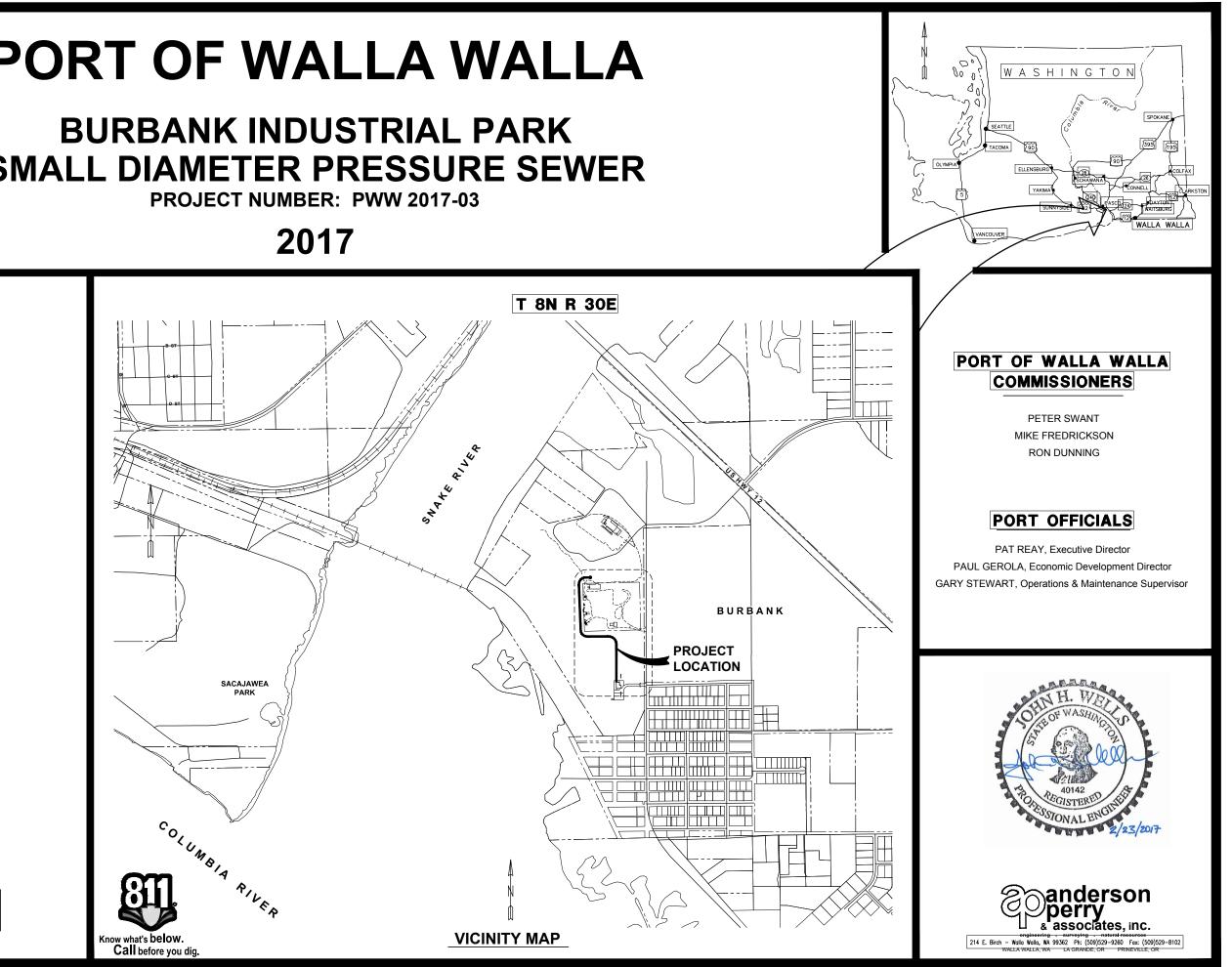
PORT OF WALLA WALLA

BURBANK INDUSTRIAL PARK SMALL DIAMETER PRESSURE SEWER



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GENERAL CONSTRUCTION NOTES

- . THESE PLANS, SPECIFICATIONS, AND REFERENCED DOCUMENTS SHALL BE USED TO CONSTRUCT THE IMPROVEMENTS SHOWN. REFERENCED DOCUMENTS INCLUDE THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (2016 EDITION), WSDOT STANDARD PLANS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL. WHERE NECESSARY THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE PORT OF WALLA WALLA AND WALLA WALLA COUNTY FOR REVIEW AND APPROVAL. ALL SIGNING SHALL COMPLY WITH THE MUTCD AND ALL TRAFFIC OPERATIONS MUST BE ACCEPTABLE TO THE PORT OF WALLA WALLA AND IF NECESSARY, WALLA WALLA COUNTY PRIOR TO STARTING CONSTRUCTION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES IN AND AROUND THE WORK AREAS. BOTH PRIVATE AND PUBLIC POWER, WATER, TELEPHONE, GAS, CABLE, ETC. SHALL BE INCLUDED. THE CONTRACTOR SHALL MAKE ADVANCE EXPLORATIONS NEEDED TO PROPERLY PLAN THE INSTALLATION OF PIPE TO THE DESIGN LINE AND GRADE AND TO ACHIEVE A UNIFORM GRADE AND HORIZONTAL ALIGNMENT. THIS INCLUDES POTHOLING AT ALL UTILITY LINE CROSSINGS TO VERIFY PROPOSED ALIGNMENTS AND GRADES. THE ONE CALL LOCATE NUMBER FOR WALLA WALLA COUNTY IS BII. ANY DISCREPANCIES BETWEEN THE DESIGN SHEETS AND EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
- 4. THE KNOWN EXISTING WATER, AND OTHER UTILITIES ARE TYPICALLY SHOWN IN PLAN VIEW. SOME OMISSIONS AND INACCURACIES SHOULD BE EXPECTED. CRITICAL LOCATIONS SHOULD BE FIELD LOCATED AHEAD OF TIME AND THE CALL-BEFORE-YOU-DIG PROCEDURES SHOULD BE IMPLEMENTED IN ALL CASES.
- 5. ANY OBSTRUCTIONS ENCOUNTERED THAT MAY NOT BE SHOWN ON THE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PORT. ITEMS VISIBLE IN THE FIELD ARE THE CONTRACTOR'S RESPONSIBILITY, EVEN IF NOT SHOWN ON THE PLANS.
- 6. ALL PIPES SHALL BE BEDDED SELECT BACKFILL MATERIAL MEETING REQUIREMENTS FOR CRUSHED SURFACING TOP COURSE PER WSDOT SPECIFICATION 9-03.9(3) AND AS INDICATED IN THE DETAILS AND THE SPECIFICATIONS.
