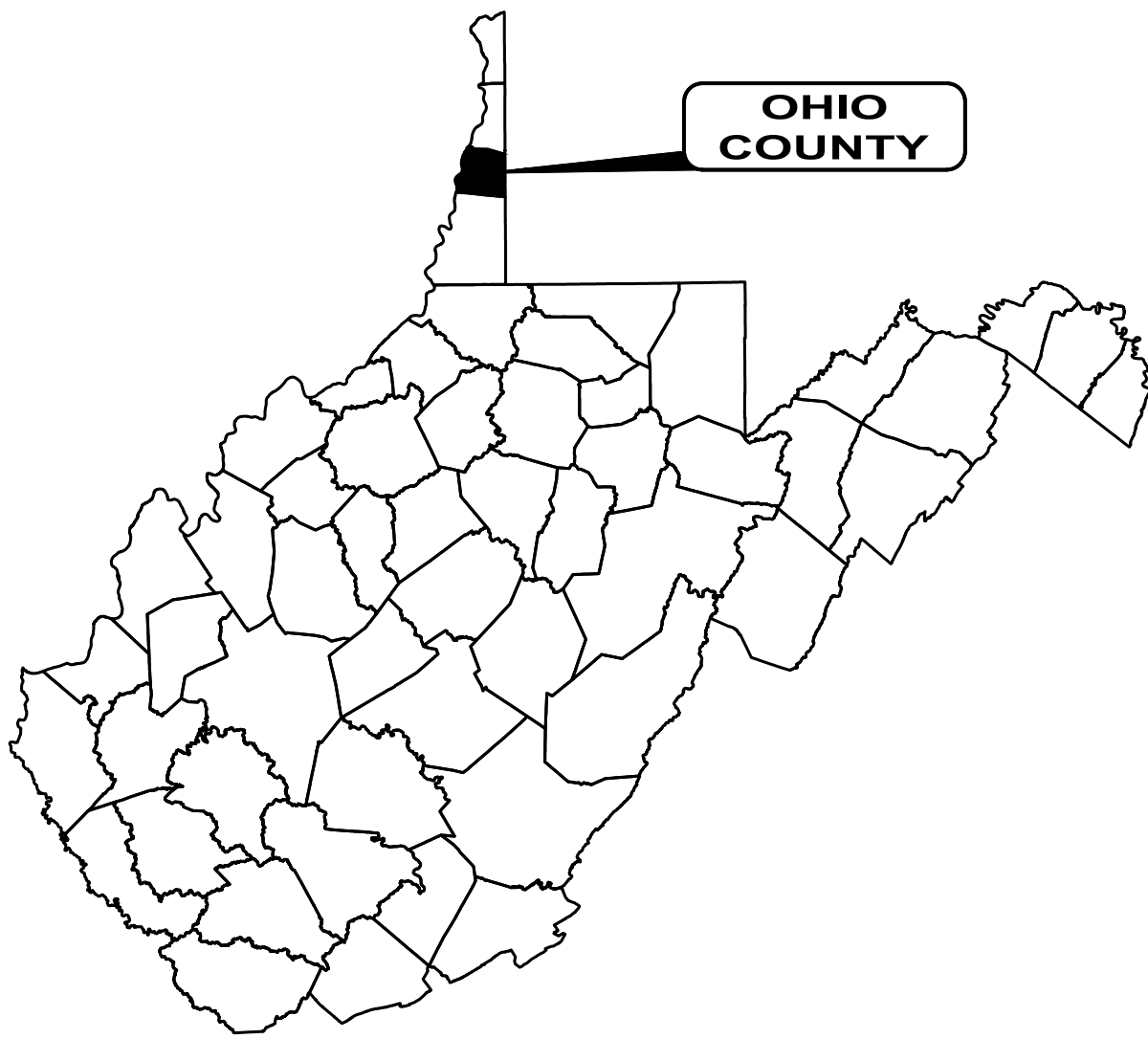




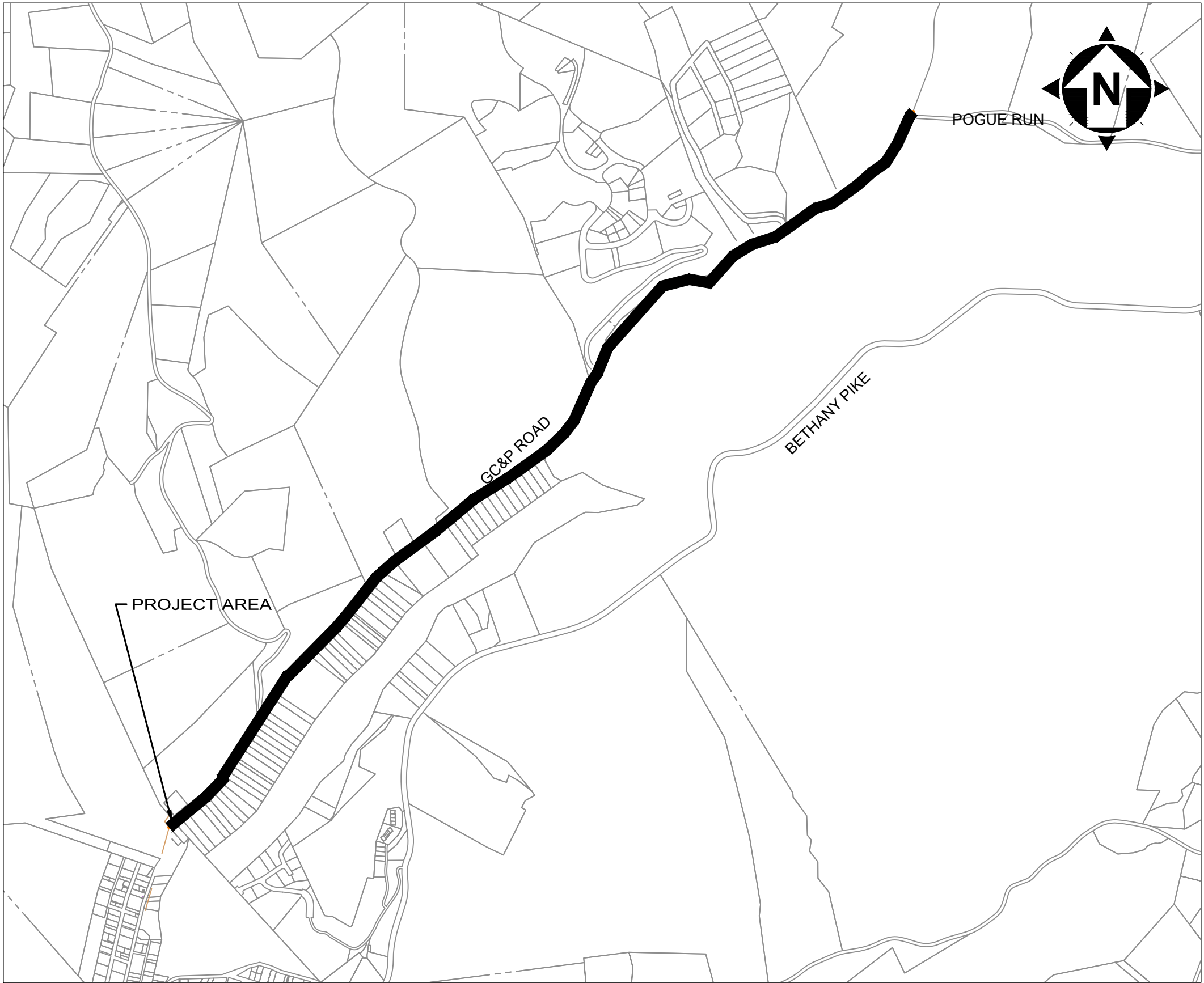
GC&P ROAD SEWER REPLACEMENT PHASE 2

WASTEWATER COLLECTION AND TREATMENT SYSTEM IMPROVEMENTS
2026 BOND FUND

WATER POLLUTION CONTROL DIVISION
CITY OF WHEELING, WV

AUGUST 2026

UTILITY COMPANIES		
NOTE: UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD MARKINGS (BY OTHERS) AND AVAILABLE RECORDS, AND AS SUCH, SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY - CALL BEFORE YOU DIG!		
SEWERS: WATER POLLUTION CONTROL DIVISION 2516 MAIN STREET WHEELING, WV 26003 (304) 234-3874 DANIEL EVANS	WATER: WHEELING WATER DEPT. 9 ARMORY DRIVE WHEELING, WV 26003 (304) 234-3849 MIKE TENLEY	ELECTRIC: AEP 1-800-852-6942 CHRISTINA HARPER (304) 234-3106
STREETLIGHTS: APPALACHIAN POWER (304) 234-3106	GAS: MOUNTAINEER GAS 19TH AND WOOD STREET WHEELING, WV 26003 1-888-420-4427 x 85202 RON TROWBRIDGE (304) 276-2520	GAS: TC ENERGY CLAYTON COSS (724) 809-3239
TELECOMMUNICATIONS FRONTIER 995 MT DECHANTAL ROAD WHEELING, WV 26003 (304) 234-6392 KEITH WESTLAKE (304) 559-9020	TELECOMMUNICATIONS: COMCAST CABLE COMMUNICATIONS INC. GENE HELMS (412) 439-3886	



LOCATION MAP
200' 0' 200'
SCALE: 1" = 200'



OWNER
WATER POLLUTION CONTROL DIVISION 2516 MAIN STREET WHEELING, WV 26003 PHONE: (304) 234-3874 CONTACT: MIKE CHIAZZA EMAIL: MCHIAZZA@WHEELINGWV.GOV

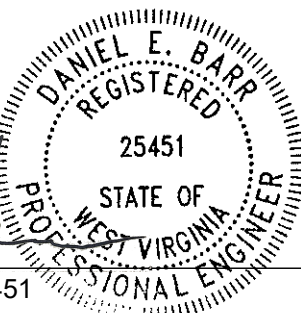
ENGINEER
VERDANTAS 2001 MAIN STREET, SUITE 600 WHEELING, WV 26003 PHONE: (304) 907-4923 CONTACT: LUCAS SKELLY EMAIL: LSKELLY@VERDANTAS.COM

CONSTRUCTION PLAN APPROVALS:

ROBERT HERRON, CITY MANAGER _____ DATE _____

APPROVAL OF THESE PLANS DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. THE REVIEWER DOES NOT ACCEPT RESPONSIBILITY FOR THE INTEGRITY OF THE PLANS.

DESIGN ENGINEER:


DAN BARR, WV P.E. NO. 254451
8/26/2026
DATE _____

verdantas

WATER POLLUTION CONTROL DIVISION
WASTEWATER COLLECTION AND TREATMENT
GC&P SEWER REPLACEMENT PHASE 2

TITLE SHEET

PROJECT NO. 45333 PH 02	
DISCIPLINE CIVIL	
SHEET NAME 00G-01	
SHEET 1	OF 13



SHEET LIST TABLE		
SHEET NUMBER	SHEET TITLE	DRAWING NAME
GENERAL - 00 SERIES		
1	TITLE SHEET	00G-01
2	GENERAL NOTES	00G-02
3	SHEET INDEX	00G-03
4	MAINTENANCE OF TRAFFIC	00G-04
PLAN AND PROFILES		
5	PLAN & PROFILE STA. 17+00 TO STA. 24+00	PP-01
6	PLAN & PROFILE STA. 24+00 TO STA. 31+00	PP-02
7	PLAN & PROFILE STA. 31+00 TO STA. 38+00	PP-03
8	PLAN & PROFILE STA. 38+00 TO STA. 45+00	PP-04
9	PLAN & PROFILE STA. 45+00 TO STA. 52+00	PP-05
STANDARD DETAILS		
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11	STANDARD DETAILS	SD-02

SANITARY STRUCTURE TABLE			
STRUCTURE NAME:	TC (PER PLAN)	NORTHING (PER PLAN)	EASTING (PER PLAN)
S10	790.96	584150.30	1637431.91
S11	791.16	584198.70	1637476.67
S12	795.23	584420.13	1637696.47
S13	798.24	584587.14	1637864.63
S14	800.81	584708.10	1637965.78
S15	806.80	584995.79	1638186.61
S16	808.01	585073.04	1638261.57
S17	812.79	585169.01	1638367.67
S18	816.76	585297.45	1638542.15
S19	819.41	585435.96	1638734.20
S20	822.82	585588.01	1638921.62
S21	825.53	585730.08	1639085.83
S22	827.28	585791.43	1639172.57
S23	834.10	585960.16	1639449.76
S24	839.17	586095.58	1639641.57
S25	843.35	586195.31	1639766.68

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WATER POLLUTION CONTROL DIVISION
WASTEWATER COLLECTION AND TREATMENT
GC&P SEWER REPLACEMENT PHASE 2

PROJECT NO.
45333 PH 02

DISCIPLINE
CIVIL

SHEET NAME
00G-02

SHEET 3 OF 13

GENERAL

1. ALL ITEMS FOR THIS PROJECT SHALL CONFORM TO THE 2017 EDITION OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS (WV DOH) STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES SHALL GOVERN THIS IMPROVEMENT, EXCEPT WHERE NOTED. ALL REFERENCES TO SECTION NUMBERS IN THE FOLLOWING ITEMS REFER TO THE AFOREMENTIONED STANDARD SPECIFICATIONS.
2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS NECESSARY TO COORDINATE FULL-TIME INSPECTION SERVICE FOR THE PROPOSED WORK.
3. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO ENGINEER AT LEAST SEVEN (7) DAYS PRIOR TO ANY CONSTRUCTION.
4. TWENTY-FOUR (24) HOUR ADVANCE NOTIFICATION IS REQUIRED FOR ALL WORK REQUIRING INSPECTION, TESTING, OR APPROVAL BY THE ENGINEER.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND VERIFY THE EXTENT OF THE WORK TO BE PERFORMED PRIOR TO MAKING HIS BID, INCLUDING BUT NOT LIMITED TO THE REMOVAL OF ANY AND ALL ITEMS.
6. THE CONTRACTOR AND SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR AND SUBCONTRACTOR SHALL ALSO ABIDE BY ALL CITY ORDINANCES AND STATE/FEDERAL LAWS. THE CONTRACTORS AND ALL SUBCONTRACTORS SHALL SUBMIT THEIR SAFETY PLANS PRIOR TO CONSTRUCTION. A COMPLETE SET OF PLANS, SPECIFICATIONS AND SAFETY PLAN MUST BE ON THE JOB SITE AT ALL TIMES AND AVAILABLE FOR VIEWING.
7. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOILS OR NOXIOUS FUMES, OPERATIONS SHOULD BE CEASED IMMEDIATELY.

EXISTING UTILITIES

8. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL CLEARANCES EXIST PER THE APPROVED PLANS. THE CONTRACTOR SHALL CALL, TOLL FREE, THE WEST VIRGINIA 811 OR 1-800-245-4848 (WEB SITE WWW.WV811.COM) FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
9. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CITY AND/OR ENGINEER OF RECORD (EOR) ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THE LOCATIONS OR DEPTHS OF THE UNDERGROUND FACILITIES AS SHOWN ON THE PLANS. CONTRACTOR MUST GIVE ADEQUATE NOTICE TO THE APPROPRIATE UTILITY COMPANY BEFORE ANY EXCAVATION NEAR A KNOWN UTILITY PER STATE LAW. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS.
10. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
11. WHERE POTENTIAL CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF LAYING PIPE OR DUCT FOR THE EOR TO DETERMINE THE EXACT ELEVATION AND MAKE ANY NECESSARY ADJUSTMENTS. COST OF THE ABOVE SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS IN THE CONTRACT.
12. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY AND ALL EXISTING WORK DAMAGED DURING OR DUE TO THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION PRIOR TO THE DAMAGE. AT THE CONTRACTOR'S OWN EXPENSE. ALL SAID WORK TO BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO OTHER UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE APPROPRIATE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
13. ANY EXISTING UTILITY (GAS, ELECTRIC, CABLE TELEVISION, TELEPHONE, WATER LINE, STORM OR SANITARY APPURTENANCE, ETC.) IN OR OUTSIDE THE CONSTRUCTION LIMITS DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE UTILITY.
14. TEMPORARY RELOCATION OF ELECTRICAL UTILITIES, INCLUDING RESTRAINT OF POLES, RELOCATION OF POLES, AND RUBBER COVERING OF ENERGIZED CONDUCTORS MAY BE REQUIRED. THE COORDINATION AND COST OF THESE SERVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MA RESTRAIN POLES IF THE METHOD OF SUPPORT HAS BEEN SUBMITTED TO AND APPROVED BY THE UTILITY COMPANY.
15. THE UTILITY WILL ONLY LOCATE AND MARK MAIN LINE SEWERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATIONS ALL SERVICE LATERALS WHETHER SHOWN ON PLANS OR NOT

EXISTING CONDITIONS

16. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS AND STAKES AND IN CASE OF WILLFUL OR CARELESS DESTRUCTION, HE SHALL BE CHARGED WITH THE RESULTING EXPENSE OF REPLACEMENT AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE. ANY EXISTING PROPERTY CORNER PINS OR MONUMENTS DAMAGED OR DESTROYED BY CONSTRUCTION SHALL BE RESET BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE UPON COMPLETION OF THE PROJECT PRIOR TO FINAL PAYMENT. A CERTIFICATION SHALL BE FURNISHED BY A WV REGISTERED SURVEYOR, STATING THAT SAID DAMAGES HAVE BEEN RESTORED. THE CONTRACTOR SHALL PROVIDE SITE EROSION CONTROL TO PREVENT RUNOFF WATER FROM THE SITE FROM CARRYING SAND, SILT, DIRT, ETC. ONTO PRIVATE PROPERTY, OR INTO ANY STORM SEWER OR DRAINAGE CHANNEL. EROSION CONTROL SHALL CONFORM WITH THE REQUIREMENTS OF SPECIFICATIONS AND DRAWINGS.
17. CARE SHALL BE EXERCISED WHEN WORKING THE AREA AROUND EXISTING TREES AND SHRUBS. ANY TREES OR SHRUBS NOT MARKED FOR REMOVAL THAT ARE DAMAGED BY THE CONTRACTOR WILL HAVE TO BE REPLACED BY THE CONTRACTOR, AT HIS EXPENSE AND TO THE SATISFACTION OF THE OWNER.
18. EXISTING SANITARY FLOWS SHALL BE MAINTAINED AND PROPERLY BYPASSED ACCORDING TO PROJECT SPECIFICATIONS.

DISPOSAL OF MATERIALS

19. THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL CONSTRUCTION DEBRIS INCLUDING BUT NOT LIMITED TO EXCESS SOIL, ROCK, OR ANY OTHER TYPE MATERIALS. THE CONTRACTOR SHALL NOT FILL ANY WETLANDS, LOW LANDS, FLOOD PLAINS, OR DRAINAGE WAYS WITH SAID DEBRIS WITHOUT OBTAINING PROPER APPROVALS, PERMITS, LICENSES, ETC. FROM LOCAL, STATE, OR FEDERAL AGENCIES.
20. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF MATERIALS TAKEN FROM EXCAVATIONS.
21. THE OPEN BURNING OF SITE CLEARING DEBRIS, TRASH, ETC. IS PROHIBITED IN THE CITY.

