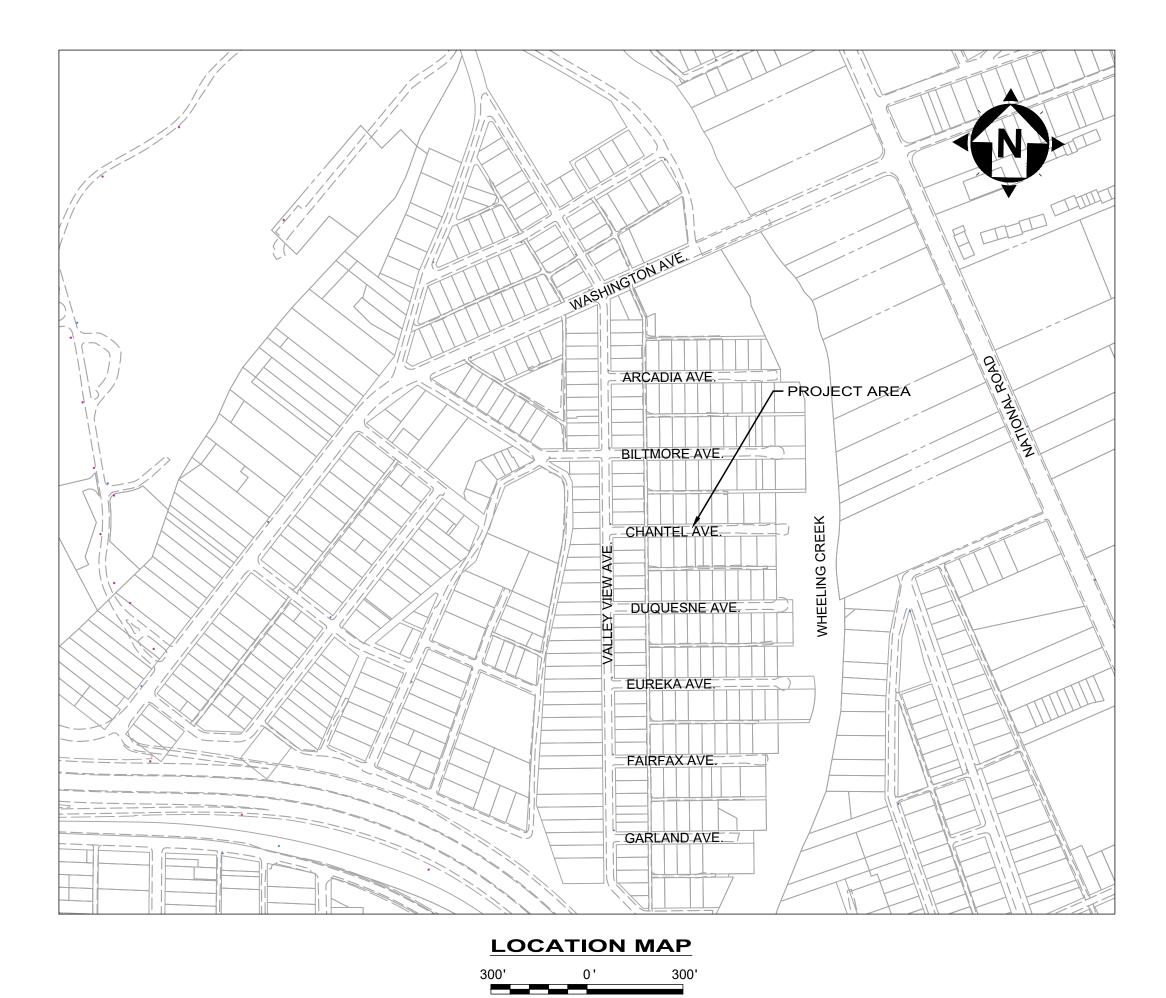


UTILITY COMPANIES					
<u>NOTE:</u> UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD MARKINGS (BY OTHERS) AND AVAILABLE RECORDS, AND AS SUCH, SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY - CALL BEFORE YOU DIG!					
SEWERS:	WATER:	ELECTRIC:			
WATER POLLUTION CONTROL DIVISION 2516 MAIN STREET WHEELING, WV 26003 (304) 234-3874 BOB WEISNER	WHEELING WATER DEPT. 9 ARMORY DRIVE WHEELING, WV 26003 (304) 234-3849 CHRIS BEISWANGER	AEP 1-800-852-6942 CHRISTINA HARPO (304) 234-3106			
STREETLIGHTS:	GAS:	GAS:			
APPALACHIAN POWER (304) 234-3106	MOUNTAINEER GAS 19TH AND WOOD STREET WHEELING, WV 26003 1-888-420-4427 x 85202 RON TROWBRIDGE (304) 276-2520	TC ENERGY CLAYTON COSS (724) 809-3239			
TELECOMMUNICATIONS	TELECOMMUNICATIONS:				
FRONTIER 995 MT DECHANTAL ROAD WHEELING, WV 26003 (304) 234-6392 KEITH WESTLAKE (304) 559-9020	COMCAST CABLE COMMUNICATIONS INC. RICHARD KOPANIC (412) 327-3122				





H:2021/210395/DWG\3C VALLEY VIEW IMPROVEMENTS\SHEETS STORMI210395-3C-STORM TITLE SHEET.DWG - TITLE SHEET - 3/21/2024 4:49:18 PM - LUCAS SKELLY

VALLEY VIEW STORM **SEWER IMPROVEMENTS**

WASTEWATER COLLECTION AND **TREATMENT SYSTEM IMPROVEMENTS** PHASE 3C

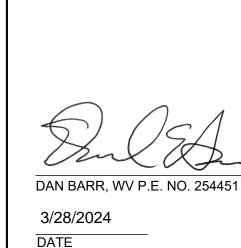
WATER POLLUTION CONTROL DIVISION CITY OF WHEELING, WV

MARCH 2024

LIST OF DRAWINGS 1 COVER SHEET 2 GENERAL NOTES 3 INDEX MAPS 4-6 PLAN AND PROFILES 7 SEDIMENT AND EROSION CONTROL 8-10 STANDARD DETAILS 11 MOT

SCALE: 1" = 300'

THE PLANS.



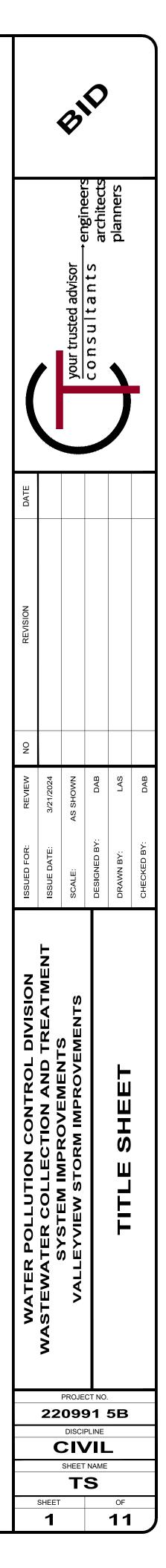
OWNER

WATER POLLUTION CONTROL DIVISION 2516 MAIN STREET WHEELING, WV 26003 PHONE: (304) 234-3874 CONTACT: ANDY HARRIS EMAIL:AHARRIS@WHEELINGWV.GOV

ENGINEER

CT CONSULTANTS 2001 MAIN STREET, SUITE 202 WHEELING, WV 26003 PHONE: (614)-779-0051 CONTACT: DÁN BARR EMAIL: DBARR@CTCONSULTANTS.COM





GENERAL

ALL ITEMS FOR THIS PROJECT SHALL CONFORM TO THE 2023 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.

- 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.
- . 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.
- 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 8110R 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.
- 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. THE CONTRACTOR SHALL LOCATE (MARK) ALL EX. UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE EXCAVATION/INSTALLATION OF THE PROPOSED SEWER
- 12. 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.
- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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

- 17. 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.
- 18. 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.
- 19. THE CONTRACTOR SHALL PROVIDE PROPER TRENCHING SUPPORT AT ALL TIMES. ANY DAMAGE TO ADJACENT STRUCTURES, PAVEMENT, SIDEWALKS, OR UTILITIES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. ALL SAID WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
- 20. EXISTING SANITARY FLOWS SHALL BE MAINTAINED AND PROPERLY BYPASSED ACCORDING TO PROJECT SPECIFICATIONS.

DISPOSAL OF MATERIALS

- 21. 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.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF MATERIALS TAKEN FROM EXCAVATIONS.
- 23. THE OPEN BURNING OF SITE CLEARING DEBRIS, TRASH, ETC. IS PROHIBITED IN THE CITY.

RESTORATION

- 24. 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.
- 25. 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

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

TREE CLEARING

- 27. ITEM SHALL CONFORM TO SECTION 201 OF THE WVDOT SPECIFICATION MANUAL. ITEM SHALL BE PAID ON A SQUARE FOOT (SF) BASIS.
- 28. NO CLEARING SHALL TAKE PLACE OUTSIDE OF THE DESIGNATED WORK LIMITS.

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29. 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 BASIS.

- PAVEMENT/SIDEWALK SECTION SHALL BE GALLONS

- PLACED (CY).

- 42. ITEM 609005 CURB RAMP ITEM SHALL BE PAID FOR ON AN EACH (EA) BASIS
- 43. ITEM 609006 DETECTABLE WARNING SURFACE

MOBILIZATION

MAINTENANCE OF TRAFFIC

- ADVANCE.
- AHEAD SIGNS, AND PEDESTRIAN BARRICADES.

STORM SEWER

48. ITEM 604052 - PLASTIC SEWER PIPE SHALL CONFORM TO SECTION 604 AND SUBSECTION 714.19 OR 714.22 OF THE WVDOT SPECIFICATION MANUAL. 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 PLACEMENT.

- EQUIPMENT, MATERIAL, INSTALLATION, AND LABOR.

- CONTRACTOR TO PICK UP FROM CITY OF WHEELING WPCD.
- F-2306; AND INSTALLATION AND BEDDING PER ASTM D-2321
- ALTERNATIVES).

FRAME: 1450Z

SPECIAL ITEMS

- 56. ITEM SPECIAL HEADWALL 1 (30" PIPE) (EA) BASIS
- 57. ITEM SPECIAL HEADWALL 2 (12" PIPE) (EA) BASIS
- 58. ITEM SPECIAL 24IN X 12IN WYE OR INSERTA-TEE
- ITEM SPECIAL STONE ALLEY SURFACE

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

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

36. 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).

37. ITEM 501001- 8" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT. THE CONTRACTOR SHALL FURNISH ALL LABOR. TOOLS, MATERIAL AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THIS ITEM TO CONFORM TO SECTION 501 OF THE WVDOT SPECIFICATIONS MANUAL . THIS ITEM SHALL INCLUDE SAW CUTTING PAVEMENT FULL DEPTH PRIOR TO EXCAVATION. THE PAY LIMIT WIDTH OF REPLACEMENT IS ESTABLISHED IN THE STANDARD DETAIL DRAWING FOR THE VARIOUS SIZE PIPES. MAXIMUM WIDTH IS PAVED AREA DISTURBED. THE UNIT OF MEASURE SHALL BE SQUARE YARDS (SY) INSTALLED AS SHOWN ON THE STANDARD DETAIL DRAWINGS, MEASURED IN PLACE.

