

SECTION OF BOX CULVERT

SECTION OF WALL

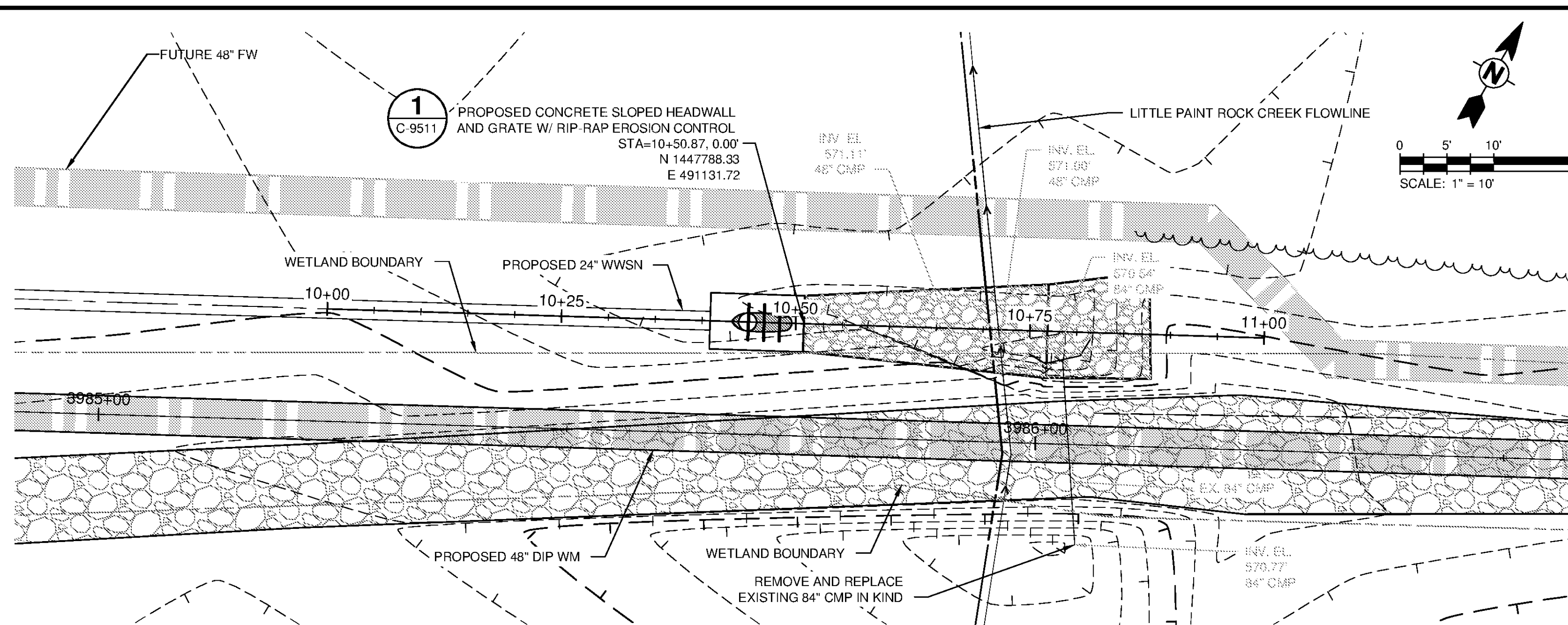
NOTE

A 3/4" Vee Joint is equivalent to and can be used instead of a Construction Joint for box culvert construction. The term Joint shall refer to either and shall be determined by the Project Engineer.

No Joints are required for box culverts up to 60 ft. long. Box culverts 60 ft. to 90 ft. long require one (1) Joint, 90 ft. to 135 ft. two (2) Joints, and 135 ft. to 170 ft. three (3) Joints. For box culverts over 170 ft. long place joints at approximate equal intervals of not less than 40 ft. nor more than 55 ft. The joints shall be normal to the centerline of the box culvert with longitudinal reinforcing extending through the joint. Use no key or expansion material in joints.

