BANK STABILIZATION/GRADE CONTROL CITY OF MEMPHIS MEMPHIS, TENNESSEE

WOLF RIVER TRIBUTARY (WN071200.02) SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10)

CITY COUNCIL

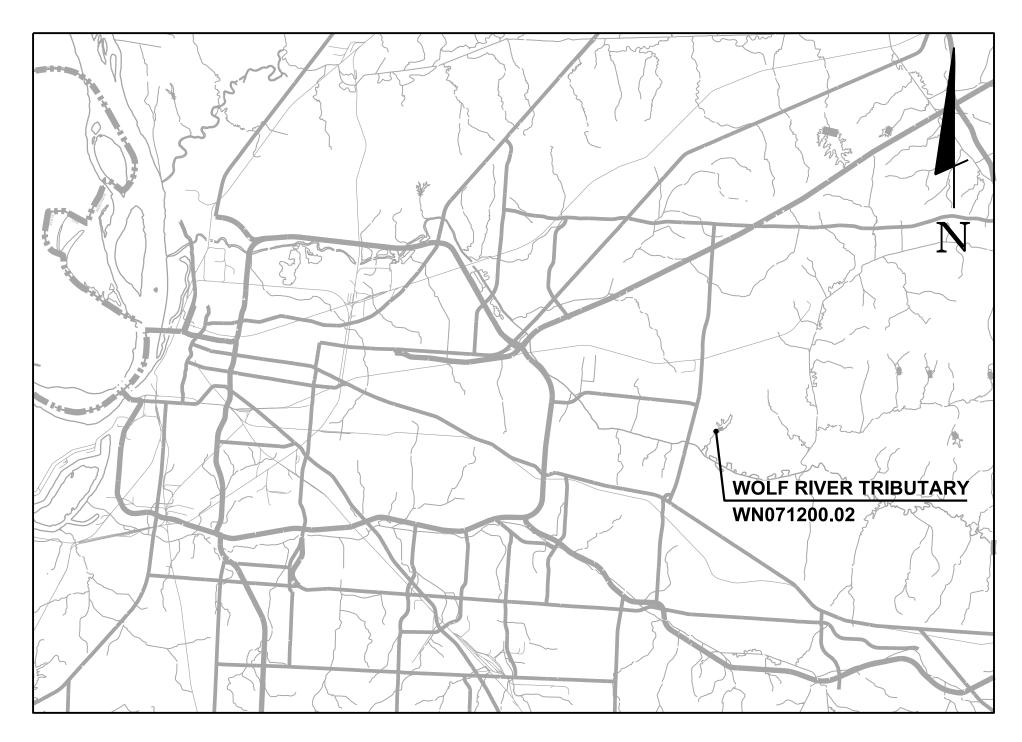
FRANK COLVETT JR, CHAIRMAN JAMITA SWEARENGEN, VICE CHAIRWOMAN RHONDA LOGAN, COUNCILWOMAN PATRICE J ROBINSON, COUNCILWOMAN WORTH MORGAN, COUNCILMAN EDMUND FORD SR, COUNCILMAN MICHALYN EASTER-THOMAS, COUNCILWOMAN JB SMILEY JR, COUNCILMAN CHEYENNE JOHNSON, COUNCILWOMAN MARTAVIUS JONES, COUNCILMAN CHASE CARLISLE, COUNCILMAN J FORD CANALE, COUNCILMAN DR JEFF WARREN, COUNCILMAN

CITY ENGINEER

MANNY BELEN, P.E.

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JIM STRICKLAND, MAYOR



LOCATION MAP

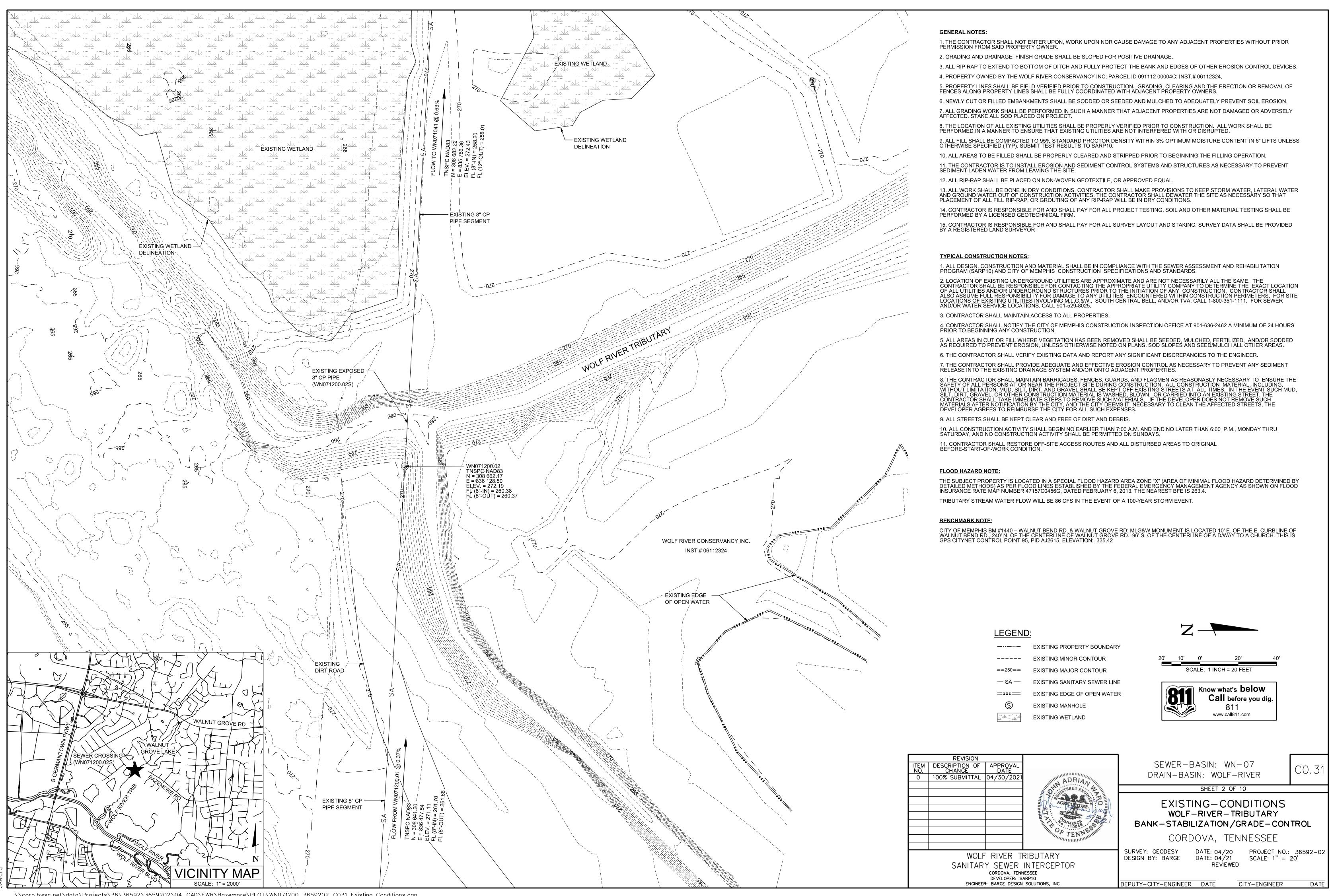
NOT TO SCALE

INDEX OF DRAWINGS

SHEET NO.