38. ITEM 307001- 6" CLASS 1 AGGREGATE BASE COURSE, THIS ITEM SHALL CONFORM TO SECTION 307 OF THE WVDOT SPECIFICATION MANUAL. ALL WORK, LABOR, MATERIAL, DISPOSAL, EQUIPMENT, AGGREGATE, AND EXCAVATION NECESSARY TO COMPLETE WORK SHALL BE INCLUDED IN THIS ITEM. THIS ITEM SHALL BE PAID FOR BY THE CUBIC YARD

39. ITEM 401002- 2" WEARING COURSE TYPE 4. THE CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, MATERIAL AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL WEARING COURSE. THIS ITEM SHALL INCLUDE PLACEMENT OF WEARING COURSE TYPE 4 AS SHOWN ON THE STANDARD DETAIL DRAWINGS AND PER THE CONTRACT DOCUMENTS. THE PAY LIMIT WIDTH OF REPLACEMENT IS ESTABLISHED IN THE STANDARD DETAIL DRAWING FOR THE VARIOUS SIZE PIPES. MAXIMUM WIDTH IS PAVED AREA DISTURBED. ALL WORK NECESSARY TO COMPLETE THE ITEM IN ACCORDANCE WITH THE WVDOH SPECIFICATIONS (TABLE 401.4.2A) AND THE NOTES OUTLINED IN THESE PLANS. THE UNIT OF MEASURE SHALL BE TONS (TON) INSTALLED AS SHOWN ON THE STANDARD DETAIL DRAWINGS, MEASURED IN PLACE.

40. ITEM 609001 -CONCRETE SIDEWALK, THIS ITEM SHALL CONFORM TO SECTION 609 OF THE WVDOT SPECIFICATION MANUAL. ALL WORK IS TO BE PAID FOR ON A PER SQUARE YARD (SQ YD) BASIS. ALL WORK, LABOR, MATERIAL, DEMOLITION DISPOSAL, AGGREGATE, EQUIPMENT, AND EXCAVATION. SIDEWALK REPLACEMENT SHALL BE PER THE SIDEWALK DETAIL. ITEM SHALL INCLUDE ALL WORK NECESSARY TO COMPLETE THE ITEM.

41. ITEM 609002- BED COURSE MATERIAL, THIS ITEM SHALL CONFORM TO SECTION 609 OF THE WVDOT SPECIFICATION MANUAL. ALL WORK, LABOR, MATERIAL, DISPOSAL, AGGREGATE, EQUIPMENT, AND EXCAVATION NECESSARY TO COMPLETE ITEM SHALL BE INCLUDED. THIS ITEM SHALL BE PAID FOR BY CUBIC YARD (CY).

THIS ITEM SHALL CONFORM TO SECTION 609 OF THE WVDOT SPECIFICATION MANUAL. ALL WORK, LABOR, MATERIAL, DISPOSAL. AGGREGATE, EQUIPMENT, AND EXCAVATION NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED. THIS

THIS ITEM SHALL CONFORM TO SECTION 609 OF THE WVDOT SPECIFICATION MANUAL. ALL WORK, LABOR, MATERIAL, DISPOSAL. AGGREGATE, EQUIPMENT, AND EXCAVATION NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED. THIS ITEM SHALL BE PAID FOR ON AN EACH (EA) BASIS

41. 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.

42. 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. PARKING CHANGES MUST BE POSTED ALONG THE STREET IMPACTED A MINIMUM OF 24-HOURS IN

43. ROADWAYS SHALL ONLY BE CLOSED ONE LANE AT A TIME. PROVIDE A SIGNED PEDESTRIAN DETOUR, ROADWAY CLOSED

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.

45. 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.

49. ITEM 605001 ALL MANHOLES SHALL BE WVDOT TYPE A MANHOLES ACCORDING TO DETAILS. THIS ITEM SHALL CONFORM TO SECTION 605 OF THE WVDOT SPECIFICATION MANUAL. ITEM SHALL BE PAID ON AN EACH (EA) BASIS AND IS TO INCLUDE ALL EQUIPMENT, MATERIAL, INSTALLATION, AND LABOR.

50. ITEM 605004 ALL INLETS SHALL BE WVDOT TYPE B INLETS ACCORDING TO DETAILS.THIS ITEM SHALL CONFORM TO SECTION 605 OF THE WVDOT SPECIFICATION MANUAL. ITEM SHALL BE PAID ON AN EACH (EA) BASIS AND IS TO INCLUDE ALL

51. 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.

52. ALL MANHOLES LIDS SHALL BE INSTALLED FLUSH WITH GROUND

53. FOR PIPE SIZES 12"-15" THE PROPOSED STORM SEWER PIPE SHALL BE HDPE N-12 SMOOTH INTERIOR, CORRUGATED EXTERIOR PER ASTM F-2648; GASKETS PER ASTM F-477; BELL AND SPIGOT JOINTS TO ASTM D-3212; FITTINGS TO ASTM F-2306; AND INSTALLATION AND BEDDING PER ASTM D-2321. CITY OF WHEELING TO PROVIDE ALL 12" PVC PIPE.

54. FOR PIPE SIZES 18"-30" THE PROPOSED STORM SEWER PIPE SHALL BE HDPE N-12 SMOOTH INTERIOR, CORRUGATED EXTERIOR PER ASTM F-2648; GASKETS PER ASTM F-477; BELL AND SPIGOT JOINTS TO ASTM D-3212; FITTINGS TO ASTM

55. ALL MANHOLES SHALL BE CONSTRUCTED WITHOUT STEPS. MANHOLE FRAMES AND LIDS SHALL BE EAST JORDAN (NO

MH CASTING: 1450A - MARKED "STORM" (UNLESS NOTED OTHERWISE)

INLET: WV DOH TYPE B WITH 5344M GRATE

ITEM SHALL CONFORM TO WVDOT SECTION 601 CLASS B CONCRETE. ALL WORK, LABOR, EXCAVATION, AND MATERIAL INCLUDING TIDEFLEX SERIES 35-1 CHECKVALVE SHALL BE INCLUDED IN THIS ITEM. WORK SHALL BE PAID FOR ON AN EACH

ITEM SHALL CONFORM TO WVDOT SECTION 601 CLASS B CONCRETE. ALL WORK, LABOR, EXCAVATION, AND MATERIAL INCLUDING TIDEFLEX SERIES 35-1 CHECKVALVE SHALL BE INCLUDED IN THIS ITEM. WORK SHALL BE PAID FOR ON AN EACH

ITEM SHALL CONFORM TO WVDOT SUBSECTION 714.19 OR 714.22. ALL WORK, LABOR, AND MATERIAL SHALL BE INCLUDED IN THIS PAY ITEM. ITEM SHALL BE PAID FOR ON AN EACH (EA) BASIS

IN AREAS WITH STONE ALLEY, CITY OF WHEELING TYPE D TRENCH SHALL BE SURFACED WITH 6" NO. 467 STONE TOPPED WITH 1" AASHTO #8. ITEM SHALL BE INCLUDED IN THE UNIT COST FOR 30" SEWER PIPE (TYPE D WITH STONE SURFACE). ALL WORK, LABOR, MATERIAL, AND EQUIPMENT USED TO FACILITATE THE INSTALLATION OF STONE SHALL BE INCLUDED IN THIS PAY ITEM. INSTALLATION SHALL BE PAID FOR ON A SQUARE YARD (SY) BASIS

59. 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.

- 52. 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 CONTRACTOR 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.
- 53. .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.

54. ITEM SPECIAL - REMOVE AND REPLACE FENCE IN KIND ALL WORK, LABOR, MATERIAL, AND EQUIPMENT USED TO FACILITATE THE REMOVAL AND REPLACEMENT OF THE EXISTING FENCE SHALL BE INCLUDED IN THIS PAY ITEM. REMOVAL AND REPLACEMENT SHALL BE PAID ON A LINEAR FOOT (LF) BASIS

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

56. ITEM SPECIAL - INLET REMOVED: WORK IS TO BE PAID FOR ON AN EACH (EA) BASIS. ALL WORK, LABOR, MATERIAL, BACKFILL, EQUIPMENT, DISPOSAL AND EXCAVATION SHALL BE INCLUDED WITH THIS PAY ITEM.

57. ITEM SPECIAL - CONCRETE CURB REPLACEMENT CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, MATERIAL, DEMOLITION, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL REPLACEMENT OF CURBS DAMAGED AS A RESULT OF THIS PROJECT. CURB REPLACEMENT SHALL BE PER THE CONCRETE CURB DETAIL. ITEMS SHALL BE PAID ON A LINEAR FOOT (LF) BASIS

58. ITEM SPECIAL - EROSION CONTROL THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH E&S CONTROL SHEET AND THE 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.

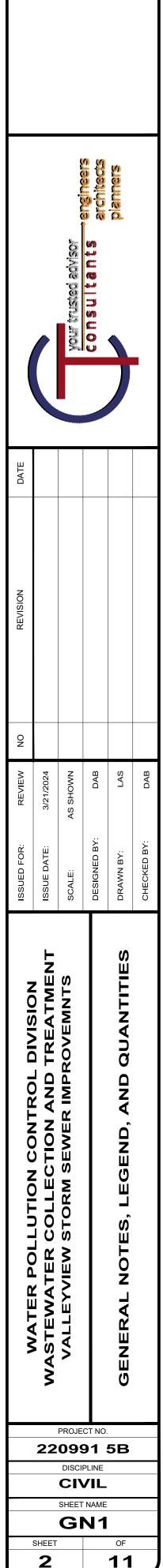
59. ITEM SPECIAL- SEEDING AND MULCHING (WHEELING) THE CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, MATERIAL AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL SURFACE COVERING. THIS ITEM SHALL INCLUDE ALL NECESSARY GRADING, TOPSOIL, FERTILIZER, WATER, SEED AND MULCH TO REPLACE THE DISTURBED OR DAMAGED AREA. COMPLETE AND IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ITEM SHALL INCLUDE ALL WORK NECESSARY TO COMPLETE THE ITEM IN ACCORDANCE WITH WVDOH 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.