RESTORATION

22. ALL MAIL BOXES AND TRAFFIC CONTROL SIGNS ENCOUNTERED DURING CONSTRUCTION SHALL BE REPLACED IMMEDIATELY AFTER THE SEWER HAS BEEN INSTALLED AND BACKFILLED. PROVIDE TEMPORARY MAIL BOXES FOR DISRUPTIONS GREATER THAN 24 HOURS.
23. RESTORATION IN MOST CASES SHALL BE PERFORMED ACCORDING TO THE CITY OF WHEELING TRENCH DETAILS AS SHOWN ON THE DETAIL SHEET. ANY EXCEPTIONS TO THIS RESTORATION METHOD ARE PRESENTED IN THE PLAN SHEETS ON A CASE BY CASE BASIS.

ADDITIONAL CLARIFYING NOTES

24. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH PROPERTY OWNERS.

TREE CLEARING

25. ITEM SHALL CONFORM TO SECTION 201 OF THE WVDOT SPECIFICATION MANUAL. ITEM SHALL BE PAID ON A SQUARE FOOT (SF) BASIS.
26. NO CLEARING SHALL TAKE PLACE OUTSIDE OF THE DESIGNATED WORK LIMITS.
27. TREE CLEARING SHALL BE BASED ON QUANTITY SHOWN ON THE BID FORM. AFTER THE PROJECTS IS AWARDED, A SELECTIVE TREE CLEARING WALKTHROUGH SHALL BE SCHEDULED WITH THE CONTRACTOR, ENGINEER, AND OWNER, AND SPECIFIC TREES WILL BE MARKED FOR CLEARING. ONLY THOSE TREES THAT ARE MARKED FOR CLEARING SHALL BE CUT DOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OR PAYMENT FOR TREES THAT ARE CUT THAT WERE NOT MARKED AS PART OF THE SELECTIVE TREE CLEARING WALK THROUGH, AT A PRICE DETERMINED BY THE OWNER AND THE ENGINEER.

CONSTRUCTION LAYOUT STAKES

28. ITEM SHALL CONFORM TO SECTION 639 OF THE WVDOT SPECIFICATION MANUAL. ITEM SHALL BE PAID ON A LUMP SUM (LS) BASIS.

PAVEMENT WVDOT SECTION

ITEM 401002 - 2" SUPERPAVE SKID RESISTANT COURSE TYPE 12.5 SHALL CONFORM TO SECTION 401 OF THE WVDOT SPECIFICATION MANUAL. THE UNIT OF MEASURE SHALL BE SQUARE YARDS (SY) INSTALLED, MEASURED IN PLACE.

ITEM 415005 2" MILLING SHALL CONFORM TO SECTION 415 OF THE WVDOT SPECIFICATION MANUAL. AFTER MILLING OCCURS THE AREA SHALL BE FILLED WITH 2" TYPE 4 MARSHALL ASPHALT SKID RESISTANT COURSE AS SHOWN ON THE LIMITS OF WORK ON THE PLANS. THE UNIT OF MEASURE SHALL BE SQUARE YARDS (SY).

ITEM 408002 TACK COAT SHALL CONFORM TO SECTION 408 OF THE WVDOT SPECIFICATION MANUAL. THE UNIT OF MEASURE SHALL BE GALLONS.

ITEM 663001-001 EDGE LINE TYPE II, 6 INCH, WHITE. THIS ITEM SHALL CONFORM TO SECTION 663 OF THE WVDOT SPECIFICATION MANUAL AND SUBSECTIONS OF DIVISION 711.41 OF THE STANDARD SPECIFICATIONS. THIS ITEM SHALL BE A CONTINUOUS LINE. THE UNIT OF MEASURE WILL BE LINEAR FOOT (LF).

ITEM 663001-002 TEMPORARY PAVEMENT MARKING EDGE LINE WHITE TRAFFIC PAINT, 6 INCH, WHITE. THIS ITEM SHALL CONFORM TO SECTION 663 OF THE WVDOT SPECIFICATION MANUAL AND SUBSECTIONS OF DIVISION 715.40.4 OF THE STANDARD SPECIFICATIONS. THIS ITEM SHALL BE A CONTINUOUS SINGLE LINE. THE UNIT OF MEASURE WILL BE LINEAR FOOT (LF).

ITEM 663002-001 CENTER LINE TYPE II, 6 INCH, YELLOW. THIS ITEM SHALL CONFORM TO SECTION 663 OF THE WVDOT SPECIFICATION MANUAL AND SUBSECTIONS OF DIVISION 711.41 OF THE STANDARD SPECIFICATIONS. THIS ITEM SHALL BE A CONTINUOUS LINE. THE UNIT OF MEASURE WILL BE LINEAR FOOT (LF).

ITEM 663002-002 TEMPORARY PAVEMENT MARKING CENTERLINE YELLOW TRAFFIC PAINT, 6 INCH, YELLOW. THIS ITEM SHALL CONFORM TO SECTION 663 OF THE WVDOT SPECIFICATION MANUAL AND SUBSECTIONS OF DIVISION 715.40.4 OF THE STANDARD SPECIFICATIONS. THIS ITEM SHALL BE A CONTINUOUS SINGLE LINE. THE UNIT OF MEASURE WILL BE LINEARFOOT (LF).32. ITEM 663001-001 EDGE LINE TYPE II, 6 INCH, WHITE. THIS ITEM SHALL CONFORM TO SECTION 663 OF THE WVDOT SPECIFICATION MANUAL AND SUBSECTIONS OF DIVISION 711.41 OF THE STANDARD SPECIFICATIONS. THIS ITEM SHALL BE A CONTINUOUS LINE. THE UNIT OF MEASURE WILL BE LINEAR FOOT (LF).

33. ITEM 663001-002 TEMPORARY PAVEMENT MARKING EDGE LINE WHITE TRAFFIC PAINT, 6 INCH, WHITE. THIS ITEM SHALL CONFORM TO SECTION 663 OF THE WVDOT SPECIFICATION MANUAL AND SUBSECTIONS OF DIVISION 715.40.4 OF THE STANDARD SPECIFICATIONS. THIS ITEM SHALL BE A CONTINUOUS SINGLE LINE. THE UNIT OF MEASURE WILL BE LINEAR FOOT (LF).

34. ITEM 663002-001 CENTER LINE TYPE II, 6 INCH, YELLOW. THIS ITEM SHALL CONFORM TO SECTION 663 OF THE WVDOT SPECIFICATION MANUAL AND SUBSECTIONS OF DIVISION 711.41 OF THE STANDARD SPECIFICATIONS. THIS ITEM SHALL BE A CONTINUOUS LINE. THE UNIT OF MEASURE WILL BE LINEAR FOOT (LF).

35. ITEM 663002-002 TEMPORARY PAVEMENT MARKING CENTERLINE YELLOW TRAFFIC PAINT, 6 INCH, YELLOW. THIS ITEM SHALL CONFORM TO SECTION 663 OF THE WVDOT SPECIFICATION MANUAL AND SUBSECTIONS OF DIVISION 715.40.4 OF THE STANDARD SPECIFICATIONS. THIS ITEM SHALL BE A CONTINUOUS SINGLE LINE. THE UNIT OF MEASURE WILL BE LINEAR FOOT (LF).

SANITARY SEWER

36. SANITARY SEWER PIPE - PIPE SHALL BE PVC SDR 35 (ASTM D3034) PVC PIPE SHALL CONFORM TO SECTION 675 AND SUBSECTION 714.22 OF THE WVDOT SPECIFICATION MANUAL. ITEM SHALL BE PAID ON A LINEAR FOOT (LF) BASIS AND SHALL INCLUDE THE PIPE MATERIAL, BEDDING MATERIAL INSTALLATION, AND SUITABLE MATERIAL TO BE REUSED FOR TRENCH REPLACEMENT.

38. 8" DUCTILE IRON PIPE SHALL CONFORM TO AWWA C151, ASTM A536 AND ANSI A21.50, AND ADDITIONAL REQUIREMENTS OUTLINED WITHIN THE PROJECT SPECIFICATIONS. ITEM SHALL BE PAID ON A LINEAR FOOT (LF) BASIS AND SHALL INCLUDE THE PIPE MATERIAL, INSTALLATION, AND SUITABLE MATERIAL TO BE REUSED FOR TRENCH REPLACEMENT.

39. ALL MANHOLES SHALL BE WVDOT TYPE A MANHOLES ACCORDING TO DETAILS. ITEM SHALL BE PAID ON AN EACH (EA) BASIS AND IS TO INCLUDE ALL EQUIPMENT, MATERIAL, INSTALLATION, AND LABOR.

40. UPON COMPLETION OF THE NEW SANITARY, EXISTING MANHOLES (AS INDICATED ON THE PLANS) SHALL BE ABANDONED IN-PLACE. THIS ITEM SHALL CONFORM TO ACCORDANCE WITH SECTION 675 OF THE WVDOT SPECIFICATIONS MANUAL. PULLED MANHOLE FRAMES ARE TO BE RETURNED TO WPCD. ABANDONED MANHOLES THAT ARE NOT COMPLETELY REMOVED SHALL HAVE THE TOP TWO FEET REMOVED AND SHALL BE BACKFILLED WITH RECRETE. JUST PAST INVERTS THEN BACKFILLED WITH SUITABLE MATERIAL. GRADING OR PAVING IN THE ABANDONED MANHOLE LOCATION SHALL BE RESTORED PER TRENCHING OR PAVING DETAILS AS SHOWN IN THE PLANS.

41. WYDOW TRENCH A TO BE USED AS CALLED OUT IN THE PROFILES IN THE PLAN SET. WHERE THE TRENCH IS OUTSIDE THE PAVEMENT SECTION TRENCH A-DITCH DETAIL SHALL BE USED.

42. ALL TRENCH WORK IS TO STAY IN ONE LANE UNLESS OTHERWISE SHOWN IN THE PLANS OR WHERE CROSSINGS ARE SHOWN. IF THE TRENCH WORK CROSSES THE CENTERLINE THE ENTIRE PAVEMENT SECTION IS TO BE MILLED AND RESURFACED. THIS MILL AREA SHALL OCCUR AN EXTRA 10' ON BOTH SIDE OF THE CENTERLINE CROSSING AND SHALL BE AT THE CONTRACTORS EXPENSE.

43. COST OF ALL LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE TRENCH WORK TO THE SURFACE OF THE EXISTING PAVEMENT IN ACCORDANCE OF THE DETAILS IN THE PLANS SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE.

44. TRAFFIC IS TO BE MAINTAINED AT ALL TIMES BY THE USE OF APPROPRIATE TRAFFIC CONTROL DEVICES. USE OF METAL PLATES WITH SUFFICIENT RIGIDITY TO SPAN TYPE A TRENCH IS REQUIRED TO PREVENT WHEEL LOADS FROM BEING TRANSMITTED TO THE CLSM. THE PLATES ARE TO BE SECURELY ANCHORED TO PREVENT MOVEMENT CAUSED BY TRAFFIC. THE PLATES ARE TO BE LEFT IN PLACE UNTIL THE CLSM ATTAINS 50% OF ITS COMPRESSIVE STRENGTH. COST OF SUCH PLATES ARE TO BE INCLUDED IN THE UNIT PRICE FOR PIPE.

MOBILIZATION

45. ITEM SHALL CONFORM TO SECTION 204 OF THE WVDOT SPECIFICATION MANUAL. THIS ITEM SHALL INCLUDE PERFORMANCE OF CONSTRUCTION PREPARATORY OPERATIONS, INCLUDING THE MOVEMENT OF PERSONNEL AND EQUIPMENT TO THE PROJECT SITE, PERMITS, BONDING AND INSURANCE. MAXIMUM PAYMENT FOR THIS ITEM WILL BE 50% ON FIRST PAY REQUEST AND BALANCE WILL BE PAID ON FINAL PAY REQUEST. ITEM SHALL BE PAID IN LUMP SUM (LS) BASIS.

MAINTENANCE OF TRAFFIC

46. ITEM SHALL CONFORM TO SECTION 636 OF WVDOT SPECIFICATION MANUAL AND DETAILS ON THE CONSTRUCTION PLAN SET. ITEM SHALL BE LUMP SUM(LS) BASIS. ANY IMPACTS TO ACCESS MUST BE COORDINATED WITH PROPERTY OWNERS A MINIMUM OF 24-HOUR IN ADVANCE. THE CONTRACTORS SHALL PROVIDE UPDATES TO THE CITY WITH TRAFFIC IMPACTS SEVEN DAYS PRIOR TO MAKING CHANGES. CHANGES TO THE MAINTENANCE OF TRAFFIC PLAN, CLOSURES, AND WEEKLY UPDATES SHALL BE SENT TO THE ENGINEER AND OWNER. TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF WHEELING POLICE AND WVDOT. PARKING CHANGES MUST BE POSTED ALONG THE STREET IMPACTED A MINIMUM OF 24-HOURS IN ADVANCE.

47. ROADWAYS SHALL ONLY BE CLOSED ONE LANE AT A TIME. PROVIDE A SIGNED PEDESTRIAN DETOUR, ROADWAY CLOSED AHEAD SIGNS, AND PEDESTRIAN BARRICADES.

48. THE CONTRACTOR SHALL COORDINATE INDIVIDUALLY WITH BUSINESS OWNERS ALONG THE ALIGNMENT TO ENSURE THAT TRUCK AND SHIFT TRAFFIC WILL NOT BE IMPEDED BY CONSTRUCTION. A SCHEDULE SHALL BE DEVELOPED THAT IS AGREED UPON BETWEEN THE BUSINESS OWNER AND CONTRACTOR.

49. TEMPORARY LIGHTING MAY BE USED IN LIEU OF FLAGMEN, IN ACCORDANCE WITH THE WVDOT MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS, 2006 EDITION, SPECIFICALLY DESCRIBED IN SECTION F.75 THROUGH F.80 OF THE MANUAL. IN ALL CASES THE MAINTENANCE OF TRAFFIC PLAN SHALL BE APPLIED AND ADHERED TO.

SPECIAL ITEMS

50. ITEM SPECIAL - CONCRETE ENCASEMENT FOR SANITARY SEWER

THE CONTRACTOR SHALL PROVIDE CLASS C CONCRETE AS PER THE REQUIREMENTS IN SECTION 601 OF THE WVDOT SPECIFICATIONS MANUAL. THE CONCRETE SHALL BE POURED UNIFORMLY AROUND THE 8" PVC PIPE AT A THICKNESS OF NO LESS THAN 6 INCHES, AS SHOWN ON THE PLANS. ITEM SHALL BE PAID ON A LINEAR FOOT (LF) BASIS.

51. ITEM SPECIAL - LATERAL REPLACEMENT

LATERAL LOCATIONS SHOWN ON PLANS ARE APPROXIMATE BASED ON STATIONING PROVIDED FROM SEWER INSPECTION AND CITY MAPPING. CONTRACTOR SHALL FIELD LOCATE EACH LATERAL DURING CONSTRUCTION. ANY ENCOUNTERED PRIVATE LATERALS SHALL BE CONNECTED TO THE SANITARY SEWER PER THE SEWER LATERAL DETAIL. LATERALS SHALL BE CONSTRUCTED TO THE RIGHT-OF-WAY LINE. IN CASES WHERE EXISTING LATERALS ARE DIRECTLY CONNECTED TO MANHOLES, THE LATERALS SHALL BE CONNECTED TO THE NEW MANHOLES. THIS ITEM SHALL INCLUDE ALL COMPONENTS SHOWN ON THE LATERAL DETAIL AND IS TO BE PAID ON A LINEAR FOOT (LF) BASIS.

52. ITEM SPECIAL - CLEANOUT

THE CONTRACTOR SHALL PROVIDE A STANDARD PVC CLEANOUT AND CAP FOR EACH NEW LATERAL, TO BE PLACED AT THE RIGHT-OF-WAY LINE OR AS CLOSELY AS POSSIBLE TO THE RIGHT-OF-WAY LINE IF A AN EXISTING UTILITY CONFLICTS WITH THE LOCATION. CLEANOUTS SHALL NOT BE PLACED IN DRIVEWAYS. THIS ITEM SHALL BE PAID ON AN EACH (EA) BASIS.

53. ITEM SPECIAL - CAPPED WYE

THE CONTRACTOR SHALL PROVIDE CAPPED WYES AS SHOWN ON PLAN. THIS ITEM SHALL BE PAID ON AN EACH (EA) BASIS.

54. ITEM SPECIAL - UNSUITABLE BACKFILL CONTINGENCY

THE CONTRACTOR SHALL PROVIDE SUITABLE BACKFILL MATERIAL IN THE CASE THAT THE EXISTING MATERIAL IS UNSUITABLE FOR

CONSTRUCTION. SUITABILITY FOR CONSTRUCTION SHALL BE AS DESCRIBED IN SECTIONS 207 AND 716 OF THE WVDOT SPECIFICATIONS MANUAL. HOWEVER, THE ENGINEER RESERVES THE RIGHT TO DETERMINE THE SUITABILITY OF BACKFILL MATERIAL. AN ESTIMATE FOR THE REQUIRED AMOUNT OF SUITABLE BACKFILL MATERIAL HAS BEEN INCLUDED IN THE TABLE OF ESTIMATED QUANTITIES, AND SHALL BE PAID ON A CUBIC YARD (CY) BASIS.

55. ITEM SPECIAL- SEWER PIPE REMOVAL

ALL WORK, LABOR, MATERIAL, EQUIPMENT, AND EXCAVATION REQUIRED TO SEAL THE EXISTING CONNECTION SHALL BE INCLUDED WITH THIS PAY ITEM. SEWER PIPE REMOVAL SHALL BE PAID ON A LINEAR FOOT (LF) BASIS.

55. ITEM SPECIAL- MANHOLE REMOVAL

ALL WORK, LABOR, MATERIAL, EQUIPMENT, AND EXCAVATION REQUIRED TO SEAL THE EXISTING CONNECTION SHALL BE INCLUDED WITH THIS PAY ITEM. MANHOLE REMOVAL SHALL BE PAID ON AN EACH (EA) BASIS.

56. ITEM SPECIAL -DRIVEWAY REPLACEMENT

WORK IS TO BE PAID FOR ON A PER SQUARE YARD (SQ YD) BASIS. ALL WORK, LABOR, MATERIAL, DISPOSAL, AGGREGATE, EQUIPMENT, AND EXCAVATION. ITEM SHALL INCLUDE ALL WORK NECESSARY TO COMPLETE THE WORK. SHALL BE INCLUDED WITH THIS PAY ITEM.

57. ITEM SPECIAL- MARKER TAPE AND LOCATOR WIRE UNDER DOH ROADWAY

THE CONTRACTOR SHALL FURNISH MARKER TAPE AND LOCATOR WIRE FOR THE PROPOSED SEWER WITHIN THE WVDOT ROADWAY CURB-TO-CURB. LOCATOR WIRE MUST BE INSTALLED BY THE CONTRACTOR DURING PIPE INSTALLATION. ITEM SHALL BE PAID ON A LINEAR FOOT (LF) BASIS

58. ITEM SPECIAL- BULKHEAD FOR SEWER

THE CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A SEWER ADJUSTMENT AS SHOWN ON THE CONSTRUCTION DRAWINGS AS DETAILS. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE AT HIS OWN EXPENSE THAT OCCURS TO THE ADJACENT MANHOLE AS A RESULT OF THE BULKHEAD CONSTRUCTION. ITEM SHALL BE PAID ON AN EACH (EA) BASIS.