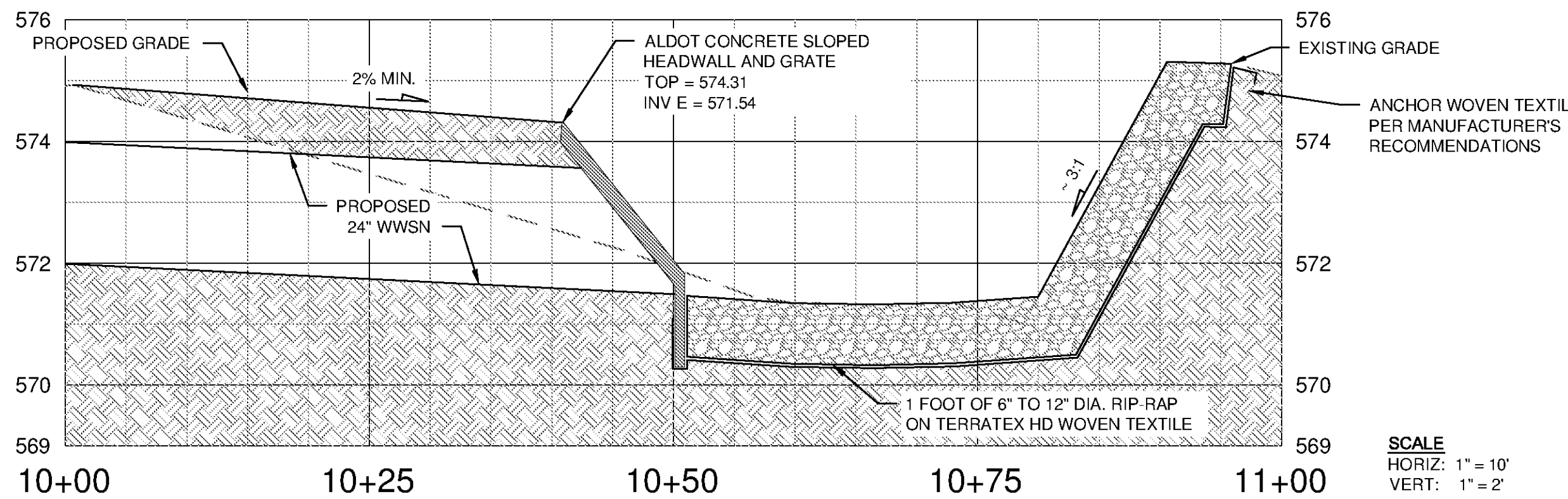
VEE OR CONSTRUCTION JOINT

1 DETAIL
SCALE: N.T.S.

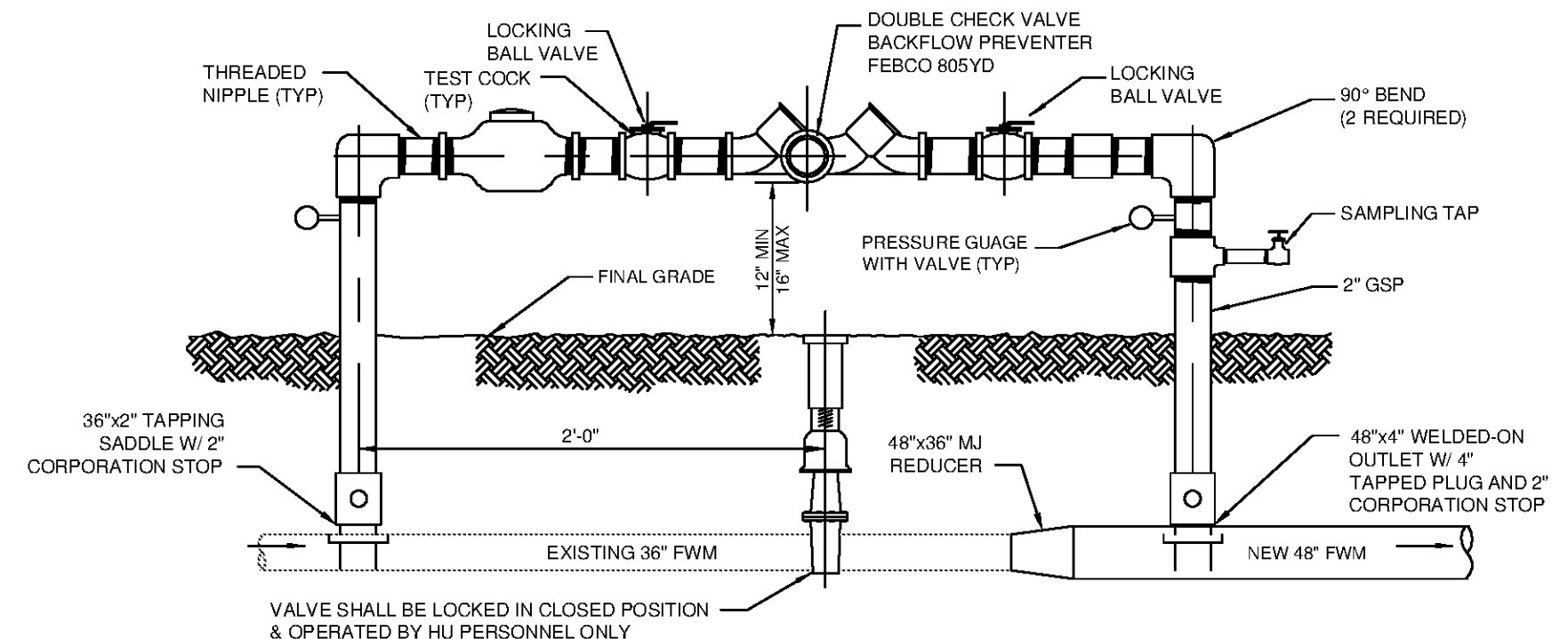


24" WWSN OUTFALL
STRUCTURE DETAIL

3 DETAIL
SCALE: N.T.S.



SCALE
HORIZ: 1" = 10'
VERT: 1" = 2'