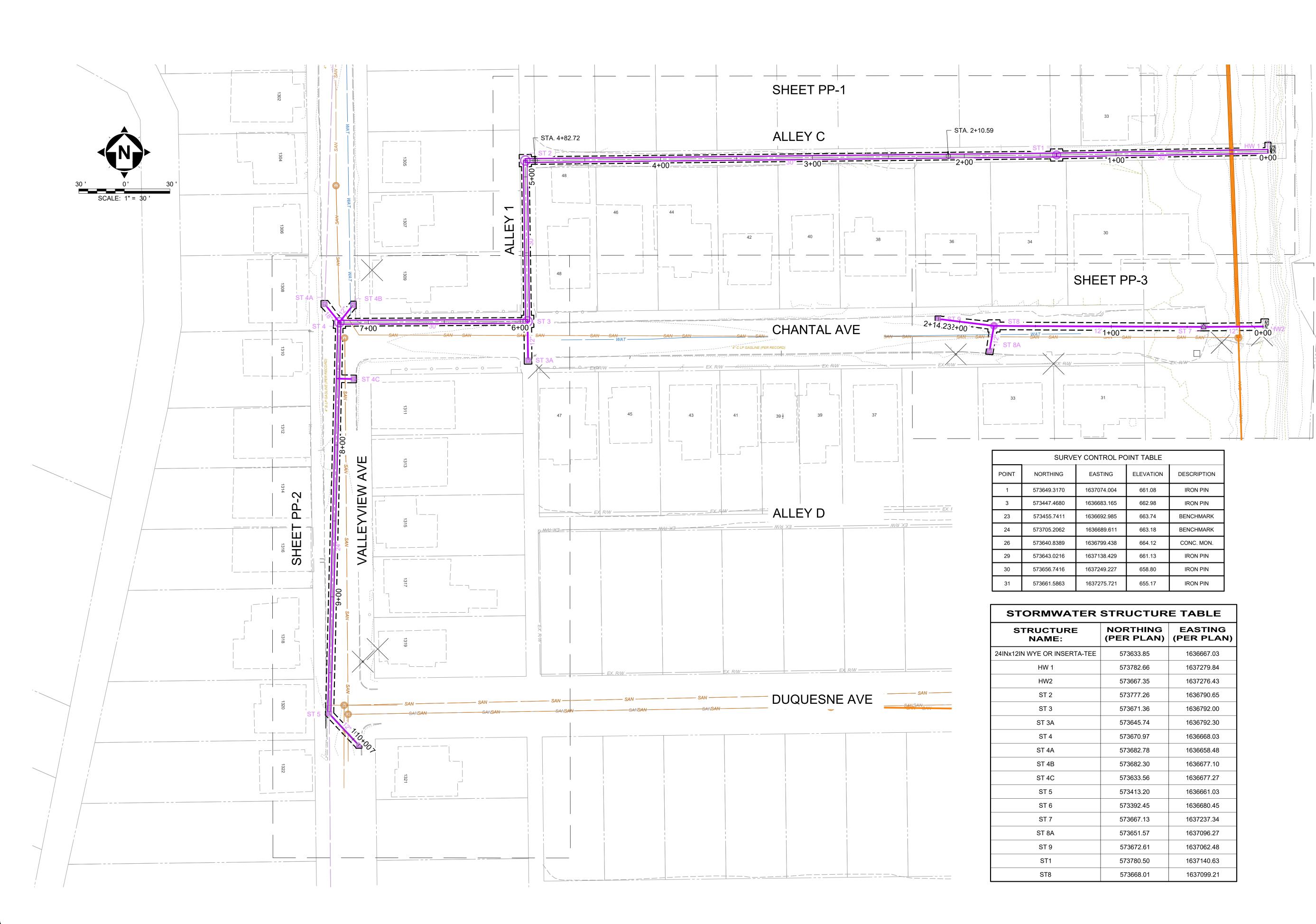
60. ITEM SPECIAL - REMOVE AND REPLACE WATER METER CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, MATERIAL, DEMOLITION, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL REPLACEMENT OF EXISTING WATER METER. ITEMS SHALL BE PAID ON AN EACH (EA) BASIS

61. ITEM SPECIAL- DOCUMENTATION OF SITE THE CONTRACTOR SHALL VIDEO RECORD THE PROJECT SITE PRIOR TO START OF ACTIVITIES IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. 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.

NO	ITEM	DESCRIPTION	UNIT	QUANT.
1	639001	CONSTRUCTION LAYOUT STAKES	LS	1
2	204001	MOBILIZATION	LS	1
3	636001	MAINTENANCE OF TRAFFIC	LS	1
4	408002	TACK COAT	GAL	69
5	415005	2" MILLING	SY	151
6	501001	8" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT	SY	540
7	401002	2" WEARING COURSE TYPE 4	TON	77
8	307001	6" CLASS 1 AGGREGATE COURSE BASE	TON	180
9	609001	4" CONCRETE SIDEWALK	SY	58
10	609002	4" BED COURSE BASE MATERIAL	SY	58
11	609005	CURB RAMP	EA	2
12	609006	DETECTABLE WARNING SURFACE	EA	2
13	604052	30" PLASTIC SEWER PIPE (TYPE D TRENCH)	LF	483
14	604052	30" PLASTIC SEWER PIPE (TYPE A-1 TRENCH)	LF	235
15	604052	24" PLASTIC SEWER PIPE (TYPE A-1 TRENCH)	LF	257
16	604052	18" PLASTIC SEWER PIPE (TYPE A-1 TRENCH)	LF	23
17	604052	12" PLASTIC SEWER PIPE (TYPE A-1 TRENCH INSTALLATION ONLY)	LF	276
18	604052	12" PLASTIC SEWER PIPE (TYPE D TRENCH INSTALLATION ONLY)	LF	36
19	605001	MANHOLE TYPE A (48" DIAMETER BASE)	EA	1
20	605001	MANHOLE TYPE A (60" DIAMETER BASE)	EA	1
21	605001	MANHOLE TYPE A (72" DIAMETER BASE)	EA	3
22	605004	TYPE B INLET	EA	9
23	SPEC	HEADWALL 1 (30" PIPE)	EA	1
24	SPEC	HEADWALL 2 (12" PIPE)	EA	1
25	SPEC	24IN X12IN" WYE OR INSERTA-TEE	EA	1
26	SPEC	STONE ALLEY SURFACE	SY	157
27	SPEC	UNSUITABLE BACKFILL CONTINGENCY	CY	250
28	SPEC	BULKHEAD FOR SEWER	EA	4
29	SPEC	SEWER FLOW CONTROL	LS	1
30	SPEC	MARKER TAPE AND LOCATOR WIRE	LF	1310
31	SPEC	SEEDING AND MULCHING	SY	578
32	SPEC	EROSION CONTROL	LS	1
33	SPEC	TREE CLEARING AND GRUBBING	LS	1
34	SPEC	REMOVE AND REPLACE FENCE IN KIND	LF	95
35	SPEC	CONCRETE CURB REPLACEMENT	LF	143
36	SPEC	INLET REMOVED	EA	5
37	SPEC	REMOVE AND REPLACE WATER METER	EA	1
38	SPEC	DOCUMENTATION OF SITE	LS	1

LEGEND	
EX. BUILDING	
EX. CONTOUR	805
CENTER LINE	
EX. R/W	
EX. PROPERTY LINE	
EX. FENCE	X X X
EX. WAT	WAT
EX. ELECTRIC	ELEC-OH
EX. SAN	SAN
EX. STM	STM
EX. GAS	GAS
EX. OH UTIL	UTIL-OH
EX. FIBER OPTIC	———— FOC-UG ————
EX. DRIVEWAY	
EX. EASEMENT	
EX. VEGETATION	
PR. MILLING	
PR. TRENCH	
PR. SANITARY LINE	X" SAN
PR. SAN. LATERAL REPLACEMEN	T SS
EXISTING SAN. LATER	SS
EXISTING WATER VALVE	Q
EXISTING FIRE HYDRANT	0
EXISTING CURB INLET EXISTING CATCH BASIN	
EXISTING GAS METER	GM
EXISTING UTILITY POLE	$\begin{array}{c} \mathcal{U} \\ \varphi \end{array}$
EXISTING TRAFFIC CONTROL PO	LE F 6
EXISTING LIGHT POLE	Ŕ
EXISTING GUY WIRE	<
EXISTING CABLE TV PEDESTAL	CP
EXISTING SIGN	
EXISTING MAILBOX	
SURVEY BENCHMARK	
PROPOSED SANITARY MANHOLE	\mathbf{S}
TC = TOP OF CASTING	
ToC = TOP OF CONCRETE	
	ONSTRUCT THE PROJECT IN PLANS AND SPECIFICATIONS.
THE CONTRACTOR IS DIRE	
THEIR BID. ANY ITEMS OF	WORK CALLED FOR ON THE ECIFIC METHOD OF PAYMENT IS
INDICATED SHALL BE PERF	FORMED BY THE CONTRACTOR
AND THE COST OF WORK S PRICE FOR THE VARIOUS I	SHALL BE INCLUDED IN THE UNIT BID ITEMS.



