

PROJECT MANAGER Scott Woodcum, PE 540-375-3580
SURVEYED BY Woolpert Inc. and Rice Associates
DESIGN SUPERVISED BY Michael Hoasong, PE 571-633-2225
DESIGNED BY SDV, Incorporated 501-633-2220

LIMITED ACCESS HIGHWAY

By Resolution of Highway Commission
dated October 4, 1956

LIMITED ACCESS HIGHWAY

Plotted By: Keenan
By Resolution of Commonwealth Transportation
Board dated January 1, 1987

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Plotted By: Keenan

By Resolution of Commonwealth Transportation
Board dated January 1, 1987

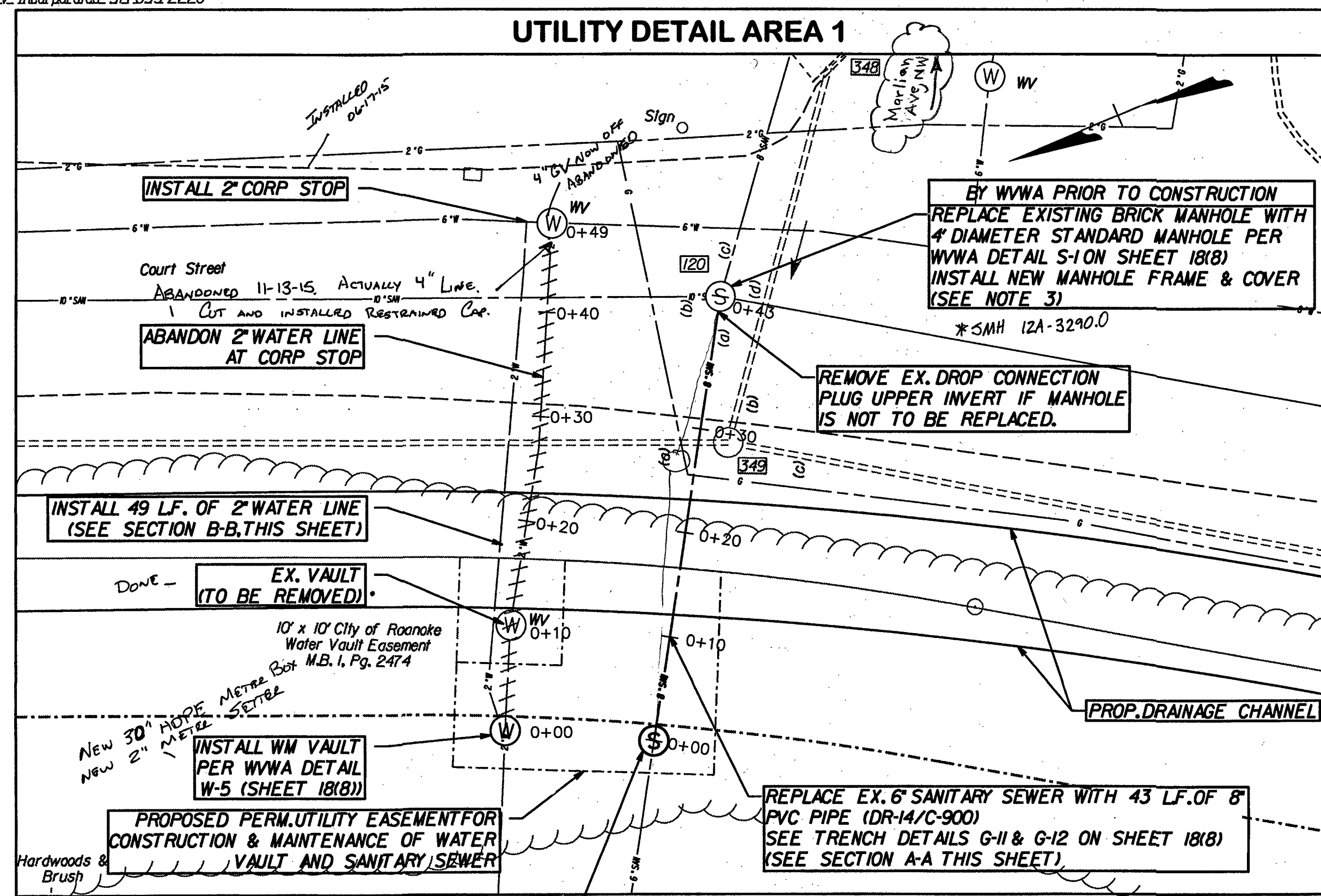
CONSTRUCTION PLAN
APPROVED
FOR CONSTRUCTION BY THE
WESTERN VIRGINIA WATER
AUTHORITY

