GREEN
R = RED
W = WHITE
Y = YELLOW

X — INDICATING LIGHT, PUSH-TO-TEST

STANDARD RELAY CONTACTS

— CONTACT, NORMALLY OPEN AND NORMALLY CLOSED.
= DEVICE ID NUMBER

TIME-DELAY RELAY CONTACTS

— NORMALLY OPEN, CLOSES AFTER TIME DELAY.
= DEVICE ID NUMBER

NORMALLY CLOSED, OPENS AFTER TIME DELAY.

NORMALLY OPEN, INSTANTANEOUS CLOSE, OPENS AFTER TIME DELAY.

NORMALLY CLOSED, INSTANTANEOUS OPEN, CLOSES AFTER TIME DELAY.

SENSING DEVICE CONTACTS

CLOSES RISING	CLOSES FALLING	DEVICE TYPE
		FLOW SWITCH
		LEVEL/FLOAT SWITCH
		PRESSURE SWITCH
		TEMPERATURE SWITCH

LIMIT SWITCH CONTACTS

NORMALLY OPEN, CLOSES ON REACHING LIMIT

NORMALLY CLOSED, OPENS ON REACHING LIMIT

WIRE AND CABLE SYMBOLS

WIRING INSIDE ENCLOSURE

FIELD WIRING

CONDUCTORS CONNECTED

CONDUCTORS NOT CONNECTED

SPLICE OR TERMINATION

TERMINAL SYMBOLS

MAIN CONTROL PANEL

LOCAL CONTROL PANEL

FIELD TERMINAL

FIELD PANEL

POWER JUNCTION BOX

VFD

MCC OR SWITCHGEAR

PLC I/O TERMINAL

CONTROL CABLE JUNCTION BOX

MOTOR LOAD CABLE JUNCTION BOX OR DISCONNECT

MISCELLANEOUS DEVICES

ETM — ELAPSED TIME METER / HOURMETER

SOLENOID

H — HORN

B — BELL

BUZZER

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
A/D	ANALOG TO DIGITAL
ADJ	ADJUSTABLE
AF	AMPERE FRAME
AFD	ADJUSTABLE FREQUENCY DRIVE
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AMP	AMPERES
ANN	ANNUNICATOR
AS	AMMETER SWITCH
AT	AMMETER TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BCG	BARE COPPER GROUND
C	CONDUIT
CAB	CABINET
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CC	CONTROL CABLE, CLOSING COIL, CLARIFIER CONSOLE
CHH	COMMUNICATION HANDHOLE
CKT	CIRCUIT
CMH	COMMUNICATION MANHOLE
CO	CONDUIT ONLY
COMM	COMMUNICATION
COND	CONDUCTOR
CPT	CONTROL POWER TRANSFORMER
CP	CONTROL PANEL
CR	CONTROL RELAY
CS	CONTROL STATION
CT	CURRENT TRANSFORMER
DB	DIRECT BURIAL
DC	DIRECT CURRENT
DIAG	DIAGRAM
DISC	DISCONNECT
DISTR	DISTRIBUTION
DIV	DIVISION
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
(E)	EXISTING
EE	ELECTRICAL ENCLOSURE
EHH	ELECTRICAL HANDHOLE
ELEM	ELEMENTARY
EMERG	EMERGENCY
ENCL	ENCLOSURE
EFFL	EFFLUENT
EGC	EQUIPMENT GROUND CONDUCTOR
EQPT	EQUIPMENT
ETM	ELAPSED TIME METER
FDR	FEEDER
FE	FLOW ELEMENT
FIT	FLOW INDICATION TRANSMITTER
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
F.O.	FIBER OPTIC
FREQ	FREQUENCY
FSH	FLOAT SWITCH HIGH
FSO	FLOAT SWITCH OVERFLOW
FU	FUSE
FUT,(F)	FUTURE
FVNR	FULL VOLTAGE, NON- REVERSING
FVR	FULL VOLTAGE, REVERSING
FWD	FORWARD
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
H	HYDROGEN PEROXIDE
HH	HANDHOLE
HOA	HAND-OFF- AUTOMATIC
HOR	HAND-OFF-REMOTE
HPS	HIGH PRESSURE SODIUM
HT	HEAT TAPE
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ (CYCLES PER SECOND)
IND LT	INDICATING LIGHT
INCAND	INCANDESCENT
INSTR	INSTRUMENT, INSTRUMENTATION
I/O	INPUT/OUTPUT
ISB	INTRINSICALLY SAFE BARRIER
ISR	INTRINSICALLY SAFE RELAY
JB	JUNCTION BOX
KA	KILOAMPERES
KCMIL	THOUSANDS OF CIRCULAR MILS
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES REACTIVE
KWH	KILOWATT HOURS
LCS	LOCAL CONTROL STATION
LTG	LIGHTING
LTS	LIGHTS
LP	LIGHTING PANEL
(M)	MODIFIED
mA	MILLIAMPERES
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION OR MAIN CONTROL PANEL
MCM	THOUSAND CIRCULAR MILS (KCMIL)
MON	MONITOR
MOV	MOTOR OPERATED VALVE
MS	MOTOR STARTER
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
(N)	NEW
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NEUT	NEUTRAL
NO	NORMALLY OPEN, NUMBER
OCP	OZONE CONTROL PANEL
OL	OVERLOAD
OT	OVER TEMPERATURE
OVLD	THERMAL OVERLOAD RELAY
OIT	OPERATOR INTERFACE TERMINAL
P	POLE, PUMP
PB	PULLBOX
PBSW	PUSHBUTTON SWITCH
PEC	PHOTOELECTRIC CELL
PF	POWER FACTOR
PGRS	PVC COATED GALVANIZED RIGID STEEL
pH	MEASURE OF ACIDITY OR ALKALINITY
PH	PHASE
PIOP	PLC I/O PANEL
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PNLBD	PANELBOARD
POSN	POSITION
POT	POTENTIOMETER
PPS	PACKAGED POWER SUPPLY
PRI	PRIMARY
PWR	POWER
(R)	RELOCATED
RCPT	RECEPTACLE
RCT	REPEAT CYCLE TIMER
RT	RESET TIMER
SCCR	SHORT CIRCUIT CURRENT RATING
SCHD80	SCHEDULE 80 PVC
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SIG	SIGNAL
SN	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SST	STAINLESS STEEL
SV	SOLENOID VALVE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYNC	SYNCHRONIZING
TB	TERMINAL BOX
TC	TELEPHONE CABINET
TEL	TELEPHONE
TERM	TERMINAL
TO	TIMED OPENING
TOA	TEST-OFF- AUTOMATIC
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
UGND	UNDERGROUND
VA	VOLT-AMPERES
VAR	VOLT AMPERES REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VH	VAR-HOUR
VS	VOLTMETER SWITCH
W	WIRE, WATTS
WH	WATTHOUR METER
WHDM	WATTHOUR DEMAND METER
WP	WEATHERPROOF
WR	WEATHER RESISTANT
WT	WATERTIGHT
WWR	WASHWATER RECOVERY
XFMR	TRANSFORMER

GENERAL NOTES

G1 THE INSTALLATION OF ALL EQUIPMENT SHOWN ON THESE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITIONS OF ALL APPLICABLE CODES AND UTILITY COMPANY STANDARDS. CONTACT THE UTILITY COMPANY REPRESENTATIVES AND VERIFY THEIR REQUIREMENTS.

G2 THIS IS A GENERALIZED LEGEND SHEET. THIS CONTRACT MAY NOT USE ALL INFORMATION SHOWN.

G3 NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS IN EQUIPMENT LOCATIONS ARE DISCOVERED OR IF PROBLEMS ARISE DUE TO FIELD CONDITIONS, LACK OF INFORMATION OR ANY OTHER REASON.

G4 INFORMATION SHOWN MAY NOT BE ALL INCLUSIVE. SEE ALSO ANSI C37.2, Y1.1, Y32.2, AND Y32.9.

G5 REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND FOR CERTAIN CONNECTIONS TO BE MADE TO ELECTRICAL CIRCUITS.

G6 EQUIPMENT SHOWN IN HALF TONE OR GREY TONE ARE EXISTING OR BY OTHERS.

G7 VERIFY ALL COLOR REQUIREMENTS BEFORE ORDERING MATERIALS.

G8 CONDUIT SIZE AND FILL SHALL BE AS INDICATED. WHERE NO SIZE IS SHOWN, THE CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE EDITION OF THE NATIONAL ELECTRIC CODE ADOPTED BY THE AUTHORITY HAVING CODE ENFORCEMENT JURISDICTION. WHERE NO FILL IS INDICATED, PROVIDE (3) #12 WIRES. PROVIDE 3/16 INCH NYLON PULL ROPE IN EACH EMPTY CONDUIT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	
			DESIGNED R. WELLS
			DRAWN D. PETERSON
			CHECKED D. SPENCER
			APPROVED XX

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-E1
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

CAMERON BUI CARLSON — STATE OF WASHINGTON — 21023636 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

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1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

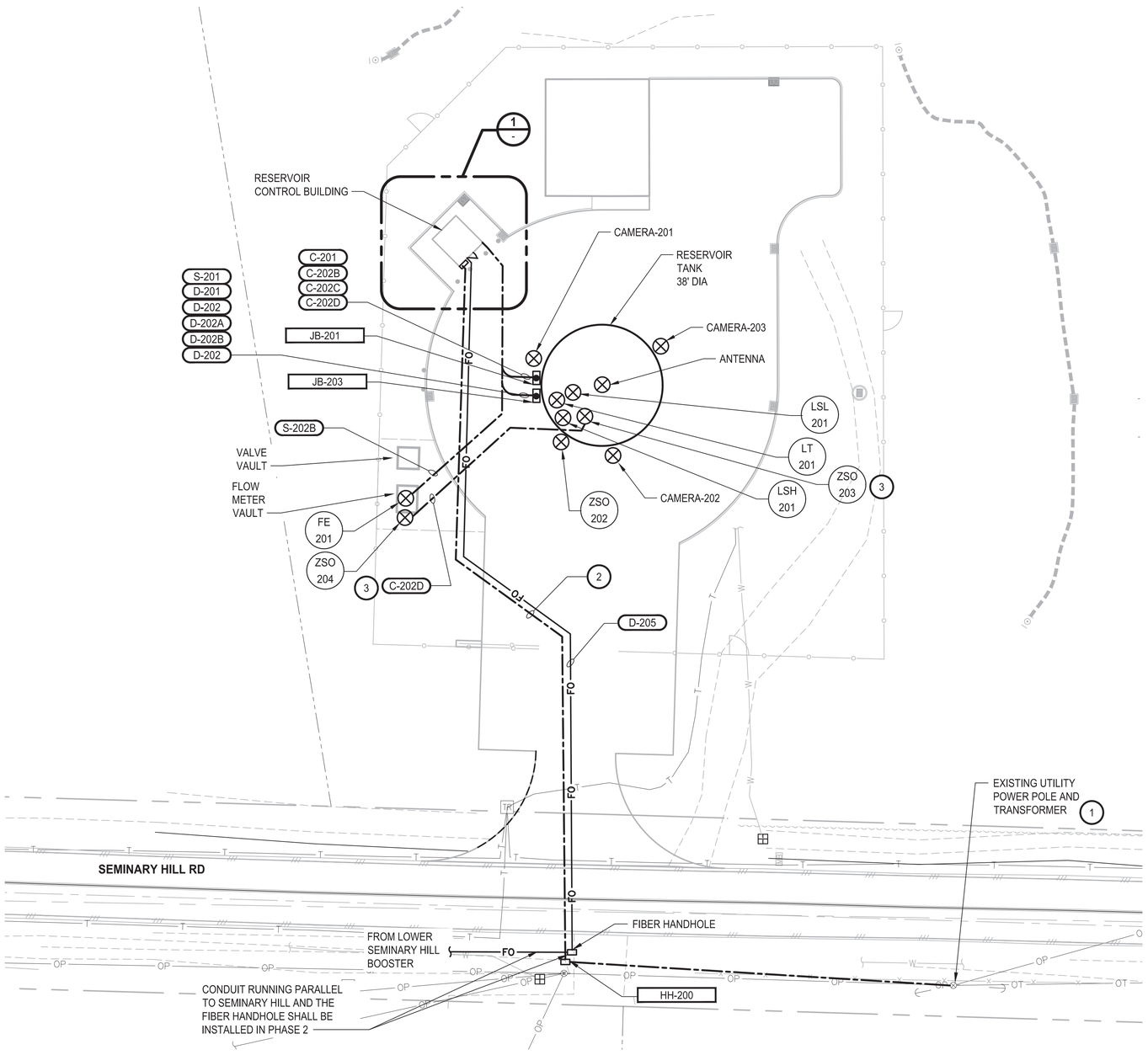
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

ELECTRICAL LEGEND AND ABBREVIATIONS

LAYOUT: E1 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:17:31 AM

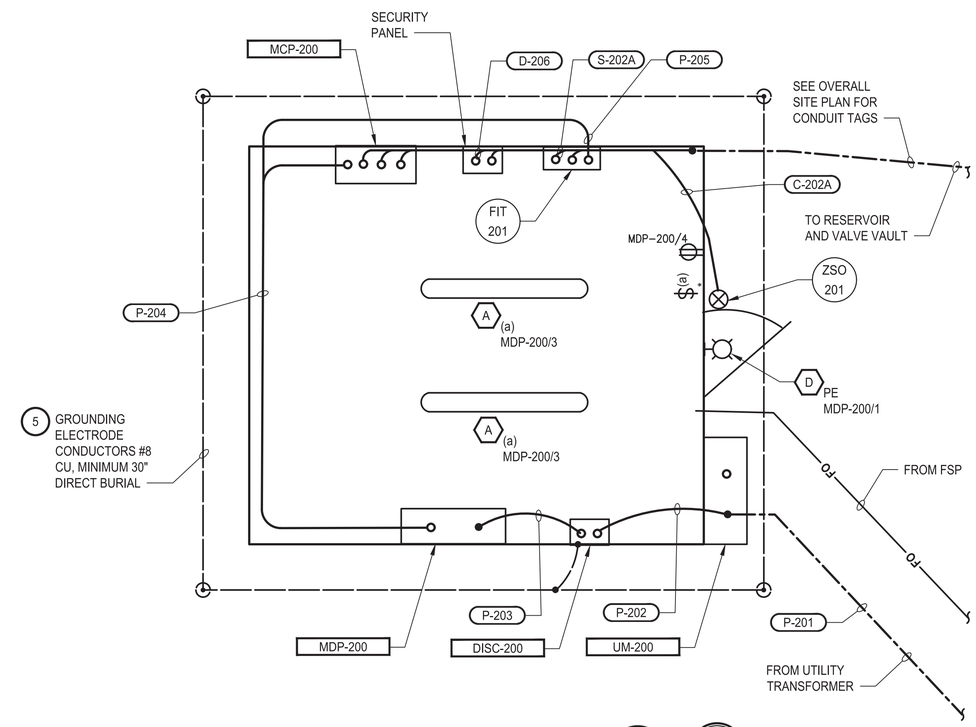
NOTES

1. CONTRACTOR SHALL COORDINATE WITH CENTRALIA CITY LIGHTS UTILITY COMPANY TO PROVIDE NEW 120-240V SERVICE.
2. CONTRACTOR SHALL RUN UTILITY CONDUIT UNDERGROUND TO UM-200 LOCATED AT THE RESERVOIR CONTROLS BUILDING.
3. C-202D ORIGINATES FROM THE TOP OF THE RESERVOIR AT ZSO-203. CONDUIT IS SHOWN IN BOTH TRENCHES TO INDICATE THIS.
4. CONDUIT ROUTING ON RESERVOIR NOT SHOWN TO MAINTAIN CLEANLINESS. SEE CONDUIT AND CABLE SCHEDULE FOR TERMINATIONS.
5. BOND GROUND RODS TO BUILDING FOUNDATION, UM-200, DISC-200, MDP-200, MCP-200, SECURITY PANEL, LEVEL TRANSMITTER VAULT, AND RESERVOIR FOUNDATION.
6. CONDUIT ROUTING IS DIAGRAMMATIC ONLY. CONTRACTOR TO FIELD VERIFY CONDUIT ROUTES.
7. SEE SCHEDULES ON SHEET E3.



PLAN

SCALE IN FEET 0 20 40



DETAILED PLAN 1 -

SCALE IN FEET 0 2' 4'

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED R. WELLS
DRAWN D. PETERSON
CHECKED D.SPENCER
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-E2
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
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PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

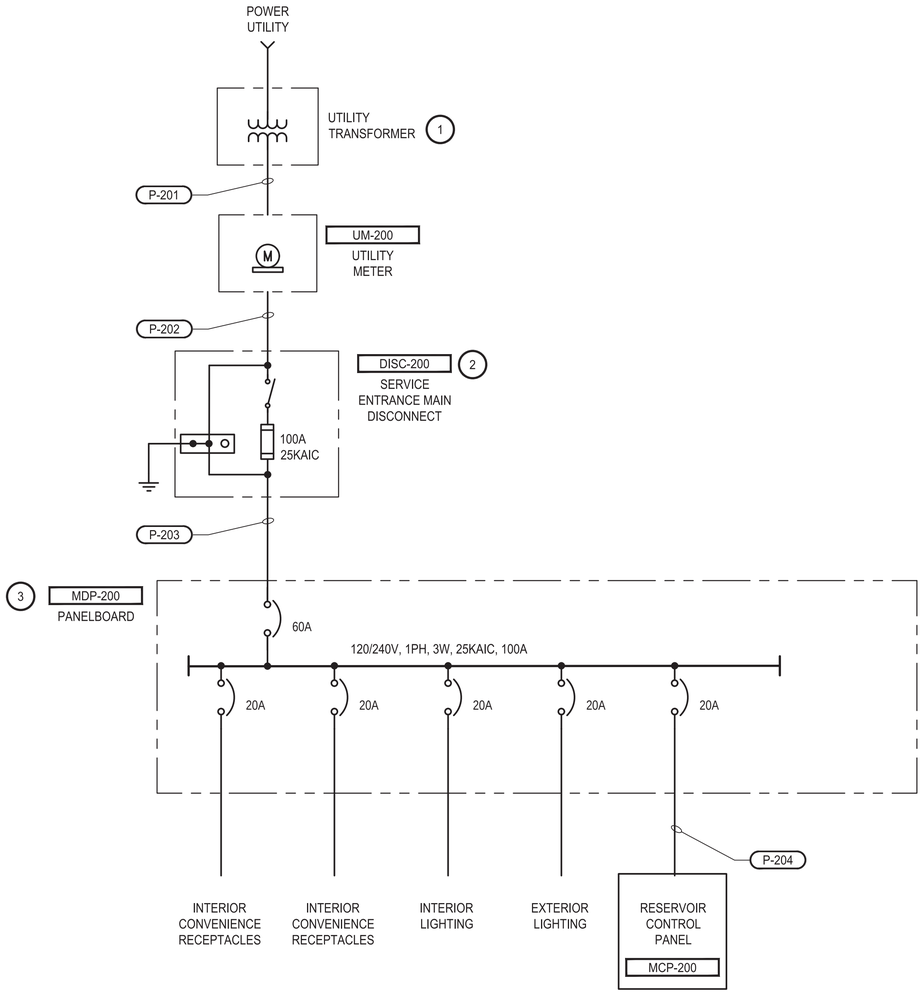
ELECTRICAL RESERVOIR SITE PLAN

DRAWING NO. X OF 91
E2

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\995vcs\CADD\DWG\PH 2 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:26:51 AM
LAYOUT: E2

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH CENTRALIA LIGHTS UTILITY FOR SERVICE TO THE RESERVOIR ELECTRICAL BUILDING. DETERMINE EXISTING TRANSFORMER RATINGS.
2. MAIN BONDING JUMPER SHALL BE LOCATED INSIDE THE MAIN DISCONNECT.
3. CONTRACTOR SHALL PROVIDE SPARES PER THE PANELBOARD SCHEDULE ON THIS SHEET.



ONE-LINE

N.T.S

PANELBOARD SCHEDULE

v 6.0

NAME: MDP-200

VOLTAGE RATING: **120/240 VOLTS, 1 PHASE, 3 WIRE**
BUS RATING: **60** AMPS
MAIN BREAKER: **60** AMPS
FEED: **BOTTOM**
MOUNTING: **SURFACE**
SPECIAL FEATURES: **25KAIC**

LOCATION: **UPPER SEMINARY HILL RESERVOIR**
FED FROM: **DISC-200**
NOTES: **NEMA 12 GASKETED**

LOAD TYPE	CIRCUIT DESCRIPTION	VA	CKT	BRKR	L1	L2	BRKR	CKT	VA	CIRCUIT DESCRIPTION	LOAD TYPE
L	EXTERIOR LIGHTING	105	1	20 / 1	-A-		20 / 1	2		SPARE	
L	INTERIOR LIGHTING	100	3	20 / 1		-B-	20 / 1	4	720	INTERIOR RECEPTACLES	R
X	MCP-200	500	5	20 / 1	-A-		20 / 1	6		SPARE	
	SPARE		7	20 / 1		-B-	20 / 1	8		SPARE	
	SPARE		9	20 / 1	-A-		20 / 1	10		SPARE	
	SPARE		11	20 / 1		-B-	20 / 1	12		SPARE	
LINE LOADS:		**605 VA(L1)**							**820 VA(L2)**		
TOTAL LOAD:		**1.43 KVA**				**5.9 AMPS**					

MDP-200 LOAD CALCULATION:

		CONNECTED VA	METHOD	NEC DEMAND	CALC. VA
TOTAL LIGHTING (L) LOAD:	L	205	ALL @	125%	256
TOTAL RECEPTACLE (R) LOAD:	R	720	FIRST 10KVA @	125%	900
			REMAINDER OVER 10KVA	50%	0
TOTAL MOTOR (M) LOAD.	M	0	ALL @	100%	0
	LM	0	125% OF LARGEST	125%	0
TOTAL HVAC (H) LOAD:	H	0	ALL @	125%	0
TOTAL MISCELLANEOUS (X) LOAD:	X	500	ALL @	125%	625
TOTAL VA:		1425 VA			1781 VA
AVERAGE AMPS @		6 AMPS			7 AMPS
VOLTAGE PHASE TO PHASE=	240				

CONDUIT AND CABLE SCHEDULE

v2.0

NUMBER	CONDUIT QUAN & SIZE	CONDUIT TYPE	WIRE FILL	WIRE TYPE	FROM	TO	VIA	REMARKS
P-201	(1)2"	PVC40	(3)#2	XHHW-2	UTILITY TRANSFORMER	UM-200	HH-200	UTIL TRANSFORMER TO UTILITY METER
P-202	(1)2"	PVC40	(3)#2, (1)#8G	XHHW-2	UM-200	DISC-200		UT METER TO SERVICE ENTRANCE DISC.
P-203	(1)1"	PVC40	(3)#4, (1)#8G	XHHW-2	DISC-200	MDP-200		MAIN DISC. TO MAIN DISTRB. PANEL
P-204	(1)1"	PVC40	(2)#12, (2)#12G	XHHW-2	MDP-200	MCP-200		DISTRB. PANEL TO CONTROL PANEL
P-205	(1)1"	GRS	(2)#12, (1)#12G	XHHW-2	MDP-200	FIT-201		
C-201	(1)1"	GRS	(4)#14, (1)#14G	THHN	MCP-200	RESERVOIR HATCH	JB-201	LSH-201 AND LSL-201. TRANSITION TO MFR CABLES IN JB-201.
C-202A	(1)1"	PVC/ GRS	(2)#14, (1)#14G	THHN	MCP-200	ZSO-201		
C-202B	(1)1"	GRS	(2)#14, (1)#14G	THHN	ZSO-201	ZSO-202		
C-202C	(1)1"	GRS	(2)#14, (1)#14G	THHN	ZSO-202	ZSO-203		
C-202D	(1)1"	PVC/ GRS	(2)#14, (1)#14G	THHN	ZSO-203	ZSO-204		
S-201	(1)1"	GRS	(1)#16	TSP	MCP-200	LT-201	JB-203	RESERVOIR LEVEL
S-202A	(1)1"	GRS	(1)#16	TSP	MCP-200	FIT-201		RESERVOIR DISTRIBUTION FLOW
S-202B	(1)1"	PVC/ GRS	MANUFACTURERS CABLE	MFR	FIT-201	FE-201		PROVIDE LENGTH AS REQUIRED FOR REMOTE MOUNT INDICATED. SPLICING SHALL NOT BE ACCEPTABLE.
D-201	(1)1"	PVC/ GRS	(1)COAX	-	MCP-200	RESERVOIR ANTENNA		TNC CONNECTORS
D-202	(1)1"	PVC/ GRS	(3)CAT6 ETHERNET	CAT6	SECURITY PANEL	JB-203		
D-202A	(1)1"	GRS	(1)CAT6 ETHERNET	CAT6	JB-203	CAMERA-201		
D-202B	(1)1"	GRS	(1)CAT6 ETHERNET	CAT6	JB-203	CAMERA-202		
D-202C	(1)1"	GRS	(1)CAT6 ETHERNET	CAT6	JB-203	CAMERA-203		
D-205	(1)1"	PVC	(2)FIBER	FIBER	FIBER HANDHOLE	MCP-200		
D-206	(1)1"	GRS	(1)FIBER	FIBER	MCP-200	SECURITY PANEL		

LIGHTING FIXTURE SCHEDULE

NO.	MANUF.	CATALOG NUMBER	VOLTS	INPUT WATTS	QTY	MOUNT	REMARKS
A	HOLOPHANE	EVT4 8000LM FST WD MVOLT GZ10 50K 90CRI	MVOLT	67	5	SURFACE MOUNT TO STRUCTURAL CEILING	4FT LINEAR LED LUMINAIRE WITH FROSTED POLYCARBONATE LENSE, WIDE DISTRIBUTION, 120-277V, 5000K COLOR TEMPERATURE, 90 COLOR RENDERING INDEX.
D	LITHONIA	WDGE2 LED P3 40K 80CRI T3M MVOLT SRM PE DBLXD	MVOLT	32	2	SURFACE MOUNT 12" ABOVE DOOR	LED WALL PACK LIGHTING, 3200 LUMENS, 4000K COLOR TEMPERATURE, 80 COLOR RENDERING INDEX, 120-277V, SURFACE MOUNT, PHTOTOCELL, BLACK IN COLOR.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED R. WELLS
DRAWN J. VONDERAHE
CHECKED D. SPENCER
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P2-E3
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY — CAMERON BUI CARLSON — STATE OF WASHINGTON — 21023636 — REGISTERED PROFESSIONAL ENGINEER

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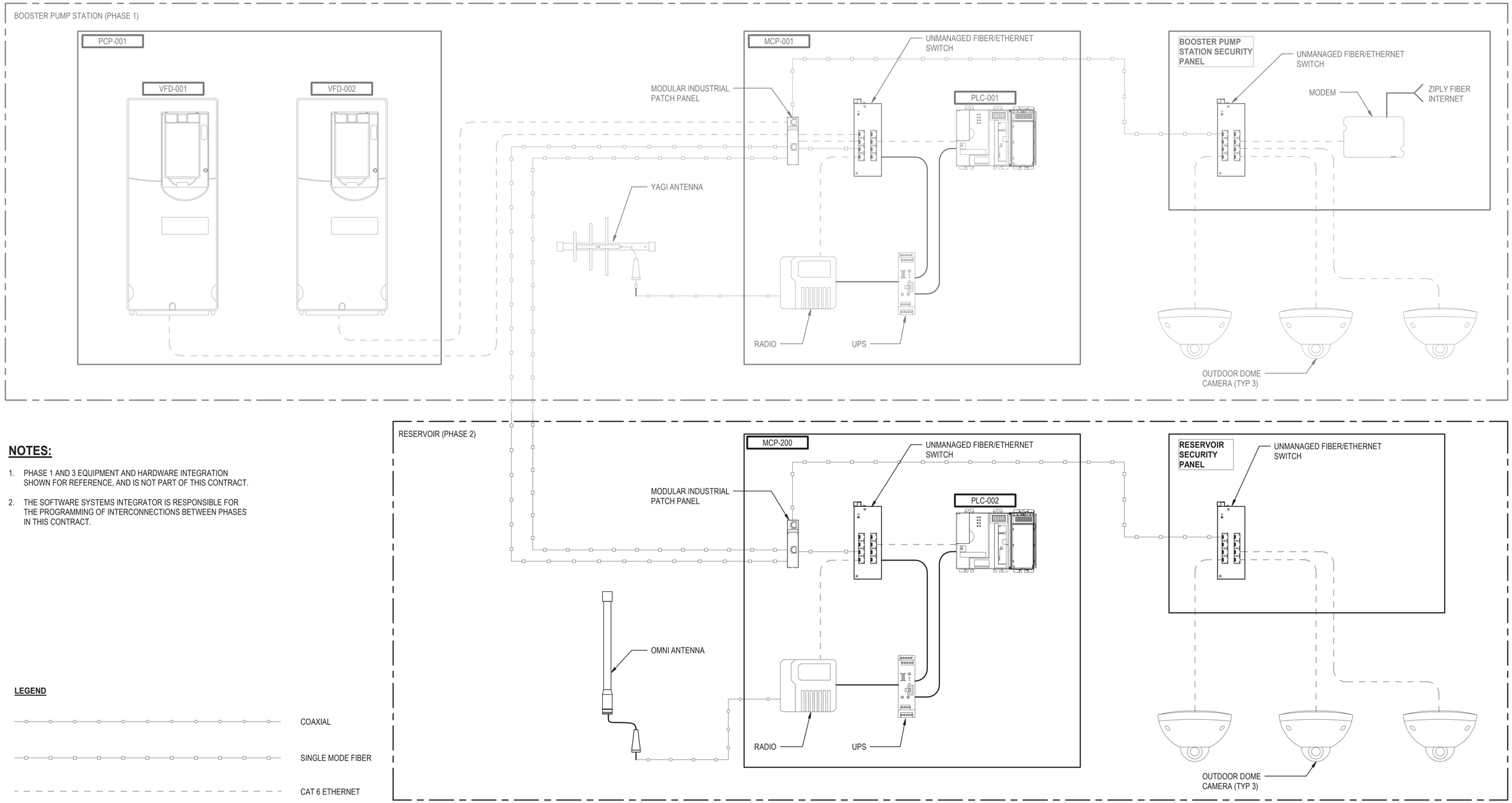
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES

DRAWING NO. ##### OF 91
E3

LAYOUT: E3 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDwg\99Svcs\CADD\DWG\PH 2 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:28:16 AM



NOTES:

1. PHASE 1 AND 3 EQUIPMENT AND HARDWARE INTEGRATION SHOWN FOR REFERENCE, AND IS NOT PART OF THIS CONTRACT.
2. THE SOFTWARE SYSTEMS INTEGRATOR IS RESPONSIBLE FOR THE PROGRAMMING OF INTERCONNECTIONS BETWEEN PHASES IN THIS CONTRACT.

LEGEND

- COAXIAL
- SINGLE MODE FIBER
- CAT 6 ETHERNET
- 12VDC OR 24VDC POWER

60% REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED C. CARLSON
DRAWN J. VONDERAHE
CHECKED D. SPENCER
APPROVED Approver

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME 3739-007 SEMHILL.rvt
JOB No. 216-3739-007 (PH2)
DATE SEPTEMBER 2025

PRELIMINARY
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CITY ENGINEER
DATE

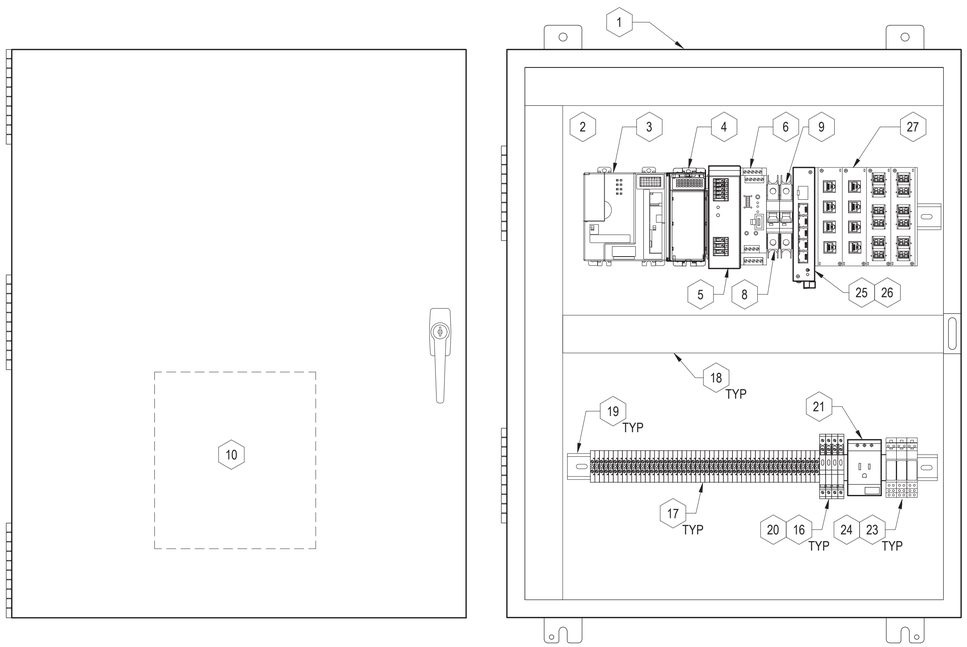
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
CENTRALIA, WASHINGTON

NETWORK BLOCK DIAGRAM

DRAWING NO. OF 0
I201

NOTES:

1. SOME ITEMS LISTED ON THE BILL OF MATERIALS SPREADSHEET ARE NOT SHOWN BECAUSE THEY ARE EXTERNAL TO THE PANEL COMPONENTS.



MCP-200

MAIN CONTROL PANEL LAYOUT

DETAIL

SCALE: 3" = 1'-0"

ITEM	DESCRIPTION	CATALOG/PART NUMBER	MANUFACTURER	QUANTITY
1	30"H x 24"W x 6"D ENCLOSURE	CHKO30246	HAMMOND	1
2	30"H x 24"W BACK PANEL	EP3024	HAMMOND	1
3	COMPACTLOGIX 5370 L2 PLC	1769-L24ER-QB1B	ALLEN-BRADLEY	1
4	1769 COMPACT I/O MODULE	1769-IF8	ALLEN-BRADLEY	1
5	24VDC POWER SUPPLY	2866763	PHOENIX CONTACT	1
6	24/12 VDC UPS	2320461	PHOENIX CONTACT	1
7	12 VOLT BATTERY	PS-12280	POWERSONIC	2
8	5 AMP CIRCUIT BREAKER	WMZS1C05	AUTOMATION DIRECT	1
9	2 AMP CIRCUIT BREAKER	WMZS1C02	AUTOMATION DIRECT	1
10	450 MHz RADIO ETHERNET	210C	ESTEEM/CED	1
11	ANTENNA POLYPHASOR	AA161	ESTEEM/CED	1
12	YAGI ANTENNA	AA202C.1	ESTEEM/CED	1
13	OMNI ANTENNA	FC4507	ESTEEM/CED	1
14	25LF LMR 400 CABLE	AA237	ESTEEM/CED	1
15	ANTENNA CABLE PIGTAIL	AA234	ESTEEM/CED	1
16	TERMINAL BLOCK, FUSED	PANEL FABRICATOR CHOICE		4
17	TERMINAL BLOCK, FEED THRU	PANEL FABRICATOR CHOICE		50
18	PANDUIT	PANEL FABRICATOR CHOICE	PANDUIT	A/R
19	DIN RAIL	PANEL FABRICATOR CHOICE		A/R
20	FUSES (FUSE SIZE ACCORDING TO DRAWINGS)	PANEL FABRICATOR CHOICE		A/R
21	DIN RAIL MOUNTED OUTLET 120V GFCI	PANEL FABRICATOR CHOICE		1
22	ETHERNET CABLE	PANEL FABRICATOR CHOICE		A/R
23	SPDT 10A 24V RELAY	700 HK6A24	ALLEN-BRADLEY	3
24	RELAY HOLDER	700 HN121	ALLEN-BRADLEY	3
25	ETHERNET AND FIBER SWITCH	EDS-G205-1GTZSFP-T	MOXA	1
26	FIBER SFP MODULES	SFP-1G10ALC	MOXA	1
27	MIPP, COPPER AND FIBER	MIPP/AD/CSE4/CSE4/1L2P/1LAP	BELDEN	1

60% REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED C. CARLSON
DRAWN J. VONDERAHE
CHECKED D. SPENCER
APPROVED Approver

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME 3739-007 SEMHILL.rvt
JOB No. 216-3739-007 (PH2)
DATE SEPTEMBER 2025

CAMERON BUI CARLSON
STATE OF WASHINGTON
21023636
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER

DATE

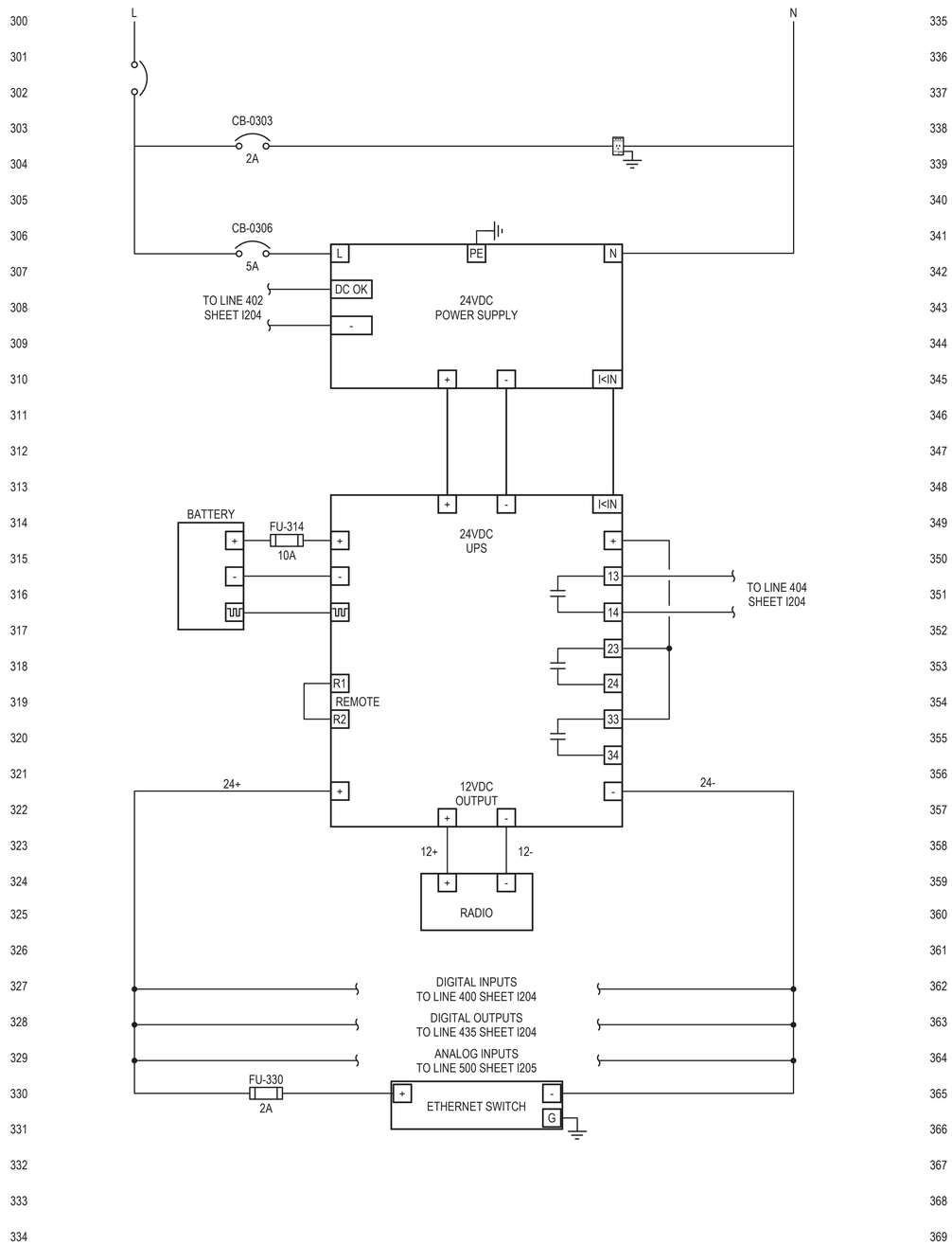
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN

CENTRALIA, WASHINGTON

PANEL LAYOUT

DRAWING NO.
OF 0

I202



60% REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED C. CARLSON
DRAWN J. VONDERAHE
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APPROVED Approver

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IF NOT, SCALE ACCORDINGLY

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JOB No. 216-3739-007 (PH2)
DATE SEPTEMBER 2025

PRELIMINARY
CAMERON BUI CARLSON
STATE OF WASHINGTON
21023636
REGISTERED
PROFESSIONAL ENGINEER

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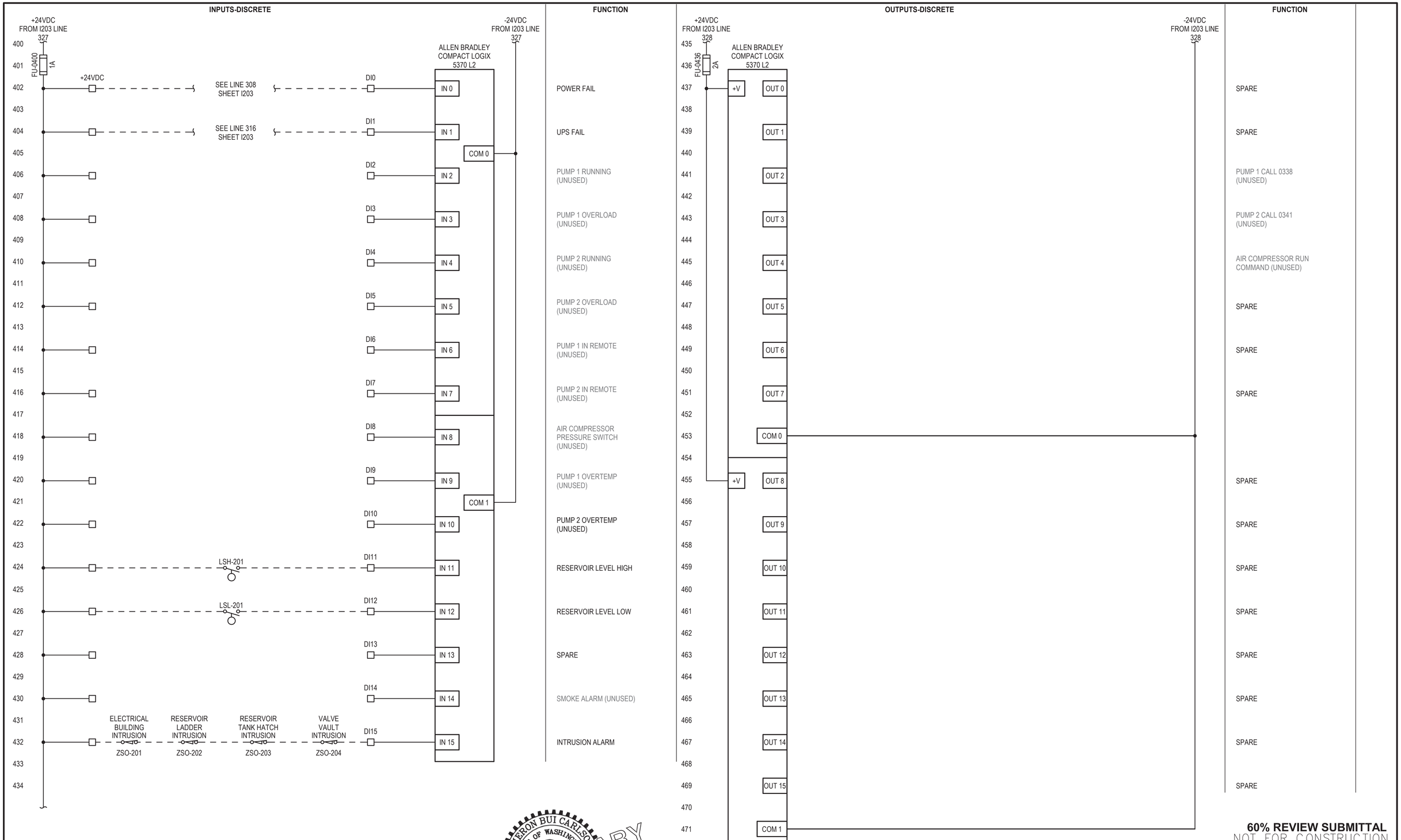
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
CENTRALIA, WASHINGTON

MCP-200 WIRING DIAGRAM 1 OF 3

DRAWING NO. I203
OF 0



60% REVIEW SUBMITTAL
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	REVISIONS	DATE	BY

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DRAWN J. VONDERAHE
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FILE NAME 3739-007 SEMHILL.rvt
JOB No. 216-3739-007 (PH2)
DATE SEPTEMBER 2025

CAMERON BUI CARLSON STATE OF WASHINGTON 21023636 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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PATTY PAGE, PE
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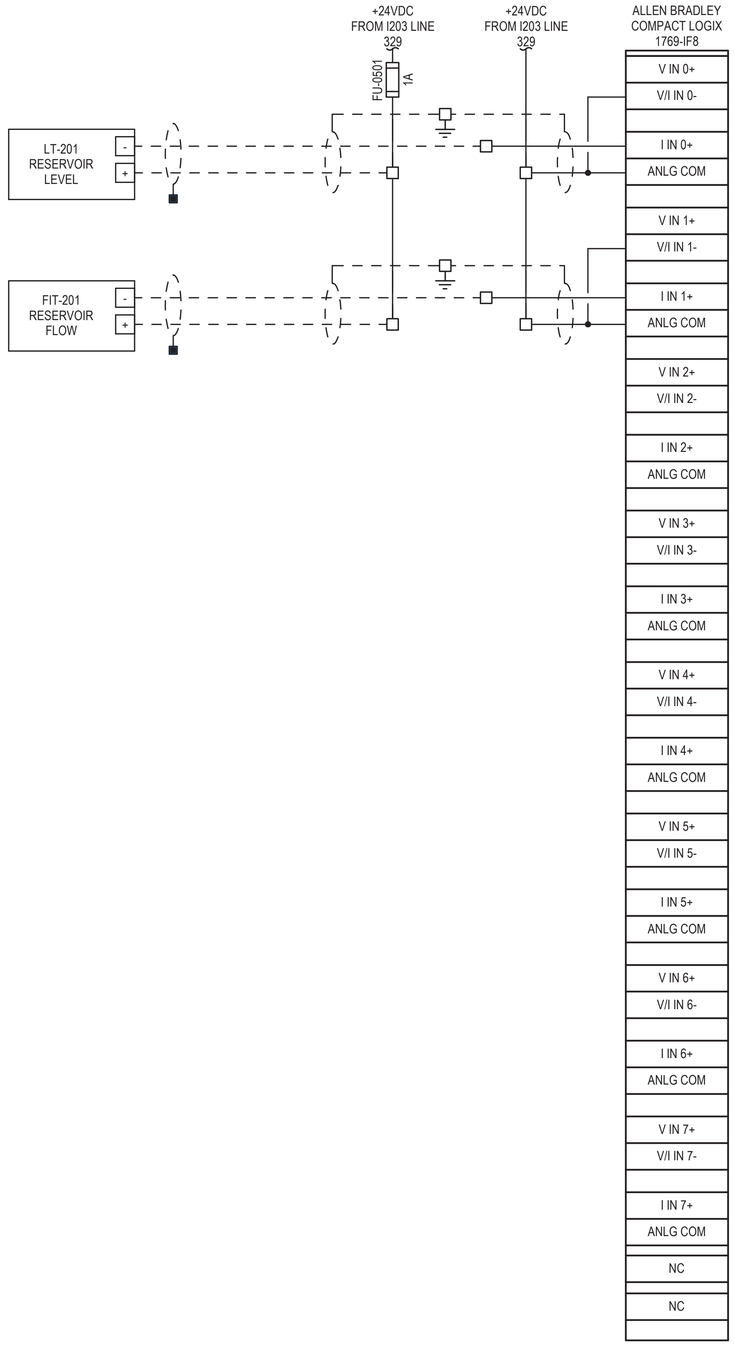
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
CENTRALIA, WASHINGTON

MCP-200 WIRING DIAGRAM 2 OF 3

DRAWING NO. I204
OF 0



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	536	
RESERVOIR LEVEL	537	
	538	
	539	
	540	
RESERVOIR FLOW	541	
	542	
	543	
	544	
BOOSTER STATION FLOW (UNUSED)	545	
	546	
	547	
	548	
INLET PRESSURE (UNUSED)	549	
	550	
	551	
	552	
OUTLET PRESSURE UNUSED)	553	
	554	
	555	
	556	
SPARE	557	
	558	
	559	
	560	
SPARE	561	
	562	
	563	
	564	
SPARE	565	
	566	
	567	
	568	
	569	

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DATE SEPTEMBER 2025

PRELIMINARY
CAMERON BUI CARLSON
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21023636
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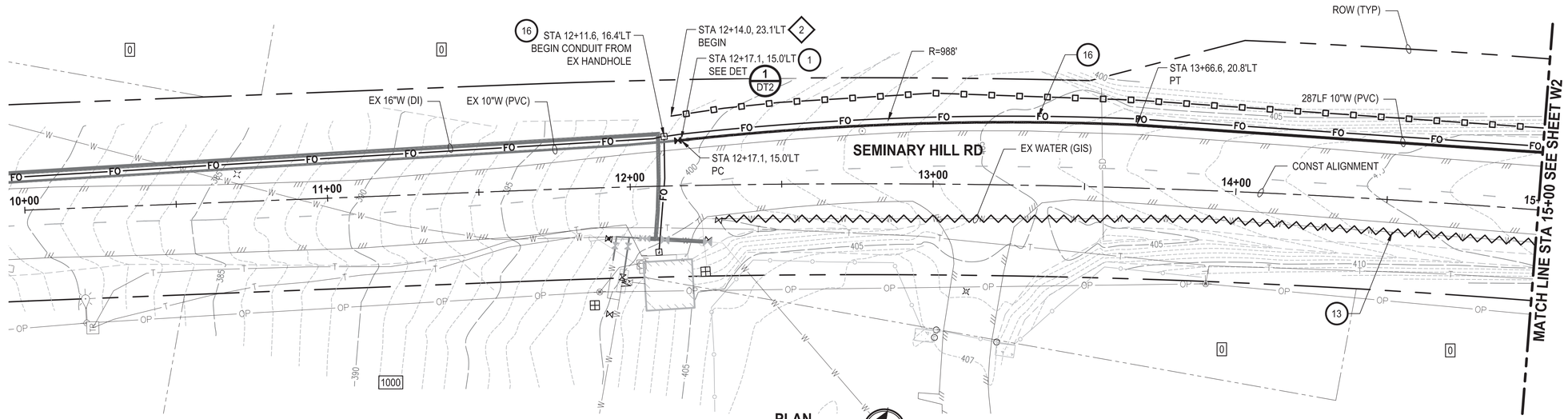
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
CENTRALIA, WASHINGTON

