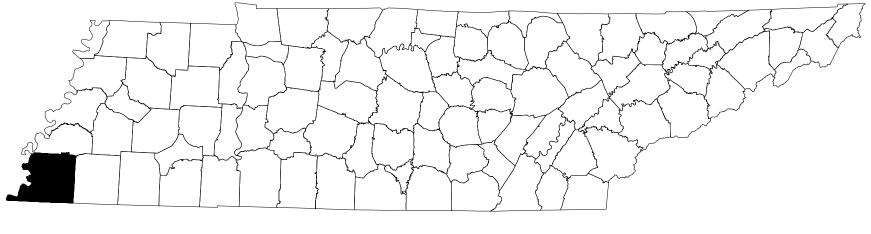
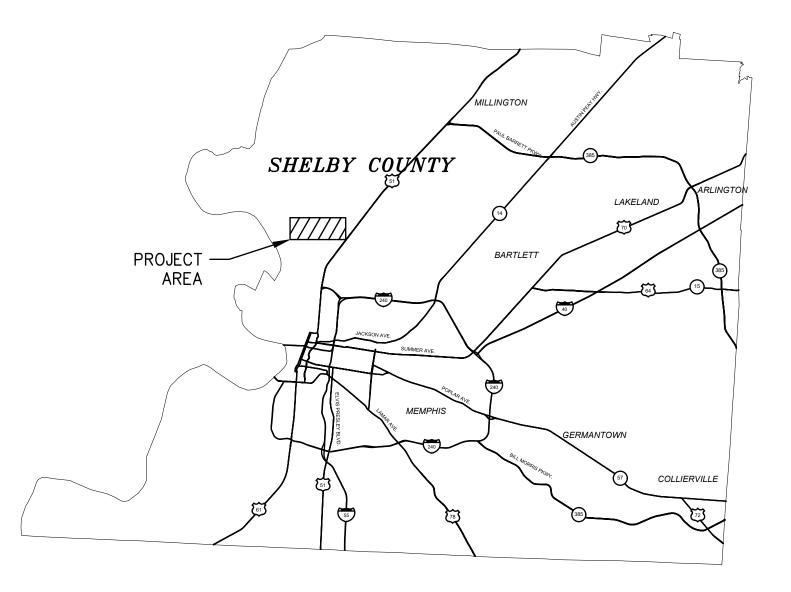
CITY OF MEMPHIS, TENNESSEE SEWER ASSESSMENT & REHABILITATION PROGRAM (SARP10) OLD LOOSAHATCHIE SANITARY SEWER INTERCEPTOR DIVERSION

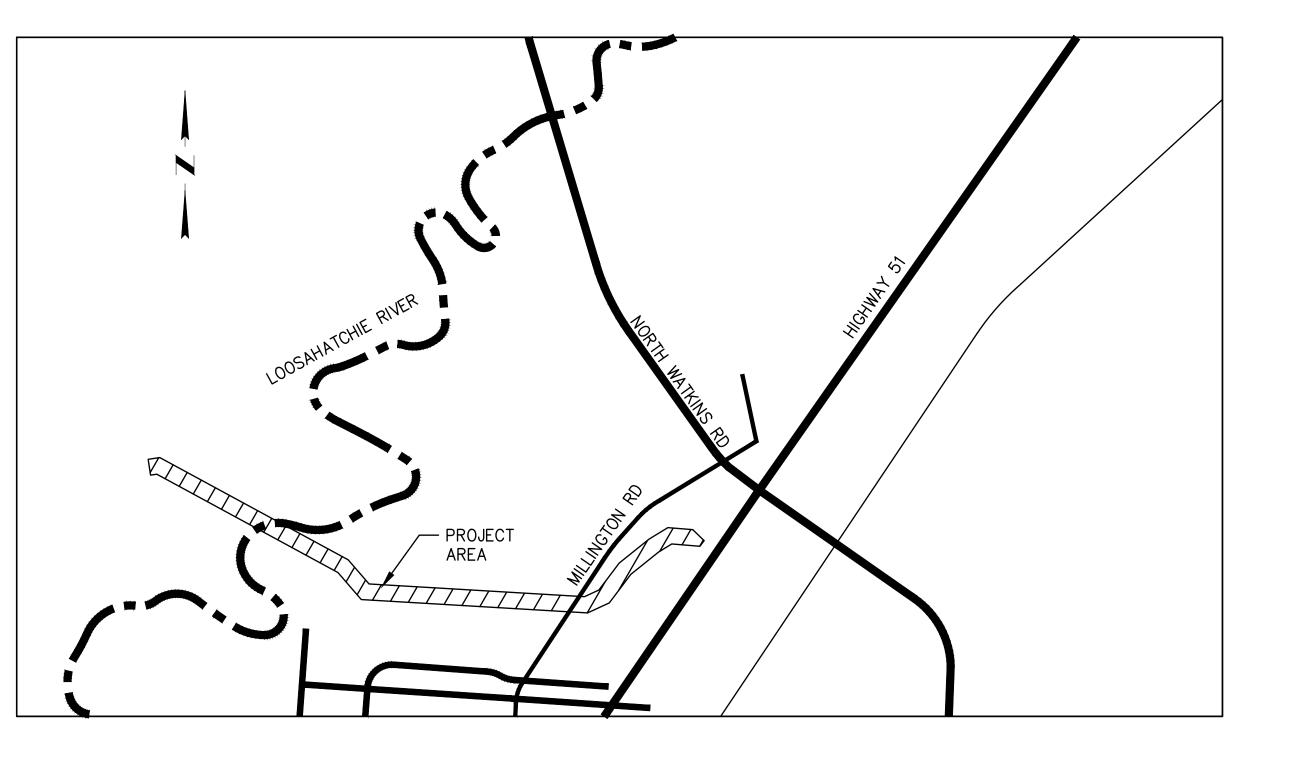




STATE OF TENNESSEE



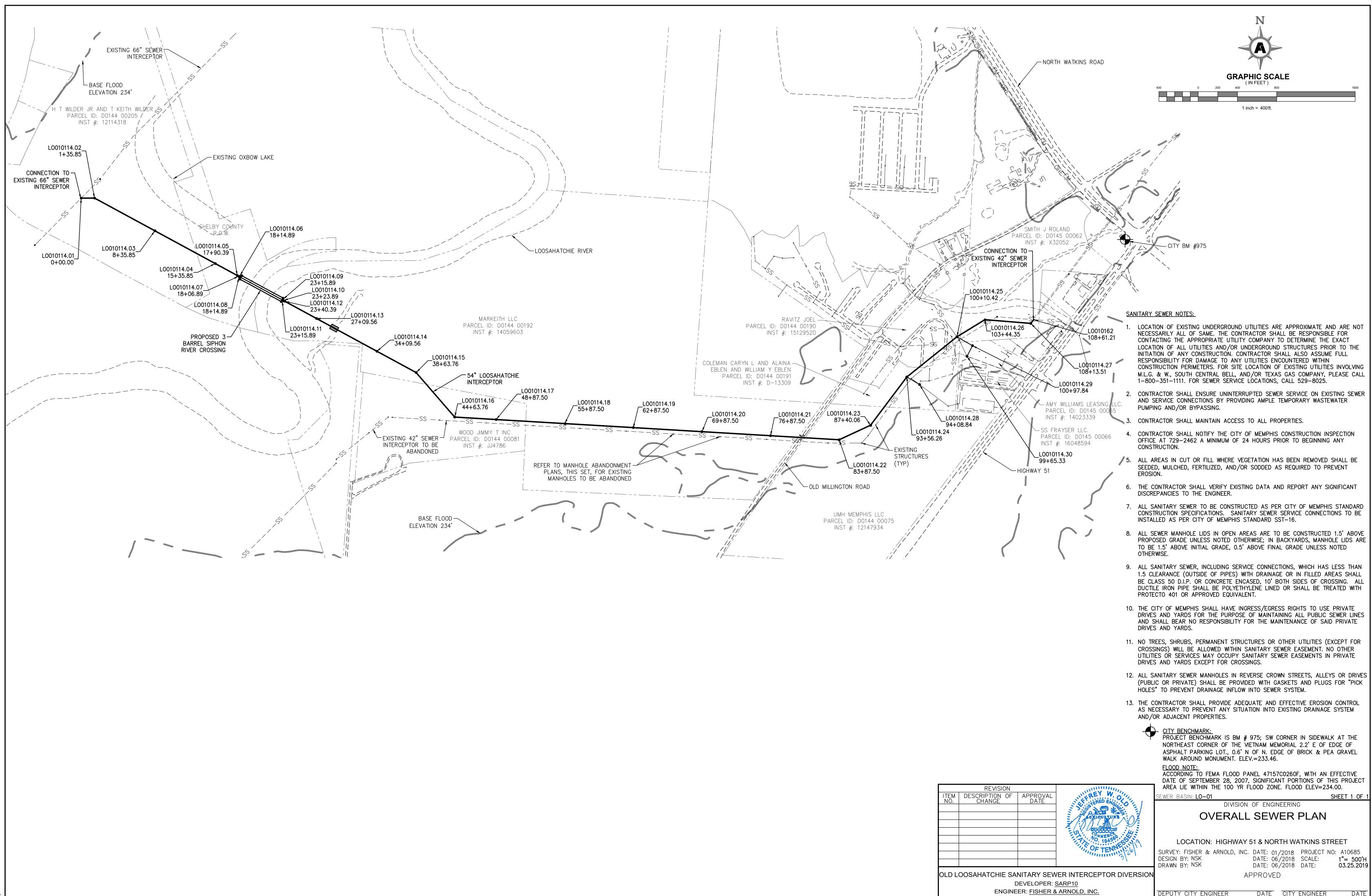
SARP10 PROJECT NO: DATE: 01/03/2019





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SANITARY SEWER NOTES:

- LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATION OF EXISTING UTILITIES INVOLVING M.L.G. & W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-529-8025.
- 2. CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- 3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- 4. CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT 729-2462 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- 5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
- 6. THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- 7. ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
- 8. ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE; IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.
- 9. ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5 CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
- 10. THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
- 11. NO TREES, SHRUBS, PERMANENT STRUCTURES OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
- 12. ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR "PICK HOLES" TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
- 13. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SITUATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

TUNNELING, BORING, AND JACKING NOTES:

- 1. SEWER PIPE WILL BE CONSTRUCTED BY TUNNELING, BORING, OR JACKING, ONLY AT THOSE LOCATIONS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. CARRIER PIPE FOR THESE APPLICATIONS WILL BE OF THE TYPE SPECIFIED IN THE PLANS AND SPECIFICATIONS. GRADE AND ALIGNMENT WILL BE MAINTAINED THROUGH ALL LINER PIPES. THE CONTRACTOR WILL SUBMIT SHOP DRAWINGS DETAILING THE METHOD, EQUIPMENT, AND MATERIAL TO BE USED FOR TUNNELING, BORING, AND JACKING OPERATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL. THE APPROVAL BY THE ENGINEER OF ANY DRAWINGS OR PLANS WILL NOT IN ANY WAY BE DEEMED TO RELEASE THE CONTRACTOR FROM FULL RESPONSIBILITY FOR COMPLETE AND ACCURATE PERFORMANCE OF THE WORK ACCORDING TO THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- 2. WHEN TUNNELING, BORING, OR JACKING IS REQUIRED UNDER RAILROADS, HIGHWAYS, STREETS, OR OTHER FACILITIES, CONSTRUCTION WILL NOT INTERFERE WITH OPERATION OF THE RAILROAD, STREET, HIGHWAY, OR OTHER FACILITY AND WILL NOT WEAKEN THE OR DAMAGE ANY EMBANKMENT OR STRUCTURE. NO WATER SHALL BE INTRODUCED INTO ANY TUNNELING, BORING, OR JACKING EXCAVATION THAT LIES WITHIN CITY, STATE, OR RAILROAD RIGHT-OF-WAY. A BORING THAT USES A BENTONITE SLURRY MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER AND THE OWNER OF THE RIGHT-OF-WAY.
- 3. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTION OF UTILITIES AND SEWERS AGAINST DAMAGE BY HIS WORK. IF ANY UTILITY ABOVE OR NEAR THE TUNNEL IS ENDANGERED OR HAS BEEN DAMAGED BECAUSE OF THE CONSTRUCTION OPERATIONS, THE UTILITY OWNER WILL BE NOTIFIED IMMEDIATELY AND WILL WILL BE GIVEN ACCESS TO THE AREA TO CARRY OUT ALL NECESSARY REPAIRS TO SUCH UTILITIES. IF ANY SEWERS ARE DAMAGED, IT WILL BE THE REASONABILITY OF THE CONTRACTOR TO MAKE THE NECESSARY REPAIRS. IF ANY PUBLIC OR PRIVATE PROPERTY IS ENDANGERED OR HAS BEEN DAMAGED DUE TO TUNNELING, BORING, OR JACKING OPERATIONS. IT WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSES. ALL COST AND EXPENSE TO THE CONTRACTOR THE BID PRICES FOR THE COMPLETED SEWER INSTALLATION.
- 4. ACCESS PITS WILL BE OF SUFFICIENT SIZE TO PROVIDE AMPLE WORKING SPACE FOR THE JACKING OR BORING EQUIPMENT, REACTION BLOCKS, BRACING, LINER PLATES, SPOIL REMOVAL, AND 2 SECTIONS OF PIPE, PROVISIONS WILL BE MADE FOR THE ERECTION OF GUIDE RAILS IN THE BOTTOM OF THE PIT WHERE APPLICABLE. IF DRAINAGE IS TO BE DISCHARGED FROM THE JACKING PIT, A COLLECTION SUMP WILL BE PROVIDED. WHEREVER END TRENCHES ARE CUT IN THE SIDES OF THE EMBANKMENT OR BEYOND IT, SUCH WORK WILL BE SHEETED SECURELY AND BRACED SATISFACTORILY TO PREVENT EARTH CAVING.
- 5. THE CONTRACTOR WILL FURNISH AND OPERATE ALL NECESSARY PUMPING EQUIPMENT OF AMPLE CAPACITY AND ARRANGE TO KEEP TUNNELS AND SHAFTS FREE OF WATER DURING CONSTRUCTION AND TO DISPOSE OF WATER SATISFACTORILY. DURING PLACEMENT OF CONCRETE, DRAINAGE AND PUMPING WILL BE ARRANGED SO CONCRETE IS PLACED IN DRY CONDITIONS. NO WATER WILL FLOW OVER THE CONCRETE UNTIL IT HAS SET AND WILL NOT BE DAMAGED.

						SEW	VER PIPE DAT	4										SEWER STF	RUCTURE DATA			
	_				DESIGN INFO)								AS-BUILT				DESIGN IN	FO		A	S-BUILT
PIPE NO.	FROM STR.	STR STATION	INVERT	TO STR.	STR STATION INVERT	PIPE LENGT	TH PIPE DIA. (IN)	MAT'L	SLOPE ARE (%) (AC				OM TO TR. STR.	PIPE LENGTH (FT)	SLOPE Q (%) (CF		STR STATION	DESCRIPTION	ТҮРЕ	BASE DIA. (IN)	AREA QD (AC.) (CFS) RI	M ELEV.
LO010114.02 S	LO010114.02	1+35.85	195.70	LO010114.01	0+00.00 195.58	159.90	54	FRP	0.08	60.80	60.00	3.30				LO010114.01	0+00.00	SPECIAL STRUCTURE - WATER TIGHT	CAST IN PLACE DOGHOUSE	18.5'X23.75'	60.08	
LO010114.03 S	LO010114.03	8+35.85	196.19	LO010114.02	1+35.85 195.70	700.00	54	FRP	0.07	60.80	60.00	3.30				LO010114.02	1+35.85	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.04 S	LO010114.04	15+35.85	196.68	LO010114.03	8+35.85 196.19	700.00	54	FRP	0.07	60.80	60.00	3.30				LO010114.03	8+35.85	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.05 S	LO010114.05	17+90.39	196.86	LO010114.04	15+35.85 196.68	254.50	54	FRP	0.07	60.80	60.00	3.30				LO010114.04	15+35.85	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.06 S	LO010114.06	18+14.89	196.98	LO010114.05	17+90.39 196.96	26.00	36	HDPE (DR11)	0.19	22.50	21.39	4.60				LO010114.05	17+90.39	SIPHON STRUCTURE 1 - WATER TIGHT	CONC. CAST IN PLACE	15'X17'	60.08	
LO010114.07 S	LO010114.07	18+06.89	196.98	LO010114.05	17+90.39 196.96	16.00	22	HDPE (DR11)	0.40	4.95	6.13	3.60				LO010114.06	18+14.89	DS 36" SBAS - WATER TIGHT	PRE-CAST	72"	22.5	
LO010114.08 S	LO010114.08	18+14.89	196.98	LO010114.05	17+90.39 196.96	26.00	34	HDPE (DR11)	0.19	17.15	18.5	4.50				LO010114.07	18+06.89	DS 22" SBAS - WATER TIGHT	PRE-CAST	60"	4.95	
LO010114.09 S	LO010114.09	23+15.89	198.45	LO010114.06	18+14.89 196.98	500.00	36	HDPE (DR11)	N/A	22.50	21.39	4.60				LO010114.08	18+14.89	DS 34" SBAS - WATER TIGHT	PRE-CAST	72"	17.15	
LO010114.10 S	LO010114.10	23+23.89	198.45	LO010114.07	18+06.89 196.98	500.00	22	HDPE (DR11)	N/A	4.95	6.13	3.60				LO010114.09	23+15.89	US 36" SBAS - WATER TIGHT	PRE-CAST	72"	22.5	
LO010114.11 S	LO010114.11	23+15.89	198.45	LO010114.08	18+14.89 196.98	500.00	34	HDPE (DR11)	N/A	17.15	18.5	4.50				LO010114.10	23+23.89	US 22" SBAS - WATER TIGHT	PRE-CAST	60"	4.95	
LO010114.12A S	LO010114.12	23+40.39	198.48	LO010114.09	23+15.89 198.45	26.00	36	HDPE (DR11)	0.19	22.50	21.39	4.60				LO010114.11	23+15.89	US 34" SBAS - WATER TIGHT	PRE-CAST	72"	17.15	
LO010114.12B S	LO010114.12	23+40.39	198.48	LO010114.10	23+23.89 198.45	16.00	22	HDPE (DR11)	0.40	4.95	6.13	3.60				LO010114.12	23+40.39	SIPHON STRUCTURE 2 - WATER TIGHT	CONC. CAST IN PLACE	15'X17'	60.08	
LO010114.12C S	LO010114.12	23+40.39	198.48	LO010114.11	23+15.89 198.45	26.00	34	HDPE (DR11)	0.19	17.15	18.5	4.50				LO010114.13	27+09.56	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.13 S	LO010114.13	27+09.56	198.84	LO010114.12	23+40.39 198.48	369.20	54	FRP	0.07	60.80	60.00	3.30				LO010114.14	34+09.56	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.14 S	LO010114.14	34+09.56	199.19	LO010114.13	27+09.56 198.84	700.00	54	FRP	0.05	60.80	47.20	2.80				LO010114.15	38+63.76	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.15 S	LO010114.15	38+63.76	199.42	LO010114.14	34+09.56 199.19	454.20	54	FRP	0.05	60.80	47.20	2.80				LO010114.16	44+63.76	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.16 S	LO010114.16	44+63.76	199.72	LO010114.15	38+63.76 199.42	600.00	54	FRP	0.05	60.80		2.80				LO010114.17	48+87.50	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.17 S	LO010114.17	48+87.50	199.93	LO010114.16	44+63.76 199.72	423.70	54	FRP	0.05	60.80	47.20	2.80				LO010114.18	55+87.50	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.18 S	LO010114.18	55+87.50	200.28	LO010114.17	48+87.50 199.93	700.00	54	FRP	0.05	60.80	+ +	2.80				LO010114.19	62+87.50	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
	LO010114.19		200.63				54	FRP	0.05		47.20					LO010114.20	69+87.50	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.20 S	LO010114.20		200.98	LO010114.29			54	FRP	0.05		47.20					LO010114.21	76+87.50	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.21 S	LO010114.21	76+87.50	201.33	LO010114.20			54	FRP	0.05		47.20					LO010114.22	83+87.50	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.22 S	LO010114.22	83+87.50	201.68	LO010114.21			54	FRP	0.05		47.20					LO010114.23	87+40.06	WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE	60.08	
LO010114.23 S		87+40.06	201.86	LO010114.22			54	FRP	0.05		47.20					LO010114.24	93+56.26	WATER TIGHT	PRE-CAST	96"	60.08	
LO010114.24 S	LO010114.24	93+56.26	202.17	LO010114.23			54	FRP	0.05	60.80						L0010114.25	100+10.42	WATER TIGHT	PRE-CAST	96"	60.08	SIDEWALK AT THE NORTHEAST CORNER OF THE VIETNAM
LO010114.25 S	LO010114.25	100+10.42	202.50	LO010114.24			54	FRP	0.05		47.20					LO010114.26	103+44.35	WATER TIGHT	GFRP MORTAR TEE W/ RISER	96"	60.08	MEMORIAL 2.2' E OF EDGE OF ASPHALT PARKING LOT., 0.6' N OF N. EDGE OF BRICK & PEA GRAVEL WALK
LO010114.26 S	LO010114.26	+ +	202.67	LO010114.25			54	FRP	0.05		47.20					LO010114.27	108+13.51	WATER TIGHT	PRE-CAST	96"	60.08	AROUND MONUMENT. ELEV.=233.46.
LO010114.27 S	LO010114.27 LO010162	108+13.51 108+85.23	202.90	LO010114.26			54 42	FRP FRP	0.05		47.20					LO010114.28	94+08.84	WATER TIGHT	PRE-CAST	48"	N/A	FLOOD NOTE: ACCORDING TO FEMA FLOOD PANEL 47157C0260F, WITH
LO010162 S	LO010162	94+08.84	203.90 217.50	LO010114.27 LO010114.24			10	PVC	0.07	N/A	47.20 2.20	4.00				LO010114.29	100+97.84 99+65.33	WATER TIGHT WATER TIGHT	PRE-CAST PRE-CAST	48	N/A	AN EFFECTIVE DATE OF SEPTEMBER 28, 2007, SIGNIFICANT PORTIONS OF THIS PROJECT AREA LIE
LO010114.28 S	LO010114.28 LO010114.29	100+97.84	217.30	LO010114.24			10	PVC PVC	1.00	N/A N/A		4.00		+ +		LO010114.30	99+03.55	WATER HIGHT	PRE-CAST	40	N/A	WITHIN THE 100 YR FLOOD ZONE. FLOOD ELEV=234.00.
LO010114.29 S		+ +						-	+ +	N/A N/A									REVISION		EY W.	
LO010114.30 S		99+65.33	218.14	10010114.29	100+97.84 216.92	122.50	10	PVC	1.00	N/A	2.20	4.00							M DESCRIPTION OF APPROVAI		RED EN	SEWER BASIN: LO-01 SHEET 1 OF 1 DIVISION OF ENGINEERING
																						NOTES AND TABLES
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																					WNERCE HU	
																				- 47	0 10450 55 19	LOCATION: HIGHWAY 51 & NORTH WATKINS STREET
																				"""	FTENNE 26	SURVEY: FISHER & ARNOLD, INC.DATE: 01/2018PROJECT NO: A10685DESIGN BY: NSKDATE: 06/2018SCALE:1"= 100'H
																					~ \	DRAWN BY: NSK DATE: 06/2018 DATE: 03.25.2019
																		OLD	LOOSAHATCHIE SANITARY SE		EPTOR DIVERSION	APPROVED
																			ENGINEER: <u>FISHER</u>	α arnuld, ing	<u>.</u>	DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE
																						PLAN SET SHEET: 3 OF 54

GENERAL NOTES

EROSION CONTROL NOTES:

- 1. CONSTRUCTION ENTRANCES (TO OFFICE OR LAY DOWN AREA, AND TO WORK AREAS) TO BE A MINIMUM 6" DEPTH T.D.O.T. NO. 1 OR NO. 2 STONE.
- PLANS. SEE DETAILS FOR MORE INFORMATION. 3. ALL STOCK PILE AREAS TO BE PROTECTED BY A COMBINATION OF WATTLES AND SILT FENCE.

2. INSTALL WATTLES OR SILT FENCE AS DICTATED ON THE EROSION CONTROL

- 4. INSTALL INLET PROTECTION DEVICES AT STORM SEWER INLETS PRIOR TO CONSTRUCTION. SEE PLANS FOR LOCATIONS.
- 5. ALL NEWLY CUT OR FILL AREAS LACKING ADEQUATE VEGETATION SHALL BE FERTILIZED, MULCHED, SEEDED, AND/OR SODDED TO EFFECTIVELY CONTROL SOIL EROSION.
- 6. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT SITE.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SOIL EROSION CONTROL MEASURES AS NOTED ON THE PLANS AND AS REQUESTED BY THE OWNER DURING CONSTRUCTION, AND AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SATISFYING THE REQUIREMENTS OF THE STATE OF TENNESSEE DEPARTMENT OF WATER POLLUTION CONTROL AS SET FORTH IN THE TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK. ALL SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONTRACT SO AS TO PREVENT ANY SEDIMENTATION FROM WASHING OFF THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHTS-OF-WAY. SEDIMENT FENCE SHALL BE INSTALLED AS DIRECTED. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL MAINTENANCE ACTIVITIES FOR THE EROSION CONTROL ELEMENTS AS REQUIRED BY THE STATE OF TENNESSEE DEPARTMENT OF WATER POLLUTION CONTROL.
- OF CARRYING OUT THE ABOVE REQUIREMENTS WILL BE CONSIDERED INCLUDED IN 8. A COPY OF THE EROSION CONTROL PLAN MUST BE AVAILABLE ON SITE FOR THE DWPC INSPECTOR ON REQUEST.
 - 9. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN. AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY. BUT MUST BE REPLACED AT THE END OF THE WORK DAY OR PRIOR TO RAINFALL EVENTS.
 - 10. ALL CONTROL MEASURES SHALL BE CHECKED AND STATE REQUIREMENTS FOR MAINTENANCE AND REPAIRS SHALL BE MADE AS NECESSARY. DURING PROLONGED RAINFALL, DAILY CHECKING AND REPAIRING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF INSPECTION CHECKS, MAINTENANCE, AND REPAIRS.
 - 11. THIS PLAN HAS BEEN REVIEWED AND APPEARS TO BE ADEQUATE. IF SEWER PIPE INSTALLATION BY BORE DOES NOT PROVIDE FOR EFFECTIVE SEDIMENT CONTROL AND EROSION PROTECTION, ADDITIONAL MEASURES WILL BE REQUIRED.
 - 12. IF PUMPING IS REQUIRED, SEDIMENT LADEN WATER IS NOT TO BE DISCHARGED INTO THE STORM DRAIN OR THE STREET.

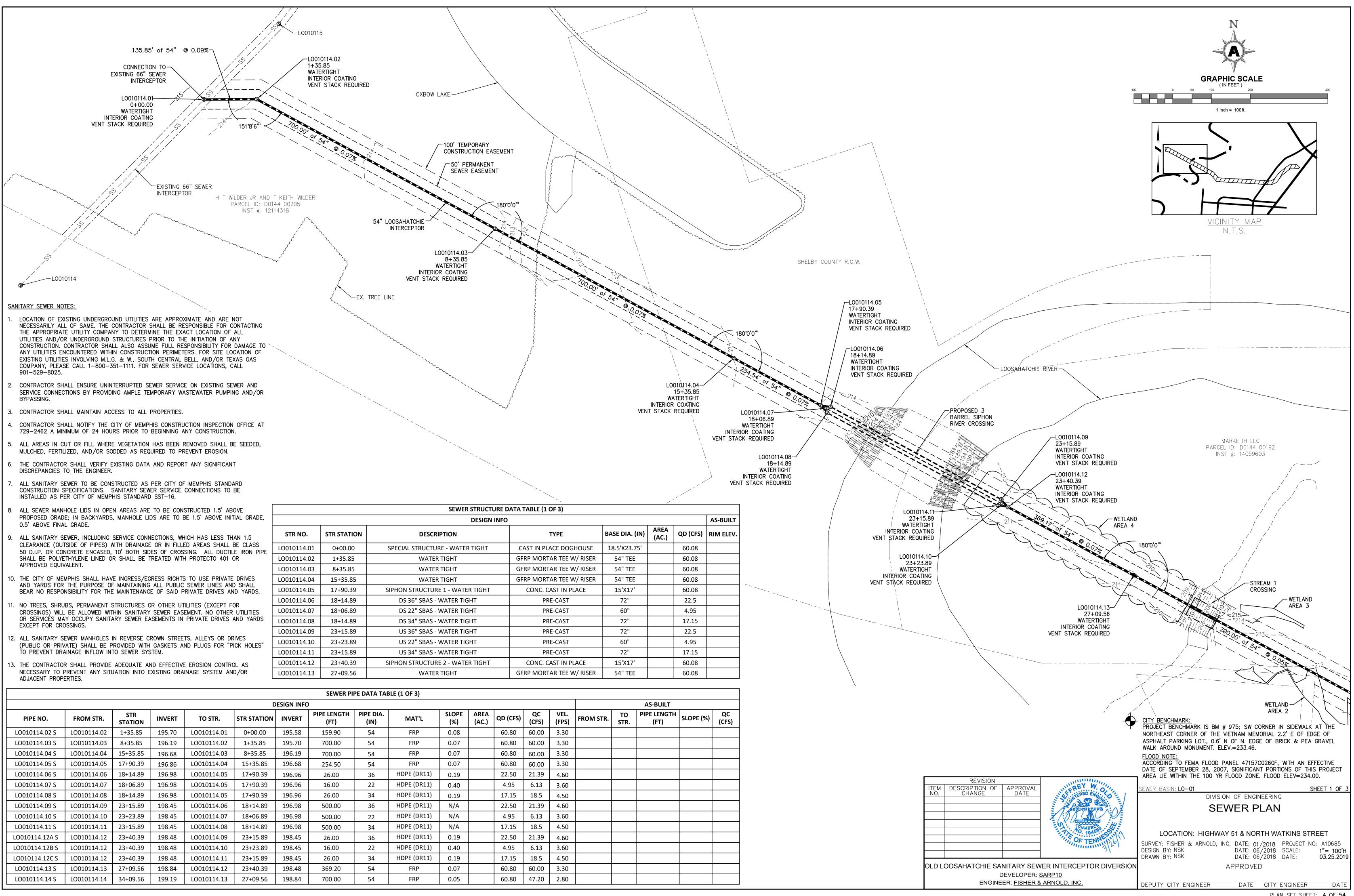
TRAFFIC CONTROL PLAN NOTES:

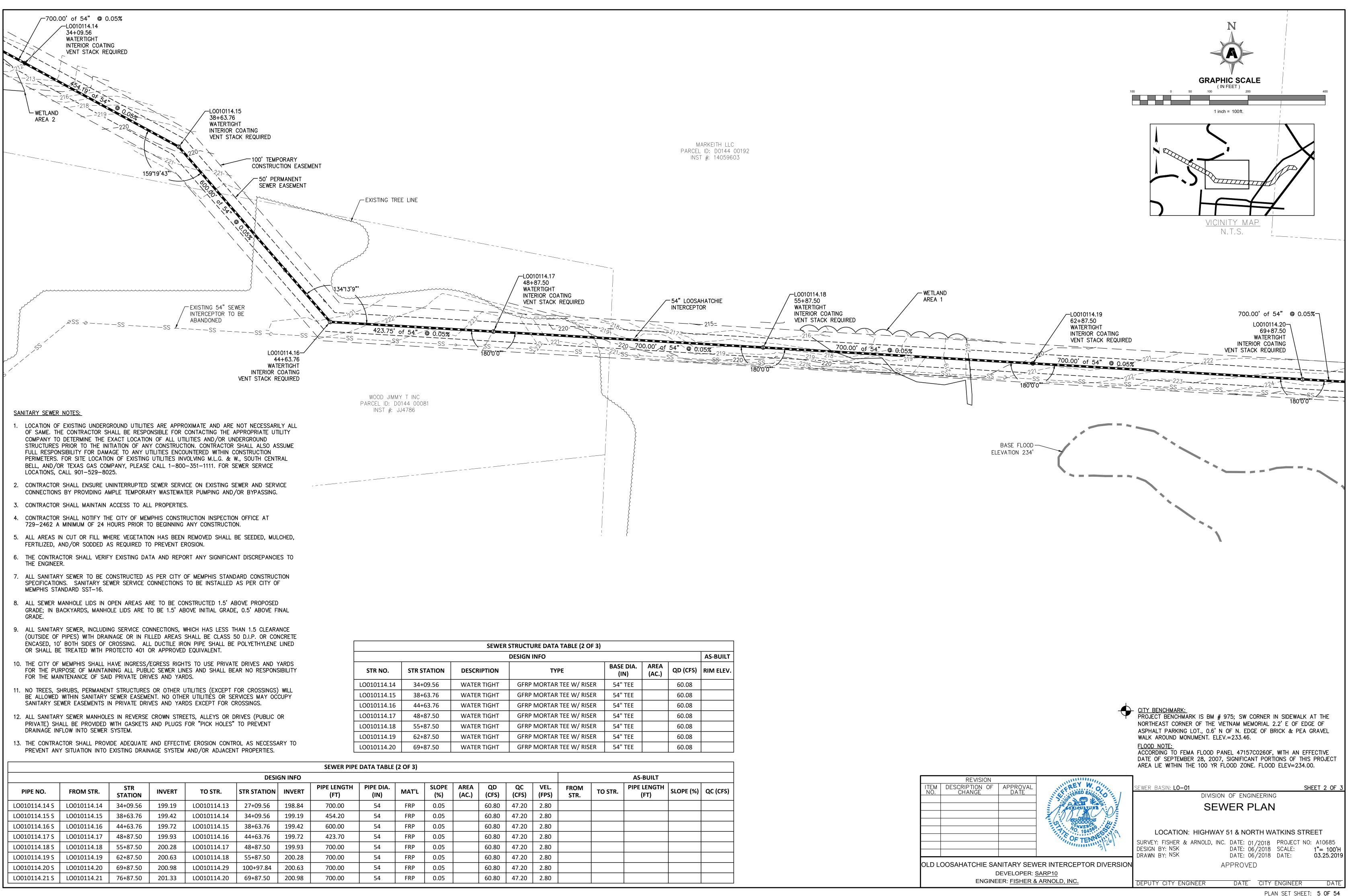
- 1. SEE SECTION 6F.03, SIGN PLACEMENT, OF THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR INFORMATION ON PLACEMENT AND MOUNTING OF SIGNS.
- 2. SIGNS SHOWN ON THIS PLAN ARE TO WARN TRAFFIC ABOUT THE CONSTRUCTION. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
- 3. NOTHING IN THIS PLAN IS INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
- 4. CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING A TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS.
- 5. SIZES OF ALL SIGNS SHALL COMPLY WITH STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 6. ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 TEMPORARY TRAFFIC CONTROL.
- 7. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- 8. SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
- 9. THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHICHEVER IS LESS, WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE WHICHEVER IS LESS, AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE.
- 10. CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "A" WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
- 11. CONTRACTOR SHALL COVER ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SIGNS OR DEVICES DURING CONSTRUCTION AND THEY SHALL REMAIN COVERED DURING CONSTRUCTION AND UNTIL SUCH TIME THAT NO CONFLICT EXISTS.
- 12. CONTRACTOR SHALL INSTALL TEMPORARY NO PARKING SIGNS AS REQUIRED WITHIN THE TRAFFIC CONTROL AREA.
- 13. TWO-WAY TRAFFIC SHALL BE MAINTAINED ON ALL ROADS AT ALL TIMES.
- 14. WORK WITHIN THE ROADWAY DURING DIFFERENT PHASES OF CONSTRUCTION SHALL NOT BE ACTIVE AT THE SAME TIME.
- 15. ALL TEMPORARY OR PERMANENT TRAVELED SURFACE SHALL BE INSPECTED DAILY BY THE CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING AND/OR REFINISHING PERFORMED.