59. ITEM SPECIAL- SEWER FLOW CONTROL

SEWER FLOW CONTROL WORK IS TO BE PERFORMED IN ACCORDANCE WITH SPECIFICATION. ITEM SHALL BE PAID ON A LUMP SUM (LS) BASIS.

60. ITEM SPECIAL-CONNECT NEW MANHOLE TO EXISTING SANITARY

ALL WORK, LABOR, MATERIAL, BACKFILL, EQUIPMENT, AND EXCAVATION REQUIRED TO CONNECT NEW MANHOLE TO AN EXISTING SEWER SHALL BE INCLUDED WITH THIS PAY ITEM. CONNECTION SHALL BE WATERTIGHT, PER DETAIL. WORK IS TO BE PAID FOR ON AN EACH (EA) BASIS.

61. ITEM SPECIAL - EROSION CONTROL

THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH WVDEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL WITH LAST REVISION DATE OF AUGUST 29, 2016. DAMAGE TO PROPERTY AS A RESULT OF INADEQUATE EROSION CONTROL MEASURES SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. ITEM SHALL BE PAID ON A LUMP SUM (LS) BASIS.

62. ITEM SPECIAL- SEEDING AND MULCHING (WHEELING)

THE CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, MATERIAL AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL SURFACE COVERING. THIS ITEM SHALL INCLUDE ALL NECESSARY GRADING, TOPSOIL, FERTILIZER, WATER, SEED AND MULCH TO REPLACE THE DISTURBED OR DAMAGED AREA, COMPLETE AND IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ITEM SHALL INCLUDE ALL WORK NECESSARY TO COMPLETE THE ITEM IN ACCORDANCE WITH WVDOT SPECIFICATIONS AND THE NOTES OUTLINED IN THESE PLANS. THE UNIT OF MEASURE SHALL BE SQUARE YARDS (SY), COMPUTED BY MULTIPLYING THE LENGTH OF THE DISTURBED AREA AS MEASURED ALONG THE CENTERLINE OF THE PIPE, TIMES THE WIDTH OF THE DISTURBED AREA, BUT IN NO CASE SHALL THE LIMITS OF PAYMENT ON EITHER SIDE OF THE PIPE BE MORE THAN THE WORK LIMITS SHOWN ON THE DRAWINGS. DAMAGED AREAS OUTSIDE OF THE LIMITS WILL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

63. ITEM SPECIAL- DOCUMENTATION OF SITE

THE CONTRACTOR SHALL VIDEO RECORD THE PROJECT SITE PRIOR TO START OF ACTIVITIES IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THIS VIDEO DOCUMENTATION IS TO INCLUDE HAWK COURT TO INTERSECTION OF EAGLE AVENUE. THE CONTRACTOR SHALL PROVIDE ONE COPY OF VIDEO TO ENGINEER AND OWNER IN ELECTRONIC FORM ON USB MEMORY DEVICE. ITEM SHALL BE PAID ON A LUMP SUM (LS) BASIS.

EX. BUILDING

EX. CONTOUR

CENTER LINE

EX. R/W

EX. PROPERTY LINE

EX. FENCE

EX. WAT

EX. ELECTRIC

EX. SAN

EX. STM

EX. GAS

EX. OH UTIL

EX. FIBER OPTIC

EX. DRIVEWAY

EX. EASEMENT

EX. VEGETATION

PR. MILLING

PR. TRENCH

PR. SANITARY LINE

PR. SAN. LATERAL REPLACEMENT

EXISTING SAN. LATER

EXISTING WATER VALVE

EXISTING FIRE HYDRANT

EXISTING CURB INLET

EXISTING CATCH BASIN

EXISTING GAS METER

EXISTING UTILITY POLE

EXISTING TRAFFIC CONTROL POLE

EXISTING LIGHT POLE

EXISTING GUY WIRE

EXISTING CABLE TV PEDESTAL

EXISTING SIGN

EXISTING MAILBOX

SURVEY BENCHMARK

PROPOSED SANITARY MANHOLE

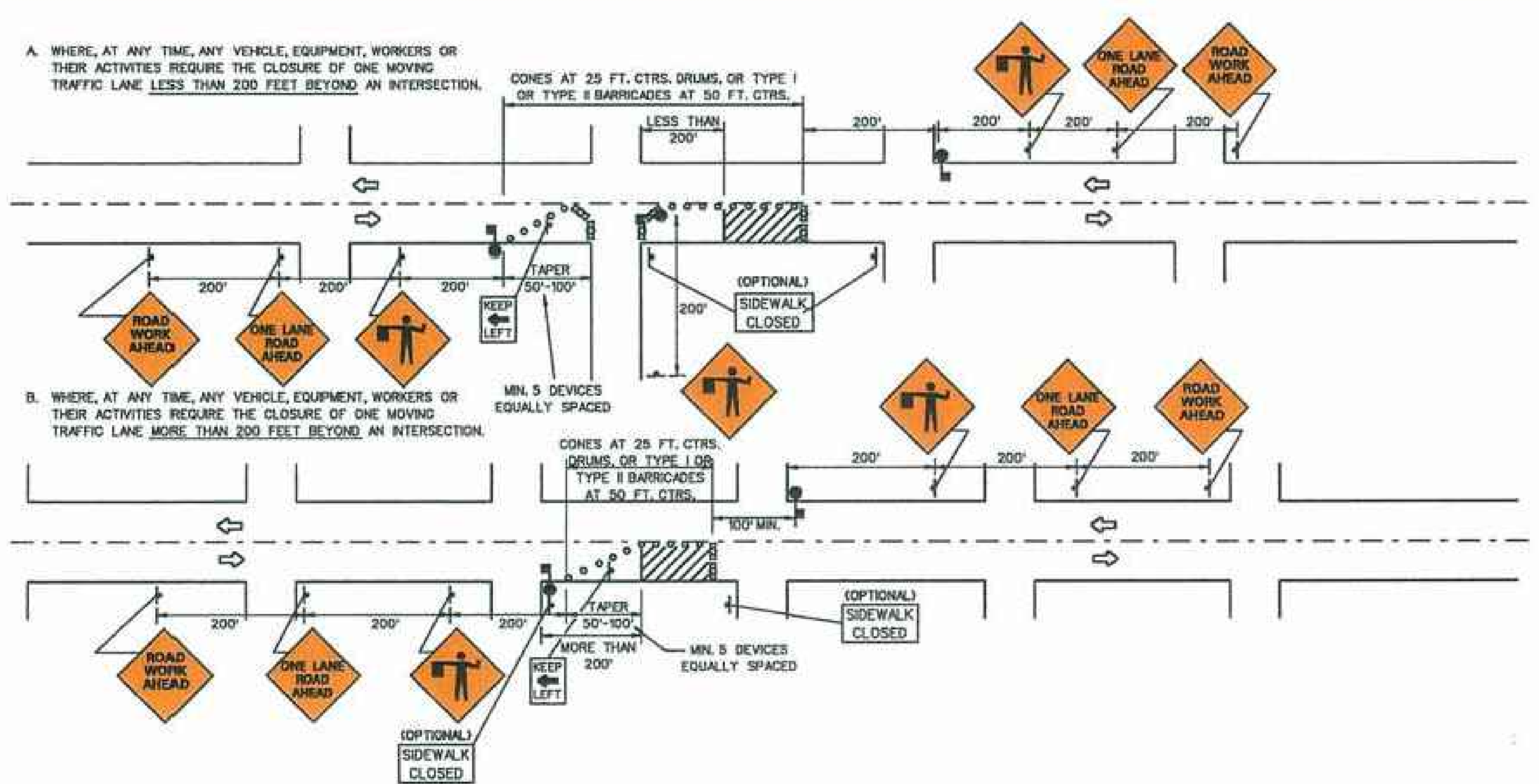
WATER POLLUTION CONTROL DIVISION WASTEWATER COLLECTION AND TREATMENT GC&P SEWER REPLACEMENT PHASE 2		ISSUED FOR:		REVIEW	NO	REVISION	DATE
		ISSUE DATE:		4/28/2026			
		SCALE:		AS NOTED			
		DESIGNED BY:		LAS			
		DRAWN BY:		RLM			
		CHECKED BY:		LAS			
GENERAL NOTES							
PROJECT NO.							
45333 PH 02							
DISCIPLINE							
CIVIL							
SHEET NAME							
00G-03							
SHEET				OF			
2				13			

CONTRACTOR(S) SHALL CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE CONTRACTOR IS DIRECTED TO VERIFY ALL QUANTITIES PRIOR TO PREPARING AND SUBMITTING THEIR BID. ANY ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS INDICATED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR THE VARIOUS BID ITEMS.

DATE	
REVISION	
NO	
REVIEW	
ISSUED FOR	4/29/2026
ISSUE DATE	AS NOTED
SCALE	LAS
DESIGNED BY	RLM
DRAWN BY	LAS
CHECKED BY	LAS

WATER POLLUTION CONTROL DIVISION WASTEWATER COLLECTION AND TREATMENT GC&P SEWER REPLACEMENT PHASE 2	MAINTENANCE OF TRAFFIC
---	------------------------

PROJECT NO.	453333 PH 02
DISCIPLINE	CIVIL
SHEET NAME	00G-04
SHEET	4
OF	13



SYMBOLS

- TYPE I OR TYPE II BARRICADES WITH FLASHING LIGHT (TYPE "A").
- WORK AREA.
- SIGN
- CONES OR DRUMS (TYPE II BARRICADES OPTIONAL).
- SIGN ON PORTABLE OR PERMANENT SUPPORT.
- FLAGGER WITH PADDOLE.

GENERAL NOTES

- DRUMS OR TYPE II BARRICADES SHALL BE USED IN LIEU OF CONES FOR NIGHT OPERATIONS.
- IF THE WORK OPERATION PERFORMED DOES NOT EXCEED 15 MINUTES, SIGNING SHALL BE IN CONFORMANCE WITH CASE A0.
- WHERE THE WORK AREA EXTENDS THROUGH THE INTERSECTION, BARRICADES AND/OR ADEQUATE WARNING SIGNS SHALL BE ERECTED ON THE CROSS STREET.
- IF THE WORK AREA IS IN THE PARKING LANE A ROAD WORK AHEAD SIGN SHALL BE INSTALLED 200 FT. IN ADVANCE OF THE WORK AREA AND THE WORK AREA PROTECTED WITH CONES, DRUMS OR BARRICADES.
- CONSTRUCTION OPERATIONS SHALL BE CONFINED TO ONE TRAFFIC LANE, LEAVING THE OPPOSITE LANE OPEN TO TRAFFIC. AT LEAST 500 FT. OF BOTH TRAFFIC LANES SHALL BE AVAILABLE FOR TRAFFIC MOVEMENT AT INTERVALS NOT GREATER THAN 1,000 FT.
- THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS THREE DAYS.
- FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ABOVE WARNING SIGNS, AS NEEDED ON THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER.
- ALL VEHICLES, EQUIPMENT, WORKERS (EXCEPT FLAGGERS) AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

CASE B1

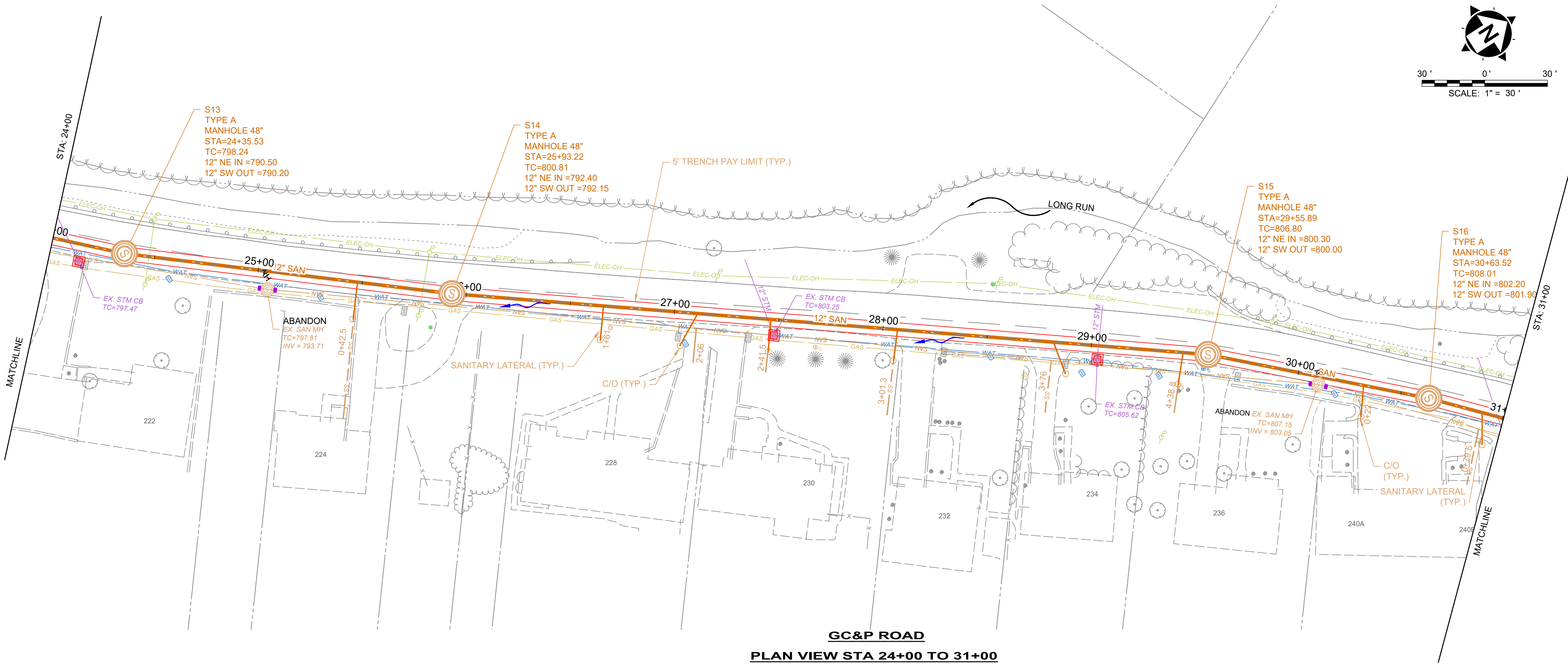
TWO-LANE, TWO-WAY TRAFFIC
UNDIVIDED, URBAN, LOW-VOLUME, LOW-SPEED
DAY OR NIGHT OPERATIONS

WHERE, AT ANY TIME, ANY VEHICLE
EQUIPMENT, WORKERS OR THEIR ACTIVITIES
ENCROACH ON THE PAVEMENT REQUIRING
THE CLOSURE OF ONE TRAFFIC LANE.

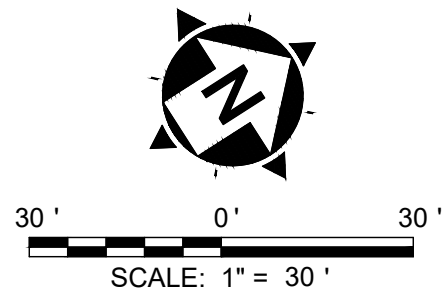
AT NOT TIME SHALL THE ROADWAY BE
CLOSED DURING DAYTIME OPERATION,
AND NOT MORE THAN A 30 MINUTE
DURATION IN NIGHTTIME HOURS.

CONTRACTOR SHALL COORDINATE WITH
INDIVIDUAL BUSINESSES TO MAINTAIN
TRUCK AND SHIFT TRAFFIC.

CONTRACTOR SHALL NOTIFY WVDOT NO
LATER THAN 7 DAYS PRIOR TO WORK
START TO ALLOW ADEQUATE TIME FOR
AN INSPECTOR AND A NEWS RELEASE.



GC&P ROAD
PLAN VIEW STA 24+00 TO 31+00



LEGEND:

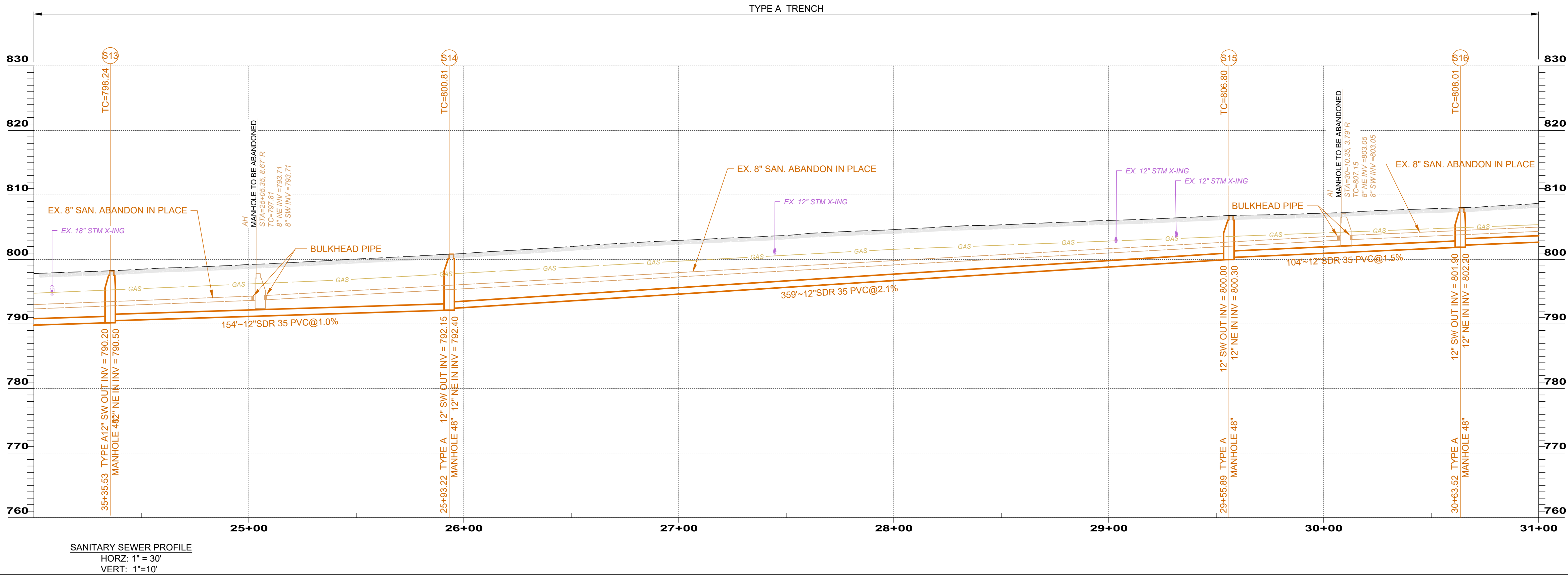
- SILT SACK INLET PROTECTION
- LIMIT OF DISTURBANCE
- PIPE BULKHEAD (PLAN VIEW)
- DIRECTION OF FLOW OVER ROAD

CONTRACTOR TO SWEEP ROAD AS NEEDED TO PREVENT TRACKED SEDIMENT. ANY OPEN TRENCH SHALL BE BACKFILLED AT THE END OF THE DAY

NOTES:

- CONTRACTOR SHALL RECONNECT LATERALS AND REPLACE CLEANOUTS. IF LATERAL HAS NO CLEANOUT, CONTRACTOR SHALL FURNISH AND INSTALL A NEW CLEANOUT ON PROPERTY LINE. COST TO BE INCLUDED IN THE LATERAL REPLACEMENT IN ACCORDANCE WITH STANDARD DETAIL.
- ALL LATERAL LOCATIONS ARE ESTIMATED FROM CCTV FOOTAGE. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS.
- CONTRACTOR TO VERIFY ALL HOUSES ARE CONNECTED W/ DYE TEST. COST IS TO BE INCLUDED IN THE COST OF LATERAL REPLACEMENT.