MCP-200 WIRING DIAGRAM 3 OF 3

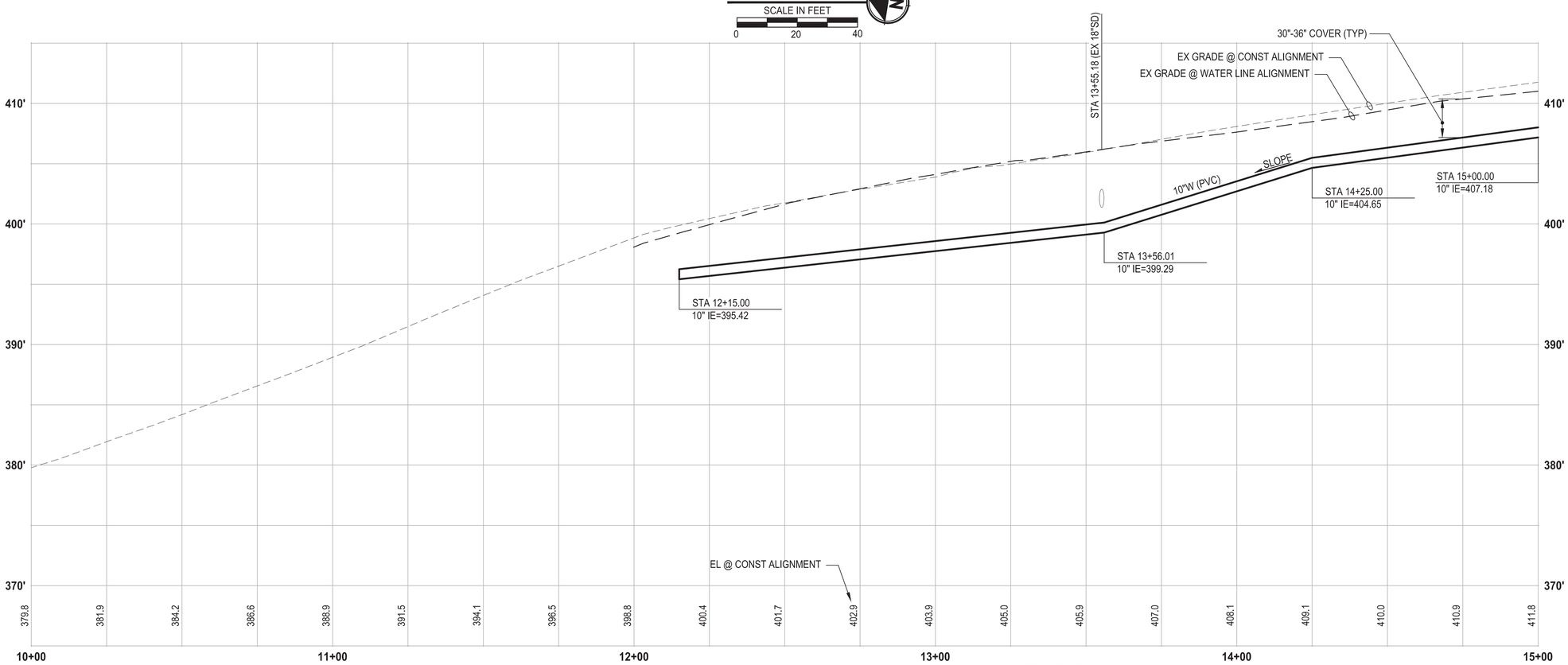
DRAWING NO. OF 0
I205



PLAN

SCALE IN FEET

0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

1. CONNECT TO EXISTING WATER
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.

TESC NOTES

2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W1-5
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
39287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 10+00 TO 15+00

DRAWING NO.
OF 91
W1

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\995vcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:03:11 PM
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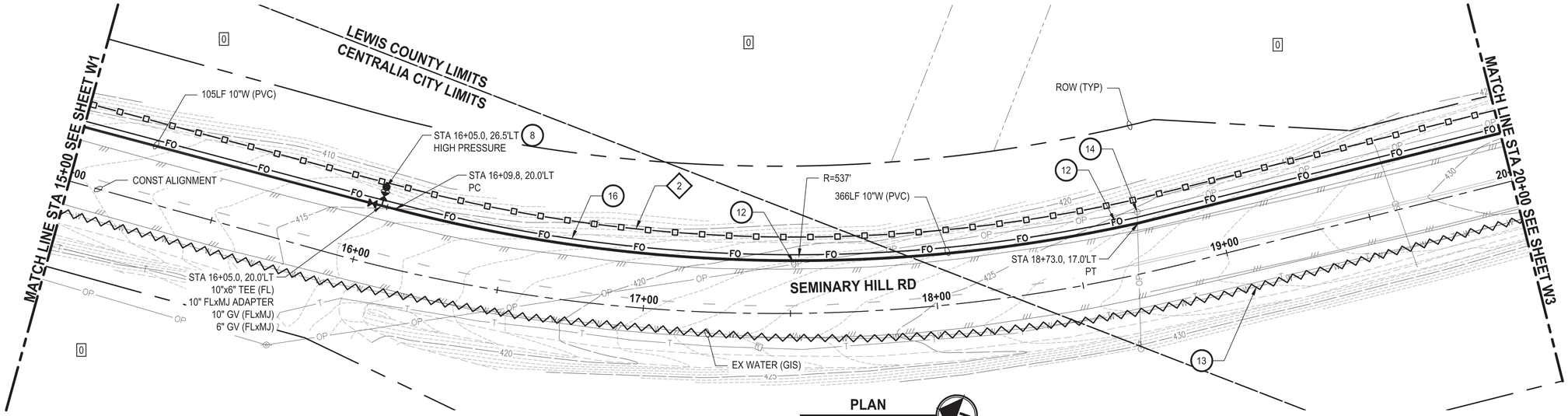
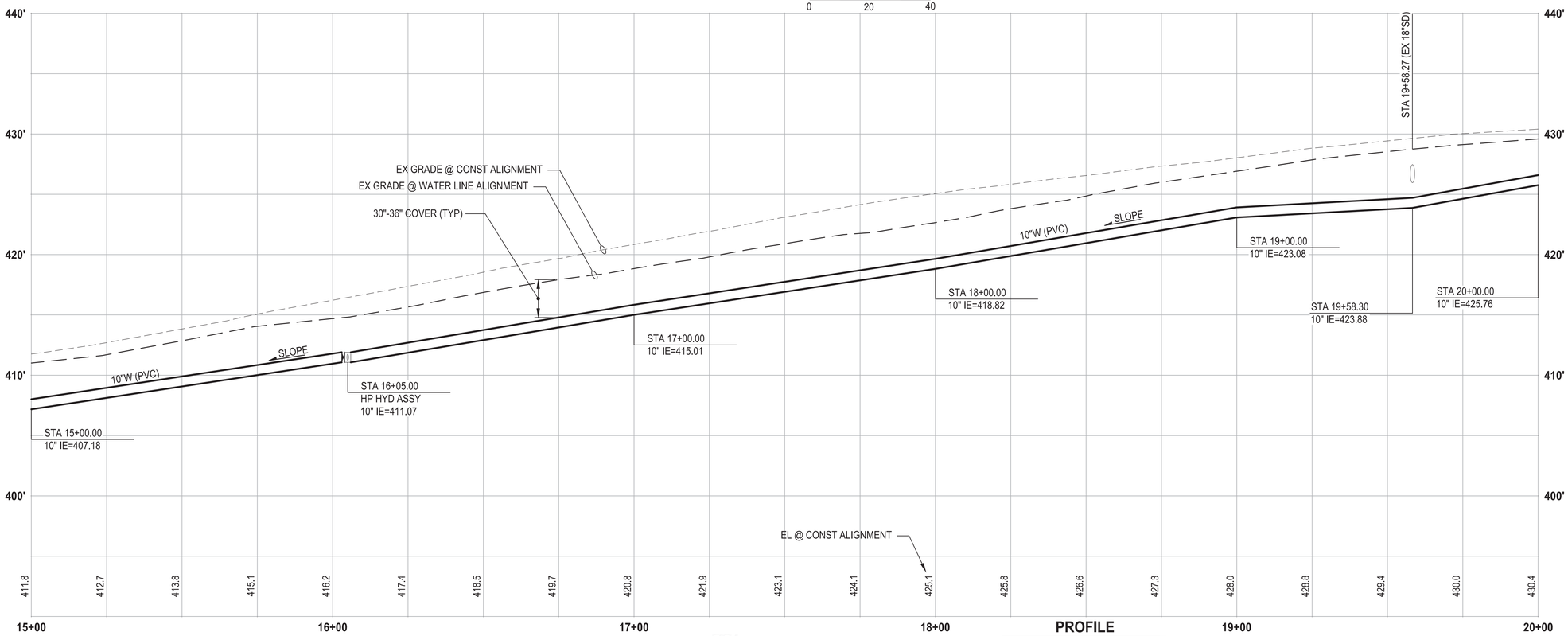


PLAN

SCALE IN FEET

0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
12. RESET SIGN
13. ABANDON EXISTING AC WATER MAIN
14. POLE HOLD. COORDINATE W/ POWER CO.
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.

TESC NOTES

2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

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9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W1-5
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG · STATE OF WASHINGTON · 35287 · REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 15+00 TO 20+00

DRAWING NO.
OF 91
W2

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDwg\995vcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:03:41 PM
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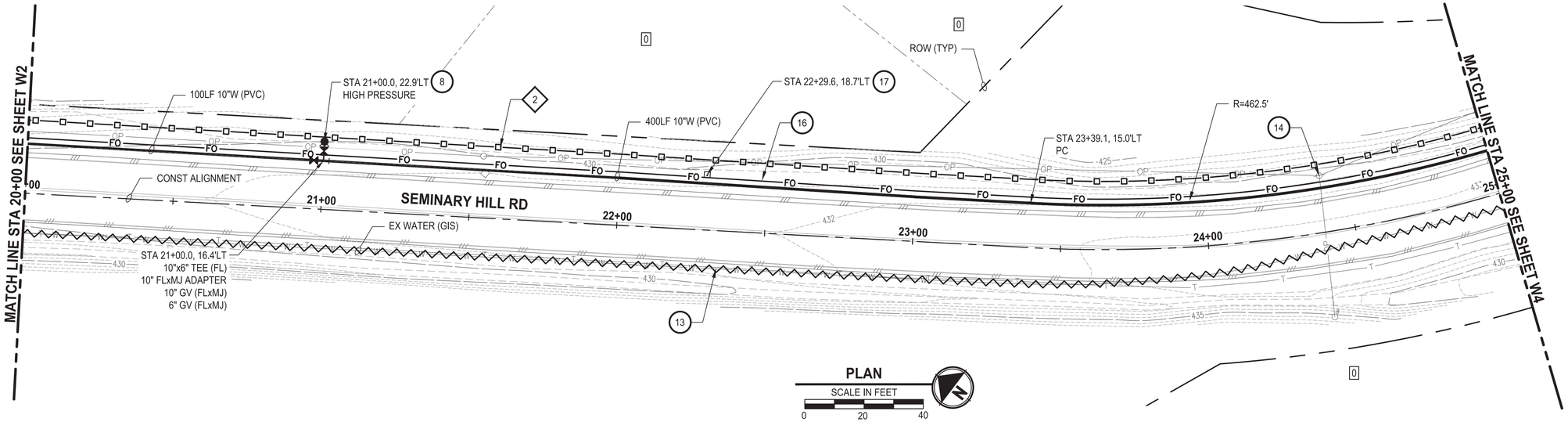
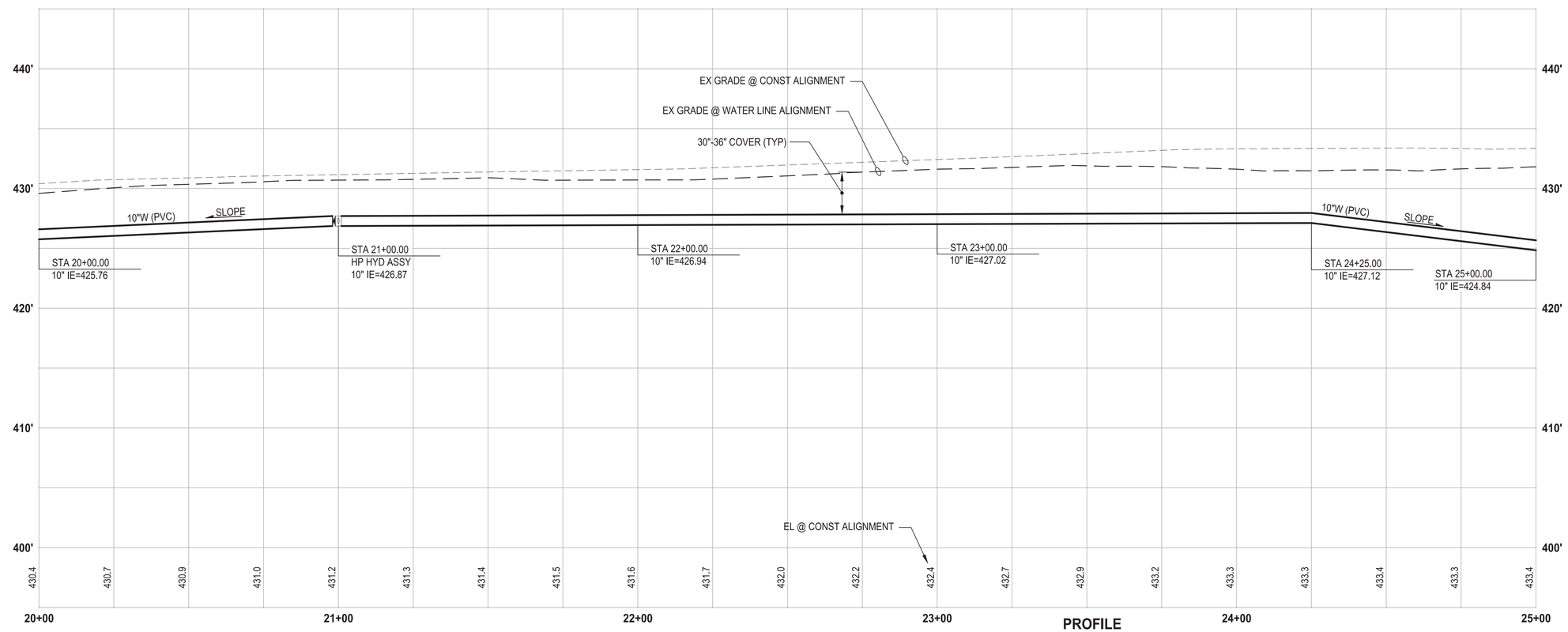


PLAN

SCALE IN FEET
0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
13. ABANDON EXISTING AC WATER MAIN
14. POLE HOLD. COORDINATE W/ POWER CO.
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
17. INSTALL HANDHOLE

TESC NOTES

2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
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60 % REVIEW SUBMITTAL
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	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS37390007P3-W1-5
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 56287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 20+00 TO 25+00

DRAWING NO.
OF 91
W3

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toykokat DATE: Wednesday, September 3, 2025 3:04:11 PM
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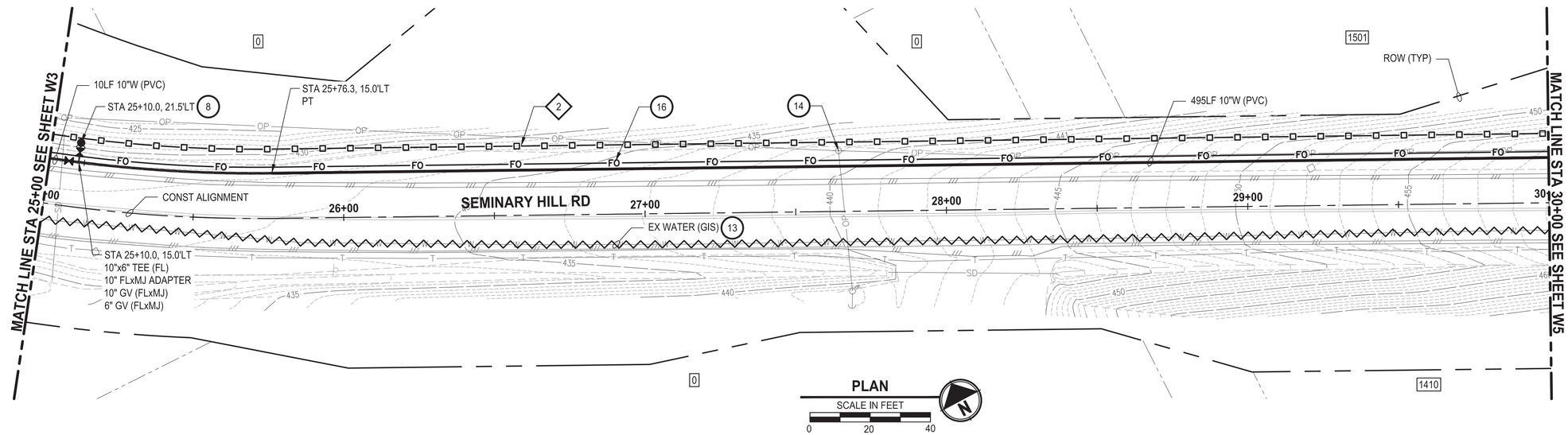

PLAN

SCALE IN FEET

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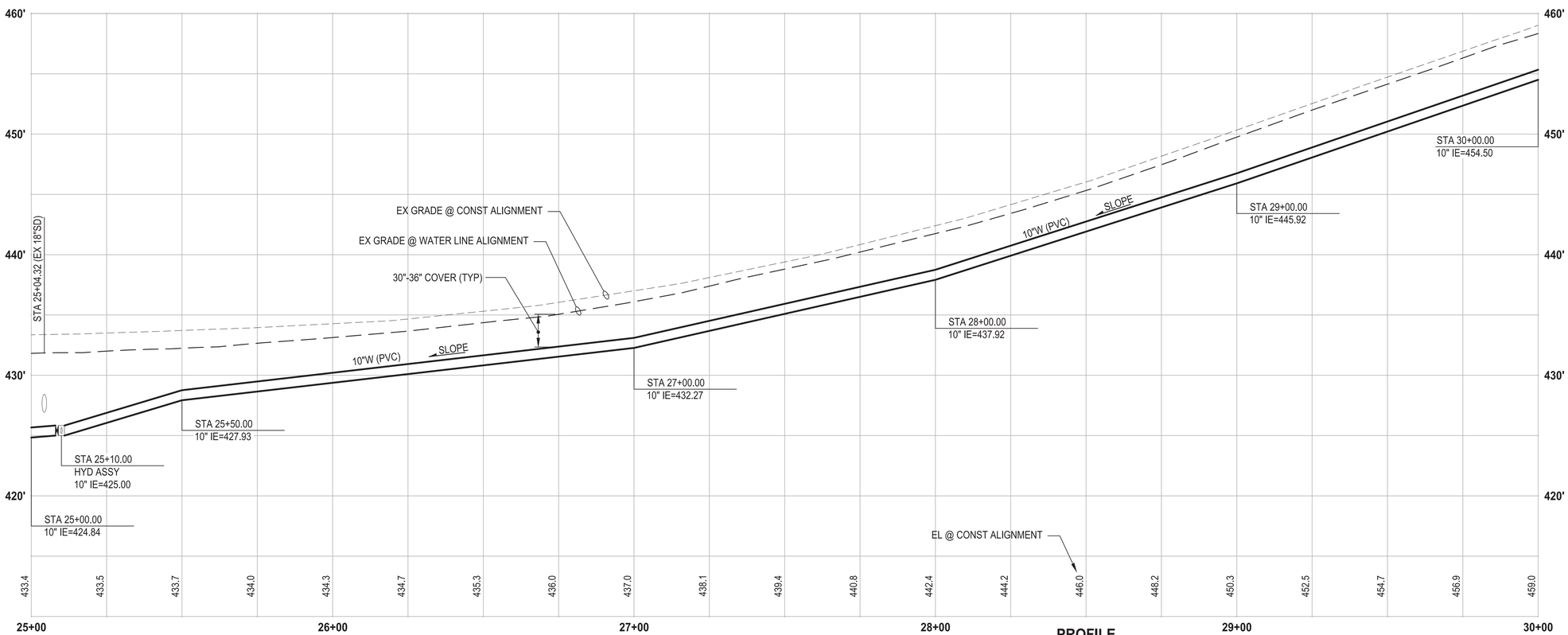

PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

13 ABANDON EXISTING AC WATER MAIN

14 POLE HOLD. COORDINATE W/ POWER CO.

16 INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.

TESC NOTES

2 PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.

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REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W1-5
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 38287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE STA 25+00 TO 30+00

DRAWING NO. ##### OF 91
W4

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:04:40 PM
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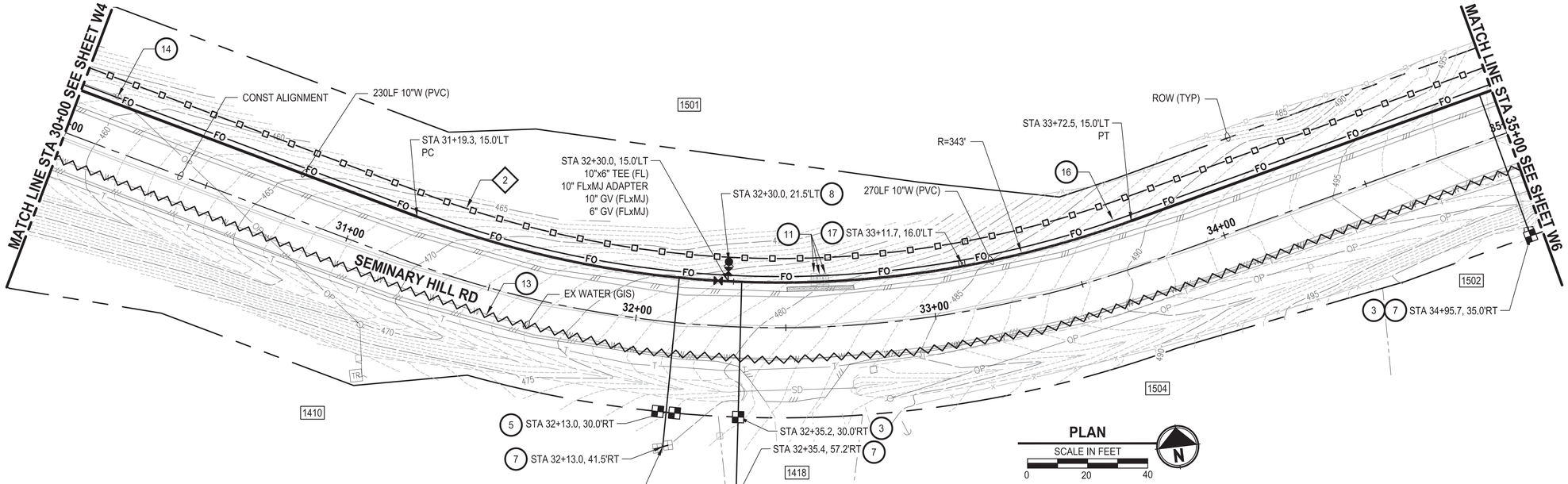

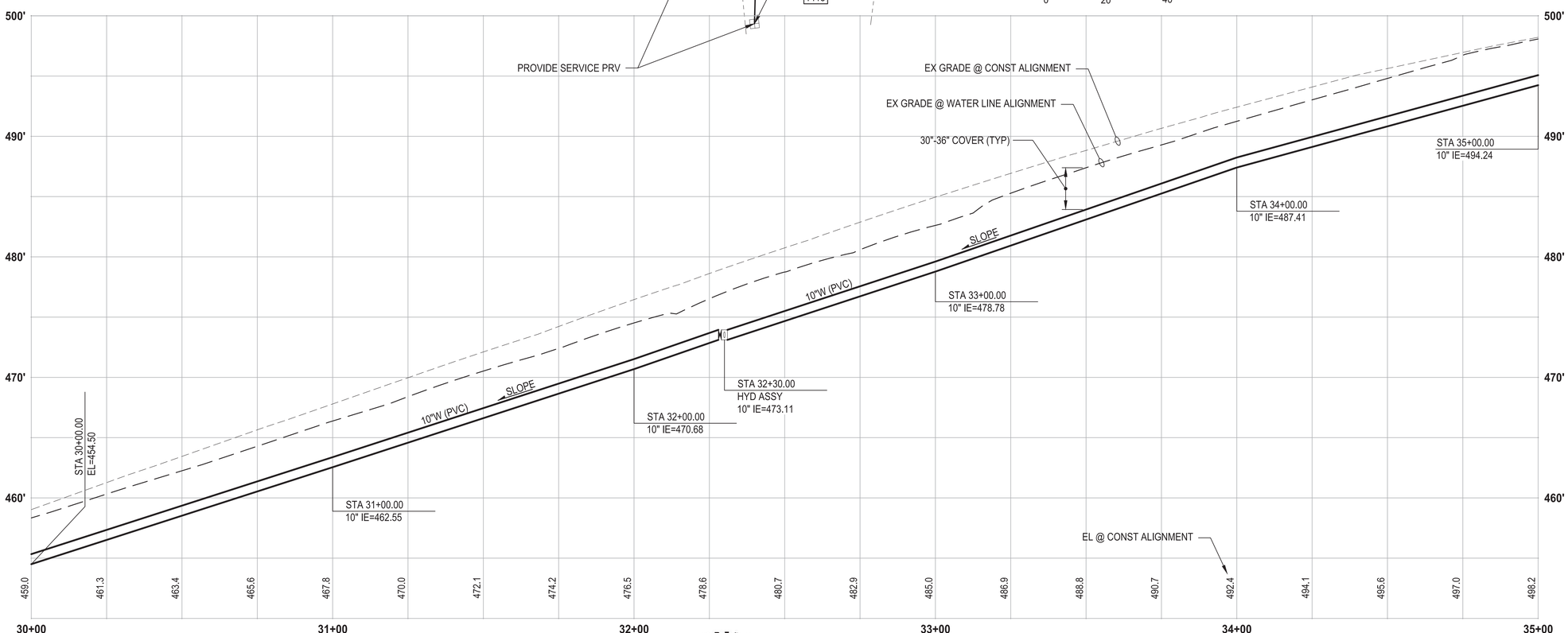

PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
5. INSTALL ¾" DOUBLE WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-62
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
11. RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
13. ABANDON EXISTING AC WATER MAIN
14. POLE HOLD. COORDINATE W/ POWER CO.
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
17. INSTALL HANDHOLE

TESC NOTES

2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

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9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W1-5
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 54287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

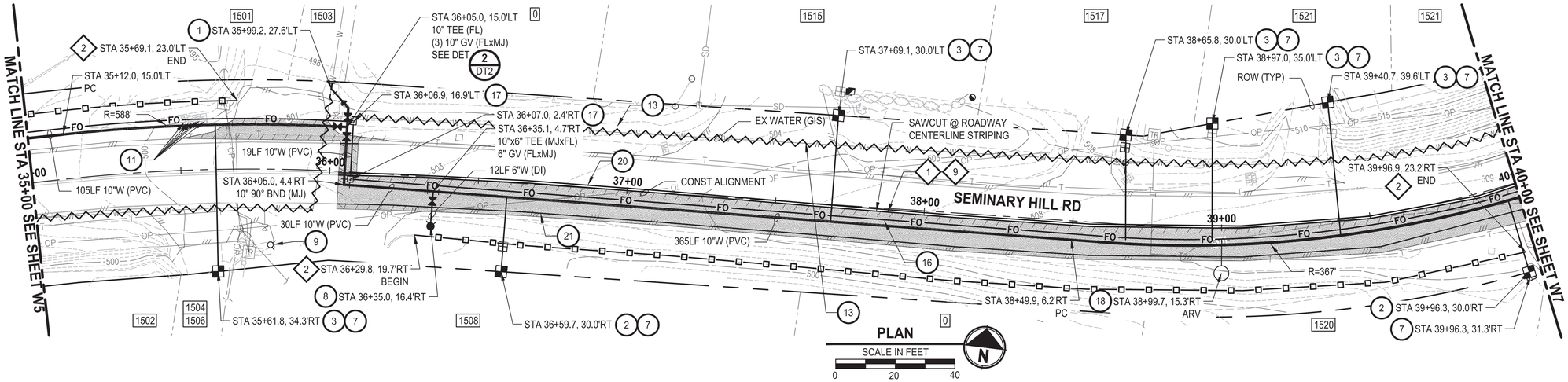
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 30+00 TO 35+00

DRAWING NO.
OF 91
W5

LAYOUT: W5 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:05:10 PM



PLAN

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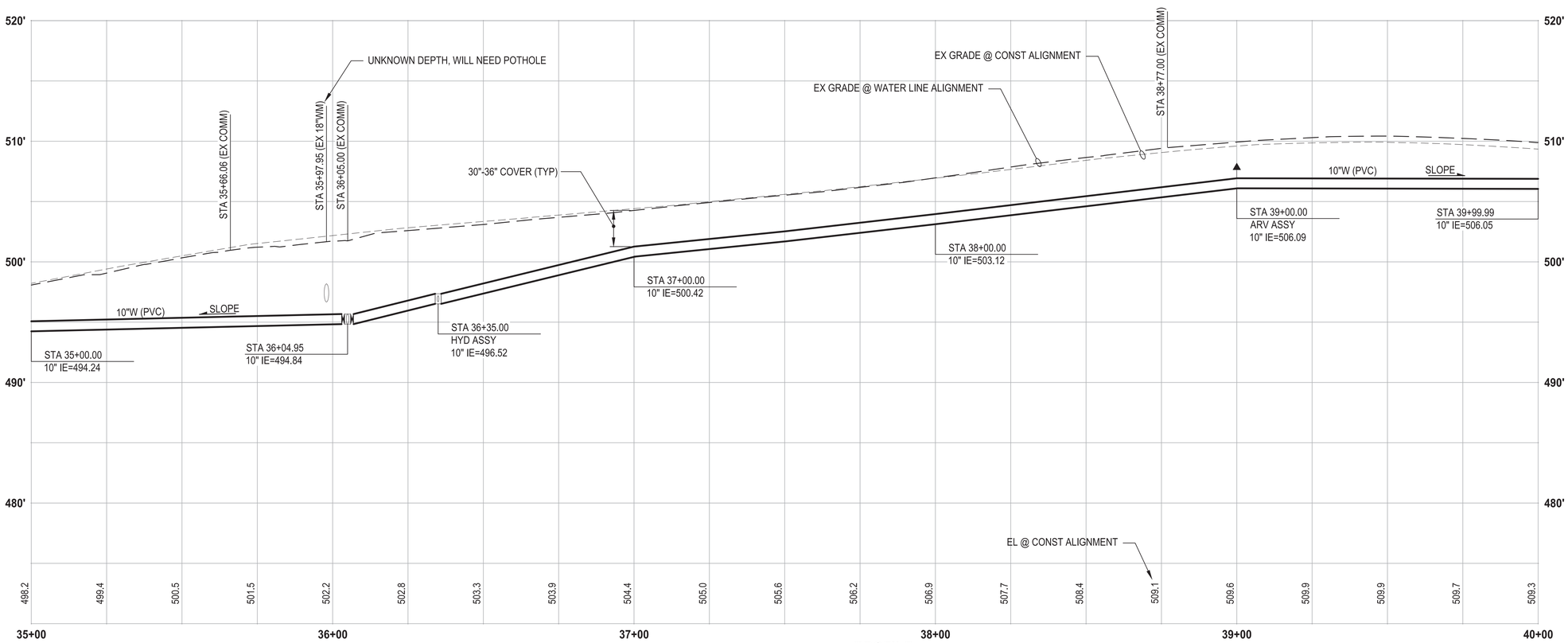


PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

1. CONNECT TO EXISTING WATER
2. INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-02
9. REMOVE EXISTING HYDRANT
11. RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
18. INSTALL COMBO AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 2 IN. PER COC STD PLAN NO. 2-13
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W6-10
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 36287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

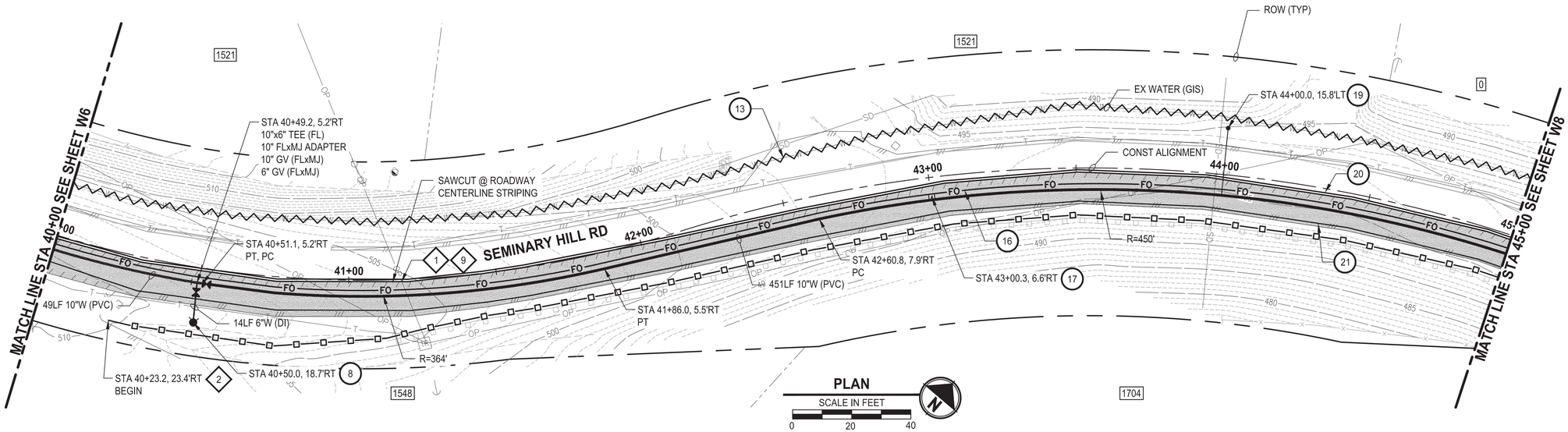
PATTY PAGE, PE
CITY ENGINEER
DATE

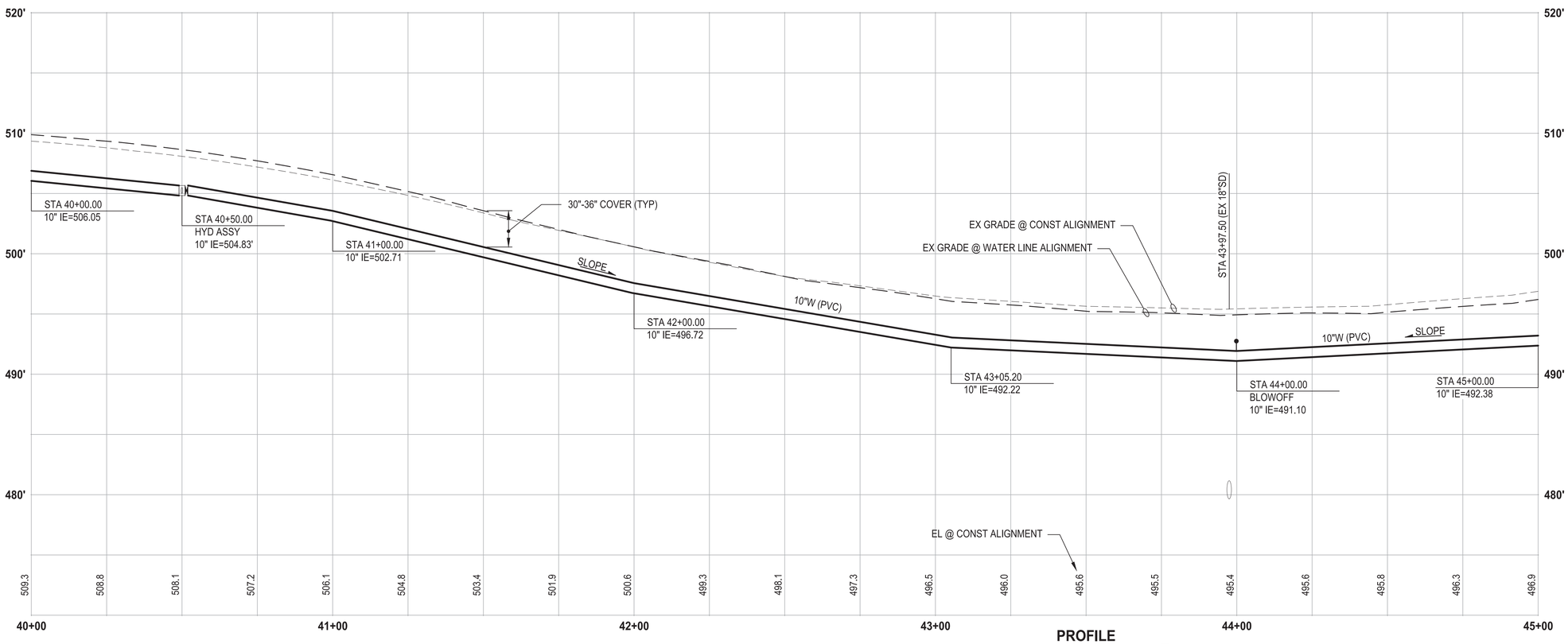
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE STA 35+00 TO 40+00

DRAWING NO. ##### OF 91
W6

LAYOUT: W6 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:07:50 PM





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
17. INSTALL HANDHOLE
19. INSTALL BLOWOFF VALVE PER COC STD PLAN 2-08-A
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

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2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W6-10
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
50287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 40+00 TO 45+00

DRAWING NO.
OF 91
W7

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:08:22 PM
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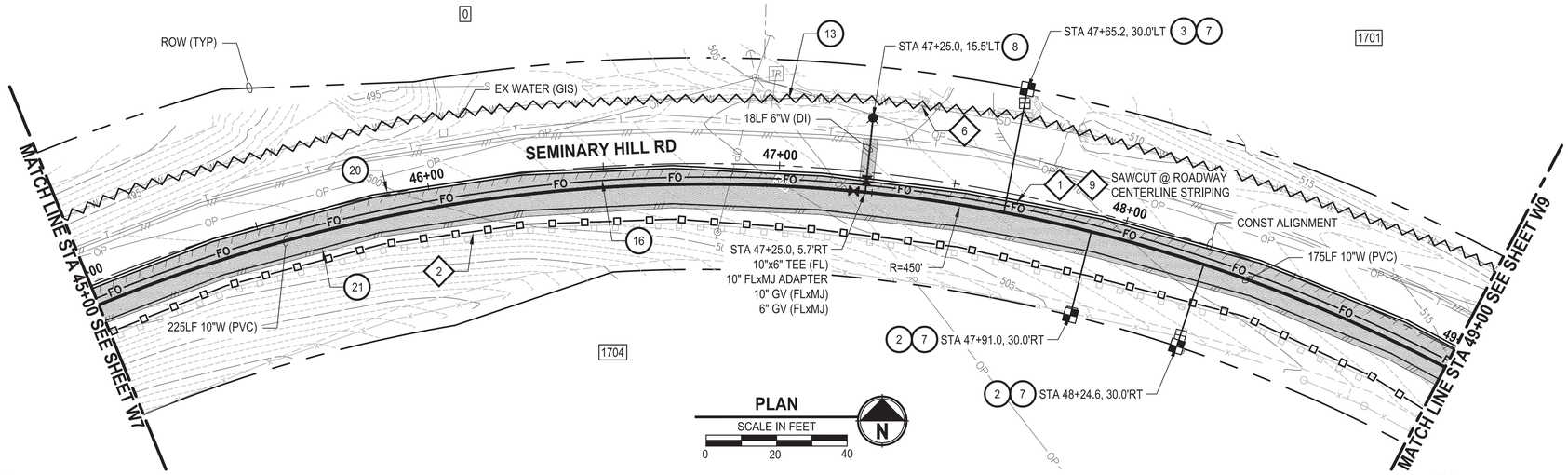

PLAN

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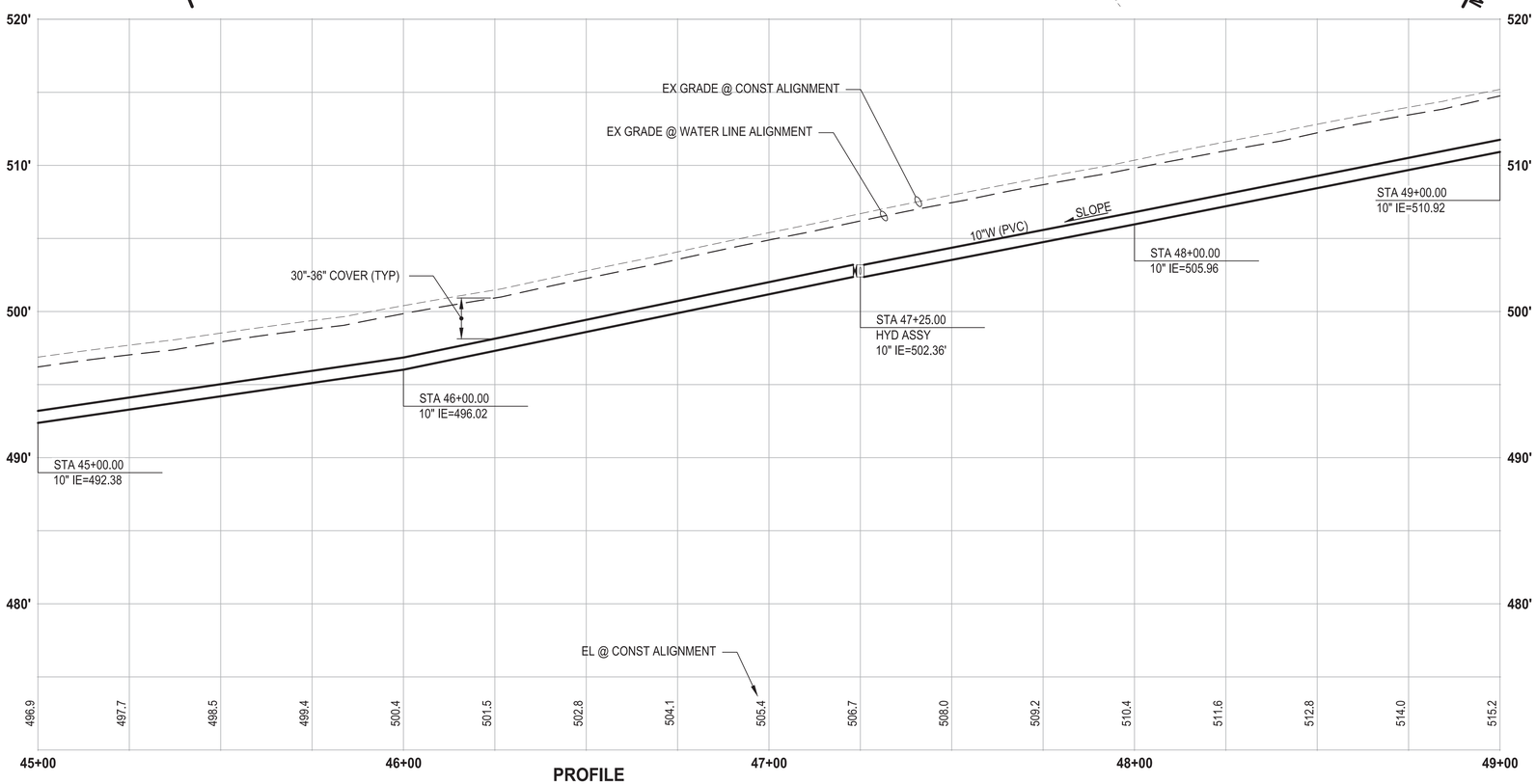

PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

2. INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD.PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
6. LOCATE END OF EX CULVERT AND EXCAVATE AS REQUIRED TO PROVIDE FOR CULVERT OPENING. REMOVE DEBRIS FROM EX CULVERT. PROPERLY CONTAIN AND DISPOSE OF REMOVED DEBRIS. PERFORM TV INSPECTION OF EX CULVERT. REPLACE EX CULVERT AS DIRECTED BY THE COUNTY.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

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4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W6-10
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG — STATE OF WASHINGTON — 50287 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 45+00 TO 49+00

DRAWING NO.
OF 91
W8

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:08:50 PM
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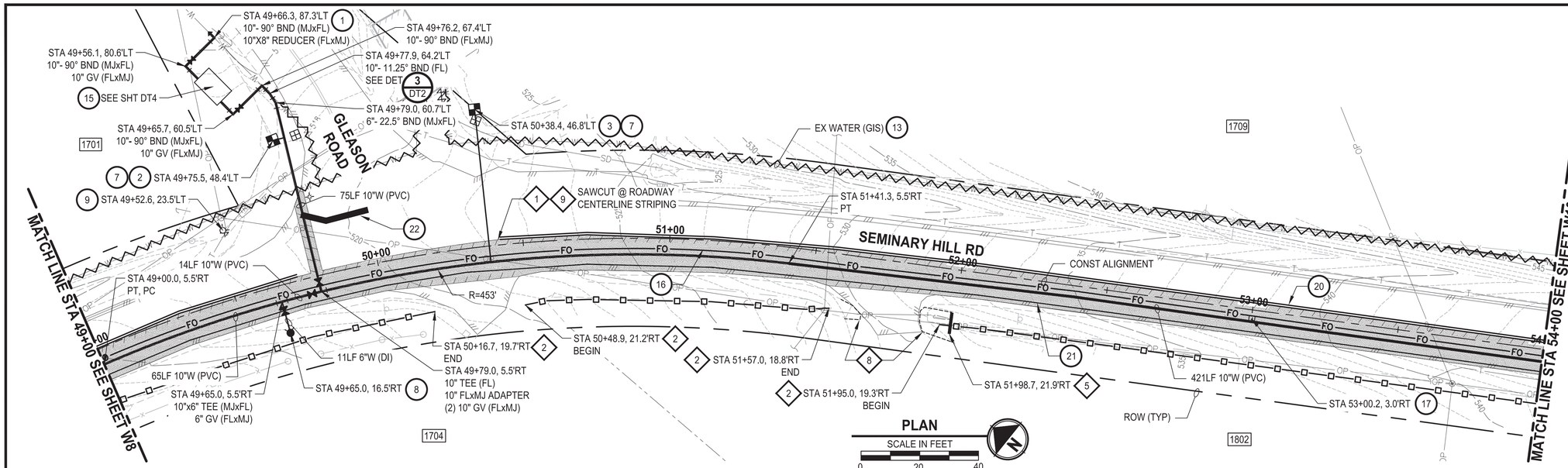

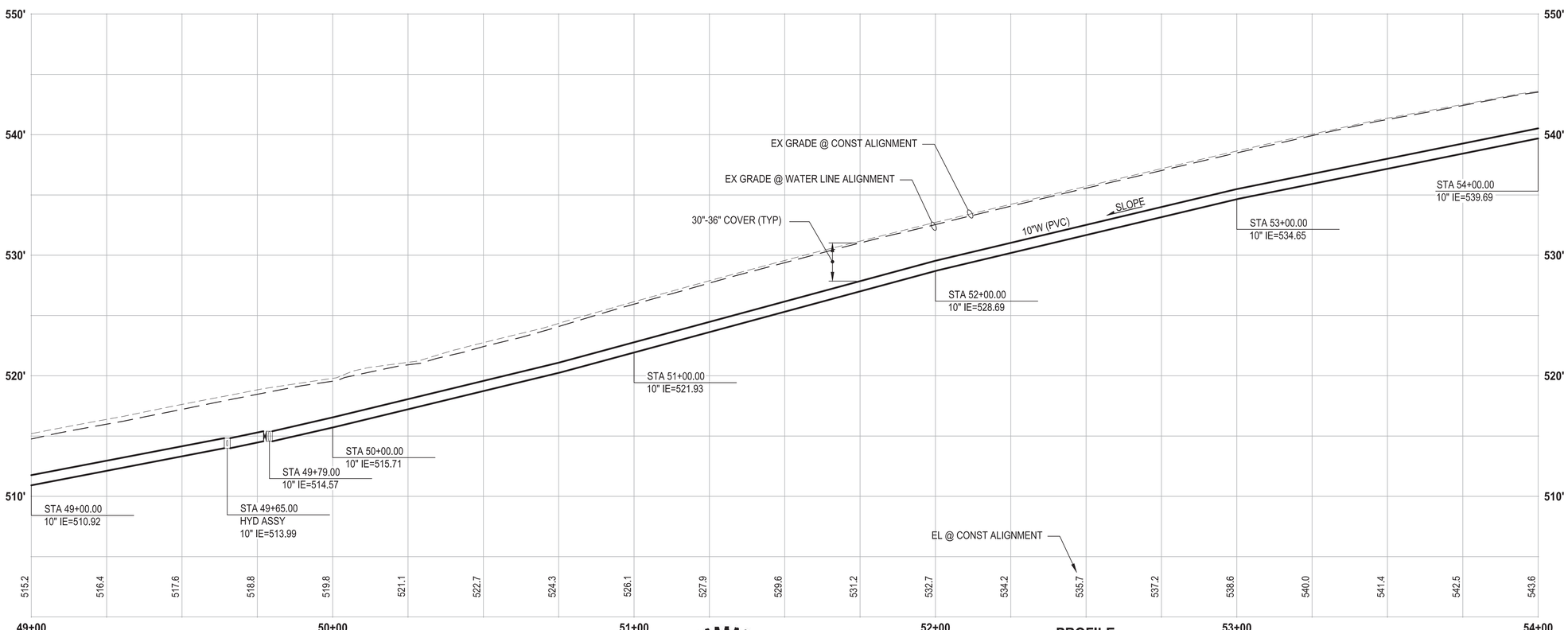

PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

1. CONNECT TO EXISTING WATER
2. INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
9. REMOVE EXISTING HYDRANT
13. ABANDON EXISTING AC WATER MAIN
15. PRV & VAULT. SEE SHEETS DT3-DT5
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
17. INSTALL HANDHOLE
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04
22. PAINTED STOP LINE PER WSDOT STD PLAN M-24.60-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
5. PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
8. PROVIDE EROSION CONTROL AT CULVERT ENDS IN ACCORDANCE WITH WSDOT STD PLANS I-30.10-02, I-30.10-02, AND I-80.10-02.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
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4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W6-10
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 39287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 49+00 TO 54+00

DRAWING NO.
OF 91
W9

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\995vcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:09:16 PM
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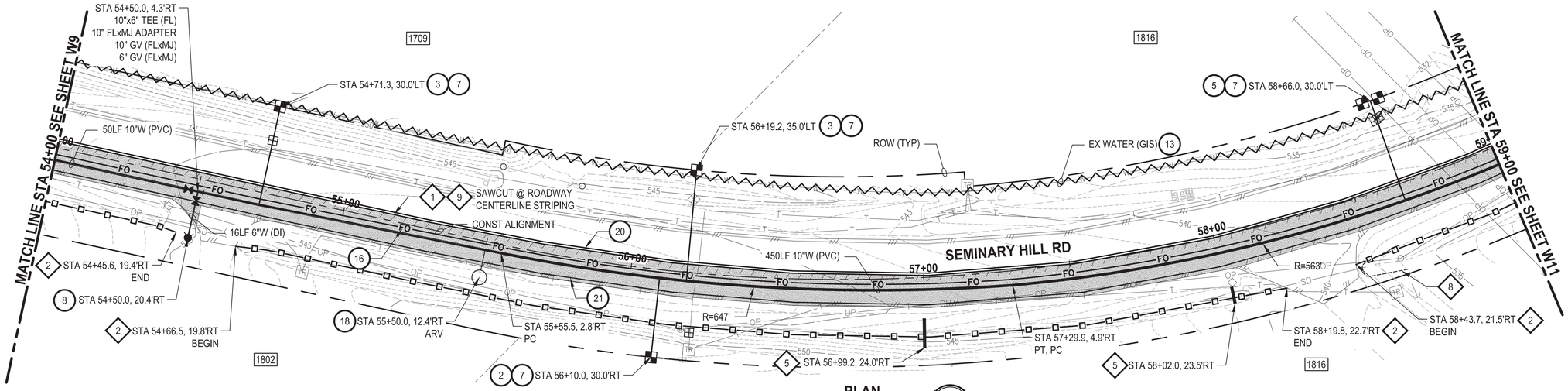

PLAN

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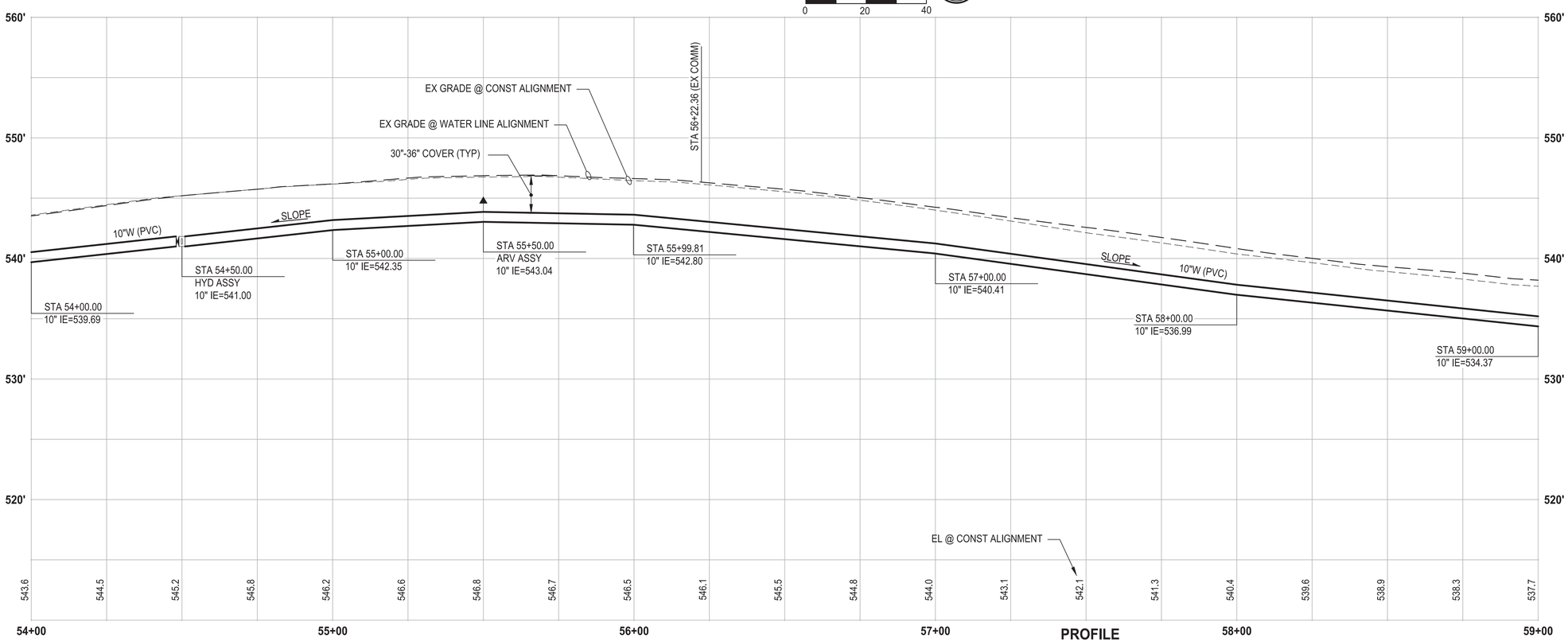

PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

(2) INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02

(3) INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02

(5) INSTALL ¾" DOUBLE WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-06

(7) CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.