Approved By: *David V. [Signature]* Date: 4-9-14

ANDERSON & ASSOCIATES
BLACKSBURG, VIRGINIA
(UTILITY)

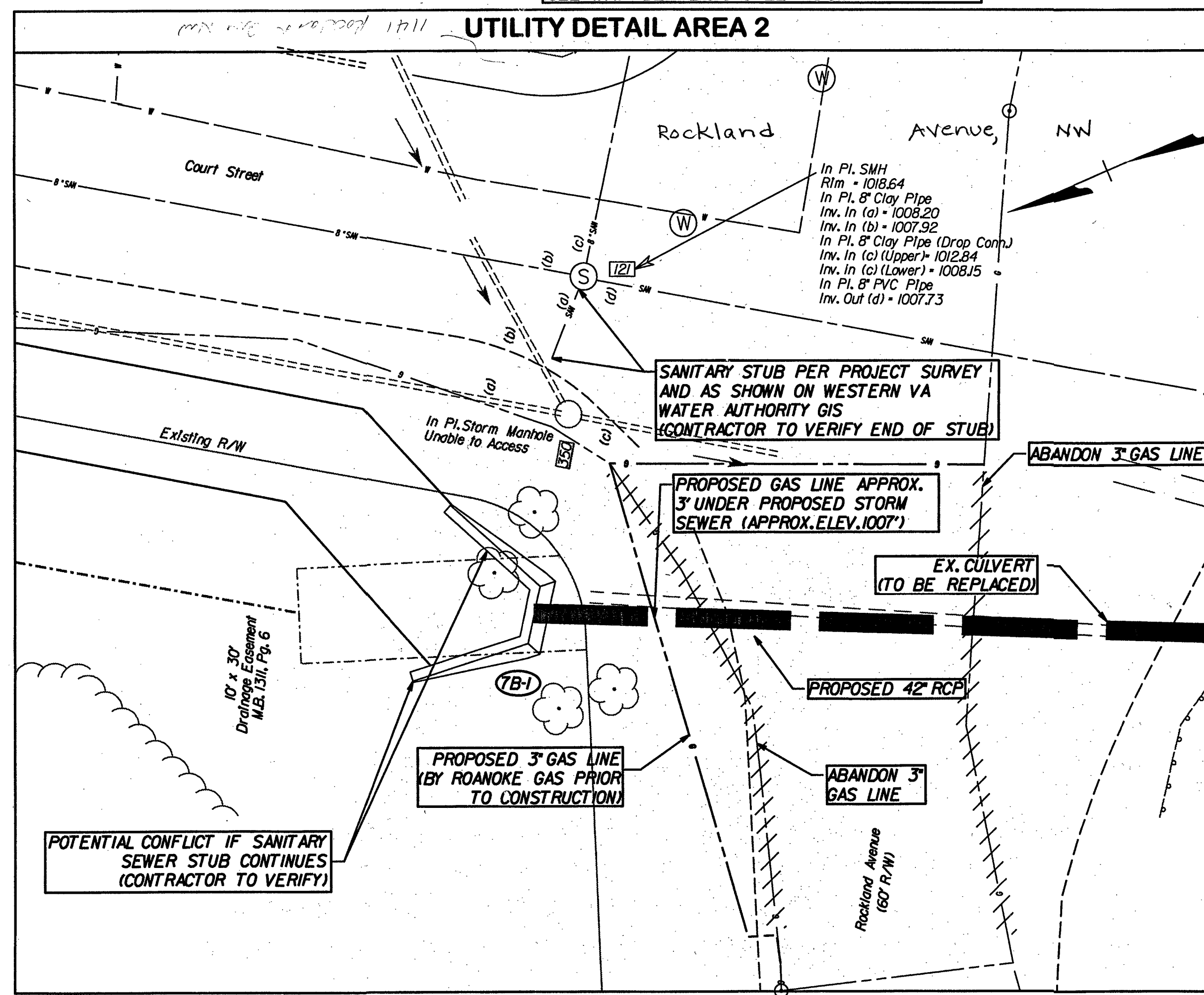