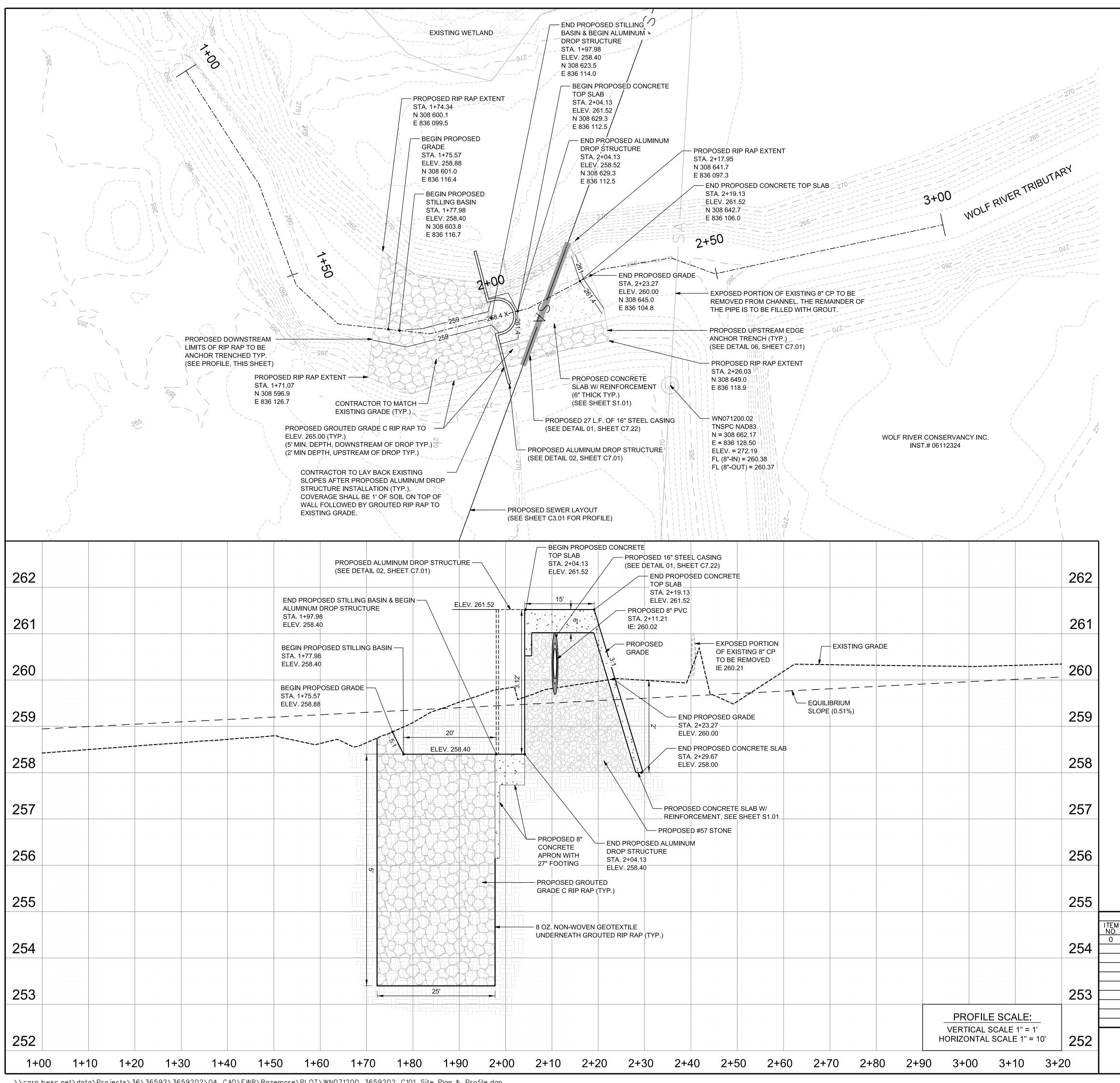
- DESCRIPTION
- COVER SHEET C0.01
- **EXISTING CONDITIONS** C0.31
- SITE PLAN AND PROFILE C1.01
- C2.41 **EROSION CONTROL PLAN PHASE I**
- **EROSION CONTROL PLAN PHASE II** C2.51
- UTILITY PLAN AND PROFILE C3.01
- **CIVIL DETAILS** C7.01
- C7.02 **CIVIL DETAILS**
- C7.21 EROSION CONTROL DETAILS
- **EROSION CONTROL DETAILS** C7.22





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GRADING AND DRAINAGE NOTES:

1. A MINIMUM OF 24-HOURS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT (901) 636-2462.

2. ALL NEWLY CUT OR FILLED AREAS, LACKING ADEQUATE VEGETATION, SHALL BE SEEDED, MULCHED, FERTILIZED AND/OR SODDED AS REQUIRED TO EFFECTIVELY CONTROL SOIL EROSION.

3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY COMPANIES WHICH MAINTAIN A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION OF PERIMETERS, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING THE WORK ON THE PROJECT. FOR SITE LOCATION OF EXISTING UNTER INFORMATION OF THE CONSTRUCTION PLANS OR NOT, DURING THE WORK ON THE PROJECT. FOR SITE LOCATION OF EXISTING UTILITIES INVOLVING MLG&W, SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, CALL 1-800-351-1111. FOR SEWER LOCATIONS CALL 901-529-8025.

4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.

5. ALL FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY WITHIN 3% OPTIMUM MOISTURE CONTENT IN 6" LIFTS UNLESS OTHERWISE SPECIFIED BY THE SOILS REPORT. SUBMIT TEST RESULTS TO SARP10. 6. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CITY OF MEMPHIS

STANDARD CONSTRUCTION SPECIFICATIONS.

7. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS. 8. VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE ENGINEER OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.

9. ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.