LATERAL REPLACEMENT	
STA.	
25+47	
26+65	
27+11	
27+46	
28+06	
28+82	
29+44	
30+31	
30+89	

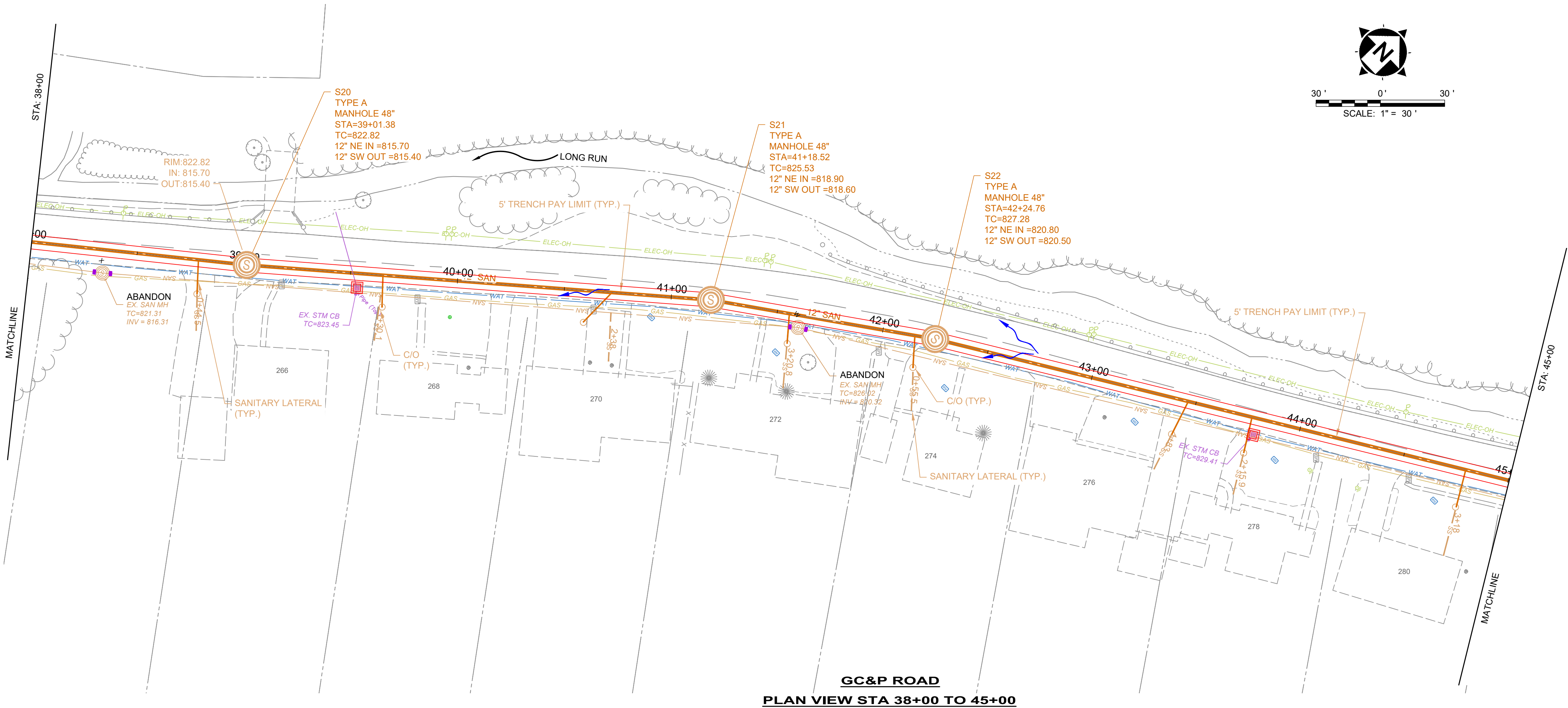


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SCALE:				
DESIGNED BY:	LAS			
DRAWN BY:	RLM			
CHECKED BY:	LAS			

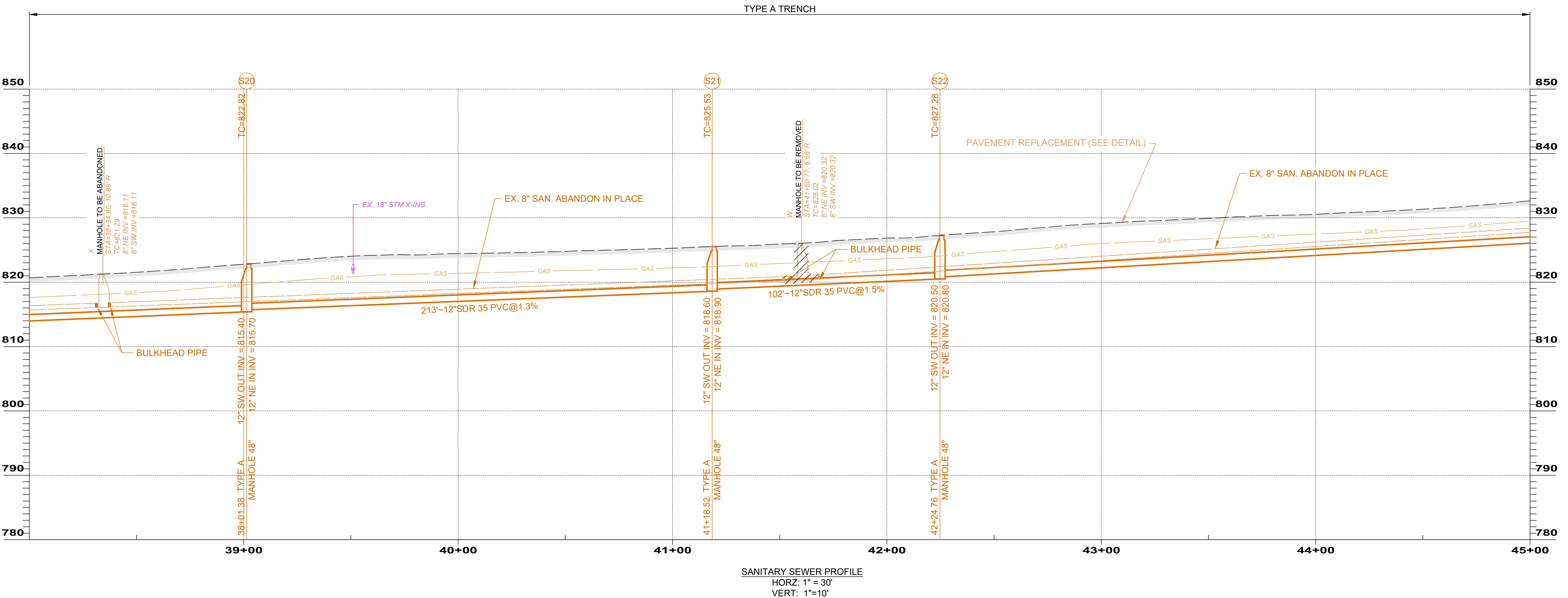
WATER POLLUTION CONTROL DIVISION
WASTEWATER COLLECTION AND TREATMENT
GC&P SEWER REPLACEMENT PHASE 2

PLAN & PROFILE STA. 24+00 TO STA. 31+00

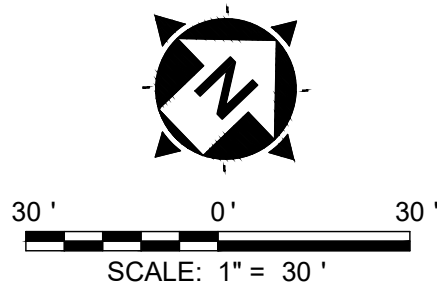
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CIVIL	
SHEET NAME	
PP-02	
SHEET	OF
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GC&P ROAD
PLAN VIEW STA 38+00 TO 45+00



SANITARY SEWER PROFILE
HORZ: 1" = 30'
VERT: 1"=10'



- LEGEND:
- SILT SACK INLET PROTECTION
 - LIMIT OF DISTURBANCE
 - PIPE BULKHEAD (PLAN VIEW)
 - DIRECTION OF FLOW OVER ROAD

CONTRACTOR TO SWEEP ROAD AS NEEDED TO PREVENT TRACKED SEDIMENT. ANY OPEN TRENCH SHALL BE BACKFILLED AT THE END OF THE DAY

NOTES:

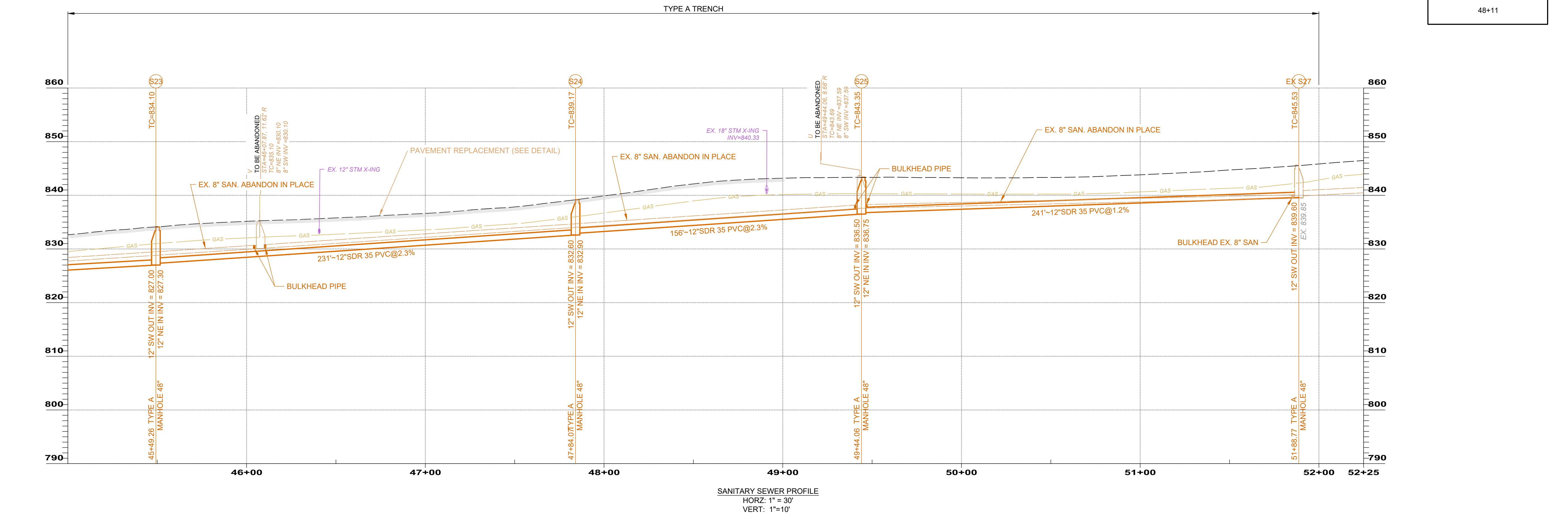
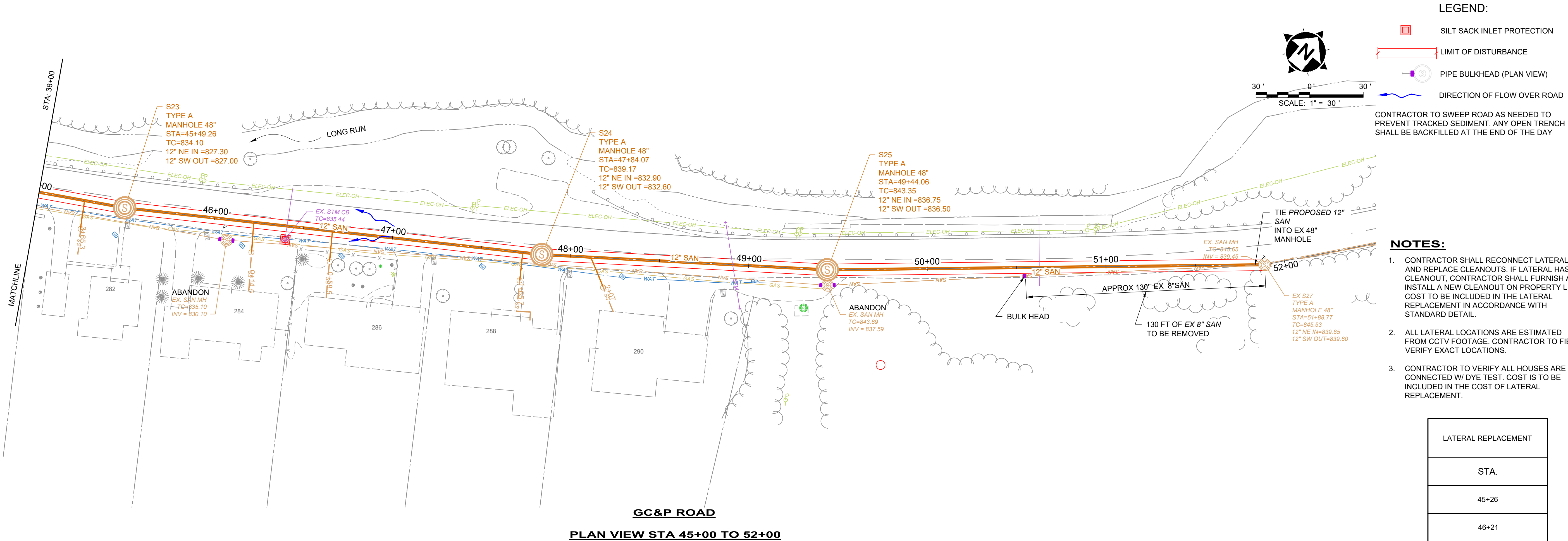
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- ALL LATERAL LOCATIONS ARE ESTIMATED FROM CCTV FOOTAGE. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS.
- CONTRACTOR TO VERIFY ALL HOUSES ARE CONNECTED W/ DYE TEST. COST IS TO BE INCLUDED IN THE COST OF LATERAL REPLACEMENT.

LATERAL REPLACEMENT
STA.
38+78
39+64
40+72
41+55
42+14
43+56
43+76
44+79

WATER POLLUTION CONTROL DIVISION
WASTEWATER COLLECTION AND TREATMENT
GC&P SEWER REPLACEMENT PHASE 2

PLAN & PROFILE STA. 38+00 TO STA. 45+00

PROJECT NO. 45333 PH 02	
DISCIPLINE CIVIL	
SHEET NAME PP-04	
SHEET 8	OF 13



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ISSUE DATE:					
SCALE:					
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CHECKED BY:		LAS			