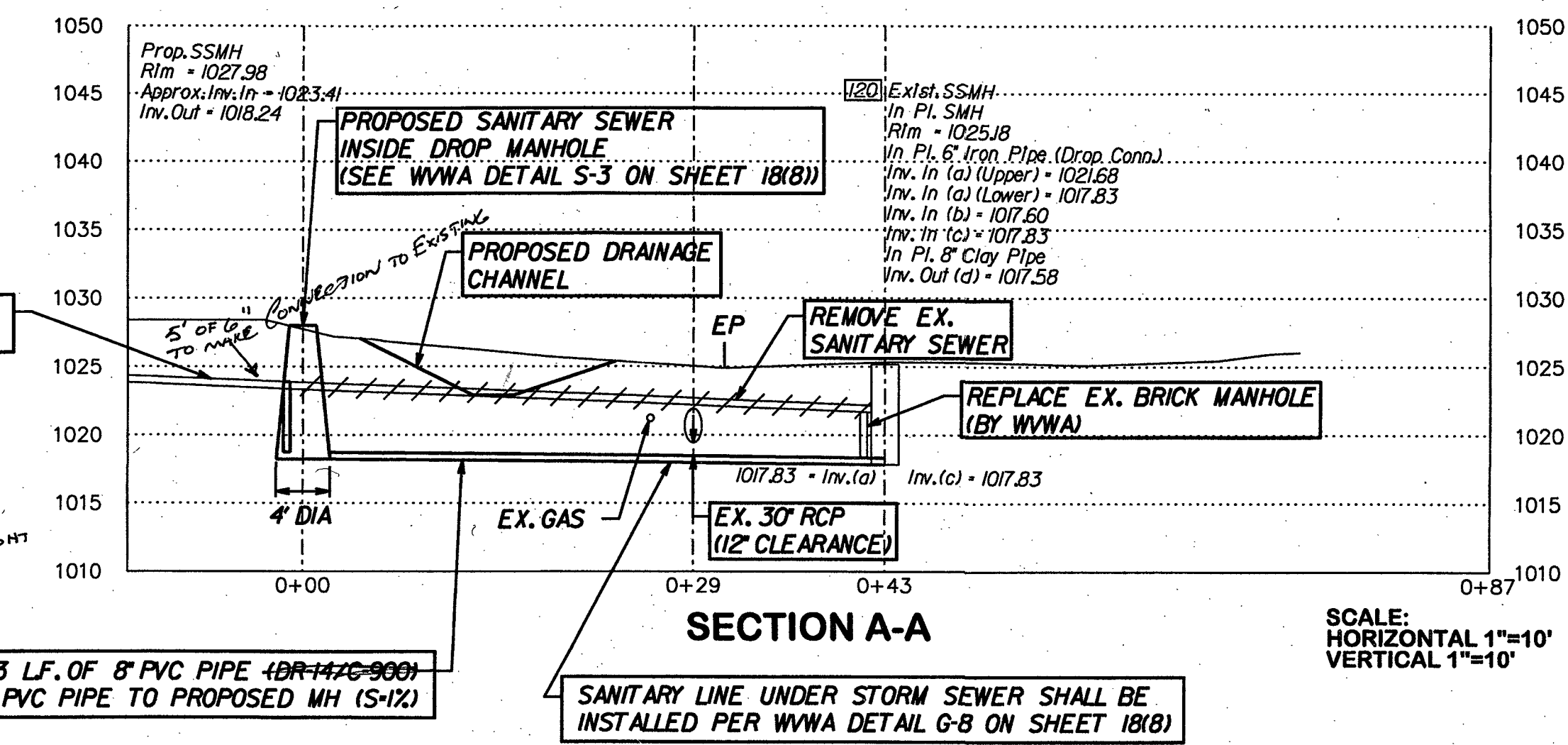
REVISION	STATE	ROUTE	PROJECT	SHEET NO.
	VA.		0581-128-109, PE-101 RW-201, C-501, B-627	18(7)