FLOOD HAZARD NOTE:

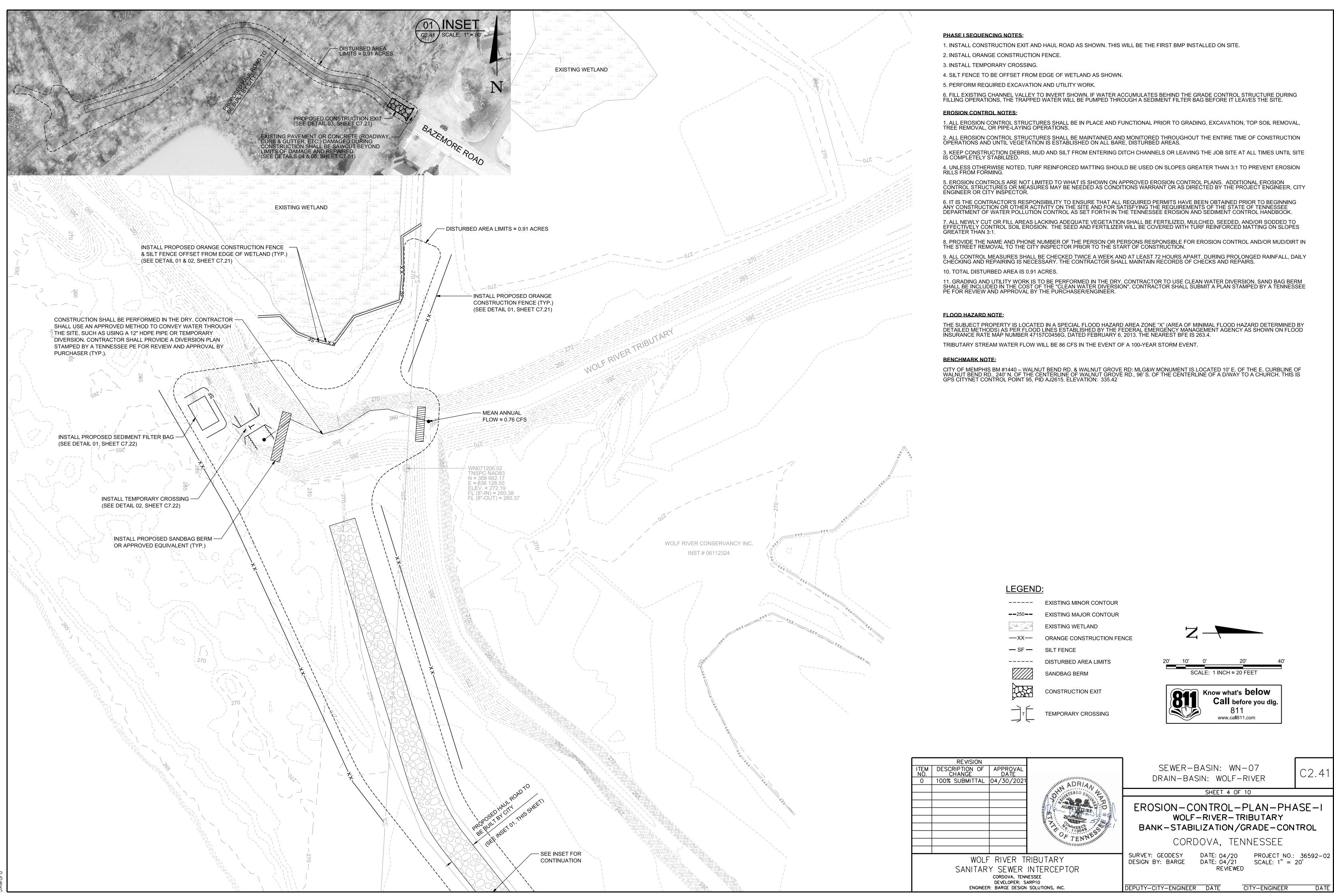
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "X" (AREA OF MINIMAL FLOOD HAZARD DETERMINED BY DETAILED METHODS) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0456G, DATED FEBRUARY 6, 2013. THE NEAREST BFE IS 263.4. TRIBUTARY STREAM WATER FLOW WILL BE 86 CFS IN THE EVENT OF A 100-YEAR STORM EVENT.

BENCHMARK NOTE:

CITY OF MEMPHIS BM #1440 – WALNUT BEND RD. & WALNUT GROVE RD: MLG&W MONUMENT IS LOCATED 10' E. OF THE E. CURBLINE OF WALNUT BEND RD., 240' N. OF THE CENTERLINE OF WALNUT GROVE RD., 96' S. OF THE CENTERLINE OF A D/WAY TO A CHURCH. THIS IS GPS CITYNET CONTROL POINT 95, PID AJ2615. ELEVATION: 335.42

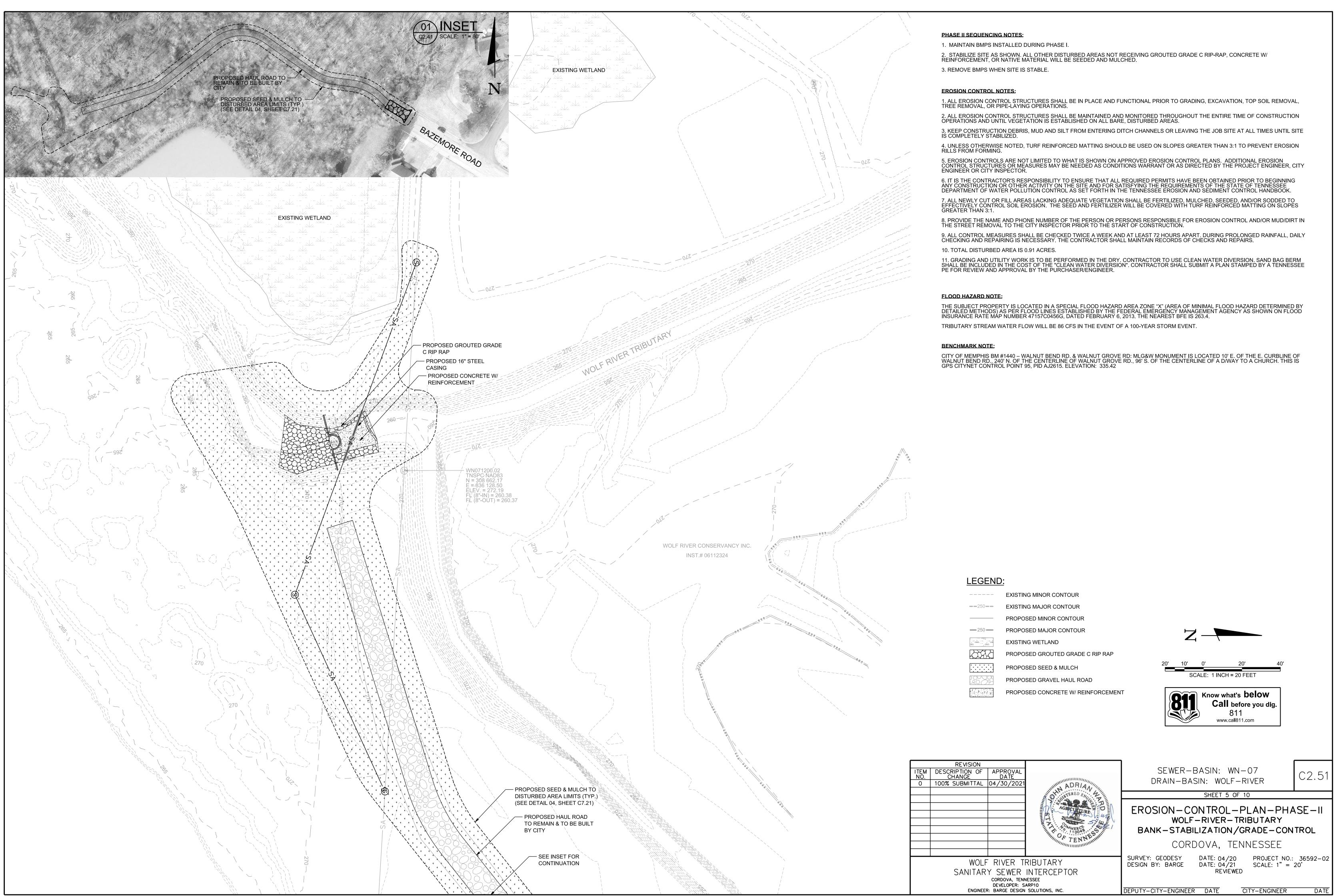
LEGEND	<u>):</u> EXISTING MINOR CONTOUR				
	EXISTING MAJOR CONTOUR				
— SA —	EXISTING SANITARY SEWER LINE				
S	EXISTING MANHOLE				
	EXISTING WETLAND				
S	PROPOSED MANHOLE				
<u> </u>	PROPOSED MINOR CONTOUR				
— 250 —	PROPOSED MAJOR CONTOUR				
	PROPOSED STREAM CENTERLINE	10' 5' 0' 10' 20'			
N E	COORDINATE	SCALE: 1 INCH = 10 FEET			
Keel	PROPOSED GROUTED GRADE C RIP RAP LIMITS	Know what's below			
	PROPOSED #57 STONE LIMITS	Call before you dig.			
a a a. 	PROPOSED CONCRETE W/ REINFORCEMENT LIMITS	811 www.call811.com			