- 7. A PROFILE GRADE IS SHOWN ON THE PLANS. THE INTENT IS TO AVOID CONFLICTS WITH EXISTING UTILITIES AND TO MAINTAIN THE REQUIRED SLOPE. THE GRADE CAN BE ADJUSTED AFTER POTHOLING THE EXISTING UTILITIES WITH APPROVAL OF THE ENGINEER PROVIDED NECESSARY INVERT ELEVATIONS AND PIPE SLOPES ARE ACHIEVED. GRADE ADJUSTMENTS TO ACCOMMODATE EXISTING UTILITIES SHALL BE CONSIDERED A NORMAL PART OF THE WORK AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK WHEN THE GENERAL LOCATION OF EXISTING UTILITIES IS SHOWN ON THE DRAWINGS.
- 8. EXISTING SANITARY SEWER LINES MUST BE KEPT FREE OF DEBRIS AND OPERATIONAL AT ALL TIMES. IF STOPPAGE PROBLEMS ARE ENCOUNTERED OR DEBRIS ENTERS THE LINES, THE CONTRACTOR SHALL CONTACT THE OWNERS REPRESENTATIVE.
- 9. PORTIONS OF THE PROJECT AREA ARE KNOWN TO HAVE COBBLES AND BOULDERS PRESENT BELOW THE EXISTING GRADE. THE NUMBER AND DEPTH VARIES. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL BOULDERS (ROCKS LARGER THAN 12" IN DIAMETER) FROM EXCAVATION AREAS AND TRENCHES. STOCK PILE BOULDERS ADJACENT TO THE TRENCH.
- 10. NEW PRESSURE SEWER SHALL HAVE A CONTINUOUS LOCATE WIRE AND IDENTIFYING TAPE.
- 11. OPERATION OF EXISTING VALVES AND FACILITIES SHALL BE PERFORMED BY PORT OF WALLA WALLA PERSONNEL UNLESS PERMISSION IS OBTAINED FROM THE OWNER FOR OPERATION OF THE EXISTING SYSTEM BY THE CONTRACTOR.
- 12. THE CONTRACTOR SHALL PROVIDE TEMPORARY TAPS, BLOWOFFS, FITTINGS, AND THRUST BLOCKS AS REQUIRED TO FACILITATE FLUSHING AND TESTING.
- 13. NO BACKFILL SHALL BE PLACED UNTIL THE PIPE IS INSPECTED BY THE PORT. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN BY THE CONTRACTOR TO THE PORT.
- 14. KNOWN SURVEY MONUMENTS AND CONTROL POINTS ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING, PROTECTING, AND IF NECESSARY, RESETTING MONUMENTS. THE CONTRACTOR SHALL BE REQUIRED TO RETAIN A WASHINGTON STATE LICENSED SURVEYOR TO DIRECT THE WORK REQUIRED TO RESET MONUMENTS AND PERMANENT BENCH MARKS.
- 15. THE SIZES AND TYPES OF EXISTING SEWER LINES SHOWN ON THE PLANS ARE BASED ON OWNERS RECORDS. SOME DISCREPANCIES ARE EXPECTED. THE CONTRACTOR SHALL FIELD VERIFY ALL SIZES AND TYPES PRIOR TO MAKING CONNECTIONS. CONNECTIONS TO EXISTING SEWER LINES WILL BE MADE BASED ON THE ACTUAL SIZE. NO ADDITIONAL PAYMENT WILL BE MADE IF THE TYPE AND SIZE OF PIPE IS DIFFERENT.