(8) INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

(13) ABANDON EXISTING AC WATER MAIN

(16) INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.

(18) INSTALL COMBO AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 2 IN. PER COC STD PLAN NO. 2-13

(20) YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04

(21) WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

◇1 PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.

◇2 PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.

◇5 PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

◇8 PROVIDE EROSION CONTROL AT CULVERT ENDS IN ACCORDANCE WITH WSDOT STD PLANS I-30.10-02, I-30.10-02, AND I-80.10-02.

◇9 DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.

◇10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W6-10
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 35287 REGISTERED PROFESSIONAL ENGINEER
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PATTY PAGE, PE
CITY ENGINEER
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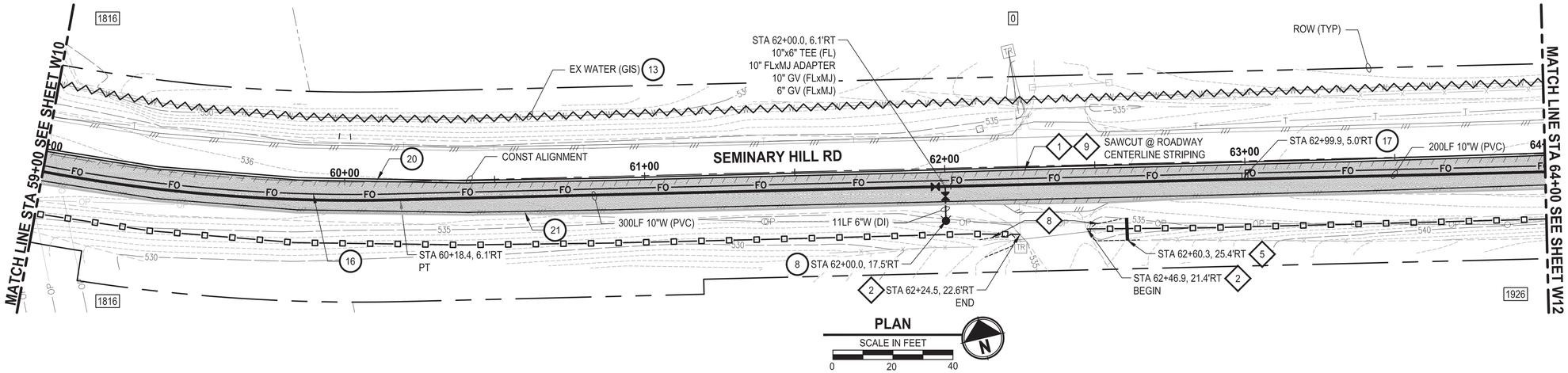
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 54+00 TO 59+00

DRAWING NO.
OF 91
W10

LAYOUT: W10 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill Prelim\dwg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:09:48 PM



PLAN

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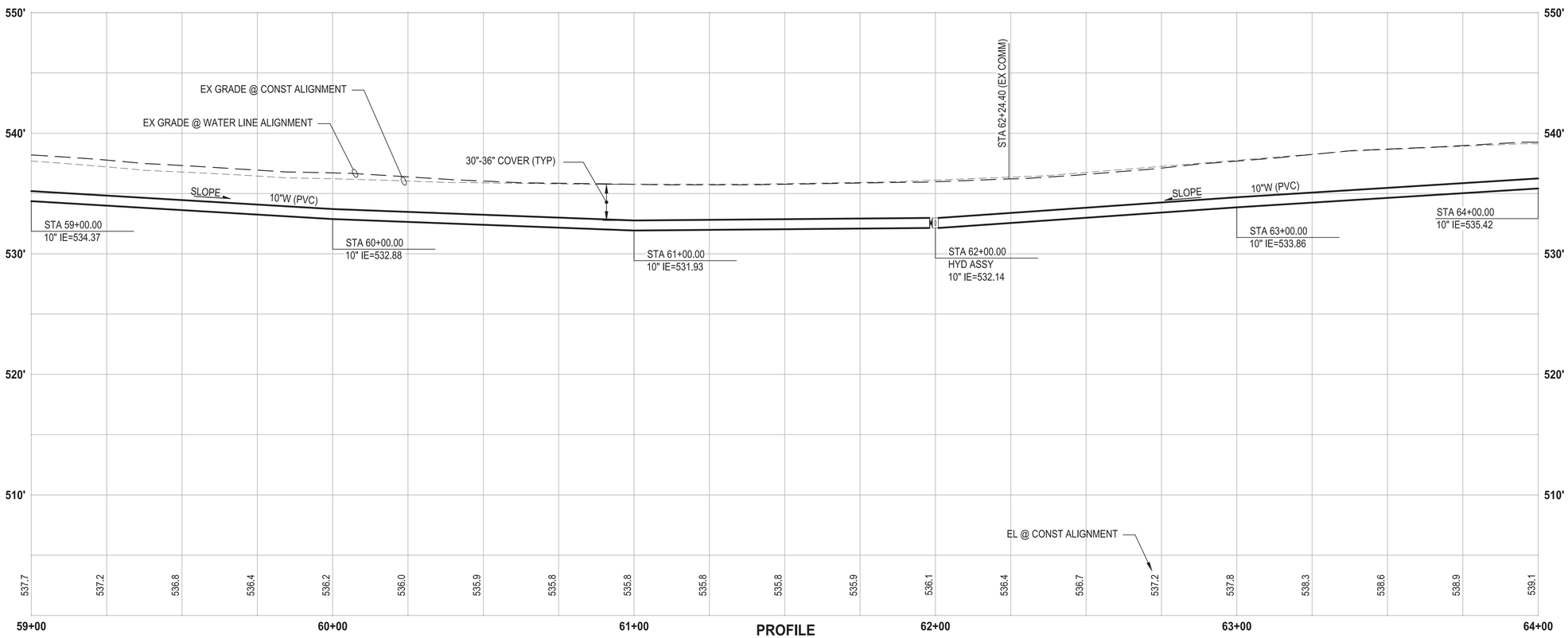

PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

13 ABANDON EXISTING AC WATER MAIN

16 INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.

17 INSTALL HANDHOLE

20 YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04

21 WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1 PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.

2 PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.

5 PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

8 PROVIDE EROSION CONTROL AT CULVERT ENDS IN ACCORDANCE WITH WSDOT STD PLANS I-30.10-02, I-30.10-02, AND I-80.10-02.

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6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
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	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W11-15
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 38287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

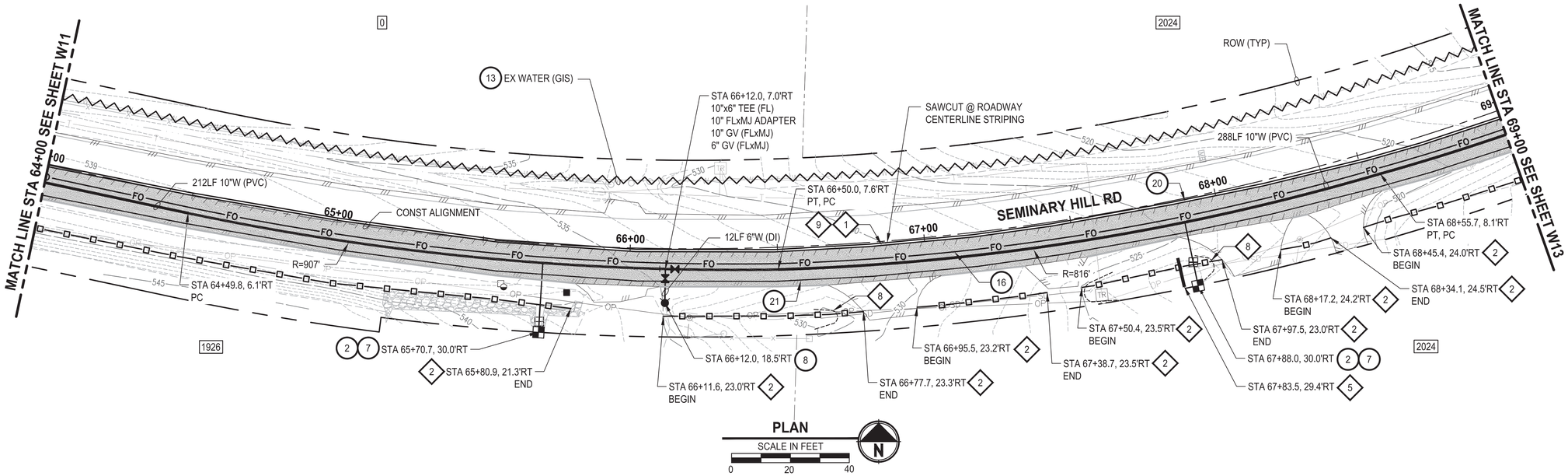
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 59+00 TO 64+00

DRAWING NO.
OF 91
W11

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:12:48 PM
LAYOUT: W11



PLAN

SCALE IN FEET
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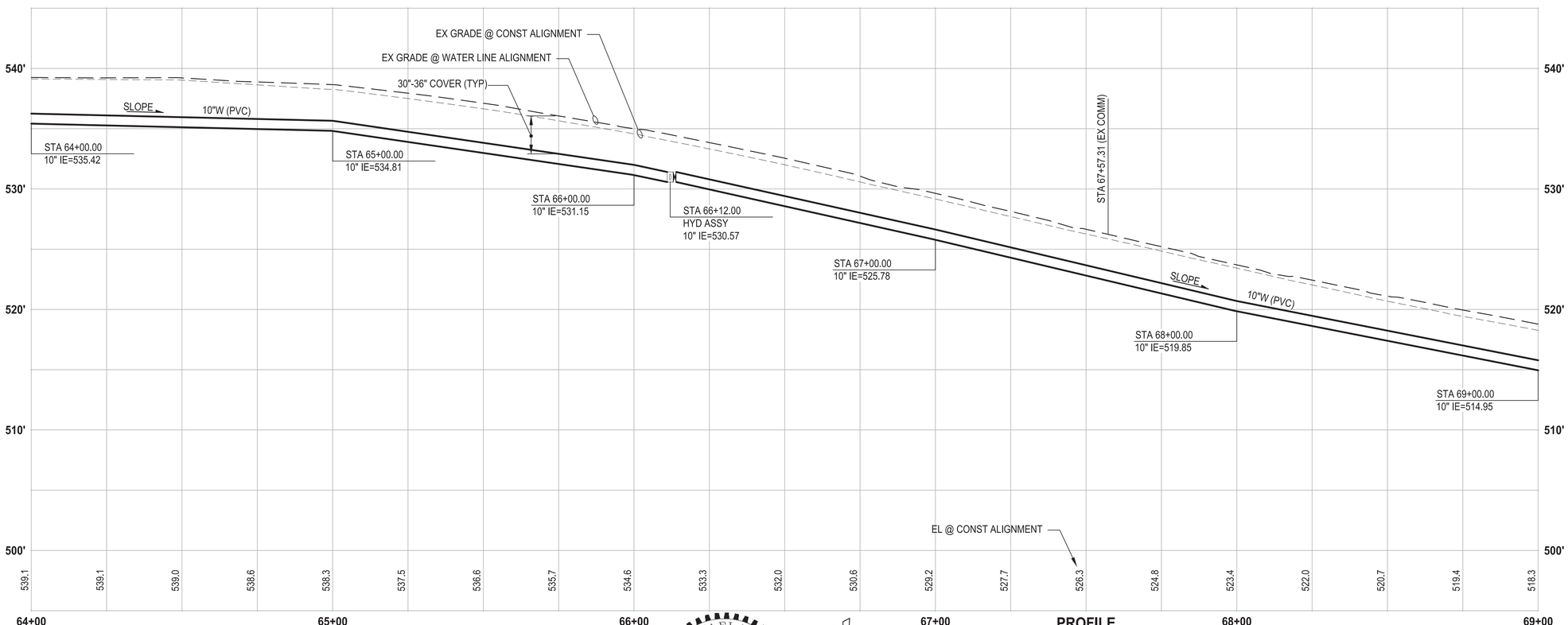


PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

2. INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
5. PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
8. PROVIDE EROSION CONTROL AT CULVERT ENDS IN ACCORDANCE WITH WSDOT STD PLANS I-30.10-02, I-30.10-02, AND I-80.10-02.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W11-15
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG — STATE OF WASHINGTON — 35287 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

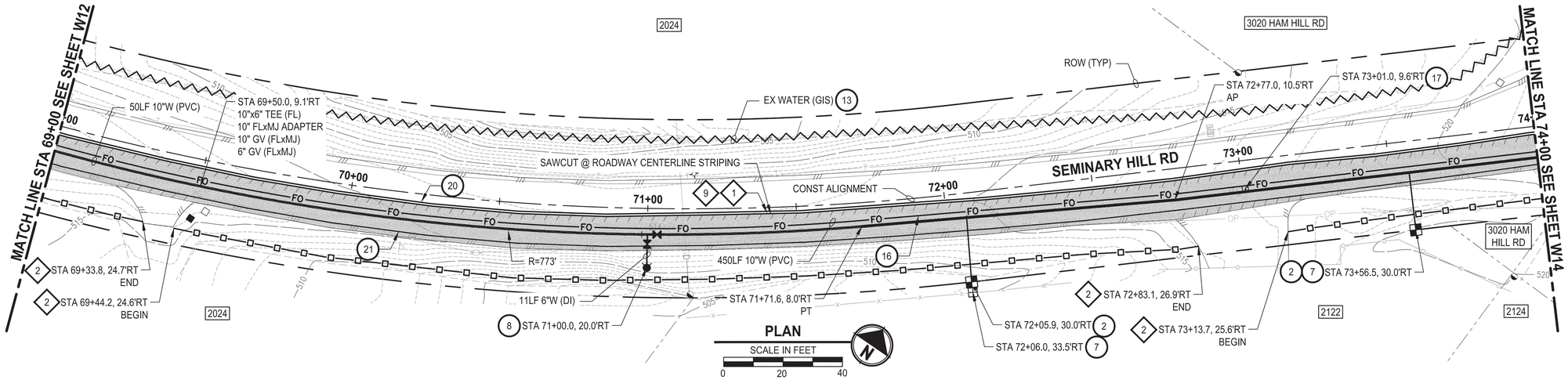
PATTY PAGE, PE
CITY ENGINEER
DATE

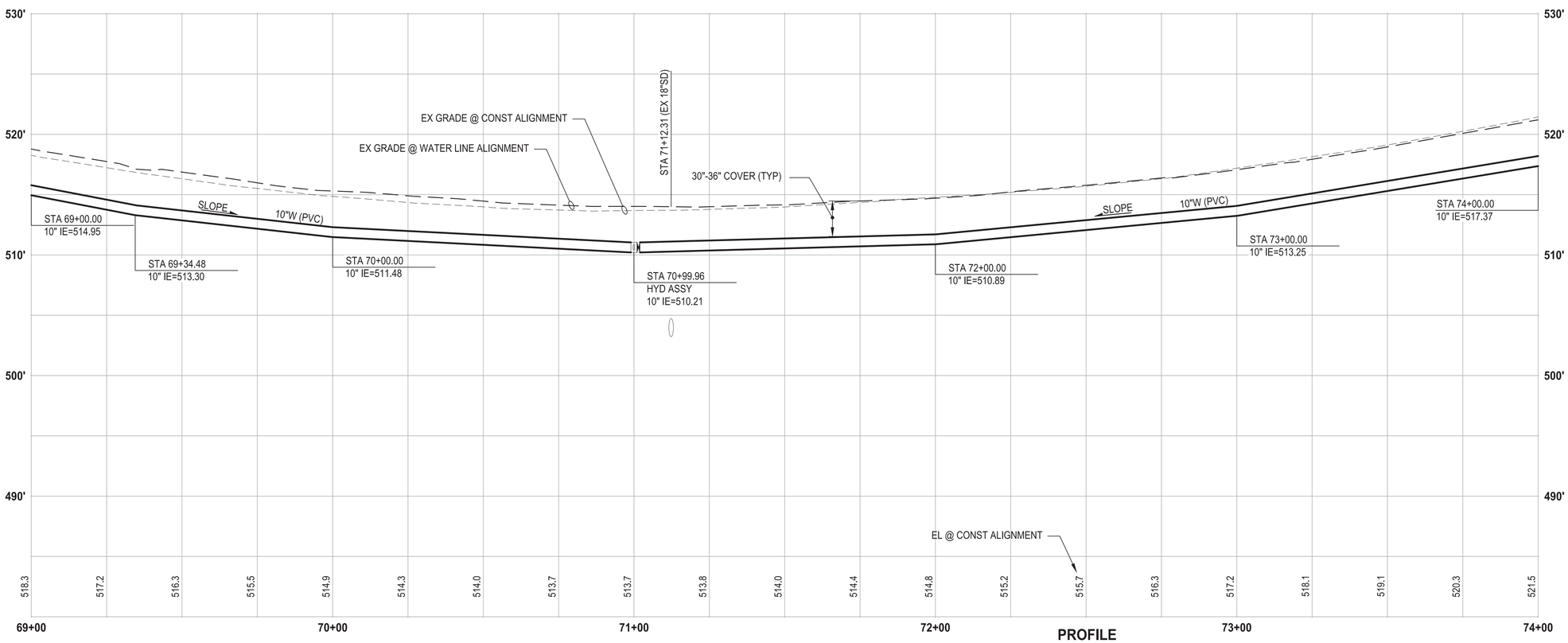
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 64+00 TO 69+00

DRAWING NO.
OF 91
W12

LAYOUT: W12 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill Prelim\dwg\99Svcs\CADD\DWG\Ph 3 PLOTTED BY: taylorkat DATE: Wednesday, September 3, 2025 3:13:20 PM





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

2. INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-02
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
17. INSTALL HANDHOLE
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W11-15
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG · STATE OF WASHINGTON · 36287 · REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 69+00 TO 74+00

DRAWING NO. ##### OF 91
W13

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:13:50 PM
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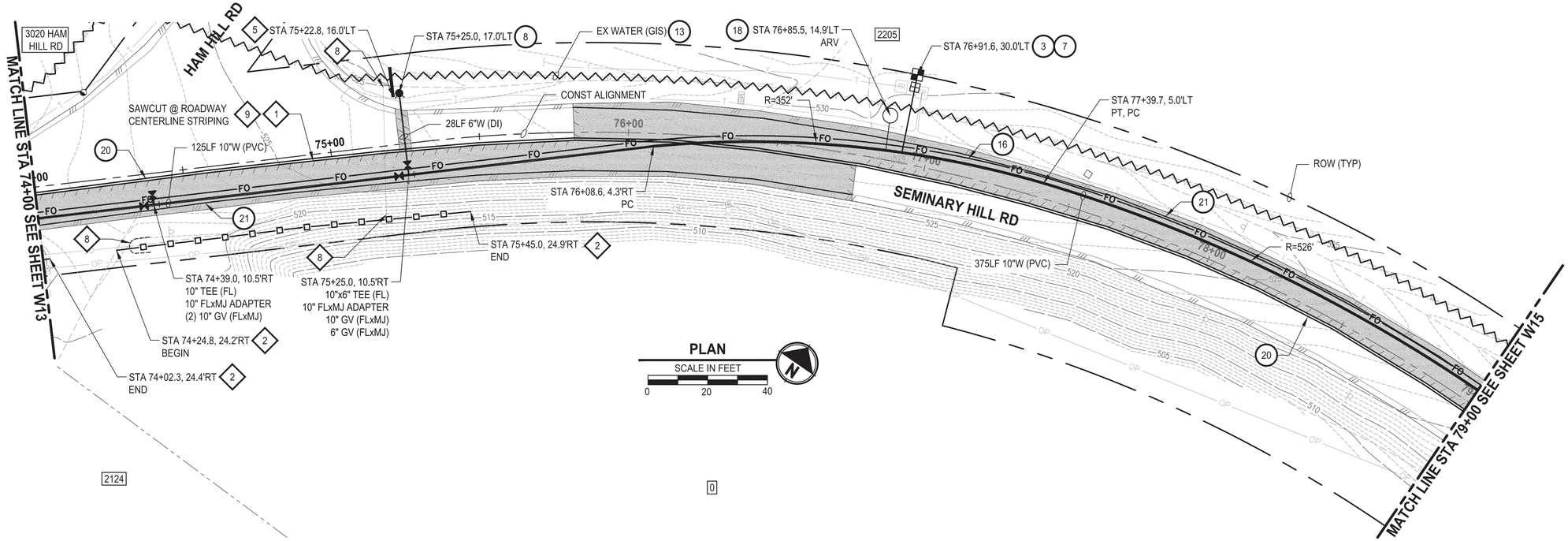

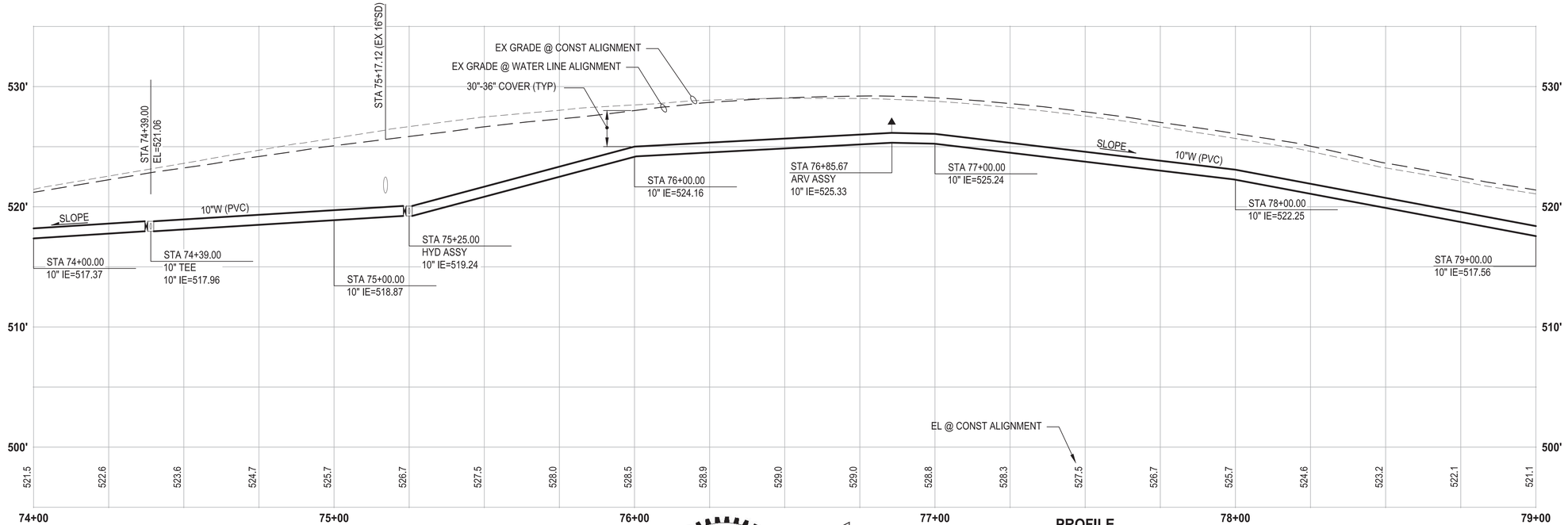

PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
18. INSTALL COMBO AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 2 IN. PER COC STD PLAN NO. 2-13
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
5. PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
8. PROVIDE EROSION CONTROL AT CULVERT ENDS IN ACCORDANCE WITH WSDOT STD PLANS I-30.10-02, I-30.10-02, AND I-80.10-02.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

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6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS37390007P3–W11–15
JOB No. 216–3739–007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG · STATE OF WASHINGTON · 56287 · REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 74+00 TO 79+00

DRAWING NO.
OF 91
W14

PATH: U:\PSO\Projects\Clients\3739–City of Centralia\216–3739–007 SemHill PrelimDeg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:14:25 PM
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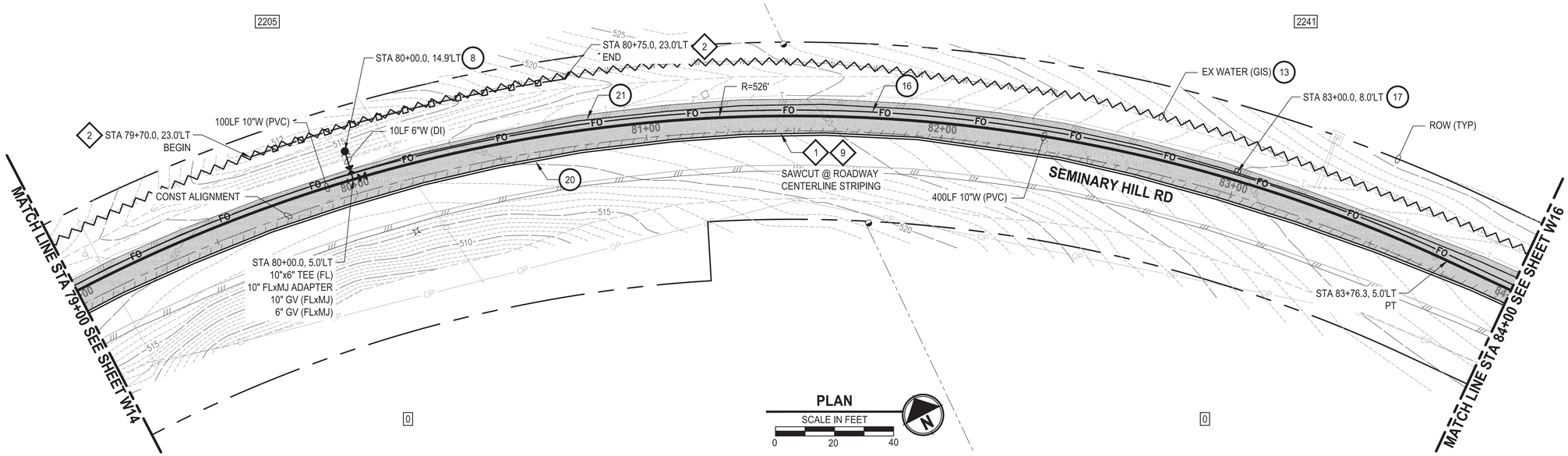

PLAN

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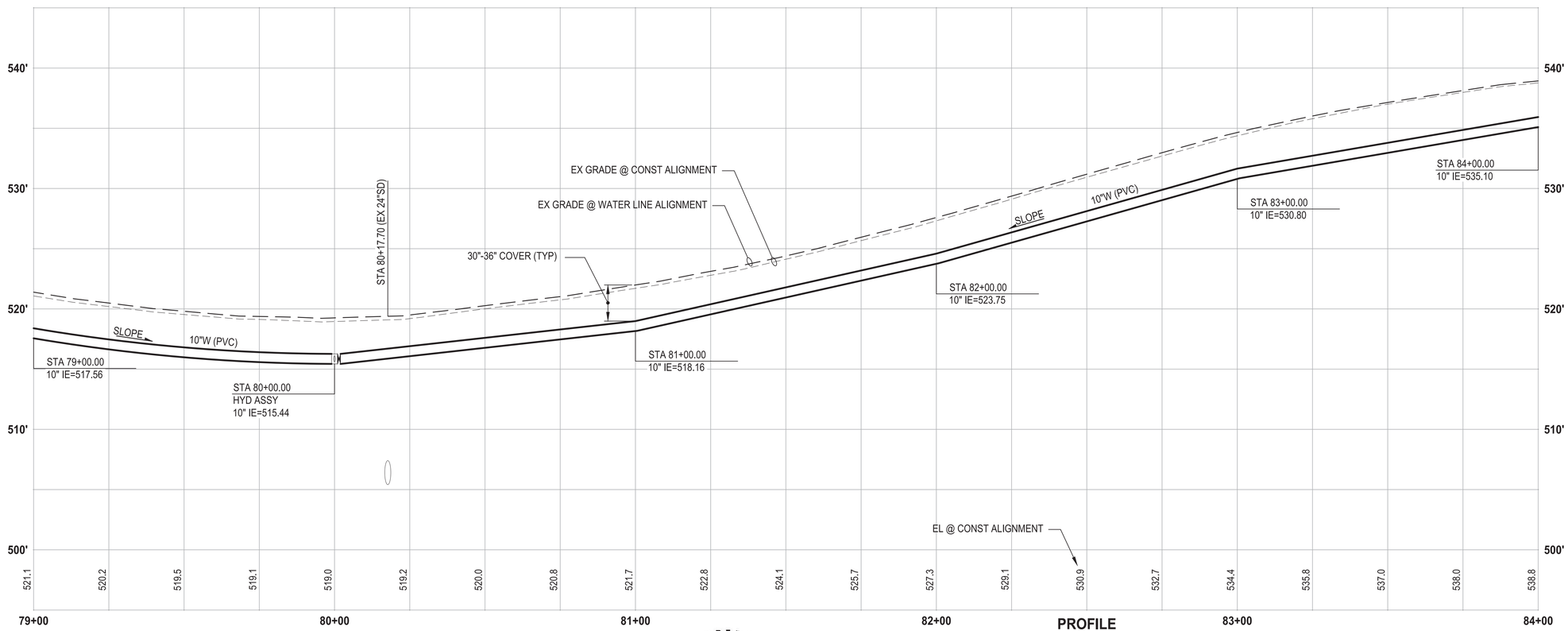

PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
17. INSTALL HANDHOLE
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
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GENERAL NOTES

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9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W11-15
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 55287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

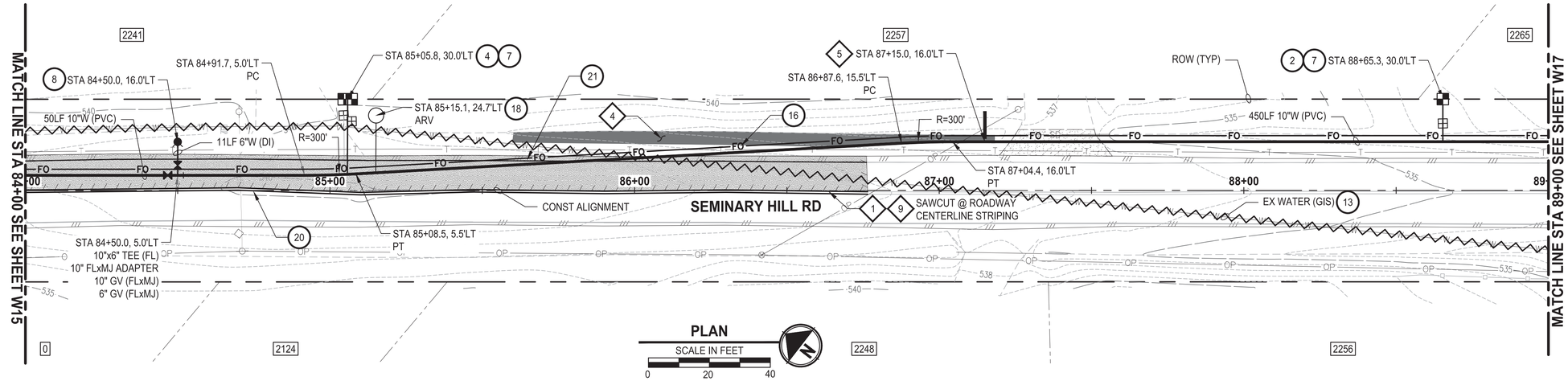
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 79+00 TO 84+00

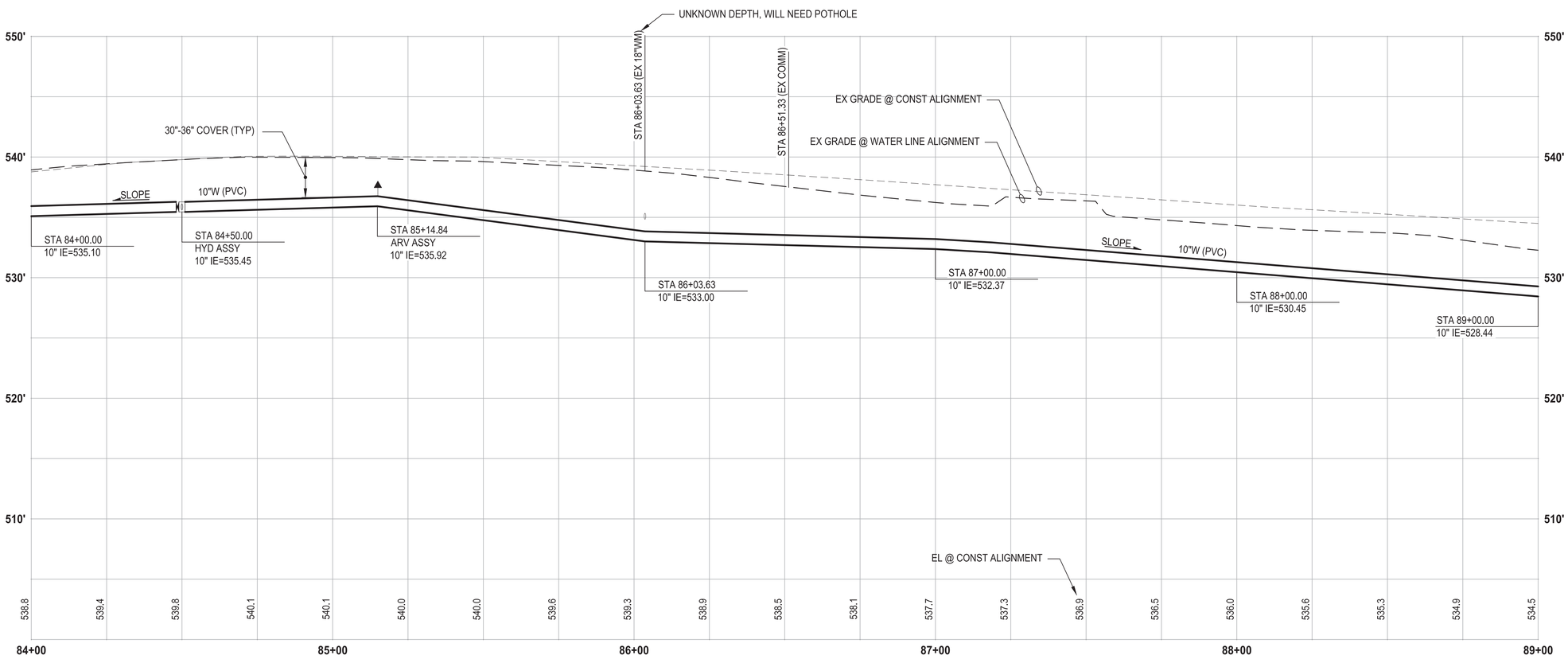
DRAWING NO.
OF 91
W15

LAYOUT: W15 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\995vcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:14:58 PM



PLAN

SCALE IN FEET



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

2. INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
18. INSTALL COMBO AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 2 IN. PER COC STD PLAN NO. 2-13
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
5. PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
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6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W16-20
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 38287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

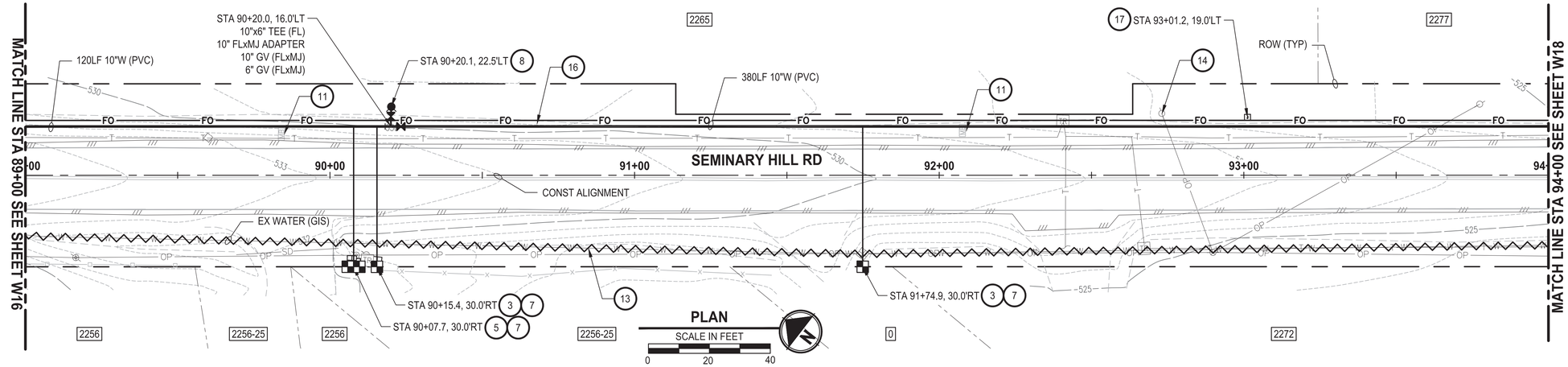
PATTY PAGE, PE
CITY ENGINEER
DATE

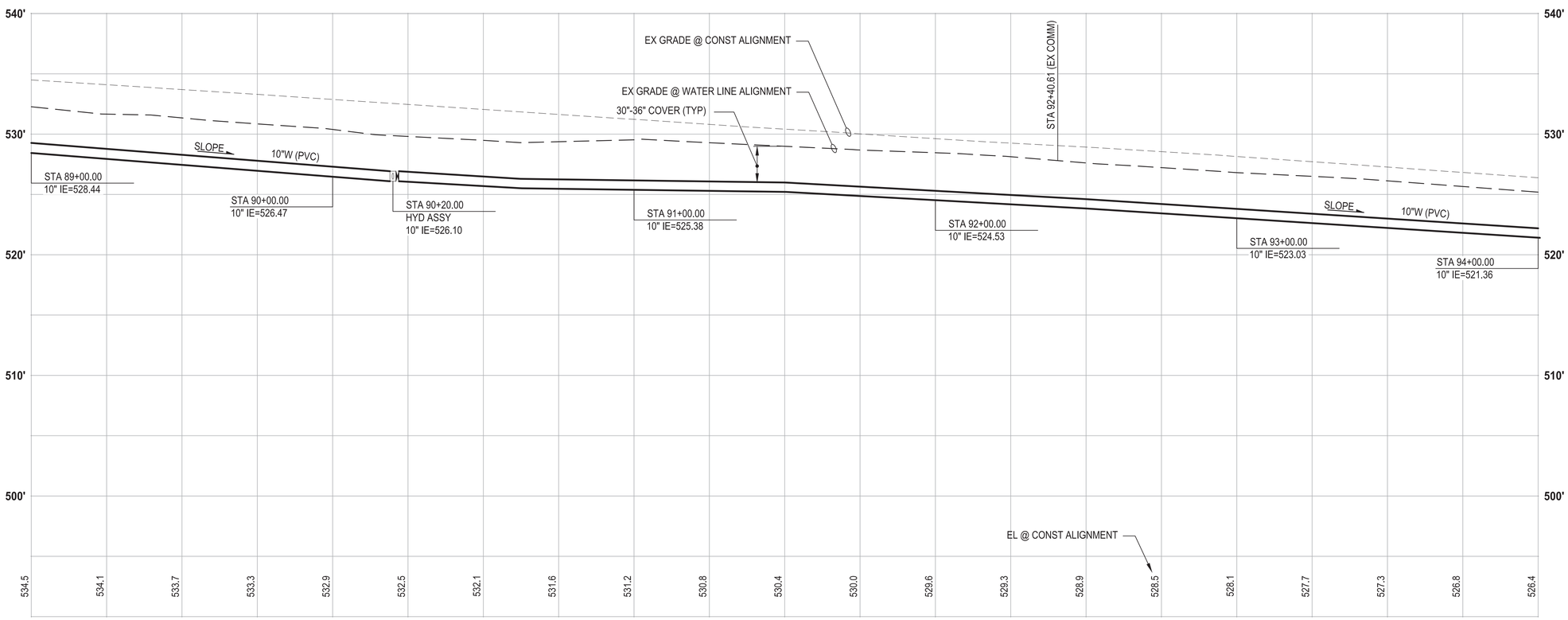
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 84+00 TO 89+00

DRAWING NO.
OF 91
W16

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toylokat DATE: Wednesday, September 3, 2025 3:17:34 PM LAYOUT: W16





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
5. INSTALL ¾" DOUBLE WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-06
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
11. RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
13. ABANDON EXISTING AC WATER MAIN
14. POLE HOLD. COORDINATE W/ POWER CO.
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
17. INSTALL HANDHOLE

TESC NOTES

2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W16-20
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
56287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

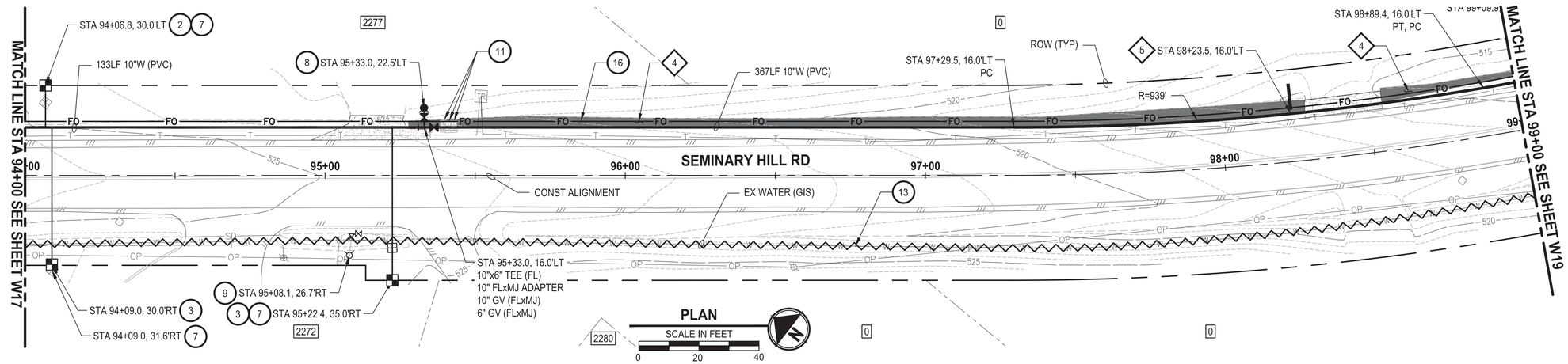
PATTY PAGE, PE
CITY ENGINEER
DATE

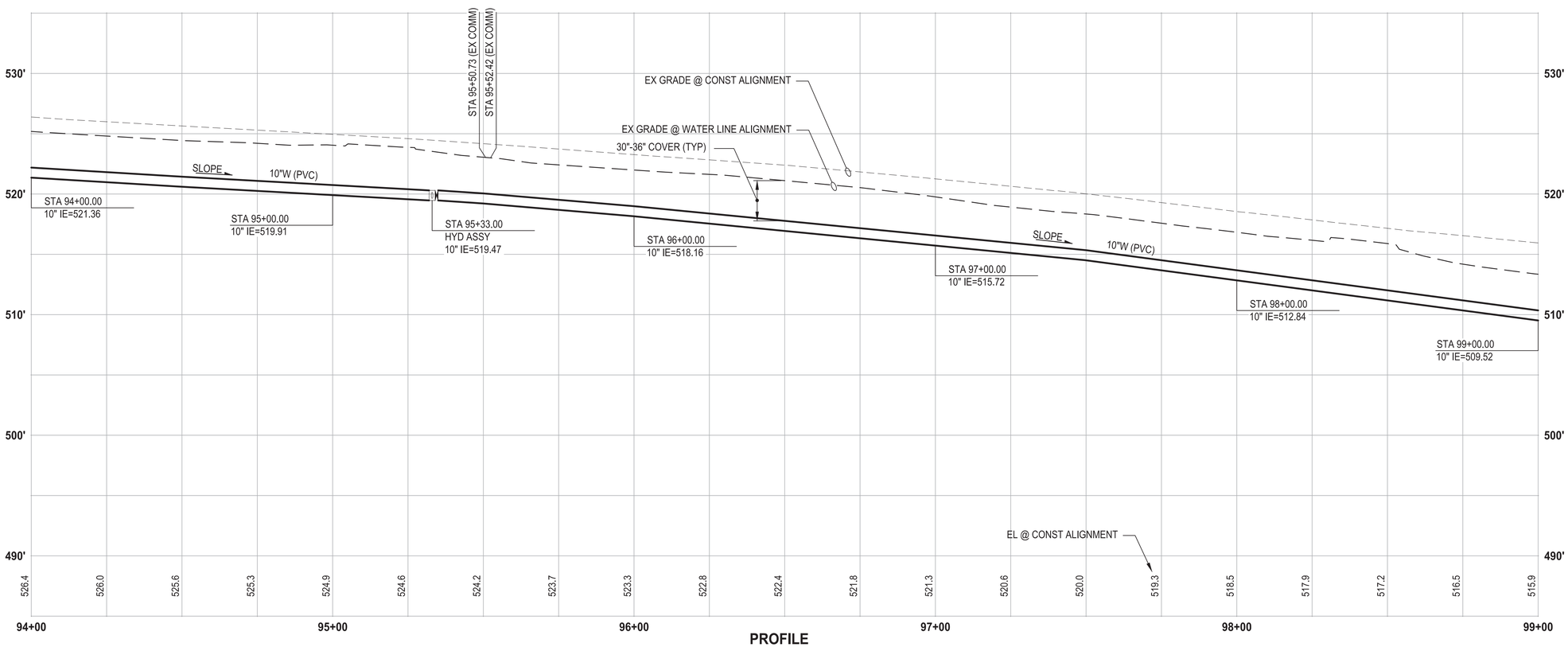
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 89+00 TO 94+00

DRAWING NO.
OF 91
W17

LAYOUT: W17 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\995ves\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:18:04 PM





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

2. INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
9. REMOVE EXISTING HYDRANT
11. RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.