				·
	REVISION DESCRIPTION OF CHANGE 100% SUBMITTAL	APPROVAL DATE 04/30/2021	ADRIA	SEWER-BASIN: WN-07 DRAIN-BASIN: WOLF-RIVER C1.01
			STERED EN Z	SHEET 3 OF 10
			AGRICULURE THE STATES	SITE-PLAN-AND-PROFILE WOLF-RIVER-TRIBUTARY BANK-STABILIZATION/GRADE-CONTROL CORDOVA, TENNESSEE
	WOLF RIVER TRIBUTARY SANITARY SEWER INTERCEPTOR cordova, tennessee developer: sarp10			SURVEY: GEODESY DATE: 04/20 PROJECT NO.: 36592–02 DESIGN BY: BARGE DATE: 04/21 SCALE: 1" = 10' REVIEWED
ENGINEER: BARGE DESIGN SOLUTIONS, INC.				DEPUTY-CITY-ENGINEER DATE CITY-ENGINEER DATE









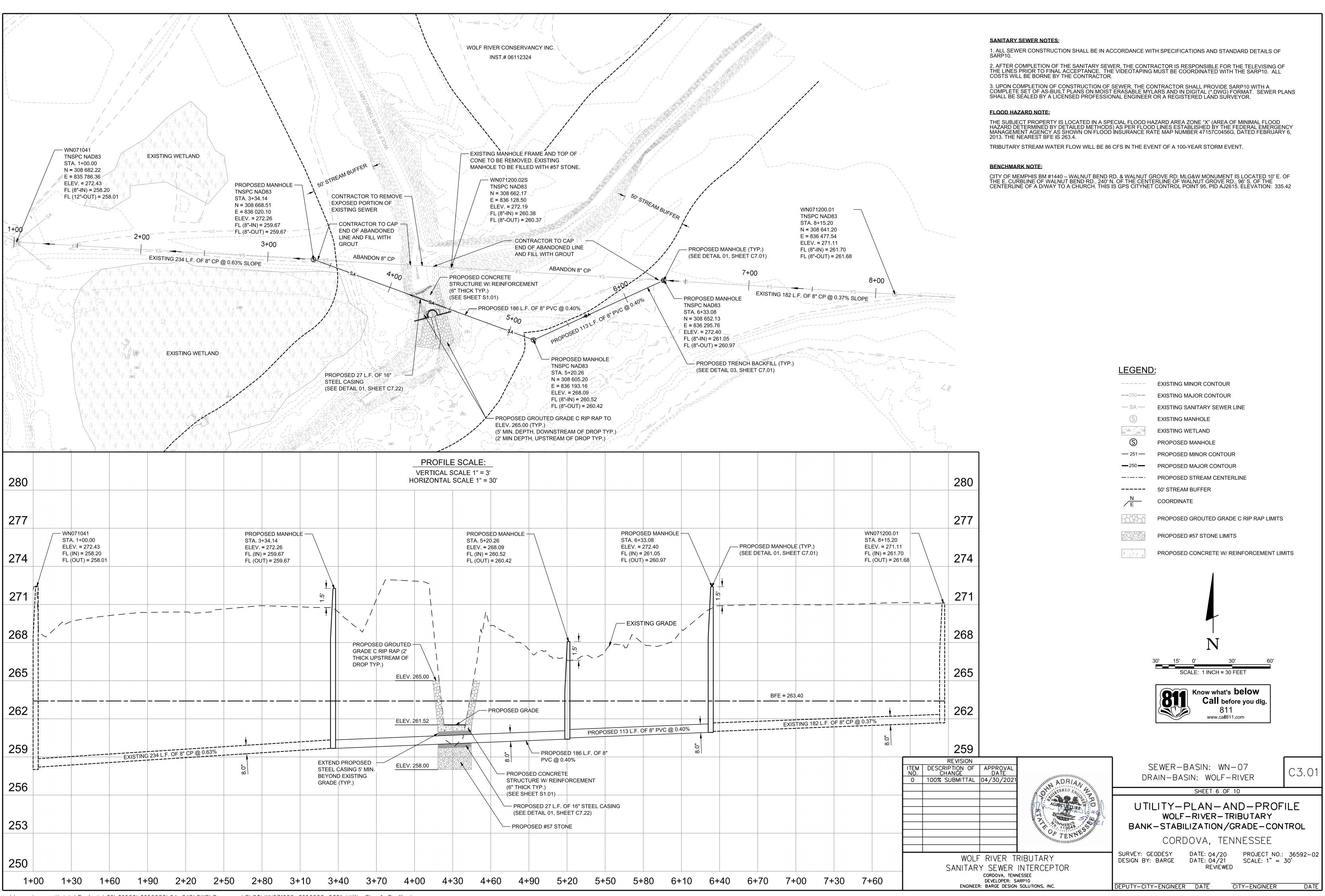
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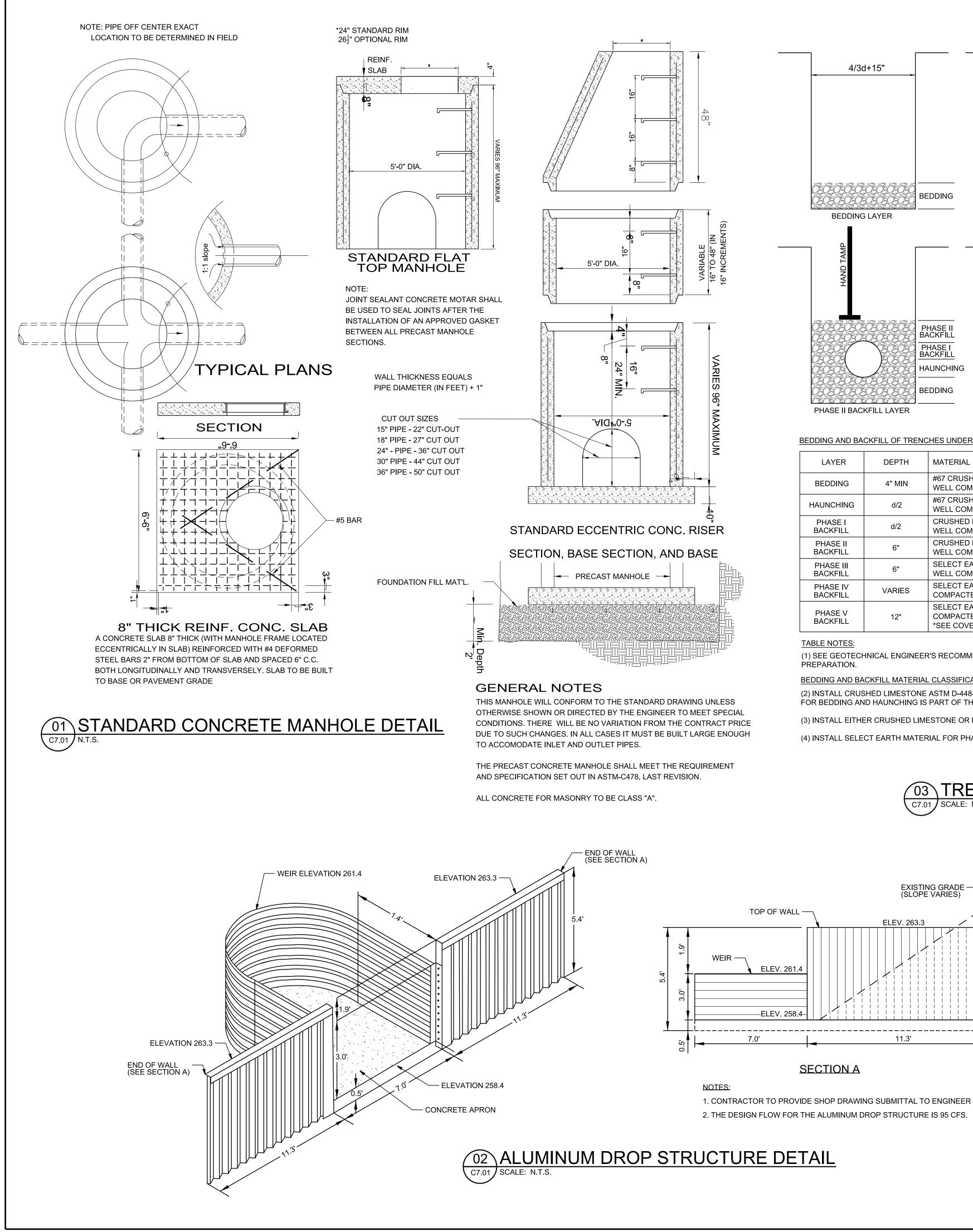
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
250	PROPOSED MAJOR CONTOUR
	EXISTING WETLAND
	PROPOSED GROUTED GRADE C RIP RAP
	PROPOSED SEED & MULCH
	PROPOSED GRAVEL HAUL ROAD
	PROPOSED CONCRETE W/ REINFORCEMENT



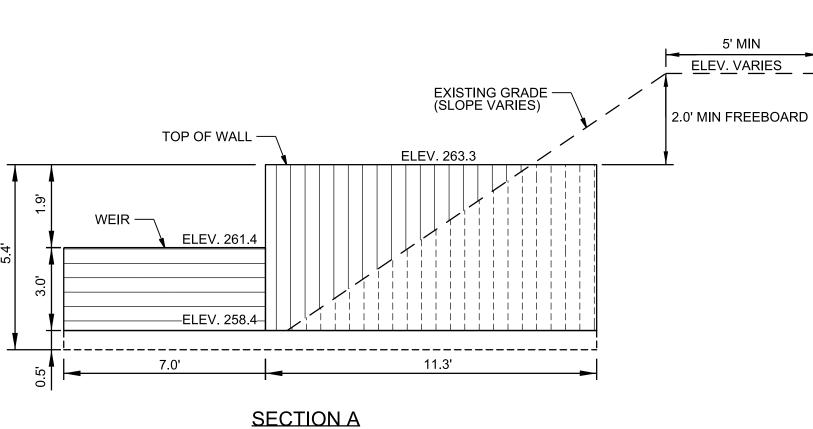


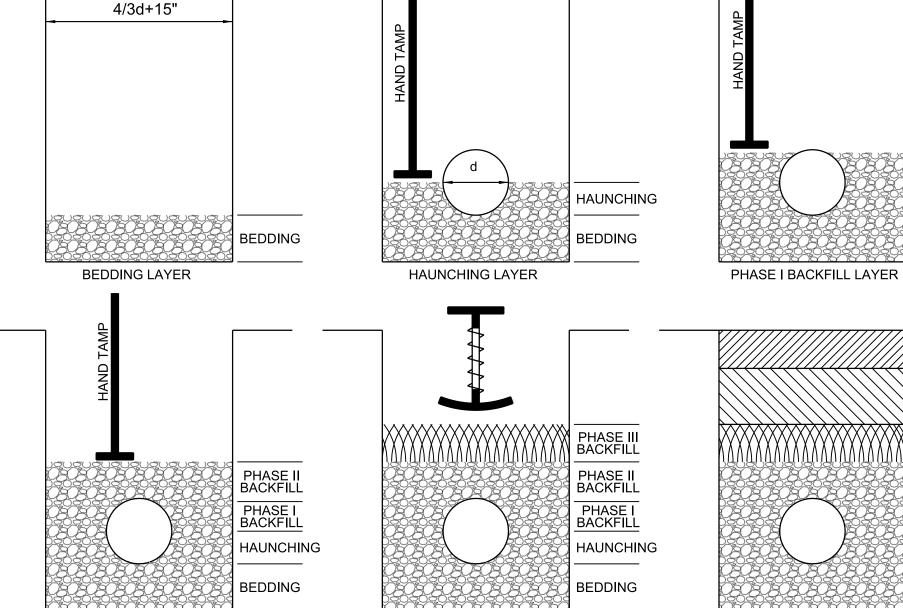


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2. THE DESIGN FLOW FOR THE ALUMINUM DROP STRUCTURE IS 95 CFS.