- 16. THE CONTRACTOR SHALL KEEP THE WORK AREA CLEAN AND MAINTAIN DUST CONTROL AT ALL TIMES. SEE EROSION CONTROL NOTES.
- 17. THE CONTRACTOR SHALL MAINTAIN AN ACCURATE AND UPDATED SET OF RECORD DRAWINGS THAT INCORPORATE ANY CHANGES OR ADDITIONS ENCOUNTERED. THESE SHALL BE DELIVERED TO THE ENGINEER UPON COMPLETION OF THE WORK AND WILL BE USED AS A BASIS FOR PREPARING A SET OF RECORD DRAWINGS FOR THE PORT OF WALLA WALLA. FINAL PAYMENT WILL NOT BE MADE UNTIL ACCEPTABLE DRAWINGS HAVE BEEN PROVIDED.
- IB. AT THE END OF EACH WORK DAY, ALL OPEN TRENCHES SHALL BE BACKFILLED OR TEMPORARILY COVERED TO THE SATISFACTION OF THE ENGINEER.
- 19. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL REPLACE EXISTING SURFACES WITH "LIKE" RESTORATION. RESTORATION SHALL BE EQUAL OR BETTER THAN EXISTING. ANY WORK REQUIRED TO RESTORE SURFACES OUTSIDE THE DEFINED LIMITS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO ADDITIONAL COST TO THE OWNER. SURFACE RESTORATION SHALL BE NATIVE DRY LAND GRASS SEED MIX AT A MINIMUM RATE OF 4 LBS. PER 1000 50-FT WITH FERTILIZER (22-16-8) APPLIED AT I LB. PER 100 S0-FT.
- 20. BECAUSE OF THE TYPES OF SOILS FOUND AT THE SITE AND THE PROXIMITY TO THE SNAKE RIVER, THE GROUNDWATER LEVELS AND VOLUME ARE IMPACTED BY THE RIVER LEVEL. THE ANTICIPATED GROUNDWATER LEVELS FOR THE LATE FALL INTO EARLY SPRING ARE SHOWN ON THE DRAWINGS. GROUNDWATER IS INDICATED ON THE PLAN AND PROFILE SHEETS TO BE 342.01. THIS IS CONSISTENT WITH THE TEST PIT LOGS EXCAVATED WITHIN THE PROJECT AREA AND THE TIME OF YEAR THE TEST PITS WERE EXCAVATED. IT IS EXPECTED THAT THE GROUNDWATER LEVEL WILL FLUCTUATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND ACCOUNT FOR ALL NECESSARY DEWATERING FOR THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR ADDITIONAL DEWATERING FOR FLUCTUATIONS IN GROUNDWATER LEVELS LESS THAN 343.0 FEET NAVD88.
- 21. THE OWNER'S SURVEYOR WILL PROVIDE CONSTRUCTION STAKING FOR THE SMALL DIAMETER PRESSURE SEWER.
- 22. MARKER POSTS SHALL BE INSTALLED AT ALL PIPELINE DEAD END, BURIED VALVE LOCATIONS AND BURIED BLIND FLANGES.