TESC NOTES

4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
5. PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W16-20
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
56287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

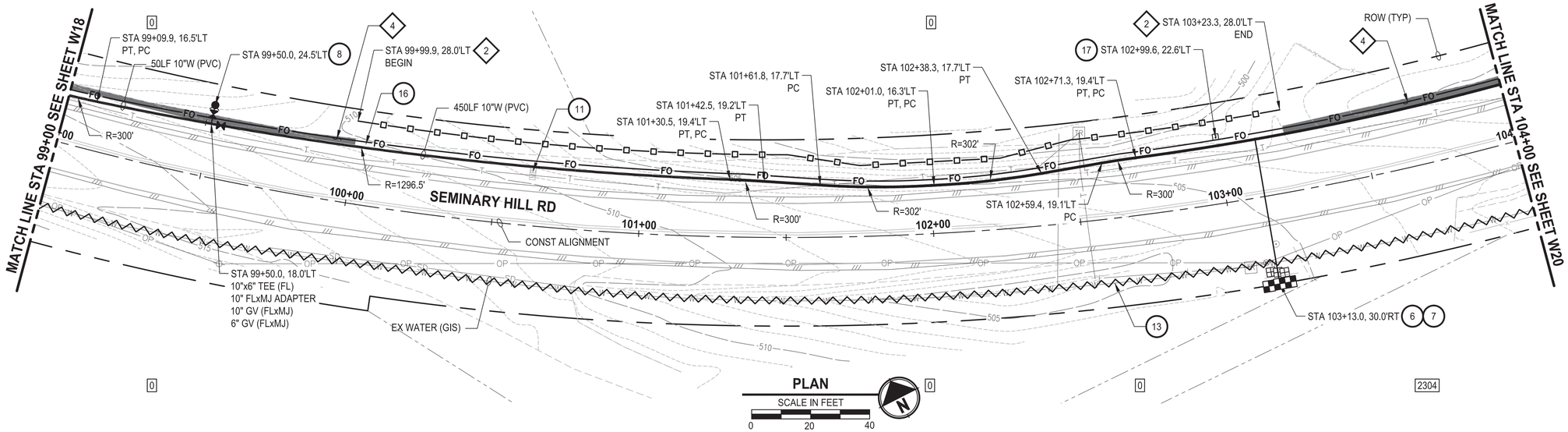
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 94+00 TO 99+00

DRAWING NO.
OF 91
W18

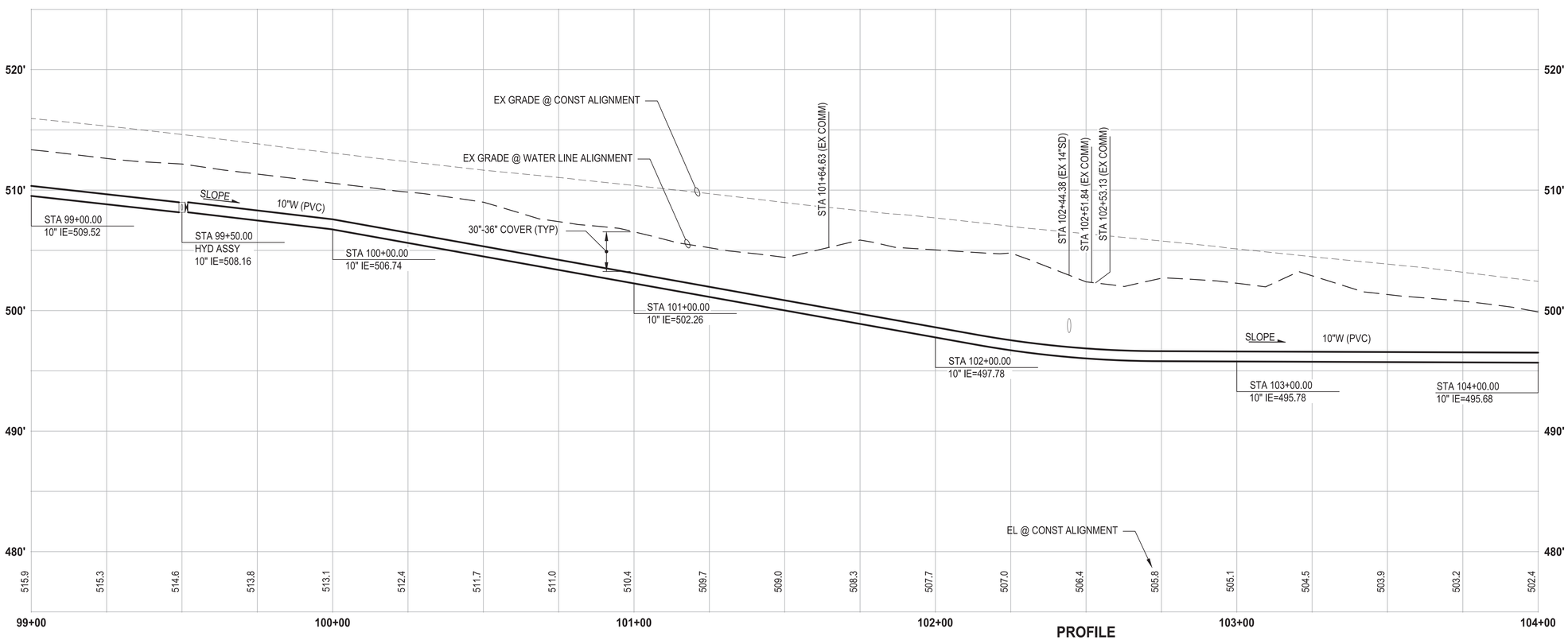
PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:18:35 PM
LAYOUT: W18



PLAN

SCALE IN FEET

0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

6. INSTALL ¾" TRIPLE WATER LONG SIDE SERVICE (TRENCHLESS). SEE DET X/X
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
11. RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.
17. INSTALL HANDHOLE

TESC NOTES

2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STA PLAN I-30.17-01.
4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W16-20
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 36287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

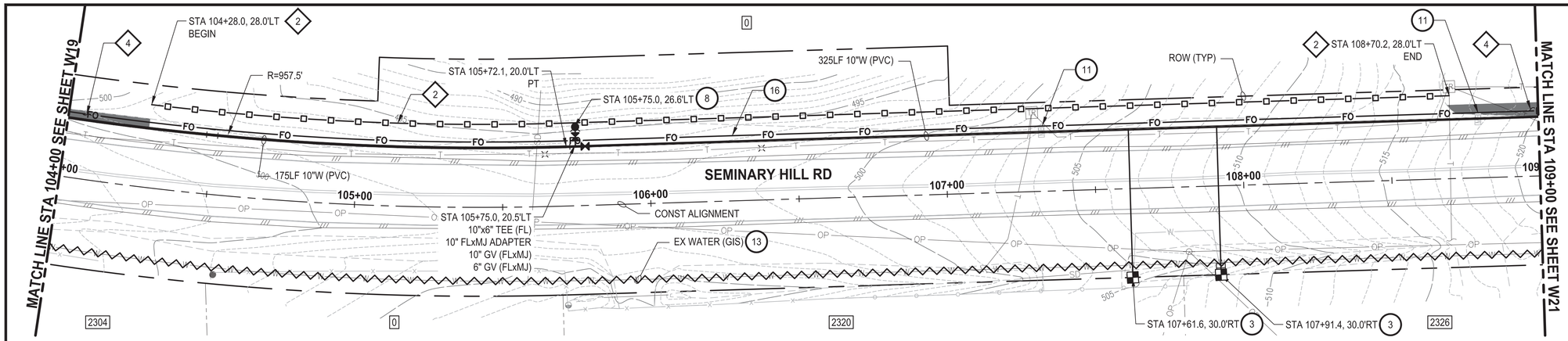
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE STA 99+00 TO 104+00

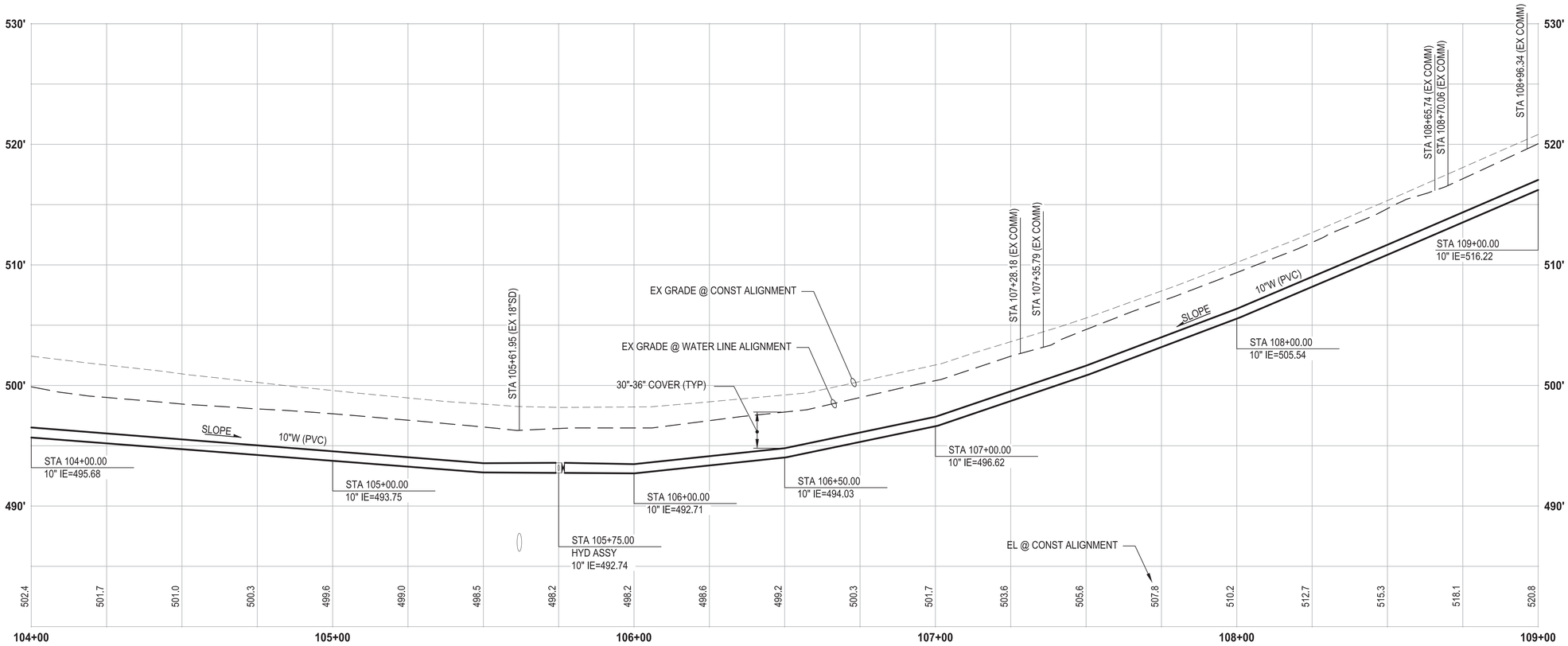
DRAWING NO. ##### OF 91
W19

LAYOUT: W19 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toylokat DATE: Wednesday, September 3, 2025 3:19:03 PM



PLAN

SCALE IN FEET 0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
11. RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
13. ABANDON EXISTING AC WATER MAIN
16. INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.

TESC NOTES

2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W16-20
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 50287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

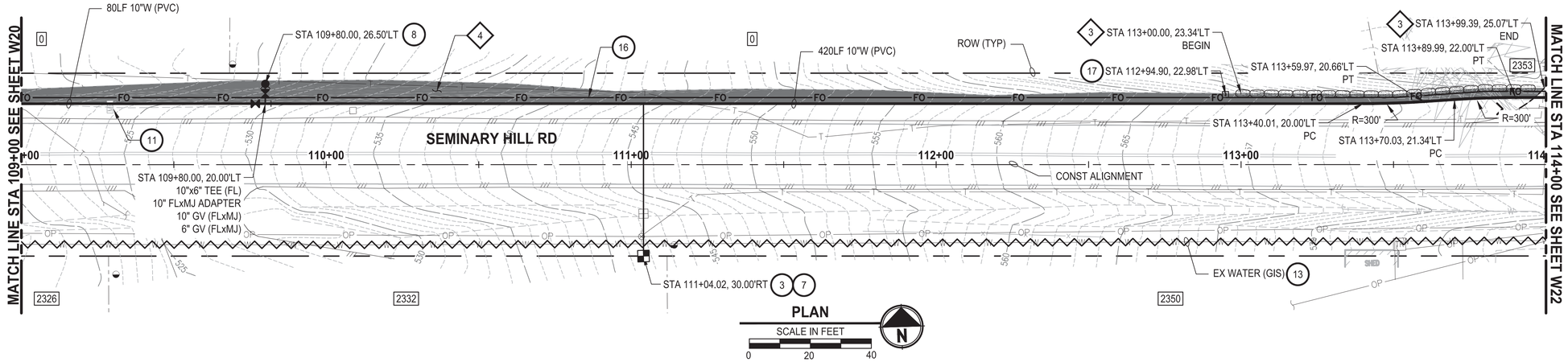
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 104+00 TO 109+00

DRAWING NO. ##### OF 91
W20

LAYOUT: W20 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDwg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:19:32 PM



PLAN

SCALE IN FEET
0 20 40

CONSTRUCTION NOTES

3 INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02

7 CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

11 RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02

13 ABANDON EXISTING AC WATER MAIN

16 INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.

17 INSTALL HANDHOLE

TESC NOTES

3 PROVIDE TEMPORARY DIVERSION ON UPSLOPE SIDE OF TRENCH. PROVIDE SANDBAGS, TEMPORARY SILT DIKES, OR OTHER METHODS DOCUMENTED IN THE CONTRACTOR-PREPARED SWPPPP.

4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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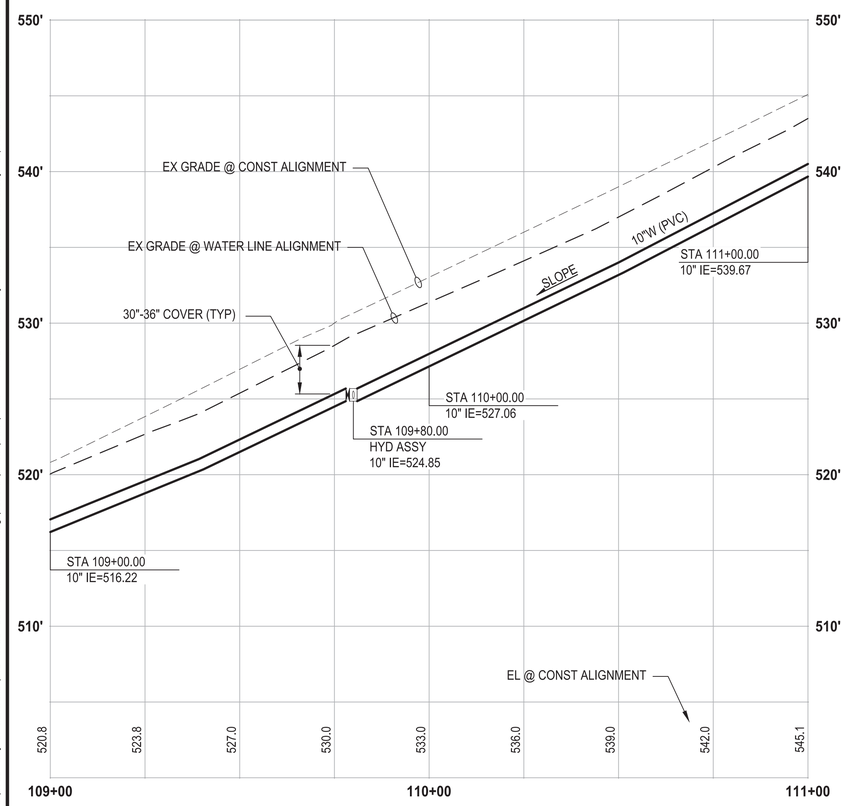
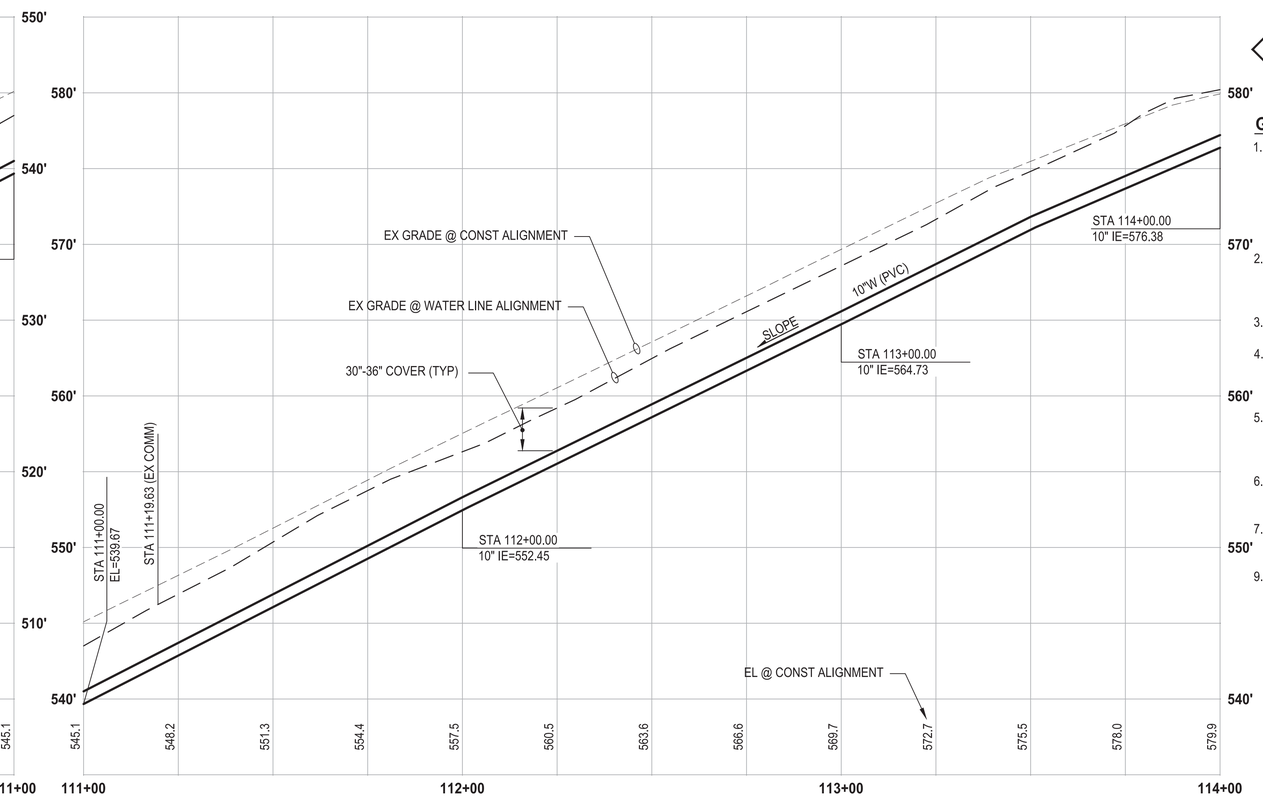
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W21-25
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 36287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

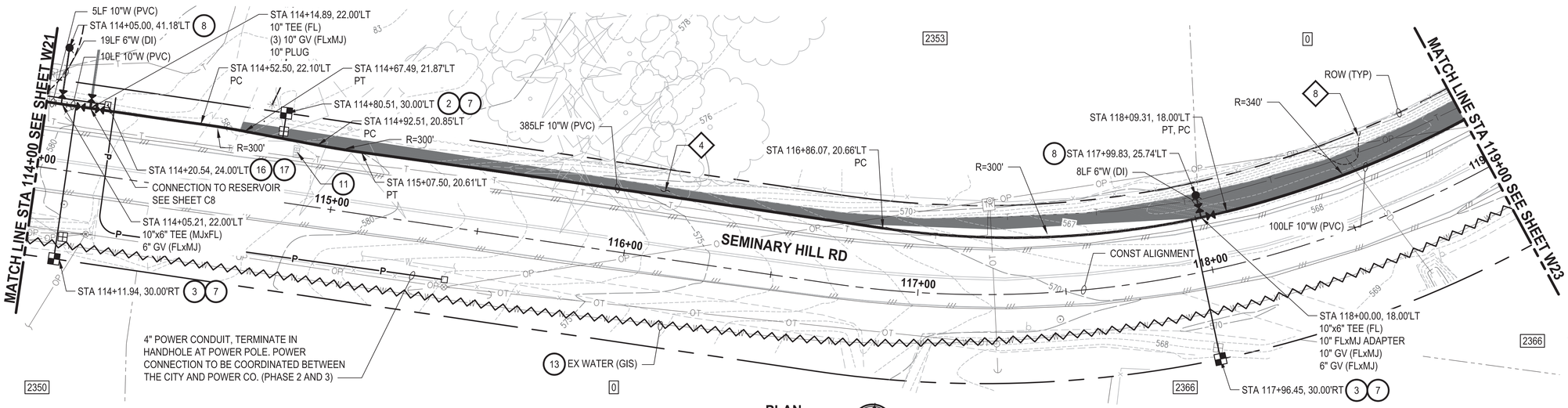
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 109+00 TO 114+00

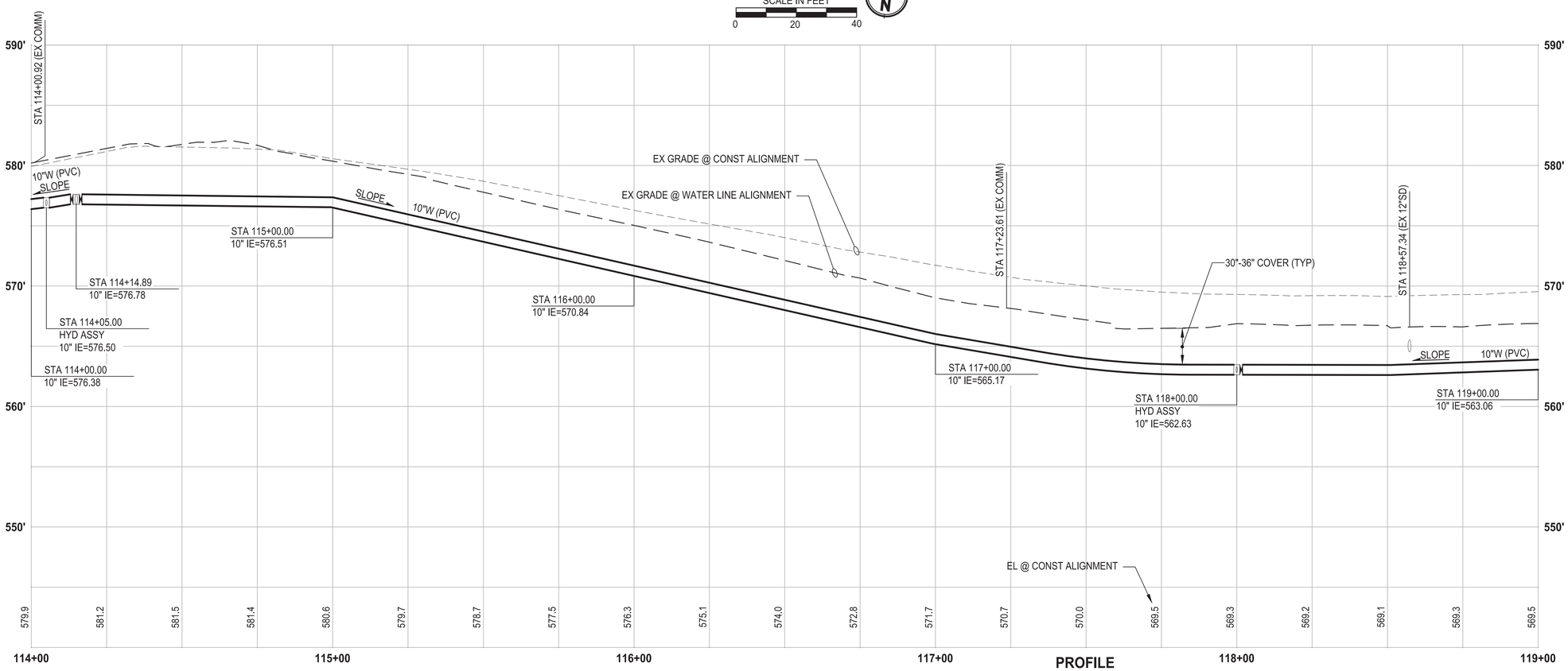
DRAWING NO.
OF 91
W21

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill Prelim\bsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:23:02 PM
LAYOUT: W21



PLAN

SCALE IN FEET
0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

(2) INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02

(3) INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02

(7) CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.

(8) INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

(11) RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02

(13) ABANDON EXISTING AC WATER MAIN

(16) INSTALL 2" CONDUIT (FIBER OPTIC) IN TRENCH WITH 10" WATER PIPELINE.

(18) INSTALL HANDHOLE

TESC NOTES

◇4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

◇8 PROVIDE EROSION CONTROL AT CULVERT ENDS IN ACCORDANCE WITH WSDOT STD PLANS I-30.10-02, I-30.10-02, AND I-80.10-02.

◇10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

▷	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W21-25
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
50287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

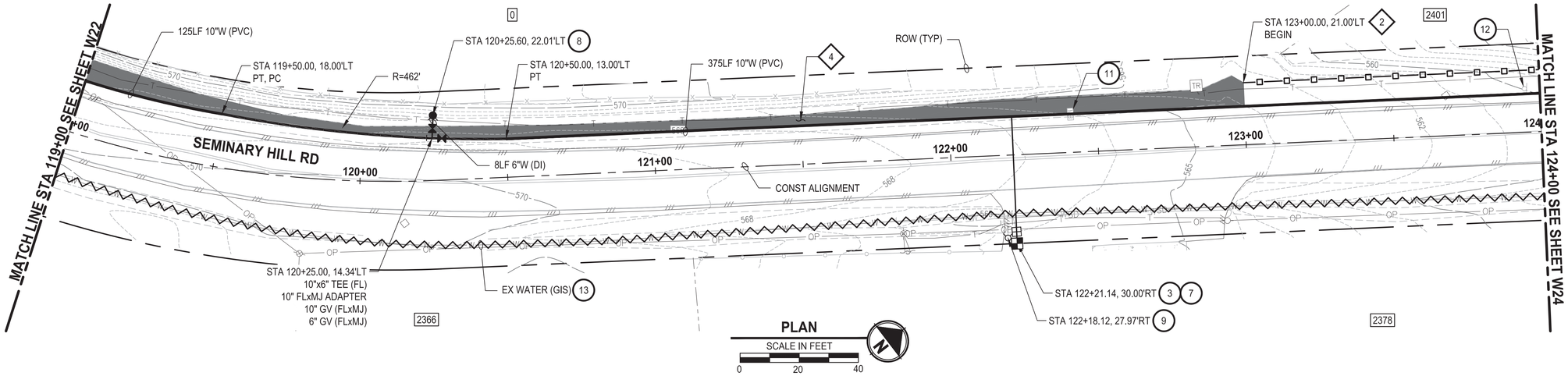
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE STA 114+00 TO 119+00

DRAWING NO.
OF 91
W22

LAYOUT: W22 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 10:39:54 AM



PLAN

SCALE IN FEET
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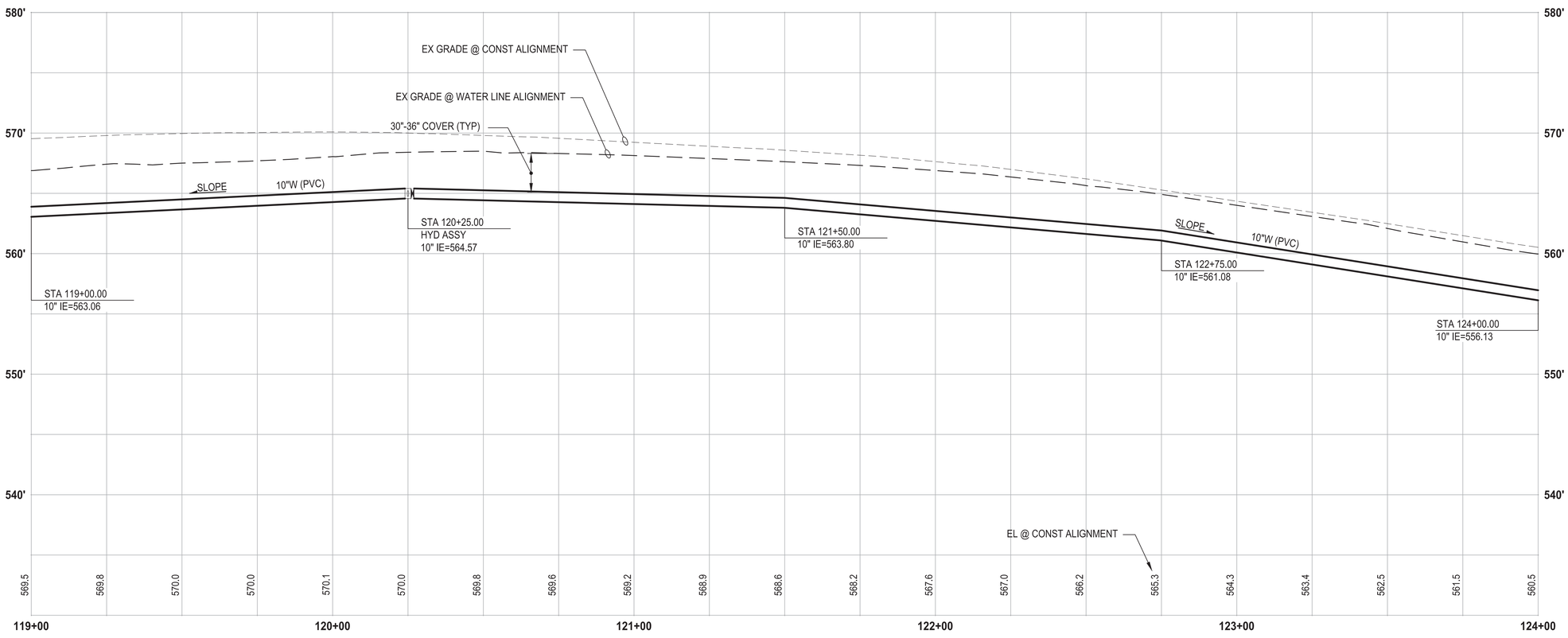


PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

(3) INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02

(7) CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.

(8) INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

(9) REMOVE EXISTING HYDRANT

(11) RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02

(12) RESET SIGN

(13) ABANDON EXISTING AC WATER MAIN

TESC NOTES

(2) PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.

(4) PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

(10) PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

▷	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W21-25
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 38287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

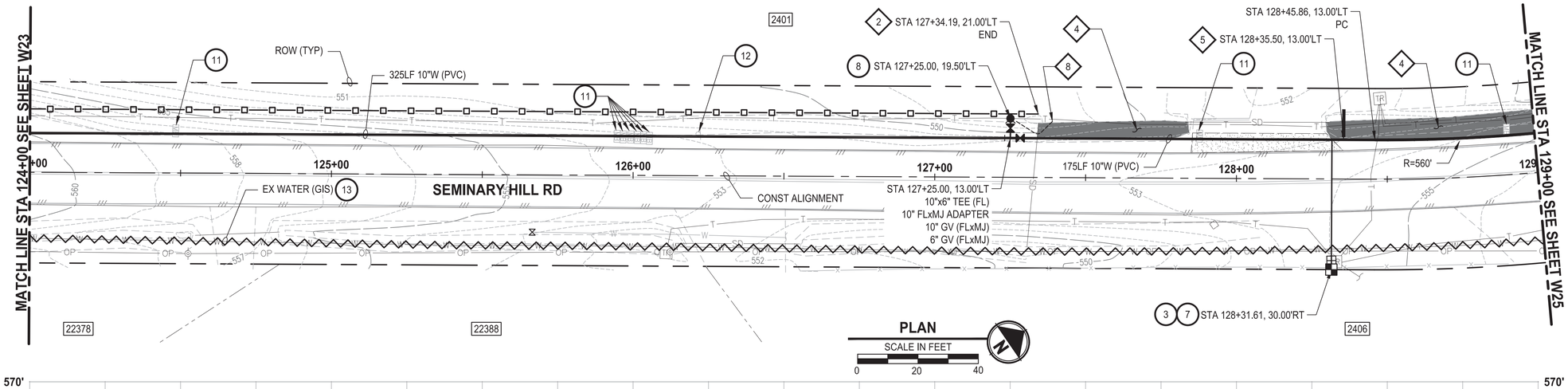
PATTY PAGE, PE
CITY ENGINEER
DATE

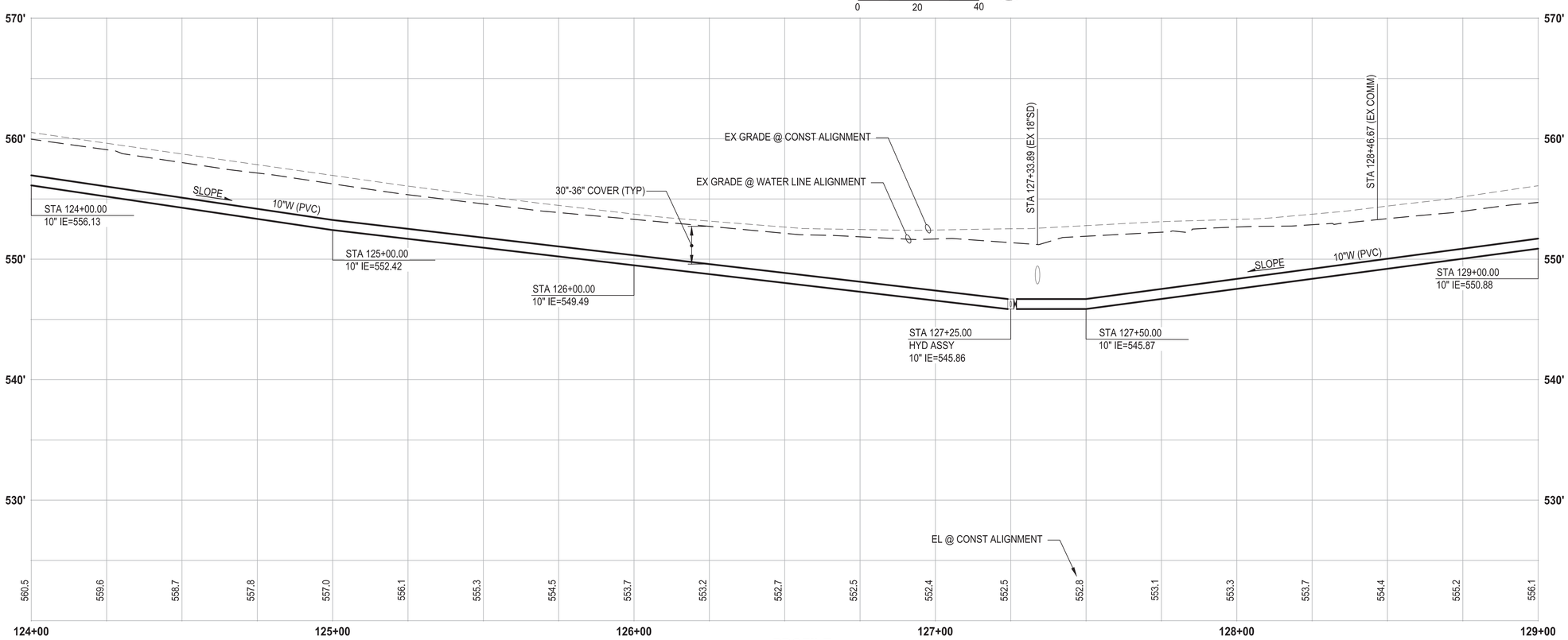
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 119+00 TO 124+00

DRAWING NO.
OF 91
W23

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svce\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:24:36 PM
LAYOUT: W23





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
11. RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
12. RESET SIGN
13. ABANDON EXISTING AC WATER MAIN

TESC NOTES

2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
5. PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
8. PROVIDE EROSION CONTROL AT CULVERT ENDS IN ACCORDANCE WITH WSDOT STD PLANS I-30.10-02, I-30.10-02, AND I-80.10-02.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
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6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W21-25
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG — STATE OF WASHINGTON — 38287 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

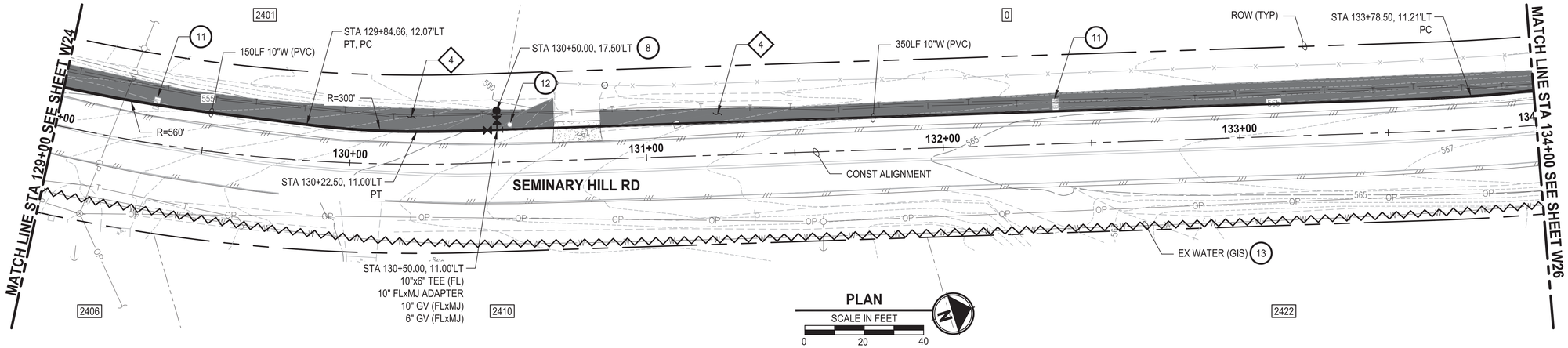
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 124+00 TO 129+00

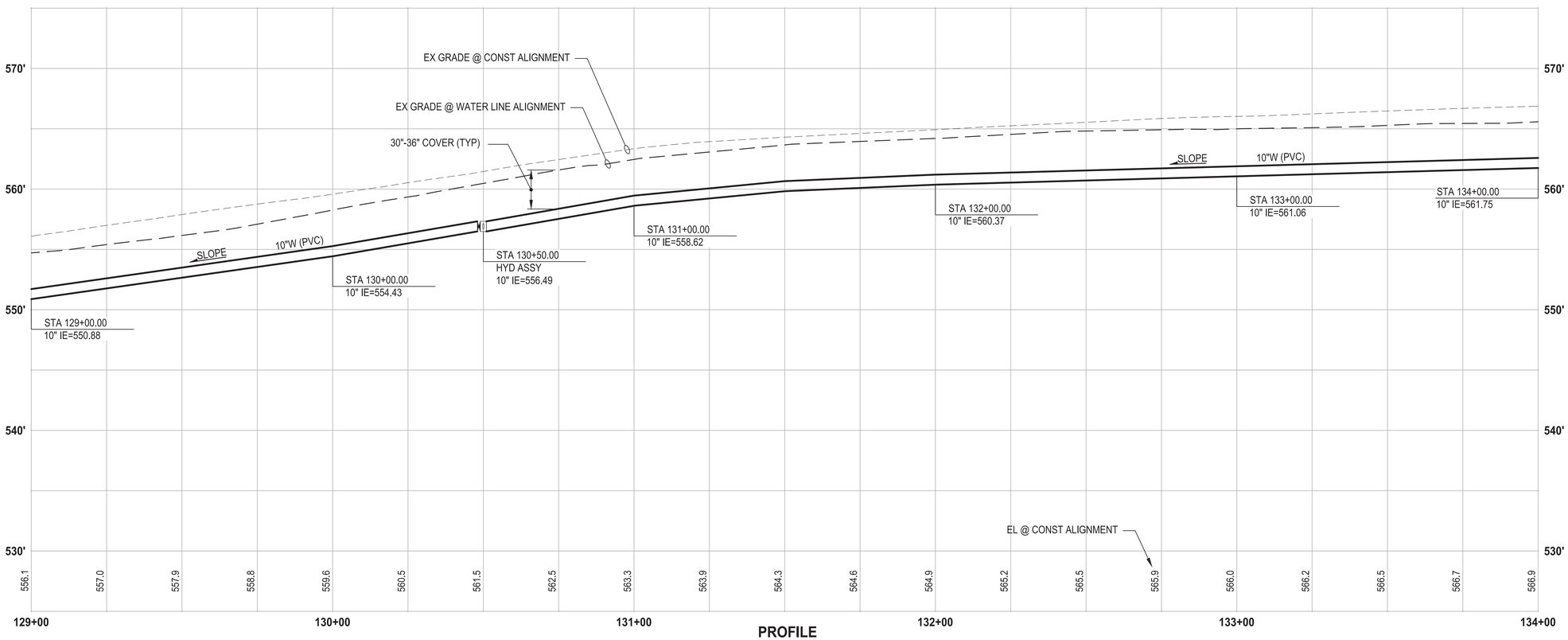
DRAWING NO.
OF 91
W24

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toykokat DATE: Wednesday, September 3, 2025 3:25:24 PM
LAYOUT: W24



PLAN

SCALE IN FEET
0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

11 RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02

12 RESET SIGN

13 ABANDON EXISTING AC WATER MAIN

TESC NOTES

4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W21-25
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
36287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

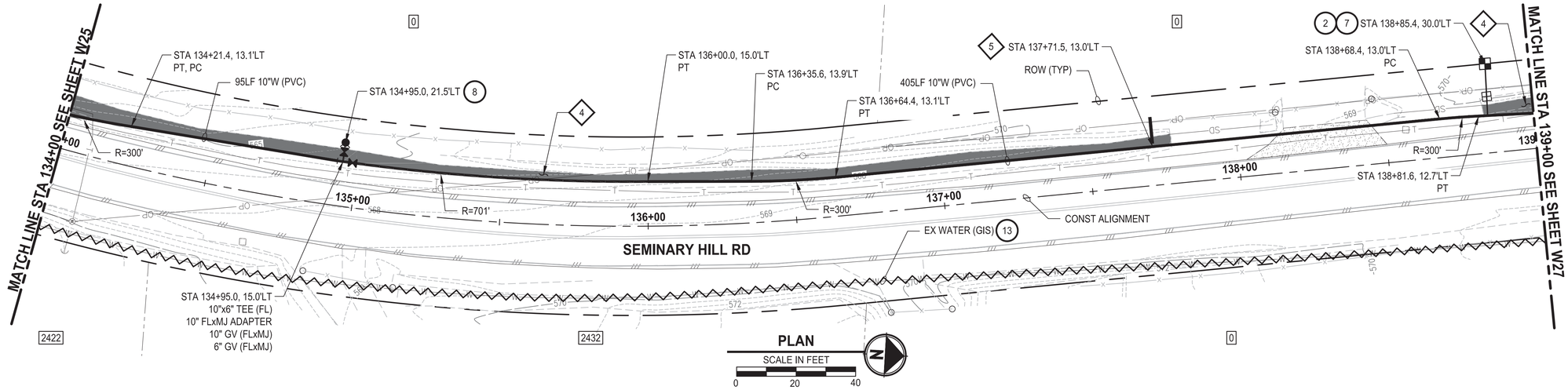
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 129+00 TO 134+00

DRAWING NO.
OF 91
W25

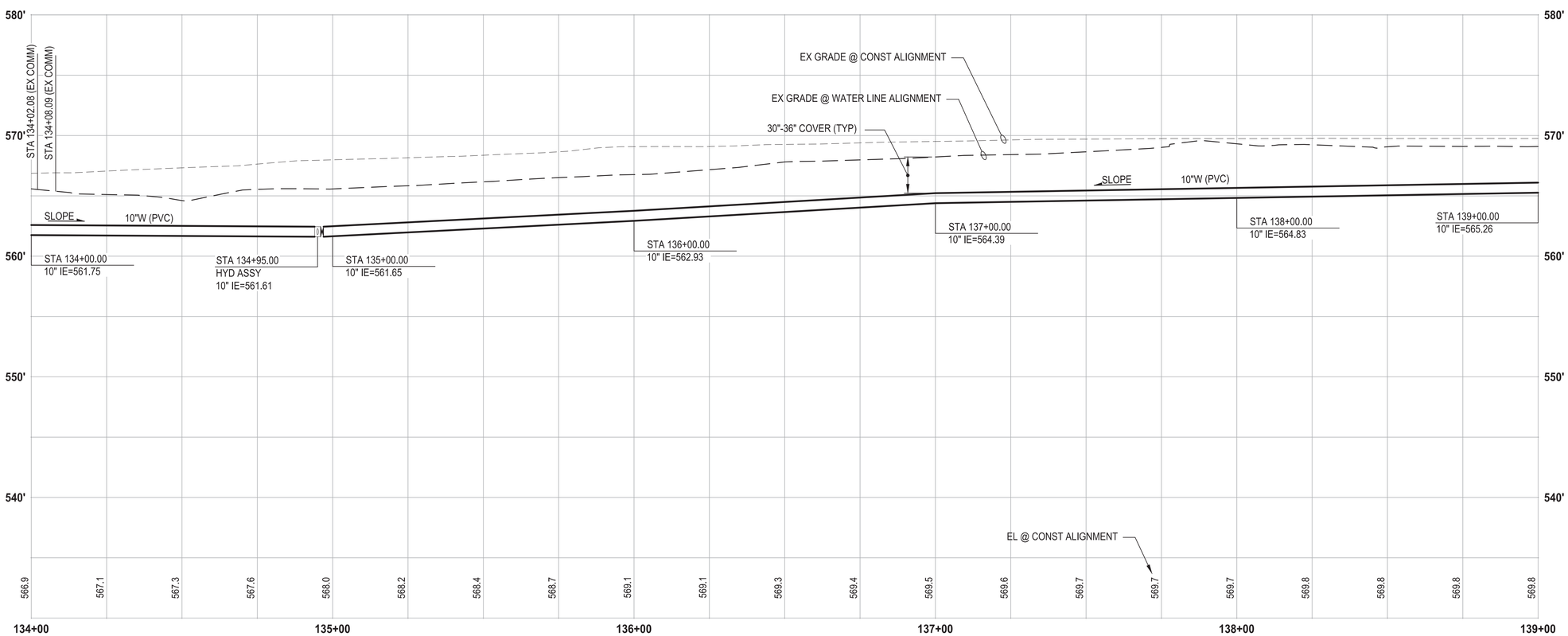
PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:26:09 PM
LAYOUT: W25



PLAN

SCALE IN FEET

0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

2 INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02

7 CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

13 ABANDON EXISTING AC WATER MAIN

TESC NOTES

4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

5 PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W26-29
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 36287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

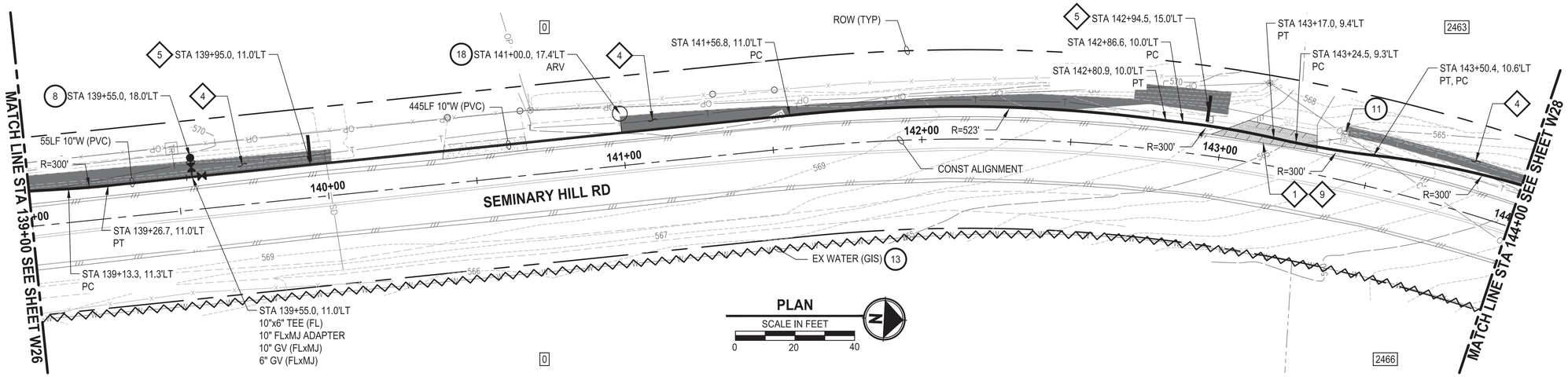
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 134+00 TO 139+00

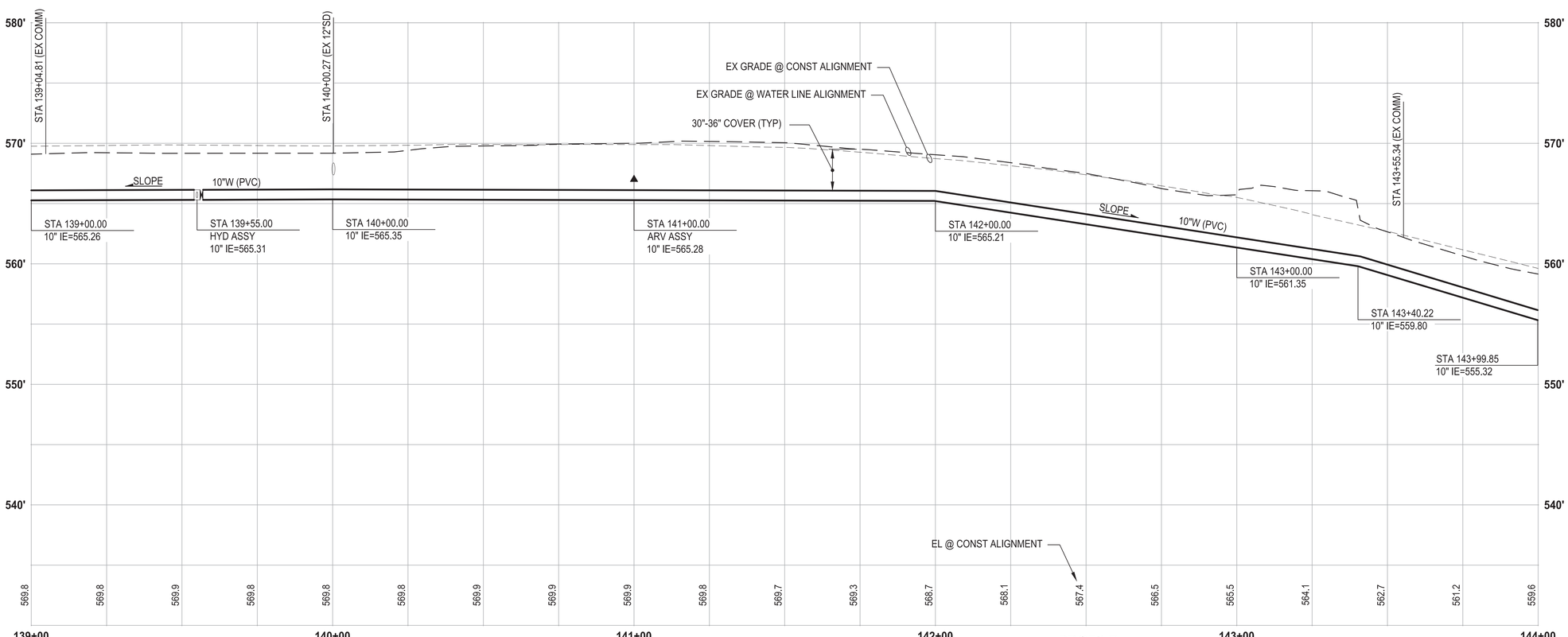
DRAWING NO.
OF 91
W26

LAYOUT: W26 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:29:00 PM



PLAN

SCALE IN FEET 0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

11 RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02

13 ABANDON EXISTING AC WATER MAIN

18 INSTALL COMBO AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 2 IN. PER COC STD PLAN NO. 2-13

TESC NOTES

1 PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.

4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

5 PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

9 DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.

10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R.RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W26-29
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 39287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

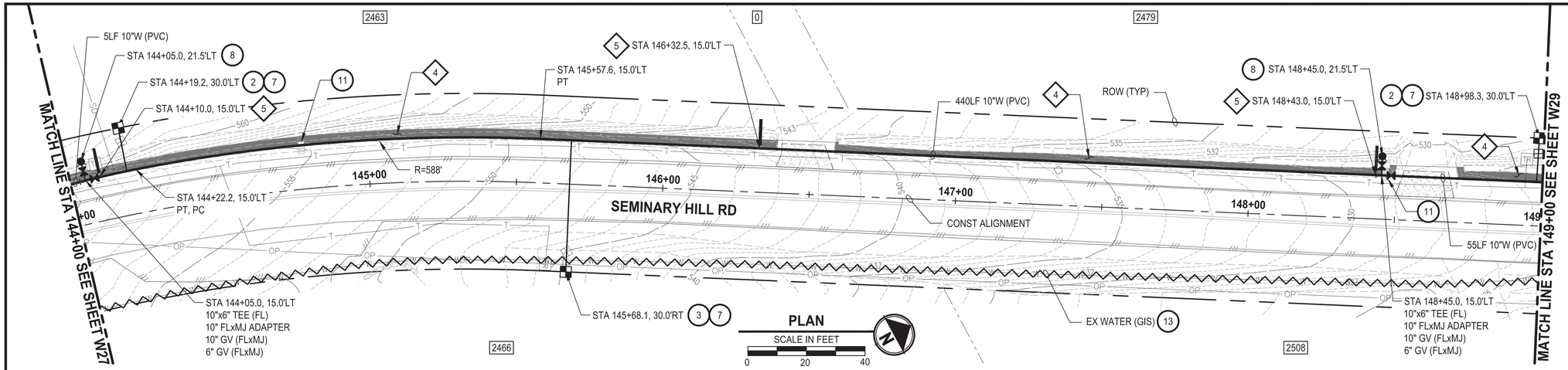
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 139+00 TO 144+00

DRAWING NO.
OF 91
W27

LAYOUT: W27 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:29:28 PM



CONSTRUCTION NOTES

- (2) INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
- (3) INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
- (7) CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
- (8) INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
- (11) RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
- (13) ABANDON EXISTING AC WATER MAIN

TESC NOTES

- (4) PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
- (5) PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
- (10) PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