PHASE IV & V BACKFILL LAYER

BEDDING AND BACKFILL OF TRENCHES UNDER UNIMPROVED AREAS

PHASE II BACKFILL LAYER

TABLE NOTES:

PREPARATION.

LAYER	DEPTH	MATERIAL
BEDDING	4" MIN	#67 CRUSHED LIMESTONE. SEE NOTES (1)(2). WELL COMPACTED.
HAUNCHING	d/2	#67 CRUSHED LIMESTONE STONE TAMPED IN 6" MAXIMUM LAYERS. SEE NOTE (2). WELL COMPACTED W/SIDE TAMPER HAND TAMPER.
PHASE I BACKFILL	d/2	CRUSHED LIMESTONE OR RECYCLED CRUSHED CONCRETE TAMPED IN 6" MAXIMUM LAYERS. SEE WELL COMPACTED W/SIDE TAMPER HAND TAMPER.
PHASE II BACKFILL	6"	CRUSHED LIMESTONE OR RECYCLED CRUSHED CONCRETE . SEE NOTE (3). WELL COMPACTED W/HAND TAMPER.
PHASE III BACKFILL	6"	SELECT EARTH MATERIAL. SEE NOTE (4). WELL COMPACTED W/PNEUMATIC OR MECHANICAL TAMPER.
PHASE IV BACKFILL	VARIES	SELECT EARTH MATERIAL TAMPED IN 12" MAXIMUM LAYERS. SEE NOTE (4). COMPACTED TO 95% PER ASTM D698
PHASE V BACKFILL	12"	SELECT EARTH MATERIAL. SEE NOTE (4). COMPACTED TO 95% PER ASTM D698 *SEE COVER SEEDING MIXTURE (DETAIL 04, SHEET C7.21) FOR UPPER 2-4" OF SOIL FOR TOPSOIL,