MATERIALS

A. HIGH DENSITY POLYETHYLENE TUBING

HIGH DENSITY POLYETHYLENE TUBING, WHEN REQUIRED, SHALL CONFORM TO AWWA C901 AND ASTMD 3350 (PE4710) WITH 125 PSI WORKING PRESSURE AND SHALL BE IRON PIPE SIZE DR17.0.

B. LOCATING WIRE

LOCATING WIRE SHALL BE INSTALLED WITH ALL UNDERGROUND PIPING. LOCATING WIRE SHALL BE A MINIMUM OF 12 AWG UF SOLID COPPER WITH GREEN COLORED INSULATION FOR WASTEWATER PIPING AND BLUE COLORED INSULATION FOR WATER PIPING. THE USE OF THHN WIRE WILL NOT BE ACCEPTABLE. AT ALL SPLICES THE CONNECTING ENDS OF THE WIRES SHALL BE OVERLAPPED AND TIED. THE ENDS SHALL BE STRIPPED AND CONNECTED WITH A WIRE NUT TO ENSURE AN ELECTRICAL CONNECTION AND MADE WATERPROOF WITH AN APPROVED SILICONE SPLICE KIT. THE SPLICE KIT SHALL BE KING TECHNOLOGY MODEL 50-566. WHERE LOCATION WIRE IS TO BE SECURED TO EXTERIOR OF CLEANOUTS, VALVE BOXES, ETC., STAINLESS STEEL PIPE STRAPS SHALL BE USED.

C. FITTINGS

UNLESS SPECIFIED OTHERWISE, ALL FITTINGS SUCH AS ELBOWS, TEES, CROSSES, ETC., FOR BURIED PIPE SHALL BE HDPE HEAT FUSION WELDED JOINT PER MANUFACTURER'S REQUIREMENTS.

D. VALVES

GENERAL

VALVES SHALL BE OF THE TYPE CALLED FOR ON THE DRAWINGS AND SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

GATE VALVES, 2 INCHES AND SMALLER

VALVES SHALL BE ALL BRONZE, NON-RISING STEM, CONFORMING TO FEDERAL SPECIFICATION MSS_SP_80, RATED FOR A MINIMUM WORKING PRESSURE OF 125 PSI.



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			REVIEWED BY H. BOGGS			COPYRIGHT 2017 BY ANDERSON PERRY & ASSOCIATES, INC.		



EROSION CONTROL NOTES

THE AREA OF DISTURBANCE FOR THIS PROJECT IS LESS THAN I ACRE. THEREFORE NO STORMWATER GENERAL CONSTRUCTION PERMIT IS NEEDED.

TESTING

GENERAL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LENGTH OF ANY GIVEN SECTION OF LINE TO BE TESTED. IT IS RECOMMENDED THAT THE LENGTH OF LINE TO BE TESTED NOT BE EXCESSIVE SO THAT THE IDENTIFICATION OF ANY PROBLEM AREAS CAN BE READILY MADE. IT IS ALSO RECOMMENDED THAT TESTING FOLLOW CLOSELY AFTER THE PIPE INSTALLATION AND BACKFILL.

2. HYDROSTATIC TESTING OF PRESSURE SEWER LINES

- a. EACH SECTION OF THE LINES BEFORE BEING PLACED INTO SERVICE SHALL BE ISOLATED AND SLOWLY FILLED WITH WATER. AIR SHOULD BE EXPELLED FROM THE LINES THROUGH TAPS MADE AT THE HIGH POINTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ANY NECESSARY TAPS IN ADDITION TO THOSE SHOWN ON THE DRAWINGS, AND SUCH ADDITIONAL TAPS SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- b. ALL LINES SHALL BE PRESSURE TESTED BY THE CONTRACTOR AT 100 PSI PRESSURE, AT THE LOWEST PIPE ELEVATION, FOR ONE HOUR. ANY CRACKED OR DEFECTIVE PIPE OR FITTING SHALL BE REMOVED AND REPLACED.

LEAKAGE TEST

EACH SECTION OF THE LINE BEFORE BEING PLACED INTO SERVICE SHALL BE TESTED BY THE CONTRACTOR FOR LEAKAGE FOR A PERIOD OF TWO HOURS AT AN AVERAGE GAGE PRESSURE OF 60 PSI. THE SECTION OF PIPE WILL PASS THE LEAKAGE TEST IF THE PRESSURE HOLDS STEADY FOR THE 2-HOUR PERIOD.