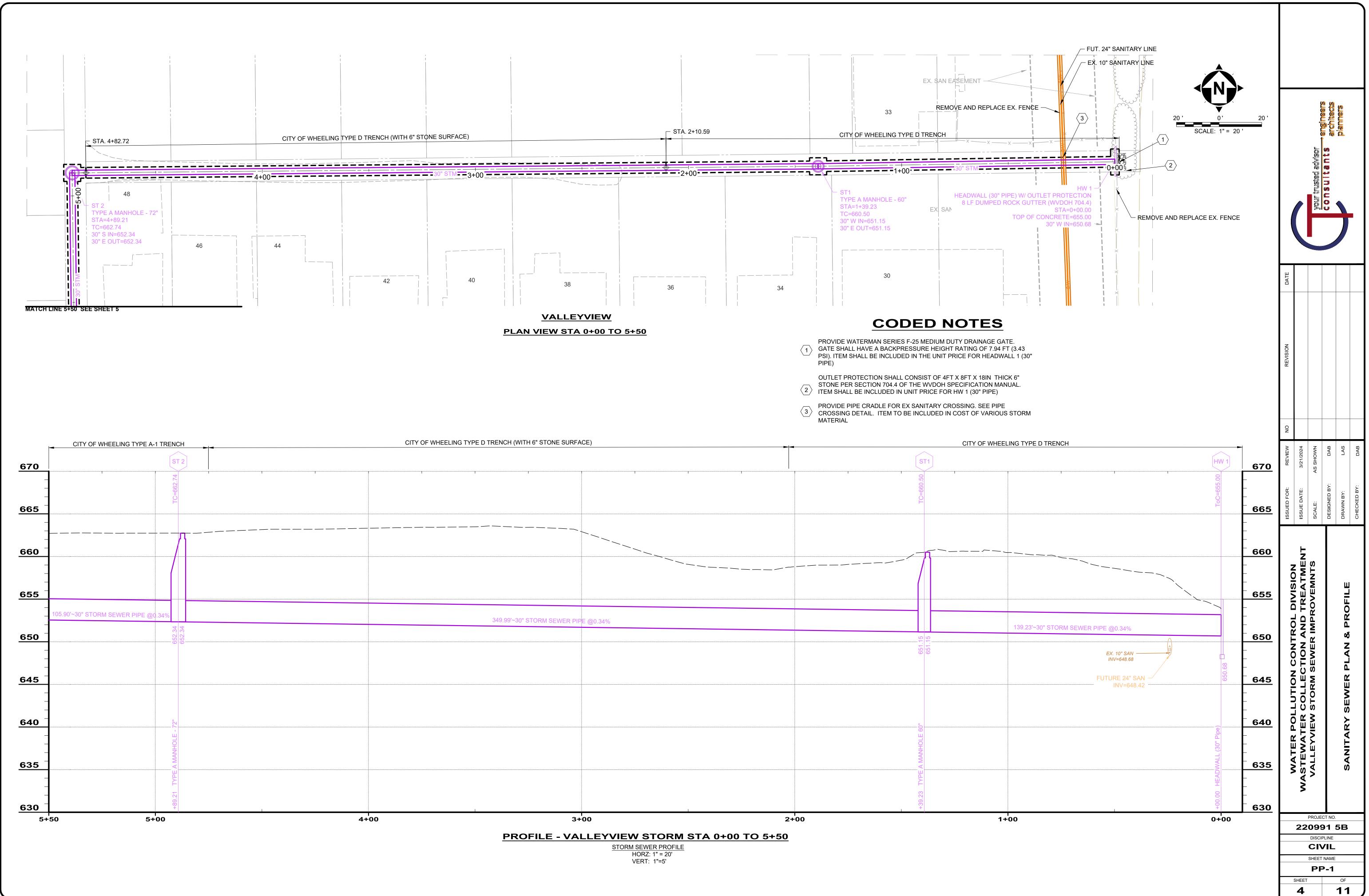


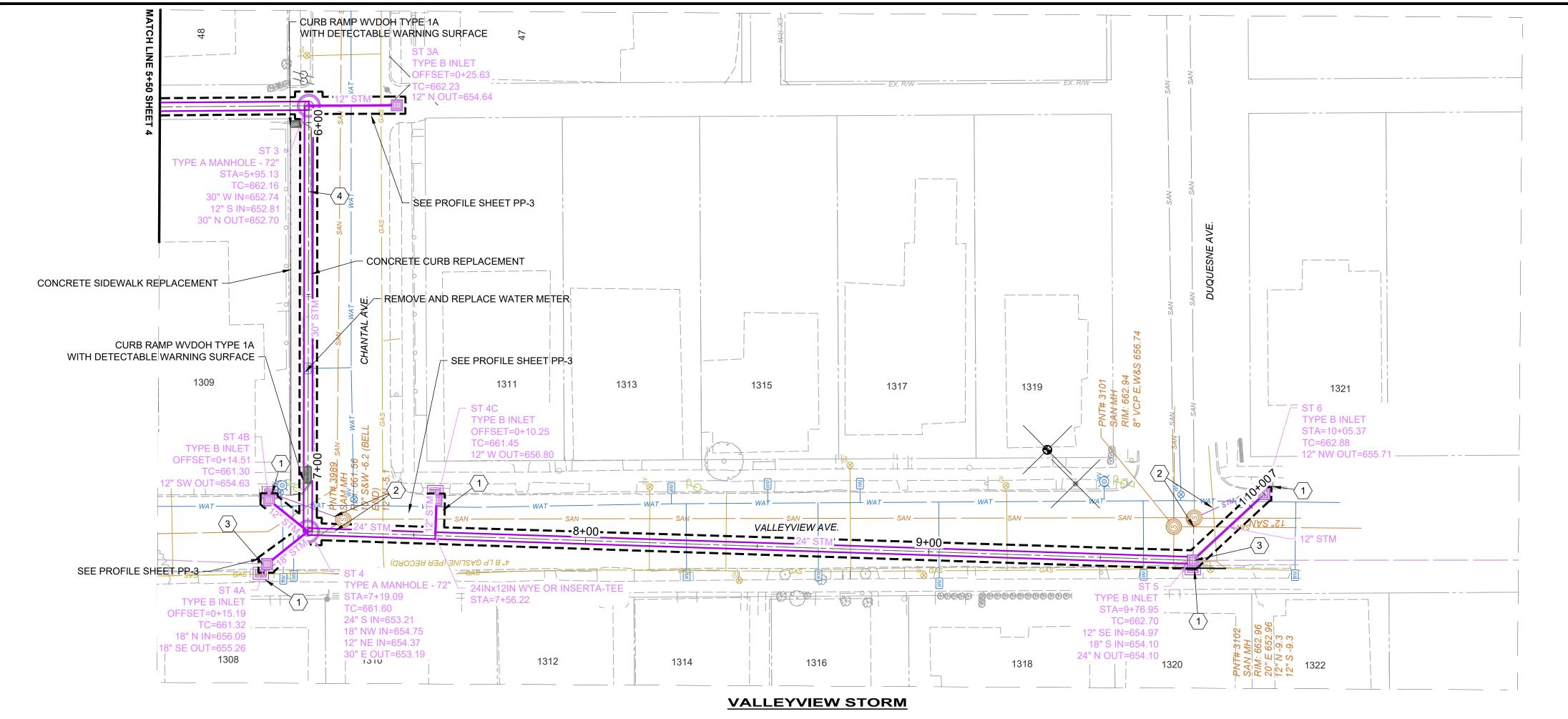
H:\2021\210395\DWG\3C_VALLEY VIEW IMPROVEMENTS\SHEETS STORMIC_210395_STORM PLAN AND PROFILE ALLEY.DWG - INDEX - 3/21/2024 4:48:43 PM - LUCAS SKELLY

RVE	Y CONTROL PO	DINT TABLE						
	EASTING	ELEVATION	ELEVATION DESCRIPTION					
	1637074.004	661.08	IRON PIN					
	1636683.165	662.98	IRON PIN					
	1636692.985	663.74	BENCHMARK					
	1636689.611	663.18	BENCHMARK					
	1636799.438	664.12	CONC. MON.					
	1637138.429	661.13	IRON PIN					
	1637249.227	658.80	IRON PIN					
	1637275.721	655.17	IRON PIN					

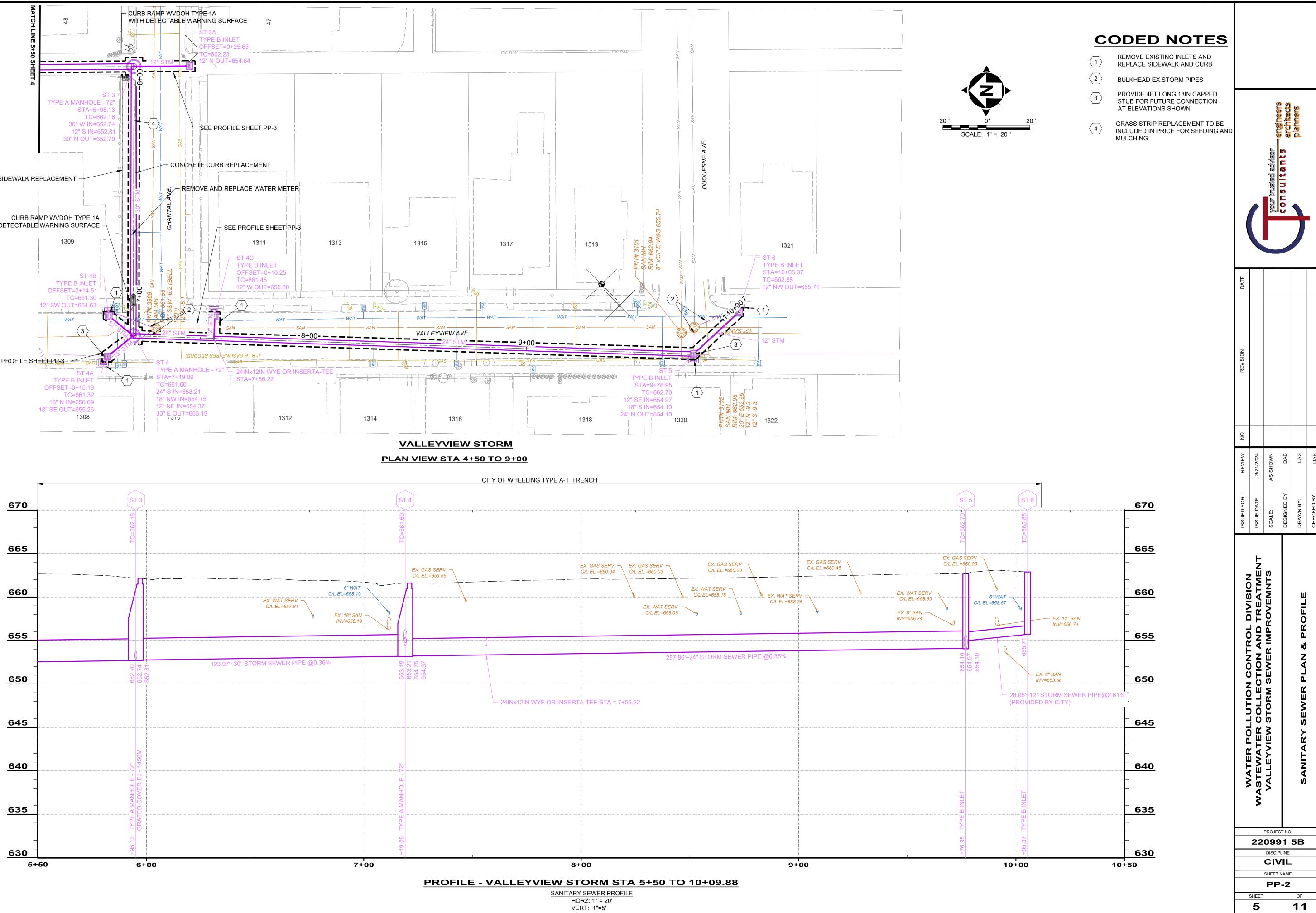
TER	STRUCTUR	E TABLE
RE	NORTHING (PER PLAN)	EASTING (PER PLAN)
RTA-TEE	573633.85	1636667.03
	573782.66	1637279.84
	573667.35	1637276.43
	573777.26	1636790.65
	573671.36	1636792.00
	573645.74	1636792.30
	573670.97	1636668.03
	573682.78	1636658.48
	573682.30	1636677.10
	573633.56	1636677.27
	573413.20	1636661.03
	573392.45	1636680.45
	573667.13	1637237.34
	573651.57	1637096.27
	573672.61	1637062.48
	573780.50	1637140.63
	573668.01	1637099.21

		WATER POLITITION CONTROL DIVISION	ISSUED FOR:	REVIEW	ON	REVISION	DATE		
22		WASTEWATER COLLECTION AND TREATMENT	ISSUE DATE:	3/21/2024					
DISCI		VALLEYVIEW STORM SEWER IMPROVEMNTS	SCALE:	AS SHOWN				your trusted advisor	
91 : PLINE	CT NO.		DESIGNED BY:	DAB				consuitants engineers architects	
5B		INDEX MAP/SURVEY CONTROL	DRAWN BY:	LAS				biamers	
			CHECKED BY:	DAB					