16. WORK WITHIN THE ROADWAY SHALL BE CONDUCTED BETWEEN 9:00 AM AND 4:00 PM AND THE ROADWAY SHALL BE COMPLETELY OPEN TO TRAFFIC AT ALL OTHER TIMES AND ALL INAPPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.

- 17. CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS SIGNAL SHOP AT 528-2844 FOR LOCATION OF SIGNAL CONDUIT AND WIRES.
- 18. THE APPROPRIATE TRAFFIC CONTROL SHALL BE INSTALLED AT THE INCEPTION OF EACH STAGE OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER.
- 19. ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETROREFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- INSPECTION DEPARTMENT (636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (576-6710) A 20. THE CONTRACTOR IS PROHIBITED FROM CLOSING THE EXISTING SIDEWALK AT ANY TIME DURING THIS PROJECT. IF A SIDEWALK CLOSURE IS NEEDED, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER'S OFFICE.
 - 21. EXISTING STRIPING THAT CONFLICTS WITH THE TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING CONSTRUCTION. WHEN CONSTRUCTION IS COMPLETE, THE EXISTING STRIPING SHALL BE RETURNED TO ITS ORIGINAL STATE.
 - 22. THE DEVELOPER SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE CITY ENGINEER THAT SHOWS THE PHASING FOR EACH STREET FRONTAGE DURING DEMOLITION OR CONSTRUCTION OF CURB, GUTTER AND SIDEWALK. UPON COMPLETION OF SIDEWALK, CURB AND GUTTER IMPROVEMENTS, A MINIMUM 5 FEET WIDE PEDESTRIAN PATHWAY SHALL BE PROVIDED THROUGHOUT THE REMAINDER OF THE PROJECT.
 - 23. ANY CLOSURE TO THE RIGHT OF WAY SHALL BE TIME LIMITED TO THE ACTIVE DEMOLITION OR CONSTRUCTION. CONTINUOUS UNWARRANTED CLOSURE OF RIGHT OF WAY SHALL NOT BE ALLOWED FOR THE DURATION OF THE PROJECT. THE DEVELOPER SHALL PROVIDE ON THE TRAFFIC CONTROL PLAN. THE TIME NEEDED PER PHASE TO COMPLETE THAT PORTION OF THE WORK. TIME LIMITS WILL BEGIN ON THE DAY OF CLOSURE AND WILL BE MONITORED BY THE ENGINEERING CONSTRUCTION INSPECTORS (901-636-2462) ON THE JOB.
 - 24. THE CONTRACTOR SHALL NOTIFY MEMPHIS AREA TRANSIT AUTHORITY (MATA) AT 901-722-7100 A MINIMUM OF 48 HOURS PRIOR TO IMPLEMENTING A TRAFFIC CONTROL PLAN.
 - 25. CONTRACTOR SHALL CONTACT ALL APPROPRIATE AGENCIES BEFORE CLOSING ANY ROADWAYS.

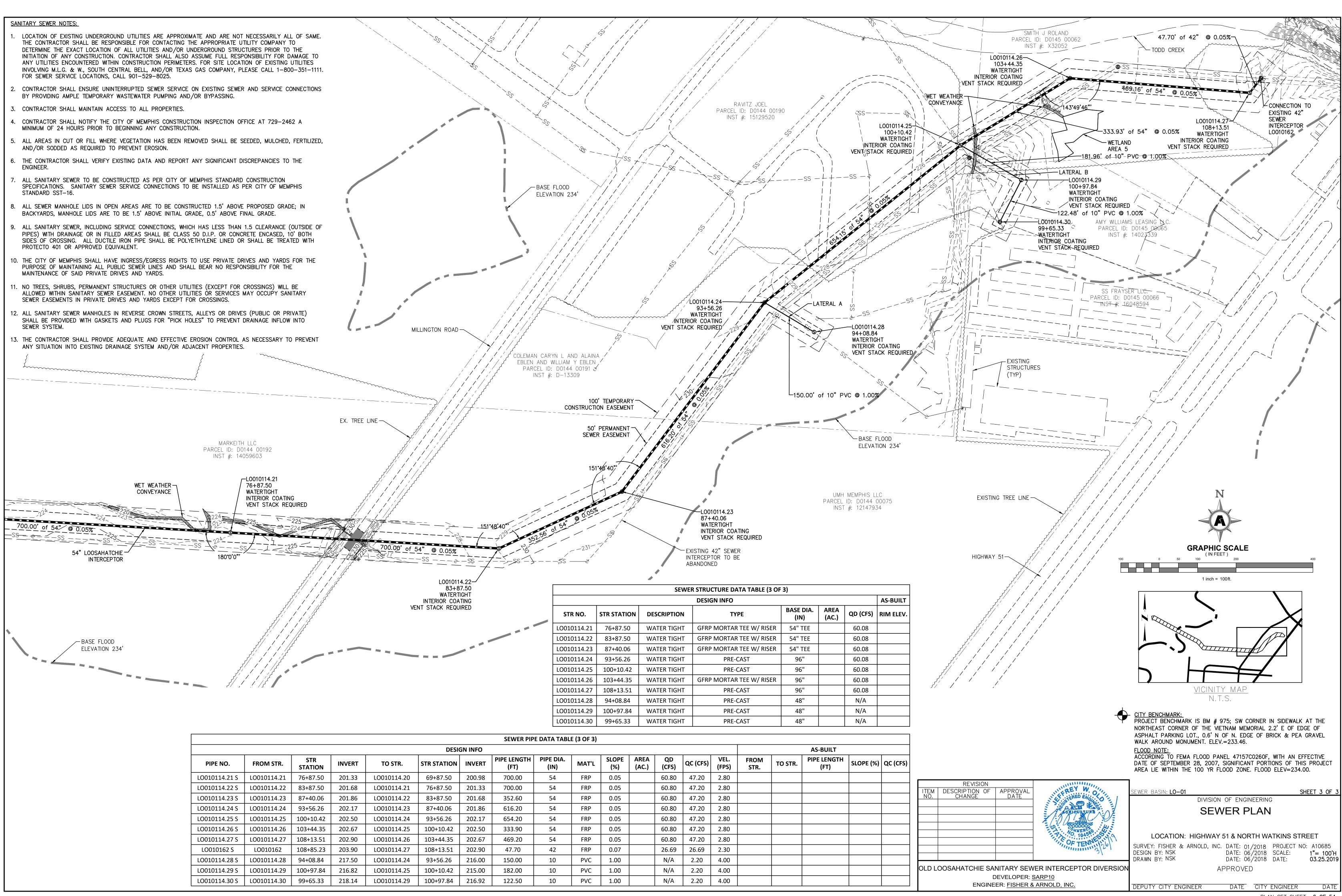




<u>المر</u> PLAN 2 0685

SEWERS	STRUCTURE DATA TABLE (2 OF 3)				
	DESIGN INFO				AS-BUILT
DESCRIPTION	ТҮРЕ	BASE DIA. (IN)	AREA (AC.)	QD (CFS)	RIM ELEV.
WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE		60.08	
WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE		60.08	
WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE		60.08	
WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE		60.08	
WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE		60.08	
WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE		60.08	
WATER TIGHT	GFRP MORTAR TEE W/ RISER	54" TEE		60.08	

						AS-BUILT		
AREA (AC.)	QD (CFS)	QC (CFS)	VEL. (FPS)	FROM STR.	TO STR.	PIPE LENGTH (FT)	SLOPE (%)	QC (CFS)
	60.80	47.20	2.80					
	60.80	47.20	2.80					
	60.80	47.20	2.80					
	60.80	47.20	2.80					
	60.80	47.20	2.80					
	60.80	47.20	2.80					
	60.80	47.20	2.80					
	60.80	47.20	2.80					



	SEWER PIPE DATA TABLE (3 OF 3)																	i –		
	DESIGN INFO I DESIGN I DESIGN INFO I DESIGN I DE																AS-BUILT			ĺ
PIPE NO.	FROM STR.	STR STATION	INVERT	TO STR.	STR STATION	INVERT	PIPE LENGTH (FT)	PIPE DIA. (IN)	MAT'L	SLOPE (%)	AREA (AC.)	QD (CFS)	QC (CFS)	VEL. (FPS)	FROM STR.	TO STR.	PIPE LENGTH (FT)	SLOPE (%)	QC (CFS)	
LO010114.21 S	LO010114.21	76+87.50	201.33	LO010114.20	69+87.50	200.98	700.00	54	FRP	0.05		60.80	47.20	2.80						l i
LO010114.22 S	LO010114.22	83+87.50	201.68	LO010114.21	76+87.50	201.33	700.00	54	FRP	0.05		60.80	47.20	2.80						1
LO010114.23 S	LO010114.23	87+40.06	201.86	LO010114.22	83+87.50	201.68	352.60	54	FRP	0.05		60.80	47.20	2.80						
LO010114.24 S	LO010114.24	93+56.26	202.17	LO010114.23	87+40.06	201.86	616.20	54	FRP	0.05		60.80	47.20	2.80						
LO010114.25 S	LO010114.25	100+10.42	202.50	LO010114.24	93+56.26	202.17	654.20	54	FRP	0.05		60.80	47.20	2.80						
LO010114.26 S	LO010114.26	103+44.35	202.67	LO010114.25	100+10.42	202.50	333.90	54	FRP	0.05		60.80	47.20	2.80						ĺ
LO010114.27 S	LO010114.27	108+13.51	202.90	LO010114.26	103+44.35	202.67	469.20	54	FRP	0.05		60.80	47.20	2.80						ĺ
LO010162 S	LO010162	108+85.23	203.90	LO010114.27	108+13.51	202.90	47.70	42	FRP	0.07		26.69	26.69	2.30						ĺ
LO010114.28 S	LO010114.28	94+08.84	217.50	LO010114.24	93+56.26	216.00	150.00	10	PVC	1.00		N/A	2.20	4.00						ĺ
LO010114.29 S	LO010114.29	100+97.84	216.82	LO010114.25	100+10.42	215.00	182.00	10	PVC	1.00		N/A	2.20	4.00						
LO010114.30 S	LO010114.30	99+65.33	218.14	LO010114.29	100+97.84	216.92	122.50	10	PVC	1.00		N/A	2.20	4.00						

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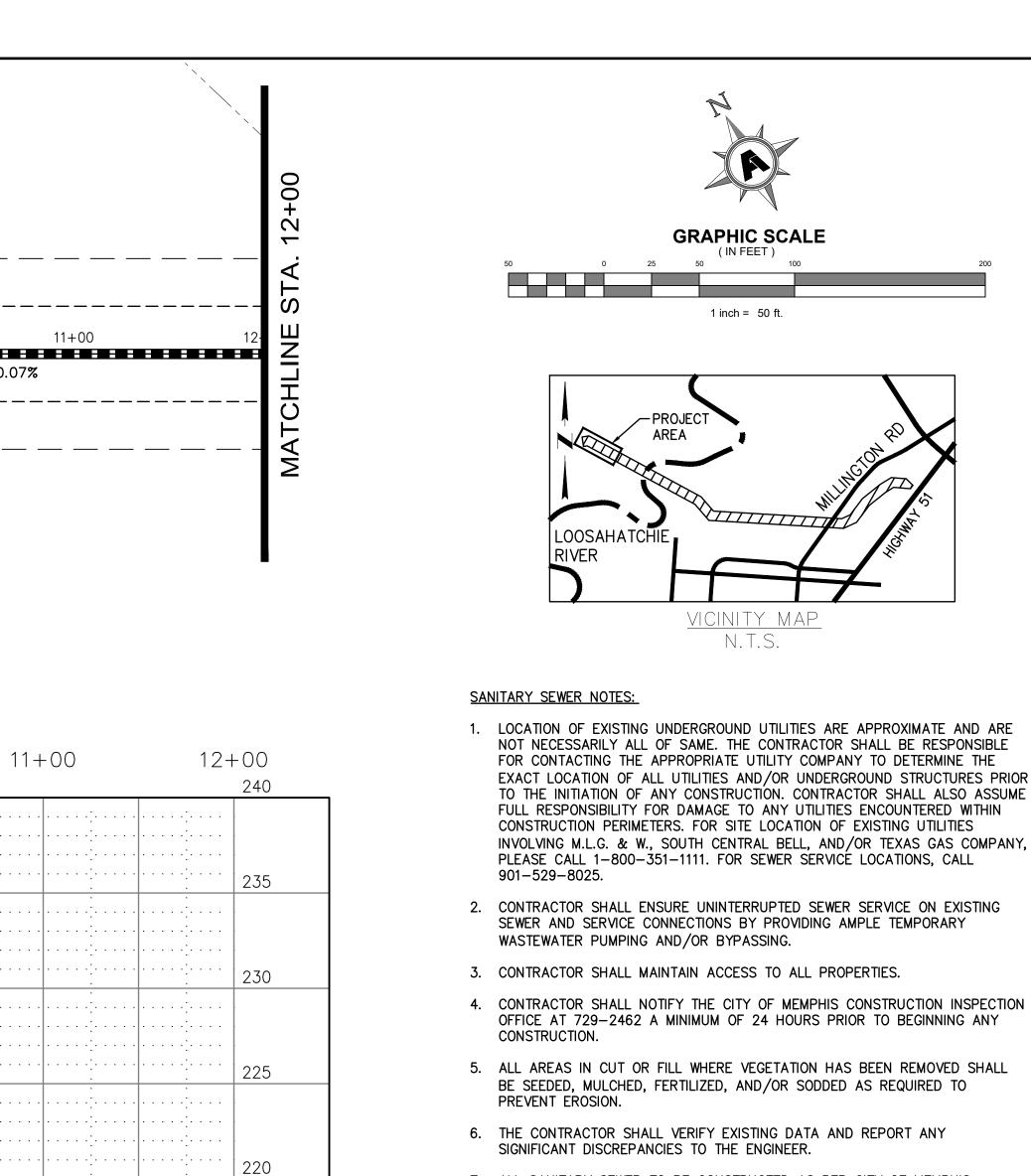
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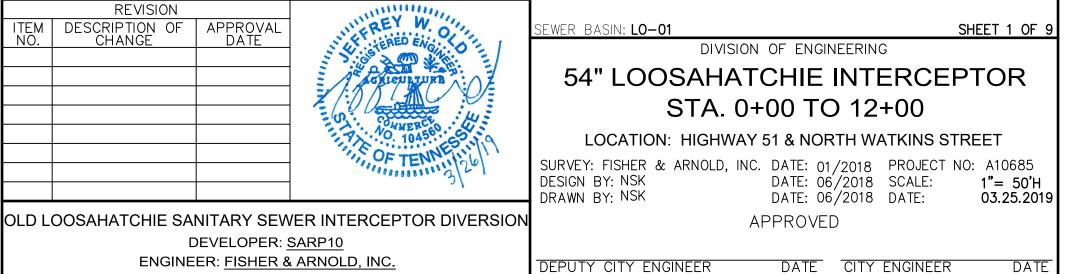
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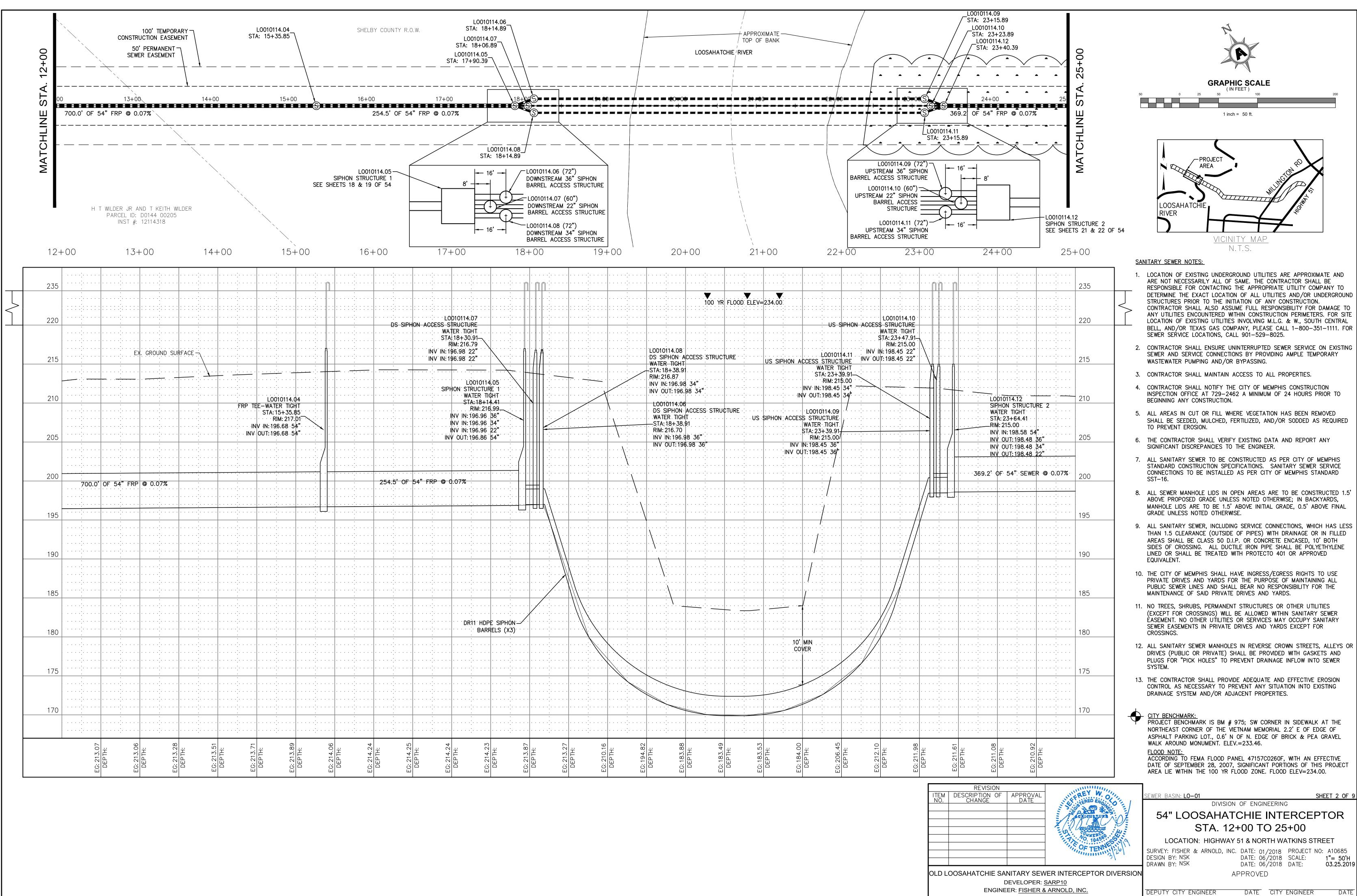


- 7. ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
- 8. ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE UNLESS NOTED OTHERWISE; IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE UNLESS NOTED OTHERWISE.
- 9. ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5 CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
- 10. THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
- 11. NO TREES, SHRUBS, PERMANENT STRUCTURES OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
- 12. ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR "PICK HOLES" TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
- 13. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SITUATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

- CITY BENCHMARK: PROJECT BENCHMARK IS BM # 975; SW CORNER IN SIDEWALK AT THE NORTHEAST CORNER OF THE VIETNAM MEMORIAL 2.2' E OF EDGE OF ASPHALT PARKING LOT., 0.6' N OF N. EDGE OF BRICK & PEA GRAVEL WALK AROUND MONUMENT. ELEV.=233.46. FLOOD NOTE:

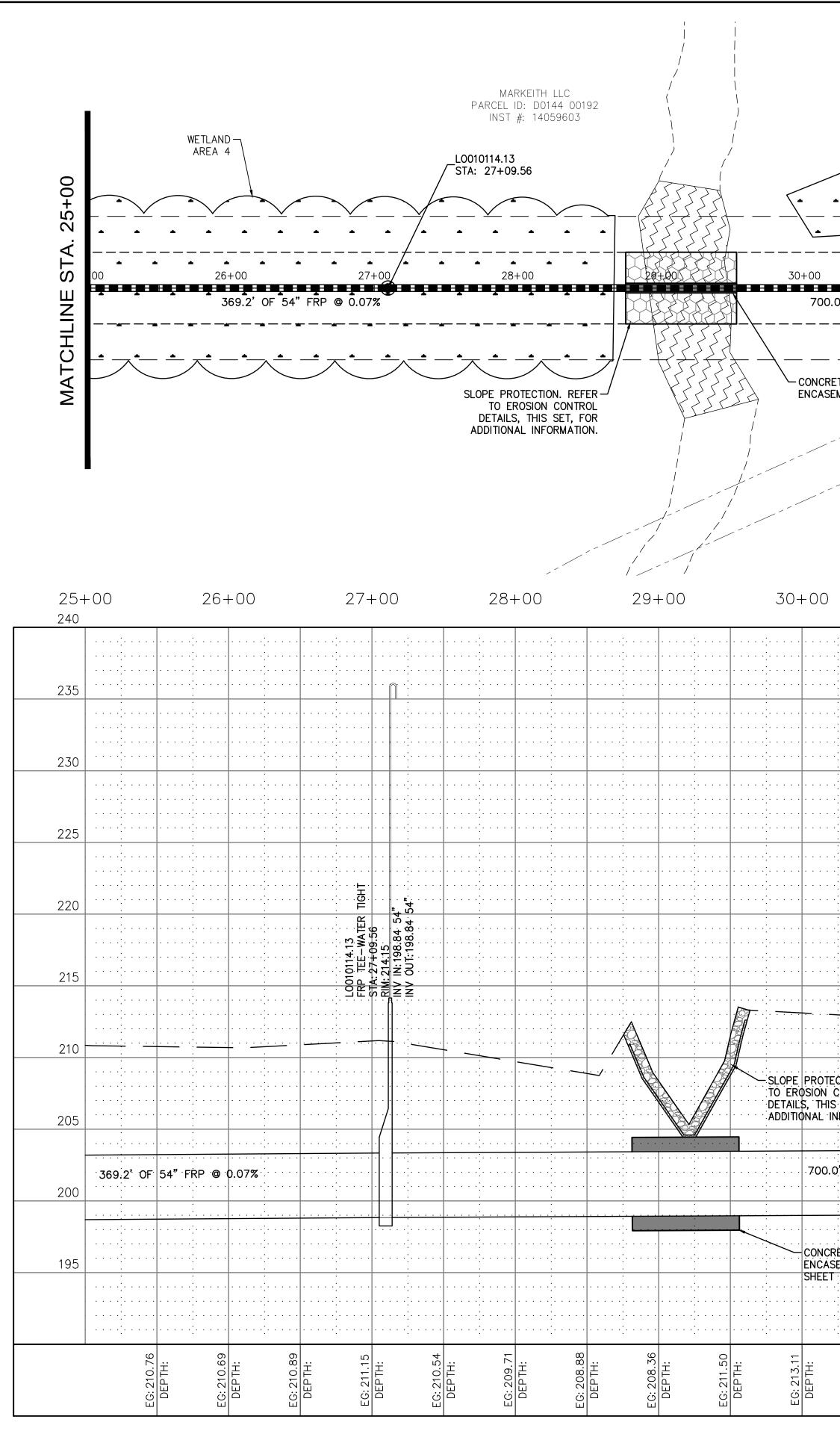
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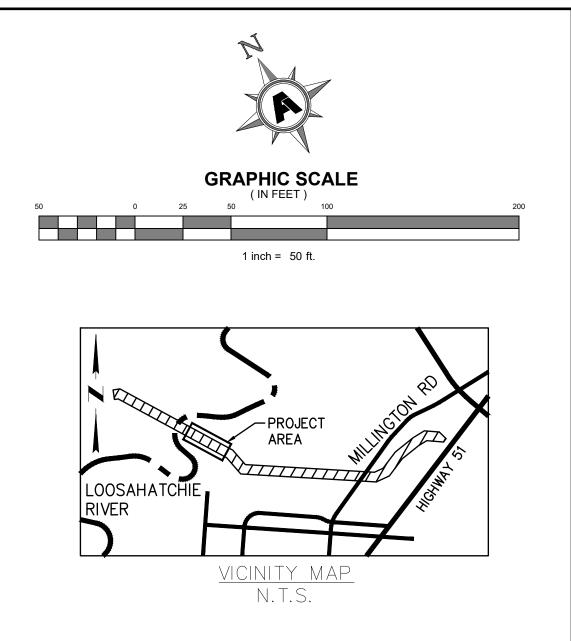
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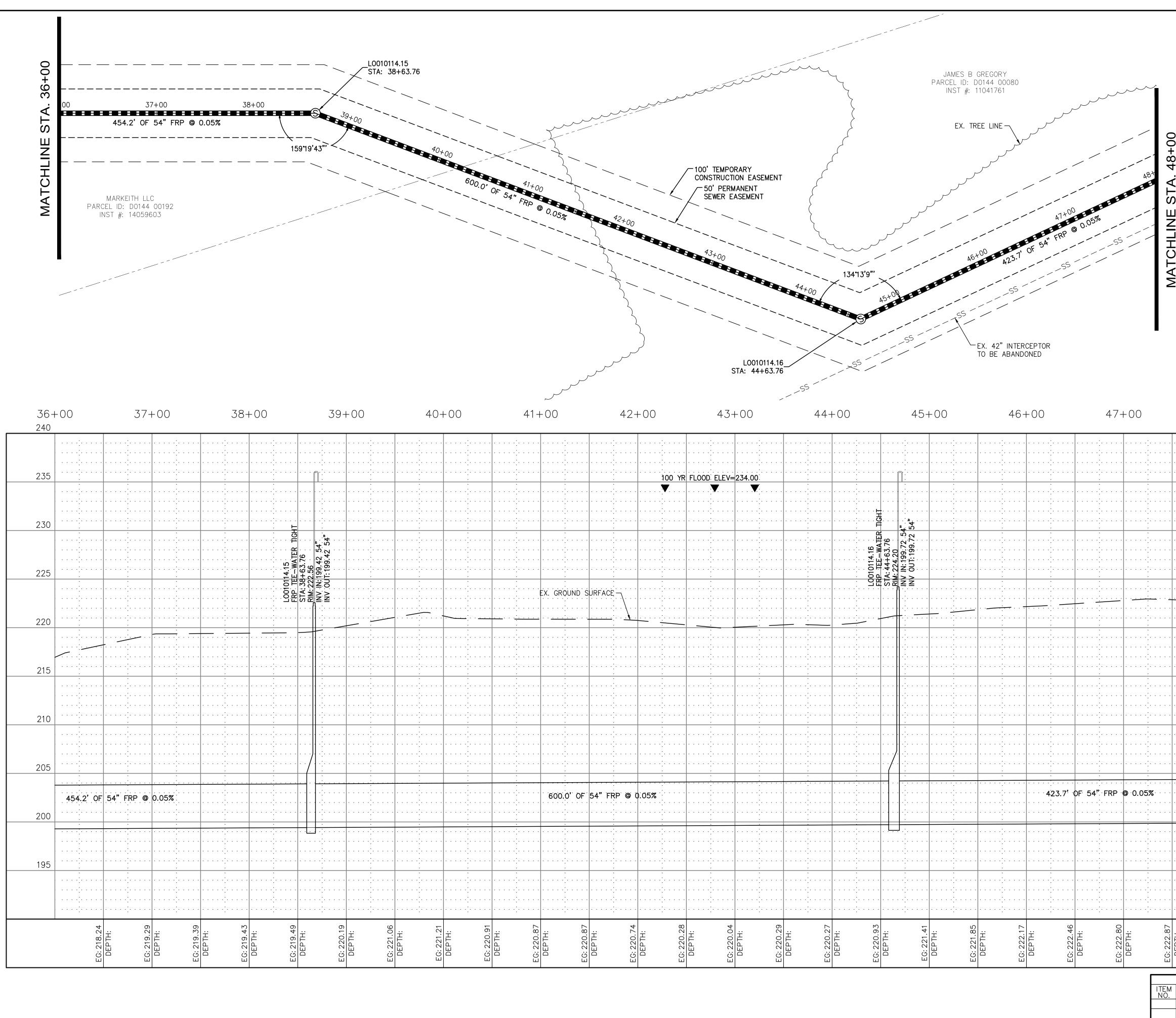
SANITARY SEWER NOTES:

- 1. LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATION OF EXISTING UTILITIES INVOLVING M.L.G. & W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-529-8025.
- CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING 2. SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- 3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- 4. CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT 729-2462 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- 5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
- 6. THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- 7. ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
- 8. ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE UNLESS NOTED OTHERWISE; IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE UNLESS NOTED OTHERWISE.
- 9. ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5 CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
- 10. THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
- 11. NO TREES, SHRUBS, PERMANENT STRUCTURES OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
- 12. ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR "PICK HOLES" TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
- 13. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SITUATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

CITY BENCHMARK: PROJECT BENCHMARK IS BM # 975; SW CORNER IN SIDEWALK AT THE NORTHEAST CORNER OF THE VIETNAM MEMORIAL 2.2' E OF EDGE OF ASPHALT PARKING LOT., 0.6' N OF N. EDGE OF BRICK & PEA GRAVEL WALK AROUND MONUMENT. ELEV.=233.46. FLOOD NOTE: ACCORDING TO FEMA FLOOD PANEL 47157C0260F, WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2007, SIGNIFICANT PORTIONS OF THIS PROJECT AREA LIE WITHIN THE 100 YR FLOOD ZONE. FLOOD ELEV=234.00. REVISION REY W. ITEM DESCRIPTION OF APPROVAL NO. CHANGE DATE SEWER BASIN: LO-01 SHEET 3 OF 9 DIVISION OF ENGINEERING 54" LOOSAHATCHIE INTERCEPTOR STA. 25+00 TO 36+00 LOCATION: HIGHWAY 51 & NORTH WATKINS STREET SURVEY: FISHER & ARNOLD, INC. DATE: 01/2018 PROJECT NO: A10685 DESIGN BY: NSK DATE: 06/2018 SCALE: 1"= 50'H 03.25.2019 DRAWN BY: NSK DATE: 06/2018 DATE: OLD LOOSAHATCHIE SANITARY SEWER INTERCEPTOR DIVERSIO APPROVED DEVELOPER: <u>SARP10</u>

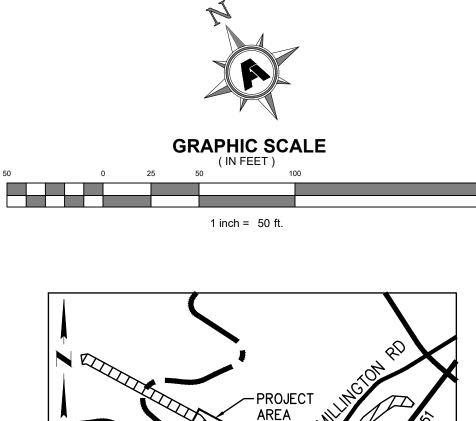
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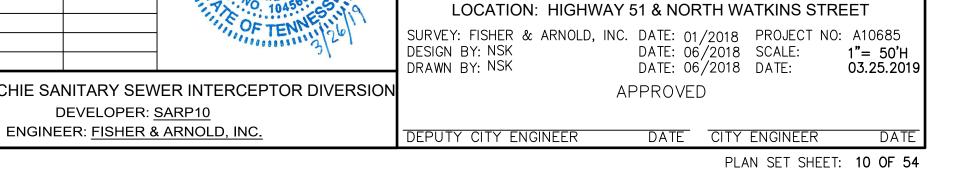


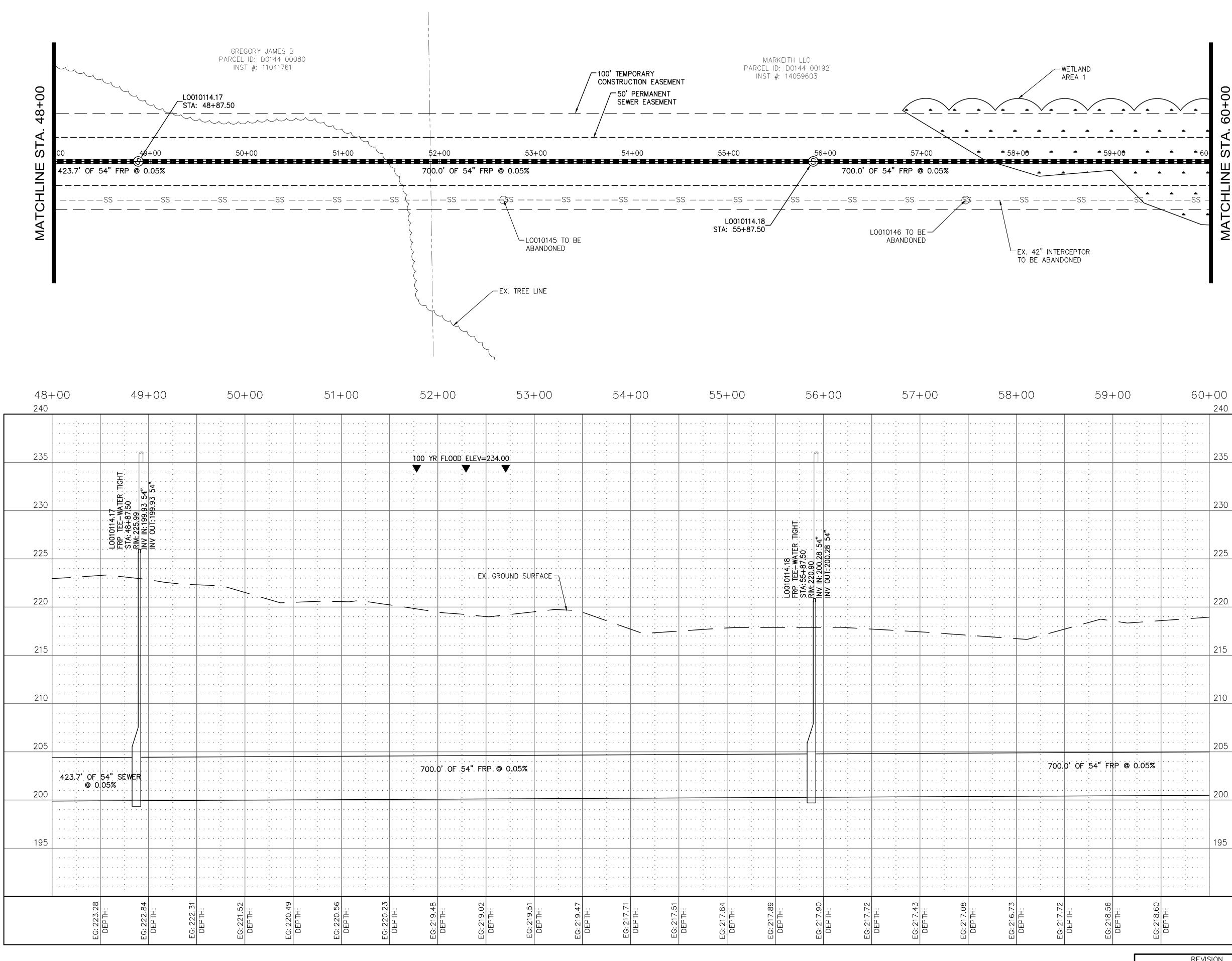
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	· · ·	O	ONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION FFICE AT 729–2462 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY ONSTRUCTION.
	. 230	BE	LL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL E SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO REVENT EROSION.
			HE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY IGNIFICANT DISCREPANCIES TO THE ENGINEER.
· · · · · · · · · · · · · · · · · · ·	225	S	LL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS TANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE ONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
	· 220	Al M	LL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' BOVE PROPOSED GRADE UNLESS NOTED OTHERWISE; IN BACKYARDS, ANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL RADE UNLESS NOTED OTHERWISE.
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	210	DF LI	HE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE RIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER NES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID RIVATE DRIVES AND YARDS.
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			RAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.
		-	- <u>CITY BENCHMARK:</u>
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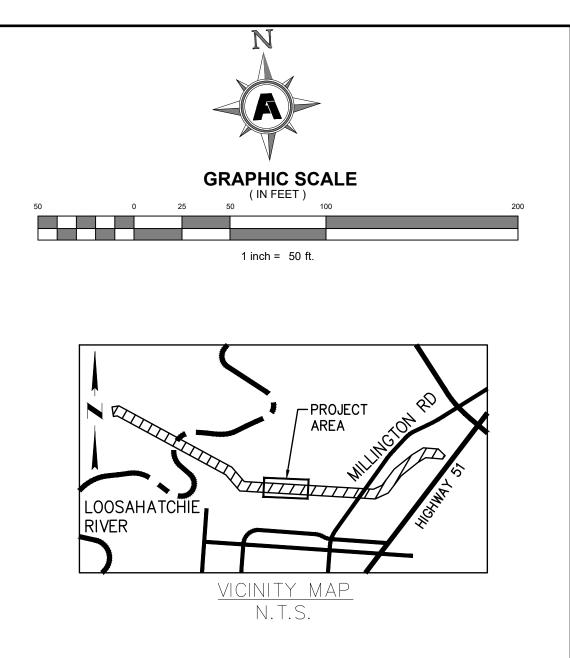




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SANITARY SEWER NOTES:

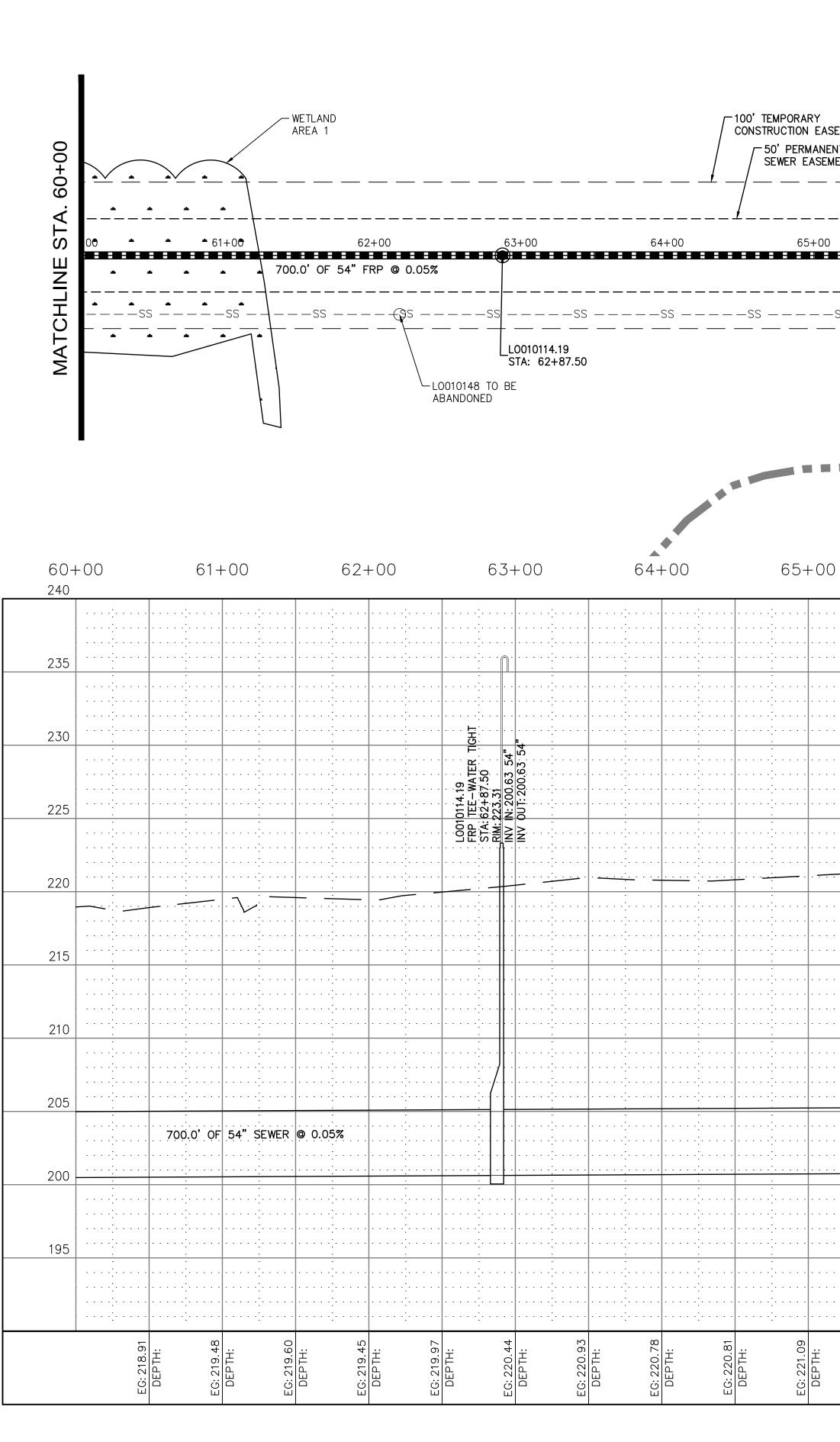
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- 4. CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT 729-2462 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- 5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
- 6. THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- 7. ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
- 8. ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE UNLESS NOTED OTHERWISE; IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE UNLESS NOTED OTHERWISE.
- 9. ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5 CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
- 10. THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
- 11. NO TREES, SHRUBS, PERMANENT STRUCTURES OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
- 12. ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR "PICK HOLES" TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
- 13. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SITUATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

- CITY BENCHMARK: PROJECT BENCHMARK IS BM # 975; SW CORNER IN SIDEWALK AT THE NORTHEAST CORNER OF THE VIETNAM MEMORIAL 2.2' E OF EDGE OF ASPHALT PARKING LOT., 0.6' N OF N. EDGE OF BRICK & PEA GRAVEL WALK AROUND MONUMENT. ELEV.=233.46.

FLOOD NOTE: ACCORDING TO FEMA FLOOD PANEL 47157C0260F, WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2007, SIGNIFICANT PORTIONS OF THIS PROJECT AREA LIE WITHIN THE 100 YR FLOOD ZONE. FLOOD ELEV=234.00.

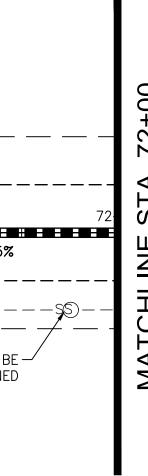
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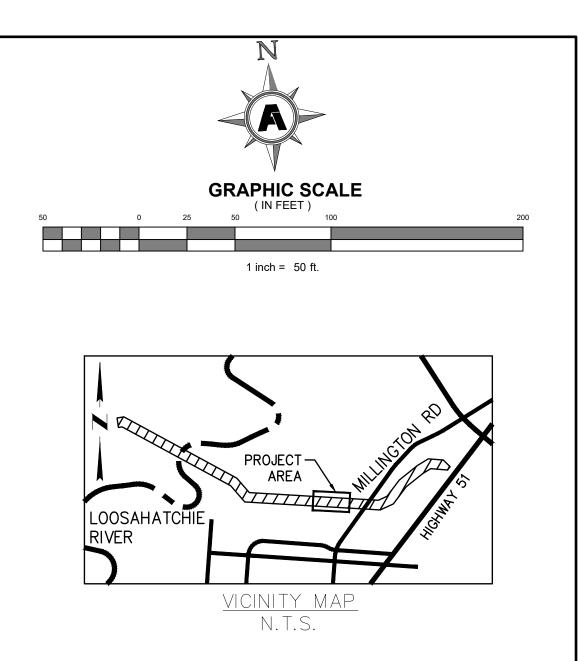
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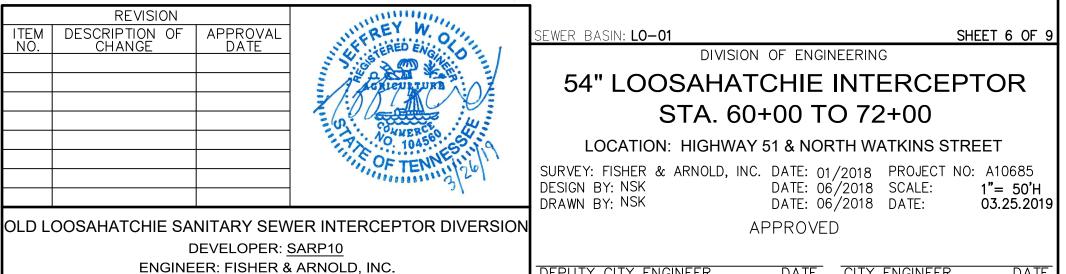


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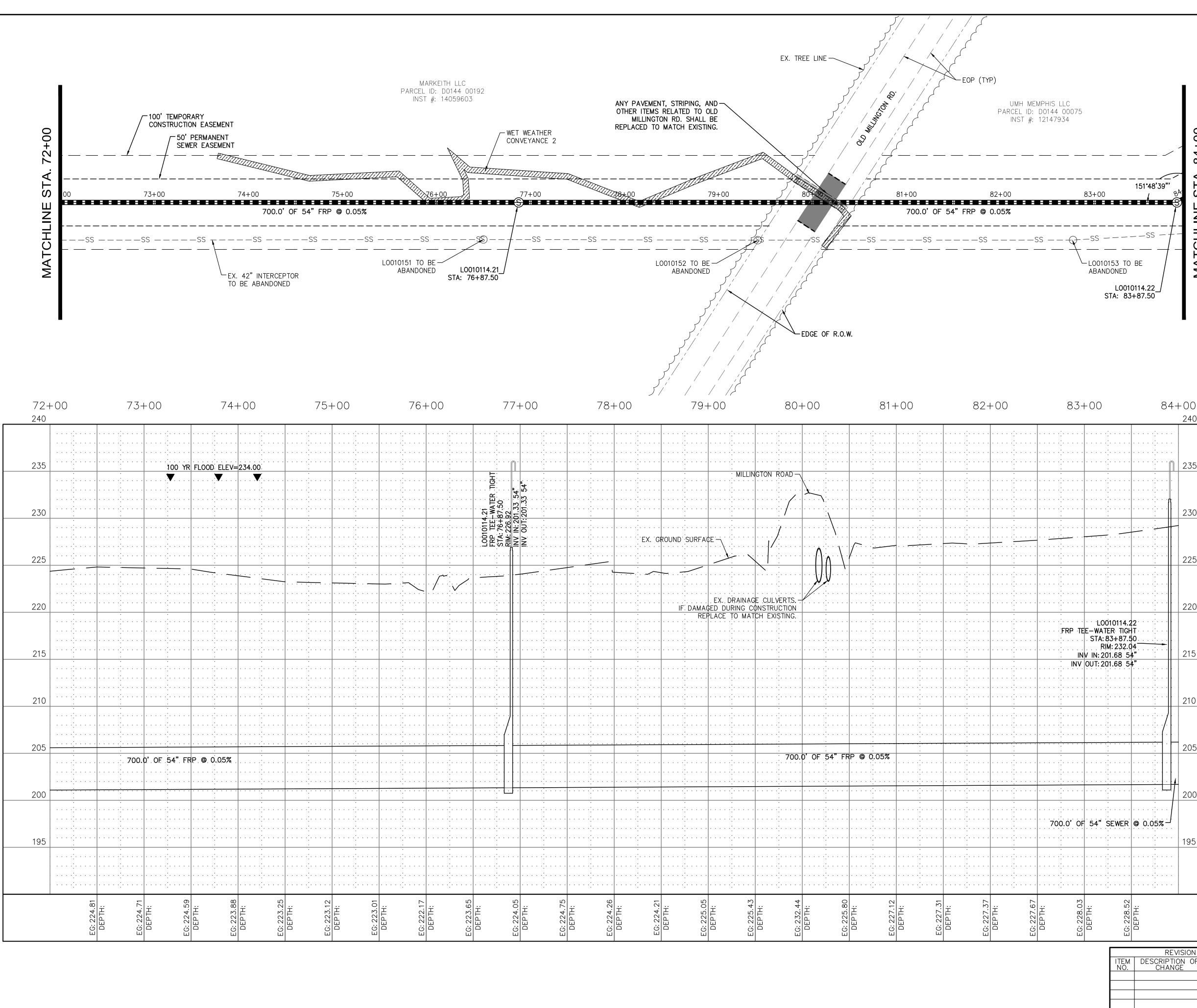


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PLAN SET SHEET: 12 OF 54

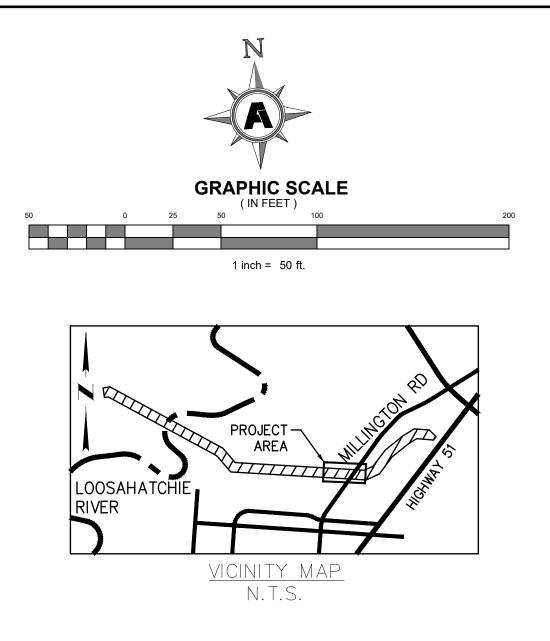
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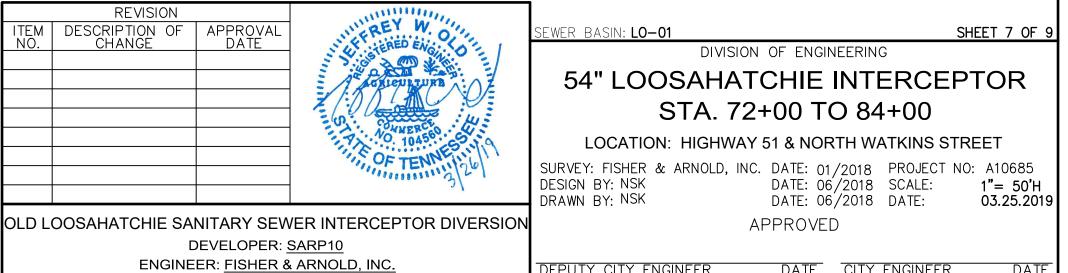


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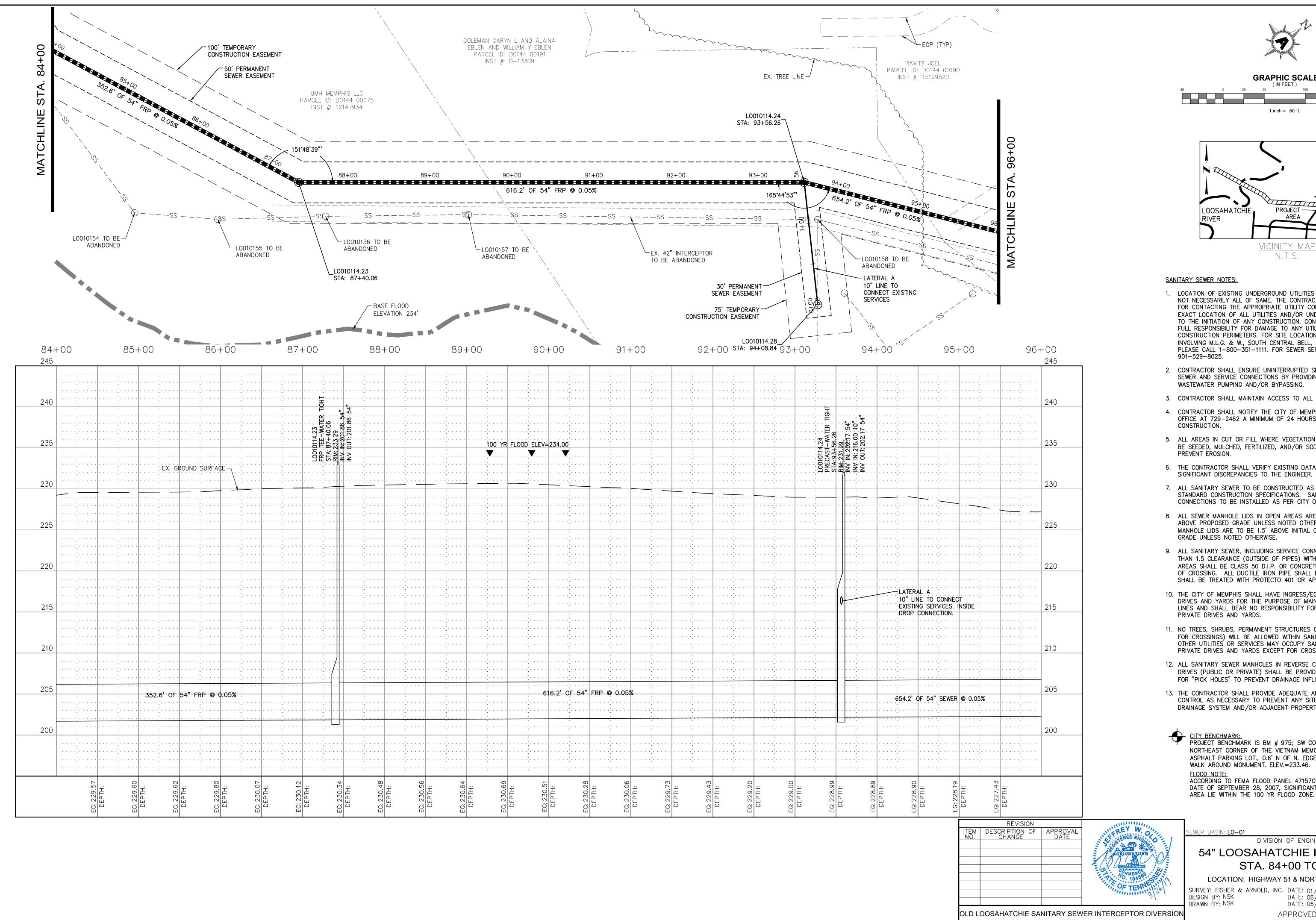


DEPUTY CITY ENGINEER

PLAN SET SHEET: 13 OF 54

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DATE CITY ENGINEER



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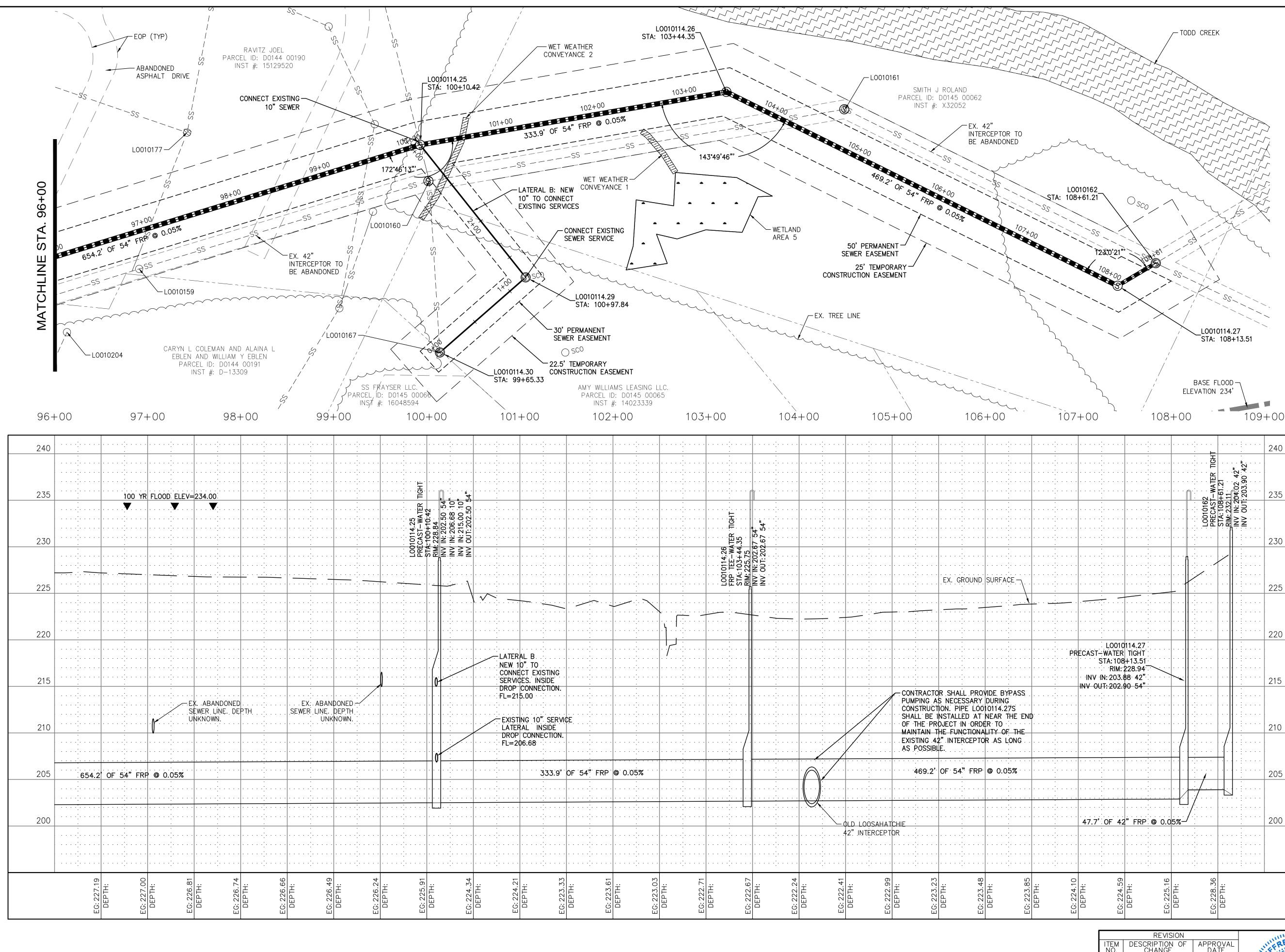
GRAPHIC SCALE (IN FEET) 1 inch = 50 ft. PROJECT-AREA

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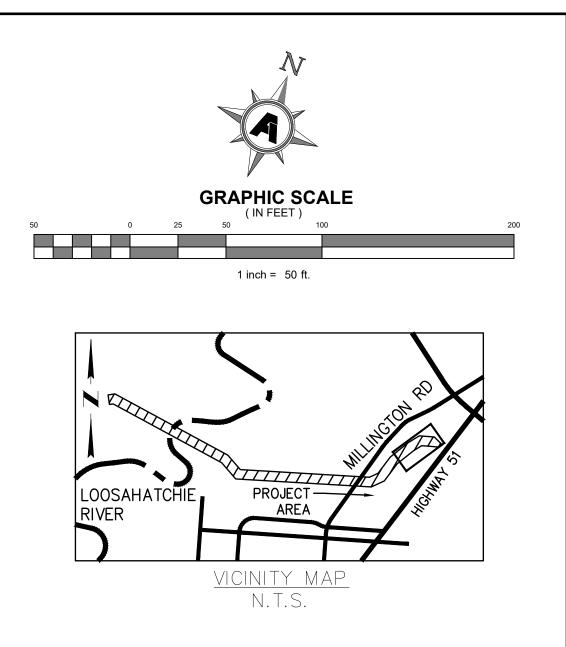
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REVISION DESCRIPTION OF APPROVAL	NUL REY W	SEWER BASIN: LO-01		SHEET 8 OF 9
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	OF TENNIN 3/26/	SURVEY: FISHER & ARNOLD, INC. DESIGN BY: NSK DRAWN BY: NSK	DATE: 01/2018 PROJECT DATE: 06/2018 SCALE:	NO: A10685 1"= 50'H 03.25.2019
OOSAHATCHIE SANITARY SEW	ER INTERCEPTOR DIVERSION		PROVED	05.25.2019
DEVELOPER:	SARP10			
ENGINEER: <u>FISHER 8</u>	ARNOLD, INC.	DEPUTY CITY ENGINEER	DATE CITY ENGINEER	R DATE