EQUIPMENT

THE CONTRACTOR SHALL PERFORM AND PROVIDE ALL EQUIPMENT AND MATERIALS NECESSARY TO PERFORM THE REQUIRED TEST.

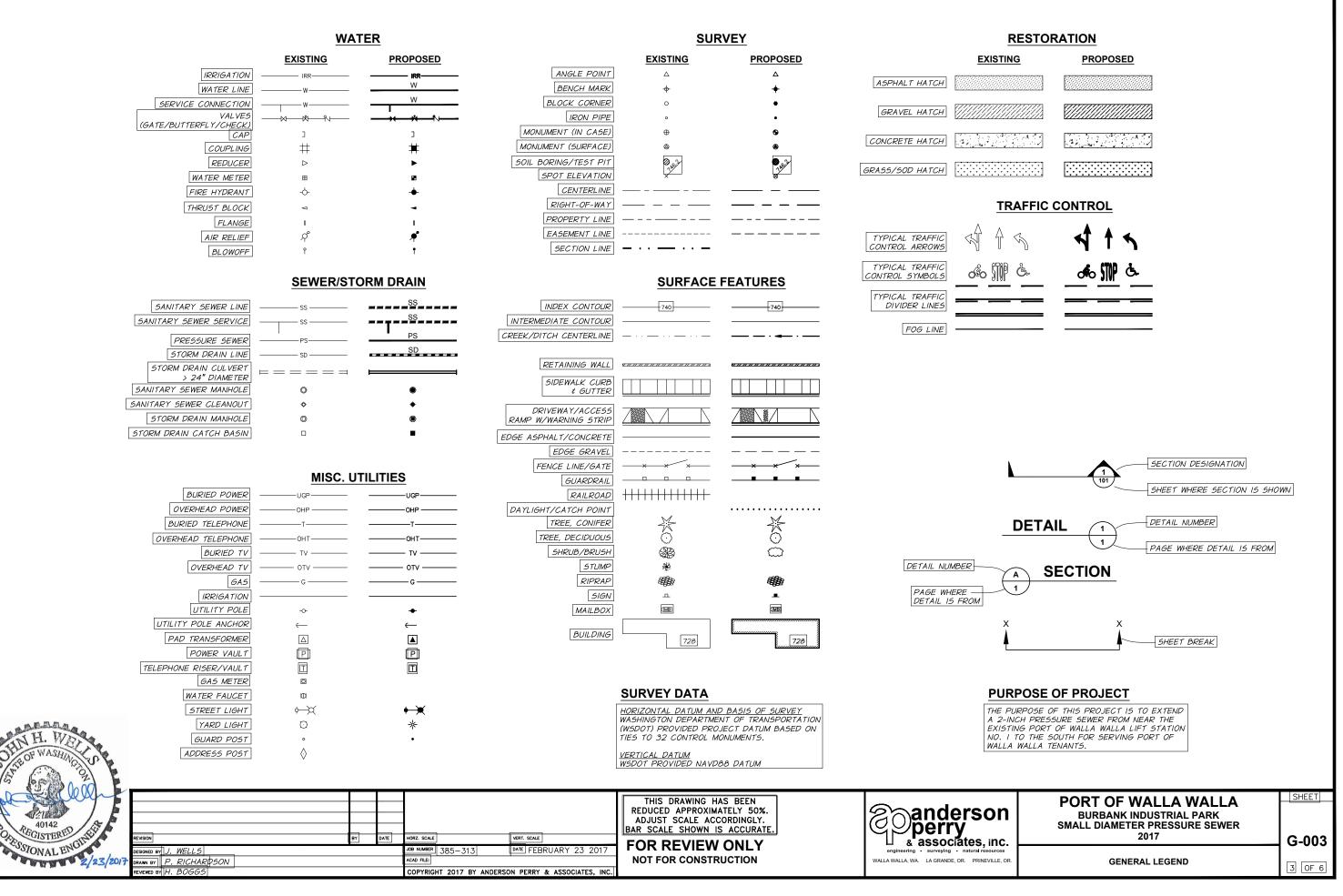
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