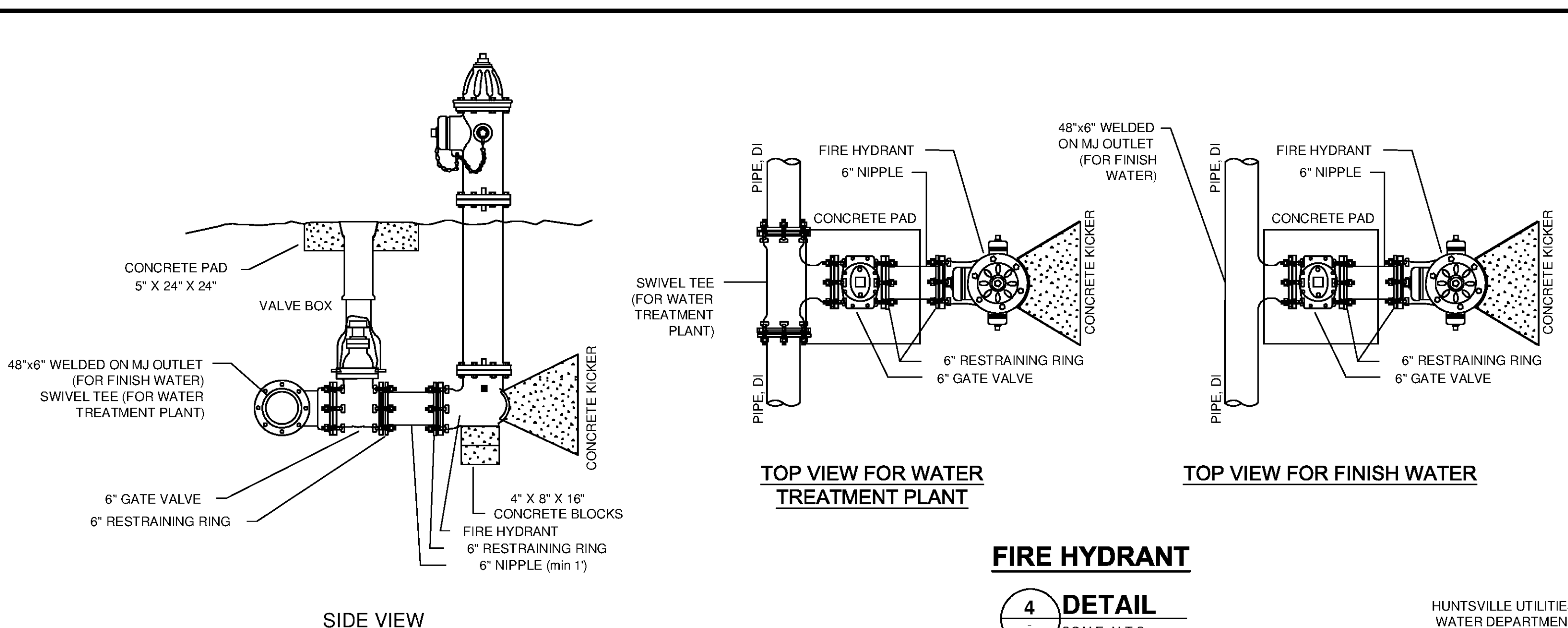


TEMPORARY JUMPER DETAIL NOTES:

- A TEMPORARY JUMPER CONNECTION IS REQUIRED AT THE CONNECTION BETWEEN THE EXISTING ACTIVE WATER MAIN AND PROPOSED NEW WATER MAIN IMPROVEMENTS.
- THE DETAIL SHOWN IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS, AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM ADEM AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C 651, 1992 EDITION. THE TAPPING SLEEVE AND EXTERIOR OF THE MAIN, TO BE TAPPED, SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C 651.
- THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE DOUBLE CHECK BACKFLOW PREVENTION DEVICE HAS BEEN TESTED AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION.
- EXCEPT AS REQUIRED TO FILL THE LINE, THE TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY HUNTSVILLE UTILITIES. THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY ADEM AND ALL OTHER PERTINENT AGENCIES.
- UPON RECEIPT OF CLEARANCE FOR USE FROM ADEM AND ALL OTHER PERTINENT AGENCIES, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS.
- ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVE, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TEMPORARY JUMPER CONNECTION

2 DETAIL
SCALE: N.T.S.



SIDE VIEW

TOP VIEW FOR WATER
TREATMENT PLANT

TOP VIEW FOR FINISH WATER

FIRE HYDRANT

4 DETAIL
SCALE: N.T.S.

HUNTSVILLE UTILITIES
WATER DEPARTMENT
SPEC # 11A

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BID SET
Professional Engineer Seal: ALA. P.E. No. 102274

MARK	DATE	DESCRIPTION	BY

HUNTSVILLE UTILITIES
SOUTHEAST WATER TREATMENT PLANT
STANDARD CIVIL DETAILS

Project No.: 200-11740-10003
Designed By: JRW
Drawn By: WDV
Checked By: JPT

C-9515

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