WATER POLLUTION CONTROL DIVISION
WASTEWATER COLLECTION AND TREATMENT
GC&P SEWER REPLACEMENT PHASE 2

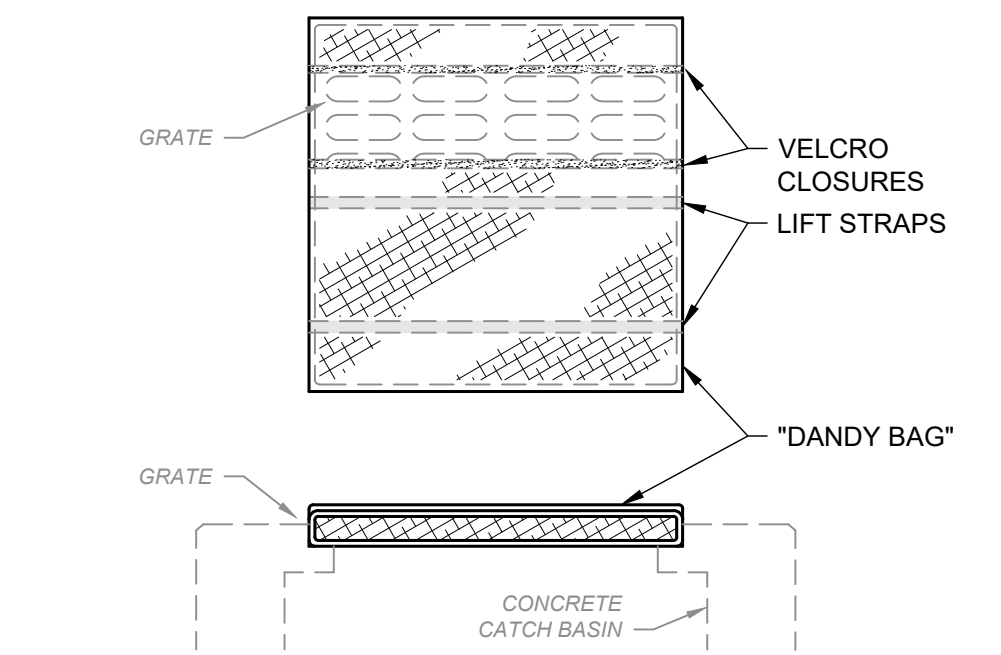
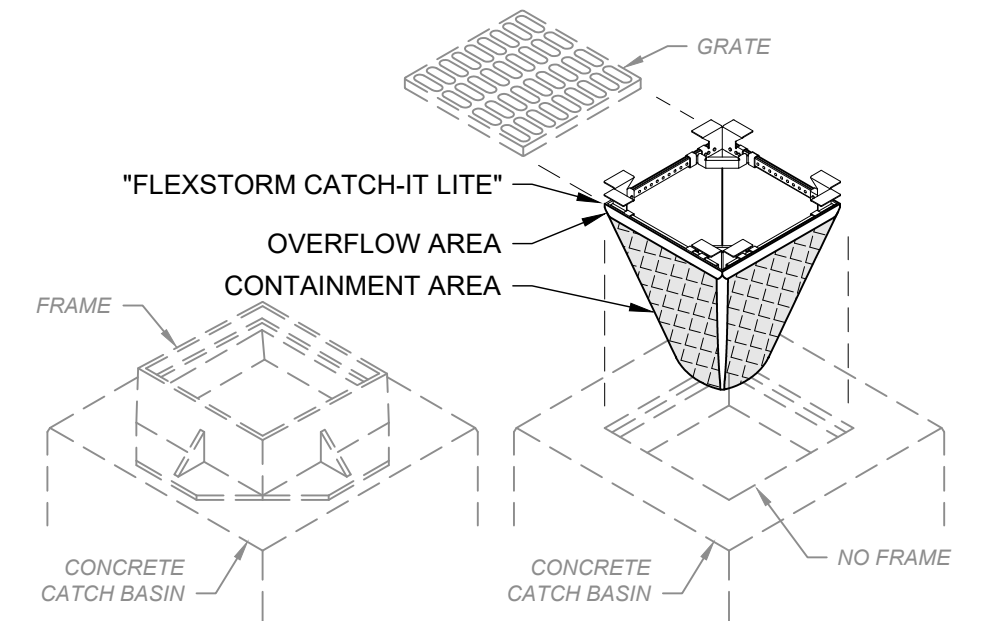
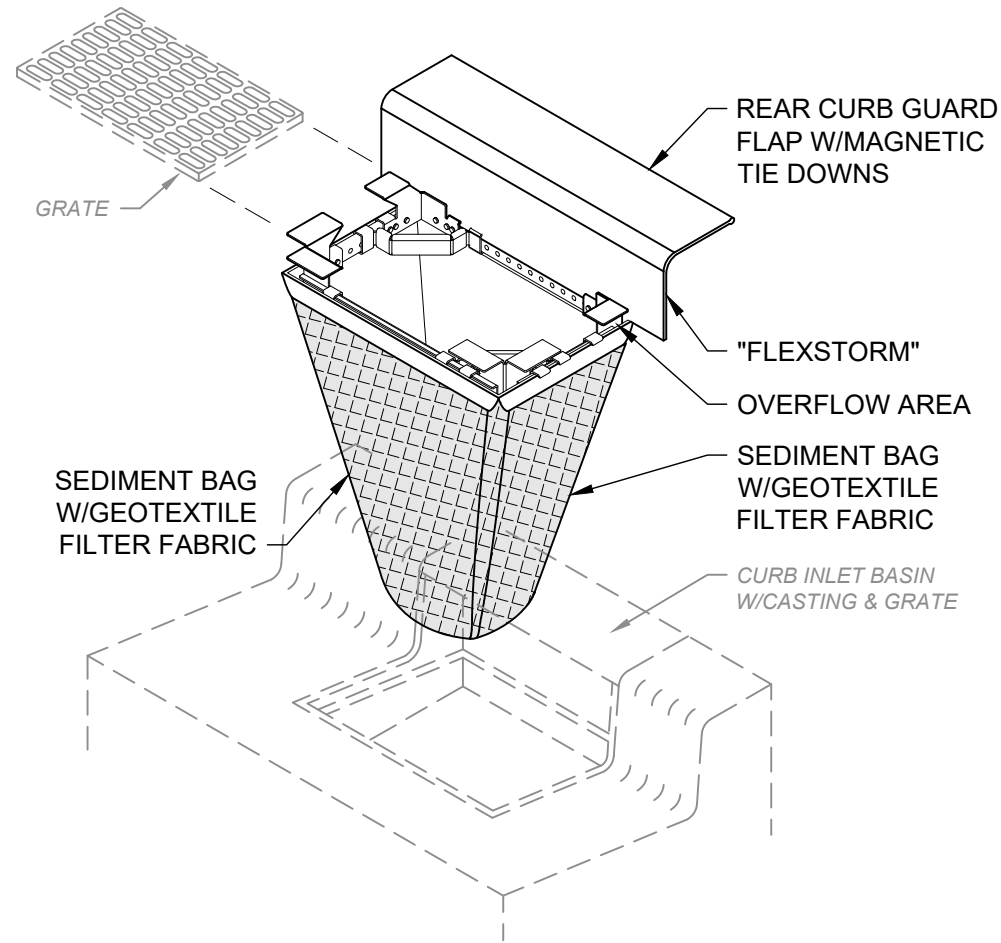
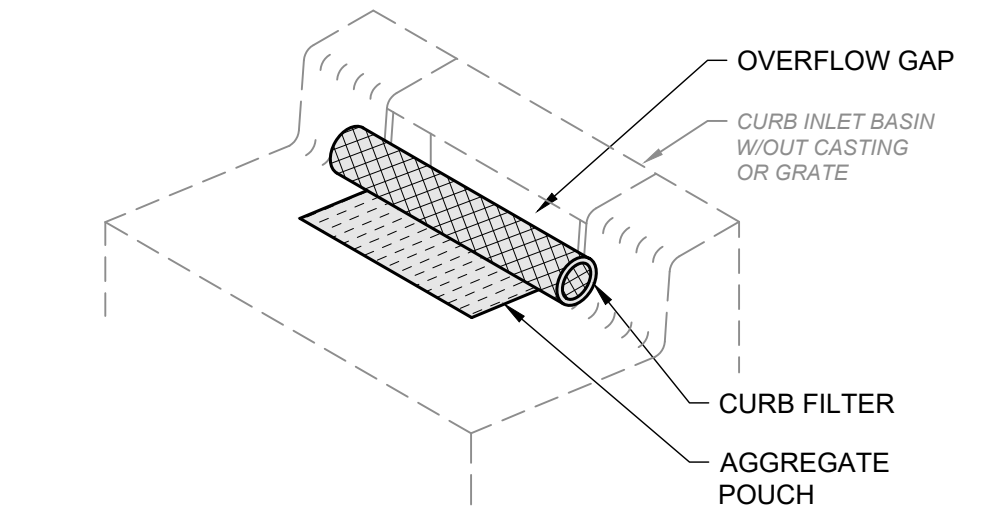
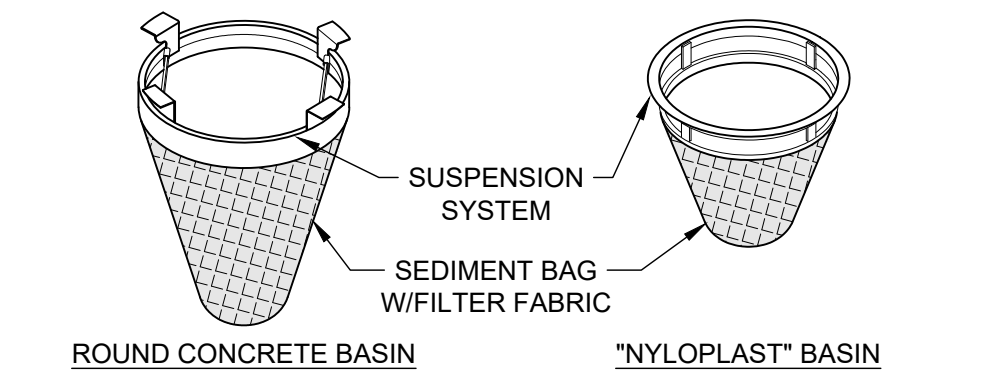
PROJECT NO.
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DISCIPLINE
CIVIL

SHEET NAME
PP-05

SHEET
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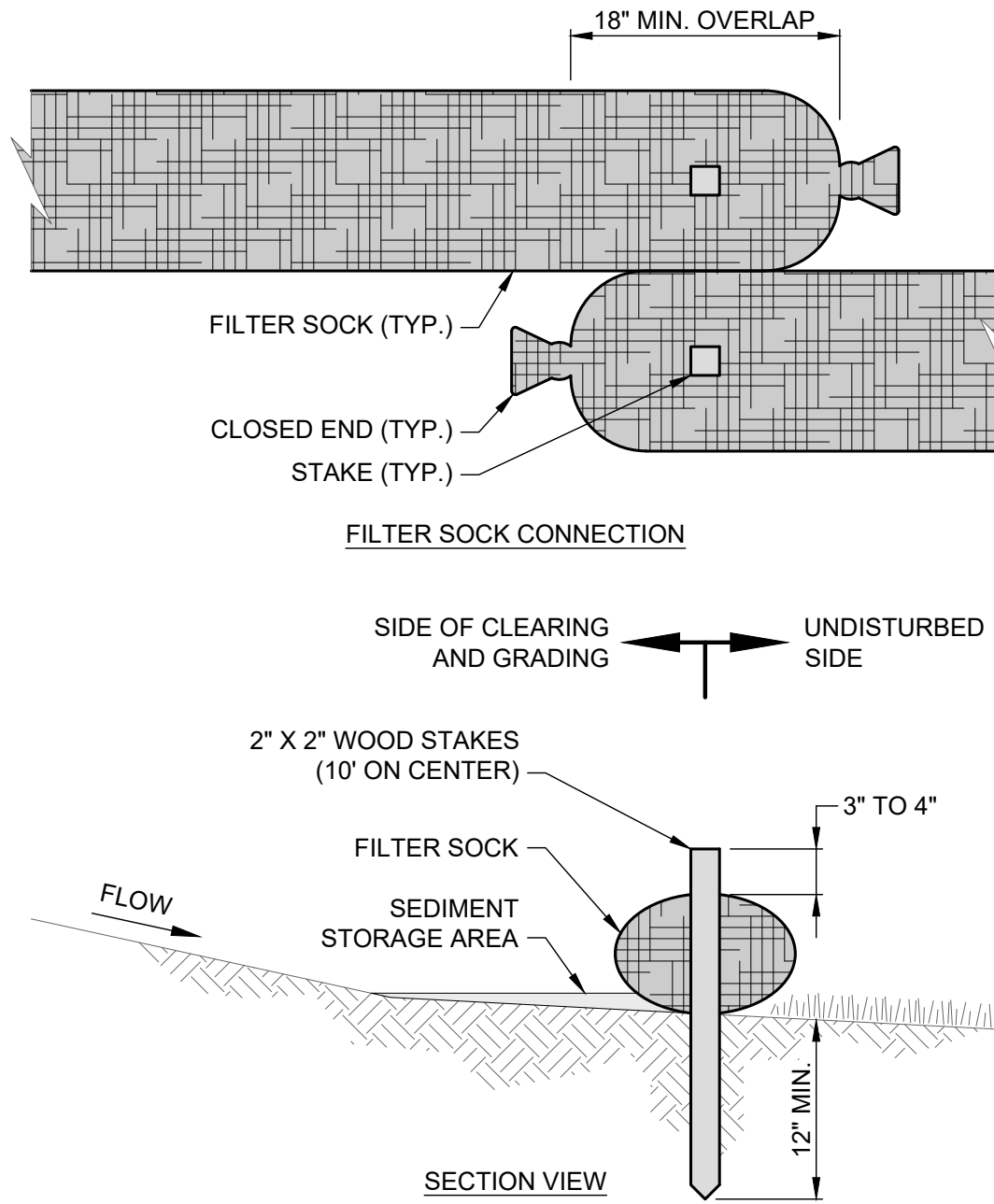
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- NOTES:
- ALL NEW AND EXISTING STORM INLET BASINS WITHIN THE WORK LIMITS SHALL HAVE INLET PROTECTION INSTALLED.
 - INLET PROTECTION SHALL BE INSTALLED AS EACH STORM INLET IS CONSTRUCTED.
 - NOT ALL ITEMS SHOWN MAY APPLY OR DIFFERENT TYPES OR CONFIGURATIONS MAY BE REQUIRED. THE CONTRACTOR SHALL MEASURE EACH INLET TO CONFIGURE AND ASSEMBLE CUSTOMIZED INLET FILTERS.

INLET PROTECTION DETAIL

SCALE: NONE



NOTES:

- FILTER SOCKS SHALL BE CONTINUOUS, TUBULAR, HDPE KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST.
- COMPOST SHALL BE WEED, PATHOGEN AND INSECT FREE, FREE OF REFUSE, CONTAMINANTS OR MATERIALS TOXIC TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".
- DUE TO ENHANCED BMP'S FOR WHEELING CREEK, 18" FILTER SOCK IS REQUIRED
- FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND MID-SLOPE.
- THE FLAT DIMENSION OF THE SOCK SHALL BE AT LEAST 1.5 TIMES THE NOMINAL DIAMETER.
- FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
- BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE FILTER SOCK HEIGHT.
- BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- WHEN A FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE DISPERSED ON-SITE.
- THE MAXIMUM DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE FOLLOWING EITHER THE MANUFACTURER RECOMMENDATION OR THE GUIDANCE CHART BELOW:

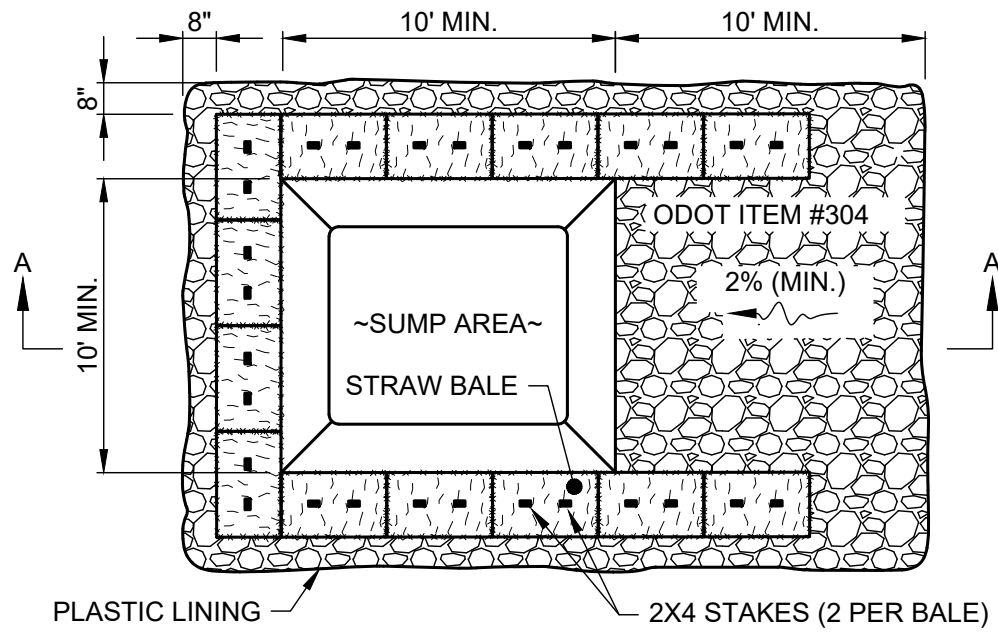
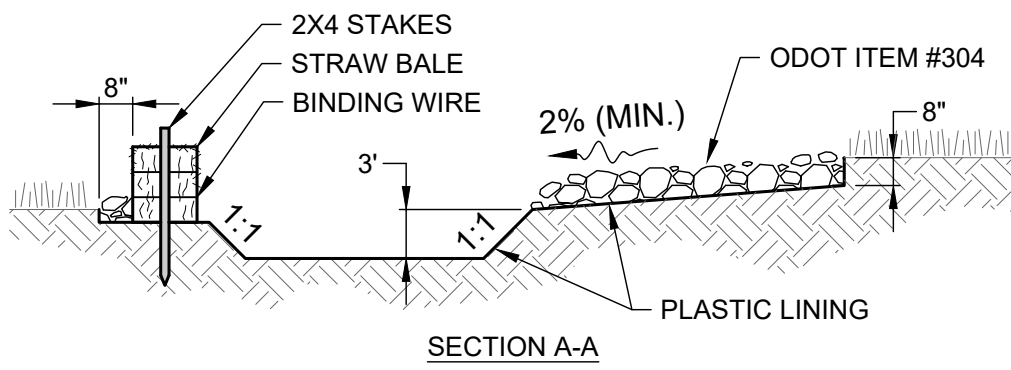
MAX. SLOPE LENGTH ABOVE FILTER SOCK					
SLOPE	RATIO (H:V)	8"	12"	18"	24"
0% - 2%	0 - 50:1	125'	250'	300'	350'
2% - 10%	50:1 - 10:1	100'	125'	200'	250'
10% - 20%	10:1 - 5:1	75'	100'	150'	200'
20% - 50%	5:1 - 2:1	N/A	50'	75'	100'
≥ 50%	≥ 2:1	N/A	25'	50'	75'

FILTER SOCK DETAIL

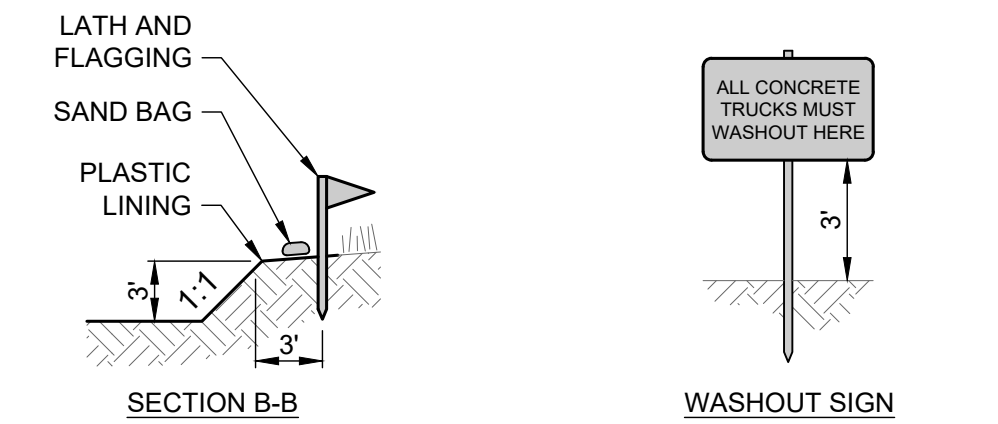
SCALE: NONE

- TEMPORARY SEEDING SHALL BE PLACED WHEN AREA OF DISTURBANCE IS EXPECTED TO BE DORMANT FOR MORE THAN 21 DAYS, PER THE WV E&S MANUAL
- THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.
- SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH VEGETATION. PERFORM SOIL TESTS TO PREDICT THE NEED FOR LIME OR FERTILIZER. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS
- APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING, AND LIGHTLY TAMPING INTO PLACE.
- MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING.
- INSPECT FOR SOIL EROSION OR VEGETATION LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED AND RE-MULCH AS NEEDED.

TEMPORARY SEEDING NOTES



SINGLE LOCATION FOR SMALL PROJECT



NOTES:

- CONCRETE WASHOUT SHALL NOT BE PLACED WITHIN 50 FEET OF A WATER WAY OR WITHIN AN AREA THAT IMPEDES LOCAL TRAFFIC
- CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS.
- IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE.
- CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONCRETE WASHOUT AREAS.
- PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
- CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
- CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOW.
- PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE.
- CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.

CONCRETE WASHOUT DETAIL

SCALE: NONE

TEMPORARY SEEDING SPECIES SELECTION			
DATES	SPECIES	LB/1,000 SF	LB/AC.
MARCH 1 - AUGUST 15	OATS	3	128
	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
	PERENNIAL RYEGRASS TALL FESCUE	2	40
AUGUST 16 - OCTOBER 31	RYE	3	112
	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
	WHEAT	3	120
NOVEMBER 1 - FEBRUARY 28	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
	PERENNIAL RYEGRASS TALL FESCUE	2	40
	TALL FESCUE	1	40
ONLY MULCH OR DORMANT SEEDING.			

- SUBSOILING SHALL OCCUR WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT PERMITTED ON SLIP-PRONE AREAS.
- THE SEED BED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIMESTONE OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 3".
- APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED BETWEEN MARCH 1 AND MAY 31 OR AUGUST 1 AND SEPTEMBER 30. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. SEEDING SHOULD NOT BE APPLIED BETWEEN OCTOBER 1 AND NOVEMBER 20 BECAUSE SEEDS MAY GERMINATE, BUT WILL NOT SURVIVE THE WINTER. IF SEEDING MUST OCCUR, INCREASE THE SEEDING RATE BY 50% AND ANCHOR. APPLY ADDITIONAL MULCH AND IRRIGATION AS REQUIRED TO ENSURE GERMINATION.
- MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING.
- SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS.
- SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF SEEDING. DURING THIS PERIOD INSPECT FOR SOIL EROSION OR VEGETATION LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED AND RE-MULCH AS NEEDED.
- ADEQUATE PERMANENT VEGETATION SHALL BE GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE BASED ON VISUAL INSPECTION.

PERMANENT SEEDING NOTES

SIGN MUST BE POSTED AT PROJECT LOCATION WITHIN 72 HOURS OF APPLICATION MINIMUM DIMENSIONS OF TWO (2') BY TWO (2') WITH HEIGHT OFF THE GROUND OF THREE (3') REFER TO WV0115924 (GENERAL PERMIT) SECTION II.B. APPLICABLE REGULATION



PUBLIC NOTICE SIGN

NOT TO SCALE

SIGN DETAIL PROVIDED ONLY AS A TYPICAL EXAMPLE, REFER TO II.B. OF GENERAL PERMIT FOR SPECIFICS.