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

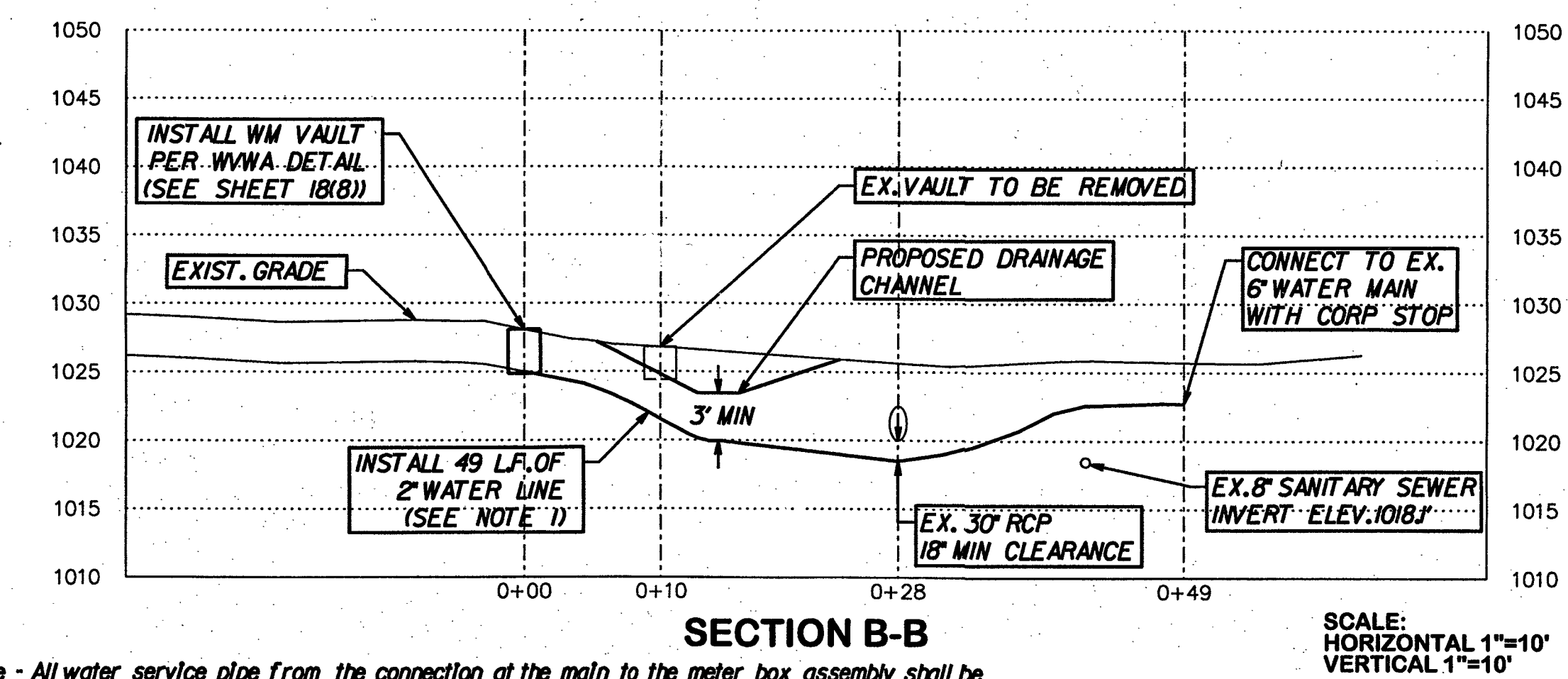


06-22-15
COMPLETED WATER SERVICE INSTALLATION.
2" ENDOT HDPE DR9 PE4710 PIPE

06-29-15
COMPLETED SANITARY SEWER INSTALLATION
8" NATIONAL SDR 35 PVC
6" NATIONAL SDR 26 PVC
CP & P SSMH 5' DIAMETER PRE-CAST CONCRETE
EAST JORDAN IRON WORKS FRAME & COVER. WATER TIGHT
07-17-15: PRESSURE TESTED NEW 8" LINE 3 PASSED
VACUUM TESTED NEW SSMH 3 PASSED
07-01-15 CHECKED WITH POLE CAMERA.
(KEVIN BRYANT.)