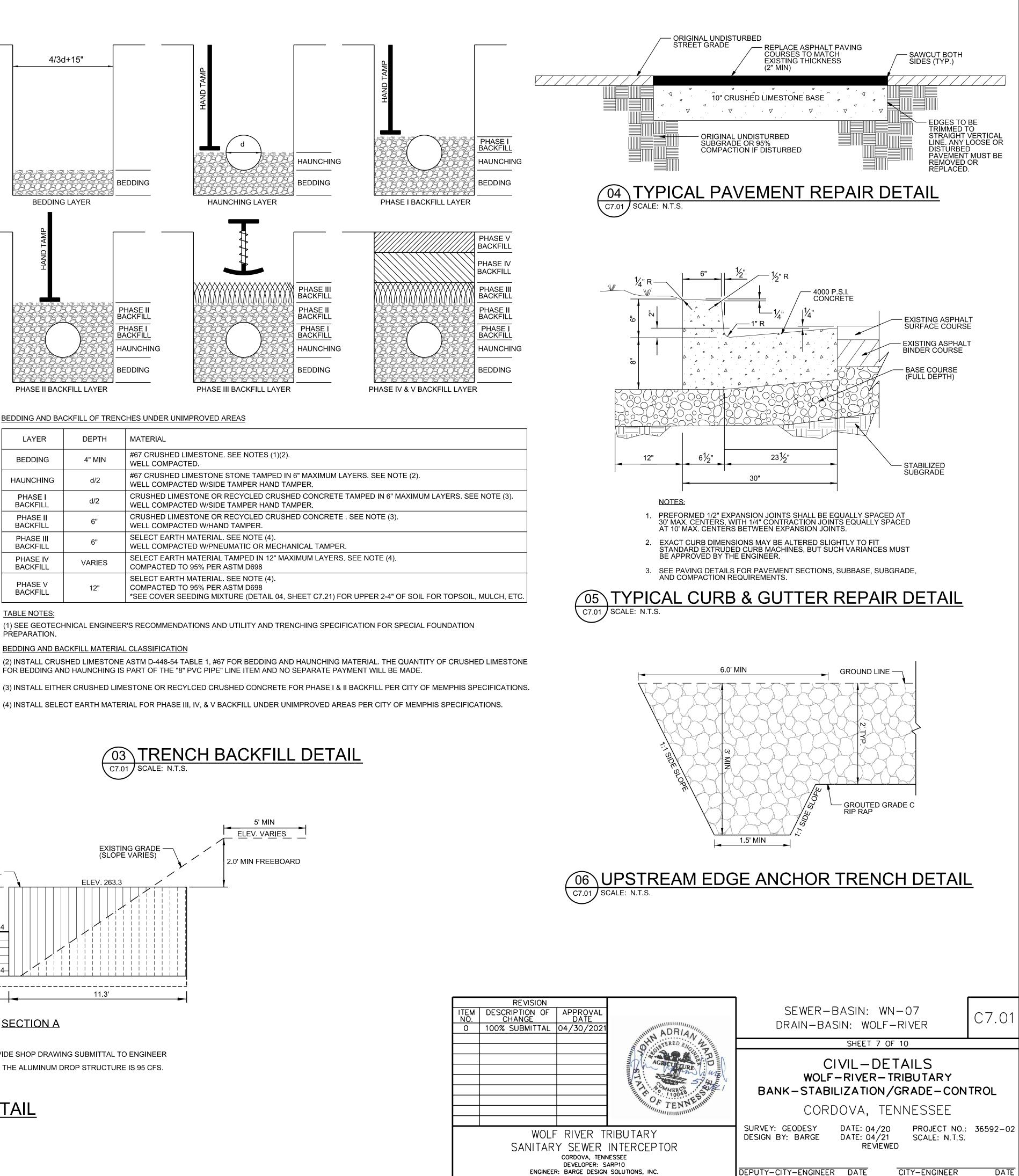
PHASE III BACKFILL LAYER

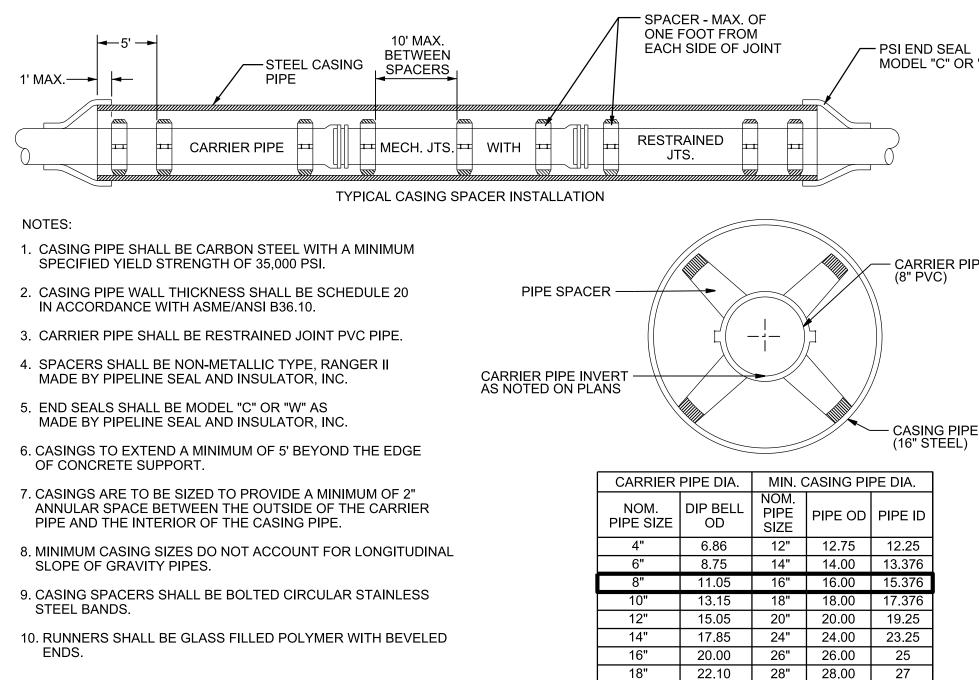
BEDDING AND BACKFILL MATERIAL CLASSIFICATION

FOR BEDDING AND HAUNCHING IS PART OF THE "8" PVC PIPE" LINE ITEM AND NO SEPARATE PAYMENT WILL BE MADE. (3) INSTALL EITHER CRUSHED LIMESTONE OR RECYLCED CRUSHED CONCRETE FOR PHASE I & II BACKFILL PER CITY OF MEMPHIS SPECIFICATIONS.

(4) INSTALL SELECT EARTH MATERIAL FOR PHASE III, IV, & V BACKFILL UNDER UNIMPROVED AREAS PER CITY OF MEMPHIS SPECIFICATIONS.

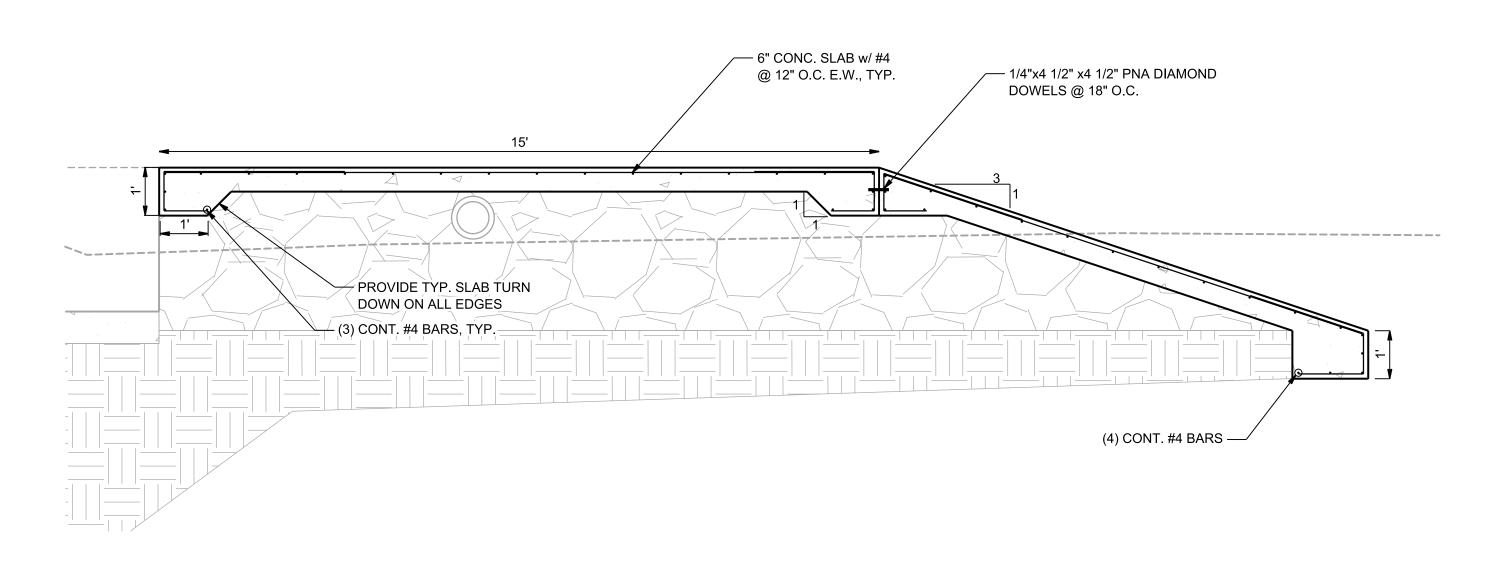
<u>O3</u> TRENCH BACKFILL DETAIL C7.01 SCALE: N.T.S.





NOTE: MINIMUM CASING PIPE WALL THICKNESS IS SCHEDULE 20.