PERMANENT SEEDING FERTILIZATION AND MOWING CHART				
MIXTURE	FORMULA	LB/ AC.	TIME	MOW
CREeping RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	10-10-10	500	FALL, YEARLY, OR AS NEEDED	≥3"
TALL FESCUE	10-10-10	500		≥4"
TURF-TYPE FESCUE	10-10-10	500		
CROWN VETCH FESCUE	0-20-20	400	SPRING, AND YEARLY AFTER ESTABLISHED	DO NOT MOW
FLAT PEA FESCUE	0-20-20	400		

PERMANENT SEEDING SPECIES SELECTION		
SEED MIX	SEED RATE LB/AC.	NOTES:
GENERAL USE		
CREeping RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20 - 40 10 - 20 20 - 40	FOR CLOSE MOWING AND WATERWAYS WITH <2.0 FT./SEC. VELOCITY
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
STEEP BANKS OR CUT SLOPES		
TALL FESCUE	40 - 50	
CROWN VETCH TALL FESCUE	10 - 20 20 - 30	DO NOT SEED LATER THAN AUGUST
FLAT PEA TALL FESCUE	20 - 25 20 - 30	DO NOT SEED LATER THAN AUGUST
ROAD DITCHES AND SWALES		
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE KENTUCKY BLUEGRASS	90 5	
LAWN		
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100 - 120 100 - 120	
KENTUCKY BLUEGRASS CREeping RED FESCUE	100 - 120 100 - 120	FOR SHADED AREAS

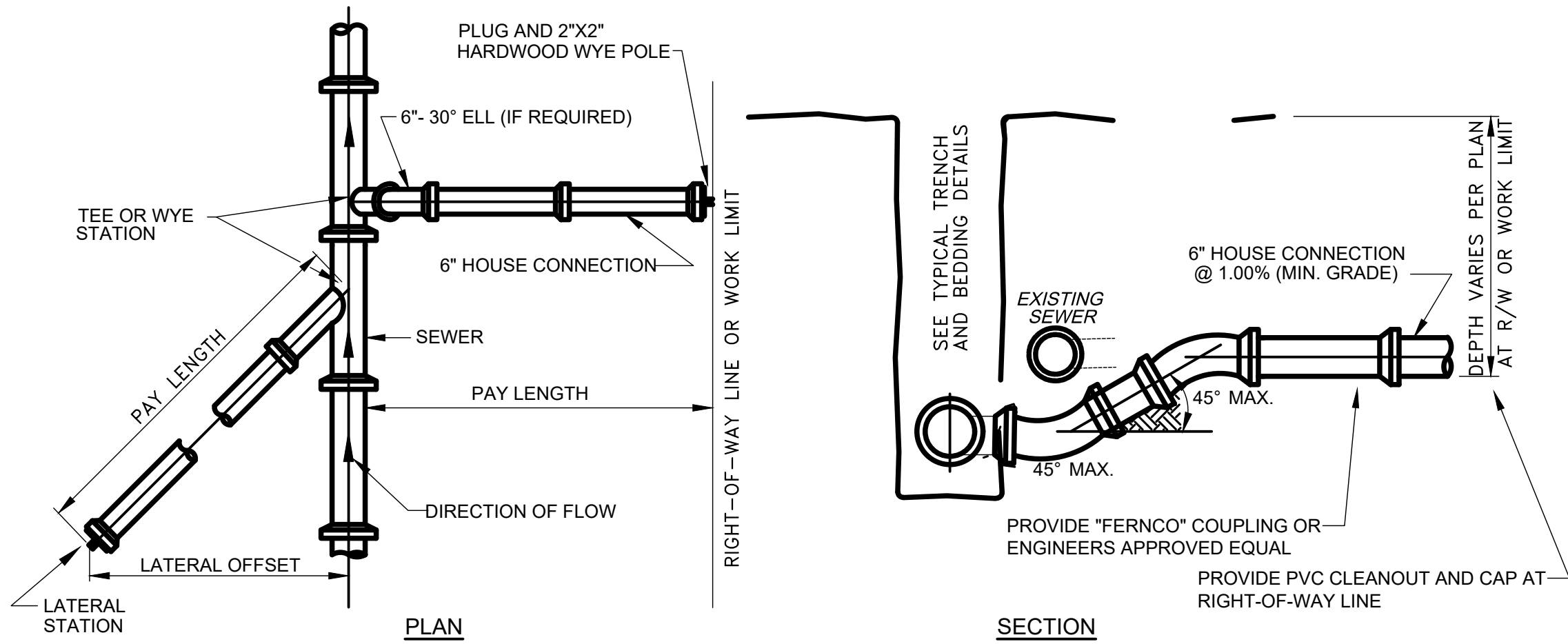
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WATER POLLUTION CONTROL DIVISION
WASTEWATER COLLECTION AND TREATMENT
GC&P SEWER REPLACEMENT PHASE 2

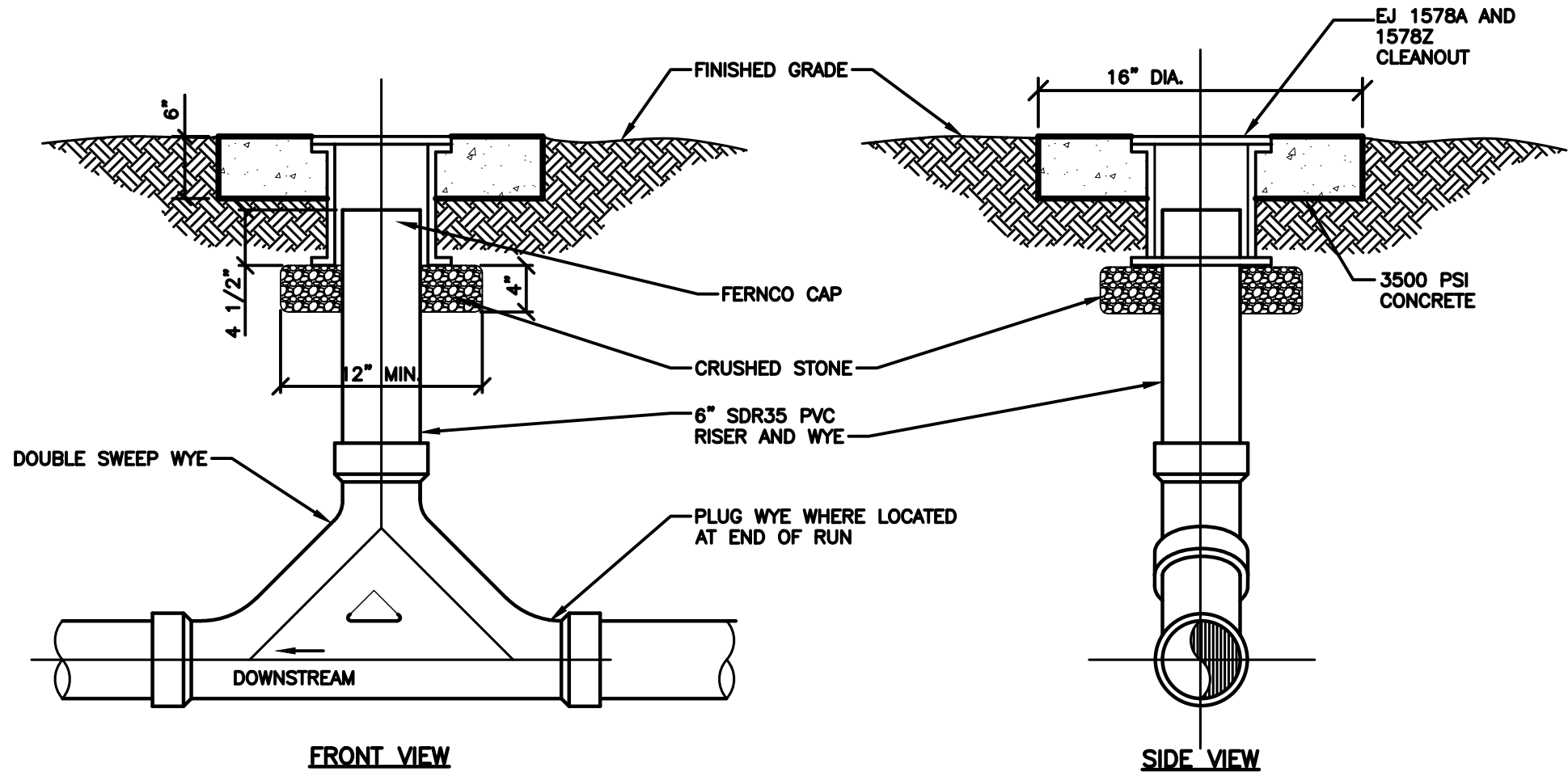
EROSION CONTROL DETAILS

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CIVIL	
SHEET NAME	
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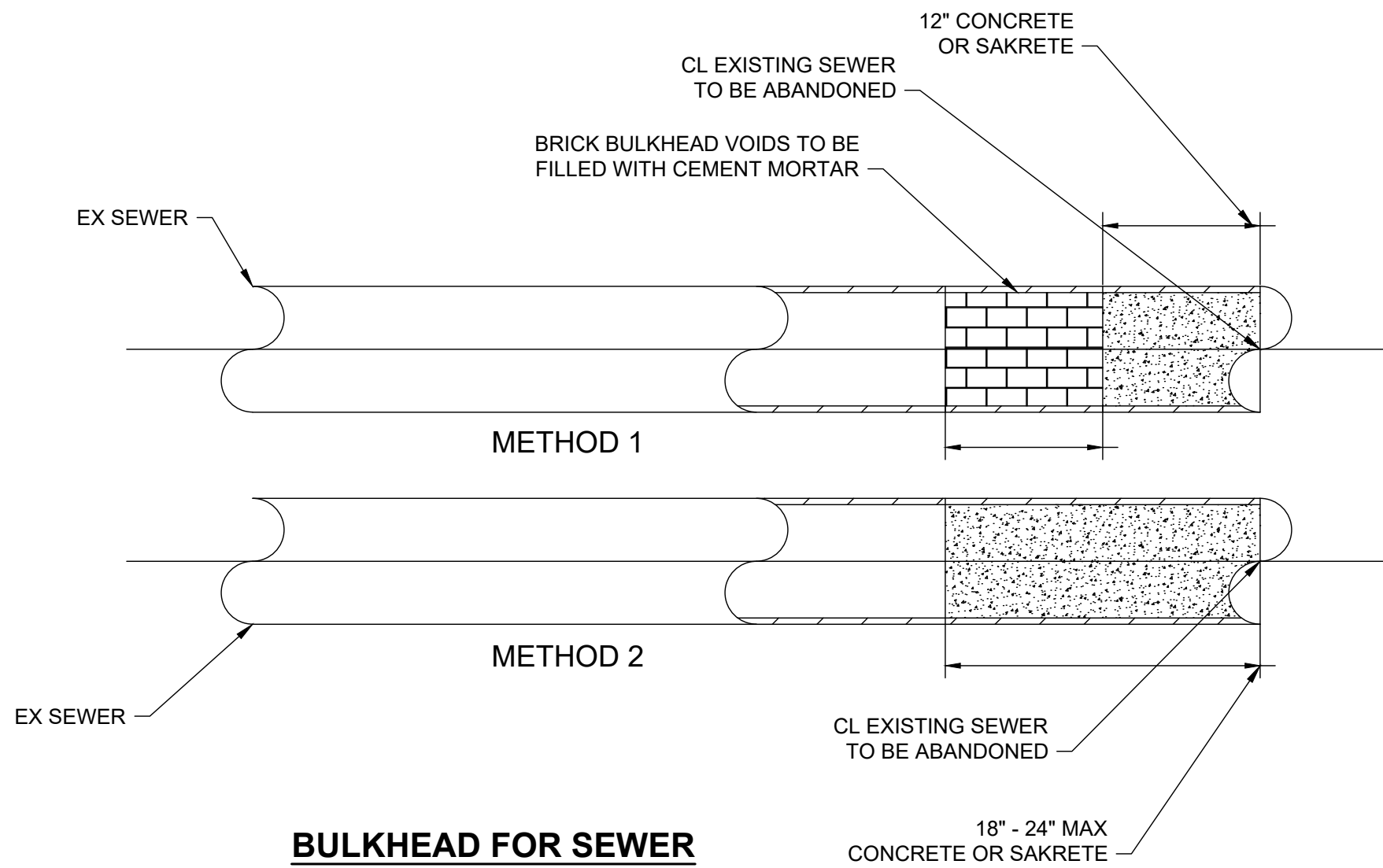


SEWER LATERAL DETAIL

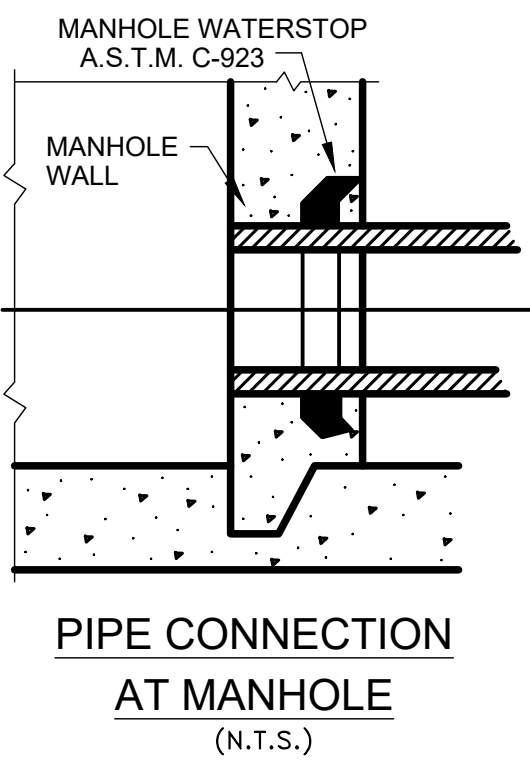
- NOTES:
- WHERE EXISTING LATERALS CONNECT INTO MANHOLES, THEY SHALL BE RECONNECTED TO ALL NEWLY CONSTRUCTED MANHOLES, AS DIRECTED.
 - IF A LATERAL IS ENCOUNTERED THAT IS CONNECTED TO THE EXISTING SEWER LINE, IT SHALL BE RECONNECTED IN ACCORDANCE WITH THIS DETAIL, AS DIRECTED
 - LATERALS SHALL BE CONSTRUCTED TO THE RIGHT-OF-WAY LINE AND A STANDARD PVC CAPPED CLEANOUT SHALL BE PLACED AT THIS LOCATION FOR EACH LATERAL.
 - NEW CLEANOUTS SHALL NOT BE PLACED IN DRIVEWAYS.
 - ONE ADDITIONAL 22.5 OR 45 DEGREE FITTING HAS BEEN ADDED AS A PAY ITEM.