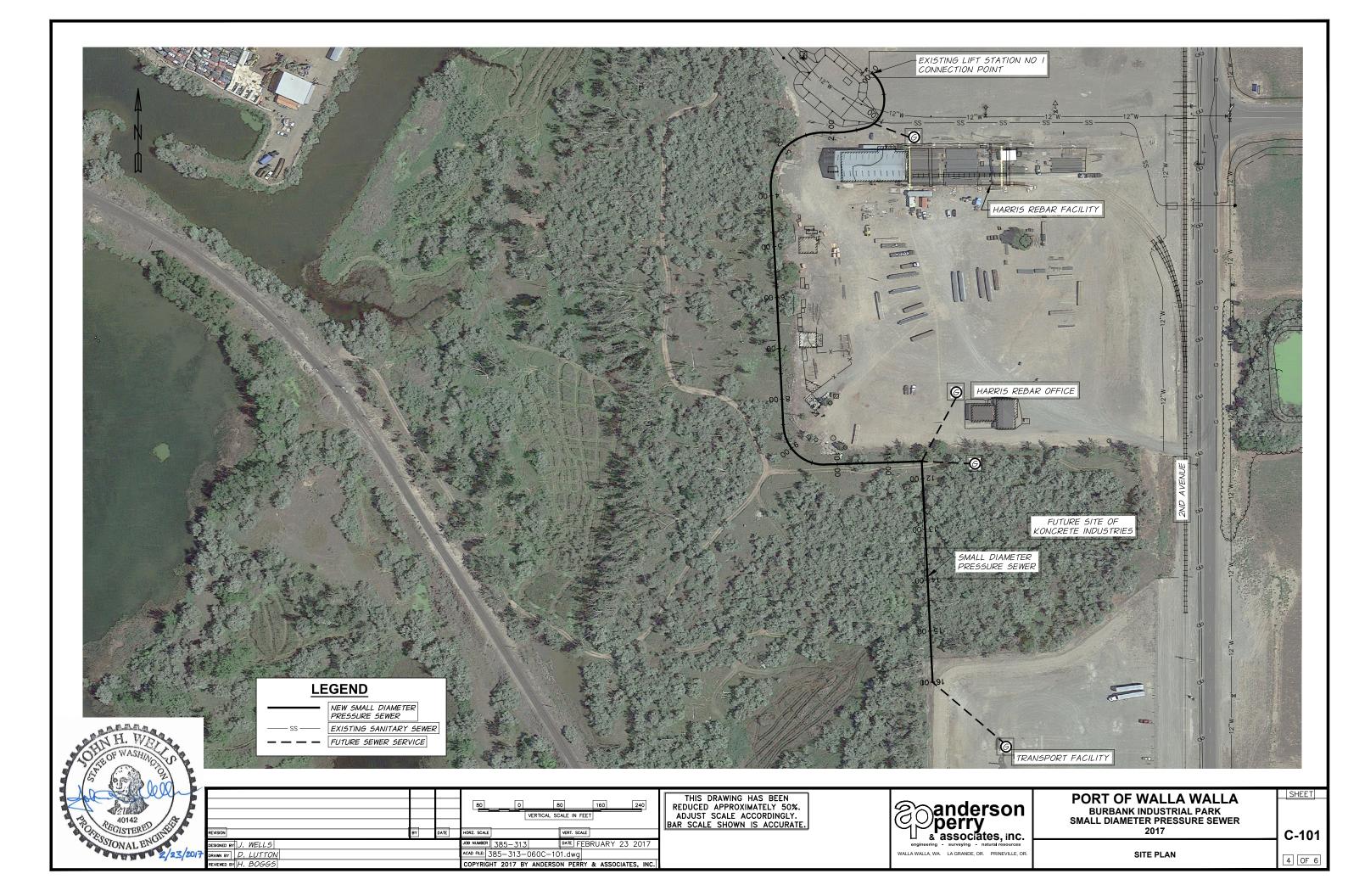
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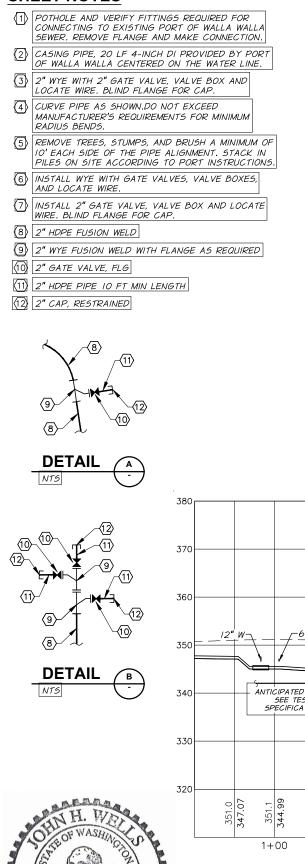
GENERAL NOTES AND EROSION CONTROL