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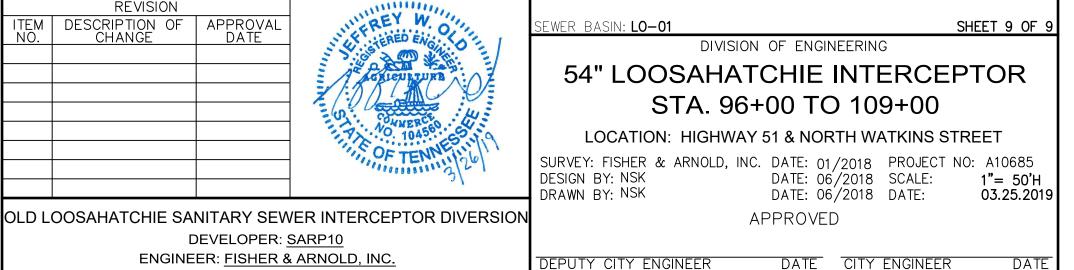


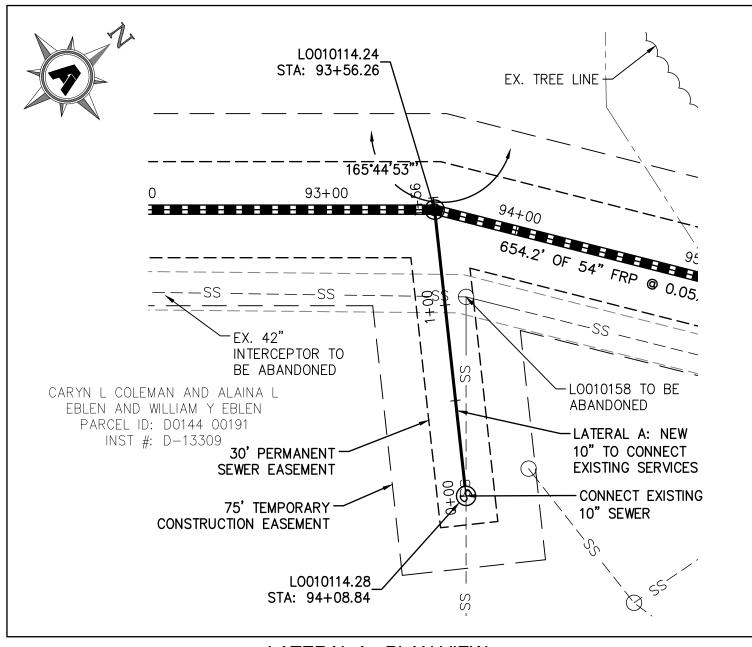
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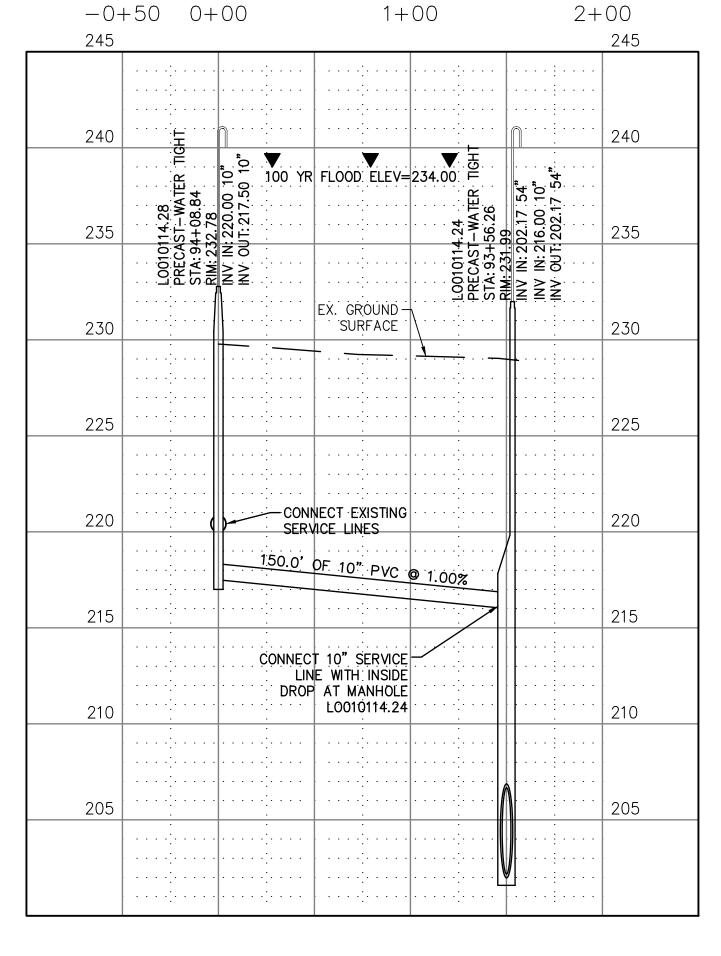
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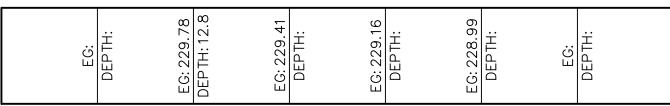
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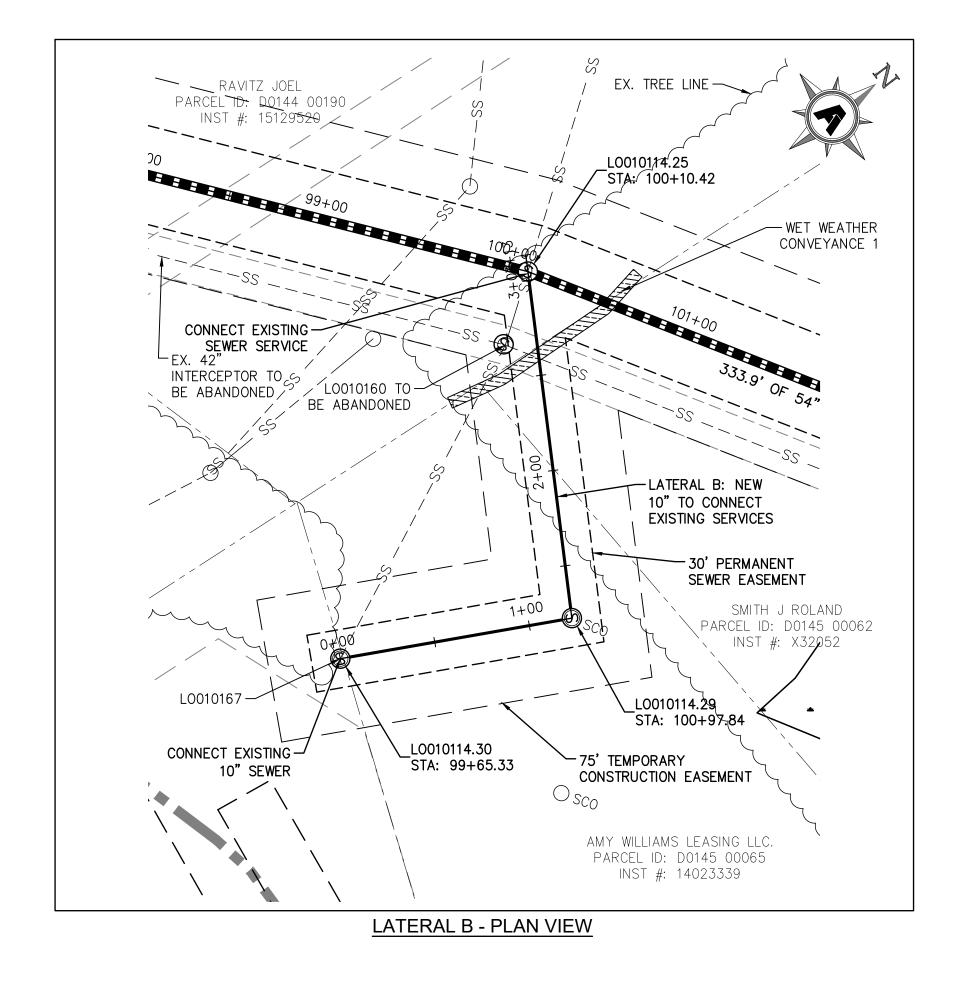


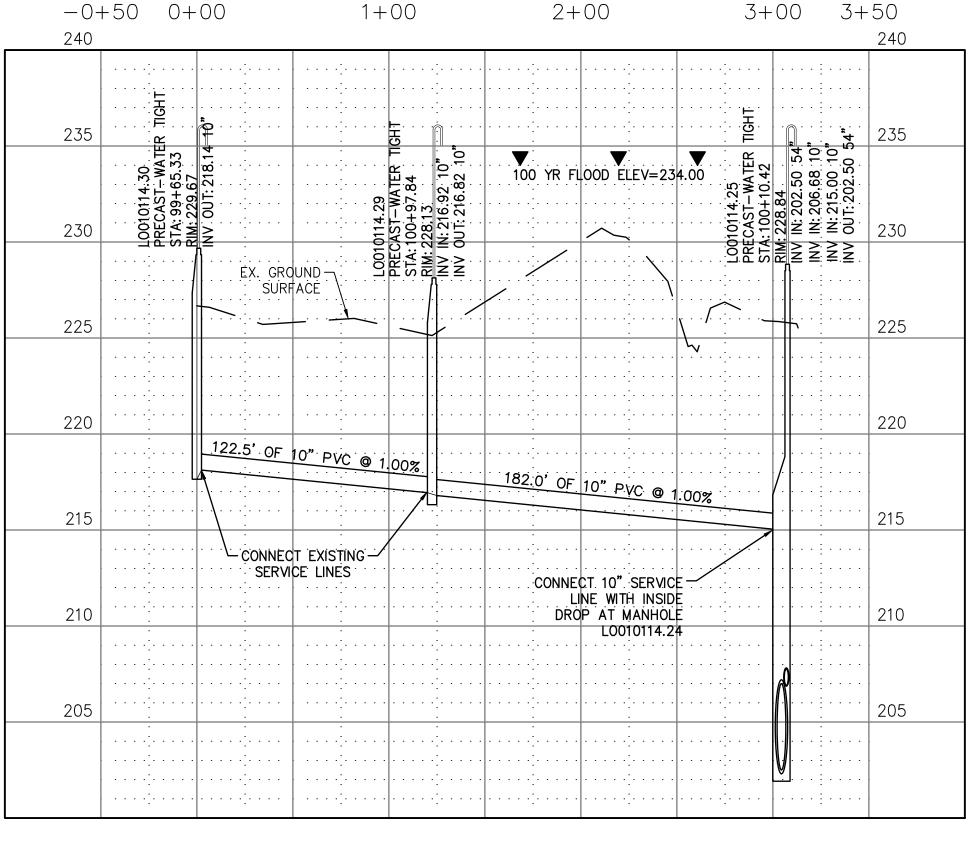






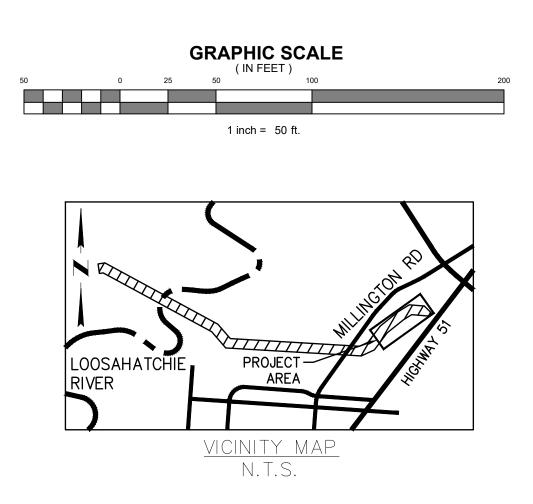






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LATERAL B - PROFILE VIEW



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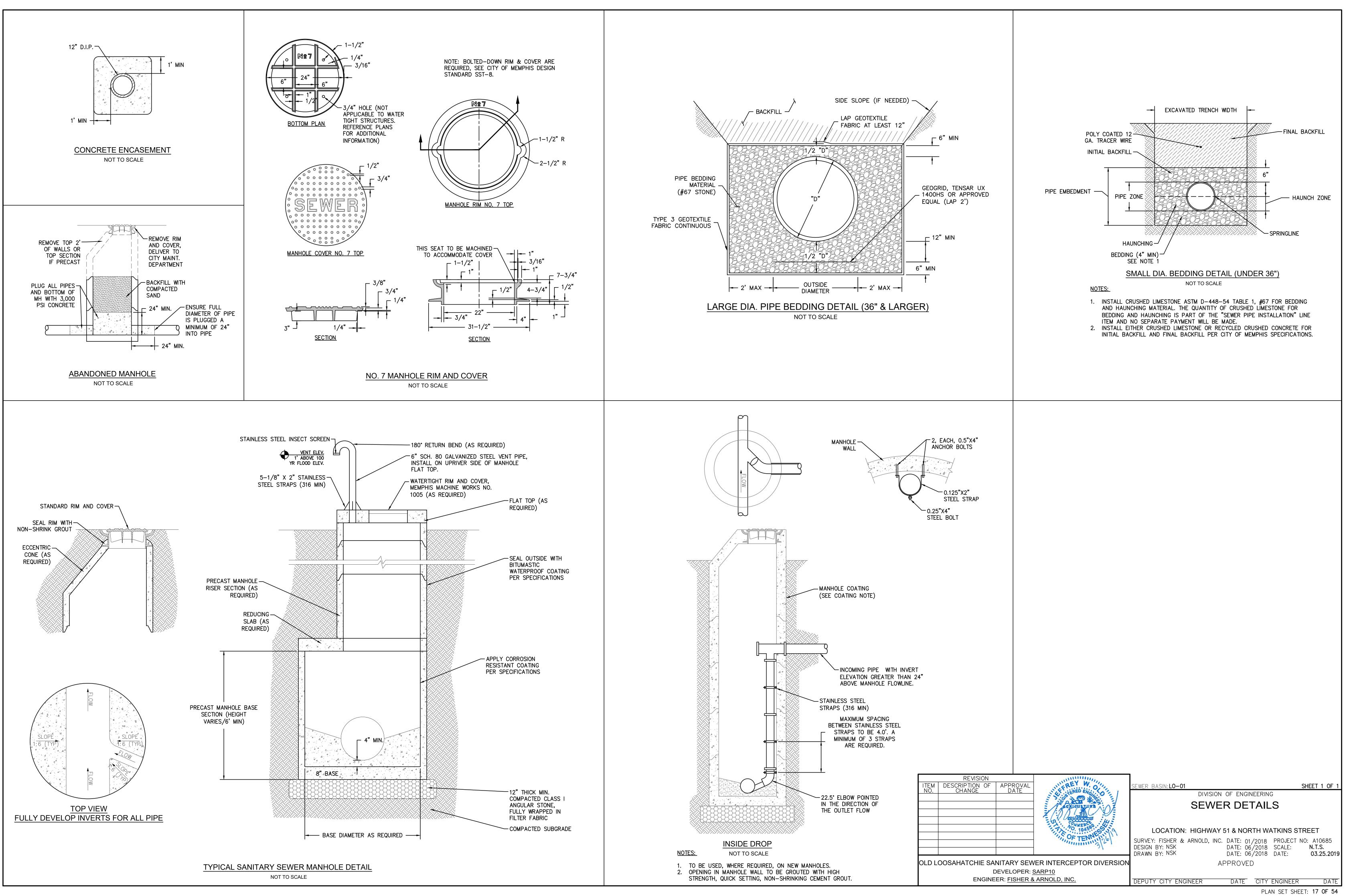
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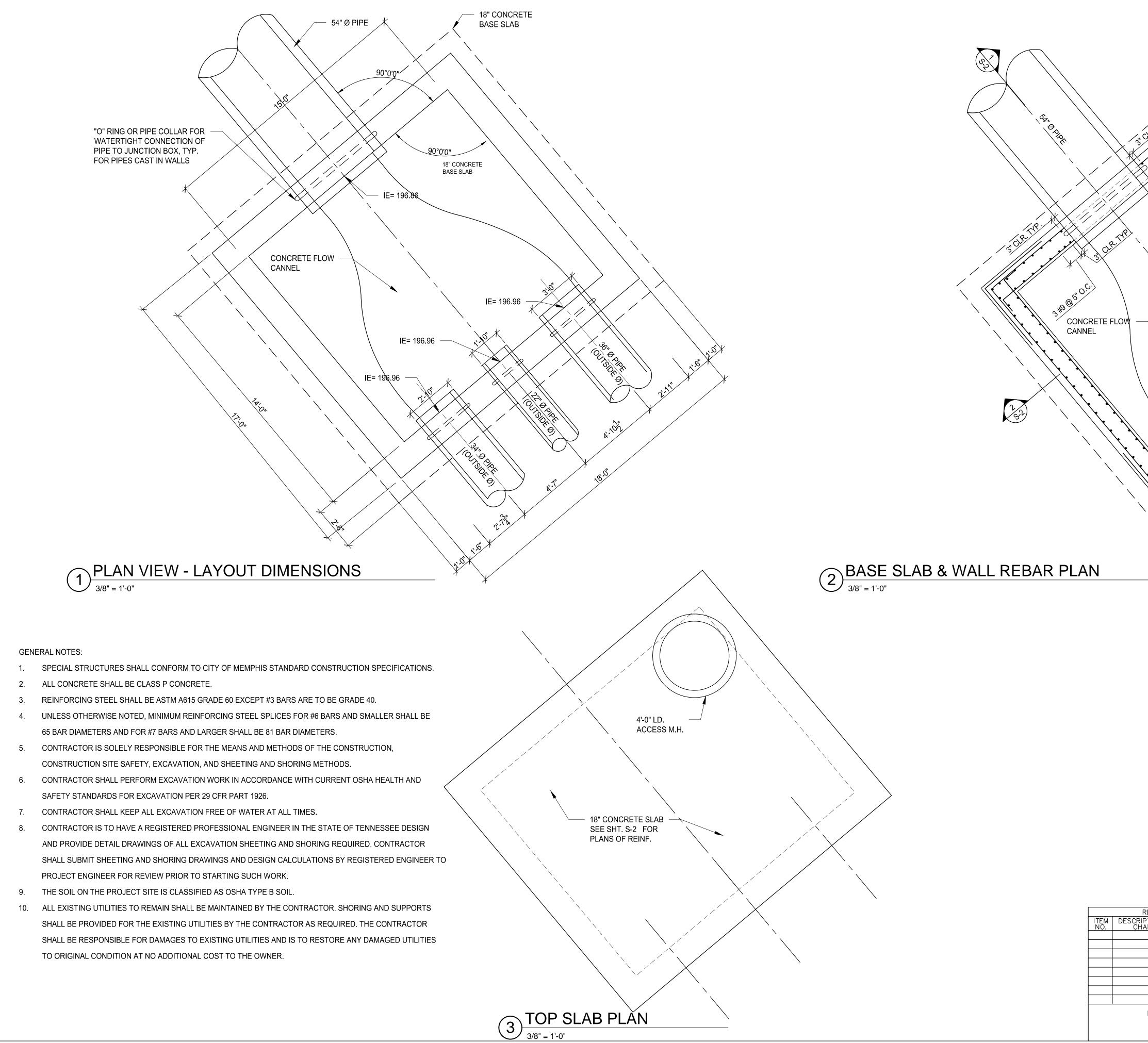
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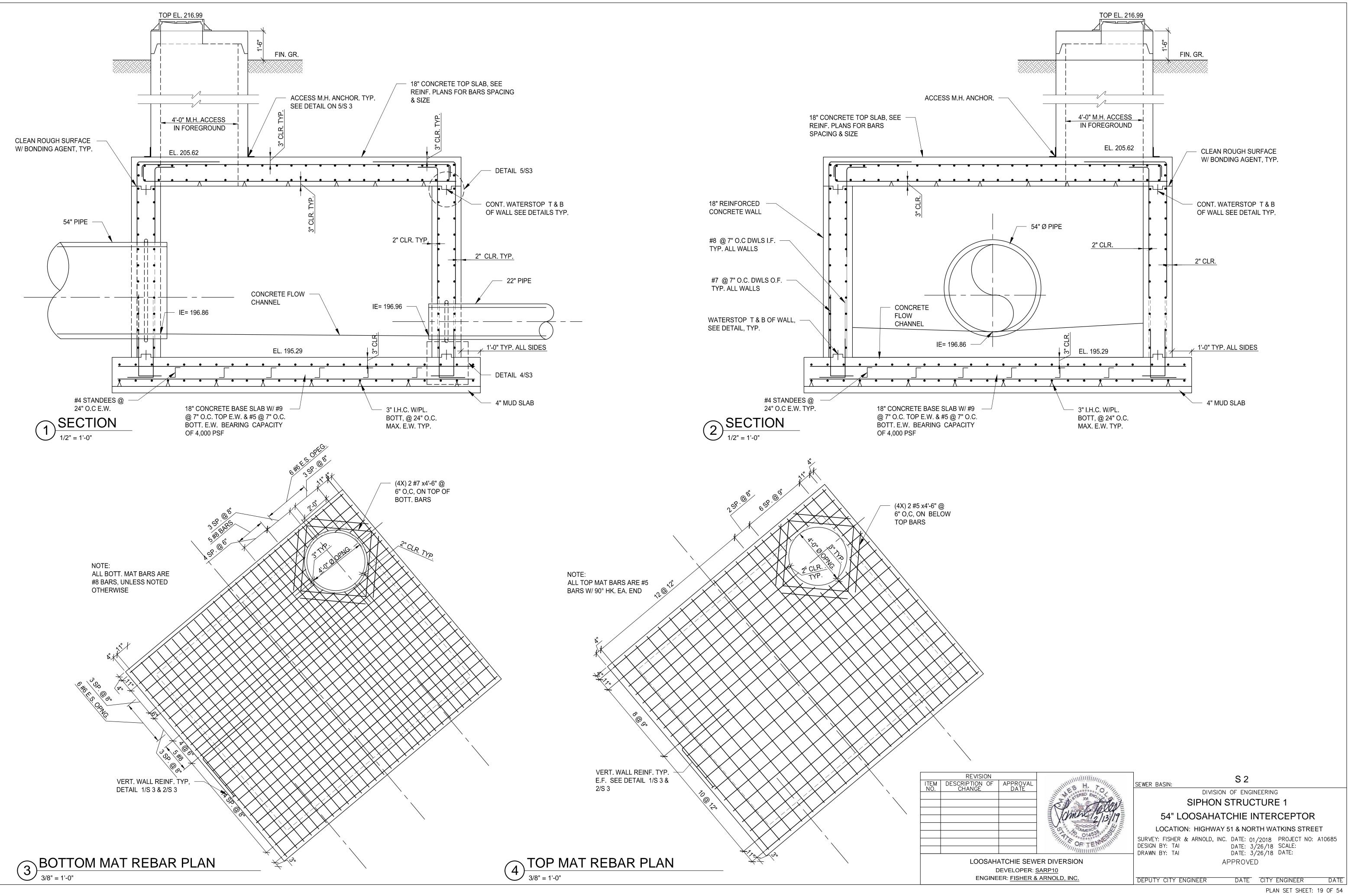
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				PLAN & PROFILES
			TY NO 10456 5	LOCATION: HIGHWAY 51 & NORTH WATKINS STREET
			OF TENNIN 3/26/	SURVEY: FISHER & ARNOLD, INC. DATE: 01/2018 PROJECT NO: A10685 DESIGN BY: NSK DATE: 06/2018 SCALE: 1"= 50'H DRAWN BY: NSK DATE: 06/2018 DATE: 03.25.2019
LD L(DOSAHATCHIE SAN	NITARY SEW	ER INTERCEPTOR DIVERSION	, , , , , , , , , , , , , , , , , , ,
	D	EVELOPER: S	SARP10	
	ENGINE	ER: <u>FISHER &</u>	ARNOLD, INC.	DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

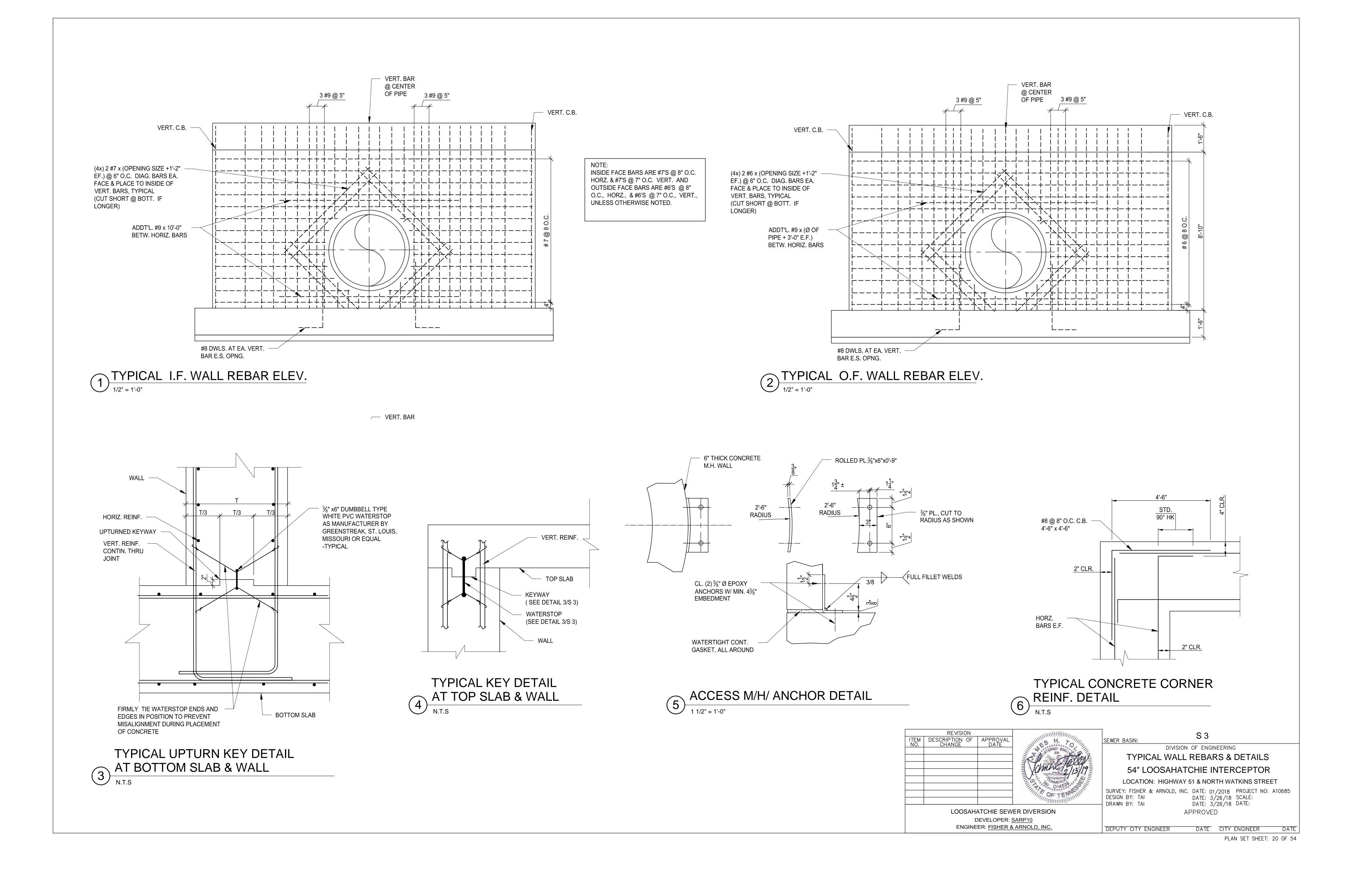


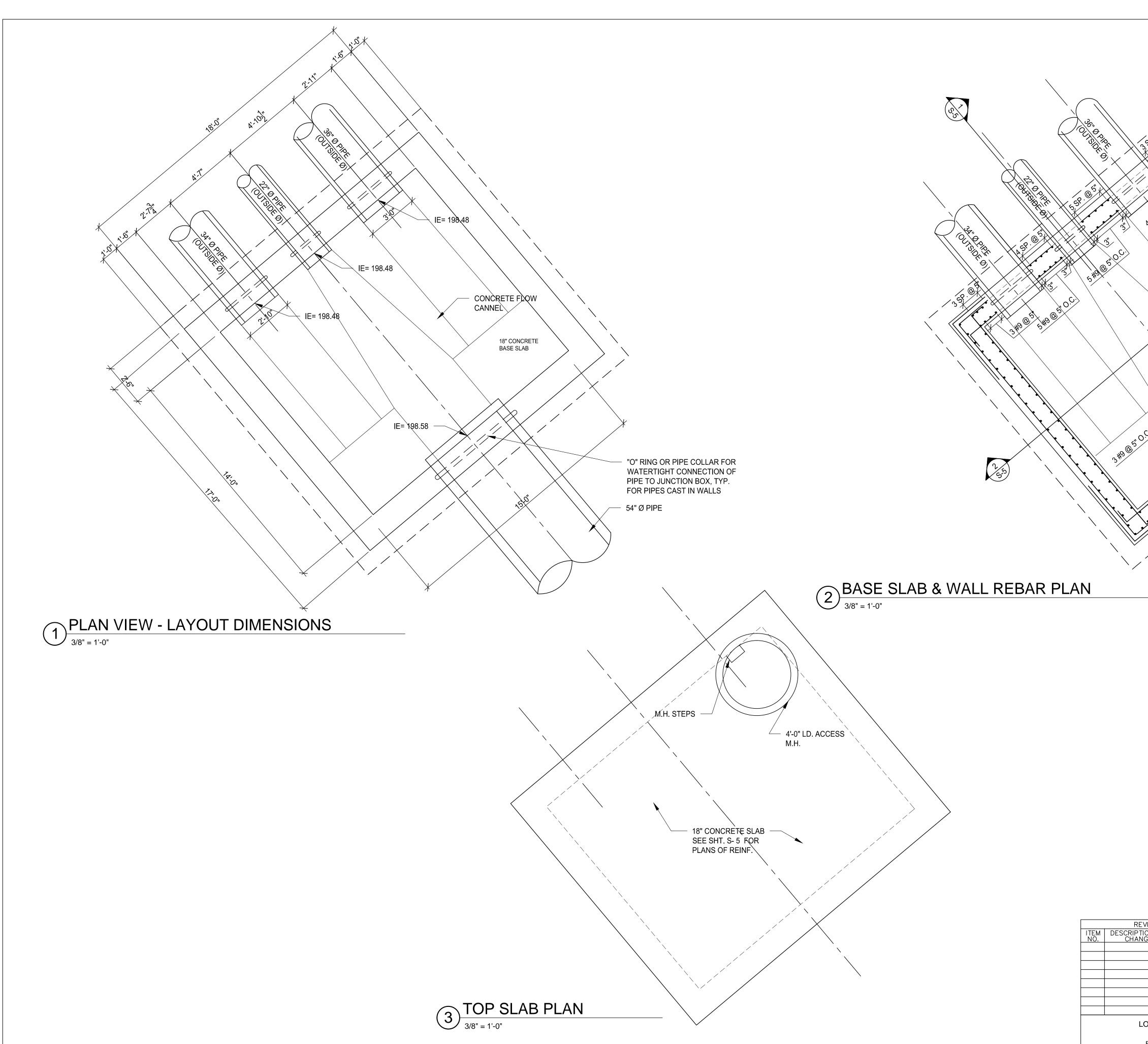
Бд 4:41 ame: 14 SEWER DETAILS Monday, April 08, 2019 – ted:



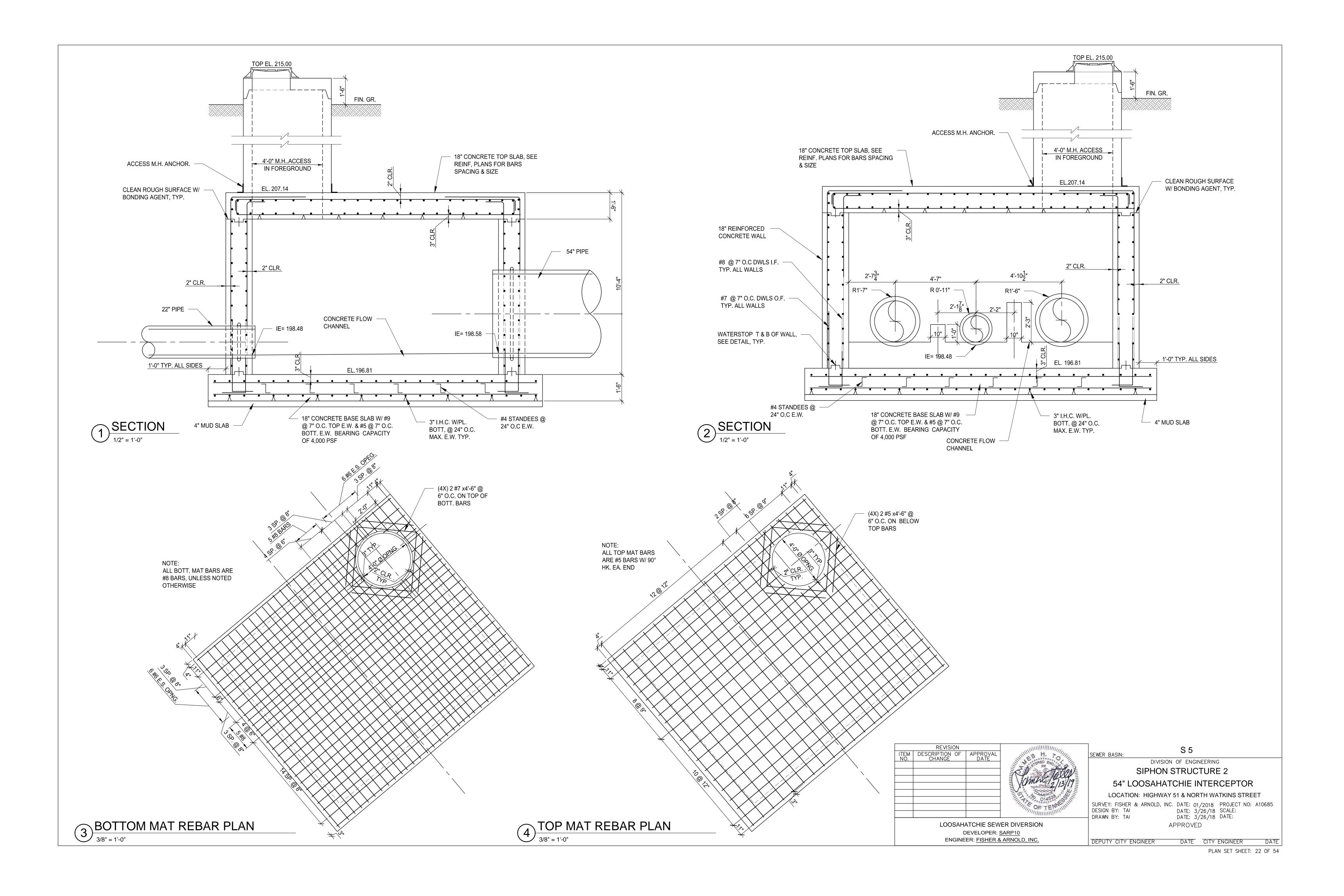
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*** #7 @ 7" O.C. VERT. I.F. W/ #8 @ 7" O.C. VERT. DWLS I.F. *** *** **** ****		/ #7 @ 8" O.C. HORZ. I.F.
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54" LOOSAHATCHIE INTERCEPTOR LOCATION: HIGHWAY 51 & NORTH WATKINS STREET SURVEY: FISHER & ARNOLD, INC. DATE: 01/2018 PROJECT NO: A10685 DESIGN BY: TAI	OT A DAMER	LOCATION: HIGHWAY 51 & NORTH WATKINS STREET SURVEY: FISHER & ARNOLD, INC. DATE: 01/2018 PROJECT NO: A10685
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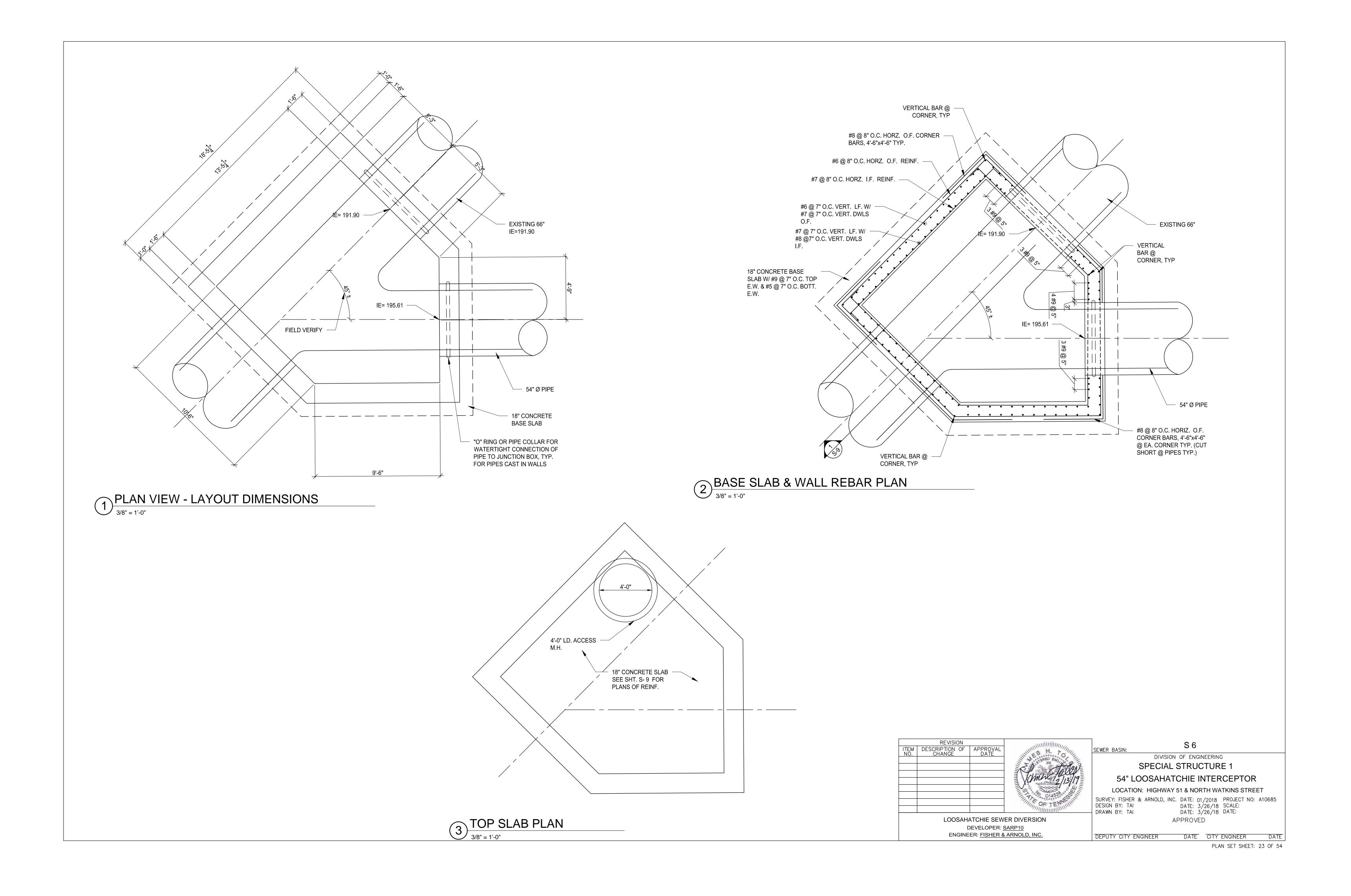


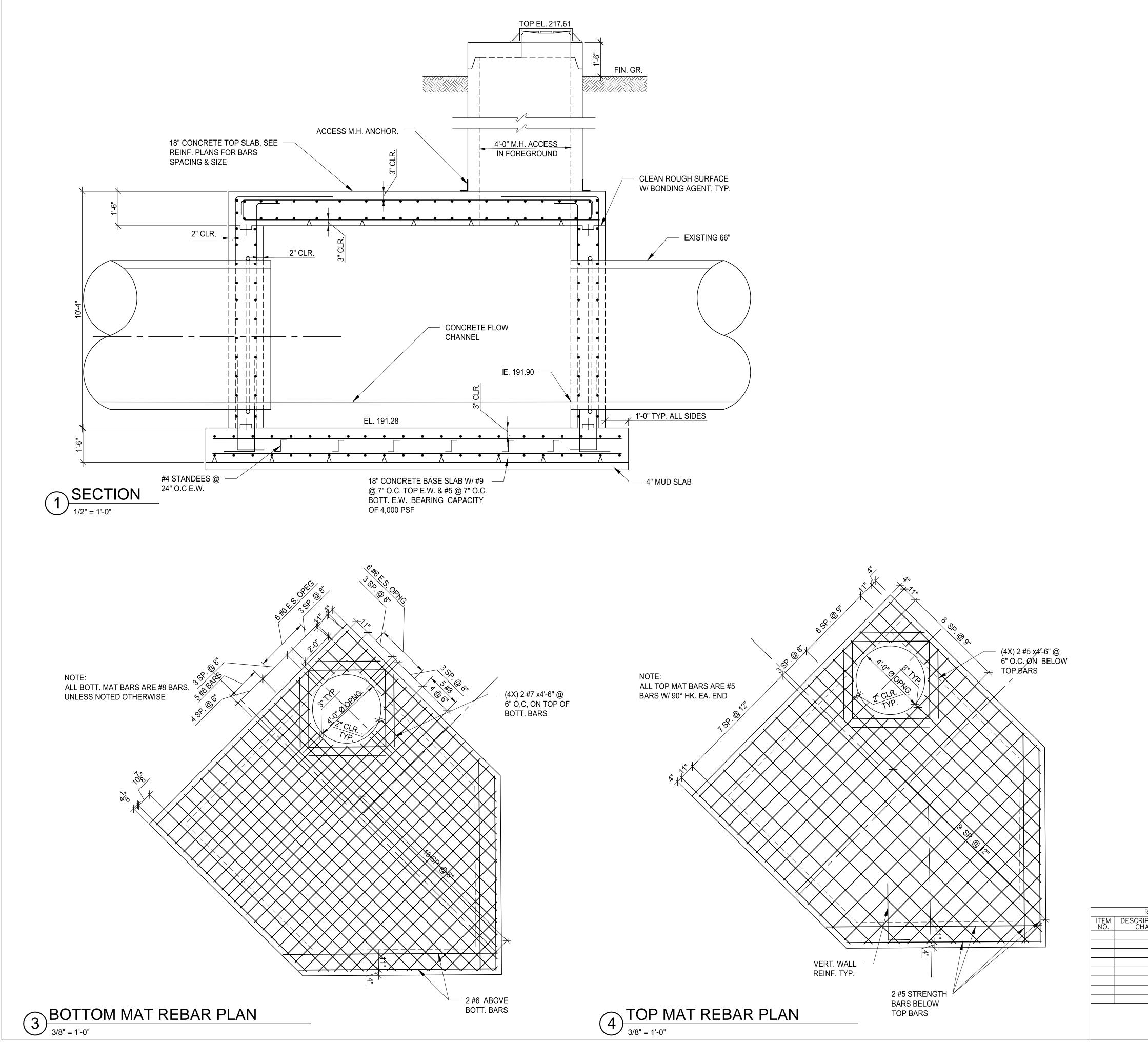




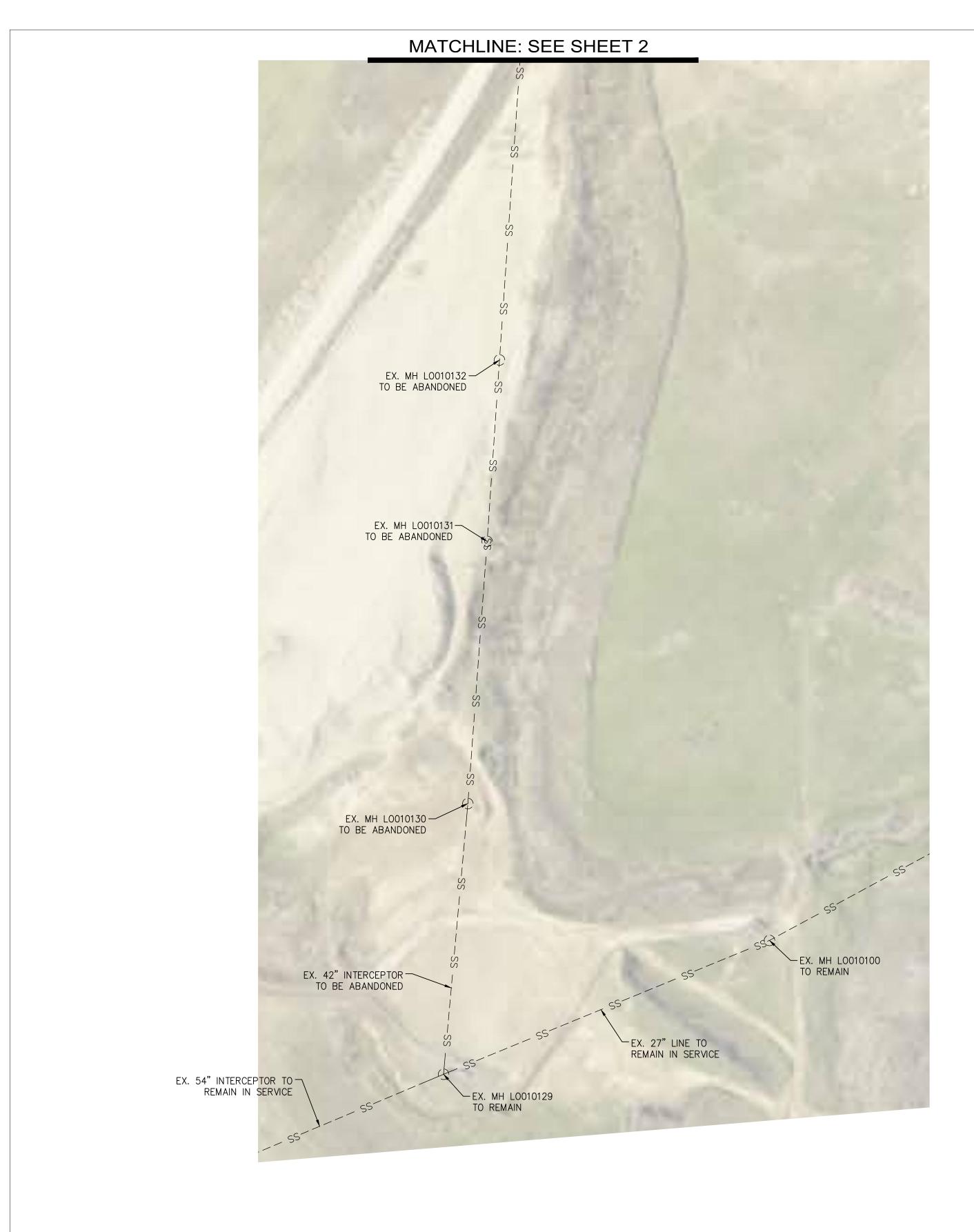
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	#7 @ 8" O.C REINF.	. HORZ. I.F.
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		#7 @ 7" O.C. VERT. I.F. W/ #8 @ 7" O.C. VERT. DWLS I.F.
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	07 10 MMERC 00	54" LOOSAHATCHIE INTERCEPTOR LOCATION: HIGHWAY 51 & NORTH WATKINS STREET
		SURVEY: FISHER & ARNOLD, INC. DATE: 01/2018 PROJECT NO: A10685 DESIGN BY: TAI DATE: 3/26/18 SCALE: DRAWN BY: TAI DATE: 3/26/18 DATE:
LOOSAHATCHIE SEW DEVELOPER: <u>5</u> ENGINEER: <u>FISHER &</u>	SARP10	APPROVED DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE
		DATE CITY ENGINEER DATE CITY ENGINEER DATE PLAN SET SHEET: 21 OF 54

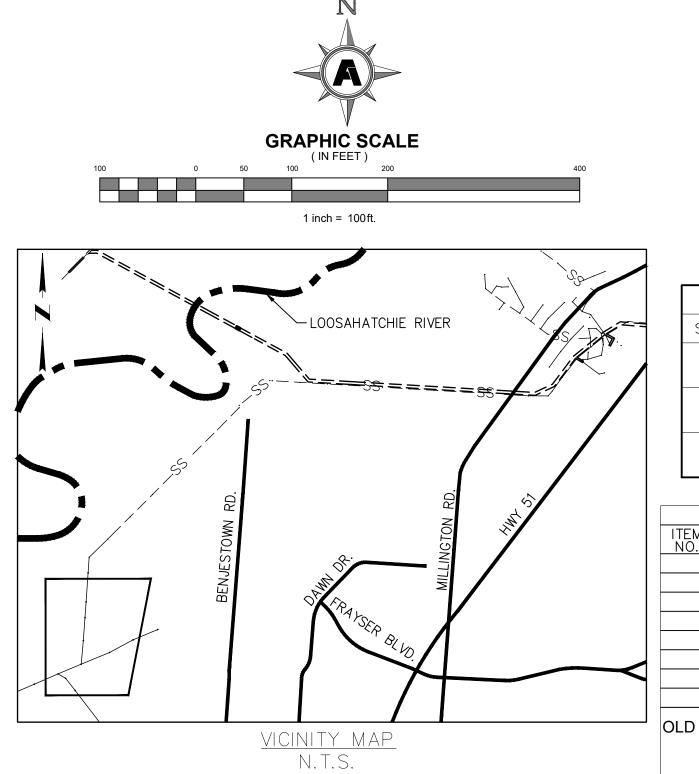






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	Jomn 2/13/19	54" LOOSAHATCHIE INTERCEPTOR
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	OF TENNIS	SURVEY: FISHER & ARNOLD, INC.DATE: 01/2018PROJECT NO: A10685DESIGN BY: TAIDATE: 3/26/18SCALE:DRAWN BY: TAIDATE: 3/26/18DATE:
LOOSAHATCHIE SEW	/ER DIVERSION	APPROVED
DEVELOPER:	SARP10	
ENGINEER: <u>FISHER 8</u>	ARNOLD, INC.	DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE
		PLAN SET SHEET: 24 OF 54





51	RUCIURE	DEPTH	LUCATIO	IN		
L	0010132	37.78	N: 347590.8 E: 759246.2		\bullet	- <u>CITY BENCHMARK:</u> PROJECT BENCHMARK IS BM # 975; SW CORNER IN SIDEWALK AT THE
L	0010131	36.92	N: 347316.9 E: 759227.6			NORTHEAST CORNER OF THE VIETNAM MEMORIAL 2.2' E OF EDGE OF ASPHALT PARKING LOT., 0.6' N OF N. EDGE OF BRICK & PEA GRAVEL WALK AROUND MONUMENT. ELEV.=233.46.
L(010130	30.80	N: 346921.0 E: 759198.46			FLOOD NOTE: ACCORDING TO FEMA FLOOD PANEL 47157C0260F, WITH AN EFFECTIVE
	RF	VISION				DATE OF SEPTEMBER 28, 2007, SIGNIFICANT PORTIONS OF THIS PROJECT AREA LIE WITHIN THE 100 YR FLOOD ZONE. FLOOD ELEV=234.00.
TEM	DESCRIPT	ION OF	APPROVAL		WEREY W.	SEWER BASIN: LO-01 SHEET 1 OF 4
١0.	CHAN	IGE	DATE	1	44 STERED ENGIN O	DIVISION OF ENGINEERING
				1111		OLD LOOSAHATCHIE INTERCEPTOR
						SEWER ABANDONMENT PLAN
				11	77. NO 10456 55 1 9	LOCATION: HIGHWAY 51 & NORTH WATKINS STREET
					OF TENNE 3/26	SURVEY: FISHER & ARNOLD, INC. DATE: 01/2018 PROJECT NO: A10685 DESIGN BY: NSK DATE: 06/2018 SCALE: 1"= 100'H DRAWN BY: NSK DATE: 06/2018 DATE: 03.25.2019
_D L(CHIE SAI	NITARY SEW	/ER IN	TERCEPTOR DIVERSION	
			EVELOPER: S			
			ER: <u>FISHER &</u>		_	DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

				8.	THE CONTRACTO	R SHALL PROVIDE ADEQUATE AN	D EFFECTIVE EROSION CONTROL AS
	STRUCTURE	ABAND	ONMENT TABL	_E	NECESSARY TO F ADJACENT PROPI		(ISTING DRAINAGE SYSTEM AND/OR
	STRUCTURE	DEPTH	LOCATIO	N			
	L0010132	37.78	N: 347590.8 E: 759246.2		\bullet		975; SW CORNER IN SIDEWALK AT
	LO010131	36.92	N: 347316.9 E: 759227.6				'IETNAM MEMORIAL 2.2' E OF EDGE C N OF N. EDGE OF BRICK & PEA GRA EV.=233.46.
	L0010130	30.80	N: 346921.0 E: 759198.4				ANEL 47157C0260F, WITH AN EFFECT
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7. THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO

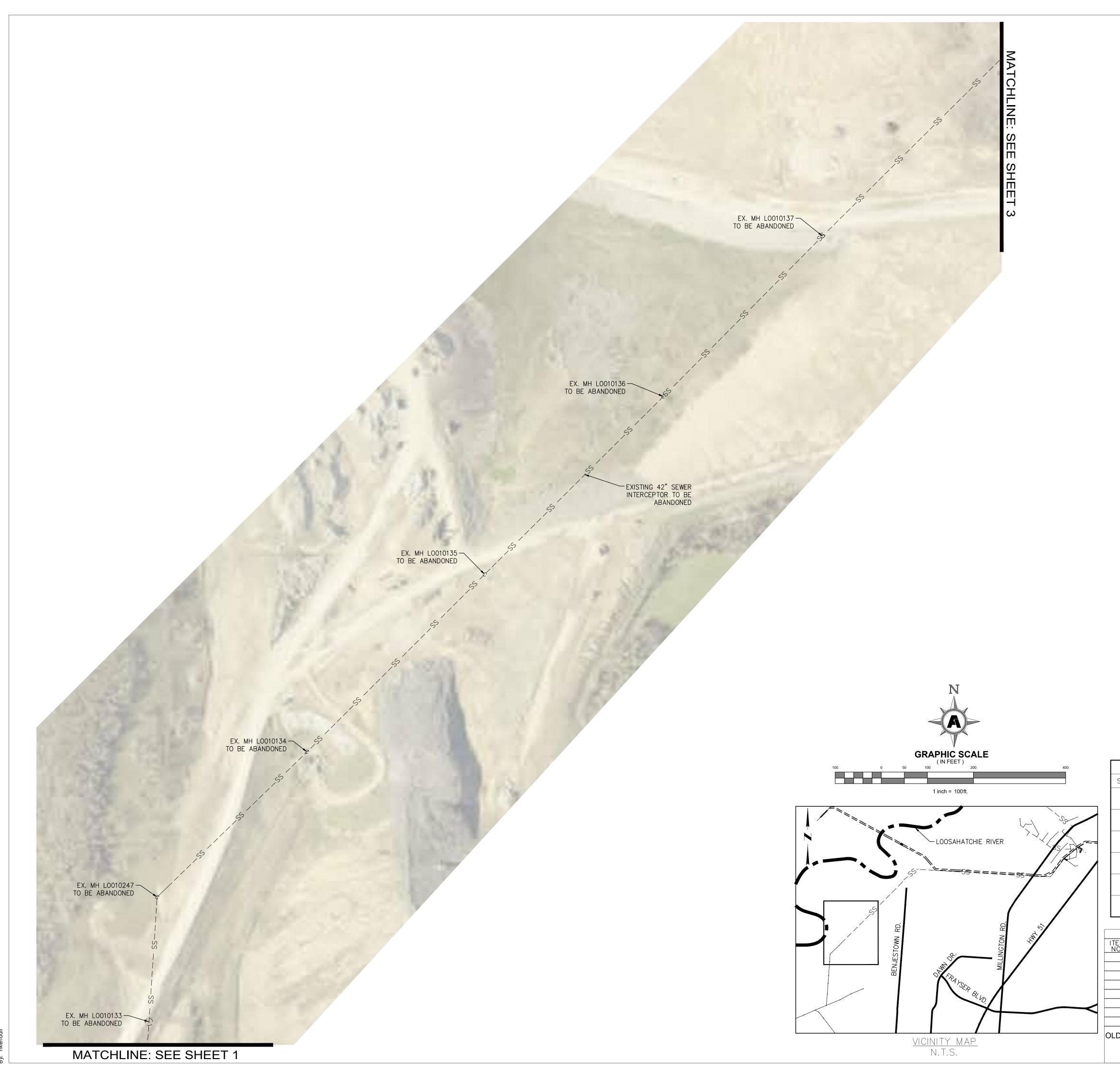
PLAN SET SHEET: 25 OF 54

6. THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.

RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS..

- 5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
- 4. CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT 729-2462 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- 3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- 2. CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- 1. LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATION OF EXISTING UTILITIES INVOLVING M.L.G. & W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 529-8025.

SANITARY SEWER NOTES:



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STRUCTUR	E ABANDO	ONMENT TABLE	6.		DR SHALL VERIFY EXISTING DATA TO THE ENGINEER.	AND REPORT	ANY SIGNIFIC	ANT
STRUCTURE	DEPTH	LOCATION	7					
L0010137	36.29	N: 349799.260 E: 760742.240	0	YARDS FOR THE	EMPHIS SHALL HAVE INGRESS/E0 E PURPOSE OF MAINTAINING ALL FOR THE MAINTENANCE OF SAIL	PUBLIC SEWE	R LINES AND	SHALL BEAR NO
LO010136	30.70	N: 349451.180 E: 760396.990	U. U.	NECESSARY TO	OR SHALL PROVIDE ADEQUATE A PREVENT ANY SITUATION INTO I			
L0010135	46.32	N: 349065.060 E: 760009.110						
L0010134	30.44	N: 348679.760 E: 759623.690		•	- <u>CITY BENCHMARK:</u> PROJECT BENCHMARK IS BM # NORTHEAST CORNER OF THE N			
L0010247	27.64	N: 348364.590 E: 759298.520			ASPHALT PARKING LOT., 0.6' WALK AROUND MONUMENT. EL		OF BRICK & I	PEA GRAVEL
L0010133	33.85	N: 348093.820 E: 759280.800			FLOOD NOTE: ACCORDING TO FEMA FLOOD P DATE OF SEPTEMBER 28, 2007	7, SIGNIFICANT	PORTIONS OF	THIS PROJECT
	REVISION				AREA LIE WITHIN THE 100 YR	FLOOD ZONE.	FLOOD ELEV=2	234.00.
	PTION OF	APPROVAL DATE	ILLEREY	W	SEWER BASIN: LO-01			SHEET 2 OF 4
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			A Lonieur		OLD LOOSAHA	TCHIE	INTERC	EPTOR
			Z ())		SEWER AB	ANDON	MENT P	PLAN
			NO 10	4560.55	LOCATION: HIGHWA	Y 51 & NOR	TH WATKINS	STREET
			OF TE	ENNY 26/1	SURVEY: FISHER & ARNOLD, IN DESIGN BY: NSK DRAWN BY: NSK	DATE: 06/	2018 PROJEC 2018 SCALE: 2018 DATE:	1"= 100'H
) LOOSAHA	TCHIE SA	NITARY SEW	ER INTERCEPTO	OR DIVERSION		APPROVED		
		DEVELOPER: S						
	ENGINE	EER: <u>FISHER &</u>	ARNOLD, INC.		DEPUTY CITY ENGINEER	DATE	CITY ENGINE	ER DATE

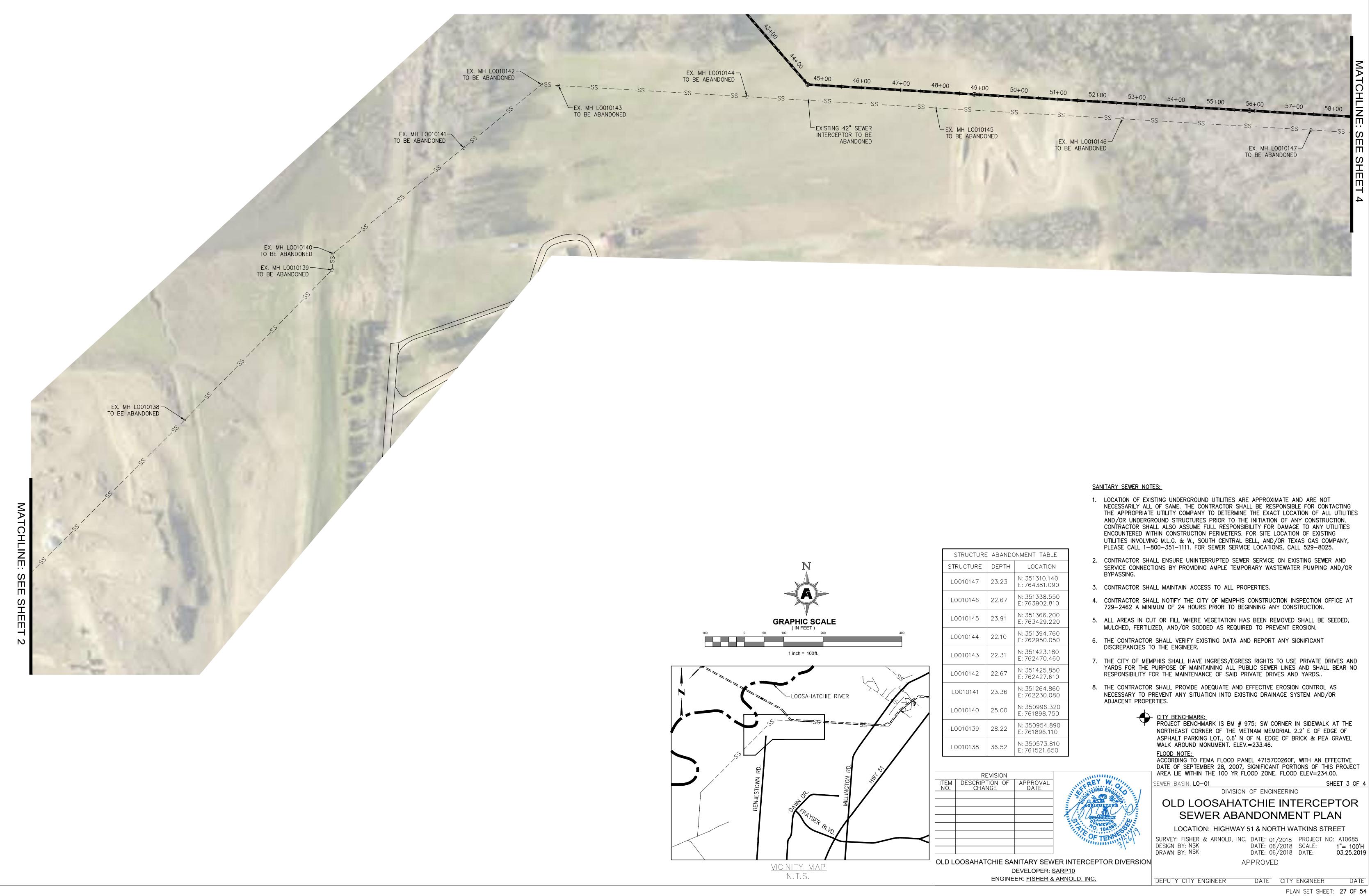
PLAN SET SHEET: 26 OF 54

SANITARY SEWER NOTES:

- 1. LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATION OF EXISTING UTILITIES INVOLVING M.L.G. & W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 529-8025.
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- 3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.

- MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.

- 4. CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT 729-2462 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- 5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED,



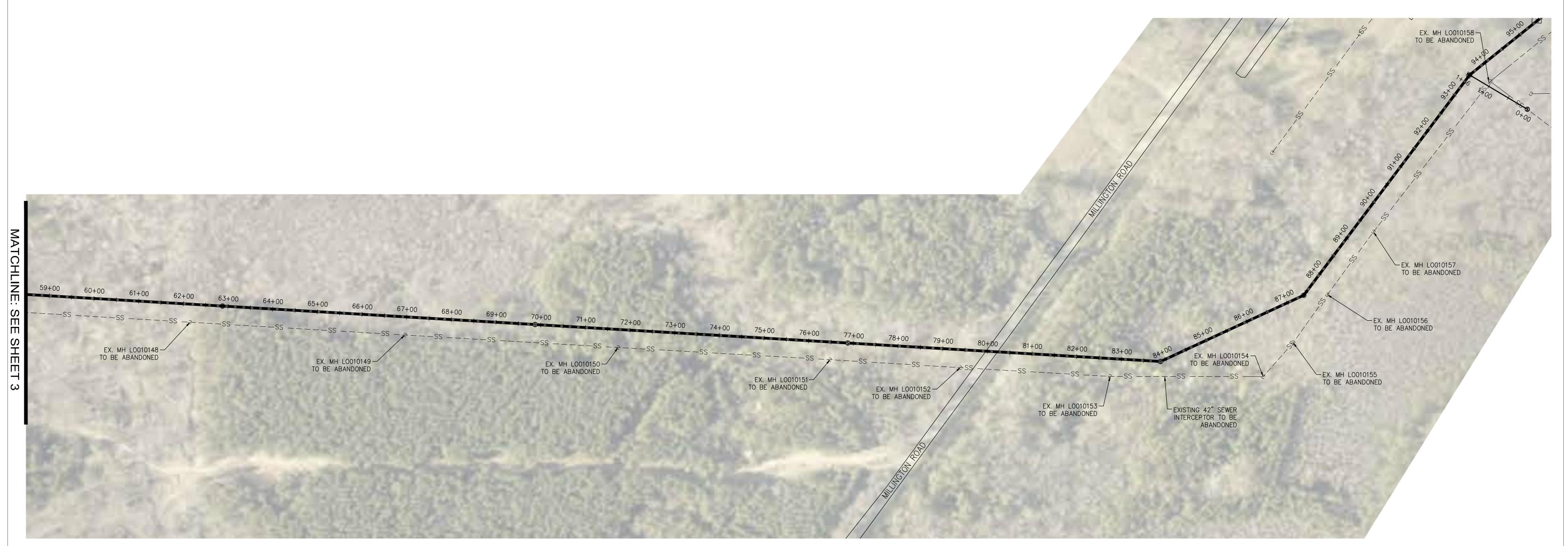
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- NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES UTILITIES INVOLVING M.L.G. & W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY,
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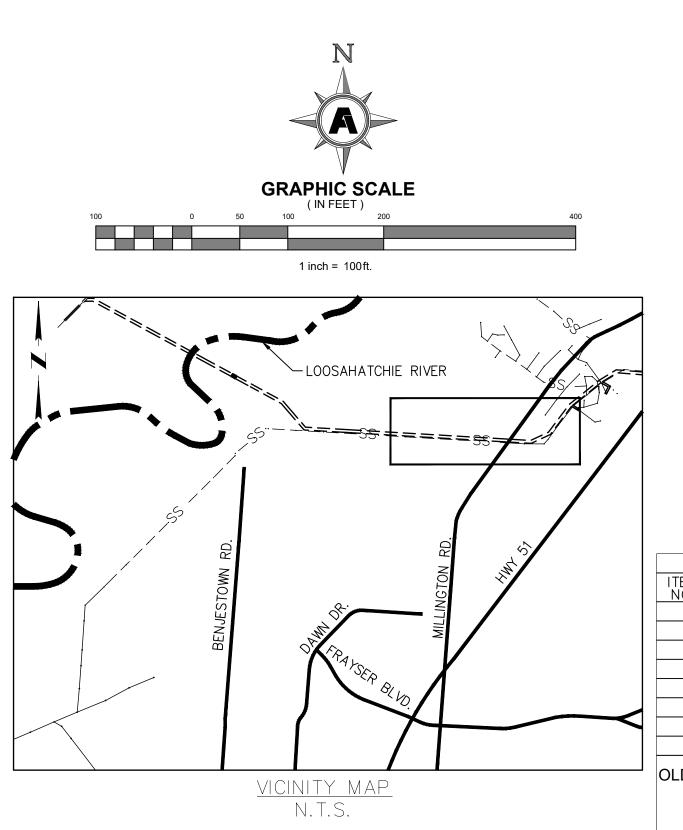
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			OLD LOOSAHATCHIE INTERCEPTOR SEWER ABANDONMENT PLAN	2	
	DAIL	LUX STERED ENGL	DIVISION OF ENGINEERING		
)F	APPROVAL DATE	THEREY W. O	SEWER BASIN: LO-01 SHEET 3	OF	
N		SNN11111	ACCORDING TO FEMA FLOOD PANEL 47157C0260F, WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2007, SIGNIFICANT PORTIONS OF THIS PROJE AREA LIE WITHIN THE 100 YR FLOOD ZONE. FLOOD ELEV=234.00.		
2	N: 350573.810 E: 761521.650		WALK AROUND MONUMENT. ELEV.=233.46. FLOOD NOTE:	AROUND MONUMENT. ELEV.=233.46.	
2	N: 350954.89 E: 761896.110		PROJECT BENCHMARK IS BM # 975; SW CORNER IN SIDEWALK AT THE NORTHEAST CORNER OF THE VIETNAM MEMORIAL 2.2' E OF EDGE OF ASPHALT PARKING LOT., 0.6' N OF N. EDGE OF BRICK & PEA GRAVEL		
С	E: 761898.750		– CITY BENCHMARK:		

03.25.2019





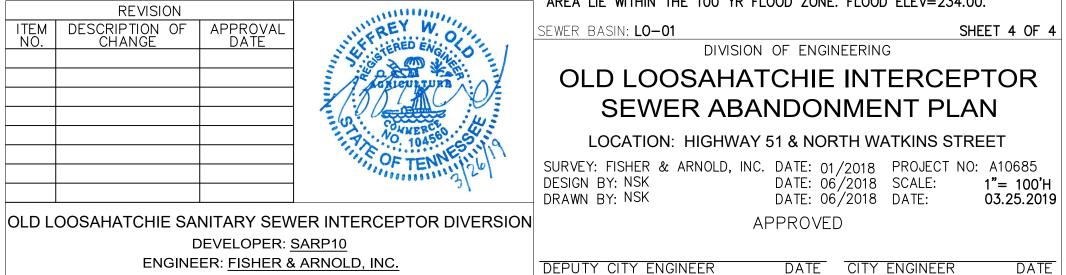


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- 8. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SITUATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

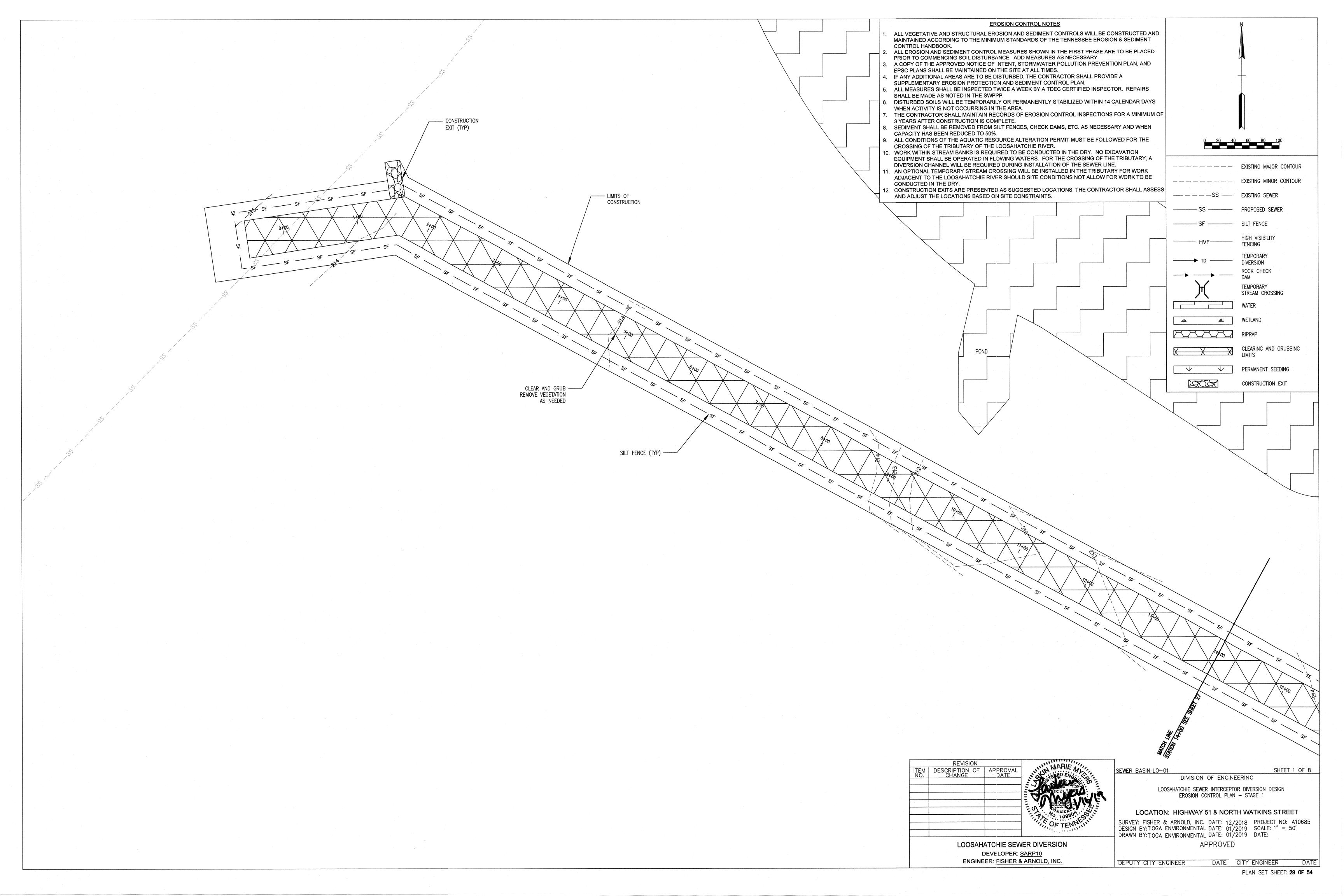
CITY BENCHMARK: PROJECT BENCHMARK IS BM # 975; SW CORNER IN SIDEWALK AT THE NORTHEAST CORNER OF THE VIETNAM MEMORIAL 2.2' E OF EDGE OF ASPHALT PARKING LOT., 0.6' N OF N. EDGE OF BRICK & PEA GRAVEL WALK AROUND MONUMENT. ELEV.=233.46.

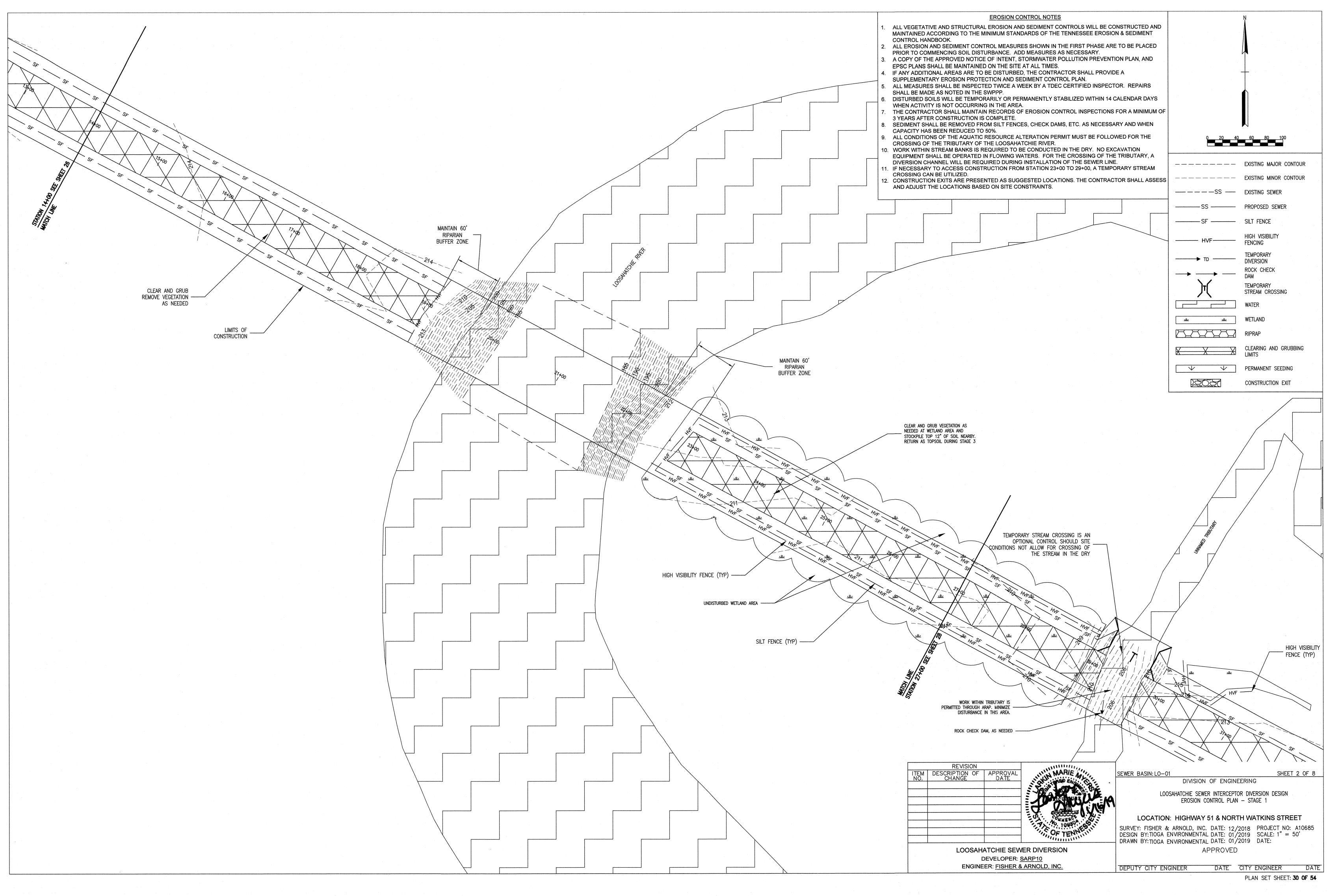
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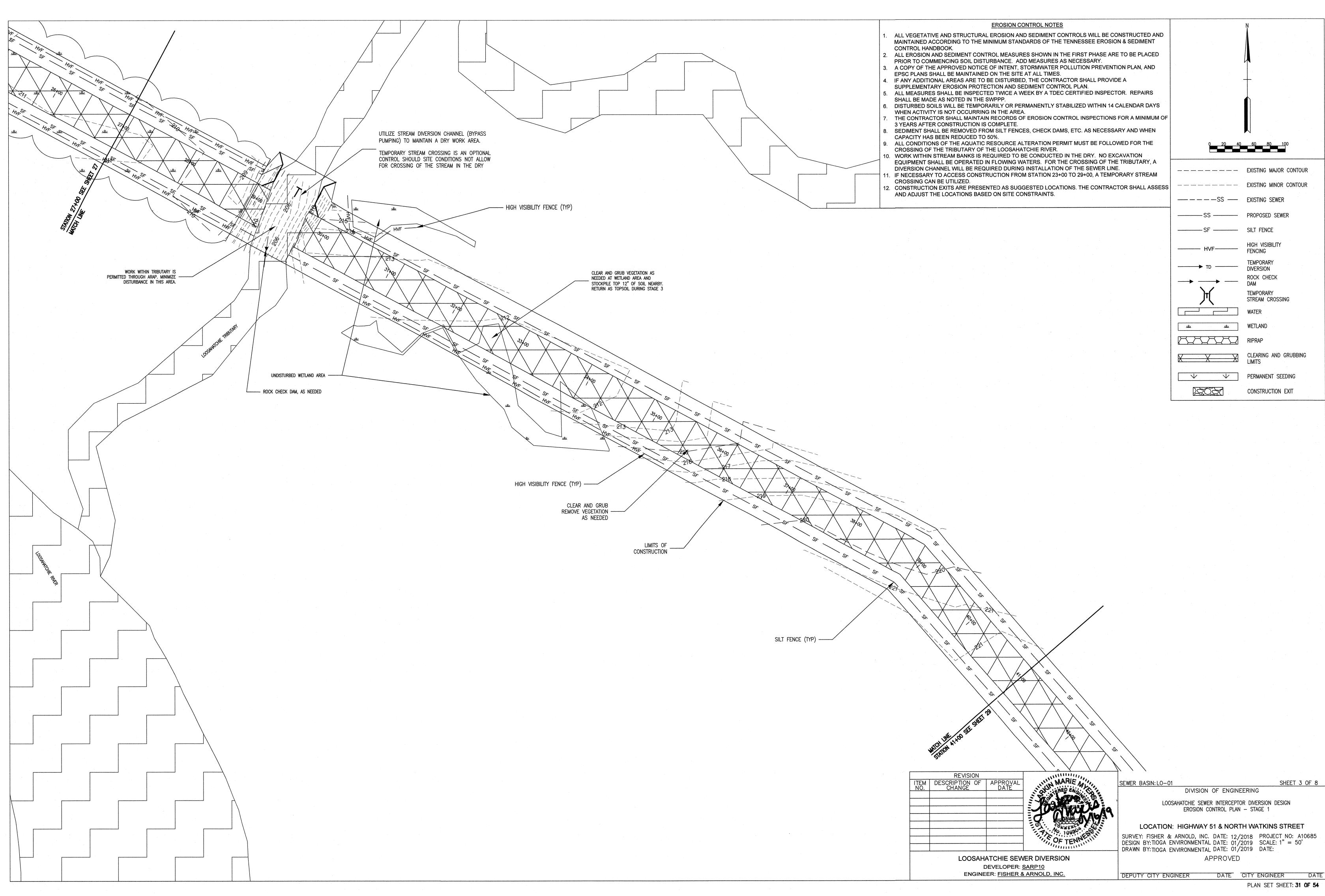


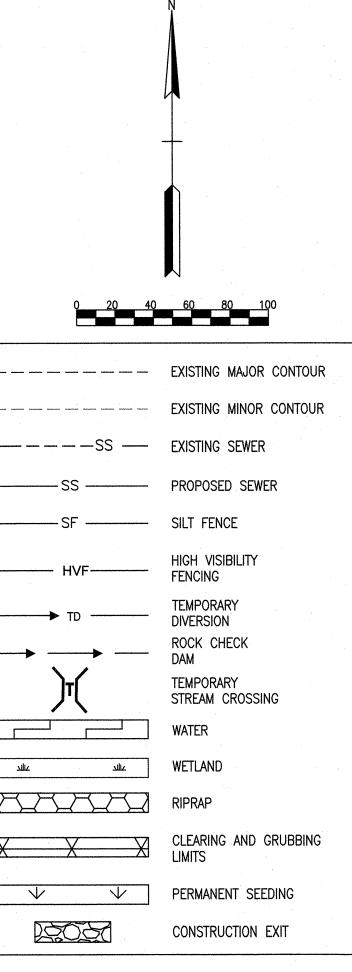
STRUCTURE ABANDONMENT TABLE				
STRUCTURE	DEPTH	LOCATION		
LO010158	31.40	N: 351820.170 E: 767757.830		
L0010157	30.63	N: 351483.960 E: 767496.800		
L0010154	30.33	N: 351160.550 E: 767250.310		
L0010153	27.08	N: 351160.980 E: 766908.180		
L0010152	29.66	N: 351180.580 E: 766573.530		
LO010151	27.98	N: 351198.500 E: 766282.350		
L0010150	27.60	N: 351225.690 E: 765808.620		
LO010149	27.92	N: 351253.450 E: 765331.980		
L0010148	24.15	N: 351282.110 E: 764851.990		
LO010156	17.38	N: 351343.616 E: 767393.715		
L0010155	17.41	N: 351236.410 E: 767317.371		

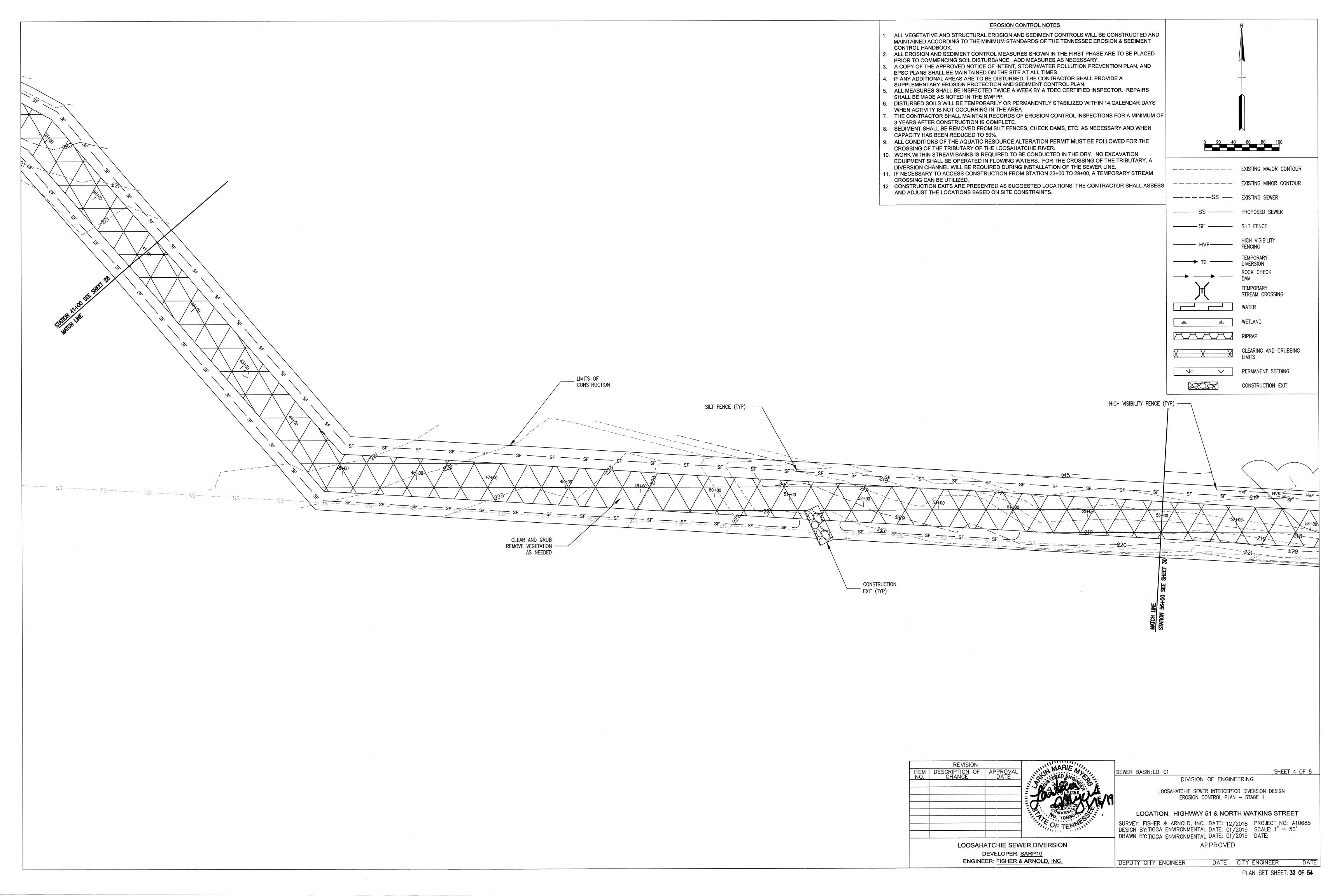
ENGINEER: FISHER & ARNOLD, INC.

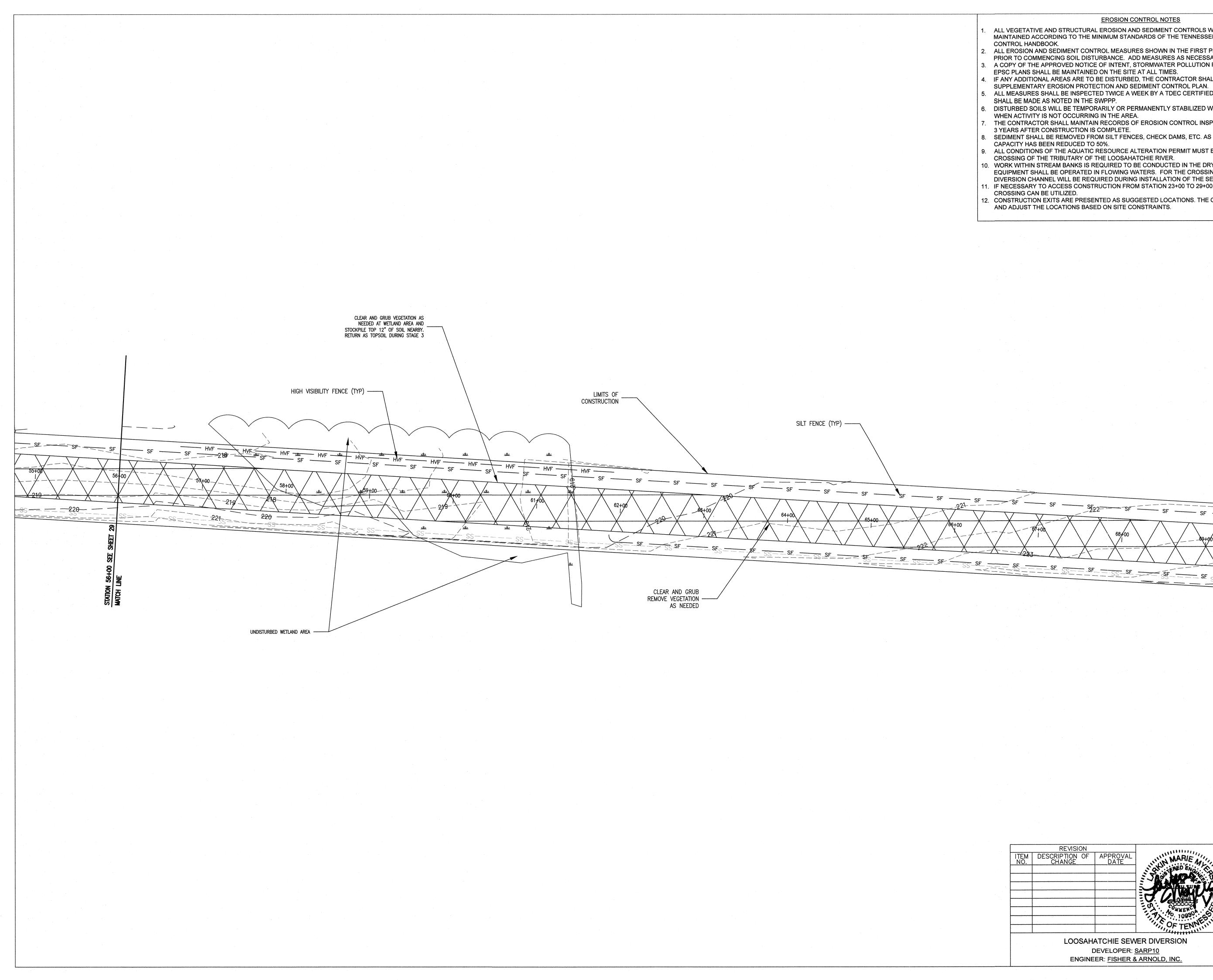












EROSION CONTROL NOTES

ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROLS WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS OF THE TENNESSEE EROSION & SEDIMENT

ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN IN THE FIRST PHASE ARE TO BE PLACED PRIOR TO COMMENCING SOIL DISTURBANCE. ADD MEASURES AS NECESSARY. A COPY OF THE APPROVED NOTICE OF INTENT, STORMWATER POLLUTION PREVENTION PLAN, AND EPSC PLANS SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

IF ANY ADDITIONAL AREAS ARE TO BE DISTURBED, THE CONTRACTOR SHALL PROVIDE A

SUPPLEMENTARY EROSION PROTECTION AND SEDIMENT CONTROL PLAN. ALL MEASURES SHALL BE INSPECTED TWICE A WEEK BY A TDEC CERTIFIED INSPECTOR. REPAIRS

DISTURBED SOILS WILL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 14 CALENDAR DAYS WHEN ACTIVITY IS NOT OCCURRING IN THE AREA.

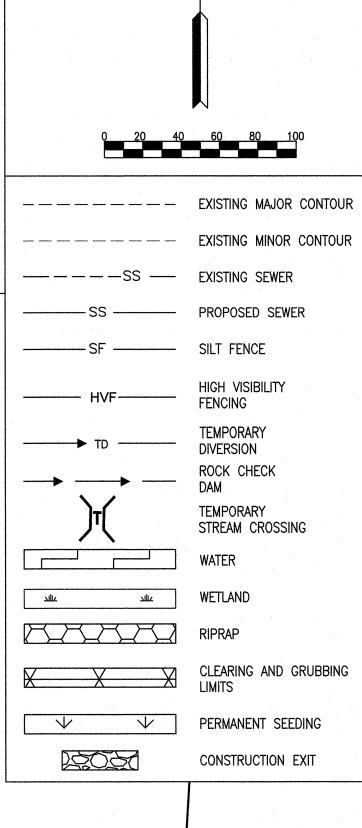
THE CONTRACTOR SHALL MAINTAIN RECORDS OF EROSION CONTROL INSPECTIONS FOR A MINIMUM OF 3 YEARS AFTER CONSTRUCTION IS COMPLETE.

SEDIMENT SHALL BE REMOVED FROM SILT FENCES, CHECK DAMS, ETC. AS NECESSARY AND WHEN CAPACITY HAS BEEN REDUCED TO 50%.

ALL CONDITIONS OF THE AQUATIC RESOURCE ALTERATION PERMIT MUST BE FOLLOWED FOR THE CROSSING OF THE TRIBUTARY OF THE LOOSAHATCHIE RIVER.