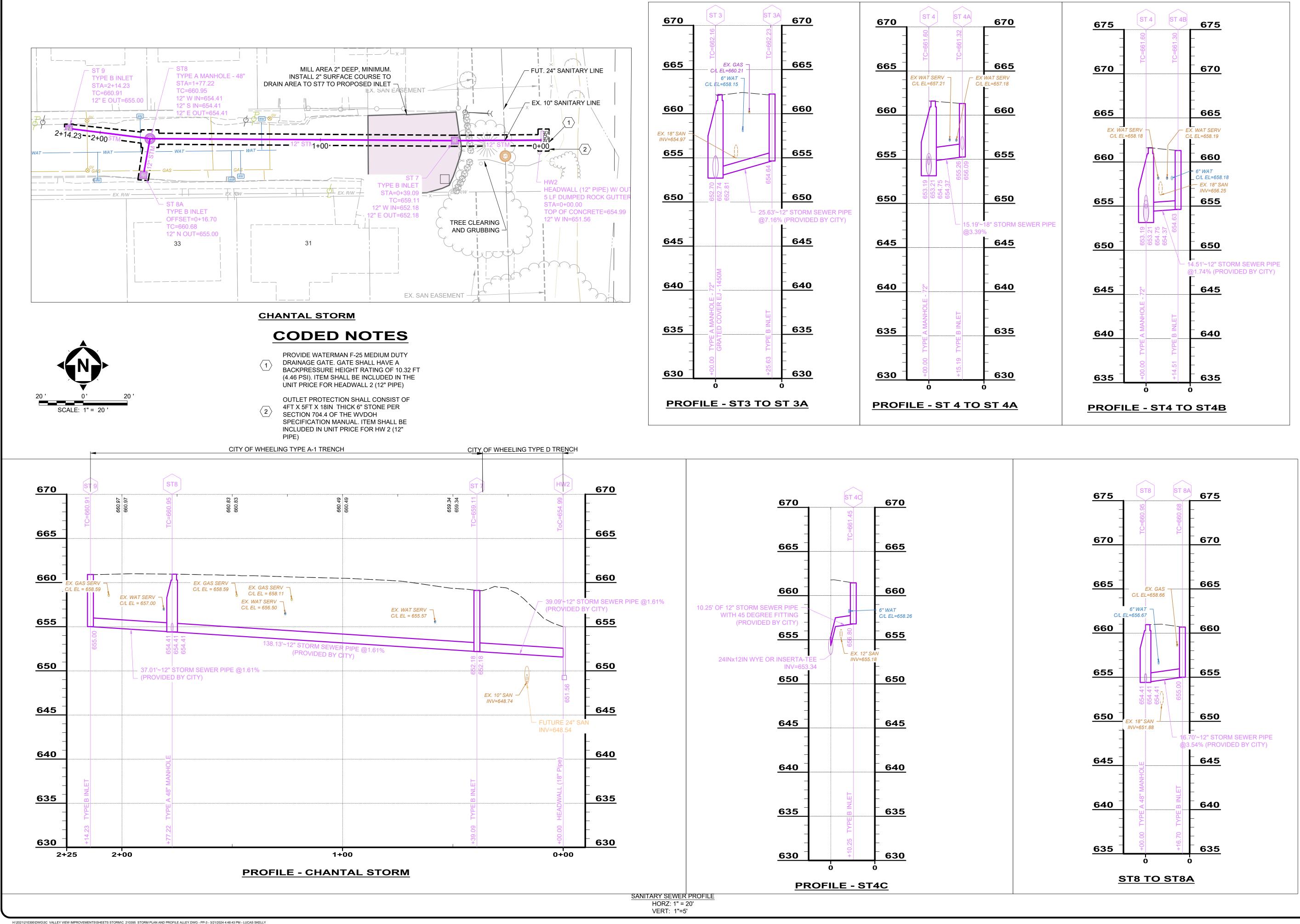


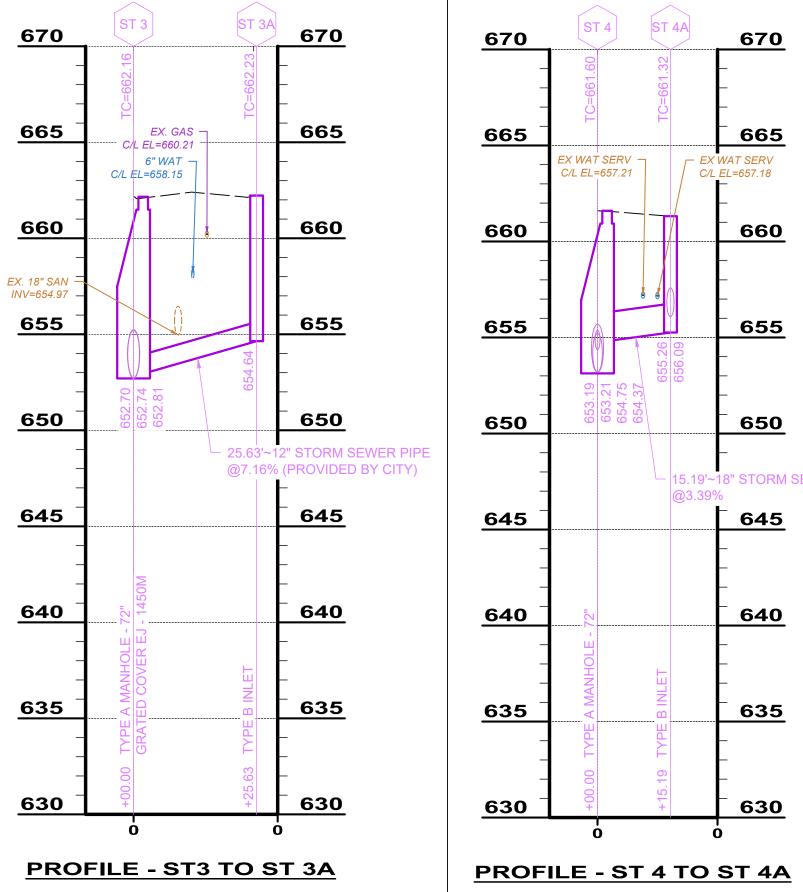


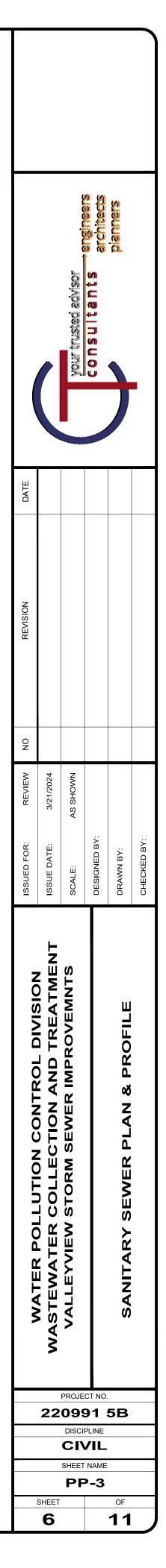


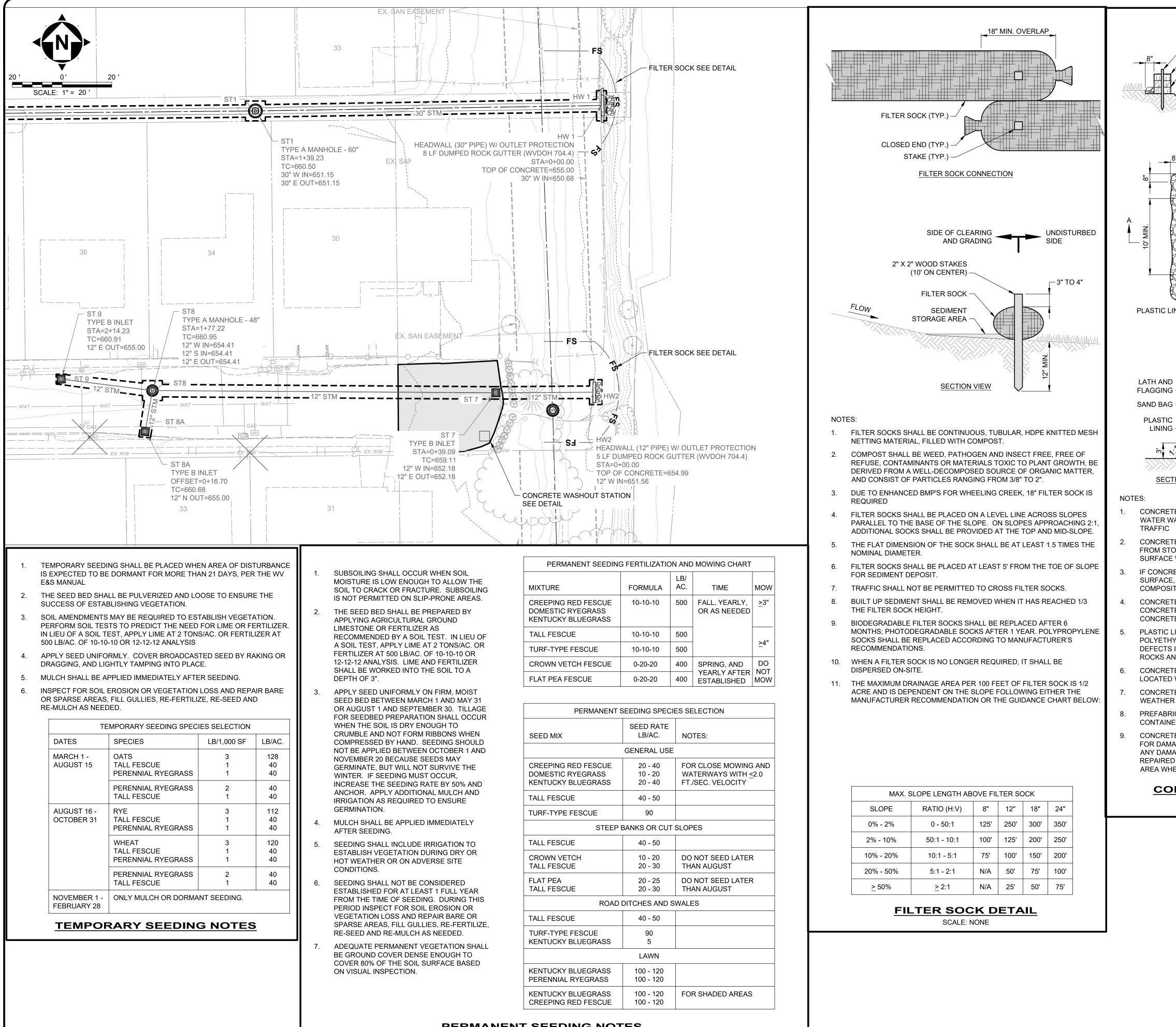












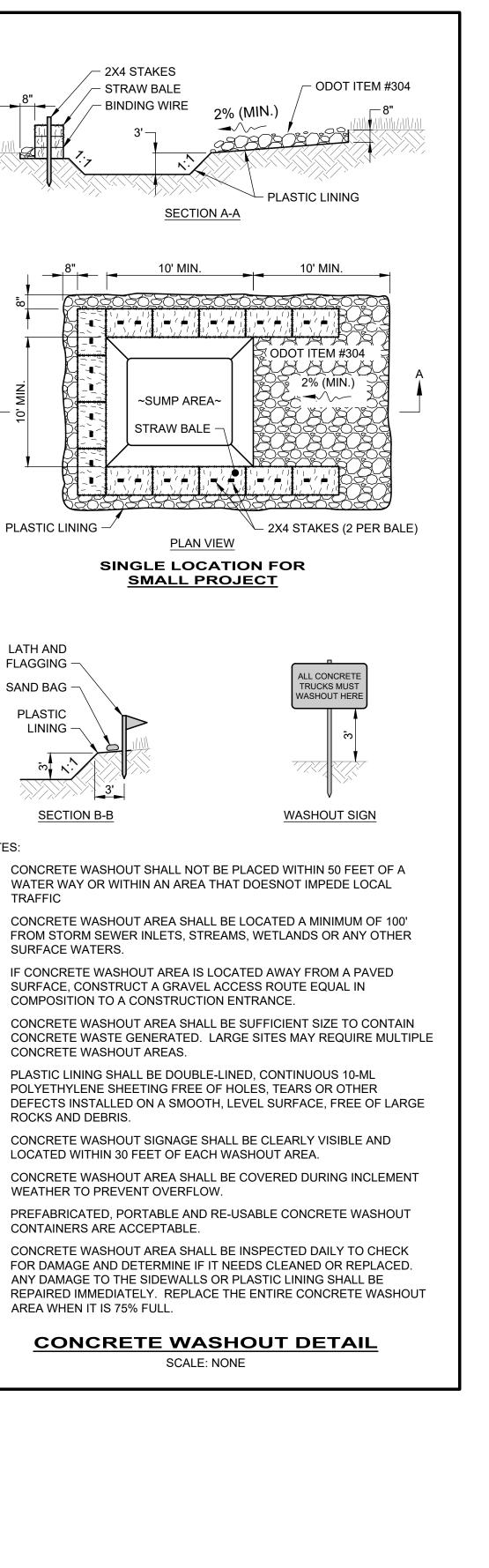
PERMANENT SEEDING NOTES

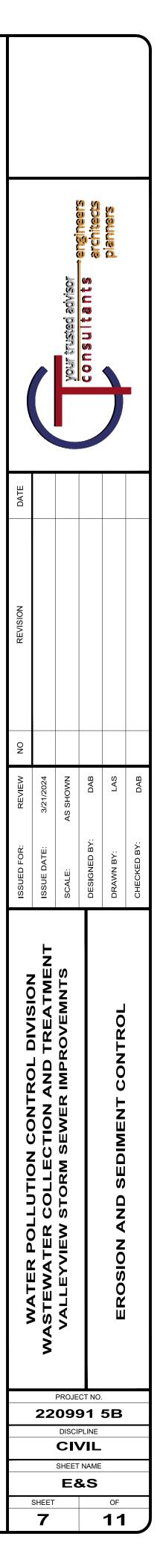
H:22021/210395/DWG/3C VALLEY VIEW IMPROVEMENTS/SHEETS STORM/C 210395_STORM PLAN AND PROFILE ALLEY.DWG - E&S - 3/21/2024 4:48:43 PM - LUCAS SKELLY