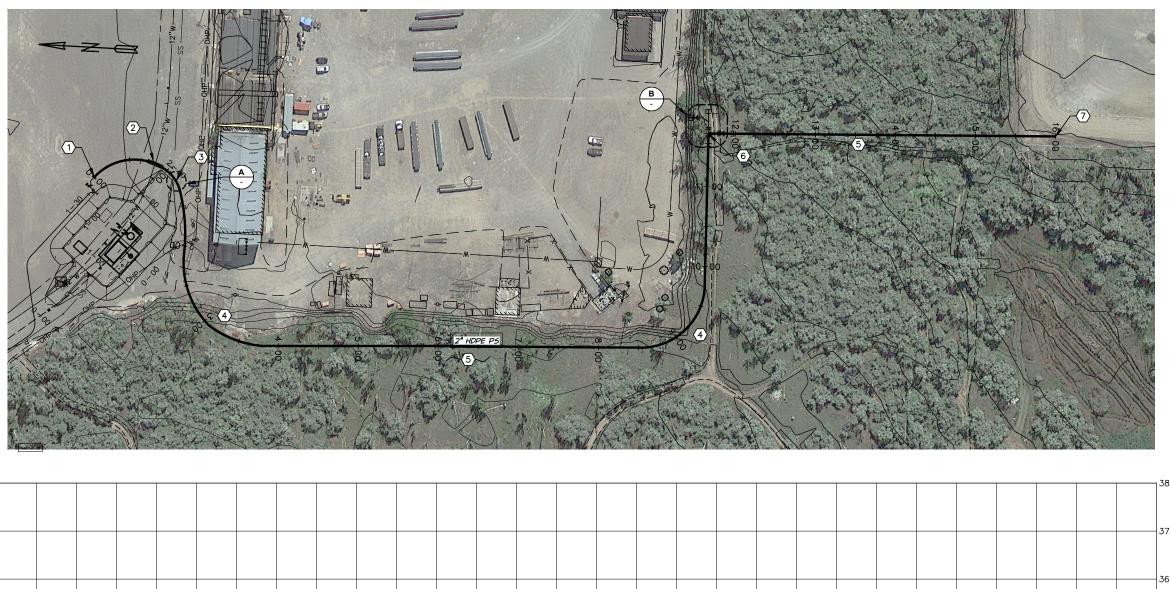
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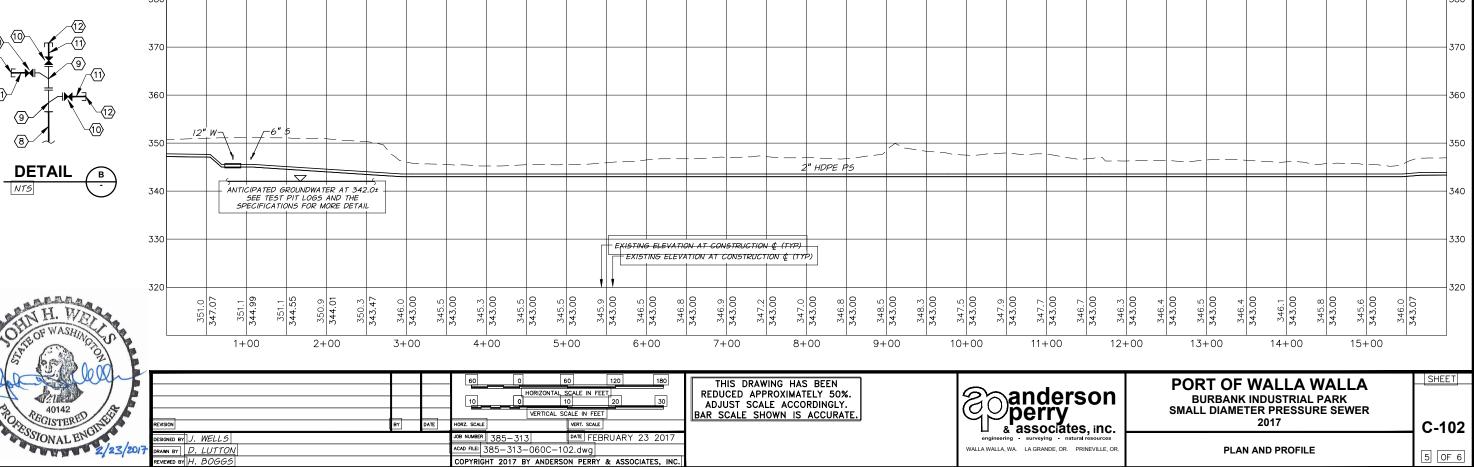