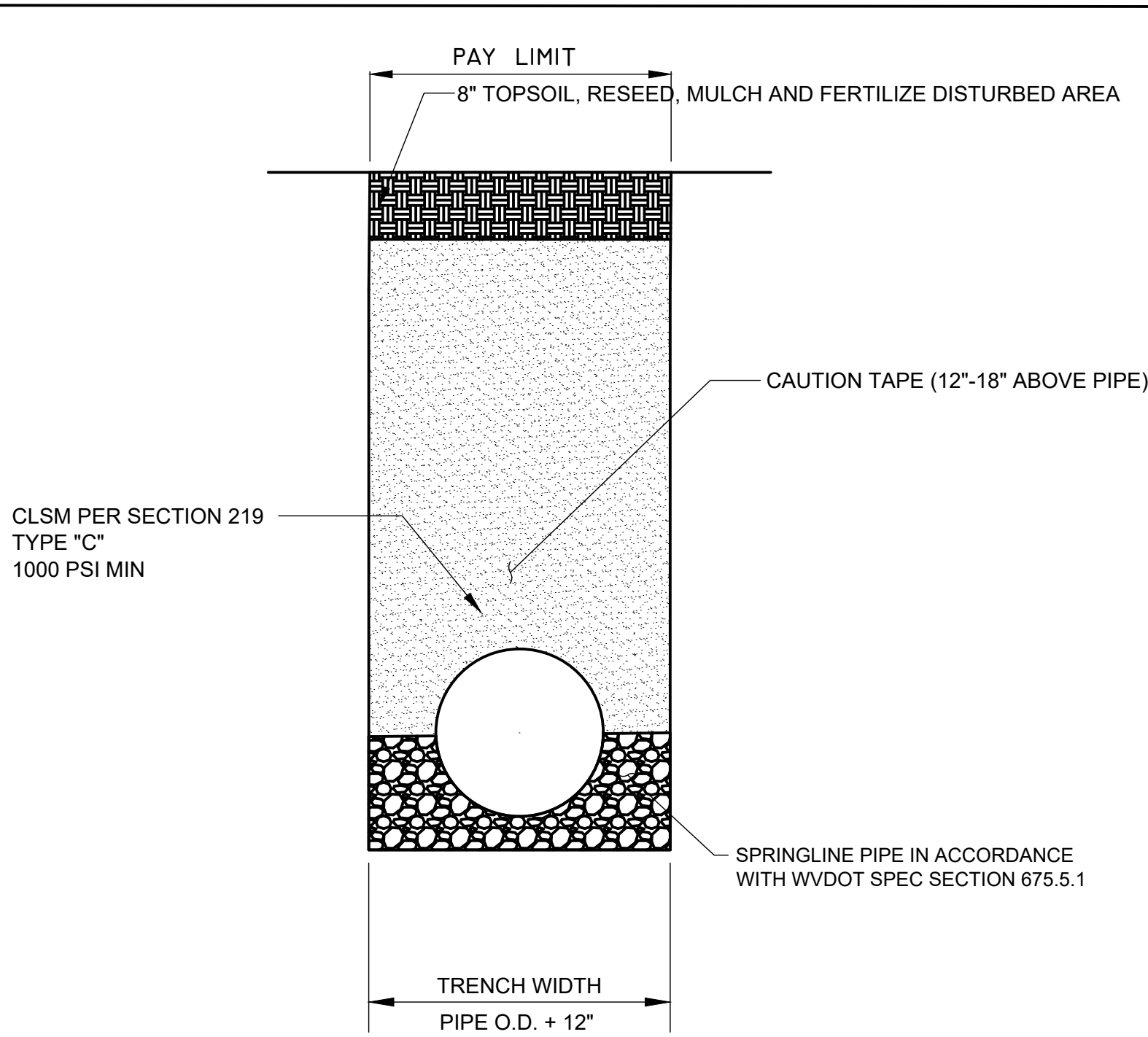
SEWER CLEANOUT DETAIL



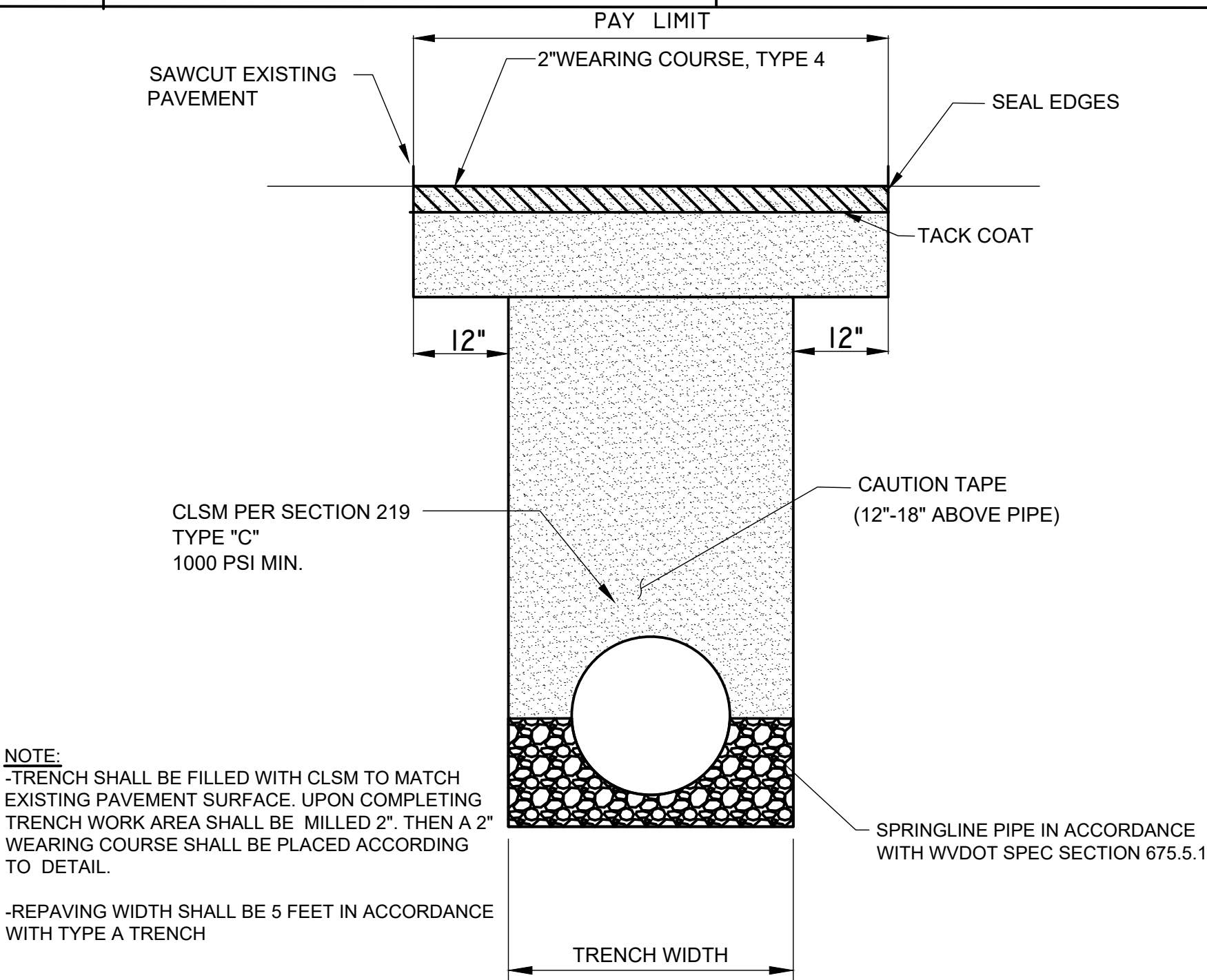
BULKHEAD FOR SEWER



PIPE CONNECTION
AT MANHOLE
(N.T.S.)

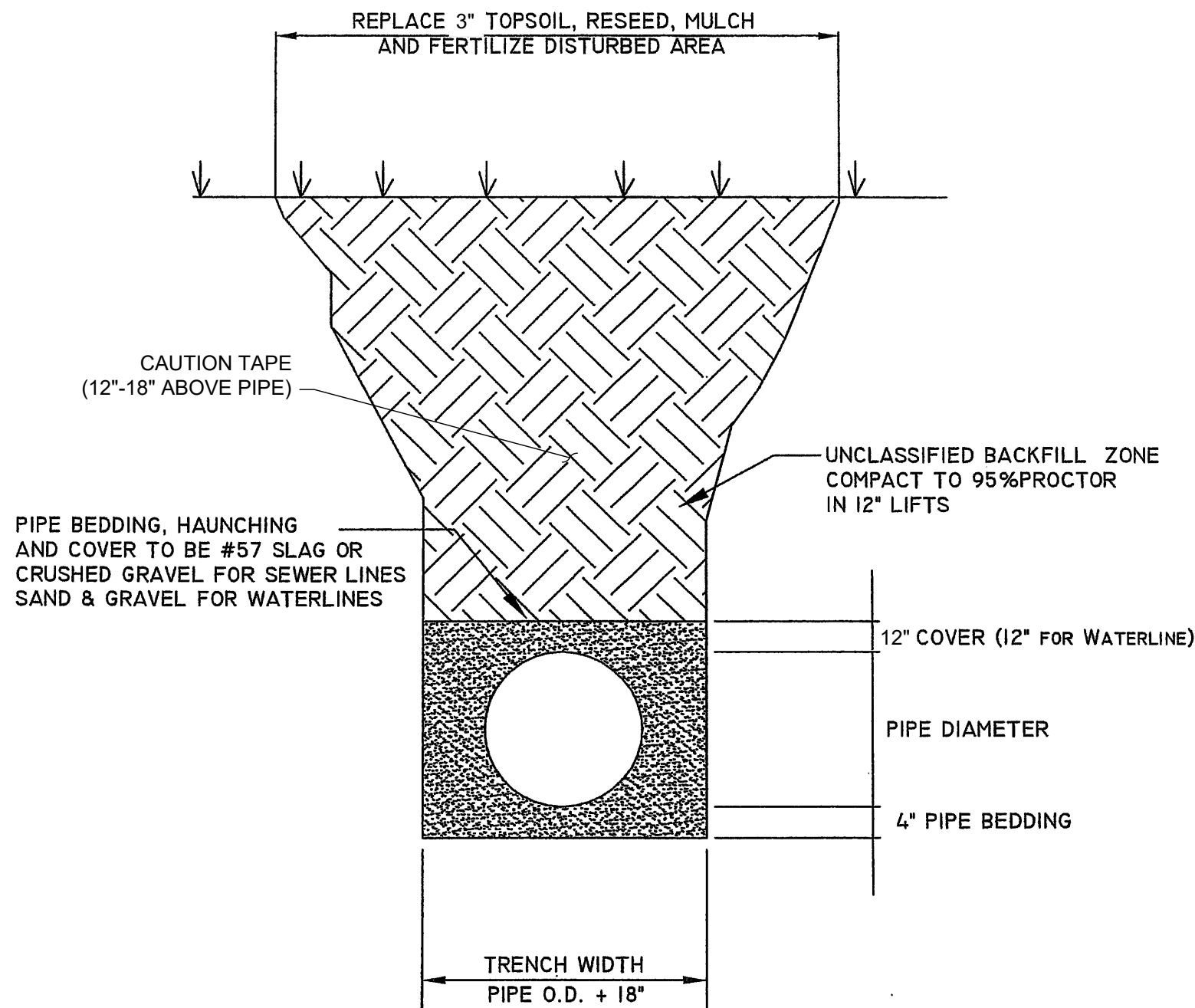


TYPE A TRENCH/DITCH REPLACEMENT



- NOTE:
- TRENCH SHALL BE FILLED WITH CLSM TO MATCH EXISTING PAVEMENT SURFACE. UPON COMPLETING TRENCH WORK AREA SHALL BE MILLED 2". THEN A 2" WEARING COURSE SHALL BE PLACED ACCORDING TO DETAIL.
 - REPAVING WIDTH SHALL BE 5 FEET IN ACCORDANCE WITH TYPE A TRENCH

TYPE A TRENCH/PAVEMENT REPLACEMENT



TYPE D TRENCH (WHEELING)

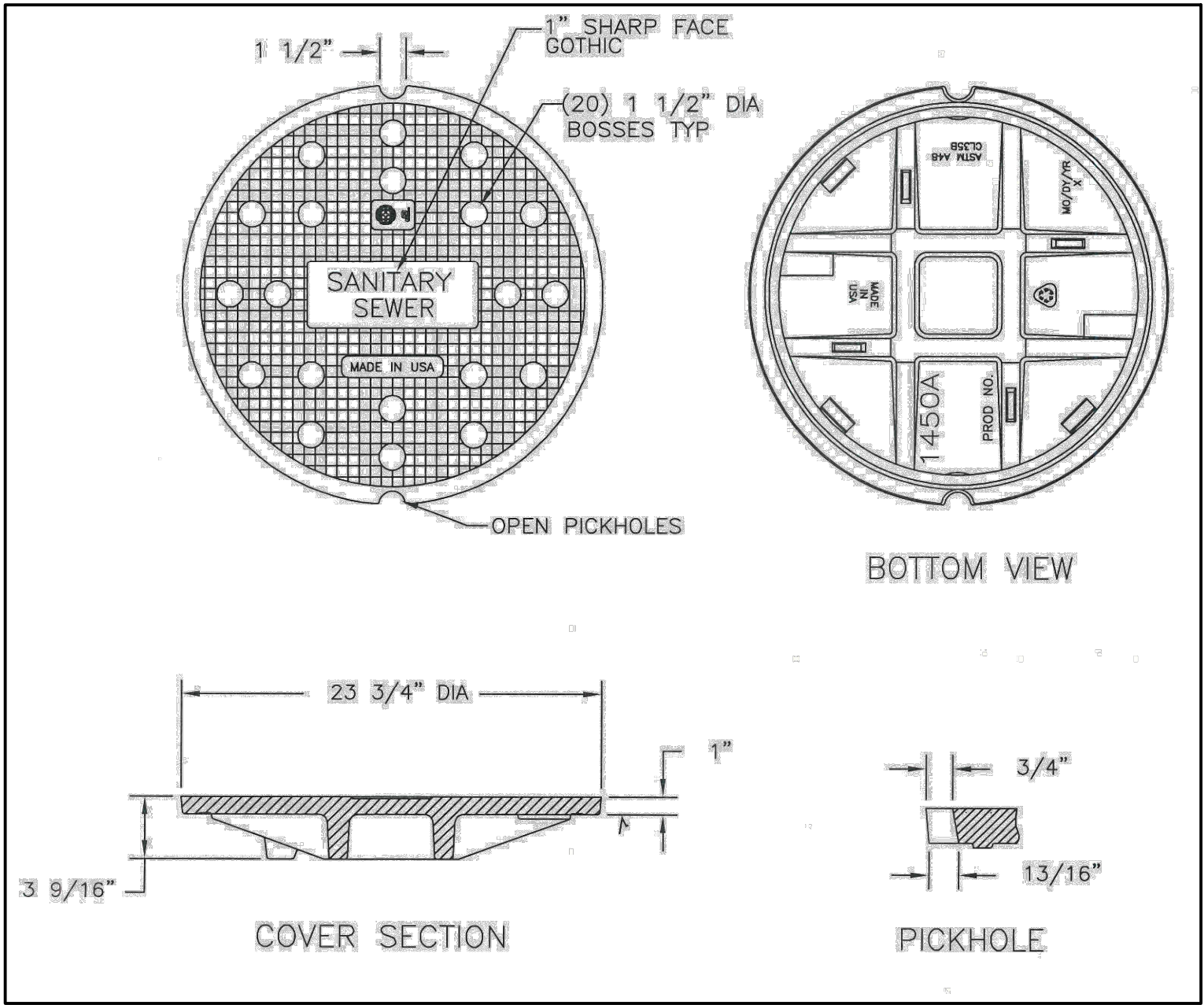
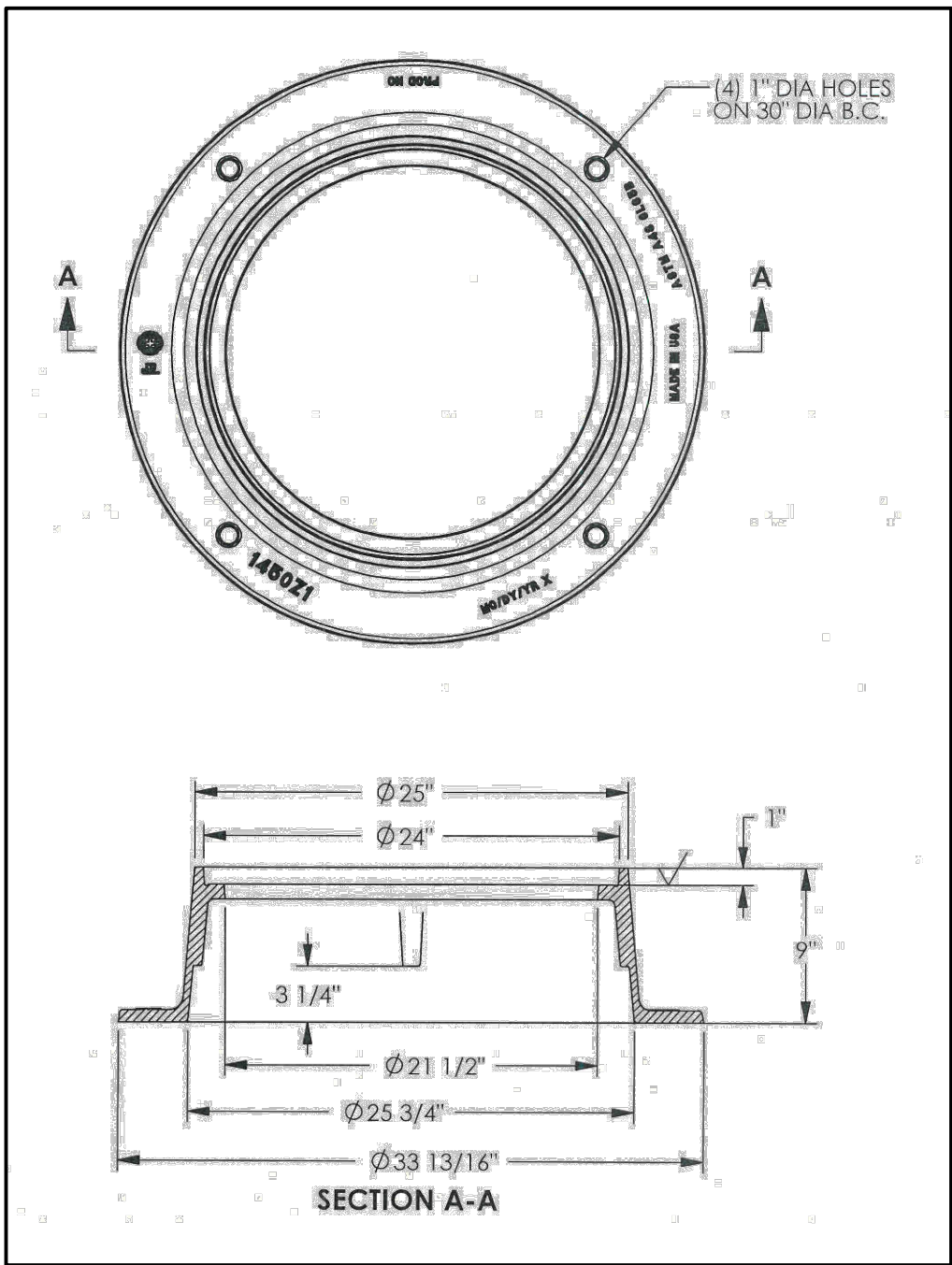
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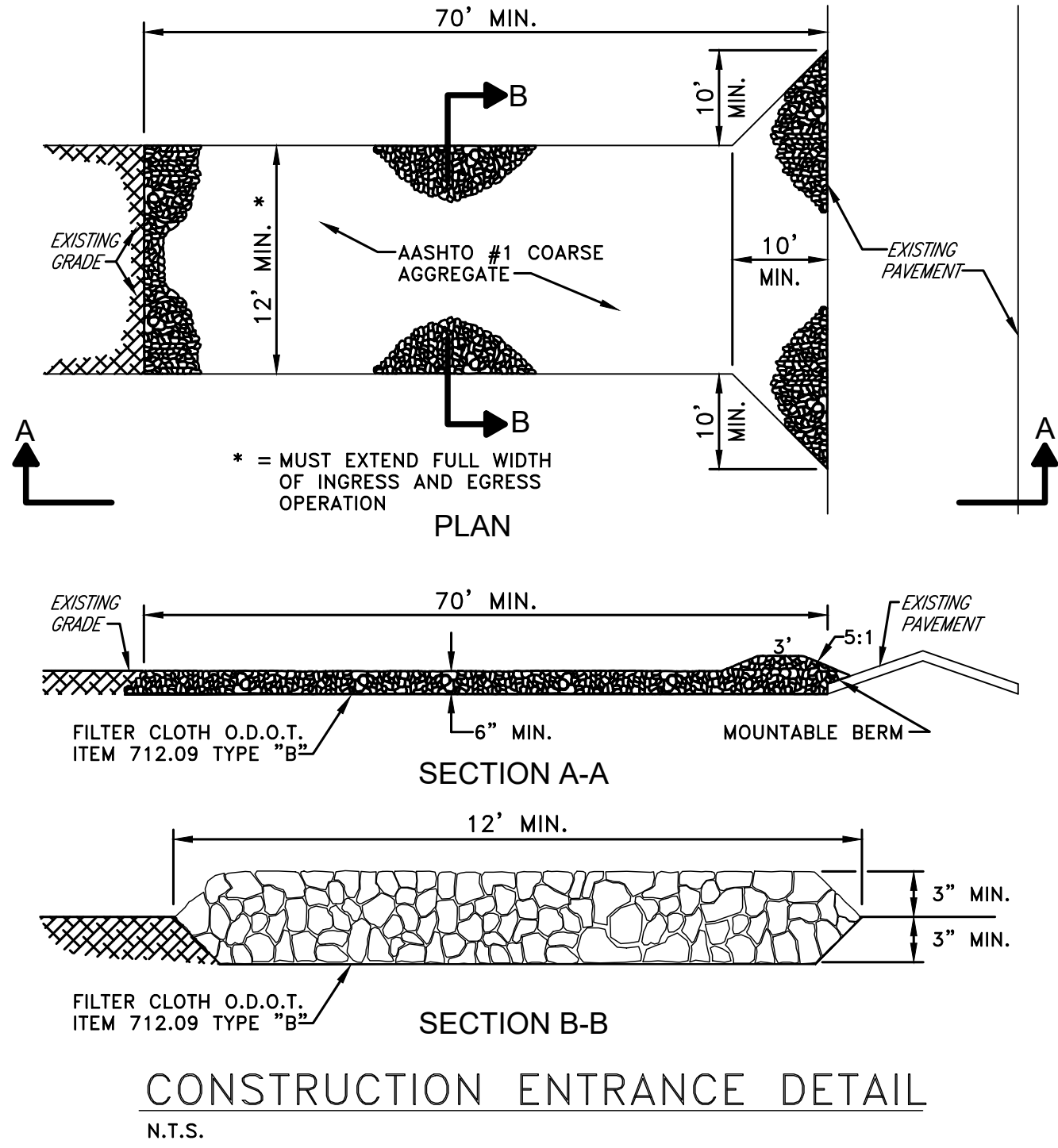
WATER POLLUTION CONTROL DIVISION
WASTEWATER COLLECTION AND TREATMENT
GC&P SEWER REPLACEMENT PHASE 2