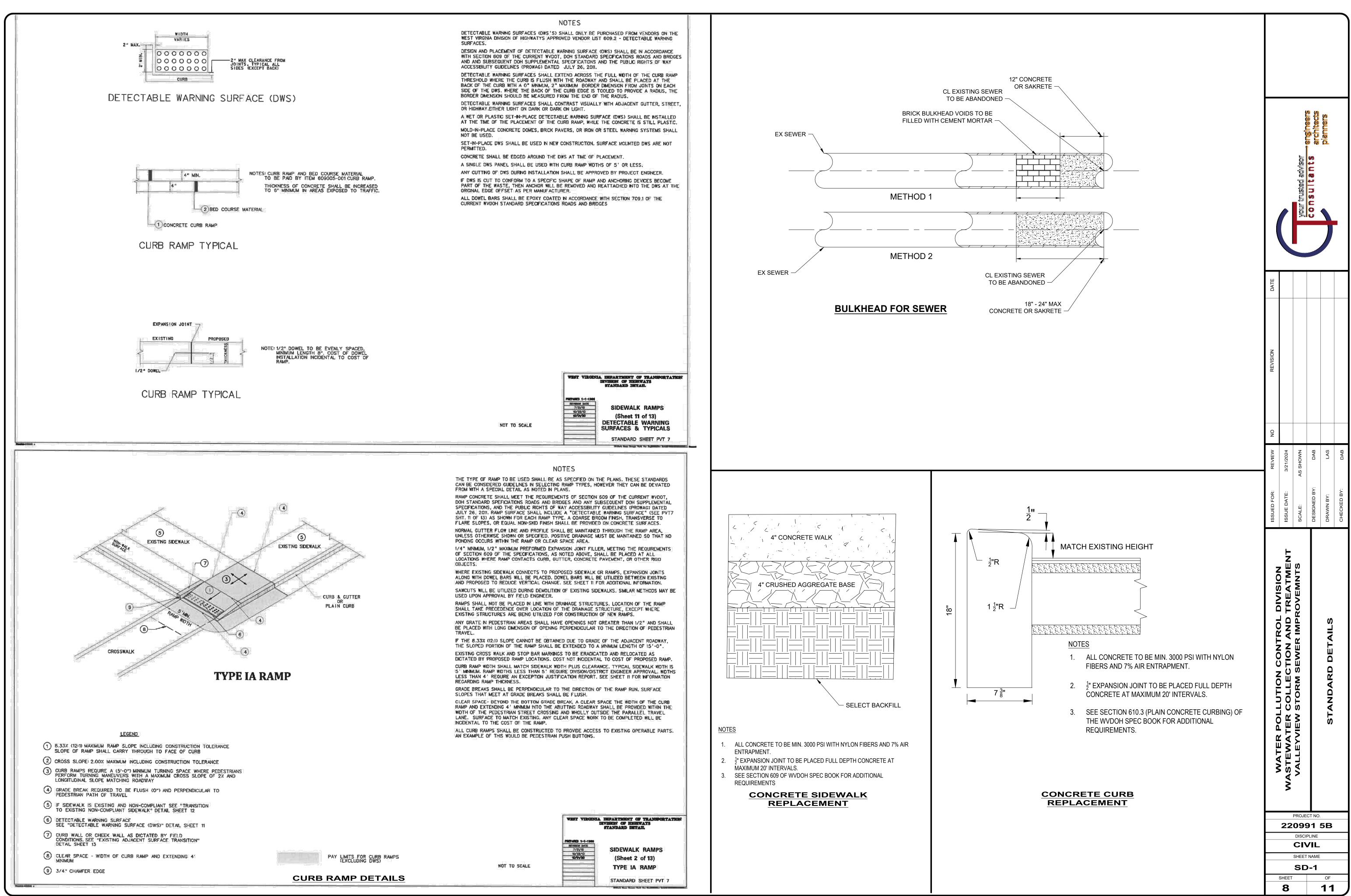
MAX. S	MAX. SLOPE LENGTH ABOVE FILTER SOCK						
SLOPE	RATIO (H:V)	8"	12"	18"	24"		
0% - 2%	0 - 50:1	125'	250'	300'	350'		
2% - 10%	50:1 - 10:1	100'	125'	200'	250'		
10% - 20%	10:1 - 5:1	75'	100' 150'		200'		
20% - 50%	5:1 - 2:1	N/A	50'	75'	100'		
<u>></u> 50%	<u>></u> 2:1	N/A	25'	50'	75'		

TRAFFIC

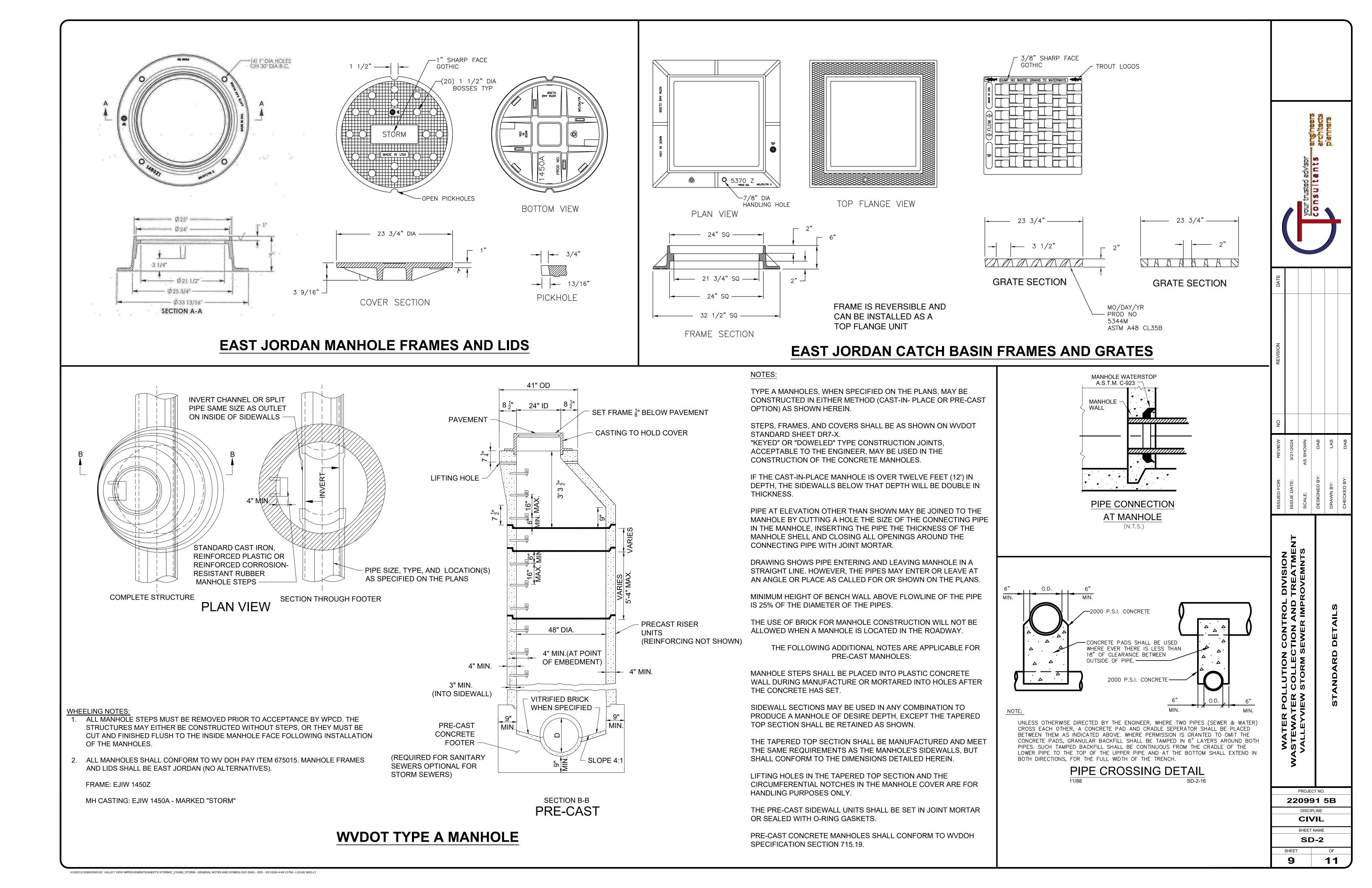
- SURFACE WATERS.