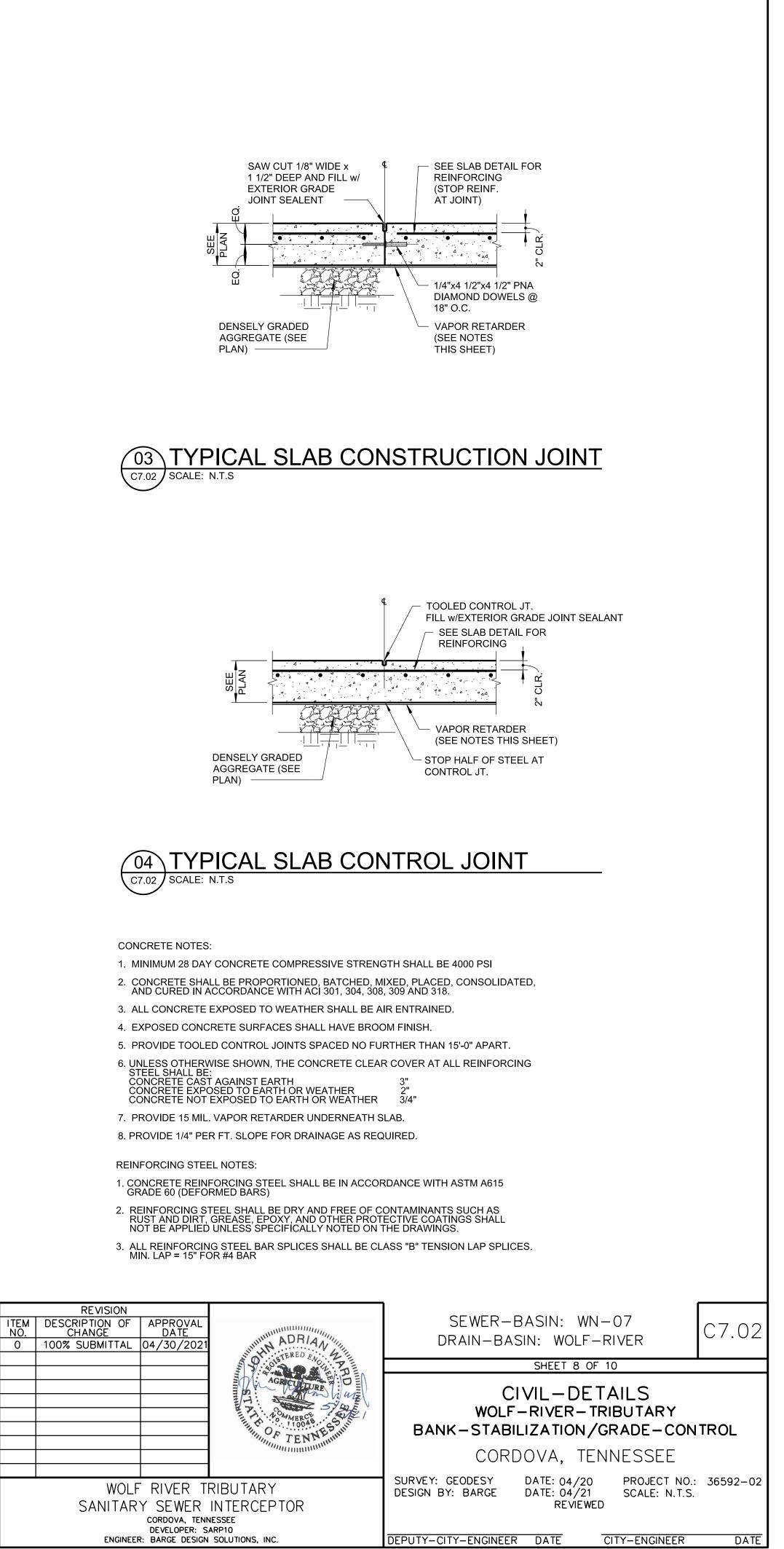


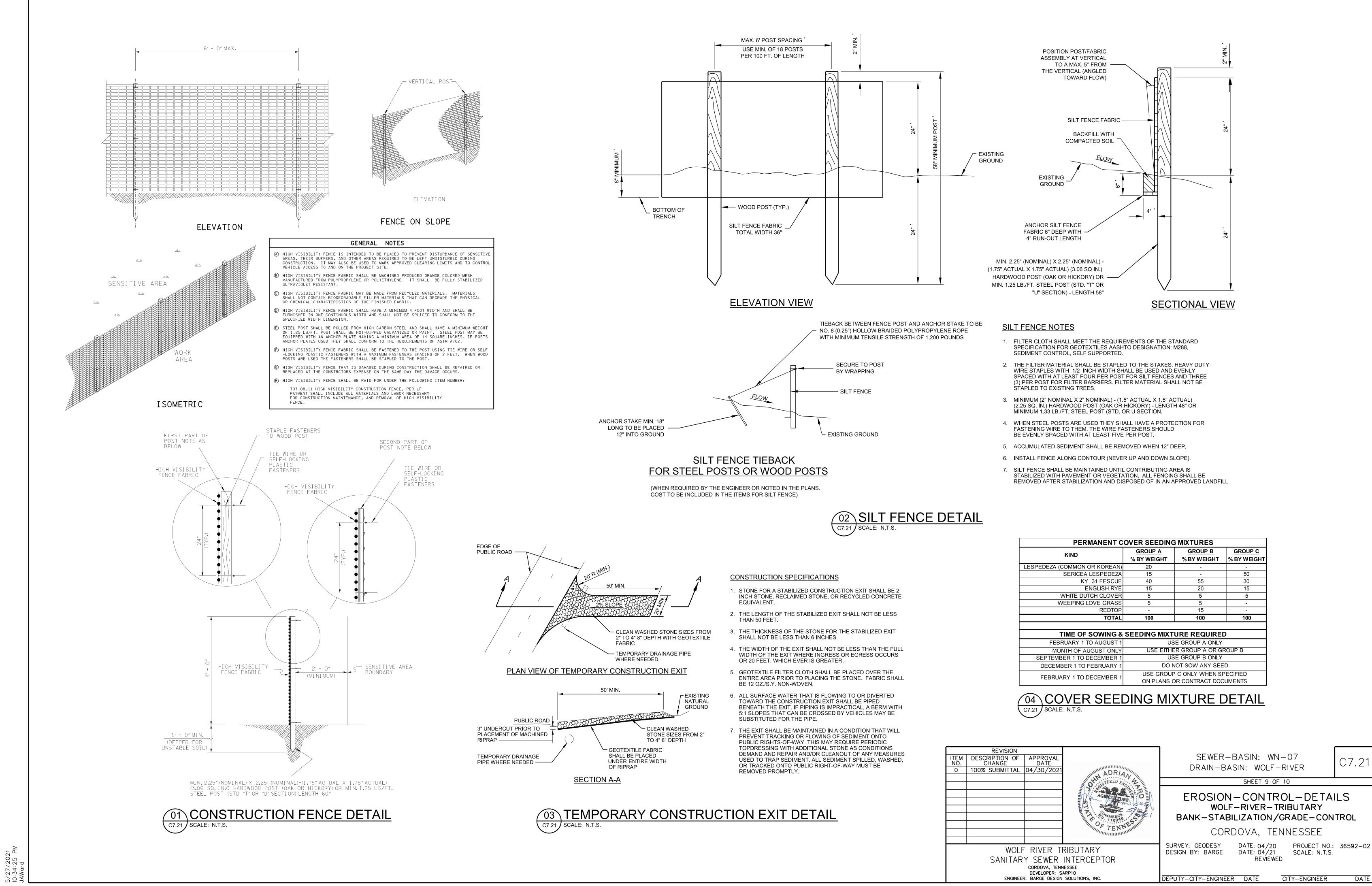


MODEL "C" OR "W"

- CARRIER PIPE (8" PVC)

- CASING PIPE (16" STEEL)





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