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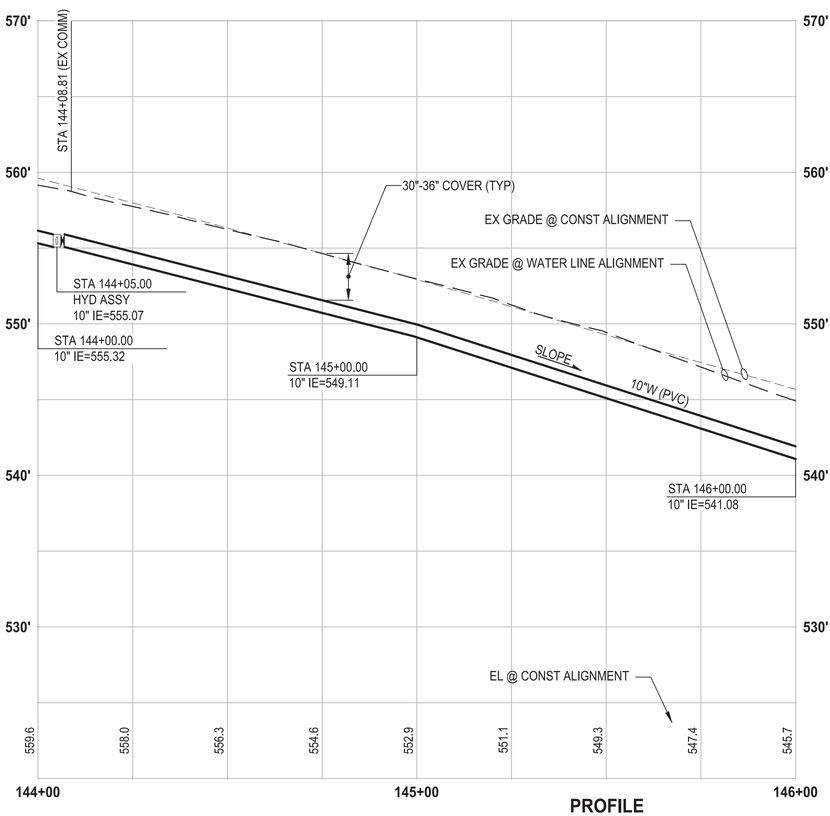
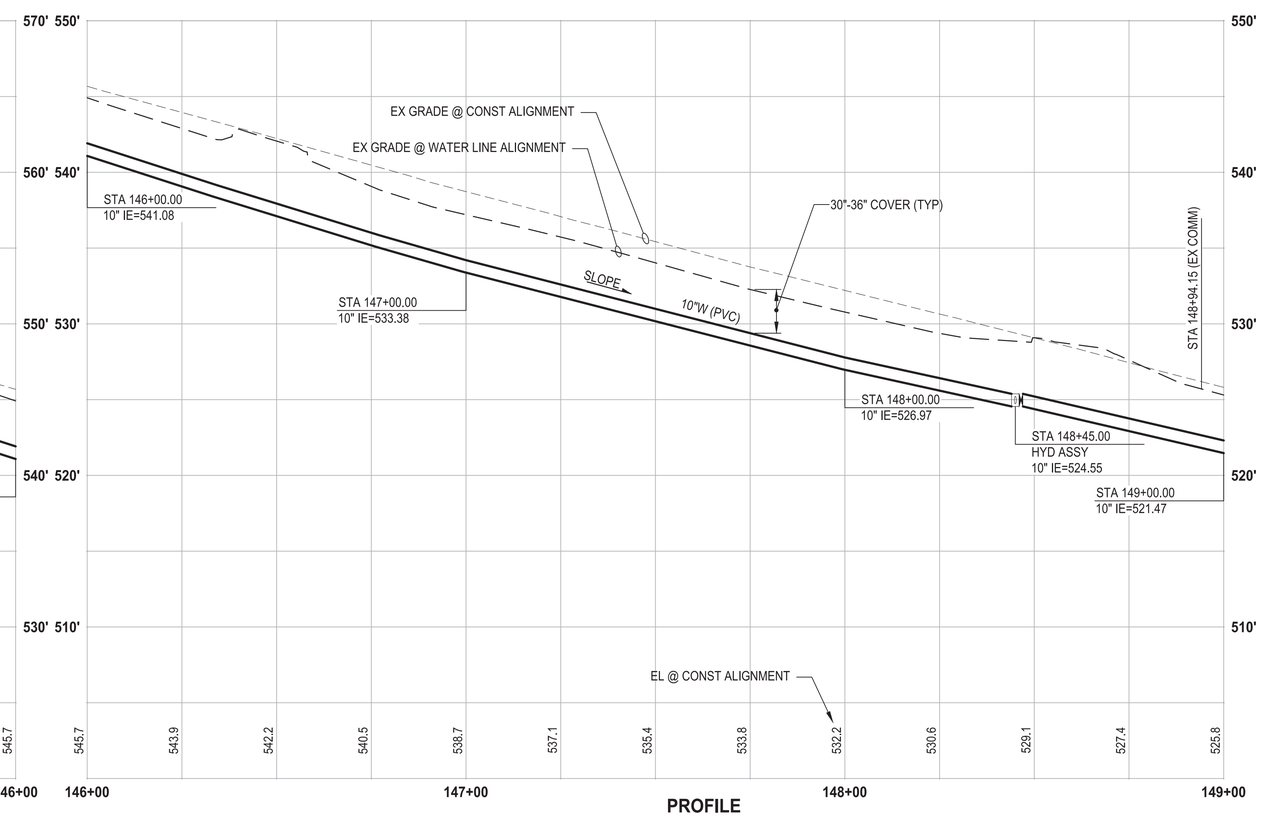
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W26-29
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 38287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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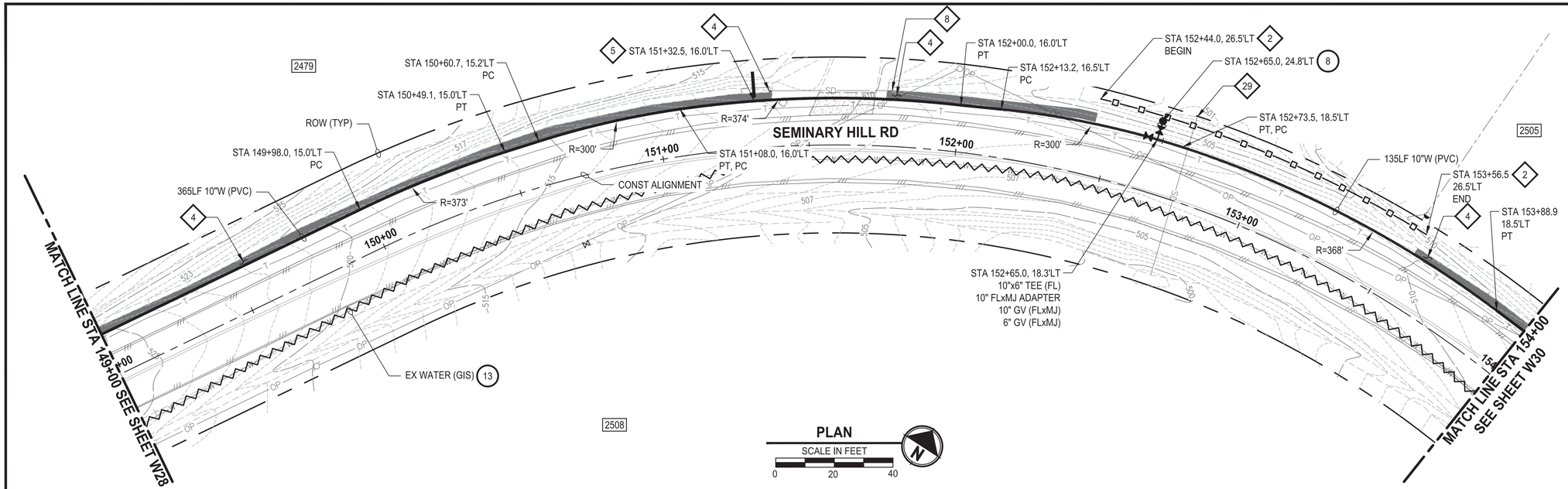
PATTY PAGE, PE
CITY ENGINEER
DATE

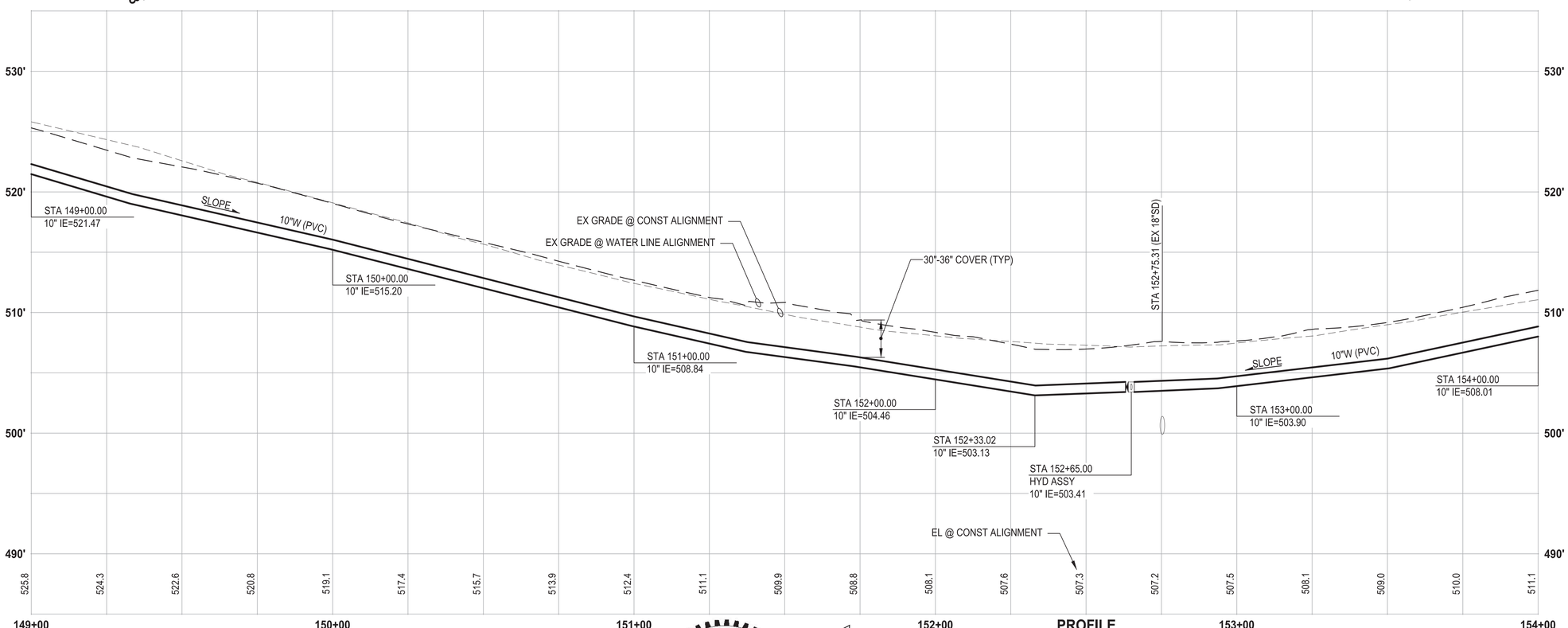
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 144+00 TO 149+00

DRAWING NO.
OF 91
W28

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toykokt DATE: Wednesday, September 3, 2025 3:29:59 PM LAYOUT: W28





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

13 ABANDON EXISTING AC WATER MAIN

TESC NOTES

2 PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.

4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

5 PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W26-29
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 39287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

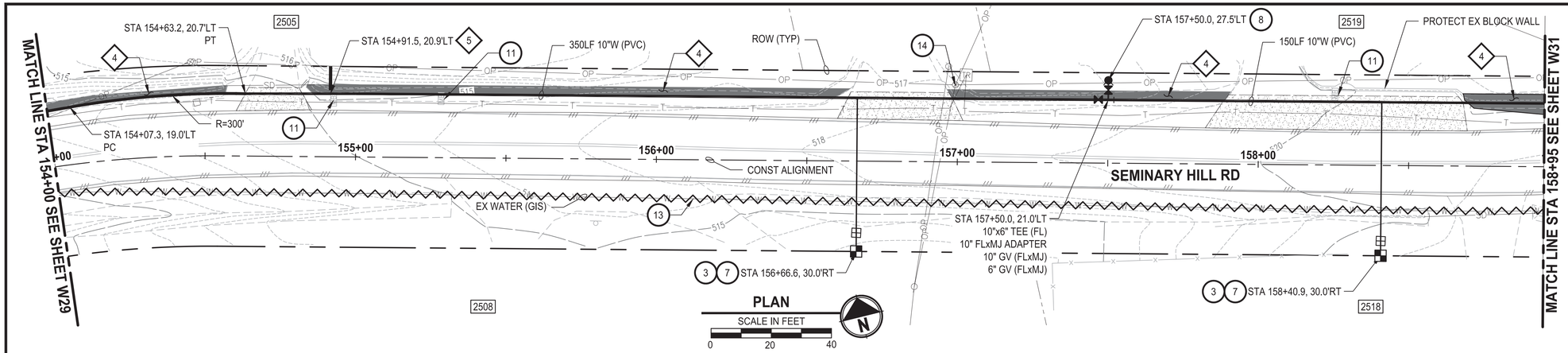
PATTY PAGE, PE
CITY ENGINEER
DATE

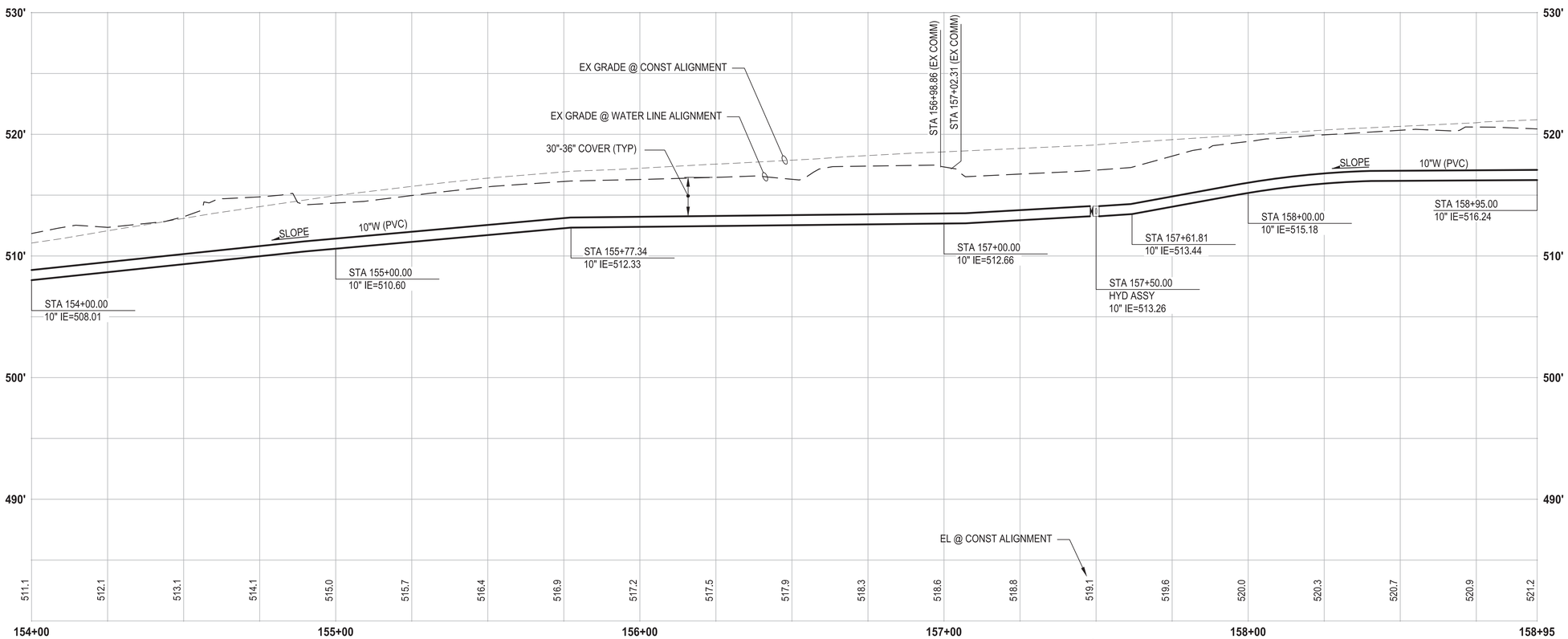
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 149+00 TO 154+00

DRAWING NO.
OF 91
W29

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:30:31 PM
LAYOUT: W29





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

(3) INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02

(7) CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.

(8) INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

(11) RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02

(13) ABANDON EXISTING AC WATER MAIN

(14) POLE HOLD. COORDINATE W/ POWER CO.

TESC NOTES

◇4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

◇5 PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

◇10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W30-34
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG — STATE OF WASHINGTON — 38287 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

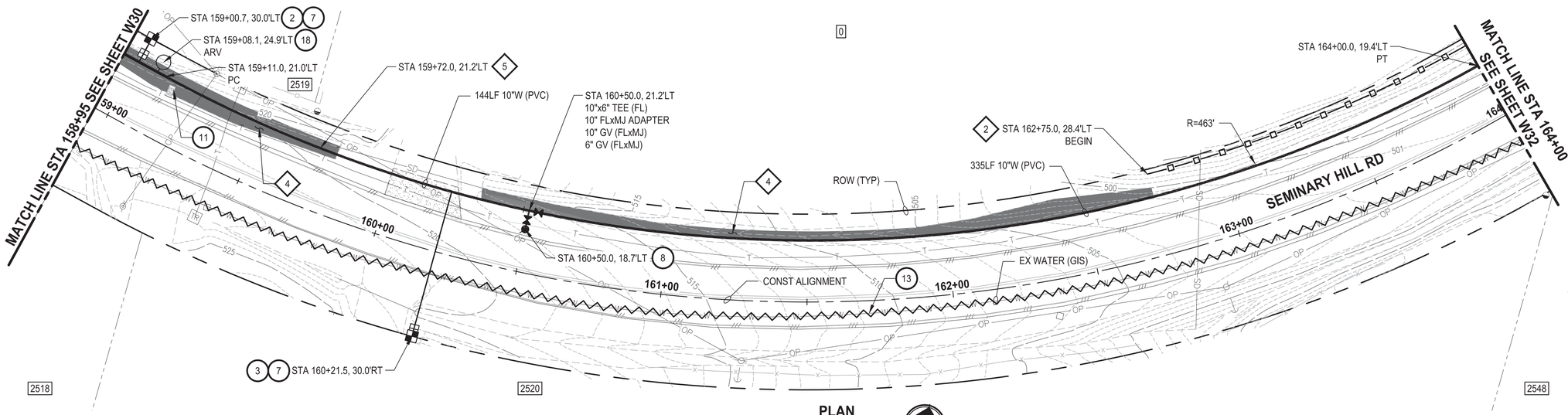
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 154+00 TO 159+00

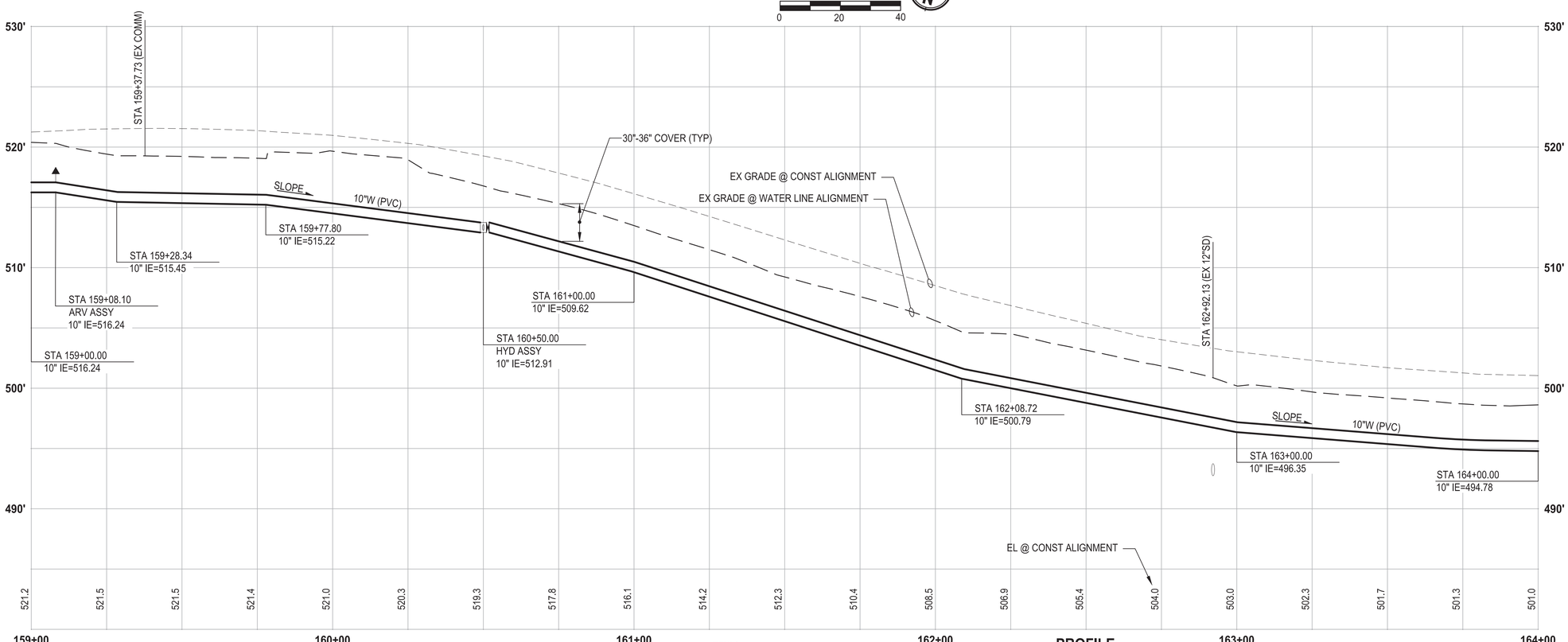
DRAWING NO.
OF 91
W30

LAYOUT: W30 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toylokot DATE: Wednesday, September 3, 2025 3:33:05 PM



PLAN

SCALE IN FEET 0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

2. INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD.PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
11. RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
13. ABANDON EXISTING AC WATER MAIN
18. INSTALL COMBO AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 2 IN. PER COC STD PLAN NO. 2-13

TESC NOTES

2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
5. PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W30-34
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 54287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

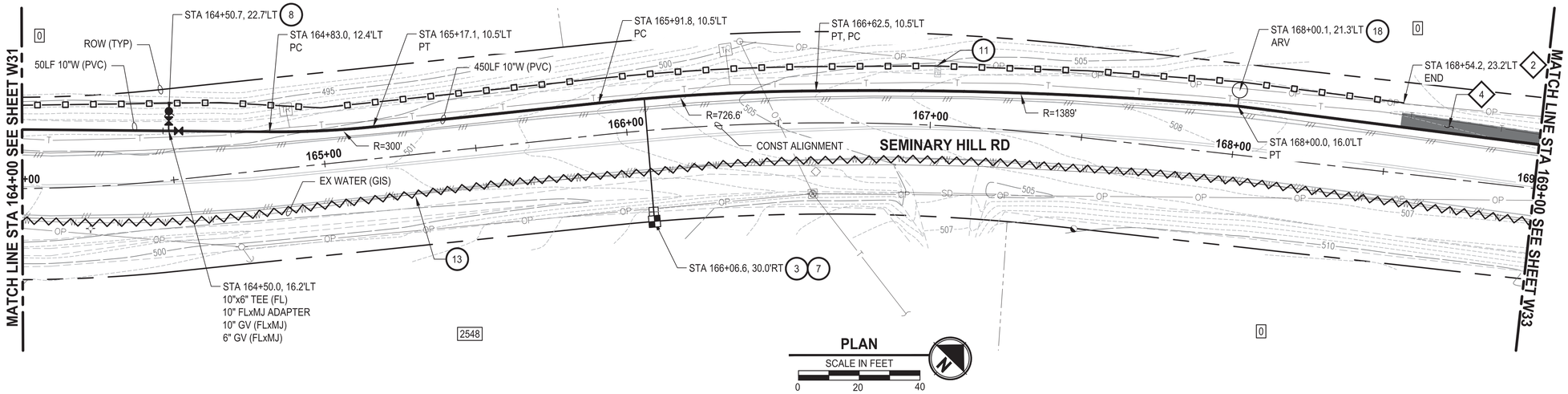
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 159+00 TO 164+00

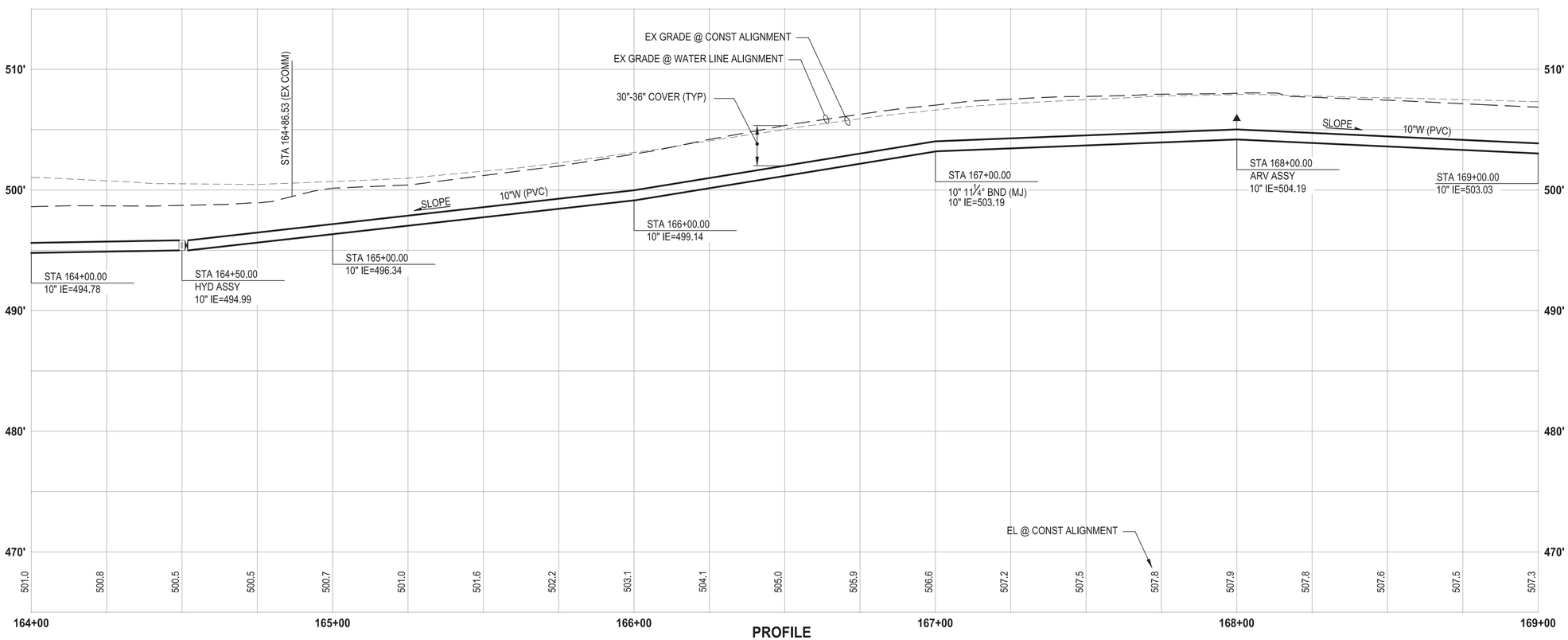
DRAWING NO.
OF 91
W31

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toylokot DATE: Wednesday, September 3, 2025 3:33:38 PM
LAYOUT: W31



PLAN

SCALE IN FEET
0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
11. RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
13. ABANDON EXISTING AC WATER MAIN
18. INSTALL COMBO AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 2 IN. PER COC STD PLAN NO. 2-13

TESC NOTES

2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W30-34
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
50287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

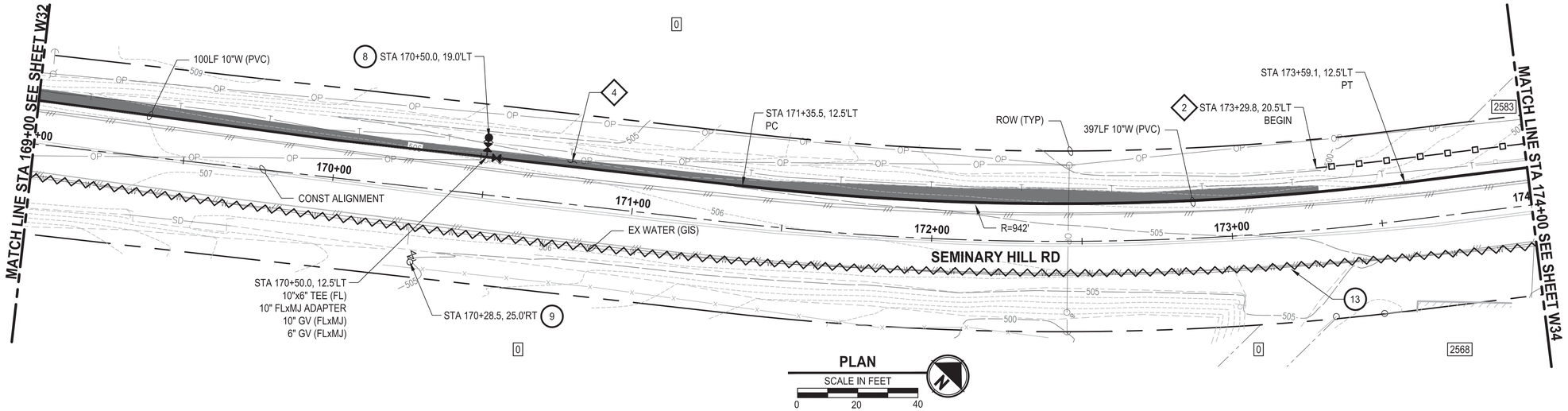
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE STA 164+00 TO 169+00

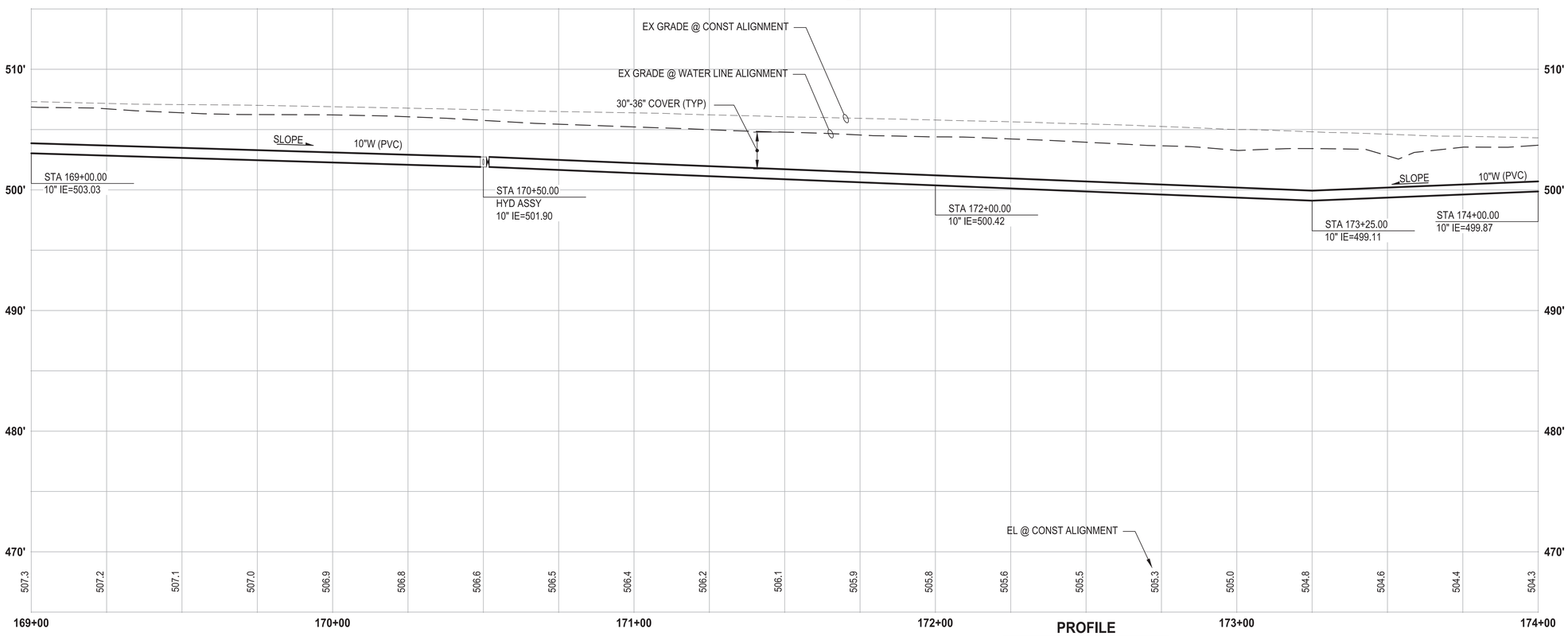
DRAWING NO. ##### OF 91
W32

LAYOUT: W32 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDwg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:34:08 PM



PLAN

SCALE IN FEET
0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

9 REMOVE EXISTING HYDRANT

13 ABANDON EXISTING AC WATER MAIN

TESC NOTES

2 PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.

4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

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9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W30-34
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
36287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

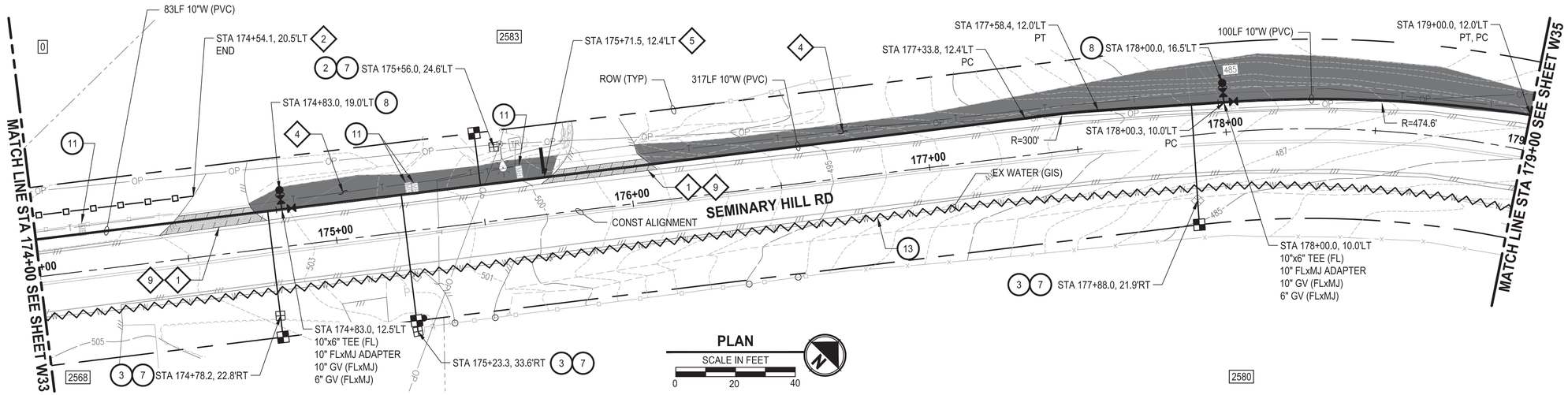
PATTY PAGE, PE
CITY ENGINEER
DATE

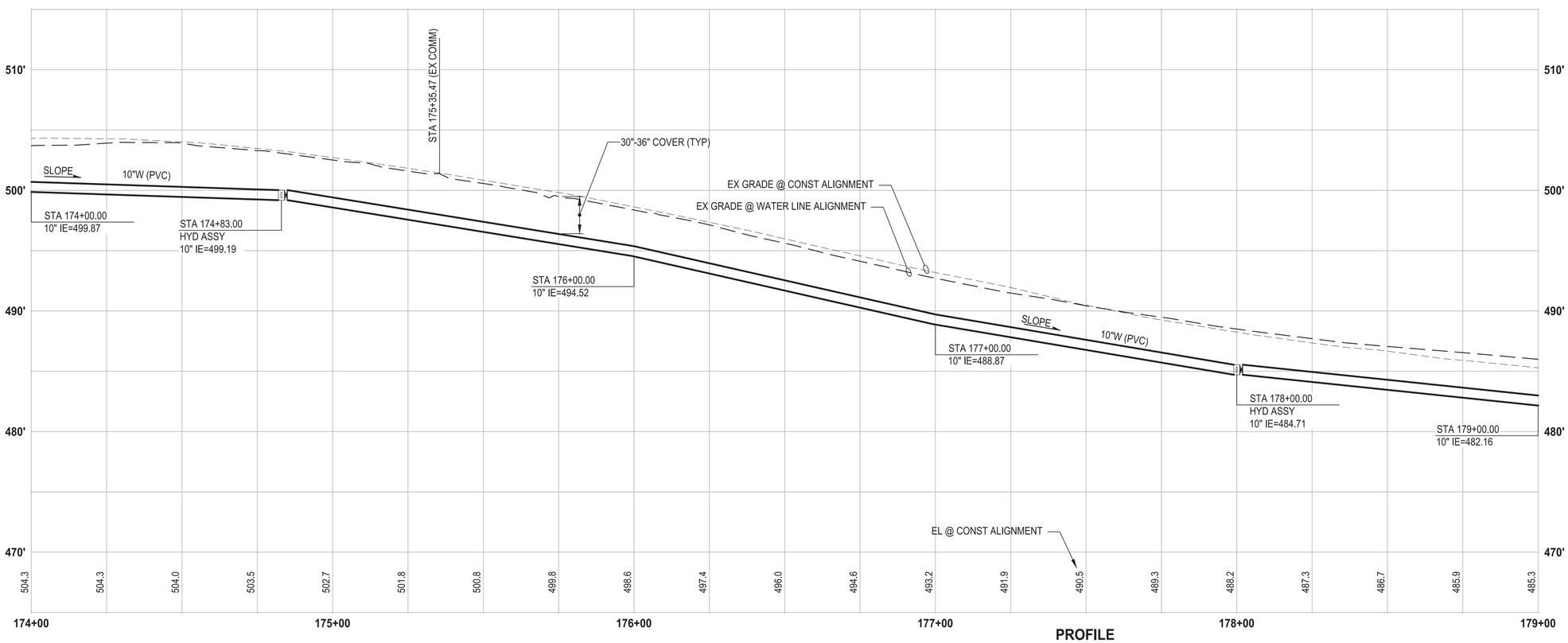
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 169+00 TO 174+00

DRAWING NO. ##### OF 91
W33

LAYOUT: W33 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:34:34 PM





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

- (2) INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
- (3) INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
- (7) CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
- (8) INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
- (11) RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
- (13) ABANDON EXISTING AC WATER MAIN

TESC NOTES

- (1) PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
- (2) PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
- (4) PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
- (5) PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
- (9) DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
- (10) PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W30-34
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 50287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

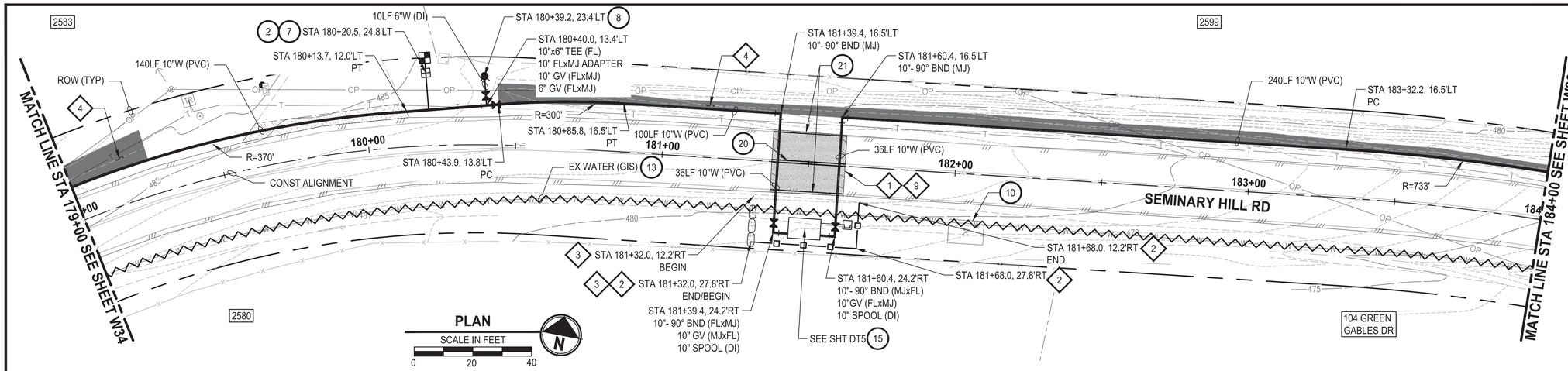
PATTY PAGE, PE
CITY ENGINEER
DATE

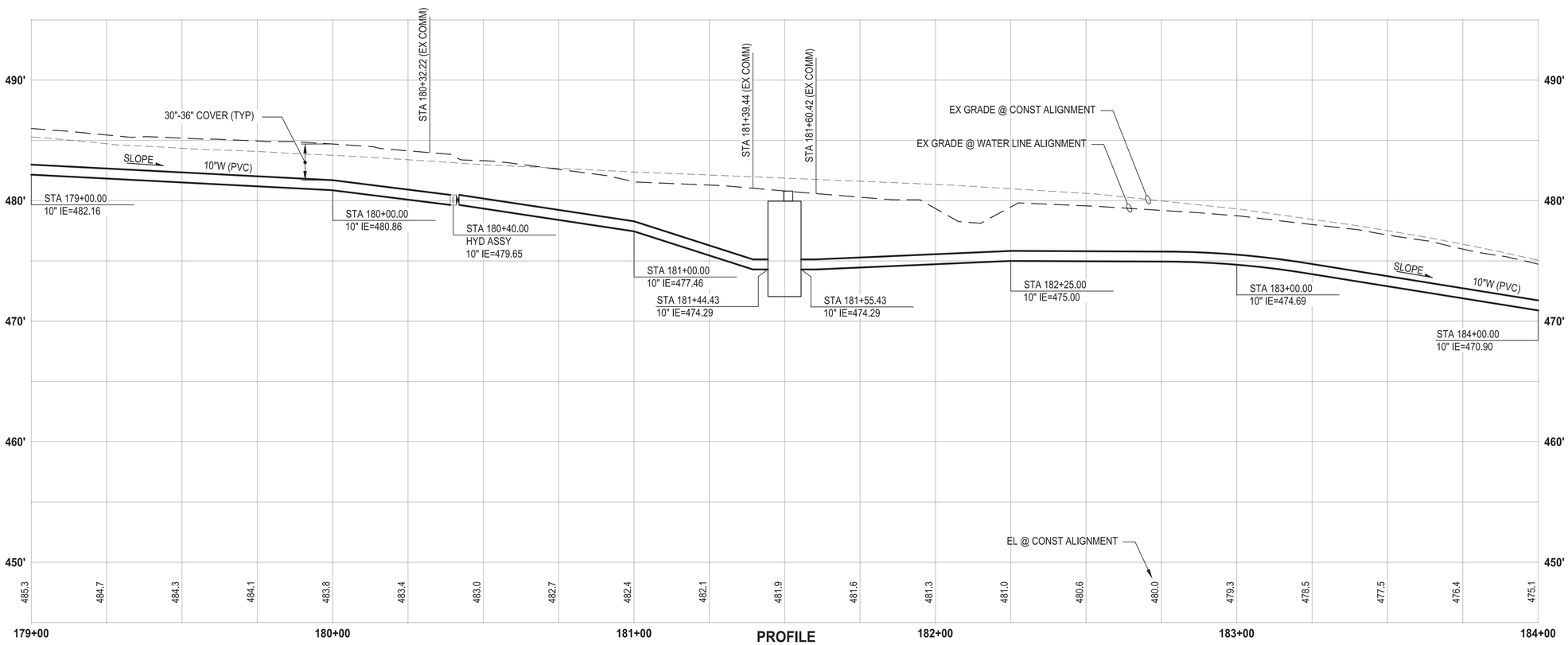
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 174+00 TO 179+00

DRAWING NO.
OF 91
W34

LAYOUT: W34 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDwg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:35:04 PM





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

2. INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
10. ABANDON EXISTING PRV
13. ABANDON EXISTING AC WATER MAIN
15. PRV & VAULT. SEE SHEETS DT3-DT5
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
3. PROVIDE TEMPORARY DIVERSION ON UPSLOPE SIDE OF WATER MAIN TRENCH. PROVIDE SANDBAGS, TEMPORARY SILT DIKES, OR OTHER METHODS DOCUMENTED IN THE CONTRACTOR-PREPARED SWPPPP.
4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W35-39
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
50287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

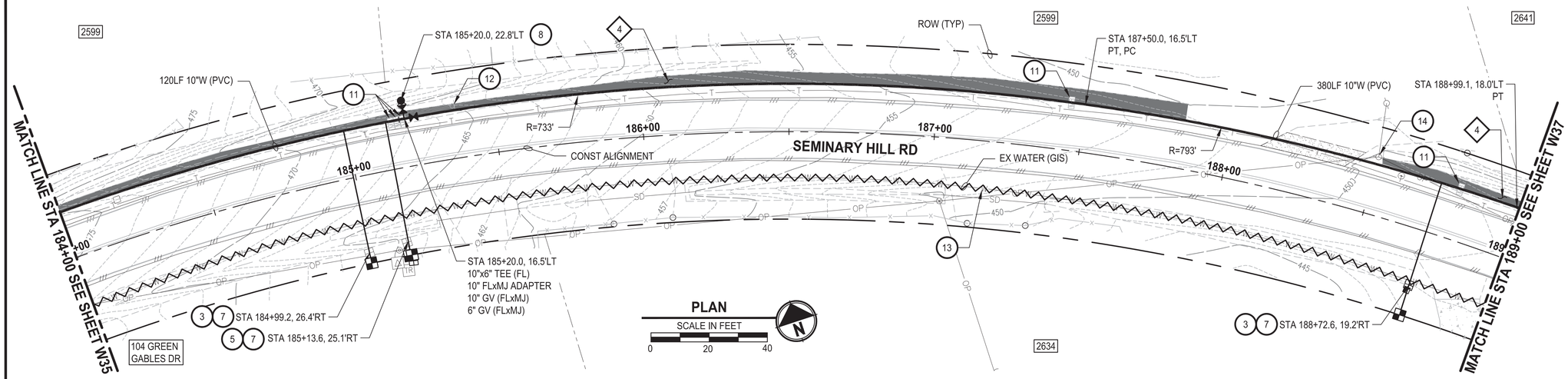
PATTY PAGE, PE
CITY ENGINEER
DATE

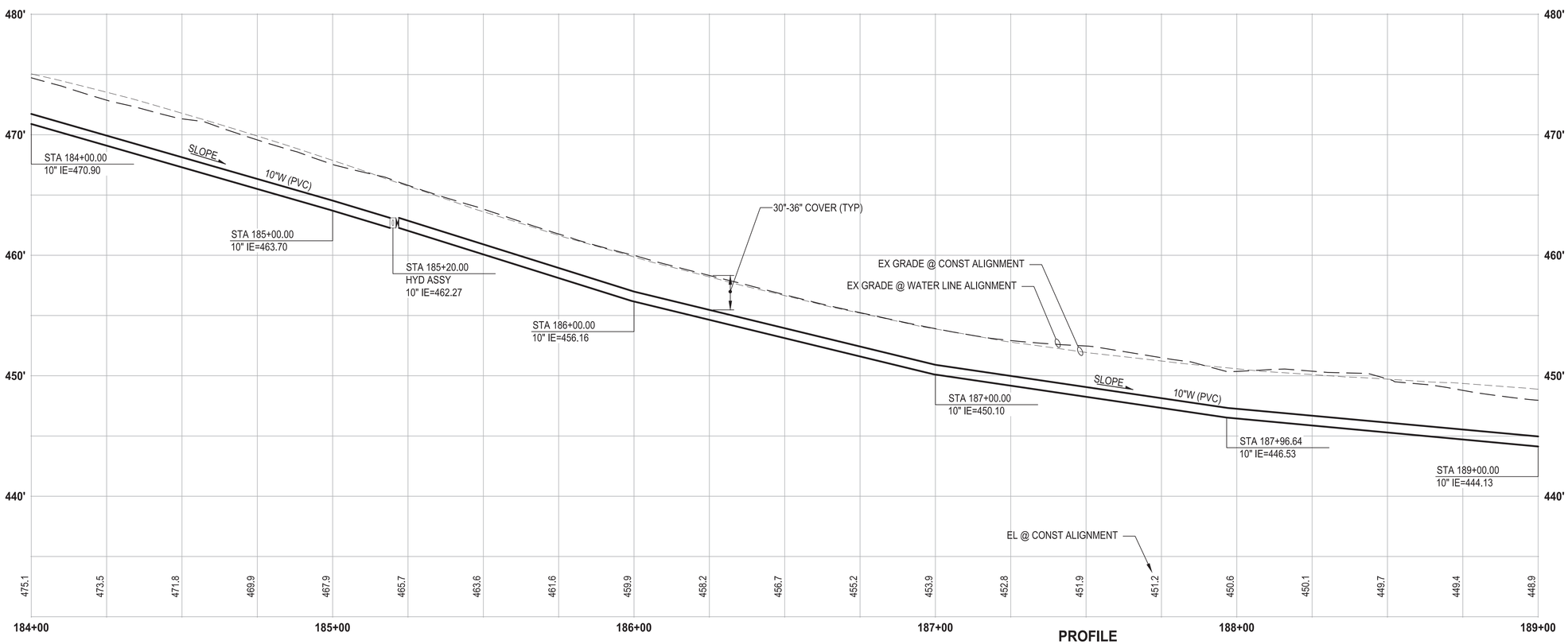
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 179+00 TO 184+00

DRAWING NO.
OF 91
W35

LAYOUT: W35 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDwg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:38:06 PM





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD.PLAN NO. 2-02
5. INSTALL ¾" DOUBLE WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-06
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
11. RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
12. RESET SIGN
13. ABANDON EXISTING AC WATER MAIN
14. POLE HOLD. COORDINATE W/ POWER CO.

TESC NOTES

4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER TRENCH TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN R. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W35-39
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
39287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

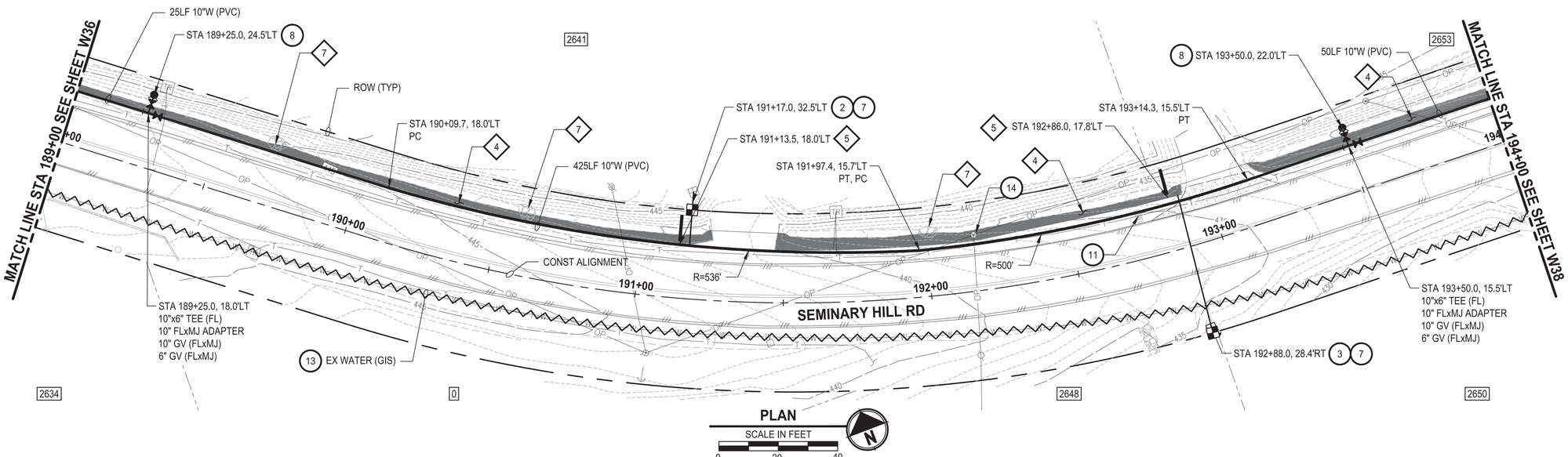
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 184+00 TO 189+00

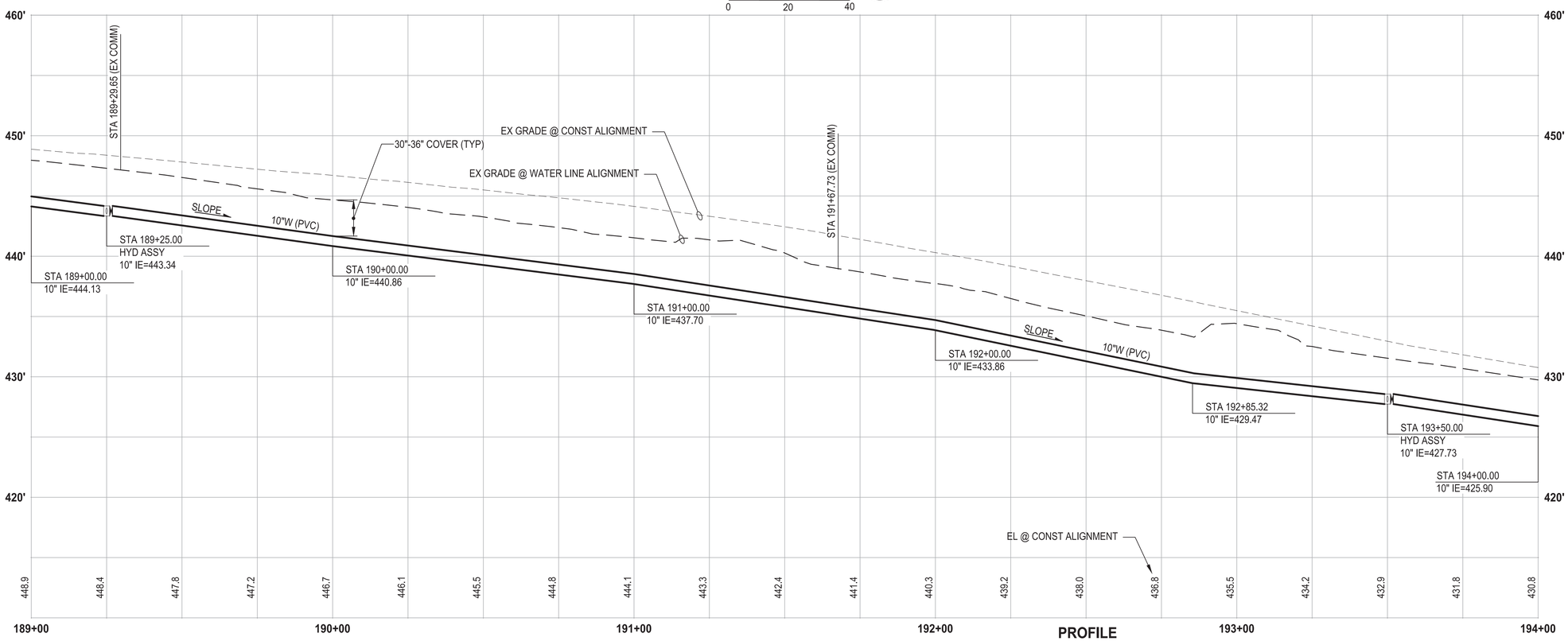
DRAWING NO.
OF 91
W36

LAYOUT: W36 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:38:35 PM



PLAN

SCALE IN FEET 0 20 40



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

- (2) INSTALL ¾" WATER SERVICE PER COC STD.PLAN NO. 2-02
- (3) INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
- (7) CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
- (8) INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
- (11) RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02
- (13) ABANDON EXISTING AC WATER MAIN
- (14) POLE HOLD. COORDINATE W/ POWER CO.