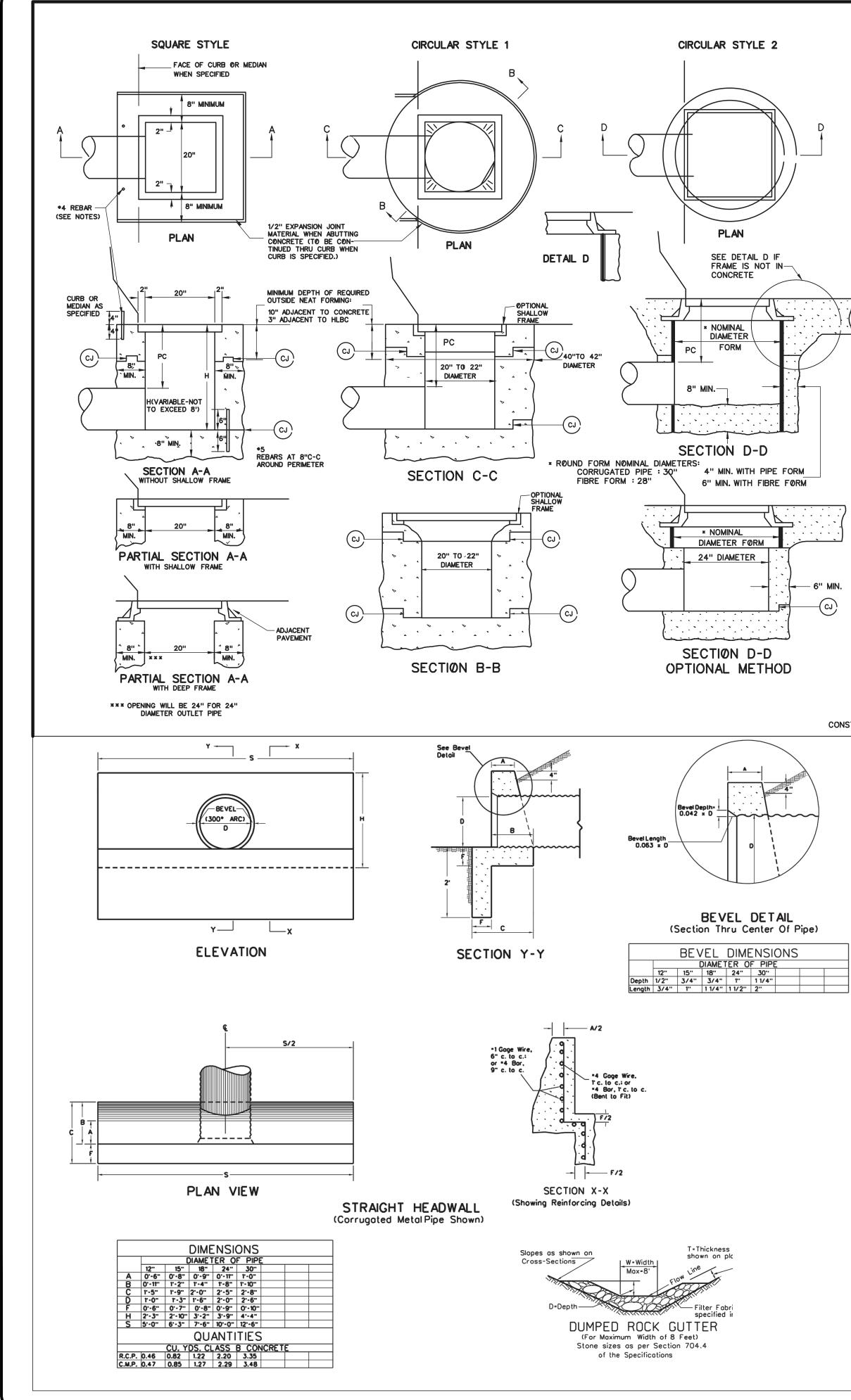






H:2021/210395/DWG/3C VALLEY VIEW IMPROVEMENTS/SHEETS STORM/C_210395_STORM - GENERAL NOTES AND SYMBOLOGY.DWG - SD1 - 3/21/2024 4:49:12 PM - LUCAS SKELLY





H:2021/210395/DWG/3C VALLEY VIEW IMPROVEMENTS/SHEETS STORM/C 210395 STORM - GENERAL NOTES AND SYMBOLOGY.DWG - SD3 - 3/21/2024 4:49:12 PM - LUCAS SKELLY

NOTES

UNLESS OTHERWISE SPECIFIED ON THE PLANS, TYPE B INLETS MAY BE CONSTRUCTED IN ANY OF THE SHAPES SHOWN WHEN THE OUTLET PIPE DIAMETERS IS 21" OR LESS AND THE ADJACENT PAVEMENT IS CONCRETE. IF THE OUTLET PIPE DIAMETER IS 24" OR THE ADJACENT PAVEMENT IS HOT MIX ASPHALT, ONLY THE SQUARE STYLE WITH THE DEEP FRAME WILL BE USED. THE INSIDE OPENING OF THE INLET

CONSTRUCTION MAY BE CAST-IN-PLACE, PRECAST IN ONE OR MULTIPLE SECTIONS, OR ANY COMBINATION OF CAST-IN-PLACE AND PRECAST

WILL BE ADJUSTED TO ACCOMODATE THE 24" PIPE.

OPTIONAL CONSTRUCTION JOINTS LABELED "CJ" MAY BE ROUGHENED CONCRETE, KEYED OR DOWELED AS PER THE TYPICAL DETAILS SHOWN HEREIN, OR AS APPROVED BY THE ENGINEER, NON SHRINK GROUT MEETING THE REQUIREMENTS OF SUBSECTION 715.5 OF THE SPECIFICATIONS MAY BE USED TO A DEPTH OF 1/2" FOR LEVELING BETWEEN PRECAST SECTIONS. THICKER DEPTHS WILL BE ALLOWED AS PER THE MANUFACTURER'S RECOMMENDATIONS.

THE FINAL INSTALLED TOP SURFACE OF INLET AND GRATE SHALL BE FLUSH WITH ADJACENT FINISHED SURFACES SUCH AS PAVEMENT, GUTTERS, CURBS, AND SIDEWALKS. TOP OF GRATE ELEVATION, IF SHOWN ON THE PLANS, IS FOR INFORMATION ONLY.

REBARS ARE TO BE INSTALLED AT THE QUARTER POINTS TØ CONNECT CURB TO INLET. REBARS ARE NOT REQUIRED IF CURB IS POURED MONOLITHICALLY WITH THE INLET OR IF TYPE V OR VIMEDIAN IS SPECIFIED ON THE PLANS.

FOR DETAILS OF GRATES AND FRAMES, SEE INLET CASTING STANDARD SHEET DR6-X.

THE CONTRACTOR MAY, AT HIS OPTION, OMIT USE OF THE SHALLOW FRAME BY FORMING A LEDGE IN THE CONCRETE. SPECIAL CARE SHALL BE EXERCISED IN FORMING THE 2" WIDE CONCRETE LEDGE TO PROVIDE A SMOOTH, EVEN SURFACE FOR SUPPORTING THE GRATE IF A FRAME IS NOT USED. NO PROJECTIONS SHALL EXIST ON THE GRATE AND THE GRATE SHALL SEAT ON THE LEDGE WITHOUT ROCKING.

FIBRE FORM SHALL BE REMOVED PRIOR TO COMPLETION OF THE PROJECT.

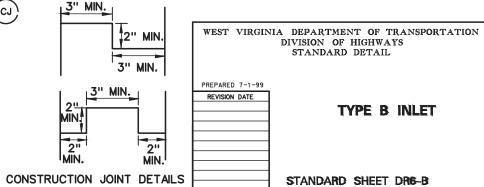
PC(MINIMUM PIPE COVER) SHALL BE 12" BELØW INLET TOP FOR PIPES PLACED UNDER SIDEWALK OR GRASSED AREA OR 24" BELOW INLET TOP FOR PIPES PLACED UNDER PAVEMENT OR SHOULDER.

CURB, IF SPECIFIED, MAY BE EITHER CONCRETE PLACED ON THE INLET BACKWALL AS DETAILED HEREIN OR AN APPROVED CURB BOX AS MANUFACTURED WITH THE GRATE AND FRAME. DIMENSIONS OF THE CURB BOX SHOULD REASONABLY CONFORM TO THE STANDARD CURB AS SPECIFIED ON THE PLANS. THE CURB WILL BE PAID FOR PER SECTION 610, IN EITHER CASE.

THIS INLET SHALL NOT BE PLACED IN A PEDESTRIAN CROSS WALK.

THE MINIMUM DISTANCE FROM THE TOP OF ANY PIPE OPENING TO ANY CONSTRUCTION JOINT ABOVE THE OPENING SHALL BE FOUR (4) INCHES.

THE NUMBER AND LOCATION OF PIPE OPENINGS SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR AT NO ADDITIONAL COST, SHALL BE RESPONSIBLE FOR ANY TEMPORARY BRACING REQUIRED TO TRANSPORT PRECAST INLET SECTIONS DUE TO MUTIPLE OPENINGS.



IE	INSI	ONS		
0	F PIPE			
	30''			
	1 1/4"			
•	2"			

NOTES

All concrete shall be Class "B" Concrete. All concrete edges shall have a $3/4" \times 45^\circ$ chamfer. Chamfer on vertical edges shall be continued a minimum of one foot below inished ground line.

When headwalls are placed on the inlet end of corrugated metal pipe or skewed concrete pipe, a bevel shall be used at the inlet opening. The end of the pipe shall be set in from the face of the wall, as shown on the "Bevel Detail", and the bevel constructed from the end of the pipe to the face of the wall.

When headwalls are placed on the inlet end of concrete pipe, the "bell" or "groove" of the pipe shall be placed in the wall in lieu of the bevel, except when the pipe is to be cut for placing in skewed headwalls. The inside of the "bell" or "groove" shall be filled with concrete up to the file time line filled with concrete up to the flow line.

Bevels are not required on outlet headwalls. Reinforcing fabric shall conform to the requirements of 709.3 and 709.4 of the Specifications.

Reinforcing fabric, as detailed herein, shall be used in all walls of all headwall structures. The covering for the fabric shall be two inches, measured from the surface of the concrete to the face of the wire, unless otherwise specified. The fabric shall be cut as necessary to accommodate the pipe opening in the wall and may be otherwise cut or field bent to fit the structure.

In lieu of the reinforcing fabric described above, as shown reinforcing steelbars, meeting the requirements of 709.1 of the Specification, may be used in these structures. Covering for the reinforcing shall be two inches, measured from the surface of the concrete to the face of the bars, unless otherwise specified. Bors shall be furnished in such lengths, or field bent or cut as necessary, to fit the structures and to accommodate the pipe opening in the walls.

Keyed or doweled type construction joints, acceptable to the Engineer, may be used during construction.