10. WORK WITHIN STREAM BANKS IS REQUIRED TO BE CONDUCTED IN THE DRY. NO EXCAVATION EQUIPMENT SHALL BE OPERATED IN FLOWING WATERS. FOR THE CROSSING OF THE TRIBUTARY, A DIVERSION CHANNEL WILL BE REQUIRED DURING INSTALLATION OF THE SEWER LINE. 11. IF NECESSARY TO ACCESS CONSTRUCTION FROM STATION 23+00 TO 29+00, A TEMPORARY STREAM

12. CONSTRUCTION EXITS ARE PRESENTED AS SUGGESTED LOCATIONS. THE CONTRACTOR SHALL ASSESS AND ADJUST THE LOCATIONS BASED ON SITE CONSTRAINTS.



REVISION ITEM DESCRIPTION OF APPROVAL NO. CHANGE DATE SHEET 5 OF 8 SEWER BASIN: LO-01 MARIE DIVISION OF ENGINEERING LOOSAHATCHIE SEWER INTERCEPTOR DIVERSION DESIGN EROSION CONTROL PLAN - STAGE 1 LOCATION: HIGHWAY 51 & NORTH WATKINS STREET VANE SURVEY: FISHER & ARNOLD, INC. DATE: 12/2018 PROJECT NO: A10685 DESIGN BY:TIOGA ENVIRONMENTAL DATE: 01/2019 SCALE: 1" = 50' OF TENNE DRAWN BY: TIOGA ENVIRONMENTAL DATE: 01/2019 DATE: LOOSAHATCHIE SEWER DIVERSION APPROVED

> DEVELOPER: SARP10 ENGINEER: FISHER & ARNOLD, INC.

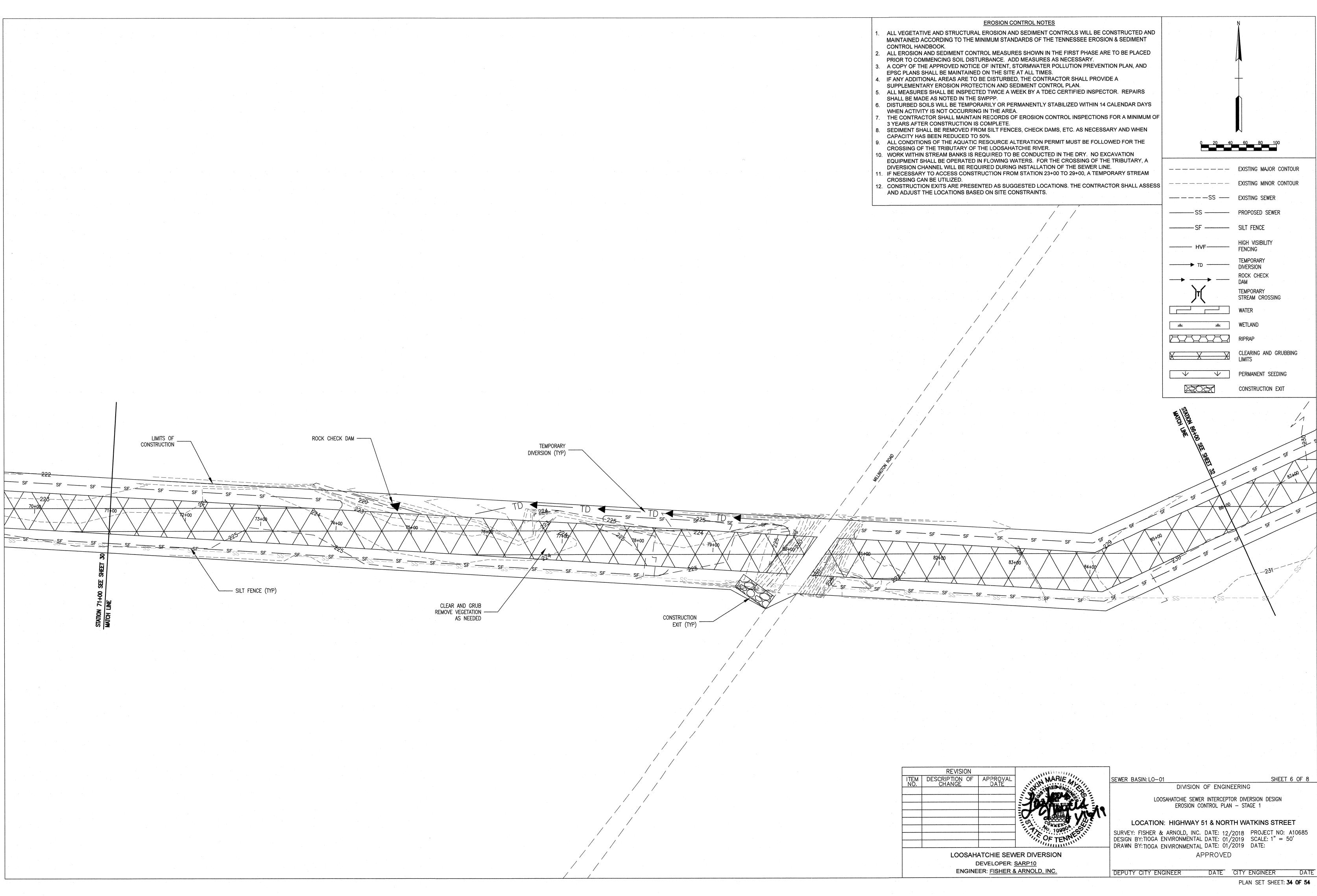
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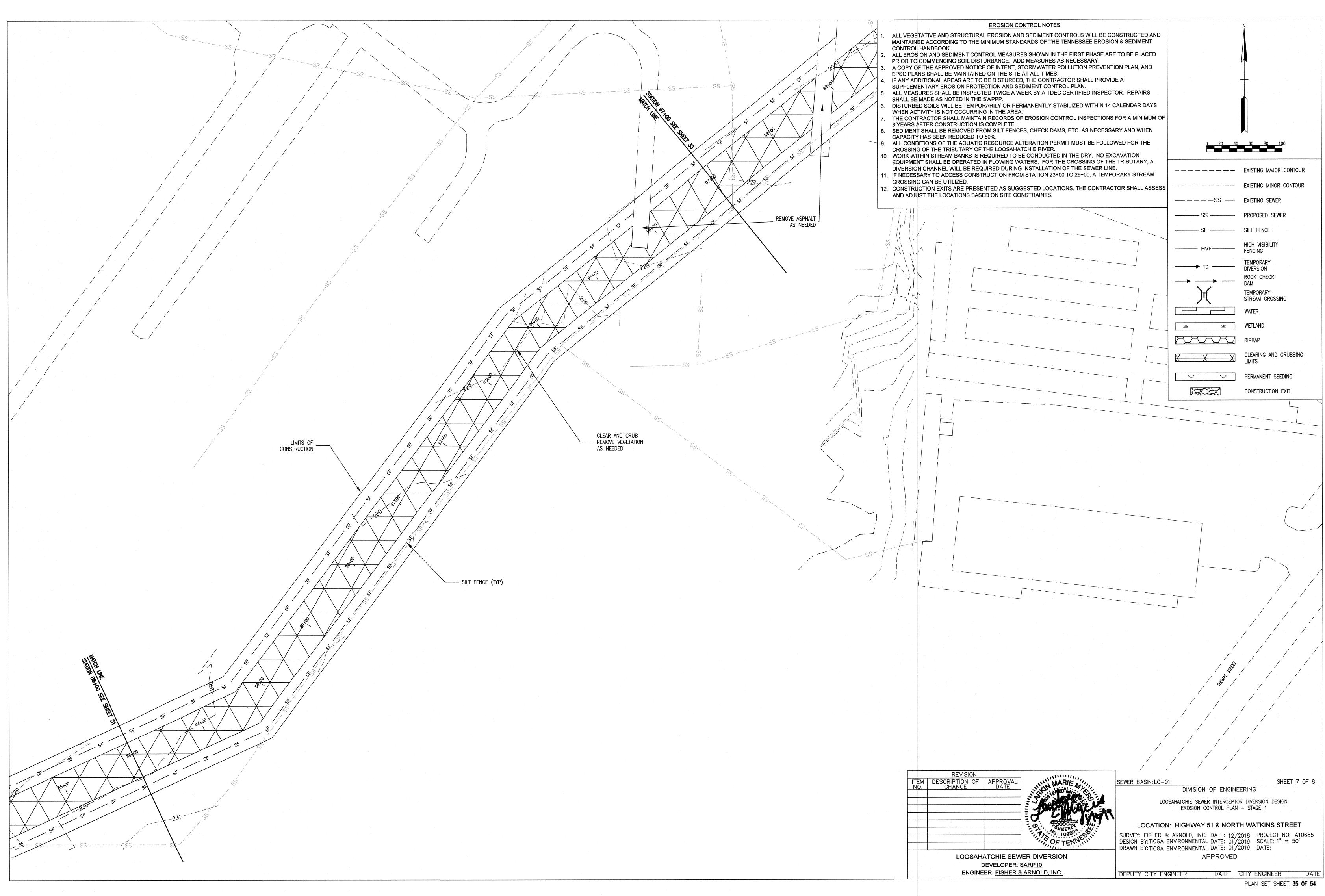
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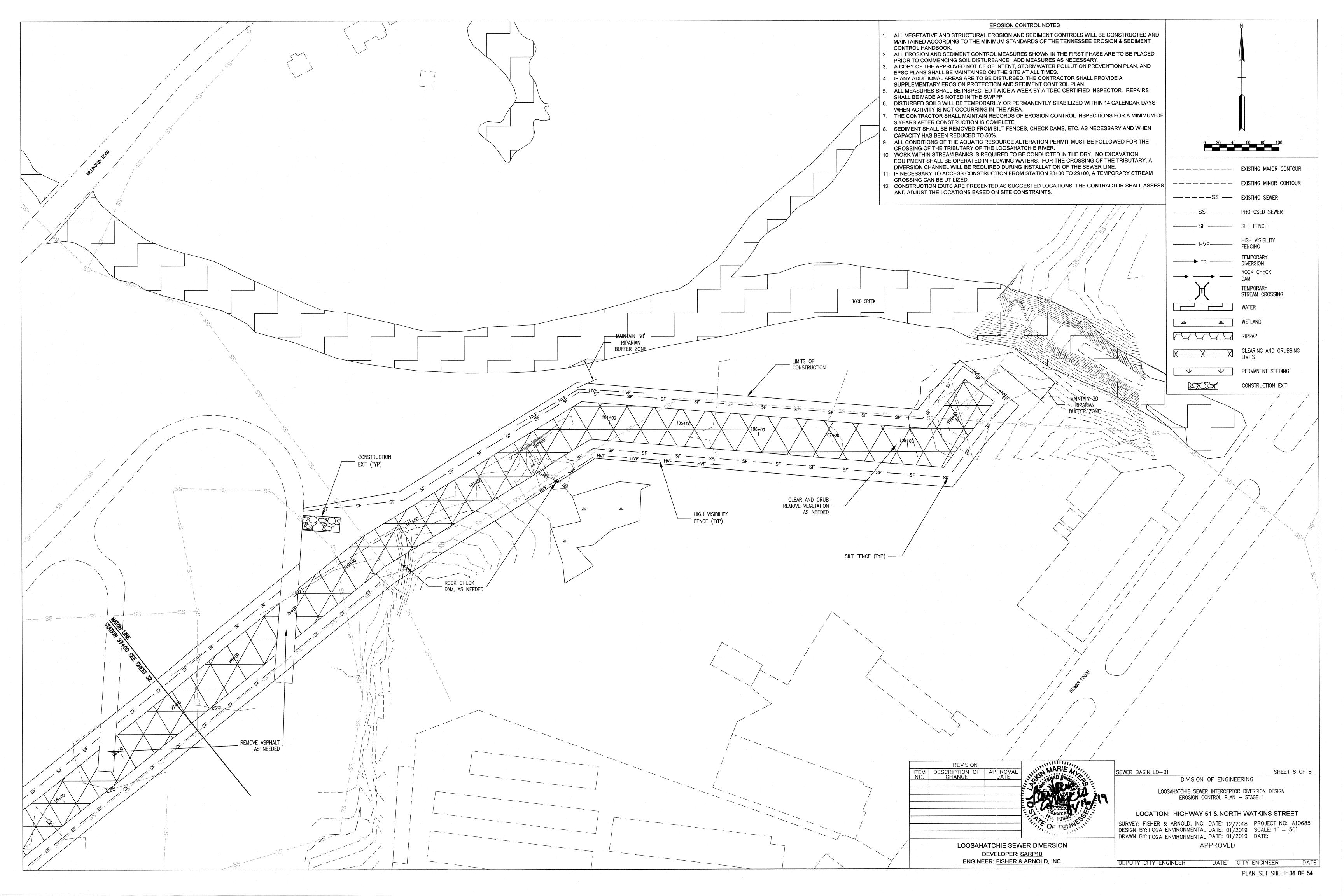
MATCH LINE STATION 71

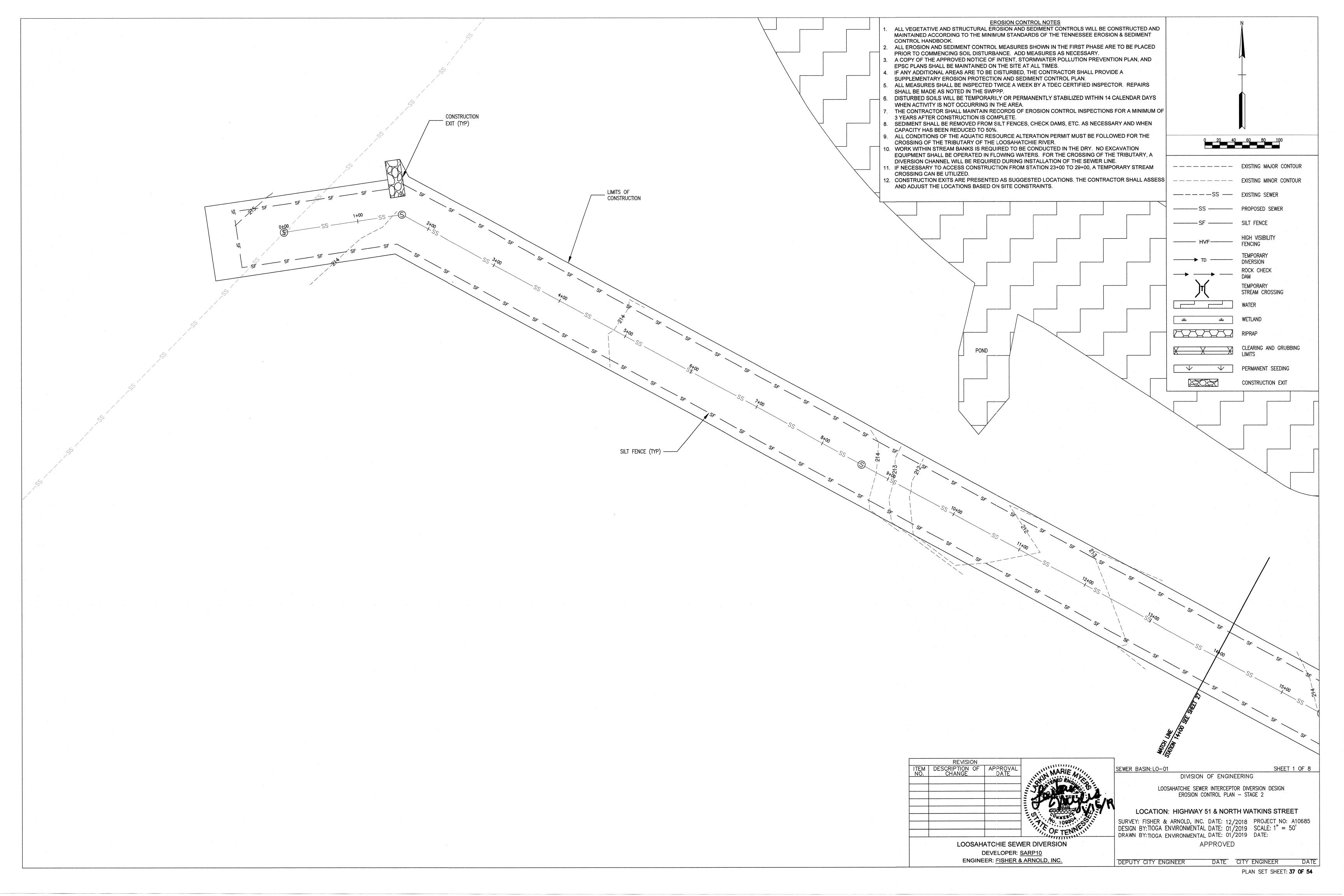
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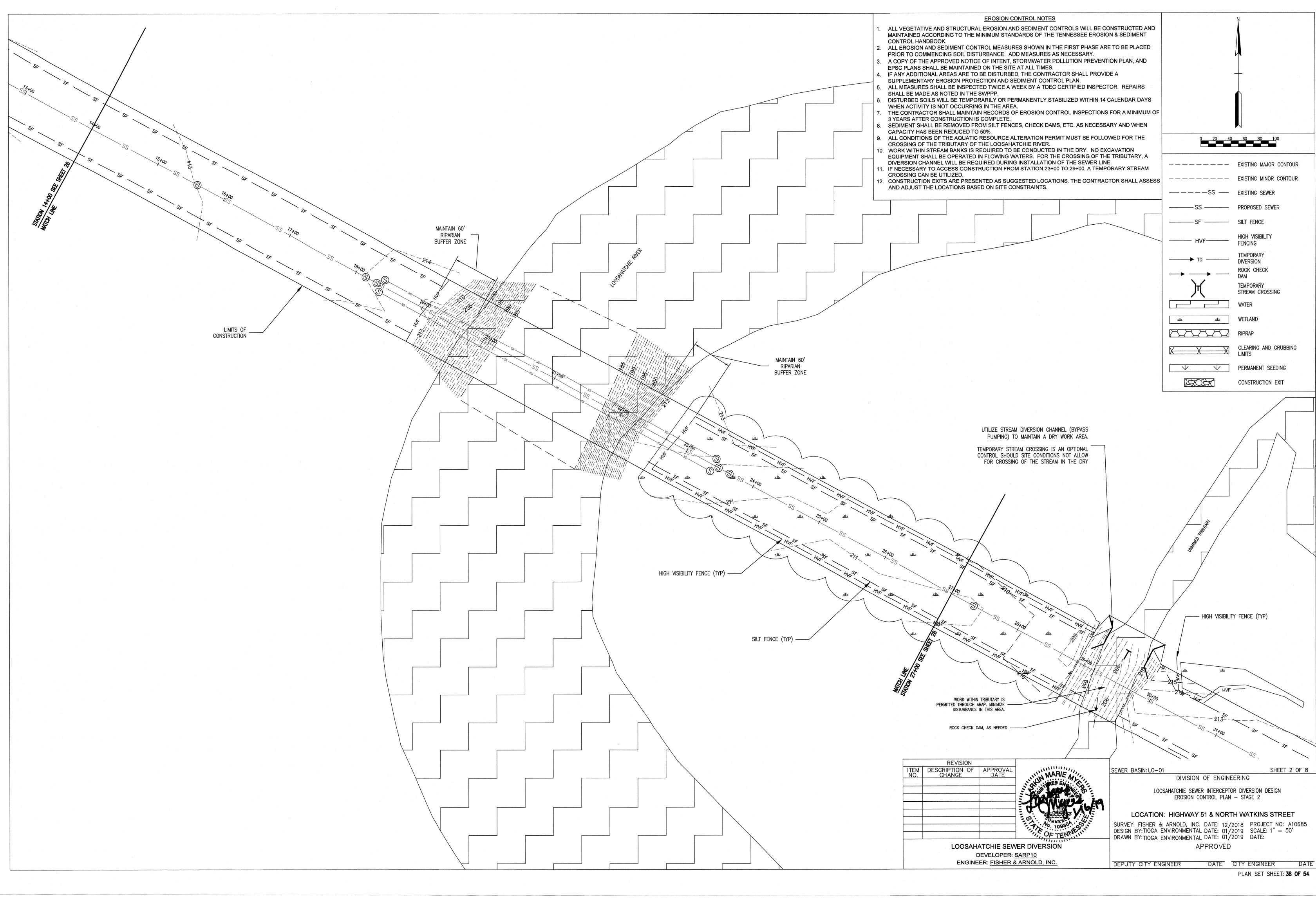
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HIGH VISIBILITY FENCING TEMPORARY DIVERSION ROCK CHECK DAM TEMPORARY STREAM CROSSING WATER

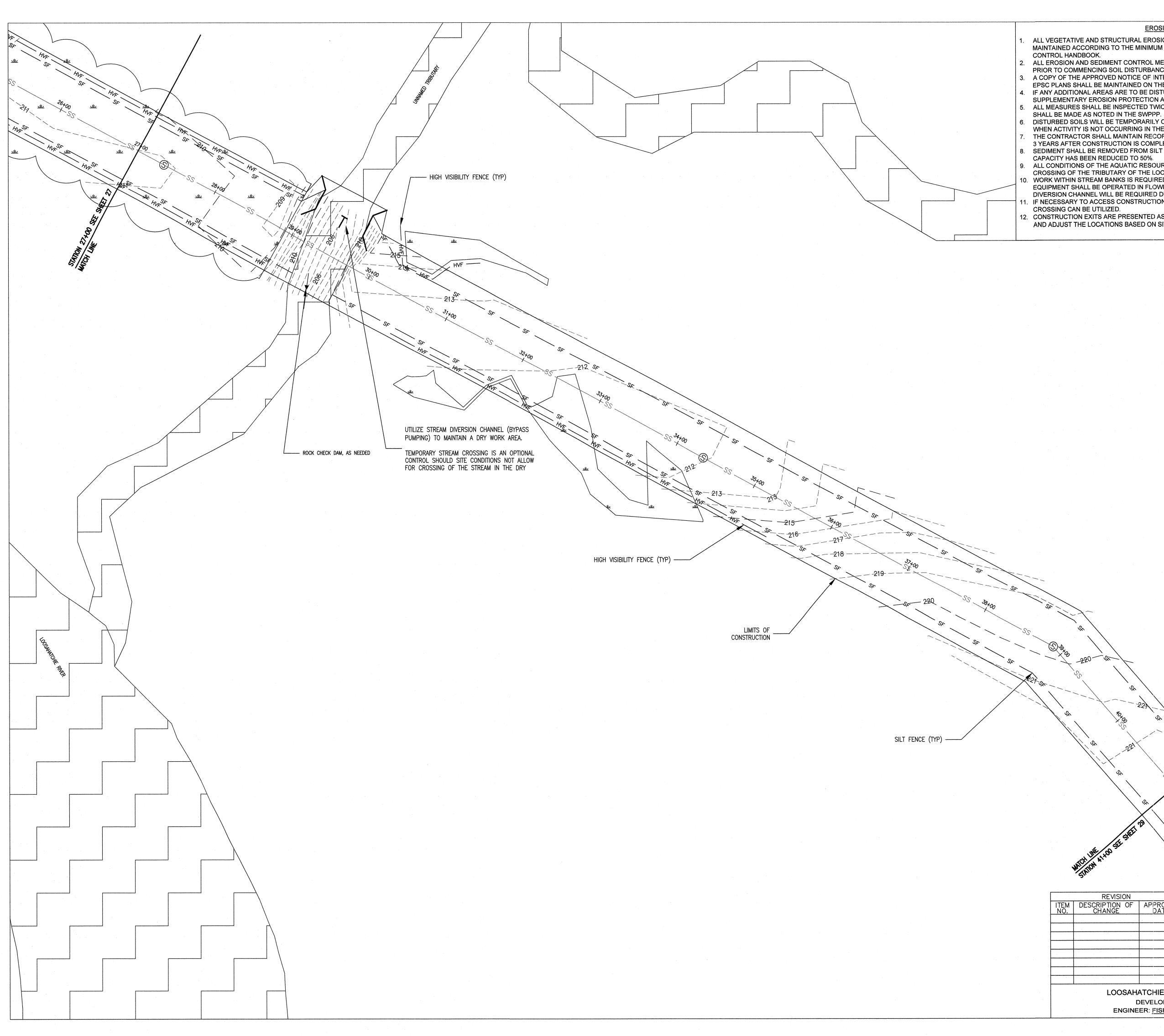
CONSTRUCTION EXIT

SHEET 2 OF 8

LOOSAHATCHIE SEWER INTERCEPTOR DIVERSION DESIGN EROSION CONTROL PLAN - STAGE 2

LOCATION: HIGHWAY 51 & NORTH WATKINS STREET SURVEY: FISHER & ARNOLD, INC. DATE: 12/2018 PROJECT NO: A10685 DESIGN BY:TIOGA ENVIRONMENTAL DATE: 01/2019 SCALE: 1" = 50' DRAWN BY:TIOGA ENVIRONMENTAL DATE: 01/2019 DATE:

PLAN SET SHEET: 38 OF 54



EROSION CONTROL NOTES

ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROLS WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS OF THE TENNESSEE EROSION & SEDIMENT

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DISTURBED SOILS WILL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 14 CALENDAR DAYS WHEN ACTIVITY IS NOT OCCURRING IN THE AREA.

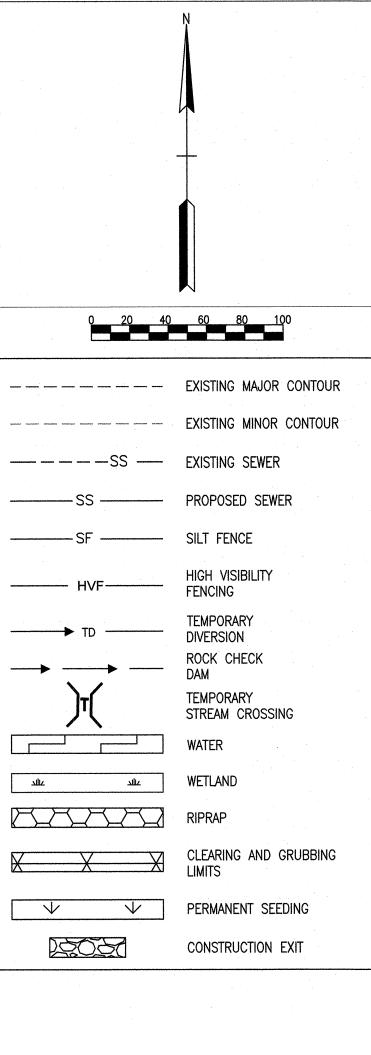
THE CONTRACTOR SHALL MAINTAIN RECORDS OF EROSION CONTROL INSPECTIONS FOR A MINIMUM OF 3 YEARS AFTER CONSTRUCTION IS COMPLETE.

SEDIMENT SHALL BE REMOVED FROM SILT FENCES, CHECK DAMS, ETC. AS NECESSARY AND WHEN CAPACITY HAS BEEN REDUCED TO 50%.

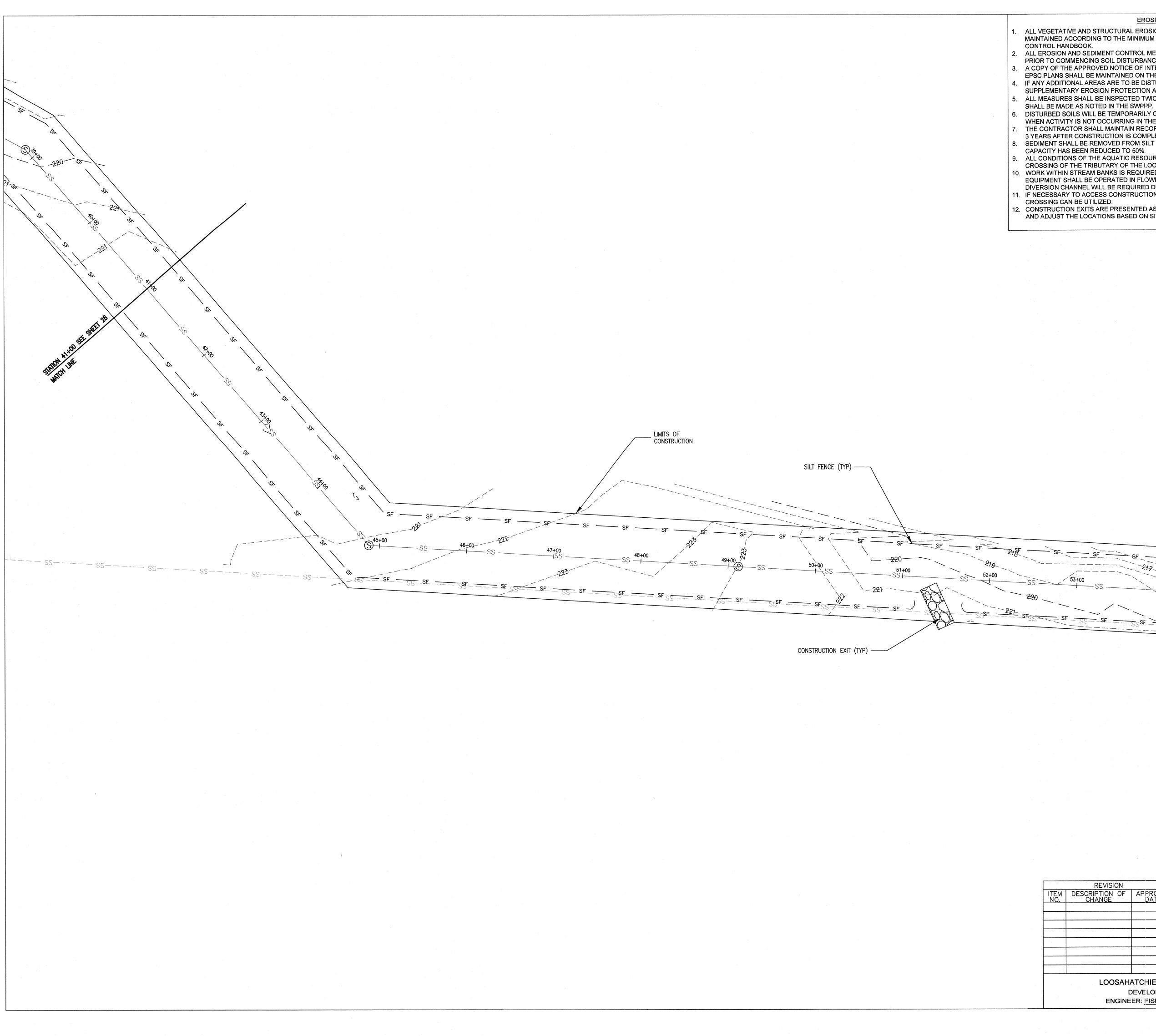
ALL CONDITIONS OF THE AQUATIC RESOURCE ALTERATION PERMIT MUST BE FOLLOWED FOR THE CROSSING OF THE TRIBUTARY OF THE LOOSAHATCHIE RIVER.