STANDARD DETAILS

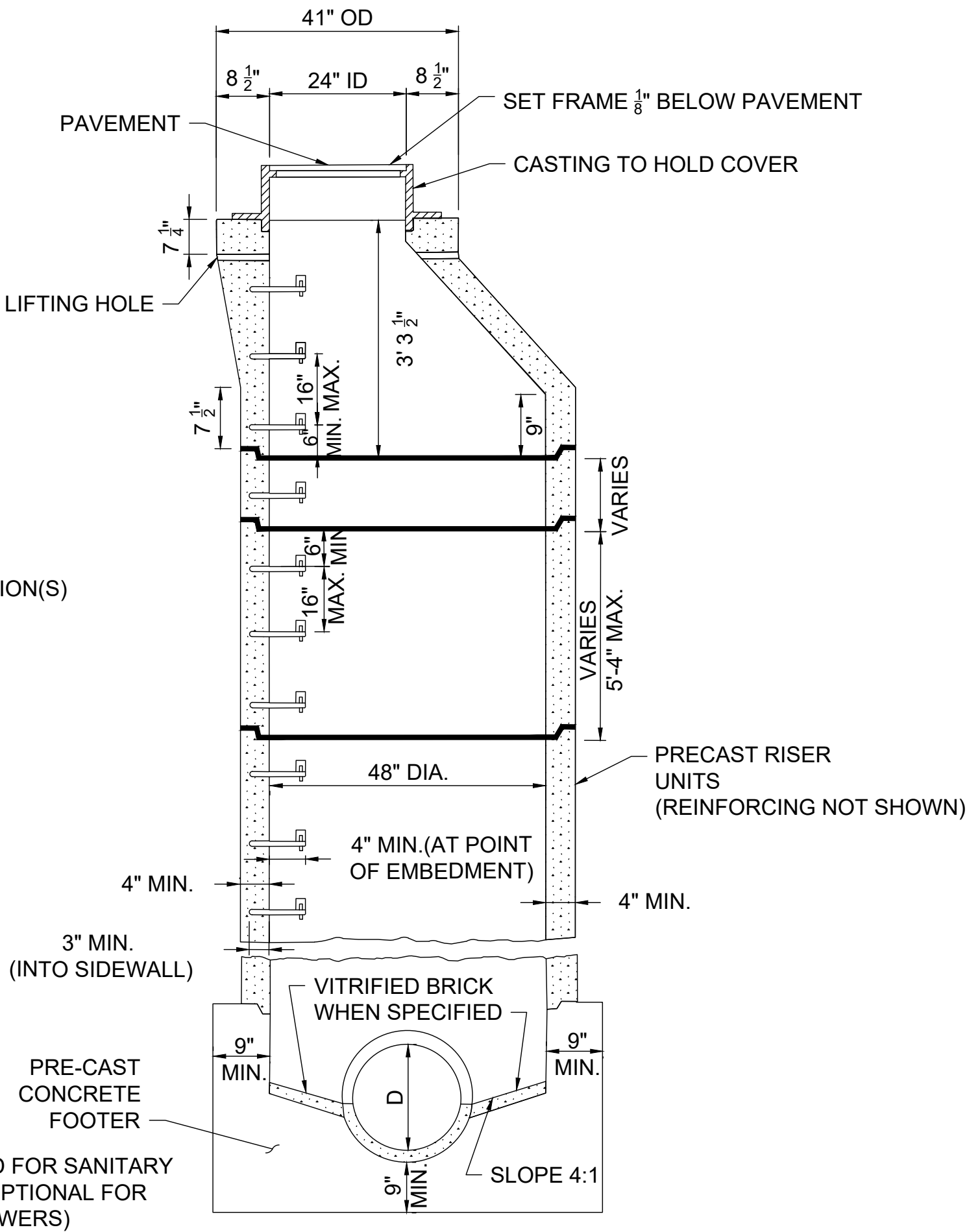
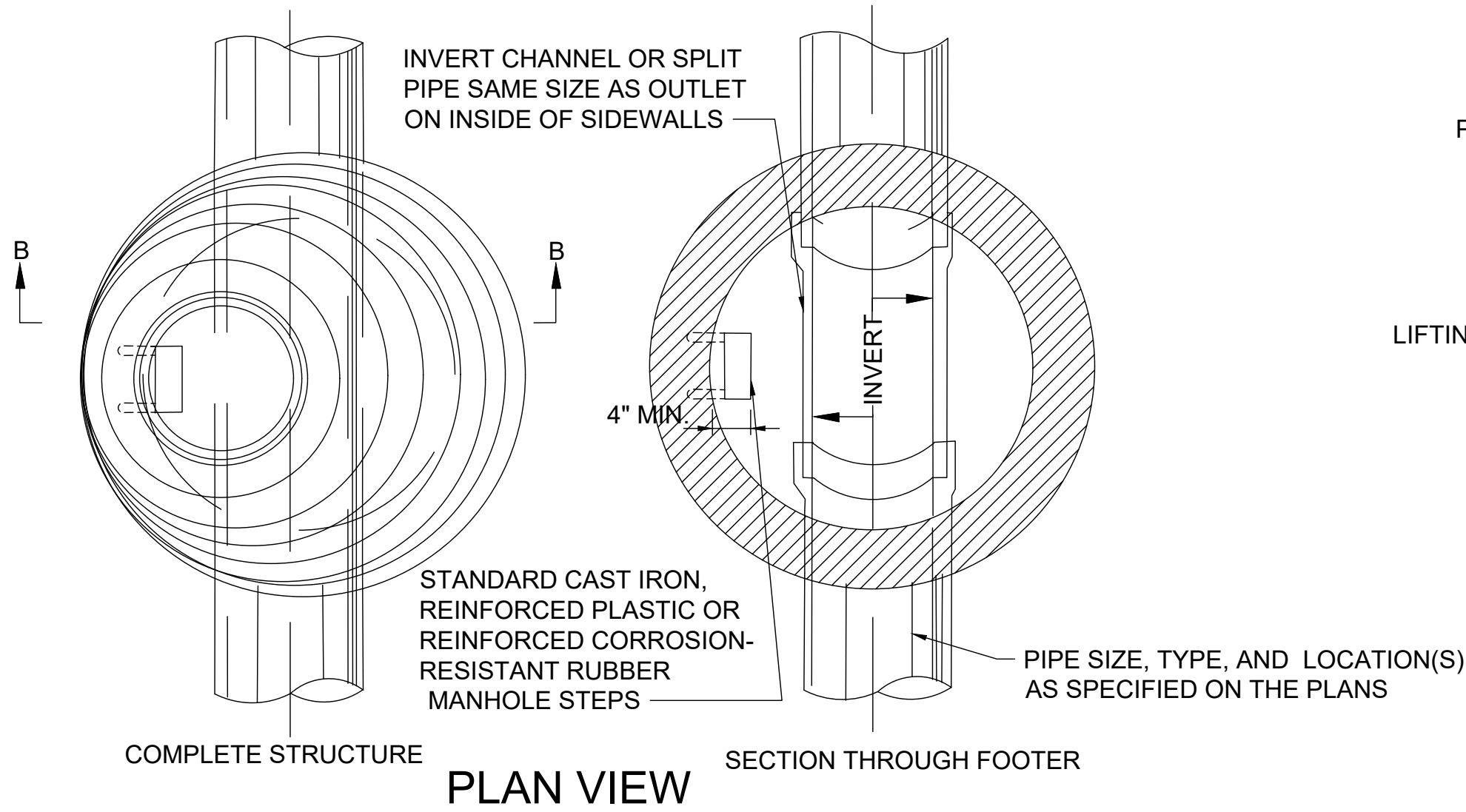
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CIVIL	
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SD-1	
SHEET	OF
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DETAIL "A"



CONSTRUCTION ENTRANCE DETAIL
N.T.S.



SECTION B-B
PRE-CAST

WHEELING NOTES:

- ALL MANHOLE STEPS MUST BE REMOVED PRIOR TO ACCEPTANCE BY WPCD. THE STRUCTURES MAY EITHER BE CONSTRUCTED WITHOUT STEPS, OR THEY MUST BE CUT AND FINISHED FLUSH TO THE INSIDE MANHOLE FACE FOLLOWING INSTALLATION OF THE MANHOLES.
- ALL MANHOLES SHALL CONFORM TO WV DOH PAY ITEM 675015. MANHOLE FRAMES AND LIDS SHALL BE EAST JORDAN (NO ALTERNATIVES).

FRAME: EJIW 1450Z

MH CASTING: EJIW 1450A - MARKED "SANITARY"

WVDOT TYPE A MANHOLE

NOTES:

TYPE A MANHOLES, WHEN SPECIFIED ON THE PLANS, MAY BE CONSTRUCTED IN EITHER METHOD (CAST-IN-PLACE OR PRE-CAST OPTION) AS SHOWN HEREIN.

STEPS, FRAMES, AND COVERS SHALL BE AS SHOWN ON WVDOT STANDARD SHEET DR7-X. "KEYED" OR "DOWELED" TYPE CONSTRUCTION JOINTS, ACCEPTABLE TO THE ENGINEER, MAY BE USED IN THE CONSTRUCTION OF THE CONCRETE MANHOLES.

IF THE CAST-IN-PLACE MANHOLE IS OVER TWELVE FEET (12') IN DEPTH, THE SIDEWALLS BELOW THAT DEPTH WILL BE DOUBLE IN THICKNESS.

PIPE AT ELEVATION OTHER THAN SHAWN MAY BE JOINED TO THE MANHOLE BY CUTTING A HOLE THE SIZE OF THE CONNECTING PIPE IN THE MANHOLE, INSERTING THE PIPE THE THICKNESS OF THE MANHOLE SHELL AND CLOSING ALL OPENINGS AROUND THE CONNECTING PIPE WITH JOINT MORTAR.

DRAWING SHOWS PIPE ENTERING AND LEAVING MANHOLE IN A STRAIGHT LINE. HOWEVER, THE PIPES MAY ENTER OR LEAVE AT AN ANGLE OR PLACE AS CALLED FOR OR SHOWN ON THE PLANS.

MINIMUM HEIGHT OF BENCH WALL ABOVE FLOWLINE OF THE PIPE IS 25% OF THE DIAMETER OF THE PIPES.

THE USE OF BRICK FOR MANHOLE CONSTRUCTION WILL NOT BE ALLOWED WHEN A MANHOLE IS LOCATED IN THE ROADWAY.

THE FOLLOWING ADDITIONAL NOTES ARE APPLICABLE FOR PRE-CAST MANHOLES:

MANHOLE STEPS SHALL BE PLACED INTO PLASTIC CONCRETE WALL DURING MANUFACTURE OR MORTARED INTO HOLES AFTER THE CONCRETE HAS SET.

SIDEWALL SECTIONS MAY BE USED IN ANY COMBINATION TO PRODUCE A MANHOLE OF DESIRE DEPTH, EXCEPT THE TAPERED TOP SECTION SHALL BE RETAINED AS SHOWN.

THE TAPERED TOP SECTION SHALL BE MANUFACTURED AND MEET THE SAME REQUIREMENTS AS THE MANHOLE'S SIDEWALLS, BUT SHALL CONFORM TO THE DIMENSIONS DETAILED HEREIN.

LIFTING HOLES IN THE TAPERED TOP SECTION AND THE CIRCUMFERENTIAL NOTCHES IN THE MANHOLE COVER ARE FOR HANDLING PURPOSES ONLY.

THE PRE-CAST SIDEWALL UNITS SHALL BE SET IN JOINT MORTAR OR SEALED WITH O-RING GASKETS.

PRE-CAST CONCRETE MANHOLES SHALL CONFORM TO WVDOH SPECIFICATION SECTION 715.19.

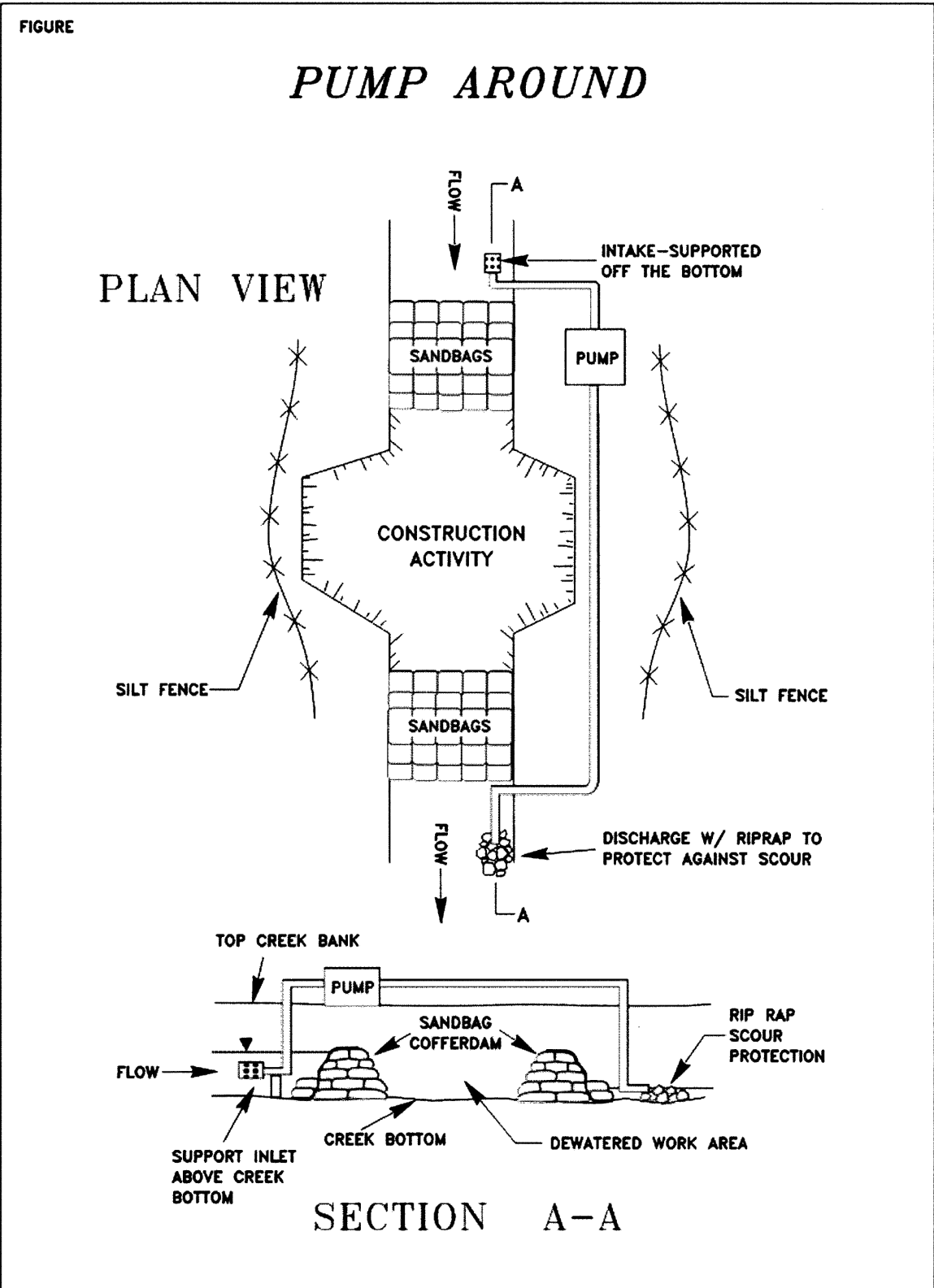
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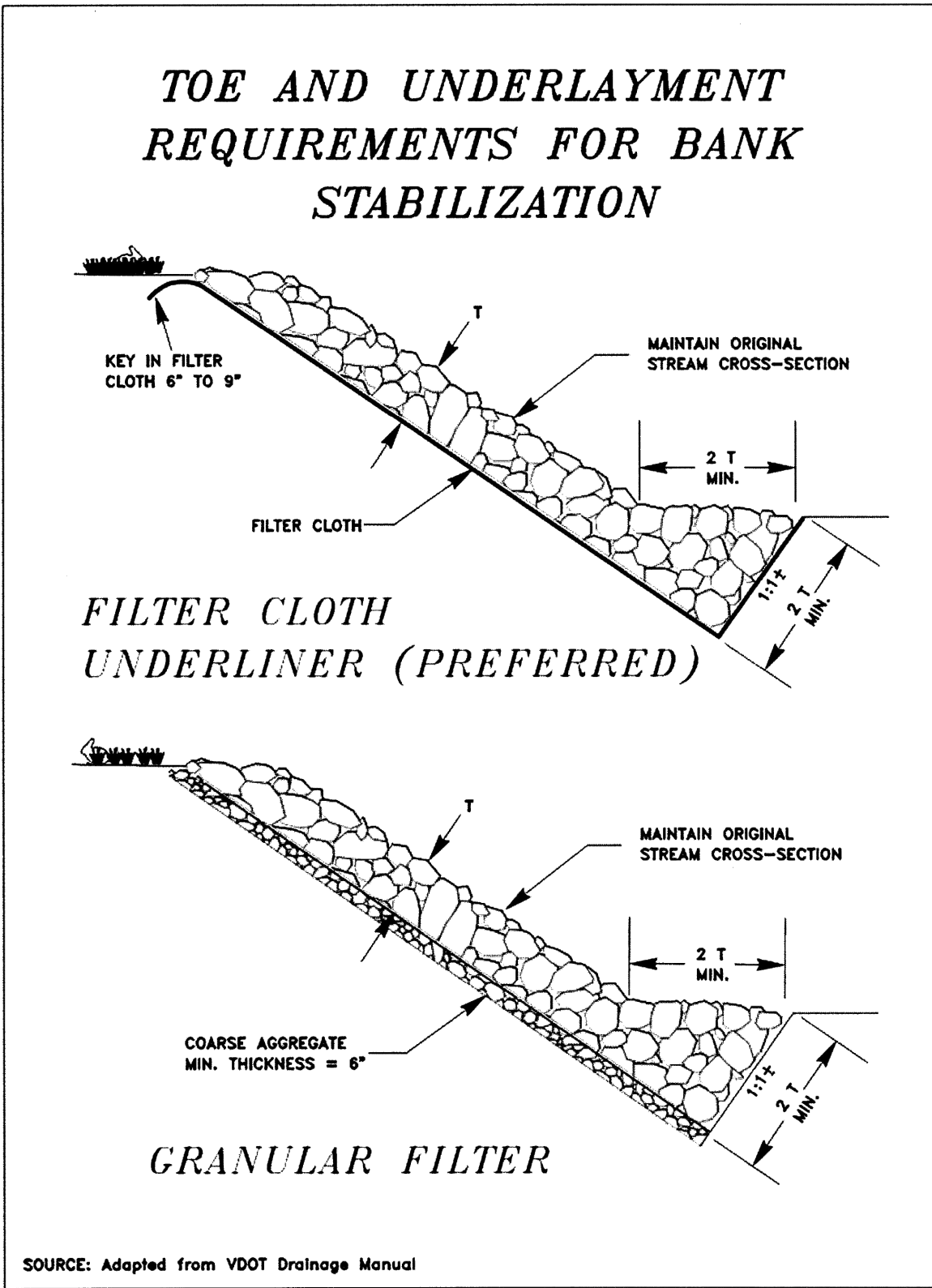
WATER POLLUTION CONTROL DIVISION
WASTEWATER COLLECTION AND TREATMENT
GC&P SEWER REPLACEMENT PHASE 2

STANDARD DETAILS

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3.21-12



3.21-18

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WATER POLLUTION CONTROL DIVISION
WASTEWATER COLLECTION AND TREATMENT
GC&P SEWER REPLACEMENT PHASE 2

STANDARD DETAILS

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