TESC NOTES

- (4) PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
- (5) PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
- (7) RESTORE DISTURBED ROCK CHECK DAM AS REQUIRED IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
- (10) PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W35-39
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 50287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

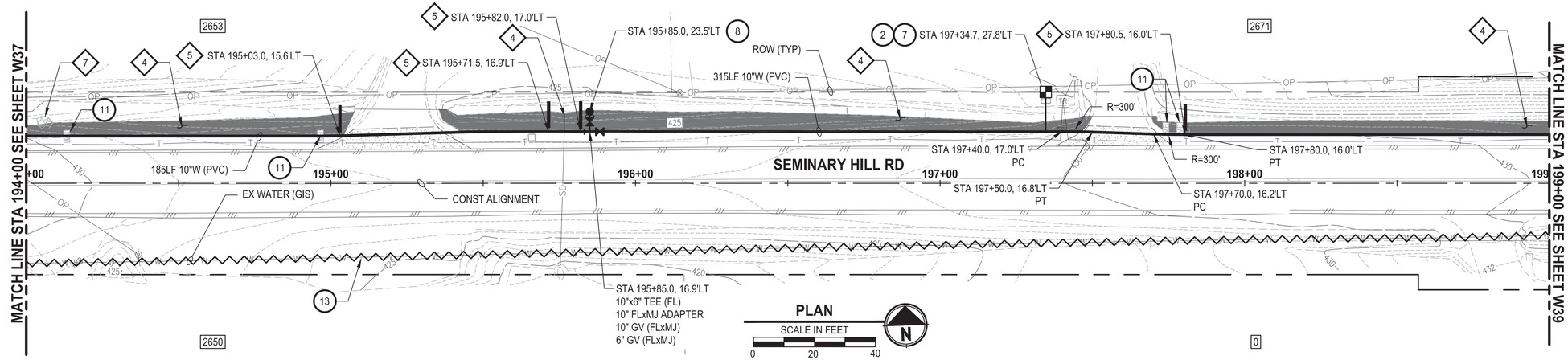
PATTY PAGE, PE
CITY ENGINEER
DATE

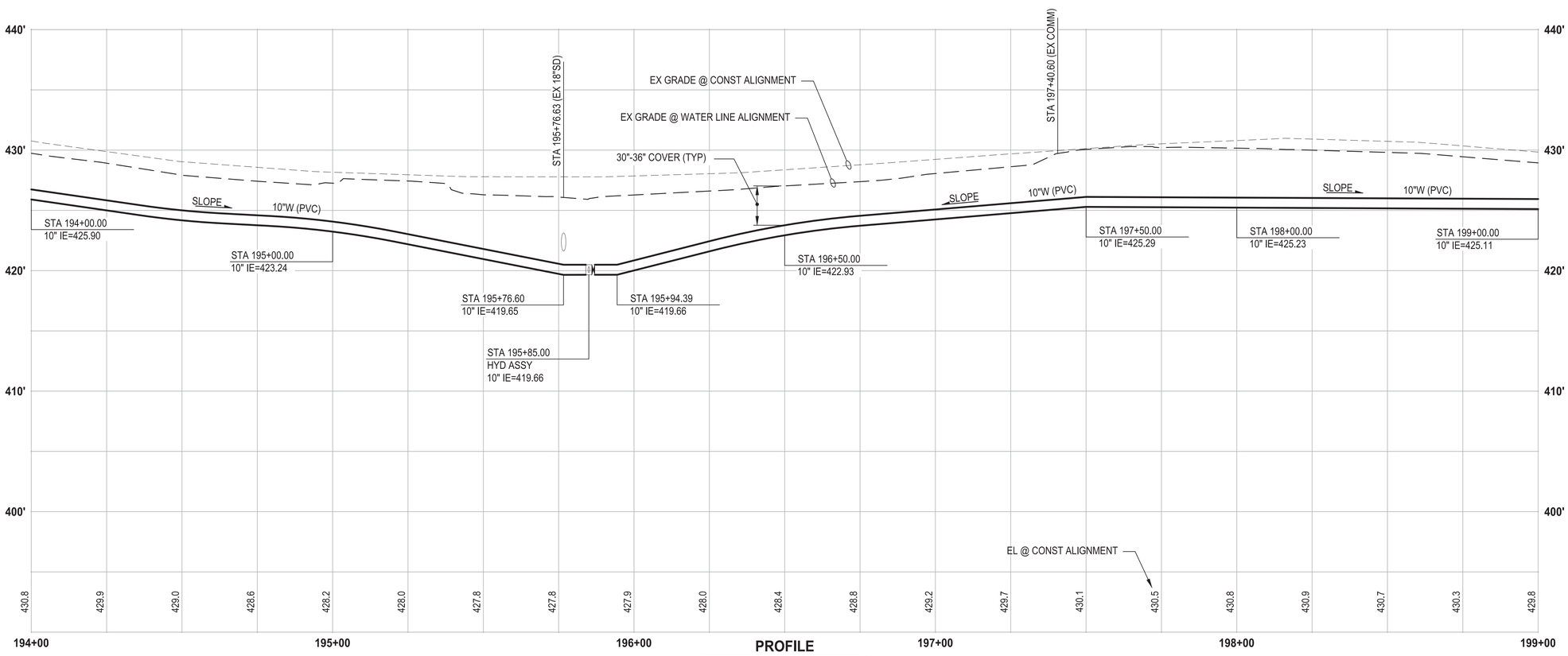
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 189+00 TO 194+00

DRAWING NO. ##### OF 91
W37

LAYOUT: W37 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDwg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:39:07 PM





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

2 INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02

7 CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

11 RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02

13 ABANDON EXISTING AC WATER MAIN

TESC NOTES

4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

5 PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

7 RESTORE DISTURBED ROCK CHECK DAM AS REQUIRED IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W35-39
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
36287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

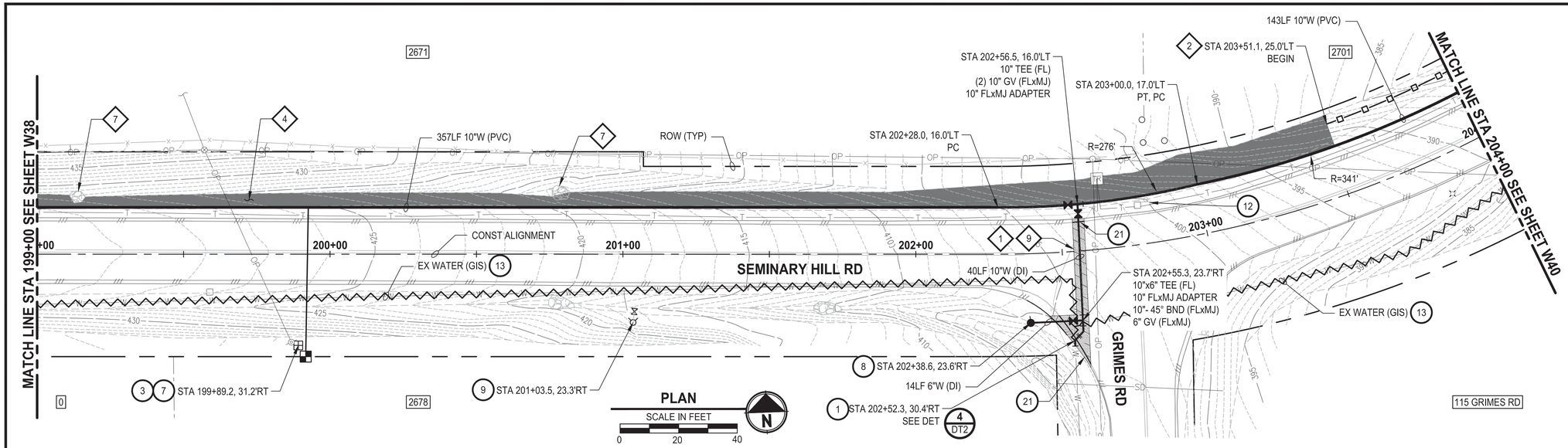
PATTY PAGE, PE
CITY ENGINEER
DATE

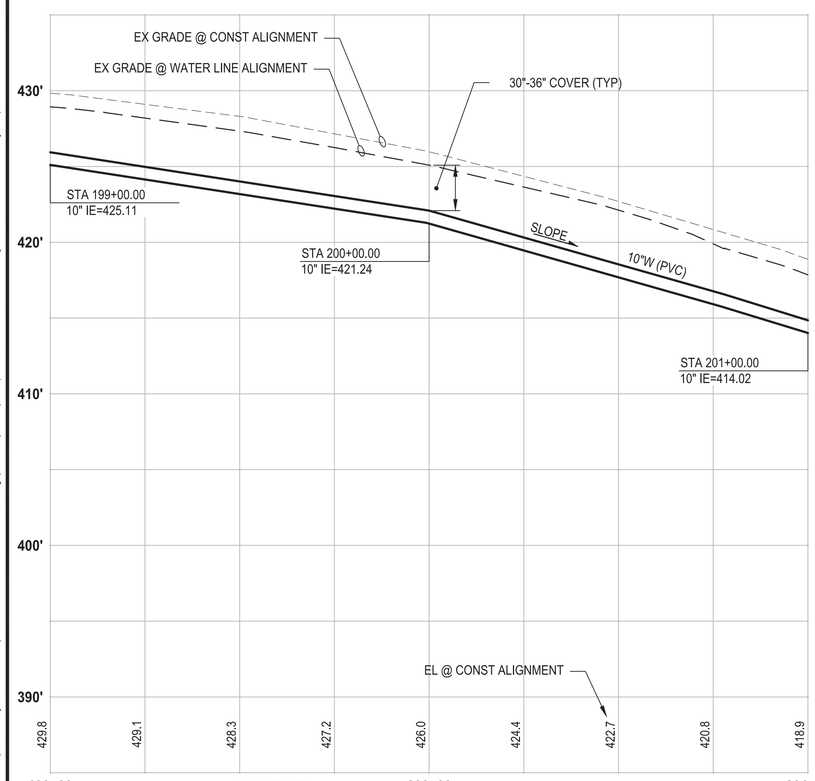
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 194+00 TO 199+00

DRAWING NO.
OF 91
W38

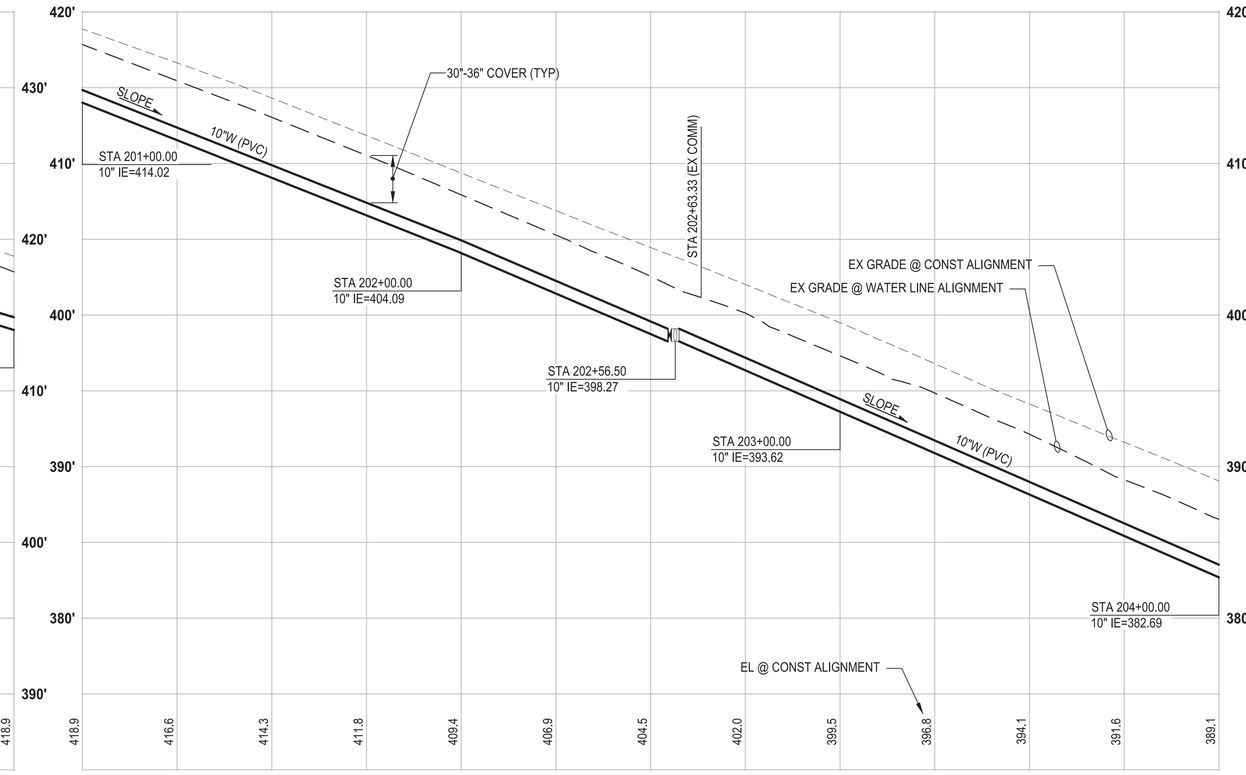
LAYOUT: W38 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:39:36 PM





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

1. CONNECT TO EXISTING WATER
3. INSTALL ¾" WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-02
7. CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
9. REMOVE EXISTING HYDRANT
12. RESET SIGN
13. ABANDON EXISTING AC WATER MAIN
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
7. RESTORE DISTURBED ROCK CHECK DAM AS REQUIRED IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W35-39
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG · STATE OF WASHINGTON · 50287 · REGISTERED PROFESSIONAL ENGINEER · PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

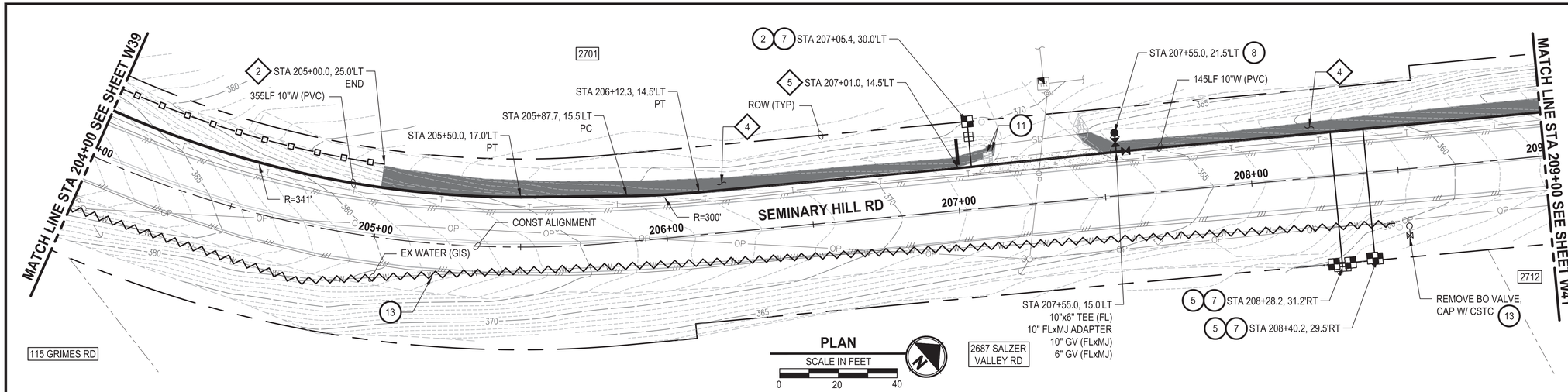
PATTY PAGE, PE
CITY ENGINEER
DATE

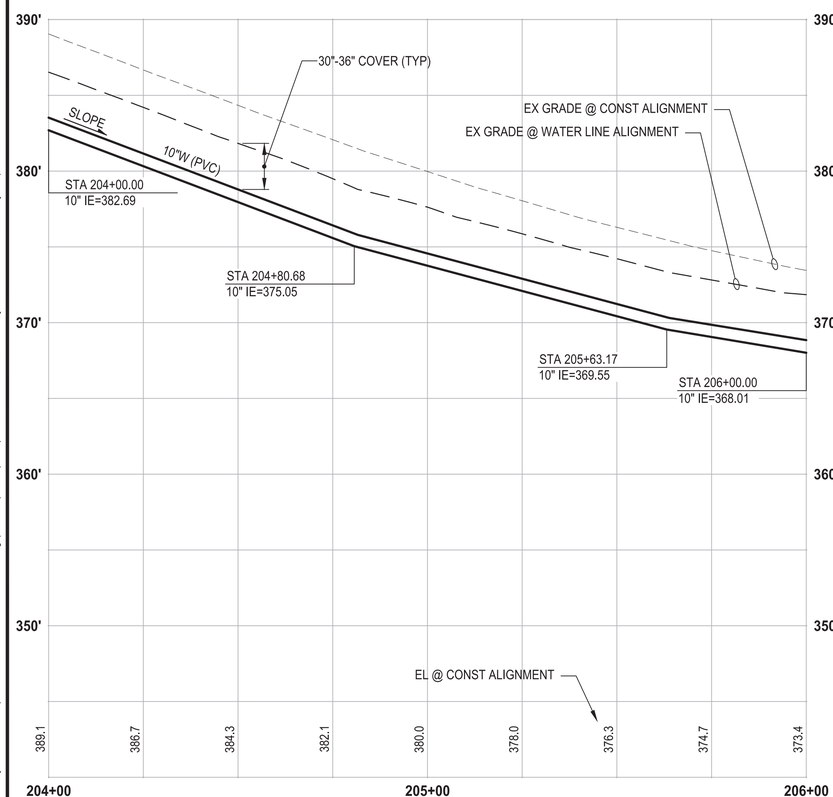
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 199+00 TO 204+00

DRAWING NO. ##### OF 91
W39

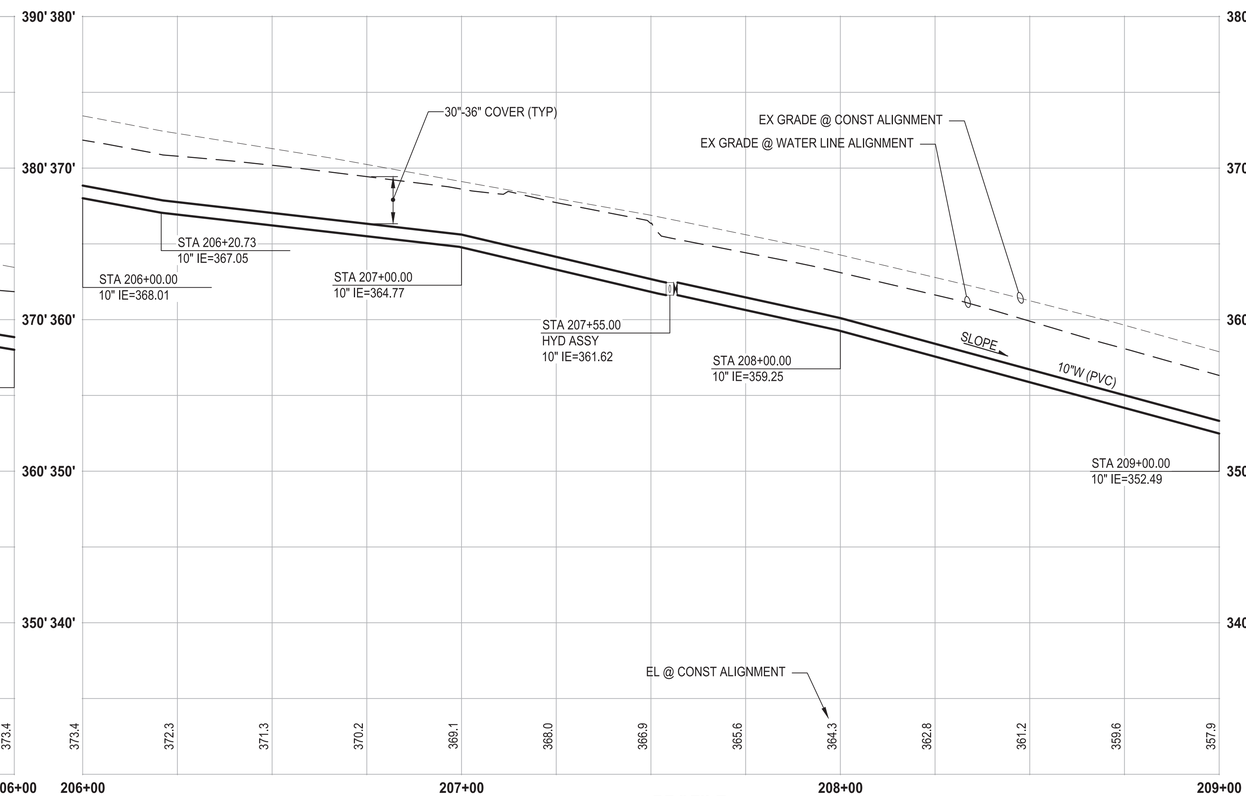
PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\995vcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:40:05 PM LAYOUT: W39





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

2 INSTALL ¾" WATER SERVICE PER COC STD PLAN NO. 2-02

5 INSTALL ¾" DOUBLE WATER LONG SIDE SERVICE (TRENCHLESS) PER COC STD PLAN NO. 2-06

7 CONNECT NEW SERVICE TO EXISTING SERVICE LINE. REMOVE EXISTING METER SETTER AND BOX.

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

11 RESET MAILBOX. MAILBOX SUPPORT PER WSDOT STD PLAN H-70.10-02

13 ABANDON EXISTING AC WATER MAIN

TESC NOTES

2 PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.

4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

5 PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W40-43
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 35287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

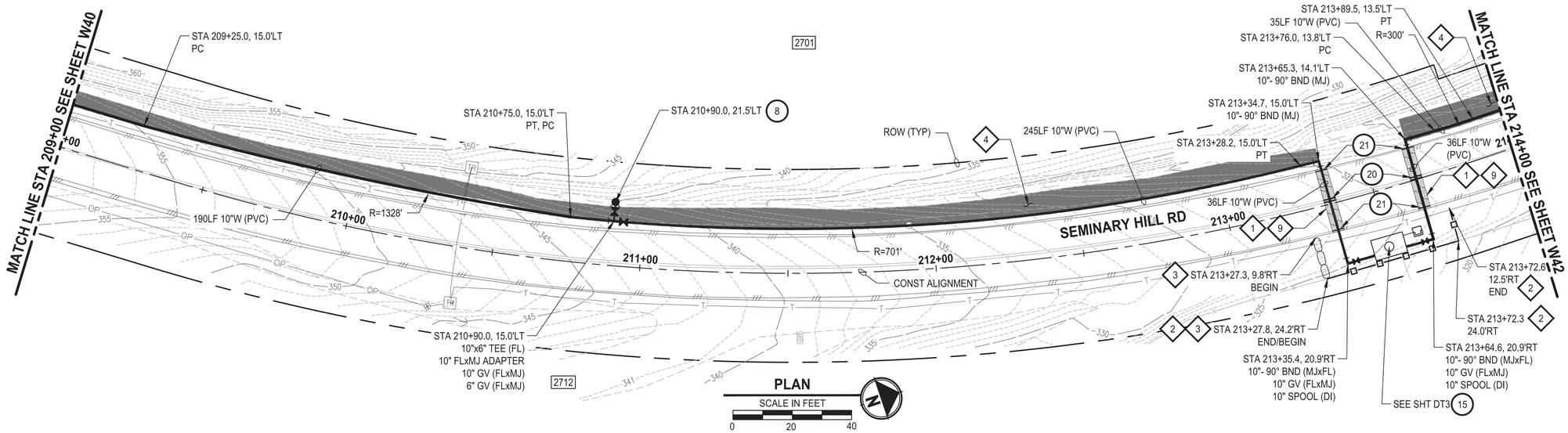
PATTY PAGE, PE
CITY ENGINEER
DATE

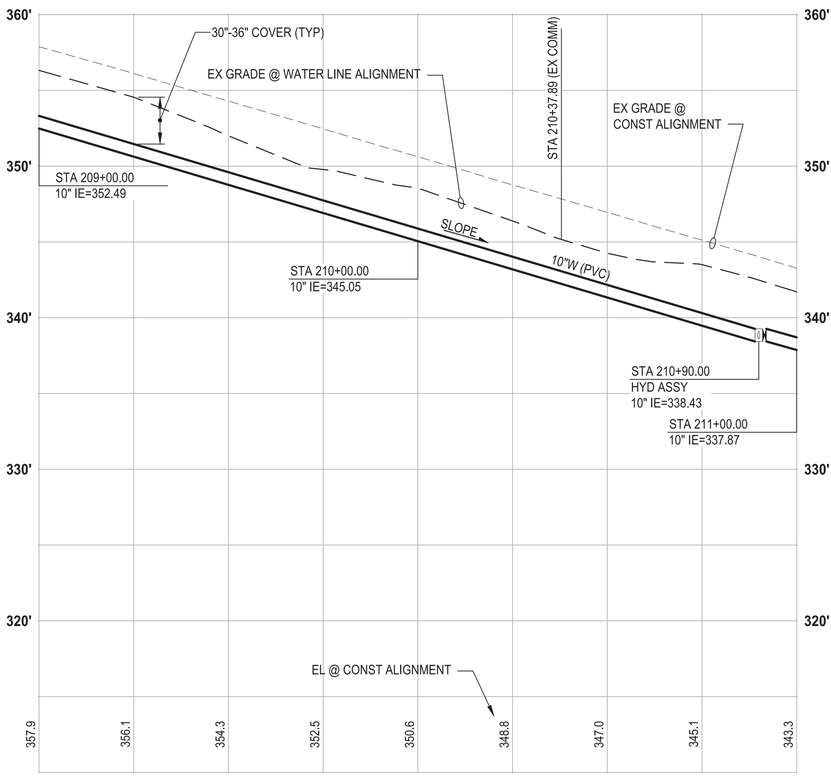
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 204+00 TO 209+00

DRAWING NO.
OF 91
W40

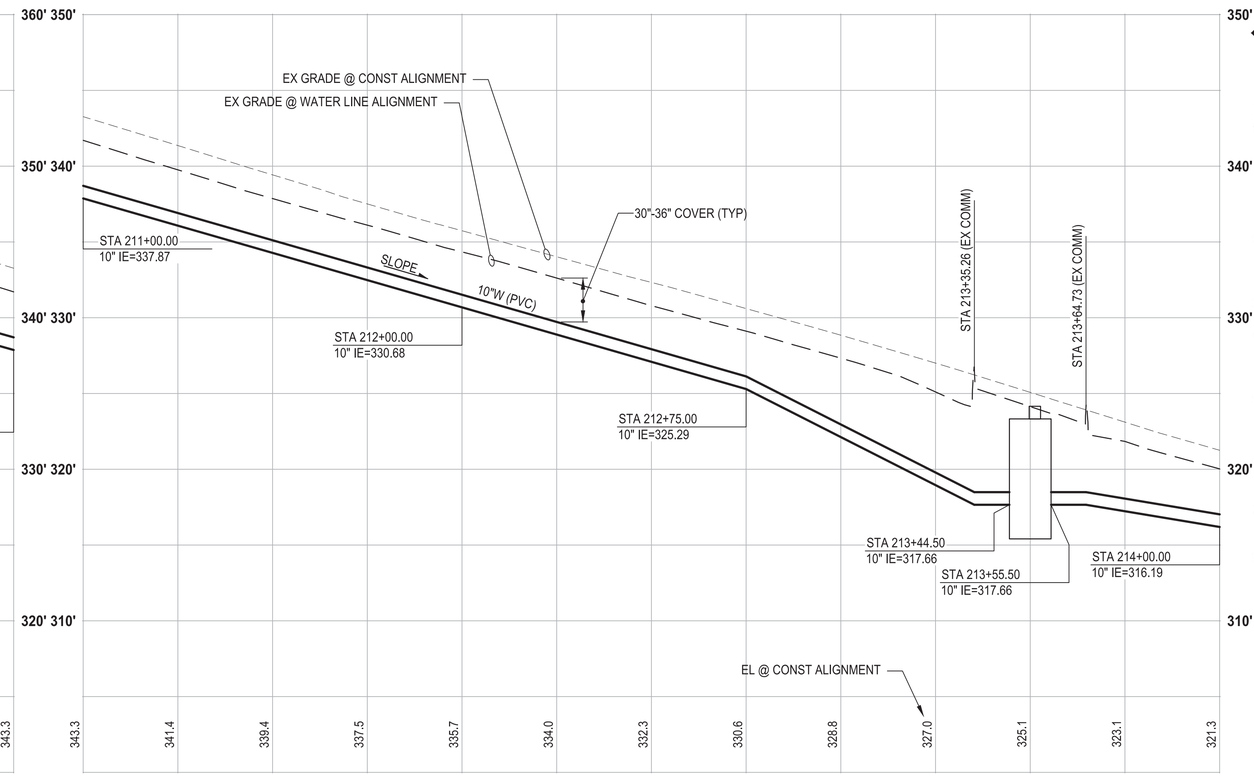
PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:43:02 PM
LAYOUT: W40





PROFILE

HORIZ: 1"=20'
VERT: 1"=5'



PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
15. PRV & VAULT. SEE SHEETS DT3-DT5
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
2. PROVIDE HIGH VISIBILITY SILT FENCE IN ACCORDANCE WITH WSDOT STD PLAN I-30.17-01.
3. PROVIDE TEMPORARY DIVERSION ON UPSLOPE SIDE OF WATER MAIN TRENCH. PROVIDE SANDBAGS, TEMPORARY SILT DIKES, OR OTHER METHODS DOCUMENTED IN THE CONTRACTOR-PREPARED SWPPPP.
4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR BESIDE THESE EXISTING UTILITIES.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.
4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-W40-43
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 53287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

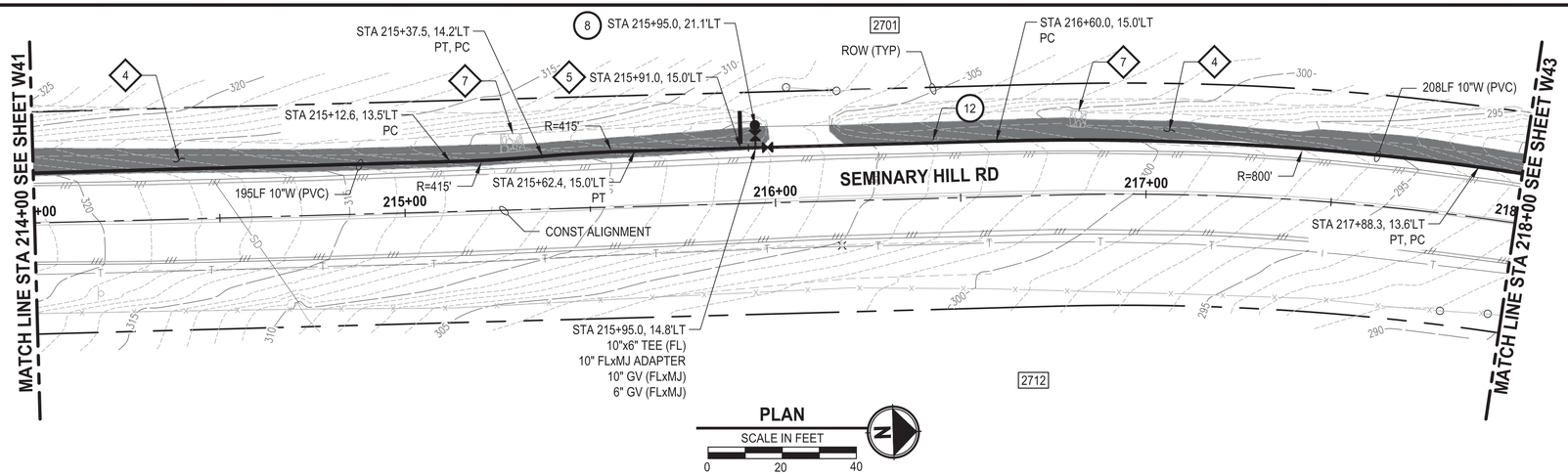
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 209+00 TO 214+00

DRAWING NO.
XXXX OF 91
W41

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\995vcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:43:28 PM LAYOUT: W41



PLAN

SCALE IN FEET

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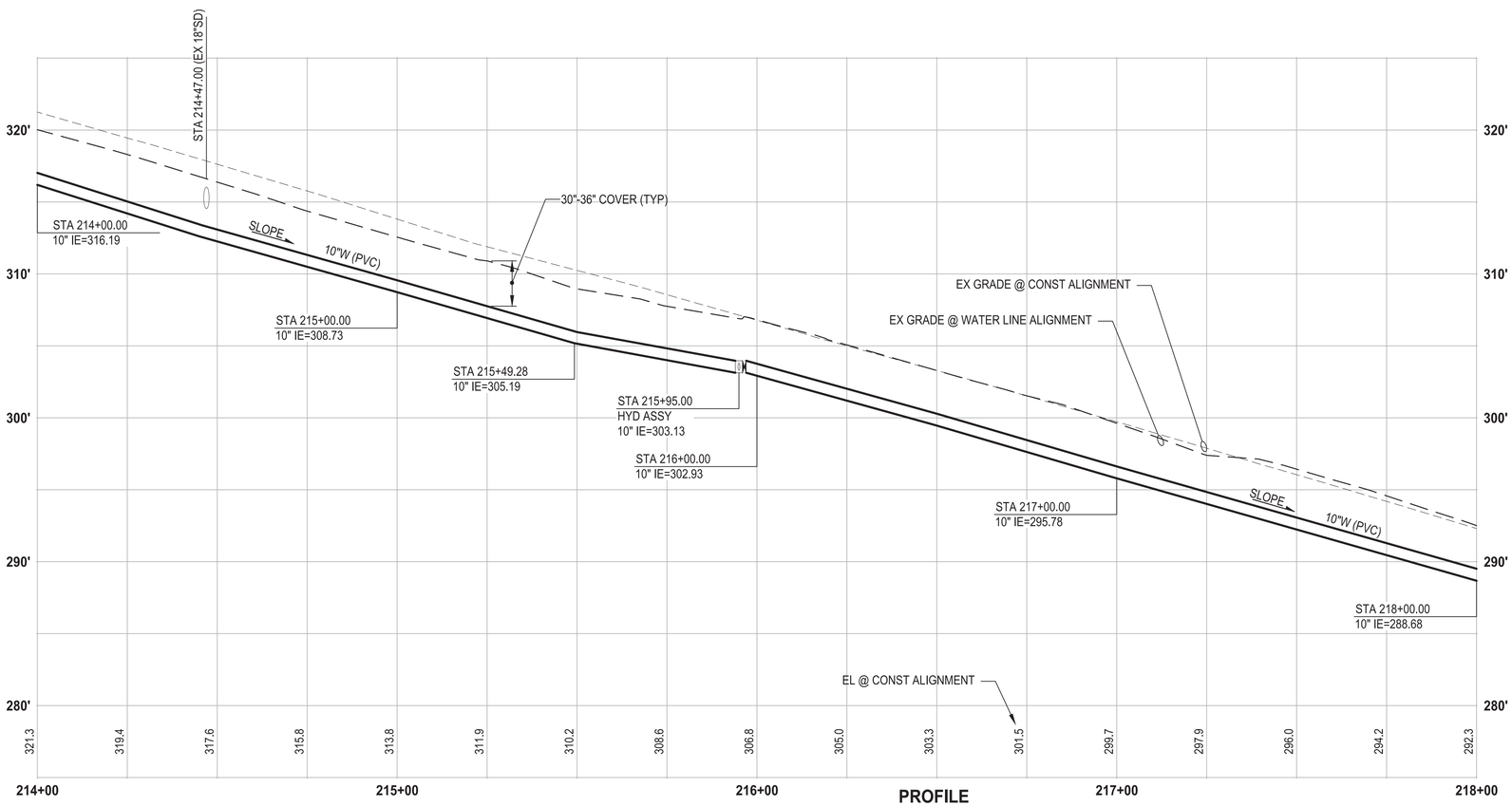

PROFILE

HORIZ: 1"=20'
VERT: 1"=5'

CONSTRUCTION NOTES

8 INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12

12 RESET SIGN

TESC NOTES

4 PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.

5 PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

7 RESTORE DISTURBED ROCK CHECK DAM AS REQUIRED IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.

10 PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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4. CONTRACTOR TO LOCATE AND VERIFY ALL METERS AND SERVICE CONNECTIONS. REPLACE METER AND CONNECT SERVICE TO NEW WATER MAIN.
5. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY AND ALL SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES.
6. FOR TRENCH AND SURFACE RESTORATION SECTIONS, SEE SHEET DT1.
7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
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REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

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JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 54287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
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Ph: 253.604.6600

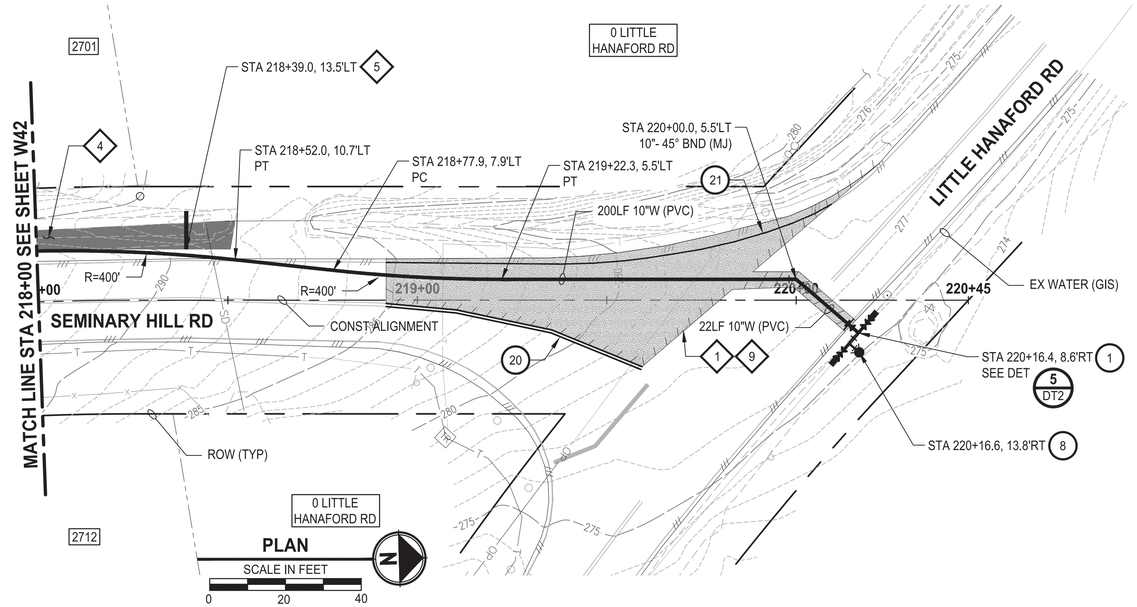
PATTY PAGE, PE
CITY ENGINEER
DATE

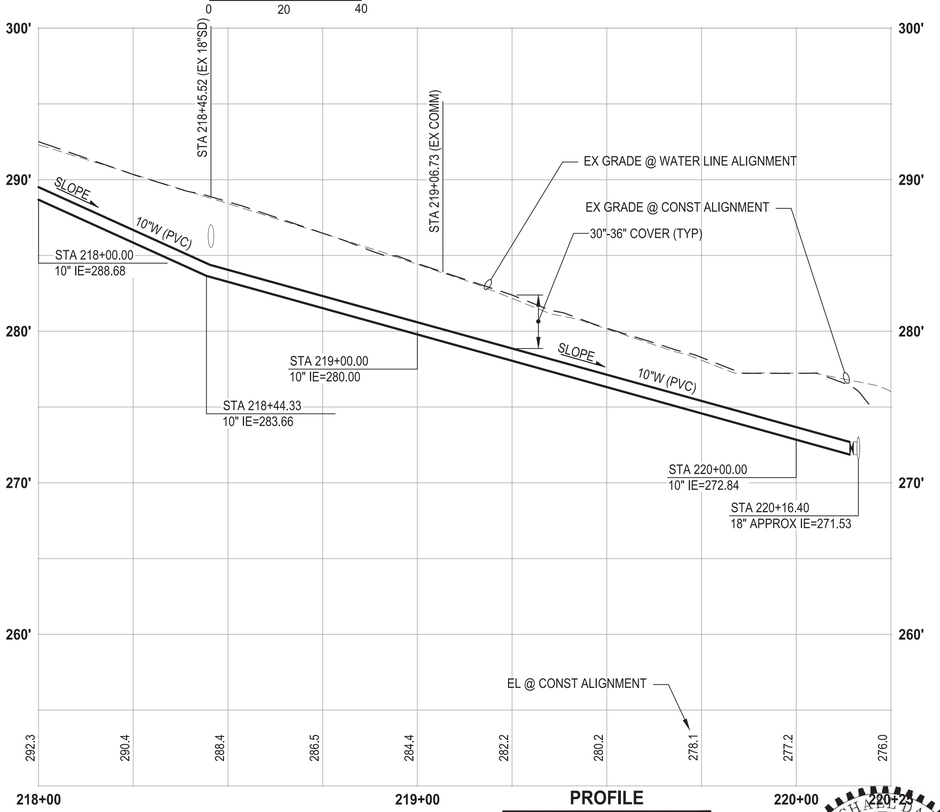
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE
STA 214+00 TO 218+00

DRAWING NO.
OF 91
W42

LAYOUT: W42 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\995vcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:43:58 PM





CONSTRUCTION NOTES

1. CONNECT TO EXISTING WATER
8. INSTALL HYDRANT ASSEMBLY PER COC STD PLAN NO. 2-12
20. YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.10-04
21. WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04

TESC NOTES

1. PROVIDE MANAGEMENT OF SAWCUT MATERIALS IN ACCORDANCE WITH SWMMWW BMP C152.
4. PROVIDE EROSION CONTROL BLANKET IN ACCORDANCE WITH CITY STD PLAN NO. 9-08. INSTALL FROM EDGE OF WATER MAIN TRENCH TO DITCH INVERT. IF EXCAVATION LIMITS EXTEND BEYOND DITCH INVERT, THEN PROVIDE EROSION CONTROL BLANKET IN DITCH IN ACCORDANCE WITH CITY STD PLAN NO. 9-09.
5. PROVIDE CHECK DAM IN ACCORDANCE WITH CITY STD PLAN NO. 9-07.
9. DO NOT DISTURB BEYOND LIMITS OF EXIST PAVING OR PROVIDE ADDITIONAL BMPS IN ACCORDANCE WITH CONTRACTOR-PREPARED SWPPP.
10. PROVIDE PERMANENT SEEDING FOR ALL DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE SURFACE RESTORATION DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. THE SITE WAS SURVEYED IN THREE PARTS WITHIN AUGUST 2023, MARCH 2024, AND MAY 2024. THE SURVEY WAS GENERALLY LIMITED WITHIN RIGHT-OF-WAY WIDTH AND SOME TREES AND BRUSH LOCATED WITHIN THE RIGHT-OF-WAY ARE NOT SHOWN FOR CLARITY. ALL VEGETATION AND UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR.
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7. PLACE FOAM BLOCK BETWEEN UTILITIES IF SEPARATION IS LESS THAN 0.5'.
9. ALL WATER MAIN JOINTS SHALL BE RESTRAINED JOINT.

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN K. TAYLOR
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
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JOB No. 216-3739-007 (PH2/3)
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MICHAEL DANG STATE OF WASHINGTON 35287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
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Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WATER PLAN AND PROFILE STA 218+00 TO END OF PROJECT

DRAWING NO. ##### OF 91
W43

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Wednesday, September 3, 2025 3:44:31 PM
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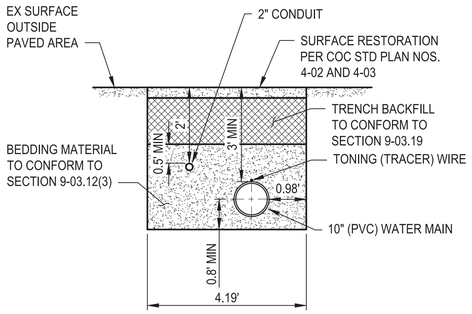
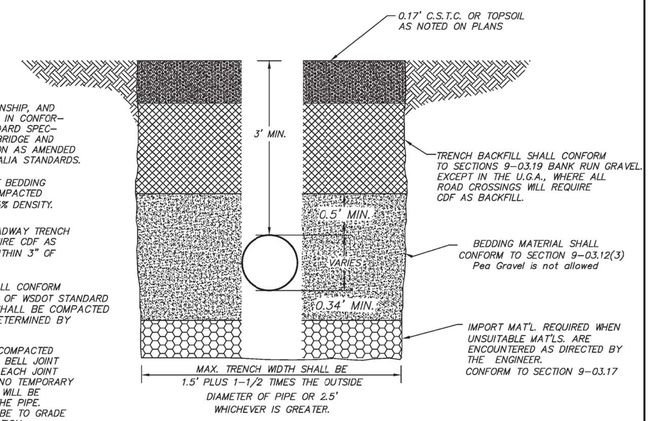


STA 12+17.1 TO STA 114+20.5
WATER MAIN TRENCH
DETAIL 1
NO SCALE TYP

NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS AMENDED BY THE CITY OF CENTRALIA STANDARDS.
2. ALL MATERIALS EXCEPT BEDDING MATERIAL SHALL BE COMPACTED IN 6" MAX. LIFTS TO 95% DENSITY.
3. IN THE U.G.A., ALL ROADWAY TRENCH CROSSINGS SHALL REQUIRE CDF AS TRENCH BACKFILL TO WITHIN 3" OF FINISH GRADE.
4. BEDDING MATERIAL SHALL CONFORM TO SECTION 9-03.12(3) OF WSDOT STANDARD SPECIFICATIONS AND SHALL BE COMPACTED TO 95% OF MAX. AS DETERMINED BY ASTM D1557.
5. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. A BELL JOINT SHALL BE REQUIRED AT EACH JOINT FOR PROPER SUPPORT. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT THE PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.
6. COLD MIX WILL BE REQUIRED FOR TEMPORARY PATCHES OR ROAD CROSSINGS.
7. ALL TRENCH MATERIAL SHALL BE IMPORT. NATIVE MATERIAL MAY ONLY BE USED OUTSIDE ROADWAY PRISM WITH PRIOR APPROVAL IF TESTING CONFIRMS IT MEETS BACKFILL SPEC. PIPE BEDDING MUST BE IMPORT AT ALL TIMES.

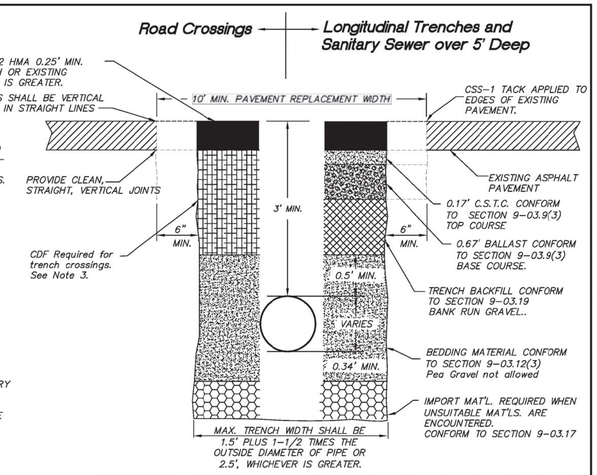


STD. PLAN NO.	APPROVED BY	REVISED DATE	CITY OF CENTRALIA
4-02	CITY ENGINEER	06-2017	TRENCH RESTORATION OUTSIDE PAVED AREA
	2022 Standard Drawings		

Road Crossings — **Longitudinal Trenches and Sanitary Sewer over 5' Deep**

NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH WSDOT SPECIFICATIONS AND CITY OF CENTRALIA STANDARDS.
2. ALL MATERIALS EXCEPT BEDDING MATERIAL SHALL BE COMPACTED IN 6" MAX. LIFTS TO 95% DENSITY.
3. ALL ROADWAY TRENCH CROSSINGS SHALL REQUIRE CDF AS TRENCH BACKFILL EXCEPT SANITARY SEWER MAIN LINES DEEPER THAN 5 FEET.
4. BEDDING MATERIAL SHALL CONFORM TO SECTION 9-03.12(3) OF WSDOT SPECIFICATIONS COMPACTED TO 95% OF MAX. DENSITY PER ASTM D1557.
5. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. A BELL JOINT SHALL BE REQUIRED AT EACH JOINT FOR PROPER SUPPORT. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT THE PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.
6. COLD MIX WILL BE REQUIRED FOR TEMPORARY PATCHES OR ROAD CROSSINGS.
7. ALL TRENCH MATERIAL SHALL BE IMPORT. NATIVE MATERIAL MAY ONLY BE USED OUTSIDE ROADWAY PRISM WITH PRIOR APPROVAL IF TESTING CONFIRMS IT MEETS BACKFILL SPEC. PIPE BEDDING MUST BE IMPORT AT ALL TIMES.