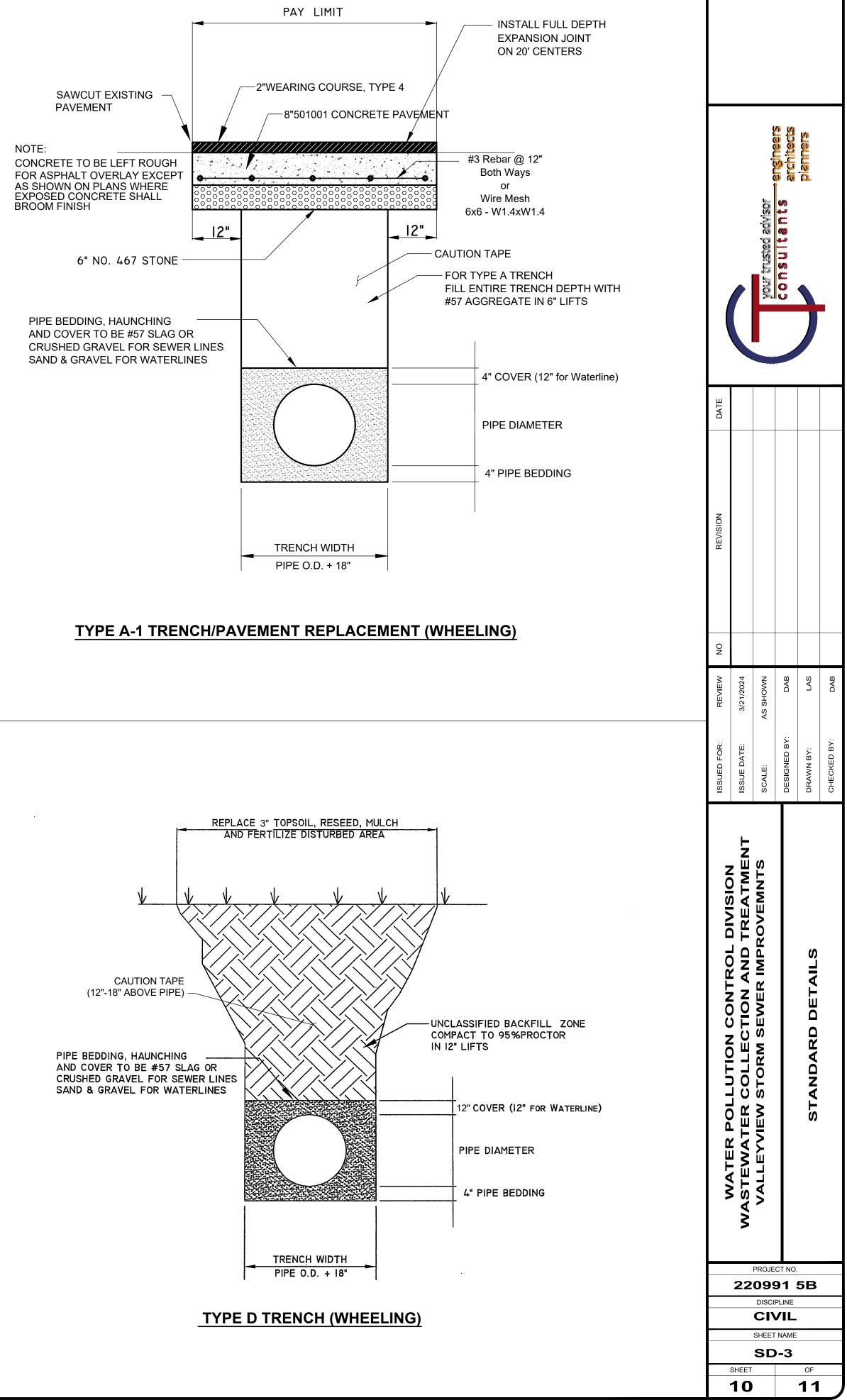
The pay quantity for Straight Headwalls, constructed in accordance with the details herein, will be the cubic yords of Class B Concrete specified herein.

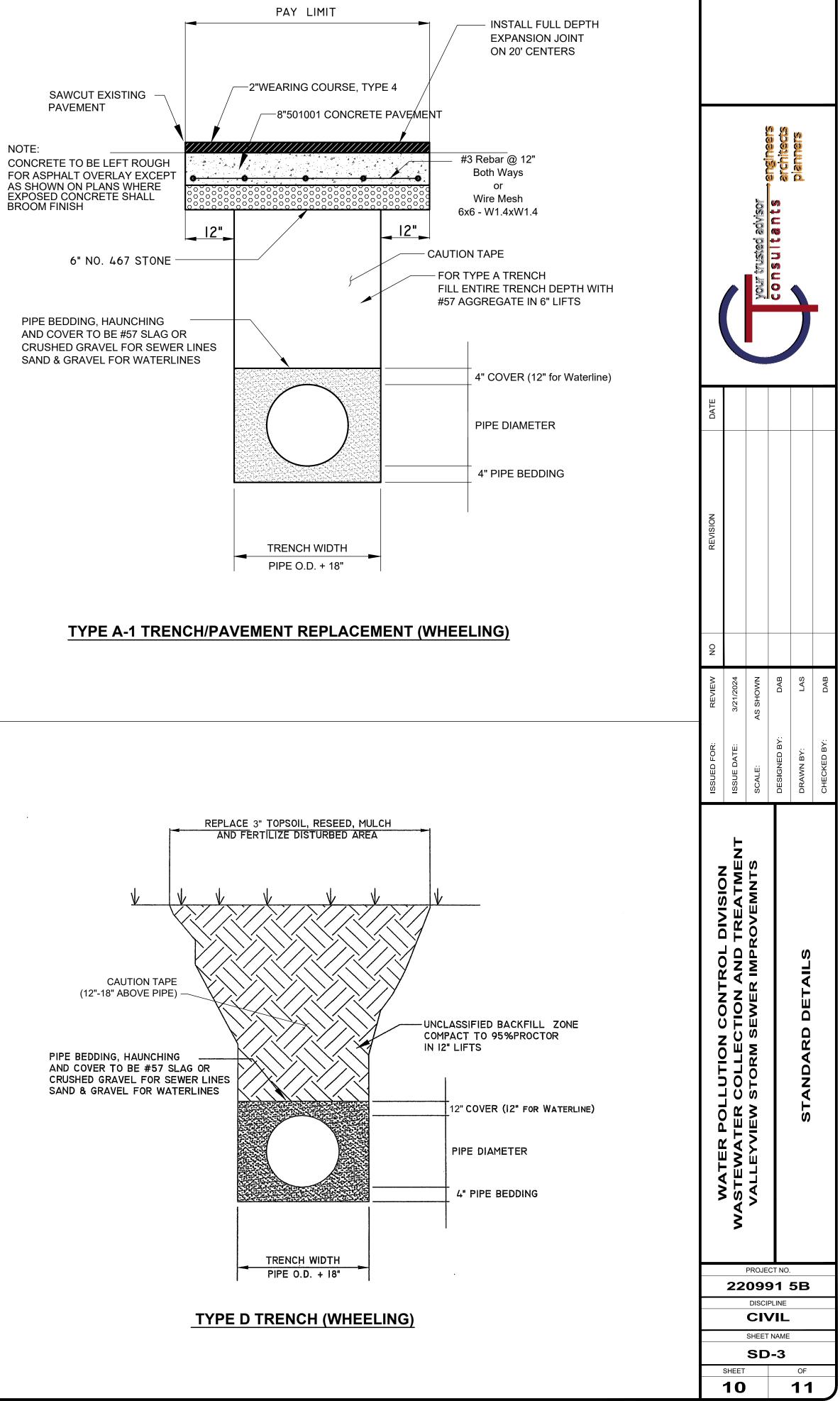
Cost of all reinforcing fabric and reinforcing bars shall be included in the unit price bid for "Class B Concrete".

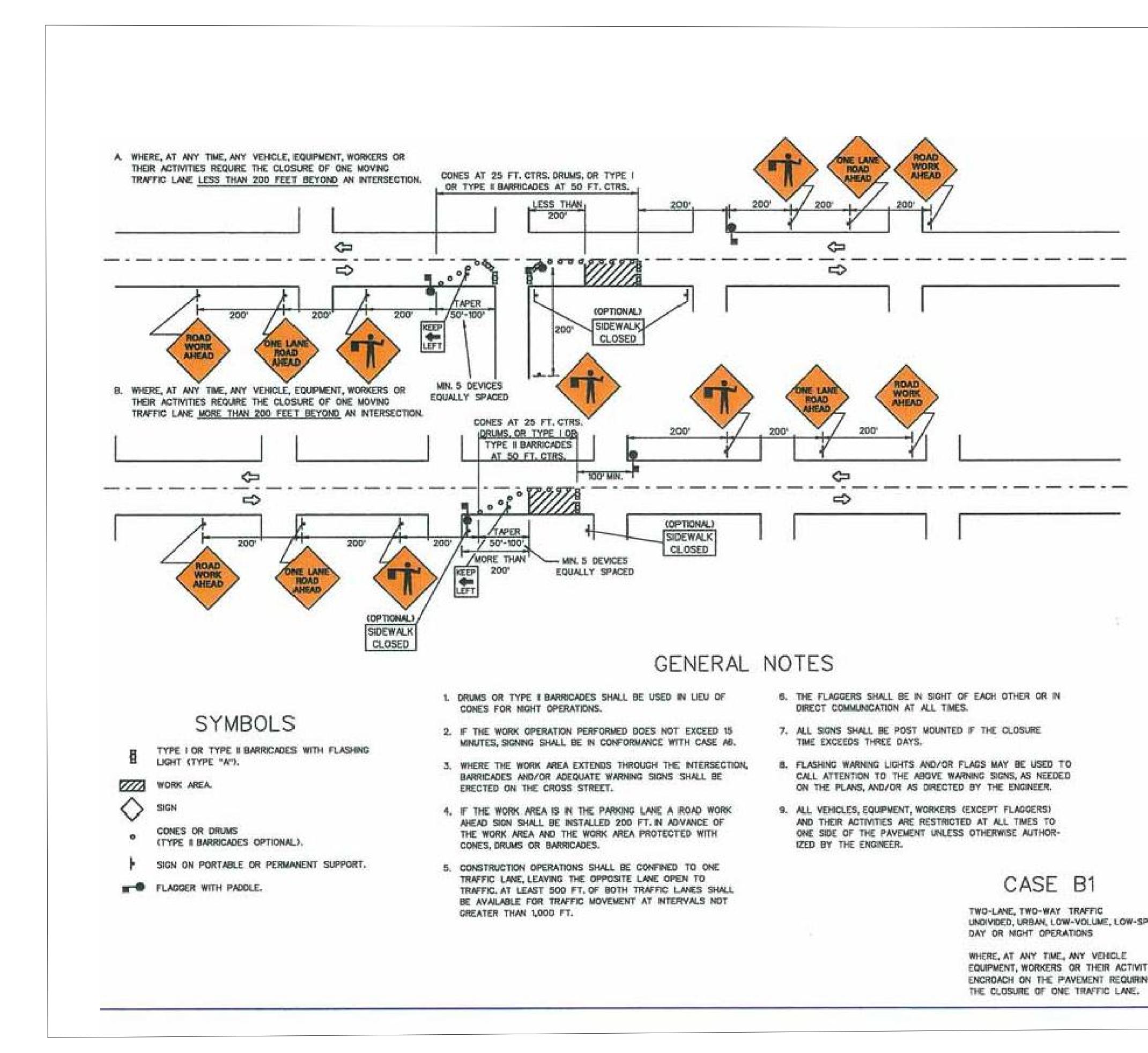


PIPE CULVERT HEADWALLS

STANDARD SHEET DR1







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UNDIVIDED, URBAN, LOW-VOLUME, LOW-SPEED

EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE PAVEMENT REQUIRING

NOTES:

- 1. DURING DAYTIME OPERATION, CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC.
- 3. ROADWAYS SHALL ONLY BE CLOSED ONE LANE AT A TIME. PROVIDE A SIGNED PEDESTRIAN DETOUR, ROADWAY CLOSED AHEAD SIGNS, AND PEDESTRIAN BARRICADES.
- 4. AT NO TIME SHALL THE ROADWAY BE CLOSED DURING DAYTIME OPERATION.
- 5. CONTRACTOR SHALL COORDINATE WITH INDIVIDUAL BUSINESSES TO MAINTAIN TRUCK AND SHIFT TRAFFIC.

your trusted advisor consultants architects planners						
DATE						
REVISION						
ON						
REVIEW	3/21/2024	AS SHOWN	DAB	LAS	DAB	
ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	
WATER POLLUTION CONTROL DIVISION WASTEWATER COLLECTION AND TREATMENT VALLEYVIEW STORM SEWER IMPROVEMNTS				MAINTENANCE OF TRAFFIC		
	PROJECT NO. 220991 5B DISCIPLINE					
		CIN SHEET MO	NAME			
MOT SHEET OF 11 11						