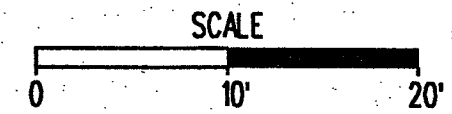


- Notes:
- 1) Specifications for domestic water service lines: 2" Water Service - All water service pipe from the connection at the main to the meter box assembly shall be Polyethylene (PE). PE tubing shall be produced with PE 4710 bimodal resins. It shall be SDR-9, copper tube size (CTS), meeting the requirements of AWWA C901 and ASTM D2737 and pressure rated for 200 psi. Tubing shall be certified according to NSF 61 and the same shall be indicated on the pipe. Tubing shall be Endupure by Endot Industries, Inc. or equal. All connections shall use approved CTS compression connection fittings. Pipe stiffeners/inserts for PE tubing shall be used in accordance with manufacturer's recommendations. Fittings for service lines shall meet ANSI/AWWA Specification C800. Solder connection shall not be used for underground service. See WWA Specification CS-2 for additional information and installation instructions. No testing required.
 - 2) Specification for sanitary sewer piping (if material is not specified on plans): Polyvinyl Chloride (PVC) - PVC sewer pipe shall be manufactured in accordance with ASTM Designation 3034-77 (SDR 35). Gravity sewer pipe shall be unplasticized polyvinyl chloride with integral rubber ring wall bell and spigot joints furnished in 12.5' and 20' nominal lengths. Installation of PVC gravity sewer pipe and fittings shall be in accordance with ASTM Designation D 2321 and manufacturer's recommendations. a. PVC sewer pipe shall be stored in accordance with manufacturer's recommendations on flat, even surfaces and shall remain racked on the pallets as delivered to the job site until such time as the trench is ready for placement of the pipe. PVC pipe shall not be laid along proposed alignment in excess of one day's work. b. Additional strength PVC pipe including SDR-26, SDR-21, DR-18 or concrete encasement of SDR-35, or both, shall be required where depth exceeds twelve feet (12') or where additional protection is required for the pipe as determined by the Participating Utility. See WWA Specification CS-3 for additional information and installation/testing instructions. See WWA Specification CS-4 for inspection instructions. WWA will inspect line with push camera.
 - 3) For manhole replacement, cut existing sanitary sewer lines a minimum of 6' from the manhole and replace with new pipe per Note 2. Connect new lines to existing lines with Fernco Coupling or approved equal in accordance with detail S-11 on sheet 18(8). Testing shall be by the vacuum test method.
 - 4) Trenches are not to be left open overnight unless adequate safety precautions are taken. Where consistent with safety and space considerations, excavated material is to be placed on uphill side of trenches. Pipe shall not be strung along trench in excess of that which can be installed each day.
 - 5) CONTRACTOR shall be responsible for notifying "Miss Utility" a minimum of 72 hours prior to any excavating operations. CONTRACTOR shall be aware of and comply with all provisions of the Virginia Underground Utility Damage Protection Act as enforced by the State Corporation Commission.
 - 6) Coordinate with Western Virginia Water Authority (WWA) to minimize shutdown times and impacts to businesses.
 - 7) For additional information, specifications, and standards, refer to the "Western Virginia Water Authority Design and Construction Standards" 2012 edition. These standards can be found at:
<http://www.westernvawater.org/WebMgmt/pwbase6ib.nsf/ContentByKey/N262XMGCS06PESEN>



THE
LANE
CONSTRUCTION
CORPORATION

FINAL PLANS



PROJECT	SHEET NO.
0581-128-109	18(7)