STD. PLAN NO.	APPROVED BY	REVISED DATE	CITY OF CENTRALIA
4-03	CITY ENGINEER	06-2017	TRENCH RESTORATION ASPHALT PAVEMENT
	2022 Standard Drawings		

RESTORATION TABLE

RESTORATION TYPE	RESTORATION	COMMENTS	LOCATION
LAWN	SODDED LAWN INSTALLATION OVER 3" MIN PREPARED DEPTH TOPSOIL TYPE A	FINISHED GRADE SHALL BE SMOOTH AND CONSISTENT WITH EXISTING GRADE.	ALL AREAS BEYOND ROW LIMITS CONNECTING TO EXISTING LAWN
UNIMPROVED AREAS	SEEDING, FERTILIZING, AND MULCHING OVER 3" MIN PREPARED DEPTH TOPSOIL TYPE A	FINISHED GRADE SHALL BE SMOOTH AND CONSISTENT WITH EXISTING GRADE	ALL OTHER AREAS NOT SPECIFIED
GRAVEL	CSTC - 2" MIN COMPACTED DEPTH (OR MATCH EXISTING)	FINISHED GRADE SHALL BE SMOOTH AND CONSISTENT WITH EXISTING GRADE.	4' WIDTH FROM EDGE OF EXISTING PAVEMENT
GRAVEL DRIVEWAYS	CSTC - 3" MIN COMPACTED DEPTH (OR MATCH EXISTING)	FINISHED GRADE SHALL BE SMOOTH AND CONSISTENT WITH EXISTING GRADE.	EX GRAVEL DRIVEWAYS

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED M. DANG
DRAWN K. TAYLOR
CHECKED #####
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-DT
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG — STATE OF WASHINGTON — 56287 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

Parametrix
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Ph: 253.604.6600

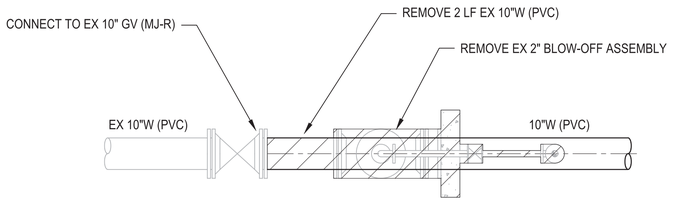
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

TRENCH AND RESTORATION DETAILS

DRAWING NO. ##### OF 91
DT1

LAYOUT: DT1 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:43:01 AM



STA 12+17.0 CONNECTION
DETAIL 1 W1
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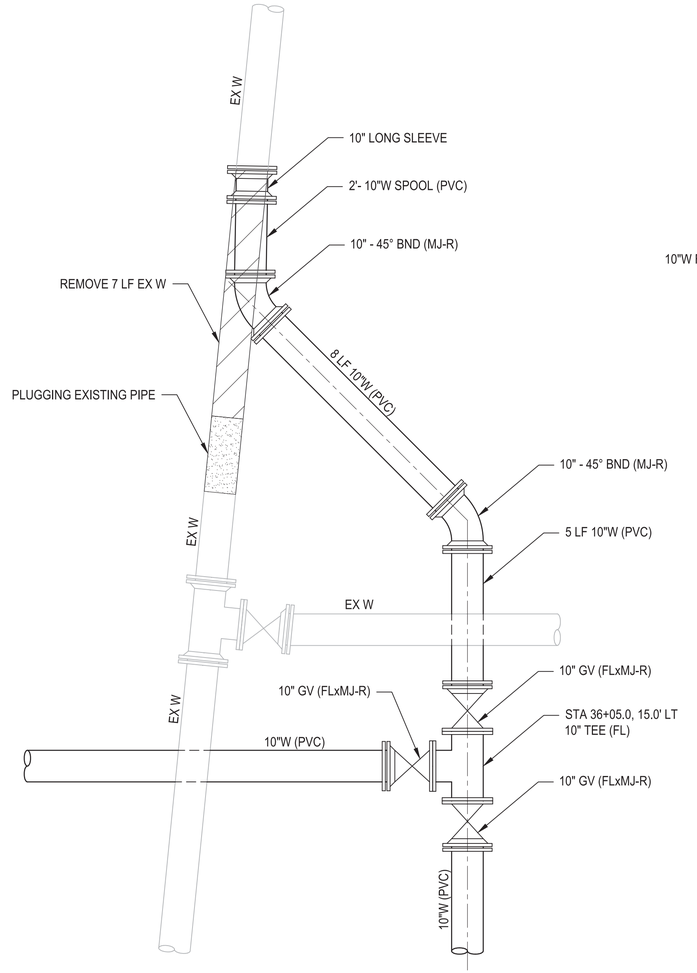

STA 36+05.0 CONNECTION
DETAIL 2 W6
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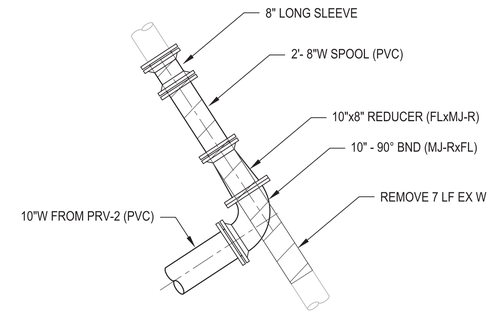

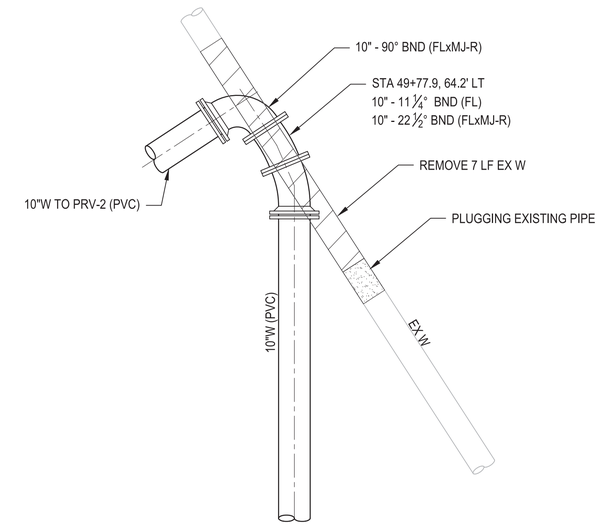

GLEASON ROAD
STA 49+77.9 CONNECTION
DETAIL 3 W9
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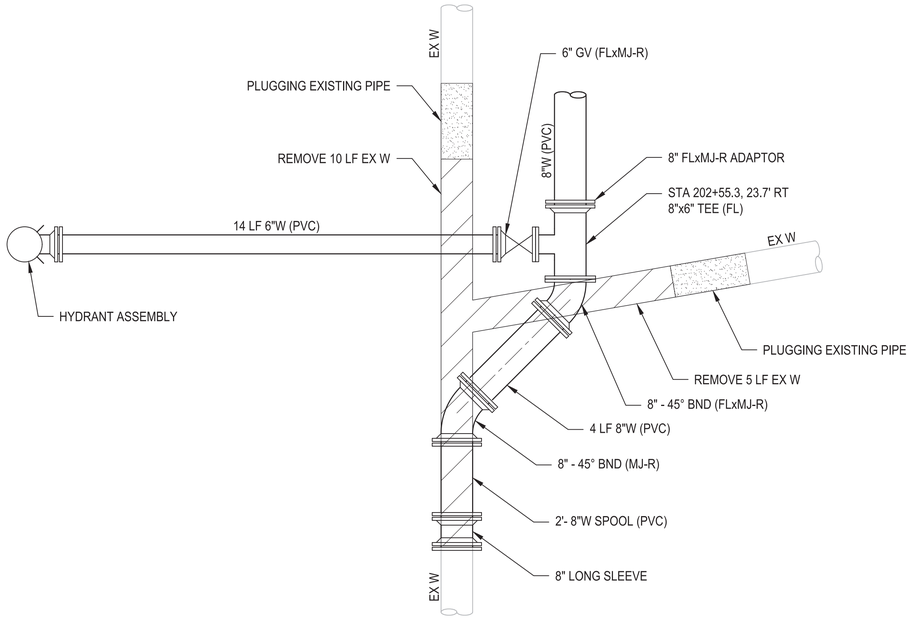

GRIMES ROAD
STA 202+55.3 CONNECTION
DETAIL 4 W39
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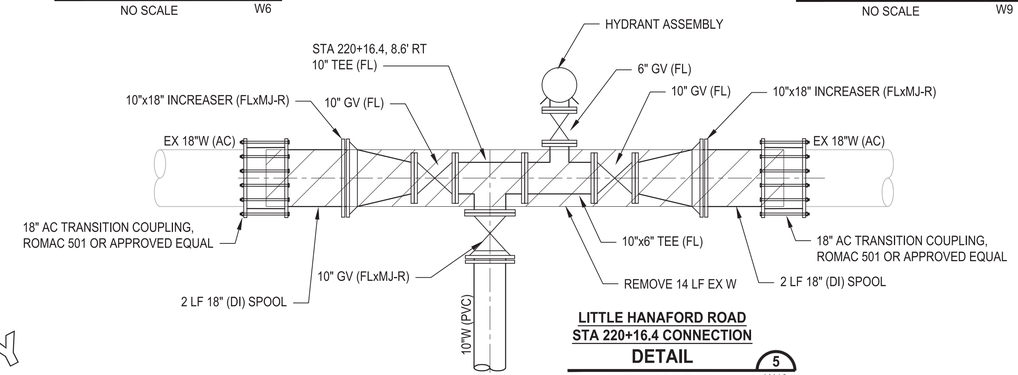

LITTLE HANAFORD ROAD
STA 220+16.4 CONNECTION
DETAIL 5 W43
NO SCALE

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

PRELIMINARY

MICHAEL DANG
STATE OF WASHINGTON
56287
REGISTERED PROFESSIONAL ENGINEER

▷	REVISIONS	DATE	BY

DESIGNED M. DANG / J. BETZVOG
DRAWN J. BETZVOG
CHECKED #####
APPROVED #####

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CITY ENGINEER
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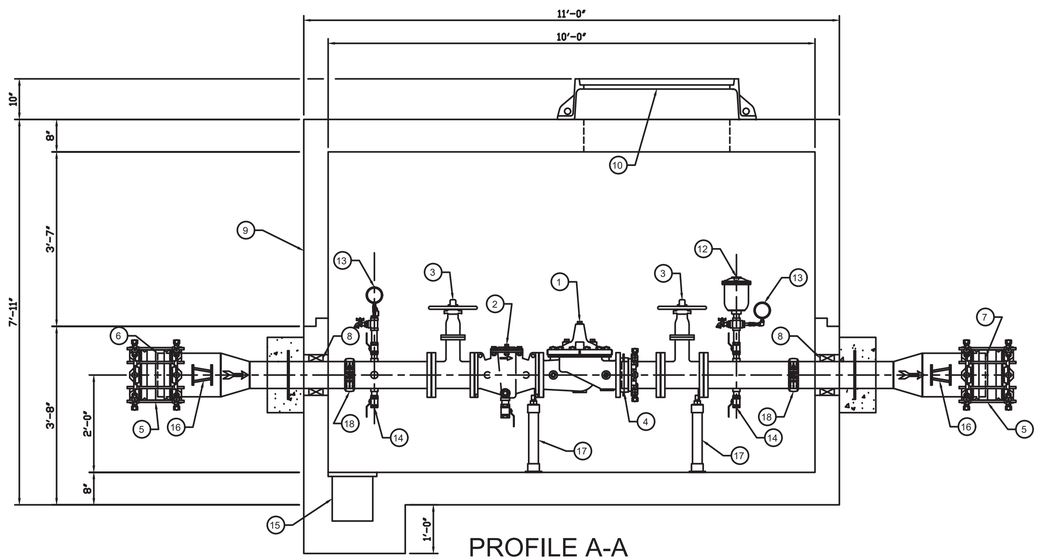
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

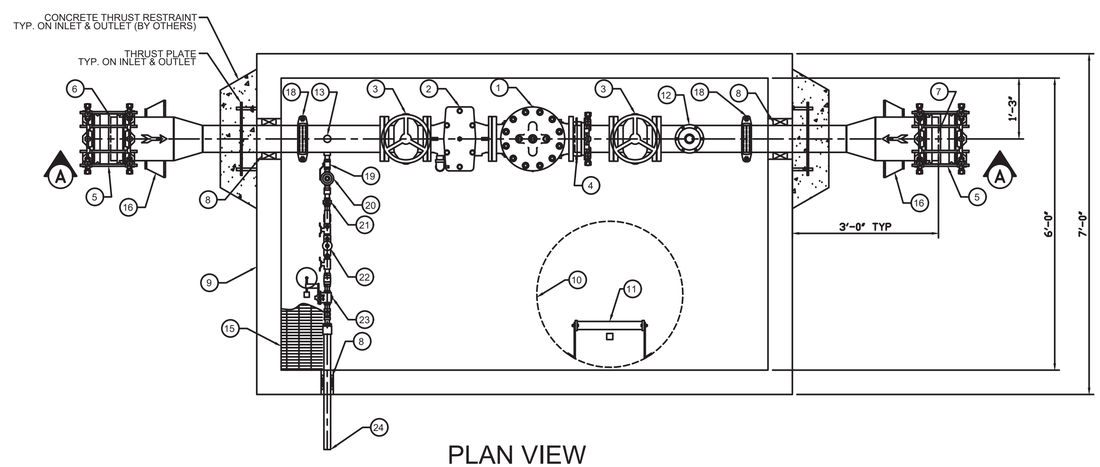
CONNECTION DETAILS

DRAWING NO.
OF 91
DT2

LAYOUT: DT2 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill Prelim3sg\99Scs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:43:20 AM



PROFILE A-A



PLAN VIEW

NOTES: FABRICATED STEEL PIPE AND FITTINGS ARE SCHEDULE 40 FOR SIZES UP TO 10" AND STANDARD WALL FOR 12" AND LARGER.

2" PIPE AND SMALLER PIPE TO BE 304SS MEETING NSF61 STANDARDS.

3" PIPE AND LARGER PIPE TO BE COATED WITH FUSION BONDED EPOXY (INTERIOR AND EXTERIOR) MEETING NSF61 STANDARDS

THE VAULT PACKAGE WILL BE BABA COMPLIANT.

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OFF-LOADING AND SETTING OF EACH SECTION BY INSTALLING CONTRACTOR.

JOINT SEALANT WILL BE SUPPLIED FOR INSTALLATION BY CONTRACTOR BETWEEN THE THREE (3) SECTIONS.

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
1	1	6" CLA-VAL 90G-01BCDSVYKCX PRESSURE REDUCING VALVE, (G) GLOBE PATTERN, DUCTILE IRON BODY, (KC) EPOXY LINED AND COATED, STAINLESS STEEL TRIM, 150# FLANGED RATED TO 250 PSI, (B) PILOT SYSTEM ISOLATION VALVES, (C) CLOSING SPEED CONTROL, (D) CHECK FEATURE FOR ONE-WAY FLOW, (S) OPENING SPEED CONTROL, (V) X101D VISUAL VALVE POSITION INDICATOR, (Y) X43 WYE STRAINER, STAINLESS STEEL PILOT SYSTEM TUBING & FITTINGS, BRONZE PILOT WITH 15-75 PSI ADJUSTMENT RANGE, KX=BABA/AIS COMPLIANT
2	1	6" CLA-VAL X43HKX 'H' STYLE STRAINER, DUCTILE IRON BODY, (KC) EPOXY LINED AND COATED, STAINLESS STEEL TRIM, 150# FLANGED RATED TO 250 PSI, STANDARD 10 MESH SCREEN, WITH BLOWDOWN, KX=BABA/AIS COMPLIANT
3	2	6" KENNEDY SERIES 7000 NRS RESILIENT SEAT GATE VALVE (OPEN LEFT)
4	1	6" EBAA MEGAFLANGE
5	2	10" EBAA SERIES 3800 MEGA-COUPLING
6	1	10" STEEL PIPE PLAIN END INLET CONNECTION
7	1	10" STEEL PIPE PLAIN END OUTLET CONNECTION
8	3	APS INNERLYNX MODULAR MECHANICAL SEALS
9	1	PRECAST CONCRETE VAULT
10	1	NEENAH FOUNDRY 36" CLEAR OPENING MODEL 1640-D MAHNOLE FRAME & COVER
11	1	ALUMINUM LADDER WITH SAFETY POST
12	1	1" CLA-VAL MODEL 33A AIR RELEASE & VACUUM BREAKER VALVE
13	2	0-200 PSI INLET GAUGE ASSEMBLY, 0-100 PSI OUTLET GAUGE ASSEMBLY
14	2	1" SS BALL VALVE & HOSE BIBB
15	1	10" WIDE X 12" DEEP X 6'0" LONG SUMP WITH GRATE
16	4	RESTRAINT LUGS
17	2	PIPE SUPPORT
18	2	6" VICTAULIC STYLE 107V COUPLING
19	1	1/2" BALL VALVE
20	1	1/2" CLA-VAL MODEL CRD-L PRESSURE REDUCING VALVE
21	1	1/2" UNION
22	1	3/4" WATTS MODEL 007 BACKFLOW PREVENTER
23	1	1/2" X 1-1/4" CLA-VAL MODEL PDA VAULT DRAIN ASSEMBLY
24	1	1-1/4" DRAIN ASSEMBLY OUTLET

REV	DATE	DESCRIPTION
0	6/27/25	FOR REVIEW

TITLE:6" PRV CHAMBER PACKAGE (10" IN/OUT)

PROJECT: CENTRALIA, WA
SEMINARY HILL PRESSURE ZONE #1

PAGE: 1 OF 1 | EPS08318

SCALE: NTS

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED BY OTHER
DRAWN BY OTHER
CHECKED #####
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-DT3
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
56287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

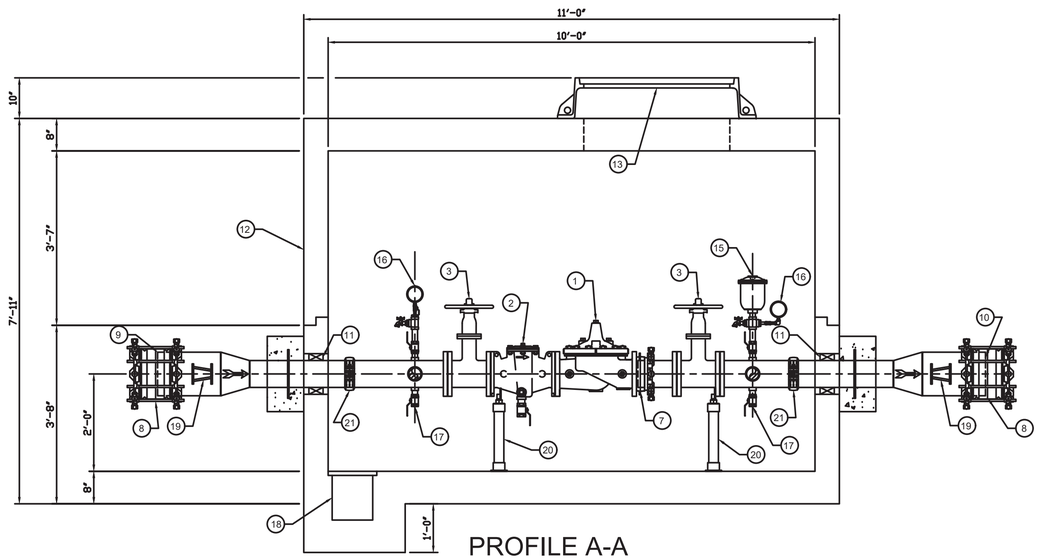
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

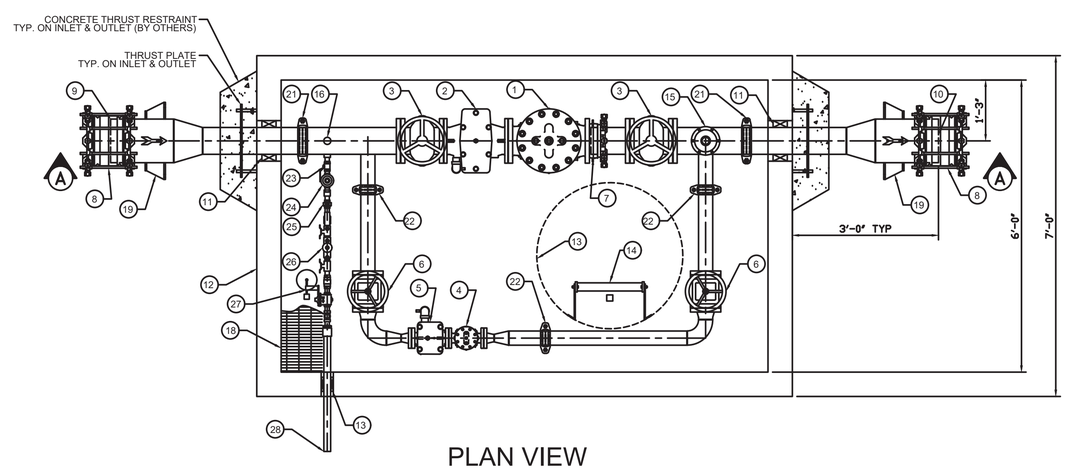
PRESSURE RELIEF VALVE 1
STA 213+50

DRAWING NO. ##### OF 91
DT3

LAYOUT: DT3 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:47:13 AM



PROFILE A-A



PLAN VIEW

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4	1	1-1/2" Cla-Val 90G-01BCDSVYKCX Pressure Reducing Valve, (G) Globe pattern, Ductile iron body, (KC) Epoxy lined and coated, Stainless steel trim, 150# flanged rated to 250 psi, (B) pilot system isolation valves, (C) closing speed control, (D) check feature for one-way flow, (S) opening speed control, (V) X101D visual valve position indicator, (Y) X43 wye strainer, Stainless steel pilot system tubing & fittings, Bronze pilot with 15-75 psi adjustment range, KX=BABA/AIS compliant
5	1	1-1/2" CLA-VAL X43HKX 'H' STYLE STRAINER, DUCTILE IRON BODY, (KC) EPOXY LINED AND COATED, STAINLESS STEEL TRIM, 150# FLANGED RATED TO 250 PSI, STANDARD 10 MESH SCREEN, WITH BLOWDOWN, KX=BABA/AIS COMPLIANT
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19	4	RESTRAINT LUGS
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REV	DATE	DESCRIPTION
0	6/27/25	FOR REVIEW

TITLE:6" X 1.5" PRV CHAMBER PACKAGE (10" IN/OUT)

PROJECT: CENTRALIA, WA
SEMINARY HILL PRESSURE ZONE #2

PAGE: 1 OF 1 | EPS08319

SCALE: NTS

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED BY OTHER
DRAWN BY OTHER
CHECKED #####
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-DT4
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
52387
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

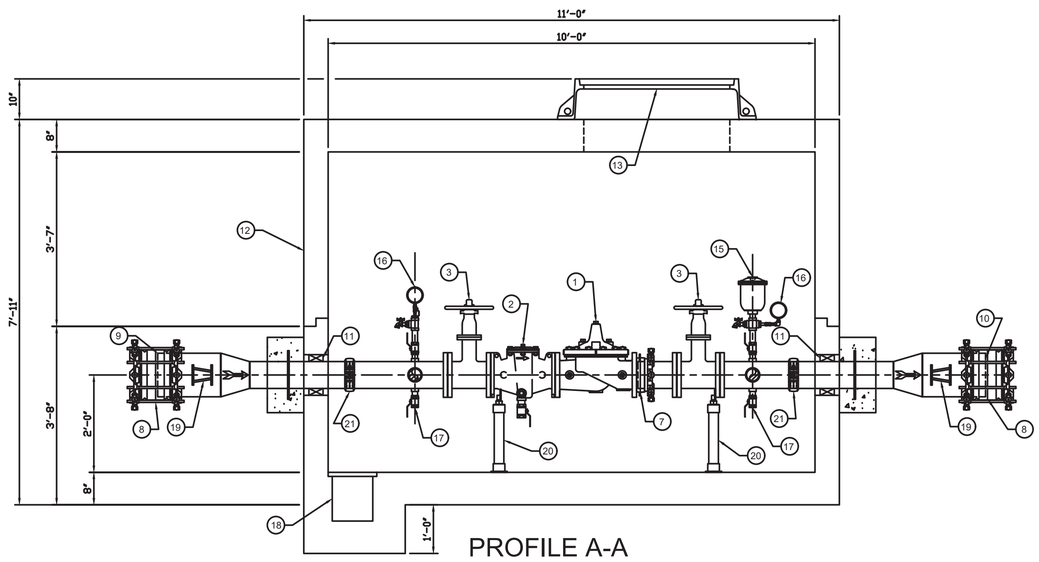
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

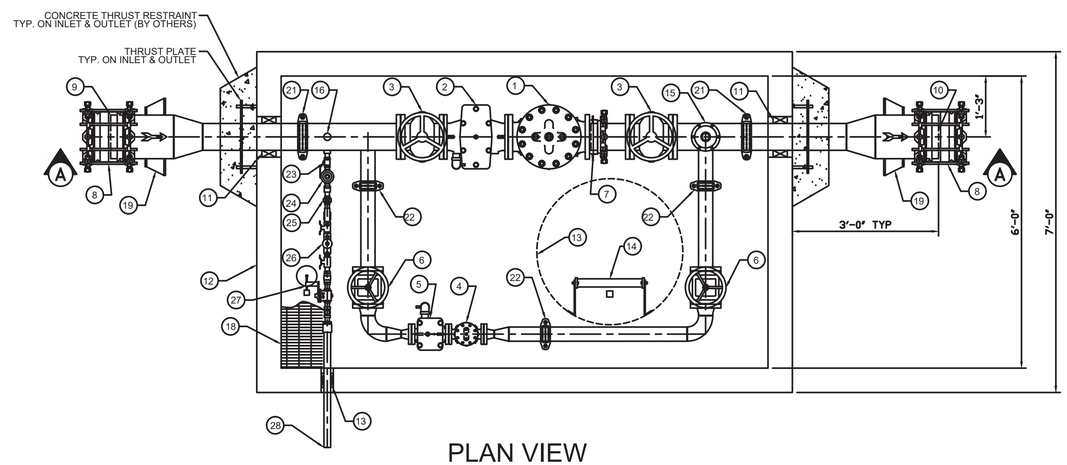
PRESSURE RELIEF VALVE 2
STA 49+56

DRAWING NO. ##### OF 91
DT4

LAYOUT: DT4 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Sves\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:51:02 AM



PROFILE A-A



PLAN VIEW

NOTES: FABRICATED STEEL PIPE AND FITTINGS ARE SCHEDULE 40 FOR SIZES UP TO 10" AND STANDARD WALL FOR 12" AND LARGER.

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REV	DATE	DESCRIPTION
0	6/27/25	FOR REVIEW

TITLE: 6" X 1.5" PRV CHAMBER PACKAGE (10" IN/OUT)

PROJECT: CENTRALIA, WA
SEMINARY HILL PRESSURE ZONE #3

PAGE: 1 OF 1 | EPS08320

SCALE: NTS

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED BY OTHER
DRAWN BY OTHER
CHECKED #####
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-DT5
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG — STATE OF WASHINGTON — 20287 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

PRESSURE RELIEF VALVE 3
STA 181+50

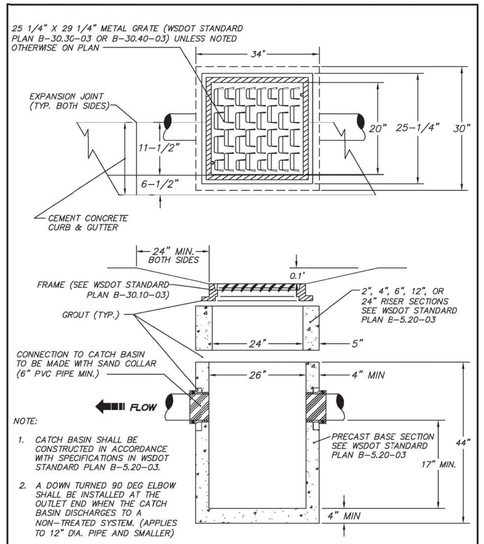
DRAWING NO. ##### OF 91
DT5

LAYOUT: DT5 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toylokat DATE: Thursday, September 4, 2025 9:52:22 AM

STORM DRAINAGE INSTALLATION GENERAL NOTES

1. All workmanship and materials shall be in accordance with City of Centralia Standards and the most current copy of the WSDOT/APWA Standard Specifications for Road, Bridge and Municipal Construction.
2. Temporary erosion/pollution measures shall be required for the duration of the project.
3. The contractor must comply with all permits and other requirements of the City of Centralia or other governing authority or agency.
4. A preconstruction meeting shall be held with the City of Centralia prior to the start of staking.
5. All storm sewer mains, appurtenances and retention/detention areas shall be staked for grade and alignment by an engineering or surveying firm capable of performing such work. All vertical control shall be established using the 1988 USGS Datum. Staking shall be inspected by the City prior to the start of construction and shall be maintained throughout construction.
6. Storm drain pipe shall meet the following requirements (use only those which apply):
   A. Plain concrete pipe conforming to AASHTO M 86, Class 2.
   B. reinforced concrete pipe conforming to AASHTO M 170.
   C. PVC pipe conforming to ASTM D 3034 SDR 35, ASTM F 794 or ASTM F 679. Type 1 with joints and gaskets conforming to ASTM 3212 and ASTM F 477.
   D. Ductile iron pipe conforming to AWWA C 151, thickness class as shown on plans.
7. Special structures, oil/water separators and outlet controls shall be installed per plans and manufacturers recommendations.
8. Provide traffic control plan(s) as required in accordance with MUTCD.
9. Call the Underground Location Center at 1–800–424–5555 a minimum of 48 hours prior to any excavation.
10. Where connections require "field verifications", connection points will be exposed by the contractor and fittings field verified 48 hours prior to starting construction.
11. All Storm lines will be high–velocity cleaned and pressure tested in accordance with Division 7 of the WSDOT Standard Specifications prior to paving in conformance with the above–referenced specifications. (See Note 1). Hydrant flushing of lines is not an acceptable cleaning method.
12. Testing of the Storm main will include Television inspection of the main at the contractor's expense. Immediately prior to tv inspection enough water will be run down the line to flush it clean. Acceptance of the line will be made after tv inspection tape has been reviewed and approved by the inspector. A water test of all manholes is also required. Testing will take place after all underground utilities are installed and compaction of the roadway subgrade is completed.

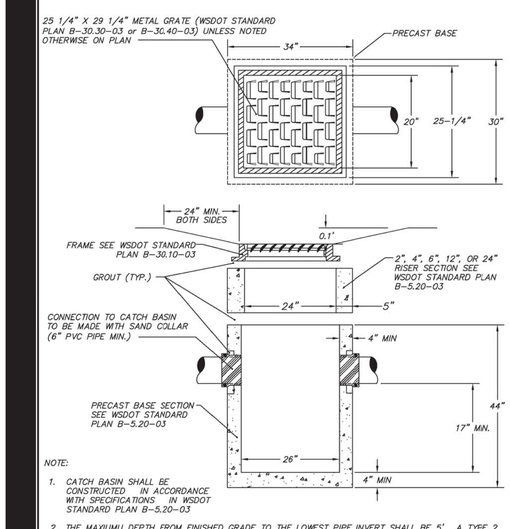
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	06/2017	STORM DRAINAGE INSTALLATION GENERAL NOTES	1 of 1
2022 Standard Drawings			



NOTE:

1. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS IN WSDOT STANDARD PLAN B–5.20–03.
2. A DOWN TURNED 90 DEG ELBOW SHALL BE INSTALLED AT THE OUTLET END WHEN THE CATCH BASIN DISCHARGES TO A NON–TREATED SYSTEM. (APPLIES TO 12" DIA. PIPE AND SMALLER)
3. THE MAXIUMU DEPTH FROM FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5'. A TYPE 2 CATCH BASIN IS REQUIRED WHERE DEPTH IS GREATER THAN 5'. SEE STANDARD DETAIL 9–03.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	11/2020	CATCH BASIN TYPE 1 IN PAVEMENT AREA	9–01
2022 Standard Drawings			



NOTE:

1. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS IN WSDOT STANDARD PLAN B–5.20–03
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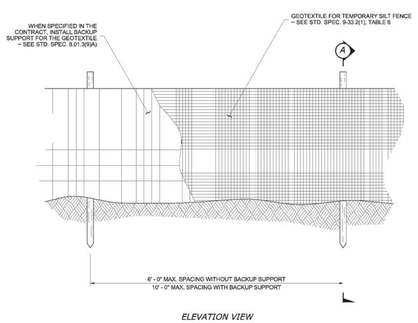
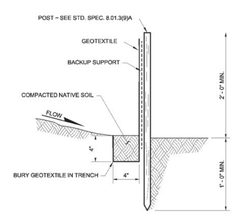
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	03/2024	CATCH BASIN TYPE 1 OUTSIDE PAVEMENT AREA	9–02
2022 Standard Drawings			



ELEVATION VIEW

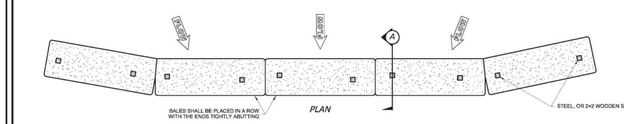
NOTES:

1. Maximize detention of stormwater by placing fence as far away from toe of slope as possible without encroaching on sensitive areas or outside of the clearing boundaries.
2. Install silt fencing along contours whenever possible.
3. Install the ends of the silt fence to point slightly up-slope to prevent sediment from flowing around the ends of the fence.
4. Perform maintenance in accordance with Standard Specifications 8.01.3(9)A and 8.01.3(15).



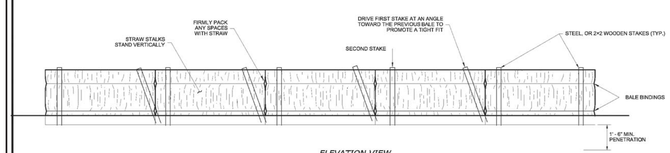
SECTION A

9–04 STD. PLAN NO.	APPROVED BY	REVISED DATE	CITY OF CENTRALIA
	CITY ENGINEER	06/2017	SILT FENCE
	2022 Standard Drawings		

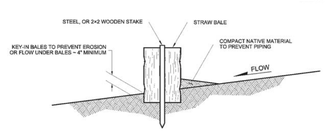


NOTES:

1. See Standard Specification 8-01.3(9)C, for additional information.
2. Perform maintenance in accordance with Standard Specification 8-01.3(15).

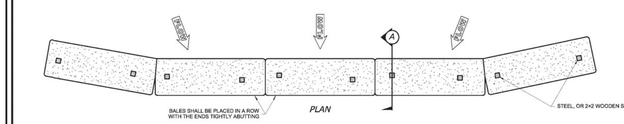


ELEVATION VIEW



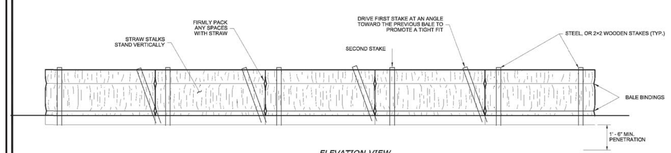
SECTION A

9–05 STD. PLAN NO.	APPROVED BY	REVISED DATE	CITY OF CENTRALIA
	CITY ENGINEER	06/2017	STRAW BALE BARRIER
	2022 Standard Drawings		

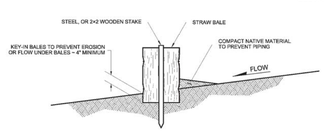


NOTES:

1. See Standard Specification 8-01.3(9)C, for additional information.
2. Perform maintenance in accordance with Standard Specification 8-01.3(15).



ELEVATION VIEW



SECTION A

9–05 STD. PLAN NO.	APPROVED BY	REVISED DATE	CITY OF CENTRALIA
	CITY ENGINEER	06/2017	STRAW BALE BARRIER
	2022 Standard Drawings		

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3–SD DT
JOB No. 216–3739–007 (PH2/3)
DATE SEPTEMBER 2025

PRELIMINARY
MICHAEL DANG
STATE OF WASHINGTON
56287
REGISTERED PROFESSIONAL ENGINEER

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

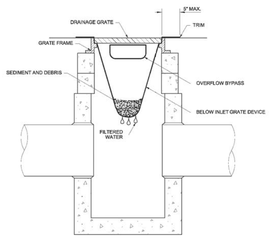
CITY OF CENTRALIA
STANDARD DETAILS 1

DRAWING NO.
OF 91
DT6

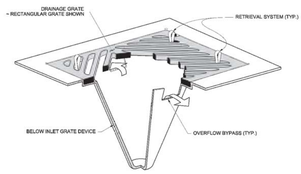
LAYOUT: DT6 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill Prelim\dwg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toyokat DATE: Thursday, September 4, 2025 9:54:34 AM

NOTES:

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).

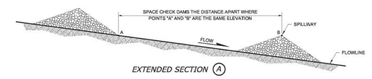


SECTION VIEW
NOT TO SCALE

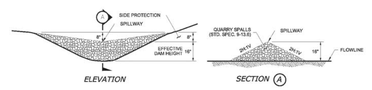


ISOMETRIC VIEW

STD. PLAN NO.	APPROVED BY	REVISED DATE	CITY OF CENTRALIA
9-06	CITY ENGINEER	06/2017	STORM DRAIN INLET PROTECTION
	2022 Standard Drawings		



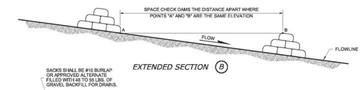
EXTENDED SECTION (A)



ELEVATION SECTION (A)

NOTE:
ROCK CHECK DAMS SHALL BE PLACED OUTSIDE OF THE CLEAR ZONE, OR BEHIND TRAFFIC BARRIER.

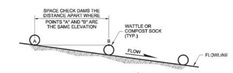
ROCK CHECK DAM



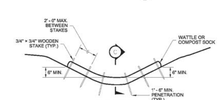
EXTENDED SECTION (B)

ELEVATION SECTION (B)

SANDBAG CHECK DAM



EXTENDED SECTION (C)



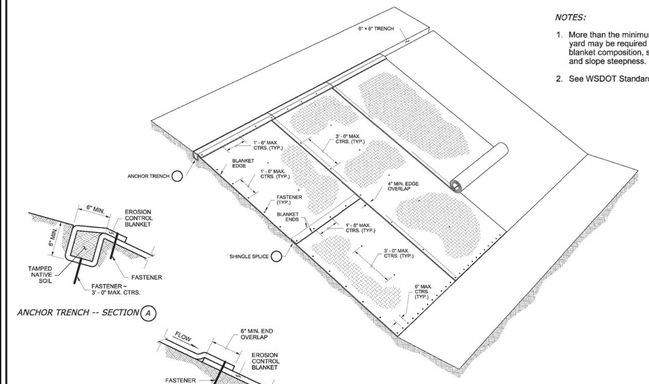
ELEVATION

WATTLE or COMPOST SOCK CHECK DAM

STD. PLAN NO.	APPROVED BY	REVISED DATE	CITY OF CENTRALIA
9-07	CITY ENGINEER	06/2017	CHECK DAMS
	2022 Standard Drawings		

NOTES:

1. More than the minimum of one fastener per square yard may be required due to conditions such as blanket composition, soil type, surface uniformity, and slope steepness.
2. See WSDOT Standard Specification 8-01.3(3).

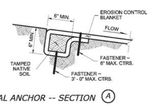


PERSPECTIVE VIEW

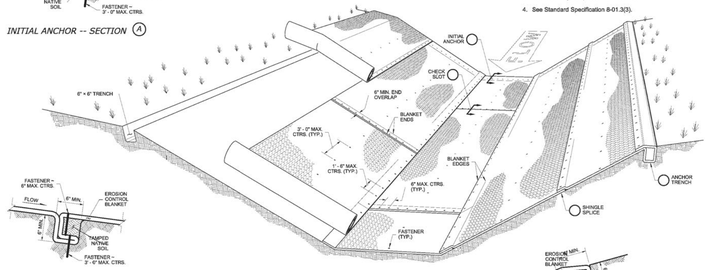
ANCHOR TRENCH -- SECTION (A)

SHINGLE SPLICE -- SECTION (B)

STD. PLAN NO.	APPROVED BY	REVISED DATE	CITY OF CENTRALIA
9-08	CITY ENGINEER	06/2017	EROSION CONTROL BLANKET PLACEMENT ON SLOPE
	2022 Standard Drawings		



INITIAL ANCHOR -- SECTION (A)



PERSPECTIVE VIEW

CHECK SLOT -- SECTION (B)

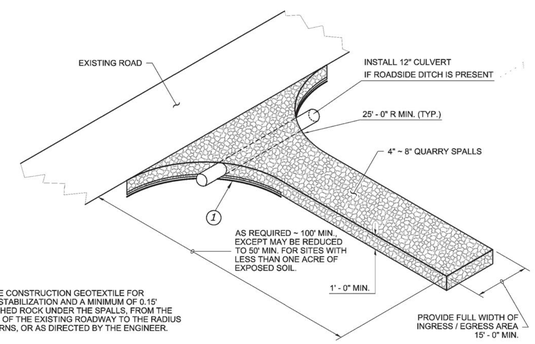
ANCHOR TRENCH -- SECTION (D)

SHINGLE SPLICE -- SECTION (C)

NOTES:

1. More than the minimum of one fastener per square yard may be required due to conditions such as blanket composition, soil type, surface uniformity, and flow velocity.
2. Provide Check Slots per manufacturer's recommendations.
3. Roll ends may be spliced in a check slot.
4. See Standard Specification 8-01.3(3).

STD. PLAN NO.	APPROVED BY	REVISED DATE	CITY OF CENTRALIA
9-09	CITY ENGINEER	06/2017	EROSION CONTROL BLANKET PLACEMENT IN CHANNEL
	2022 Standard Drawings		



1 PLACE CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION AND A MINIMUM OF 0.15' CRUSHED ROCK UNDER THE SPALLS, FROM THE EDGE OF THE EXISTING ROADWAY TO THE RADIUS RETURNS, OR AS DIRECTED BY THE ENGINEER.

ISOMETRIC VIEW

STD. PLAN NO.	APPROVED BY	REVISED DATE	CITY OF CENTRALIA
9-10	CITY ENGINEER	06/2017	TEMPORARY CONSTRUCTION ENTRANCE
	2022 Standard Drawings		

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-SD DT
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG STATE OF WASHINGTON 56287 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

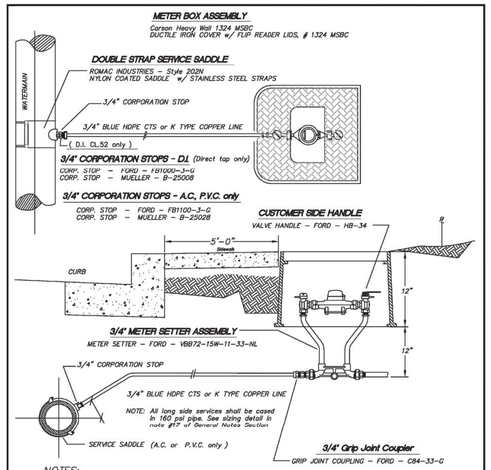
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

CITY OF CENTRALIA STANDARD DETAILS 2

DRAWING NO. ##### OF 91
DT7

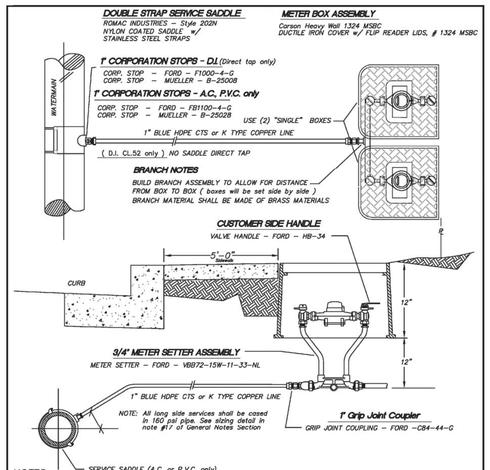
LAYOUT: DT7 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDesg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 9:54:56 AM



NOTES:

1. ALL SERVICE SADDLES SHALL HAVE RUBBER GASKET, I.P. THREADS AND NYLON COATED.
2. IN APPROVED SOIL SENSITIVE AREAS HDPE MAINS AND SERVICE LINES ARE REQUIRED. A TONING (tracer) WIRE, UL LISTED, TYPE UF, SOLID CORE, 12 GAUGE INSULATED COPPER IS REQUIRED. AN IDEAL TWISTER DB PLUS WIRE CONNECTOR, MODEL 60 IS REQUIRED TO CONNECT TRACER WIRES TOGETHER (i.e. tracer wire extension from spool to spool, service to main, main to main at intersections, and hydrant to main installations). Blue HDPE CTS shall be substituted for type K copper in service lines.
3. DUCTILE IRON MAINS SHALL BE DIRECT TAPPED ONLY
4. ASBESTOS CEMENT (A.C.) AND PVC MAINS SHALL REQUIRE A SADDLE FOR TAPPING
5. STAINLESS STEEL PIPE STIFFENERS ARE REQUIRED WHERE HDPE PIPE IS USED

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	02/2020	3/4" SINGLE METER SERVICE STANDARD	2-02
2022 Standard Drawings			



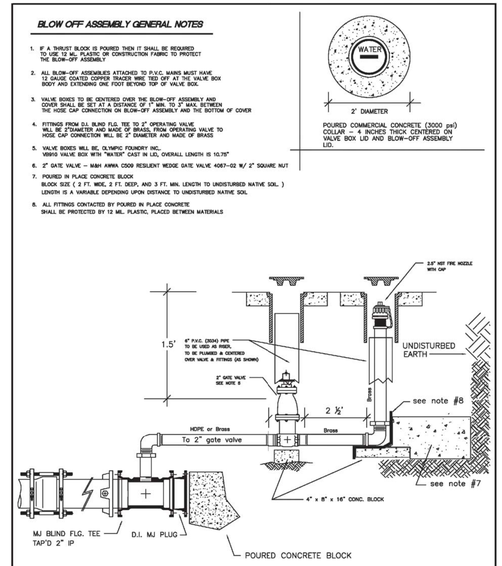
NOTES:

1. ALL SERVICE SADDLES SHALL HAVE RUBBER GASKET, I.P. THREADS AND NYLON COATED.
2. IN APPROVED SOIL SENSITIVE AREAS HDPE MAINS AND SERVICE LINES ARE REQUIRED. A TONING (tracer) WIRE, UL LISTED, TYPE UF, SOLID CORE, 12 GAUGE INSULATED COPPER IS REQUIRED. AN IDEAL TWISTER DB PLUS WIRE CONNECTOR, MODEL 60 IS REQUIRED TO CONNECT TRACER WIRES TOGETHER (i.e. trace wire extension from spool to spool, service to main, main to main at intersections, and hydrant to main installations). Blue HDPE CTS sched. 200 psi shall be substituted for type K copper in service lines.
3. DUCTILE IRON MAINS SHALL BE DIRECT TAPPED ONLY
4. ASBESTOS CEMENT (A.C.) AND PVC MAINS SHALL REQUIRE A SADDLE FOR TAPPING
5. STAINLESS STEEL PIPE STIFFENERS ARE REQUIRED WHERE HDPE PIPE IS USED

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	02/2020	3/4" - DUAL METER SERVICE STANDARD	2-06
2022 Standard Drawings			

BLOW OFF ASSEMBLY GENERAL NOTES

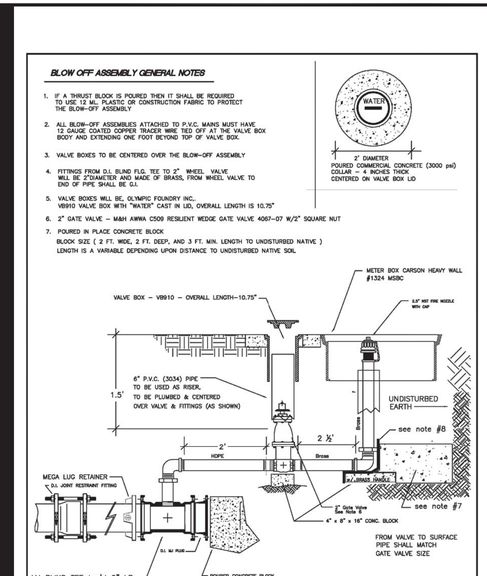
1. IF A THRUST BLOCK IS POURED THEN IT SHALL BE REQUIRED TO USE 12 ML. PLASTIC OR CONSTRUCTION FABRIC TO PROTECT THE BLOW-OFF ASSEMBLY
2. ALL BLOW-OFF ASSEMBLIES ATTACHED TO P.V.C. MAINS MUST HAVE 12 GAUGE COATED COPPER TRACER WIRE TIED OFF AT THE VALVE BOX BODY AND EXTENDING ONE FOOT BEYOND TOP OF VALVE BOX.
3. VALVE BOXES TO BE CENTERED OVER THE BLOW-OFF ASSEMBLY AND WILL BE 2"DIAMETER AND MADE OF BRASS, FROM OPERATING VALVE TO HOSE CAP CONNECTION WILL BE 2" DIAMETER AND MADE OF BRASS
4. FITTINGS FROM D.I. BLIND FLG. TEE TO 2" OPERATING VALVE WILL BE 2"DIAMETER AND MADE OF BRASS, FROM OPERATING VALVE TO HOSE CAP CONNECTION WILL BE 2" DIAMETER AND MADE OF BRASS
5. VALVE BOXES WILL BE, OLYMPIC FOUNDRY INC., VB910 VALVE BOX WITH "WATER" CAST IN LID, OVERALL LENGTH IS 10.75"
6. 2" GATE VALVE – M&H AWWA C509 RESILIENT WEDGE GATE VALVE 4067–02 W/ 2" SQUARE NUT
7. POURED IN PLACE CONCRETE BLOCK
   BLOCK SIZE (2 FT. WIDE, 2 FT. DEEP, AND 3 FT. MIN. LENGTH TO UNDISTURBED NATIVE SOIL)
   LENGTH IS A VARIABLE DEPENDING UPON DISTANCE TO UNDISTURBED NATIVE SOIL
8. ALL FITTINGS CONTACTED BY POURED IN PLACE CONCRETE SHALL BE PROTECTED BY 12 ML. PLASTIC, PLACED BETWEEN MATERIALS



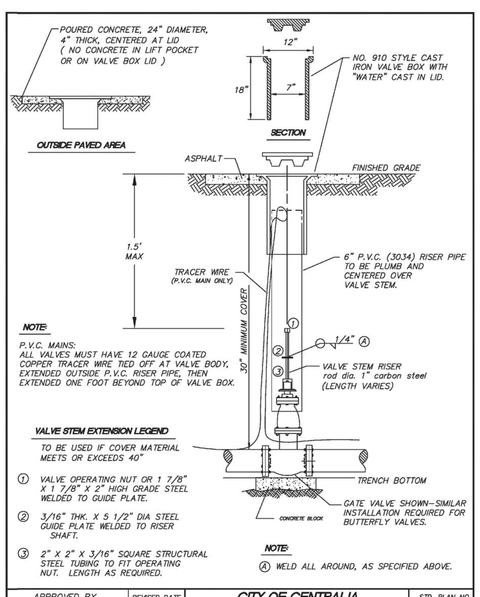
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2023	2" BLOW-OFF ASSEMBLY IN PAVEMENT AREAS	2-08
2022 Standard Drawings			

BLOW OFF ASSEMBLY GENERAL NOTES

1. IF A THRUST BLOCK IS POURED THEN IT SHALL BE REQUIRED TO USE 12 ML. PLASTIC OR CONSTRUCTION FABRIC TO PROTECT THE BLOW-OFF ASSEMBLY
2. ALL BLOW-OFF ASSEMBLIES ATTACHED TO P.V.C. MAINS MUST HAVE 12 GAUGE COATED COPPER TRACER WIRE TIED OFF AT THE VALVE BOX BODY AND EXTENDING ONE FOOT BEYOND TOP OF VALVE BOX.
3. VALVE BOXES TO BE CENTERED OVER THE BLOW-OFF ASSEMBLY
4. FITTINGS FROM D.I. BLIND FLG. TEE TO 2" WHEEL VALVE WILL BE 2"DIAMETER AND MADE OF BRASS, FROM WHEEL VALVE TO END OF PIPE SHALL BE D.I.
5. VALVE BOXES WILL BE, OLYMPIC FOUNDRY INC., VB910 VALVE BOX WITH "WATER" CAST IN LID, OVERALL LENGTH IS 10.75"
6. 2" GATE VALVE – M&H AWWA C509 RESILIENT WEDGE GATE VALVE 4067–07 W/2" SQUARE NUT
7. POURED IN PLACE CONCRETE BLOCK
   BLOCK SIZE (2 FT. WIDE, 2 FT. DEEP, AND 3 FT. MIN. LENGTH TO UNDISTURBED NATIVE SOIL)
   LENGTH IS A VARIABLE DEPENDING UPON DISTANCE TO UNDISTURBED NATIVE SOIL



APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2023	2" BLOW-OFF ASSEMBLY NON PAVEMENT AREAS	2-08-A
2022 Standard Drawings			



NOTE:

P.V.C. MAINS:
ALL VALVES MUST HAVE 12 GAUGE COATED COPPER TRACER WIRE TIED OFF AT VALVE BODY, EXTENDED OUTSIDE P.V.C. RISER PIPE, THEN EXTENDED ONE FOOT BEYOND TOP OF VALVE BOX.