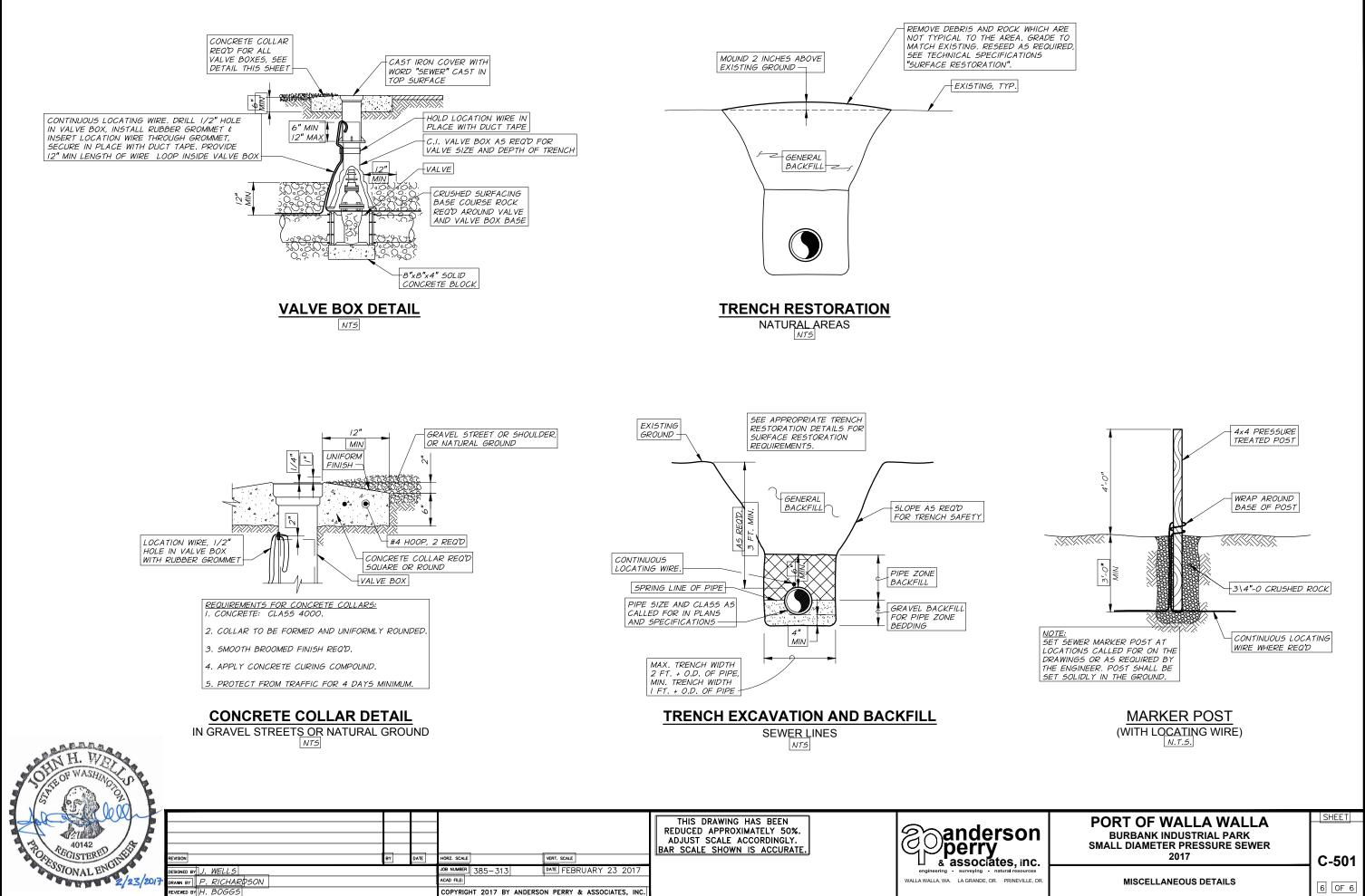


SHEET NOTES









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