VALVE STEM EXTENSION LEGEND

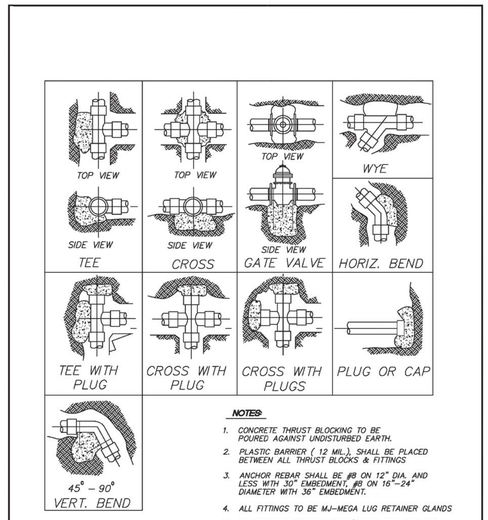
TO BE USED IF COVER MATERIAL MEETS OR EXCEEDS 40"

1. VALVE OPERATING NUT OR 1 7/8" X 1 7/8" X 2" HIGH GRADE STEEL WELDED TO GUIDE PLATE.
2. 3/16" THK. X 5 1/2" DIA STEEL GUIDE PLATE WELDED TO RISER SHAFT.
3. 2" X 2" X 3/16" SQUARE STRUCTURAL STEEL TUBING TO FIT OPERATING NUT. LENGTH AS REQUIRED.

NOTE:

(A) WELD ALL AROUND, AS SPECIFIED ABOVE.

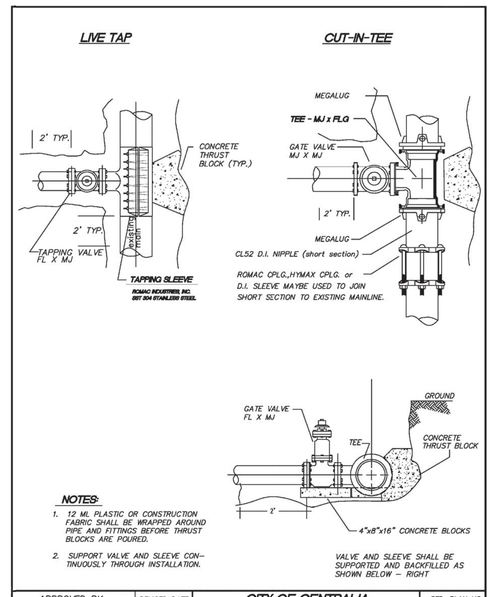
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	02/2020	STANDARD VALVE BOX	2-09
2022 Standard Drawings			



NOTES:

1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. PLASTIC BARRIER (12 MIL.), SHALL BE PLACED BETWEEN ALL THRUST BLOCKS & FITTINGS
3. ANCHOR REBAR SHALL BE #8 ON 12" DIA. AND LESS WITH 30" EMBEDMENT, #8 ON 16"–24" DIAMETER WITH 36" EMBEDMENT.
4. ALL FITTINGS TO BE MJ–MEGA LUG RETAINER GLANDS
5. PLUGS TO BE MINIMUM OF 5' FROM TEE, WYE OR CROSS ON VALVE
6. ALL MECHANICAL BOLTS TO FITTINGS SHALL HAVE ANTI–SEIZE COMPOUND APPLIED TO THE BOLTS
7. NO CONCRETE WILL COME IN CONTACT WITH ANY MECHANICAL JOINTS

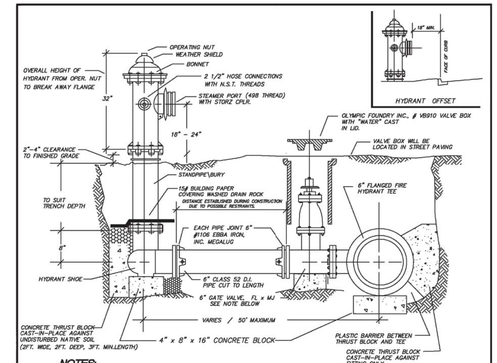
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	STANDARD BLOCKING DETAIL	2-10
2022 Standard Drawings			



NOTES:

1. 12 ML. PLASTIC OR CONSTRUCTION FABRIC SHALL BE WRAPPED AROUND PIPE AND FITTINGS BEFORE THRUST BLOCKS ARE POURED.
2. SUPPORT VALVE AND SLEEVE CON–TINUOUSLY THROUGH INSTALLATION.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	LIVE TAP & CUT-IN-TEE STANDARD	2-11
2022 Standard Drawings			



NOTES:

1. HYDRANTS SHALL BE LOCATED WITH A MINIMUM FIVE FOOT RADIUS UNOBSTRUCTED WORKING AREA PROVIDED, AND IN NO CASE SHALL BE LOCATED IN SIDEWALK.
2. HYDRANT SHALL BE WATEROUS CLASSIC PACER WB67–250, DRESSER M&H RELIANT STYLE 129 OR MUELLER CENTURION CHECK VERTICAL DISTANCE BETWEEN OPERATING NUT AND BREAK AWAY FLANGE (31–32 inches).
3. HYDRANTS SHALL BE PAINTED SUNBURST YELLOW – HIGH GRADE ENAMEL, AFTER INSTALLATION
4. HYDRANTS SHALL HAVE A MINIMUM BURY OF 30 INCHES
3. GATE VALVES SHALL BE RESILIENT WEDGE NRS WITH O–RING SEALS. VALVE ENDS SHALL BE MECHANICAL JOINT BY ANSI FLANGES. VALVES SHALL CONFORM TO AWWA C515.
5. FILTER FABRIC MATERIAL SHALL BE USED IN CONJUNCTION WITH THE USE OF DRAIN ROCK. THE APPLICATION OF THE FILTER FABRIC MATERIAL SHALL MINIMIZE THE IMPACT OF THE NATIVE SOIL IN THE FUNCTION OF THE DRAIN ROCK.
6. ALL MECHANICAL BOLTS TO FITTINGS SHALL HAVE ANTI–SEIZE COMPOUND APPLIED TO THE BOLTS
7. POURED IN PLACE CONCRETE BLOCKING, BLOCK SIZE – (2 FT. WIDE, 2 FT. DEEP, AND 2 FT. MIN. LENGTH TO UNDISTURBED NATIVE SOIL – NOTE LENGTH IS A VARIABLE DEPENDING UPON DISTANCE TO UNDISTURBED NATIVE SOIL.
8. ALL HYDRANTS SHALL HAVE EPOXY COATED SHOE.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	01/2024	FIRE HYDRANT DETAIL	2-12
2022 Standard Drawings			

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3–WA DT
JOB No. 216–3739–007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG, STATE OF WASHINGTON, 52287, REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

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1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

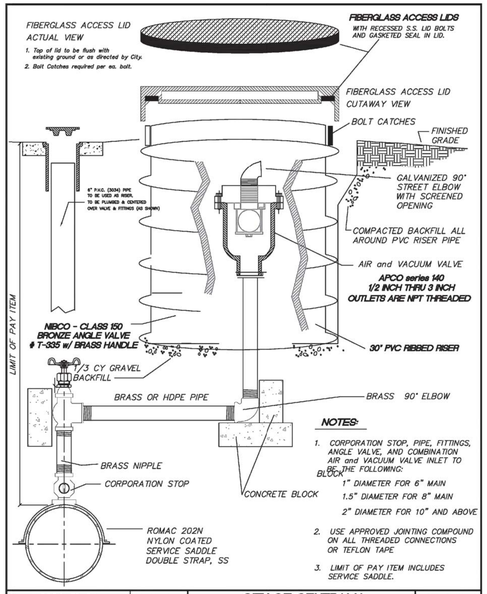
PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

CITY OF CENTRALIA
STANDARD DETAILS 3

DRAWING NO.
OF 91
DT8

LAYOUT: DT8 PATH: U:\PSO\Projects\Clients\3739–City of Centralia\216–3739–007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: toykokat DATE: Thursday, September 4, 2025 10:03:19 AM



NOTES:

1. CORPORATION STOP, PIPE, FITTINGS, ANGLE VALVE, AND COMBINATION AIR and VACUUM VALVE INLET TO BE THE FOLLOWING:
   - 1" DIAMETER FOR 6" MAIN
   - 1.5" DIAMETER FOR 8" MAIN
   - 2" DIAMETER FOR 10" AND ABOVE
2. USE APPROVED JOINTING COMPOUND ON ALL THREADED CONNECTIONS OR TEFLON TAPE
3. LIMIT OF PAY ITEM INCLUDES SERVICE SADDLE.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	AIR and VACUUM VALVE ASSEMBLY	2-13
2022 Standard Drawings			

THRUST LOADS

THRUST AT FITTINGS IN POUNDS AT 200 POUNDS PER SQUARE INCH OF WATER PRESSURE

PIPE DIAMETER	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	DEAD END OR TEE
4"	3,600	2,000	1,000	500	2,600
6"	8,000	4,400	2,300	1,200	5,700
8"	14,300	7,700	4,000	2,000	10,100
10"	22,300	12,100	6,200	3,100	15,800
12"	32,000	17,400	8,900	4,500	22,700
14"	43,600	23,600	12,100	6,100	30,800
16"	57,000	30,800	15,700	7,900	40,300

NOTES:

1. BLOCKING SHALL BE CEMENT CONCRETE CLASS "B" POURED IN PLACE AGAINST UNDISTURBED EARTH. FITTING SHALL BE ISOLATED FROM CONCRETE THRUST BLOCK WITH PLASTIC OR SIMILAR MATERIAL.
2. TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (S.F.):
   EXAMPLE: 12" – 90 DEG. BEND IN SAND AND GRAVEL
   32,000 LBS : 3000 LB/S.F. = 10.7 S.F. OF AREA
3. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZE, PRESSURES AND SOIL CONDITIONS.
4. BLOCKING SHALL BE ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
5. BLOCKING FOR PIPES LESS THAN 4" DIA. WILL USE 4" PIPE VALUES.

SAFE SOIL BEARING LOADS

FOR HORIZONTAL THRUSTS WHEN THE DEPTH OF COVER OVER THE PIPE EXCEEDS 2 FEET

SOIL	POUNDS PER SQUARE FOOT
MUCK,PEAT	0
SOFT CLAY	1,000
SAND	2,000
SAND & GRAVEL	3,000
SAND & GRAVEL CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	THRUST LOADS	2-18
2022 Standard Drawings			

WATER MAIN INSTALLATION GENERAL NOTES

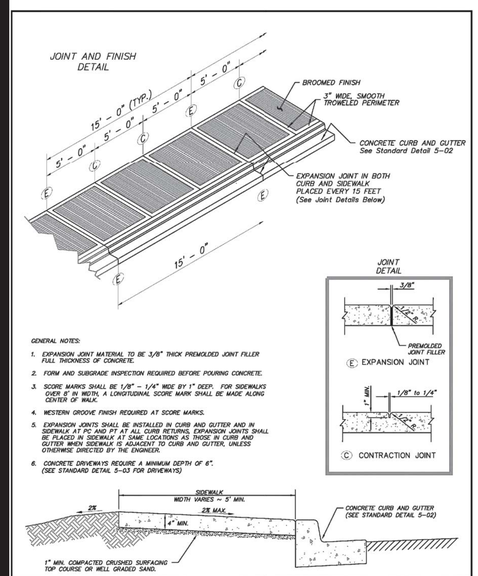
1. All workmanship and material shall be in accordance with the City of Centralia standards and the most current copy of the State of Washington Specifications for Road, Bridge and Municipal Construction, Washington Department of Health regulations and American Water Works Association standards.
2. All water lines 12" and larger shall be made of ductile iron, thickness class 52 and a rated working pressure of 350 PSI conforming to AWWA C151. All pipe shall be cement mortar lined per AWWA C104 with push on joints conforming to AWWA C111. Water lines under 12" diameter may be P.V.C. C-900 DR14.
3. Fittings shall be class 250 cement mortar lined ductile iron with mechanical joint or ANSI flanges. All bolted fittings shall be dressed with an Anti-Seize product for protection. All ductile iron fitting connection(s) shall be completed by the use of mega-lugs. When connecting to an existing inline water main, all connections will be made using a Ductile Iron (DI) sleeve, with mega-lugs, or Romac Alpha coupling except when connecting to a AC main where a Hymax coupler (or equal) will be used. All fittings will use 304A or better stainless steel bolts
4. Gate valves shall be resilient wedge, NRS (Non-Rising Stem) with O-ring seals. Valve ends shall be mechanical joint or ANSI flanges. Valves shall conform to AWWA (latest) 509 std. Valves shall be Mueller, M & H, Clow, Waterous, Kennedy or American AVK. Existing valves shall be operated by City employees only.
5. All NIBCO Gate Valves must have brass handles.
6. A valve stem riser shall be installed on all valves where the depth from finish grade to the top of the valve exceeds 1.5'.
7. Fire hydrants shall be 3-port M & H Reliant Style 129, Mueller Centurion, 5 1/4" with steamer port thread of 498. The distance between operating nut and break away flange shall be 32 inches in vertical measurement. All hydrant shoes shall be epoxy coated. Each hydrant shall be provided with a Storz coupler on the steamer port. All hydrants shall be bagged until system is approved.
8. Brass wedges shall be installed in all ductile iron joints for continuity, two (2) per section of pipe. P.V.C. pipe, C.T.S. HDPE sch. 200 psi pipe shall be installed with a toning (tracer) wire. Toning wire shall be UL listed, type UF, solid core, 12 gauge insulated copper and shall be taped to the top of the pipe to prevent movement during backfilling. The wire shall be laid loosely enough to prevent stretching and damage. The wire shall be brought up and tied off at valve body or meter setting.
9. The contractor shall maintain a min. cover of 30 inches and a max. cover of 36 inches over the pipe at all times.
10. All water mains shall be staked for grade and alignment by the design engineer or a licensed land surveyor. All vertical control shall be established using the 1988 USGS Datum.
11. All new water mains shall be filled and chlorinated for a minimum of 24 hrs prior to flushing. Contractor shall coordinate with the City to have lines filled and flushed.
12. Bacteria sampling of potable water lines shall be performed by the City prior to hydrostatic pressure testing. Contractor shall provide an approved sampling bottle from the Lewis County Health Dept., 360 NW North St, Chehalis, WA 98532
13. All pipe and appurtenances shall be hydrostatically tested at 225 PSI (min.) for 15 minutes and witnessed by the City. Fire line testing behind the metering vault shall be coordinated with Riverside Fire authority.
14. Service lines of 3/4" and 1" shall be type "K" copper or copper tubing size (C.T.S.) Blue HDPE Polyethylene, 200 psi pipe. Galvanized fittings shall not be used in construction of service lines.
    Note: In soil sensitive areas, service lines may be constructed of HDPE-cl200psi. Toning (tracer) wire is required when using HDPE pipe water mains/services. Services larger than 1" may be Blue HDPE or brass.
15. For any water main tap to existing City mains where the contractor encounters a coupling or existing assemblies, the contractor shall provide a minimum of 18" of clearance from coupling or assemblies to edge of tapping sleeve and the tapping process shall be witnessed by the City with 2 days prior notice.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	08/2024	WATER MAIN INSTALLATION GENERAL NOTES	1 OF 2
2022 Standard Drawings			

WATER MAIN INSTALLATION GENERAL NOTES

16. Where the water line crosses a sanitary sewer, the water line shall be above the sewer line whenever possible, with a separation of at least 18 inches between the invert of the water line and the crown of the sewer pipe. If this criteria can not be achieved the sewer pipe shall be cased within ductile iron pipe for a distance of 10 feet either side of the water line.
17. All "LONG SIDE SERVICES" shall be cased in 160 psi pipe.
18. Water services noted as "long side" shall require a schedule 160 PVC pipe as a casing to cross the R.O.W.
    3/4" service – casing dia. 1.5" 1.5" service – casing dia. 3"
    1" service – casing dia. 2" 2" service – casing dia. 3"
19. ALL ASBESTOS PIPE WORKMANSHIP MUST FOLLOW THE GUIDE LINES SET FORTH BY THESE AGENCIES: Southwest Washington Air Pollution Control Authority (SWAPCA) and Labor and Industries (L&I).
20. Call the Underground Location Center at 1-800-424-5555 or 811 at least 48 hours before any excavation.

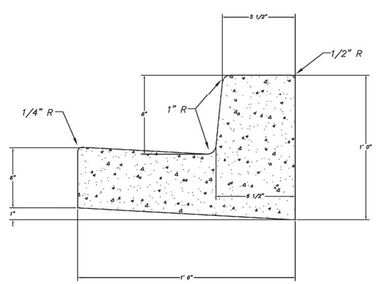
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	08/2024	WATER MAIN INSTALLATION GENERAL NOTES	2 OF 2
2022 Standard Drawings			



GENERAL NOTES:

1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. SCORE MARKS SHALL BE 1/8" – 1/4" WIDE BY 1" DEEP. FOR SIDEWALKS OVER 8' IN WIDTH, A LONGITUDINAL SCORE MARK SHALL BE MADE ALONG CENTER OF WALK.
4. WESTERN GROOVE FINISH REQUIRED AT SCORE MARKS.
5. EXPANSION JOINTS SHALL BE INSTALLED IN CURB AND GUTTER AND IN SIDEWALK AT PC AND PT AT ALL CURB RETURNS. EXPANSION JOINTS SHALL BE PLACED IN SIDEWALK AT SAME LOCATIONS AS THOSE IN CURB AND GUTTER WHEN SIDEWALK IS ADJACENT TO CURB AND GUTTER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. CONCRETE DRIVEWAYS REQUIRE A MINIMUM DEPTH OF 8". (SEE STANDARD DETAIL 5-03 FOR DRIVEWAYS)

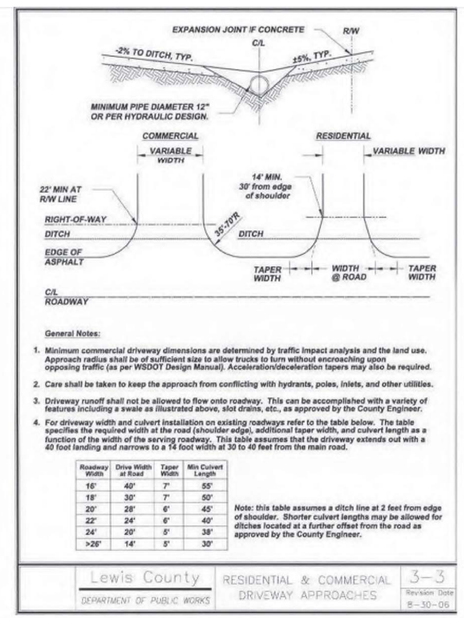
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	SIDEWALK DETAILS	5-01
2022 Standard Drawings			



GENERAL NOTES:

1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE. SEE SIDEWALK DETAILS (5-01) FOR EXPANSION JOINT SPACING.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	06/2017	CEMENT CONCRETE CURB and GUTTER	5-02
2022 Standard Drawings			



General Notes:

1. Minimum commercial driveway dimensions are determined by traffic impact analysis and the land use. Approach radius shall be of sufficient size to allow trucks to turn without encroaching upon opposing traffic (as per WSDOT Design Manual). Acceleration/deceleration tapers may also be required.
2. Care shall be taken to keep the approach from conflicting with hydrants, poles, inlets, and other utilities.
3. Driveway runoff shall not be allowed to flow onto roadway. This can be accomplished with a variety of features including a swale as illustrated above, slot drains, etc., as approved by the County Engineer.
4. For driveway width and culvert installation on existing roadways refer to the table below. The table specifies the required width at the road (shoulder edge), additional taper width, and culvert length as a function of the width of the serving roadway. This table assumes that the driveway extends out with a 40 foot landing and narrows to a 14 foot width at 30 to 40 feet from the main road.

Roadway Width	Drive Width at Road	Taper Width	Min Culvert Length
16'	40'	7'	55'
18'	30'	7'	50'
20'	28'	6'	45'
22'	24'	6'	40'
24'	20'	5'	38'
>26'	14'	5'	30'

Note: this table assumes a ditch line at 2 feet from edge of shoulder. Shorter culvert lengths may be allowed for ditches located at a further offset from the road as approved by the County Engineer.

Lewis County DEPARTMENT OF PUBLIC WORKS	RESIDENTIAL & COMMERCIAL DRIVEWAY APPROACHES	3-3 Revision Date 8-30-06

S:\COMMUNITY DEVELOPMENT\Applications & Forms\Currently on Website — Updated January 2025

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

▷	REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-WA DT
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG — STATE OF WASHINGTON — 55287 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

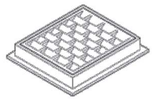
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

CITY OF CENTRALIA STANDARD DETAILS 4

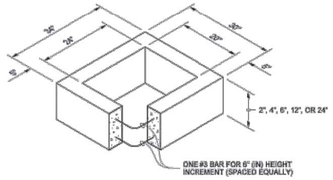
DRAWING NO. ##### OF 91
DT9

LAYOUT: DT9 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 10:03:32 AM

DRAWN BY: FERN LIDDELL



FRAME AND VANED GRATE



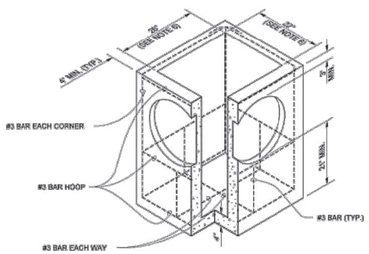
RECTANGULAR ADJUSTMENT SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	12'
ALL METAL PIPE	15'
CPSSP ★ (STD. SPEC. SECT. 9-05.20)	12'
SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	15'
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	15'

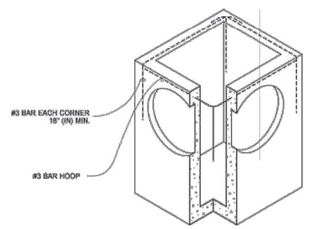
★ CORRUGATED POLYETHYLENE STORM SEWER PIPE

NOTES

1. As acceptable alternatives to the rebar shown in the **PRECAST BASE SECTION**, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the **ALTERNATIVE PRECAST BASE SECTION**. Wire mesh shall not be placed in the knockouts.
2. The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard Specification Section 9-04.3**.
3. The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
6. The opening shall be measured at the top of the **Precast Base Section**.
7. All pickup holes shall be grouted full after the basin has been placed.



PRECAST BASE SECTION



(SEE NOTE 1)

ALTERNATIVE PRECAST BASE SECTION

Julie Heilman
2020.09.01 07:52:50 -07'00'

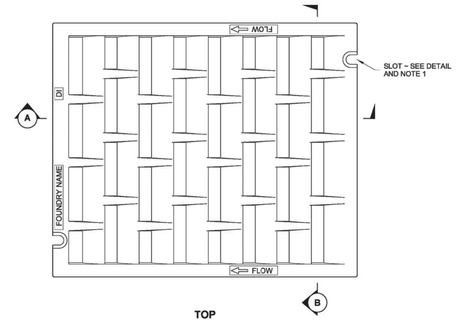
CATCH BASIN TYPE 1

STANDARD PLAN B-5.20-03

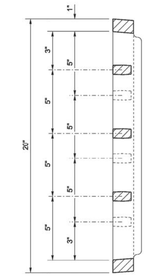
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Roark, Steve — Digitally signed by Roark, Steve, Date: 2020.09.09 09:45:23 -07'00'
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



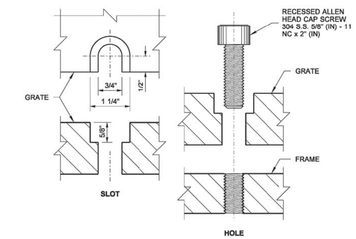
TOP



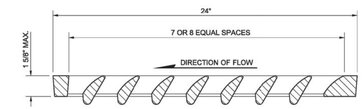
SECTION (B)

NOTES

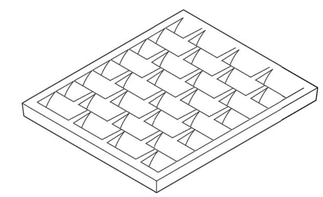
1. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC × 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.
2. Refer to **Standard Specification Section 9-05.15** and **9-05.15(2)** for additional requirements.
3. For frame details, see **Standard Plan B-30.10**.



BOLT-DOWN DETAILS
SEE NOTE 1



SECTION (A)



ISOMETRIC

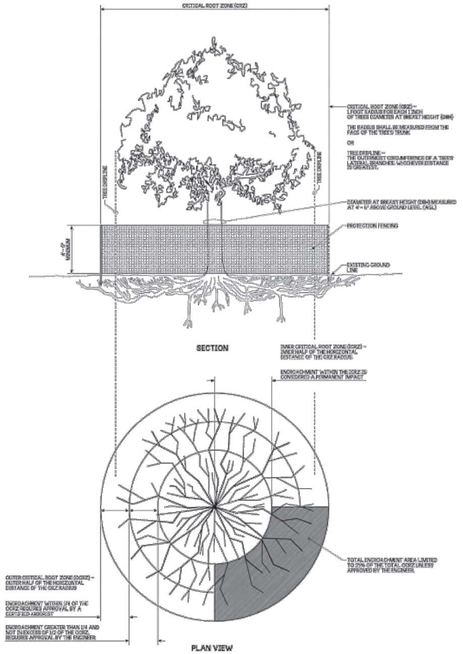
Heilman, Julie
Feb 20 2018 12:54 PM

RECTANGULAR VANED GRATE

STANDARD PLAN B-30.30-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff
Feb 27 2018 7:26 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation



NOTES:

1. Limits of protection fencing shall extend to the greatest distance from protected trees trunk as needed to perform the work.
2. Adjustments to the critical root zone require certified arborist approval. Encroachments within the identified critical root zone requires review approval by a certified arborist.
3. Protection fencing shown on plans is diagrammatic. All protection fencing locations shall be field verified by the Engineer prior to installation.
4. Protection fencing shall be inspected by the Engineer after installation for final approval.
5. Protection measures shall remain intact at all times during construction unless directed otherwise by the Engineer.
6. See Section 1-07.16(2) for additional protection measures.

STATE OF WASHINGTON — JULIE SEE HARTWIG — LICENSED LANDSCAPE ARCHITECT — 1422
Jul Hartwig
May 31, 2024

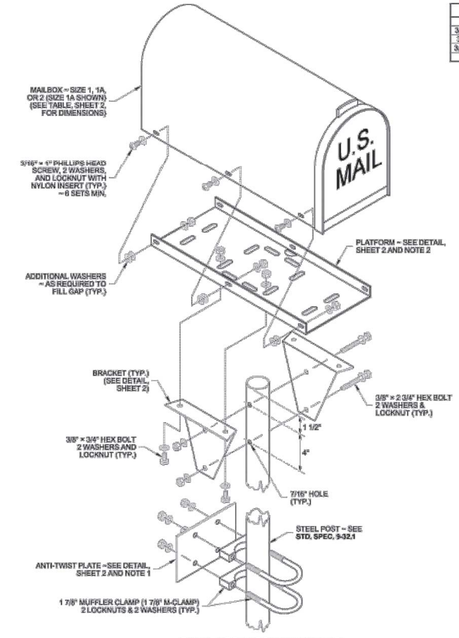
TREE PROTECTION DETAIL

STANDARD PLAN H-10.11-00

SHEET 1 OF 1 SHEET

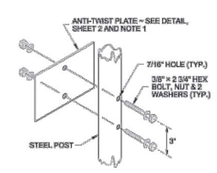
APPROVED FOR PUBLICATION
Jun 2, 2024
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: MARK ELLAKA



STEEL POST ASSEMBLY DETAIL

STEEL POST FASTENERS			
SIZE / TYPE	QUANTITY	WASHERS	LOCKNUTS
3/8" DIAM. × 2 3/4" BOLT	2	4	2
3/8" DIAM. × 3/4" BOLT	4	8	4
5/16" DIAM. × 1" SCREW	6	12	6
1 7/8" M-CLAMP	2	4	4



ALTERNATE ANTI-TWIST PLATE DESIGN

NOTES

1. The anchoring system shall meet MASH crash test criteria. The anti-twist plate anchoring system shown on this plan is deemed MASH compliant by WSDOT.

   The V-Wing socket and wedge assembly in a concrete base shown on **Std. Plan H-70.20** is also deemed MASH compliant by WSDOT and may be substituted in lieu of the anti-twist plate designs shown.

   Other MASH compliant anchoring systems manufactured by or recommended by the Type 1 support manufacturer are allowed to be used in lieu of the anti-twist plate or V-wing socket and wedge assembly.
2. The platform design shown on this plan features slots that accommodate several types of mailbox supports; only those slots necessary for assembling the type being installed are required. An adjustable platform may be used in lieu of this design, but it must fit the bracket design shown on this plan. Brackets are required for all single-post installations. Field drilling may be necessary.
3. Center the mailbox on the platform to ensure space for the mailbox door to open and to allow space for installing the fasteners (see ALIGNMENT DETAIL, Sheet 2). Spacing of mailbox mounting holes varies among manufacturers. Attachment of the mailbox to the platform may require drilling additional holes through the mailbox to fit the platform.
4. Attach a newspaper box to a steel post with two 1 7/8" (in) Muffler Clamps spaced 4" (in) apart. Field drill 7/16" (in) holes in the newspaper box to fit. Newspaper boxes must not extend beyond the front of the mailbox when the mailbox door is closed.
5. A Type 2 Support (**Standard Plan H-70.20**) is required when 2 or more mailboxes are to be installed on one support.

JOHN PATRICK DONAHUE — STATE OF WASHINGTON — 53022 — REGISTERED PROFESSIONAL ENGINEER
Aug 17, 2021

MAILBOX SUPPORT TYPE 1

STANDARD PLAN H-70.10-02

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Aug 17, 2021
STATE DESIGN ENGINEER
Washington State Department of Transportation

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

MICHAEL DANG — STATE OF WASHINGTON — 50287 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R.RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3–WSDOT DT
JOB No. 216–3739–007 (PH2/3)
DATE SEPTEMBER 2025

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

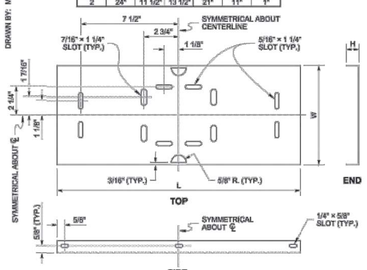
WSDOT STANDARD DETAILS 1

DRAWING NO. ##### OF 91
DT10

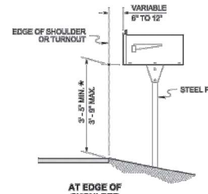
LAYOUT: DT10 PATH: U:\PSO\Projects\Clients\3739–City of Centralia\216–3739–007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 10:06:58 AM

DRAWN BY: MARK GILIOKA

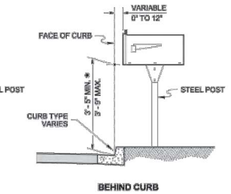
MAILBOX & PLATFORM DIMENSIONS						
SIZE	MAILBOX DIMENSIONS			PLATFORM DIMENSIONS		
	L	W	H	L	W	H
1	19"	6 1/2"	8 1/2"	17"	6"	1"
1A	21"	8"	10 1/2"	19"	7 1/2"	1"
2	24"	11 1/2"	13 1/2"	21"	11"	1"



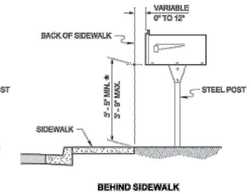
PLATFORM DETAIL



AT EDGE OF SHOULDER



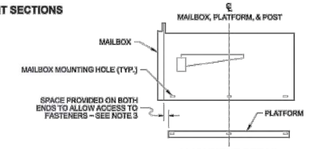
BEHIND CURB



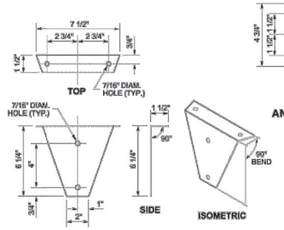
BEHIND SIDEWALK

* UNLESS OTHERWISE SHOWN IN THE PLANS

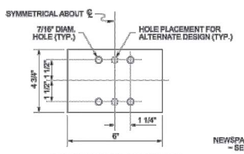
MAILBOX PLACEMENT SECTIONS



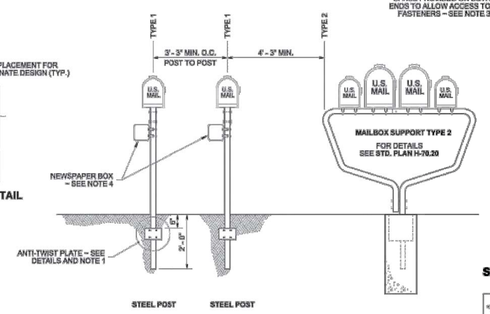
ALIGNMENT DETAIL



BRACKET DETAIL



ANTI-TWIST PLATE DETAIL



POST PLACEMENT DETAIL

EDWARD PATRICK BARRY
STATE OF WASHINGTON
36287
REGISTERED
PROFESSIONAL ENGINEER
Aug 17, 2021

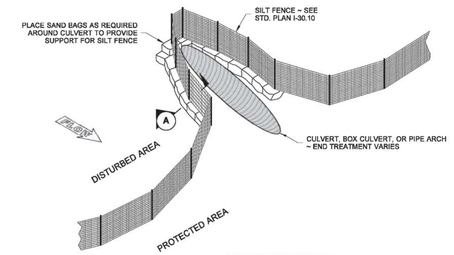
MAILBOX SUPPORT TYPE 1

STANDARD PLAN H-70.10-02

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Aug 17, 2021
STATE DESIGN ENGINEER
Washington State Department of Transportation

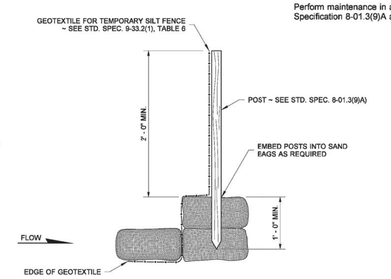
DRAWN BY: LISA CYFORD



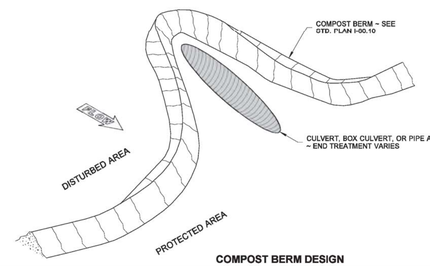
SILT FENCE DESIGN

NOTE

Perform maintenance in accordance with Standard Specification 8-01.3(9)A and 8-01.3(15).



SECTION A



COMPOST BERM DESIGN

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
MARK W. MAURER
CERTIFICATE NO. 000598

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

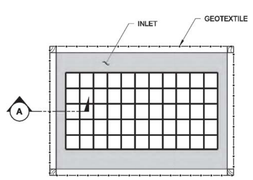
EROSION CONTROL AT CULVERT ENDS

STANDARD PLAN I-30.20-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Pasco Bakotich III 09-20-07
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

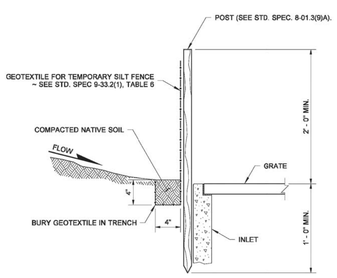
DRAWN BY: LISA CYFORD



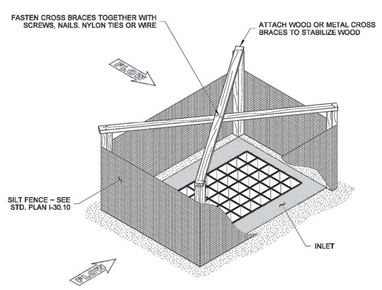
PLAN VIEW
(CROSS BRACES NOT SHOWN)

NOTES

1. Prefabricated units may be used in lieu of the design shown on this plan upon approval of the Engineer.
2. Structure shall be constructed such that geotextile material shall be fastened to posts creating a seamless joint.
3. Ensure that ponding height of water does not cause flooding on adjacent roadways or private property.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



SECTION A



ISOMETRIC VIEW
(ENTIRE FENCE NOT SHOWN FOR ILLUSTRATIVE PURPOSES)

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
MARK W. MAURER
CERTIFICATE NO. 000598

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

TEMPORARY SILT FENCE FOR INLET PROTECTION IN UNPAVED AREAS

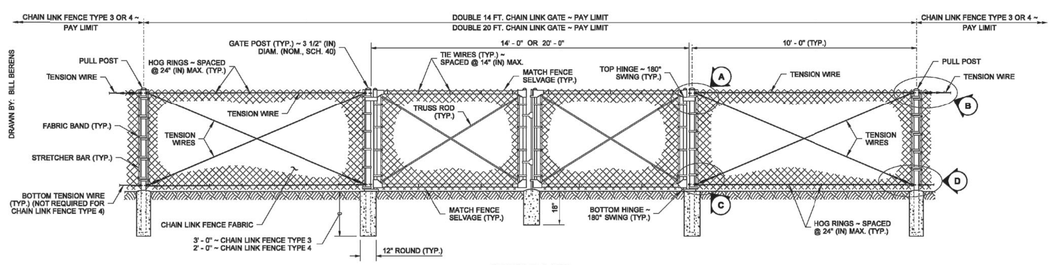
STANDARD PLAN I-40.10-00

SHEET 1 OF 1 SHEET

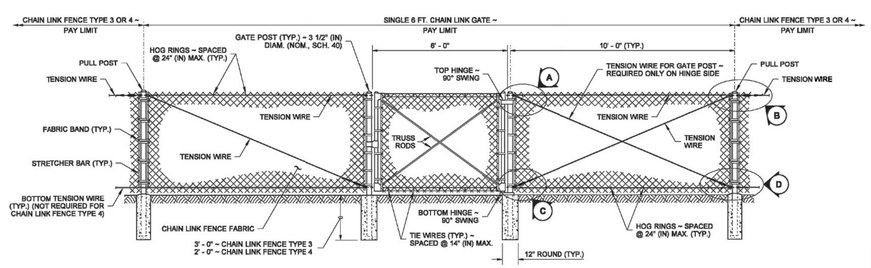
APPROVED FOR PUBLICATION
Pasco Bakotich III 09-20-07
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

NOTES

1. Materials shall meet the requirements of Standard Specification 9-16.



DOUBLE GATE



SINGLE GATE

EDWARD PATRICK BARRY
STATE OF WASHINGTON
36363
REGISTERED
PROFESSIONAL ENGINEER
Barry, Ed
May 6 2014 3:57 PM

CHAIN LINK GATE

STANDARD PLAN L-30.10-02

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Bakotich, Pasco
Jun 11 2014 1:40 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-WSDOT DT
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
36287
REGISTERED
PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

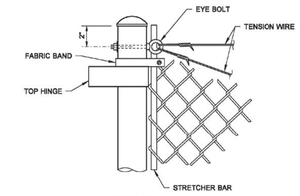
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WSDOT STANDARD DETAILS 2

DRAWING NO. ##### OF 91
DT11

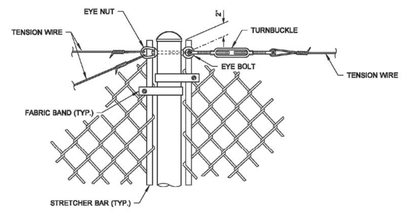
PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 10:07:16 AM
LAYOUT: DT11

DRAWN BY: BILL BERENS



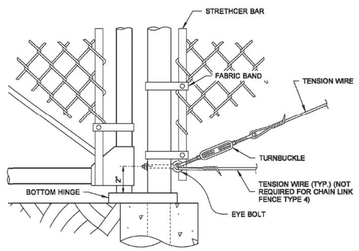
GATE POST

DETAIL (A)



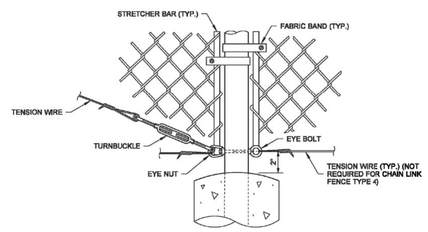
PULL POST

DETAIL (B)



GATE POST

DETAIL (C)



PULL POST

DETAIL (D)

EDWARD PATRICK BARRY
STATE OF WASHINGTON
24343
REGISTERED PROFESSIONAL ENGINEER

Barry, Ed
May 6 2014 3:58 PM

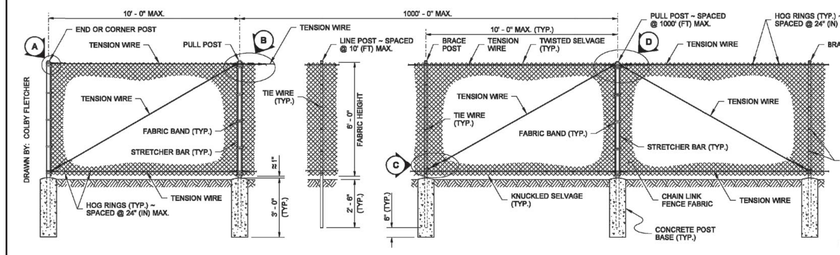
CHAIN LINK GATE

STANDARD PLAN L-30.10-02

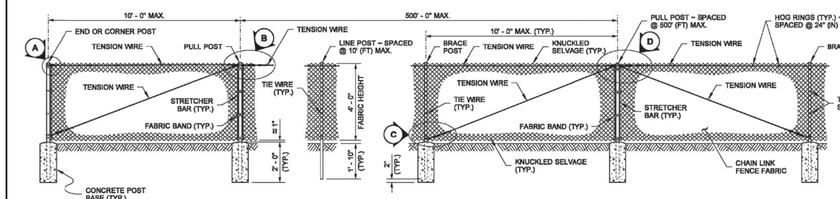
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Robitaille, Pascal
Jun 11 2014 5:41 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: COLBY FLETCHER

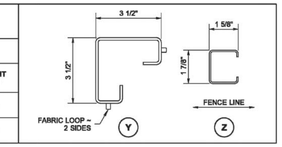


TYPE 3



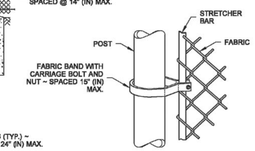
TYPE 4

POST AND RAIL SPECIFICATIONS			
POST	PIPE	ROLL FORMED	
	NOM. SIZE (SCH. 40) I.D.	SECTION	WEIGHT (lb/ft)
END, CORNER, OR PULL POST	2 1/2" DIAM.	(Y)	5.10
LINE OR BRACE POST	2" DIAM.	(Z)	1.85



NOTES

1. All concrete post bases shall be 10" (in) minimum diameter.
2. Along the top and bottom, using Hog Rings, fasten the Chain Link Fence Fabric to the Tension Wire within the limits of the first full fabric weave.
3. Details are illustrative and shall not limit hardware design or post selection of any particular fence type.
4. Fencing shall be used for security and boundary delineation only.



METHOD OF FASTENING STRETCHER BAR TO POST

EDWARD PATRICK BARRY
STATE OF WASHINGTON
24343
REGISTERED PROFESSIONAL ENGINEER

Barry, Ed
Jul 14 2015 11:14 AM

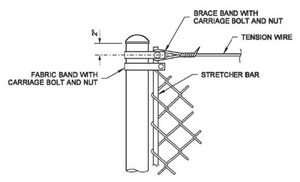
CHAIN LINK FENCE TYPES 3 AND 4

STANDARD PLAN L-20.10-03

SHEET 1 OF 2 SHEETS

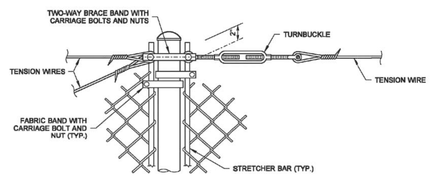
APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 14 2015 11:24 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: COLBY FLETCHER



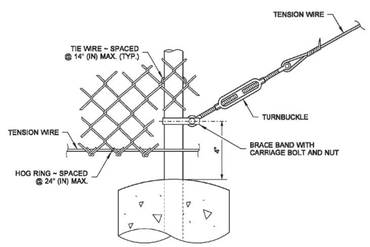
END OR CORNER POST

DETAIL (A)



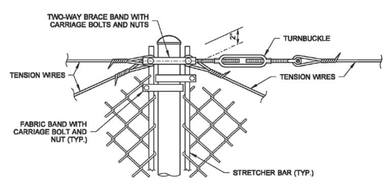
PULL POST (AT END OR CORNER)

DETAIL (B)



BRACE POST

DETAIL (C)



PULL POST (WITHIN RUN)

DETAIL (D)

EDWARD PATRICK BARRY
STATE OF WASHINGTON
24343
REGISTERED PROFESSIONAL ENGINEER

Barry, Ed
Jul 14 2015 11:14 AM

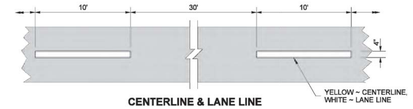
CHAIN LINK FENCE TYPES 3 AND 4

STANDARD PLAN L-20.10-03

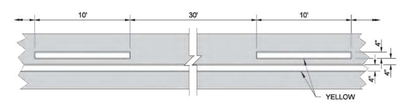
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jul 14 2015 11:24 AM
STATE DESIGN ENGINEER
Washington State Department of Transportation

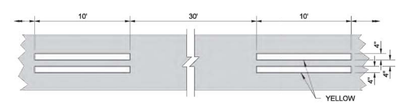
DRAWN BY: FERN LIDDELL



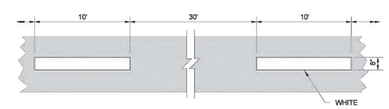
CENTERLINE & LANE LINE



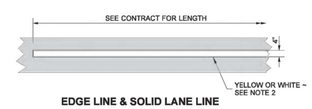
NO-PASS LINE & TWO-WAY LEFT-TURN CENTERLINE



REVERSIBLE LANE LINE



WIDE BROKEN LANE LINE

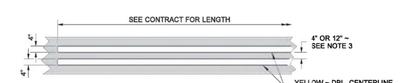


EDGE LINE & SOLID LANE LINE

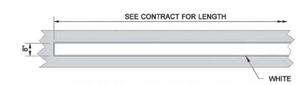
NOTES

1. Dotted Extension Line shall be the same color as the line it is extending.
2. Edge Line shall be white on the right edge of traveled way, and yellow on the left edge of traveled way (on one-way roadways). Solid Lane Line shall be white.
3. The distance between the lines of the Double Centerline shall be 12" everywhere, except 4" for left-turn channelization and narrow roadways with lane widths of 10 feet or less. Local Agencies (on non-state routes) may specify a 4" distance for all locations.

   The distance between the lines of the Double Lane Line shall be 4".

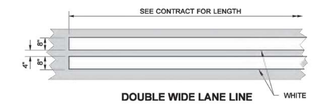


DOUBLE CENTERLINE & DOUBLE LANE LINE

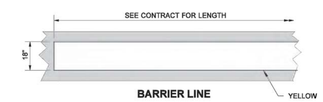


WIDE EDGE LINE & WIDE SOLID LANE LINE

OPTION TO USE AS CIRCULATORY ON ROUNDABOUT APPLICATIONS



DOUBLE WIDE LANE LINE



BARRIER LINE

BRIAN J. WALSH
STATE OF WASHINGTON
36103
REGISTERED PROFESSIONAL ENGINEER

Aug 1, 2022

LONGITUDINAL MARKING PATTERNS

STANDARD PLAN M-20.10-04

SHEET 1 OF 4 SHEETS

APPROVED FOR PUBLICATION
Mark Gaines
Aug 2, 2022
STATE DESIGN ENGINEER
Washington State Department of Transportation

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

▷	REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-WSDOT DT
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
56287
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER
DATE

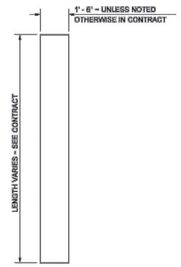
PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02
CENTRALIA, WA

WSDOT STANDARD DETAILS 3

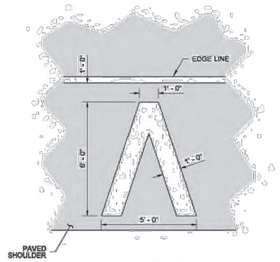
DRAWING NO.
OF 91
DT12

PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemiHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: taylokat DATE: Thursday, September 4, 2025 10:07:33 AM
LAYOUT: DT12

DRAWN BY: LISA CYFORD

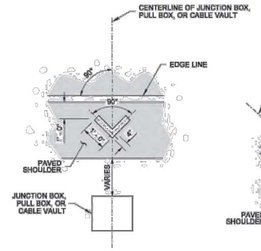


STOP LINE



MARKING AREA = 11.73 SQ.FT.

HALF-MILE MARKER

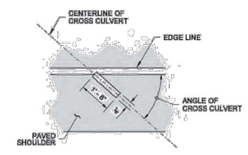


MARKING AREA = 0.56 SQ. FT.

JUNCTION BOX, PULL BOX, OR CABLE VAULT MARKINGS

NOTE

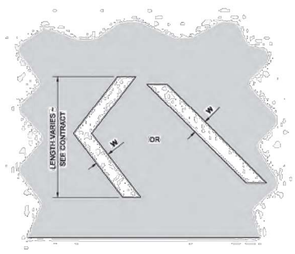
1. If Rumble Strips are present, install marking outside of the Rumble Strip.



MARKING AREA = 0.56 SQ.FT.

CROSS CULVERT

DRAINAGE MARKING

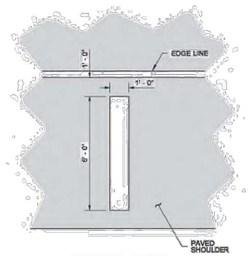


WHITE OR YELLOW ~ SEE CONTRACT

CHEVRON OR DIAGONAL

CROSSHATCH MARKING

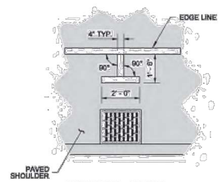
W = 8" (IN) FOR POSTED SPEED LIMIT OF 40 MPH OR LOWER
W = 12" (IN) FOR POSTED SPEED LIMIT OF 45 MPH OR HIGHER



MARKING AREA = 6.00 SQ.FT.

FULL MILE MARKER

AERIAL SURVEILLANCE MARKERS



MARKING AREA = 1.06 SQ.FT.

DRAINAGE STRUCTURE INLET

DRAINAGE MARKING

BRIAN J. WALSH
STATE OF WASHINGTON
46033
REGISTERED
PROFESSIONAL ENGINEER

Walsh, Brian
Jun 24 2014 2:35 PM

SYMBOL MARKINGS MISCELLANEOUS

STANDARD PLAN M-24.60-04

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
Rakesh, Dave
Jun 24 2014 4:43 PM
STATE DESIGN ENGINEER
Washington State Department of Transportation

LAYOUT: DT13 PATH: U:\PSO\Projects\Clients\3739-City of Centralia\216-3739-007 SemHill PrelimDsg\99Svcs\CADD\DWG\PH 3 PLOTTED BY: tayokat DATE: Thursday, September 4, 2025 10:07:41 AM

60 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

	REVISIONS	DATE	BY

DESIGNED J. BETZVOG
DRAWN J. BETZVOG
CHECKED R. RAYMOND
APPROVED #####

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY
FILE NAME PS3739007P3-WSDOT DT
JOB No. 216-3739-007 (PH2/3)
DATE SEPTEMBER 2025

MICHAEL DANG
STATE OF WASHINGTON
52387
REGISTERED
PROFESSIONAL ENGINEER
PRELIMINARY

Parametrix
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374
Ph: 253.604.6600

PATTY PAGE, PE
CITY ENGINEER

DATE

PROJECT NAME
CITY OF CENTRALIA
SEMINARY HILL RESERVOIR AND WATERMAIN
PROJECT NO. PW2025-02

CENTRALIA, WA

WSDOT STANDARD DETAILS 4

DRAWING NO.
OF 91

DT13