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REVISION ITEM DESCRIPTION OF APPROVAL NO. CHANGE DATE MARIEN SEWER BASIN: LO-01 SHEET 3 OF 8 DIVISION OF ENGINEERING LOOSAHATCHIE SEWER INTERCEPTOR DIVERSION DESIGN EROSION CONTROL PLAN - STAGE 2 LOCATION: HIGHWAY 51 & NORTH WATKINS STREET ANER SURVEY: FISHER & ARNOLD, INC. DATE: 12/2018 PROJECT NO: A10685 DESIGN BY:TIOGA ENVIRONMENTAL DATE: 01/2019 SCALE: 1" = 50' DRAWN BY:TIOGA ENVIRONMENTAL DATE: 01/2019 DATE: OF TENNE. APPROVED LOOSAHATCHIE SEWER DIVERSION DEVELOPER: SARP10 ENGINEER: FISHER & ARNOLD, INC. DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE PLAN SET SHEET: 39 OF 54



EROSION CONTROL NOTES

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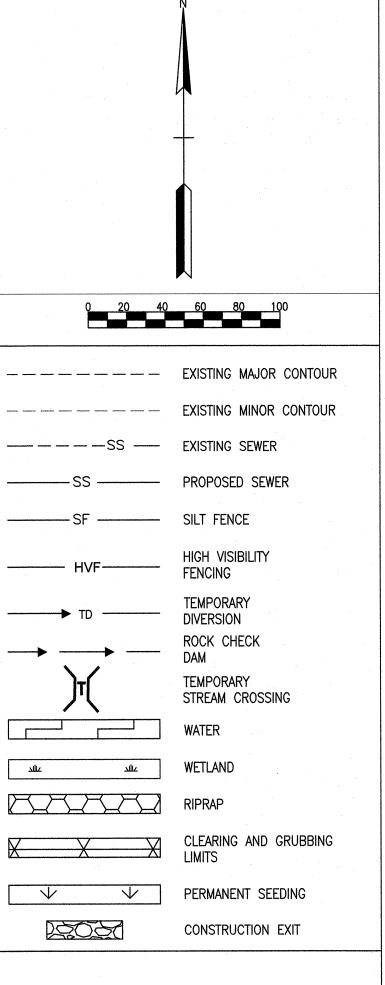
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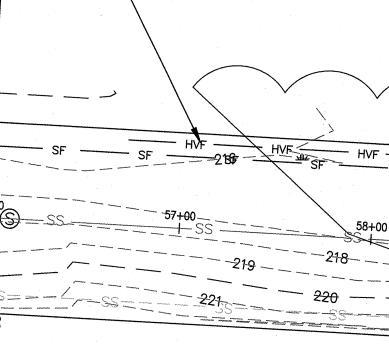
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HIGH VISIBILITY FENCE (TYP)



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DESCRIPTION OF	APPROVAL DATE	AN JAARLE	SEWER BASIN: LO-01	SHEET 4 OF 8
CHANGE	DATE	WAT NO ENGLA SO	DIVISION OF ENGIN	EERING
			LOOSAHATCHIE SEWER INTERCEPTOR DIVERSION DESIGN	
		Chrone Vig 19	EROSION CONTROL PLAN	N – STAGE 2
			LOCATION: HIGHWAY 51 & NOR	TH WATKINS STREET
		OF TENNES	SURVEY: FISHER & ARNOLD, INC. DATE: 12, DESIGN BY:TIOGA ENVIRONMENTAL DATE: 01, DRAWN BY:TIOGA ENVIRONMENTAL DATE: 01,	/2018 PROJECT NO: A10685 /2019 SCALE: 1" = 50' /2019 DATE:
LOOSAHATCHIE SEWER DIVERSION			APPROVED	
DEVELOPER: SARP10				
ENGINEER: FISHER & ARNOLD, INC.			DEPUTY CITY ENGINEER DATE	CITY ENGINEER DATE

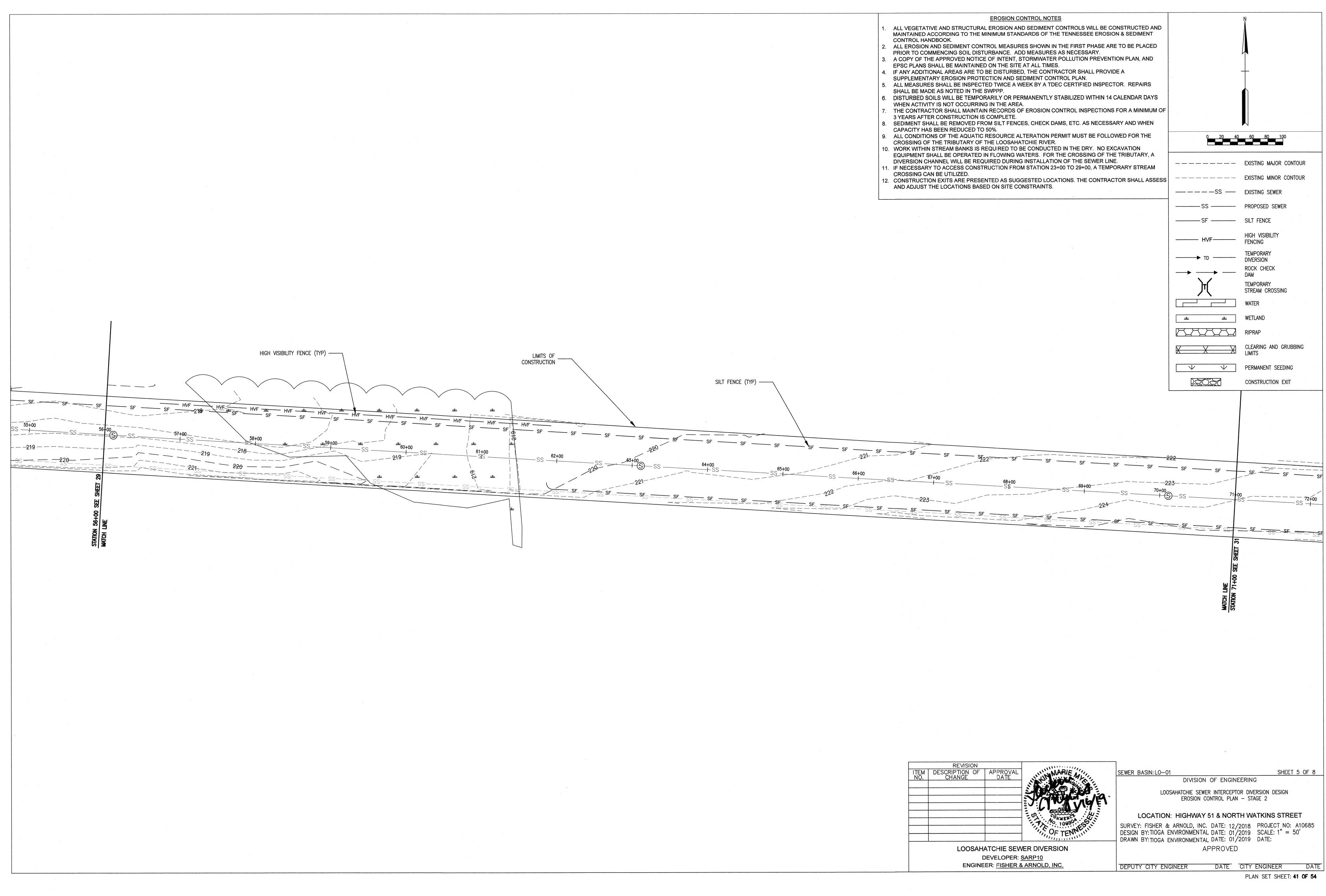
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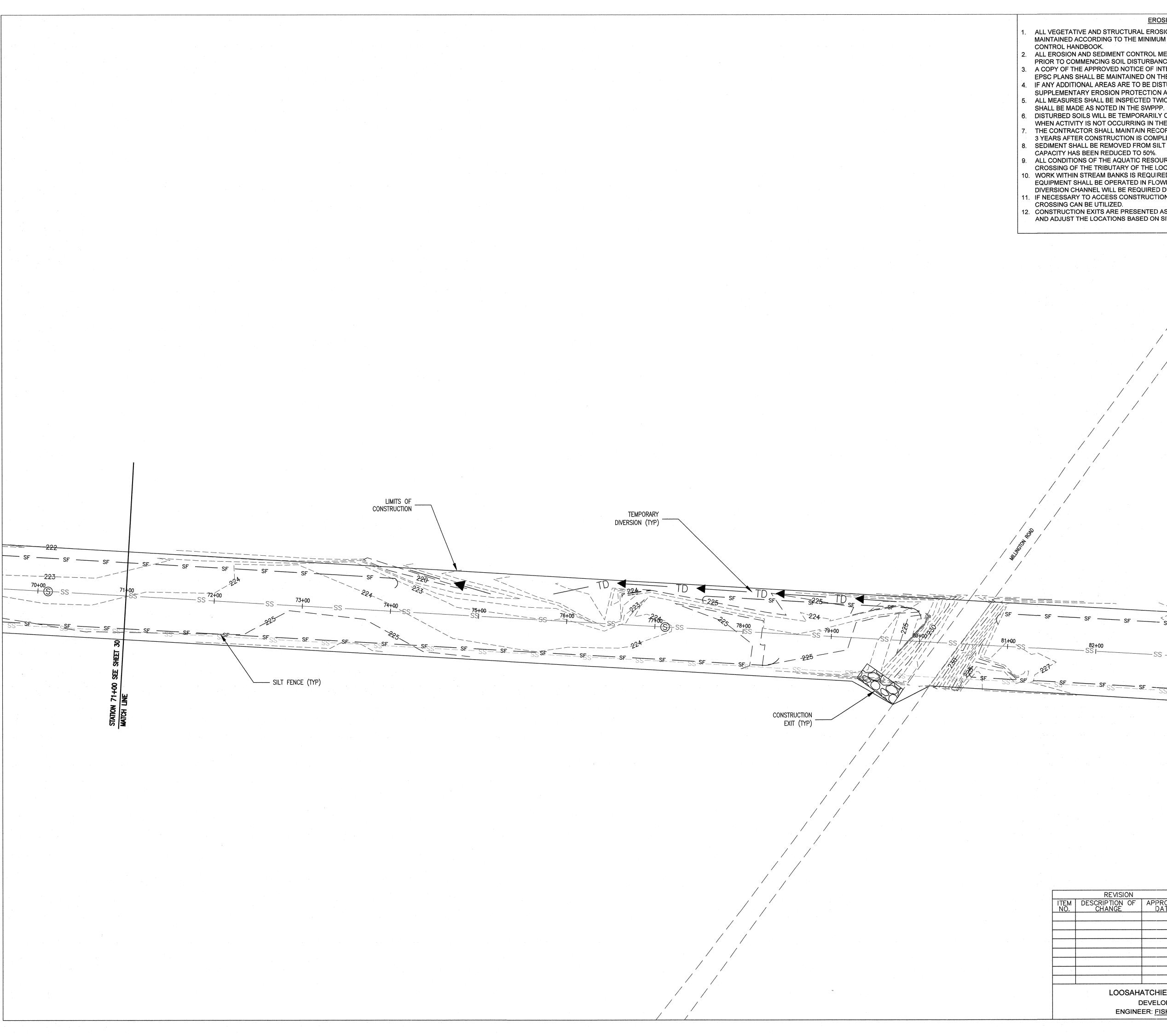
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EROSION CONTROL NOTES

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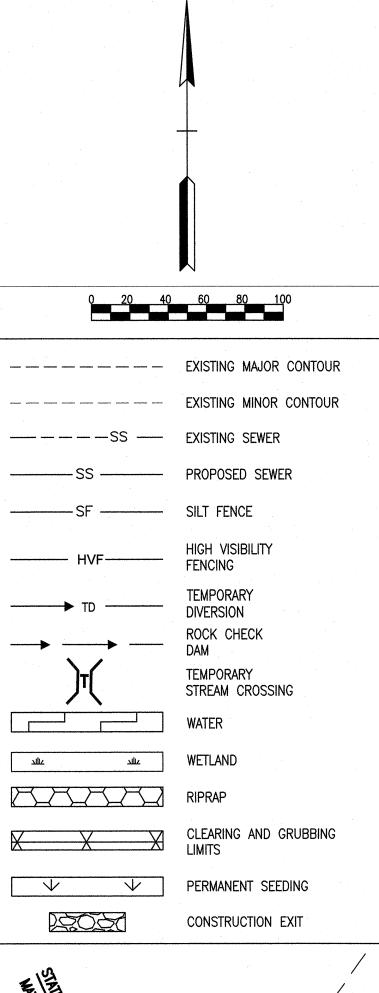
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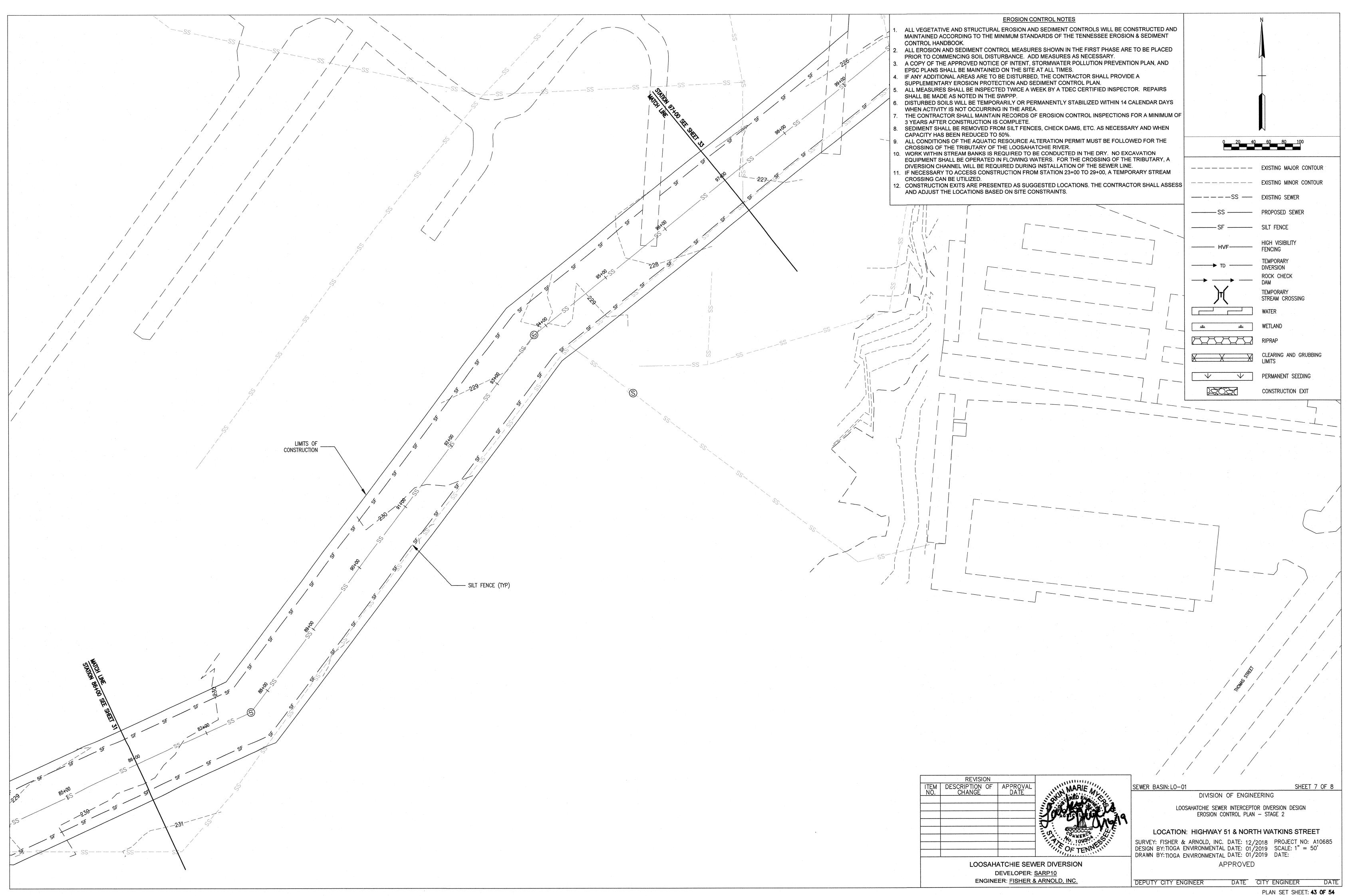
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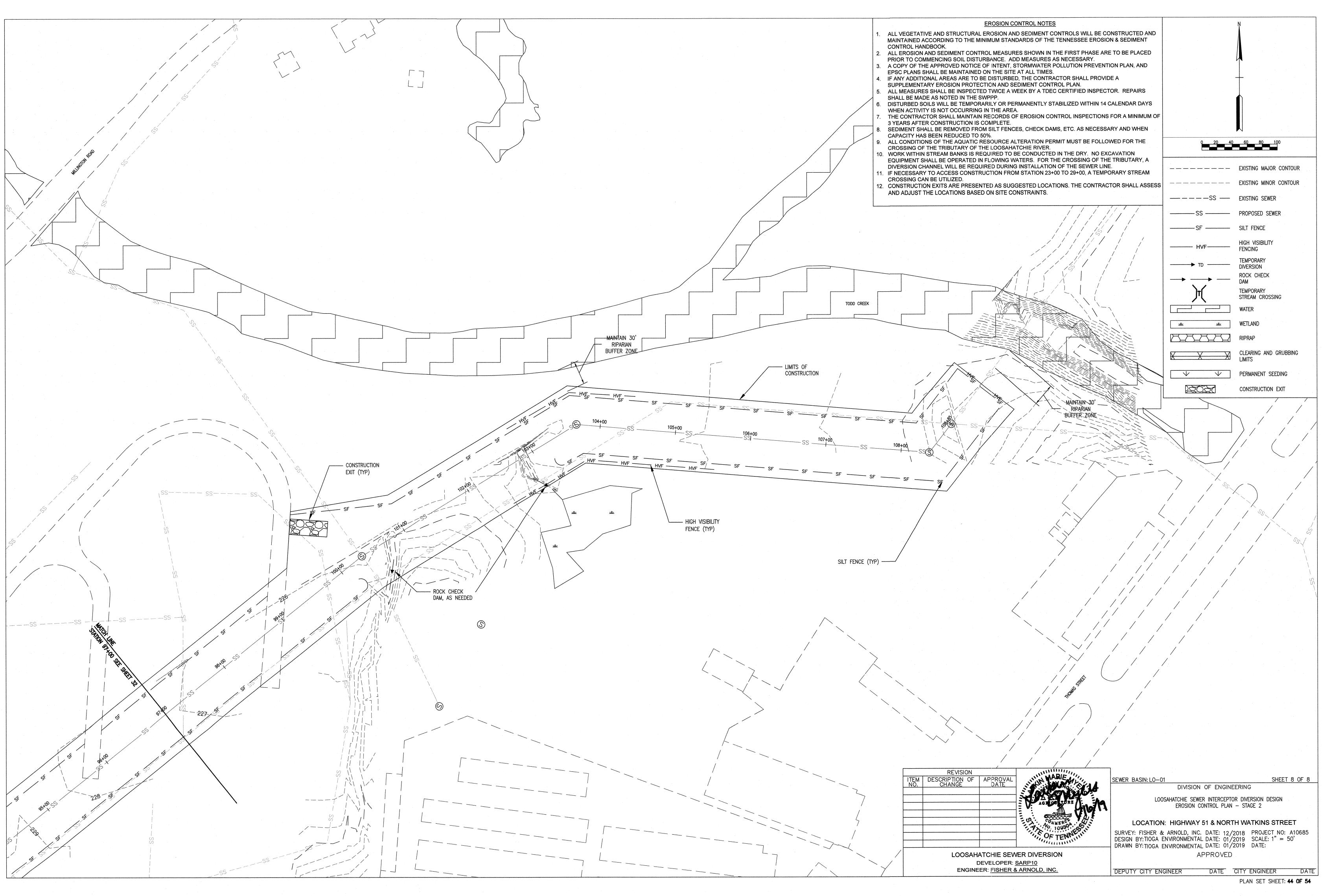


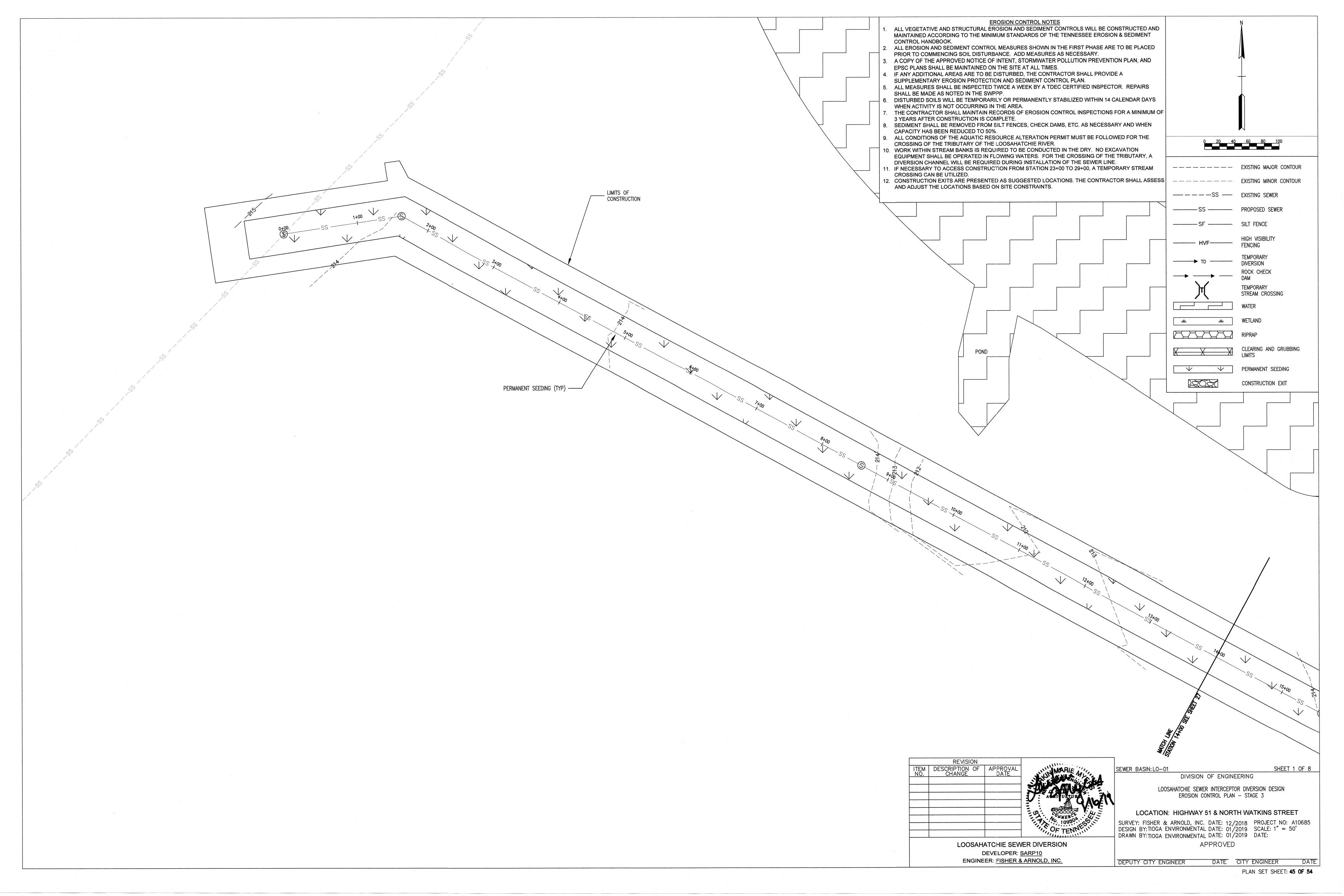
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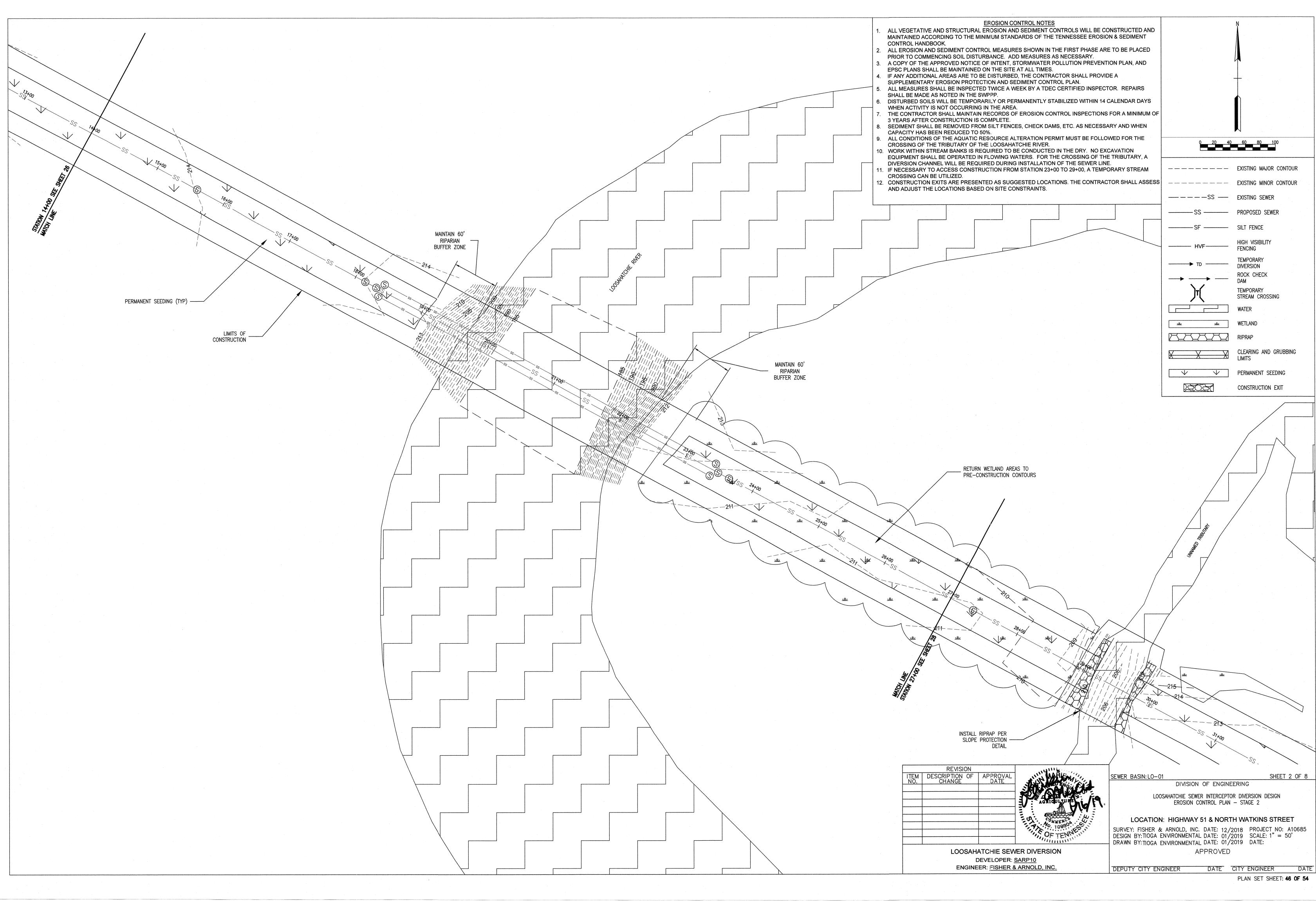
PLAN SET SHEET: 42 OF 54

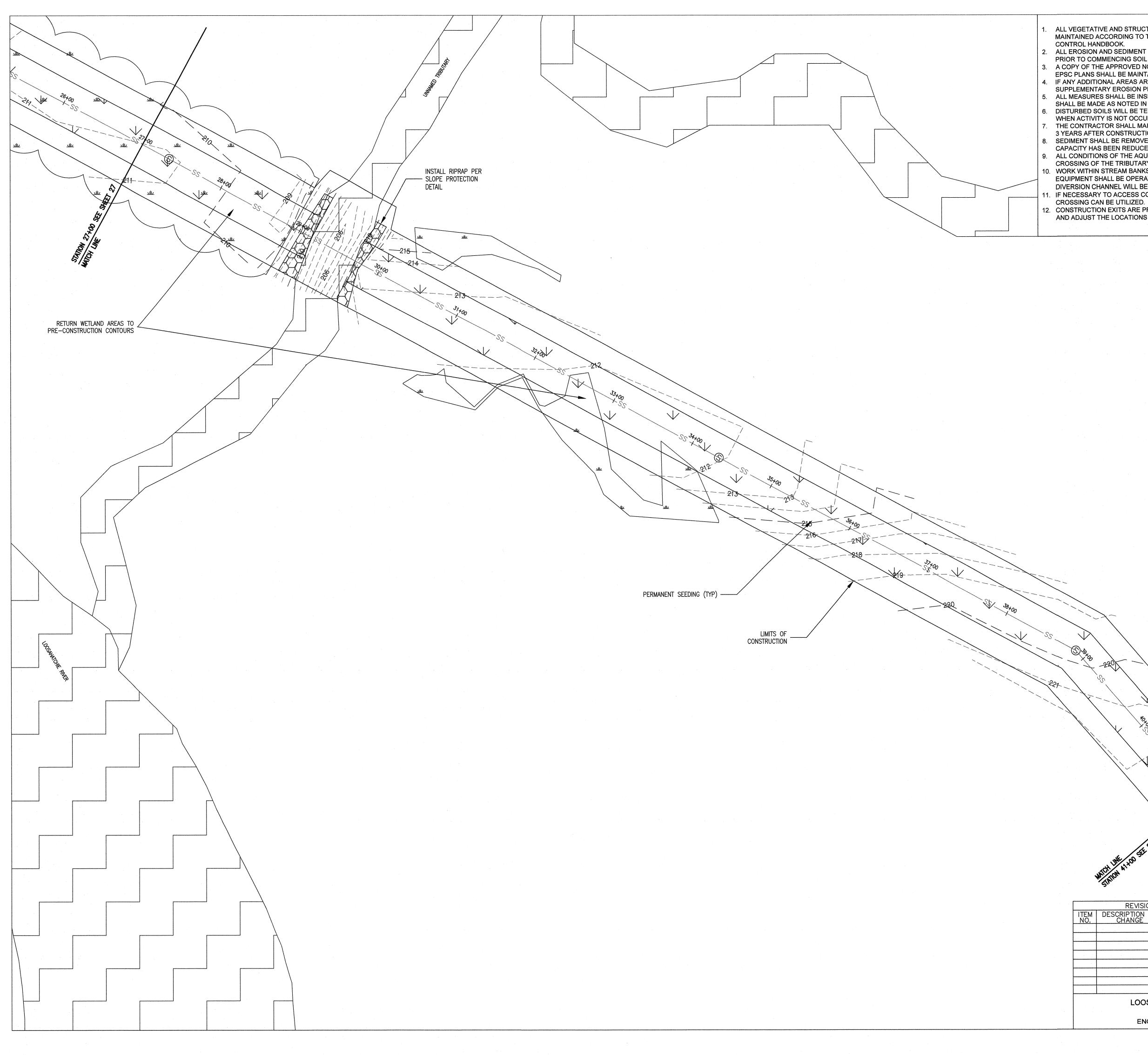
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ESCRIPTION OF APPROVAL CHANGE DATE	MARIEN	SEWER BASIN: LO-01 SHEET 6 OF 8	
CHANGE DATE		DIVISION OF ENGINEERING	
		LOOSAHATCHIE SEWER INTERCEPTOR DIVERSION DESIGN	
		EROSION CONTROL PLAN - STAGE 2	
	E Y Y Y		
	- OANERCE HIS	LOCATION: HIGHWAY 51 & NORTH WATKINS STREET	
	77, 0. 10930 65	SURVEY: FISHER & ARNOLD, INC. DATE: 12/2018 PROJECT NO: A10685	
	OF TENN IN	DESIGN BY: TIOGA ENVIRONMENTAL DATE: 01/2019 SCALE: 1" = 50'	
	************	SURVEY: FISHER & ARNOLD, INC. DATE: 12/2018 PROJECT NO: A10685 DESIGN BY:TIOGA ENVIRONMENTAL DATE: 01/2019 SCALE: 1" = 50' DRAWN BY:TIOGA ENVIRONMENTAL DATE: 01/2019 DATE:	
LOOSAHATCHIE SEW	JER DIVERSION	APPROVED	
DEVELOPER:	SARP10		
ENGINEER: FISHER 8	ARNOLD, INC.	DEPUTY CITY ENGINEER DATE CITY ENGINEER DA	



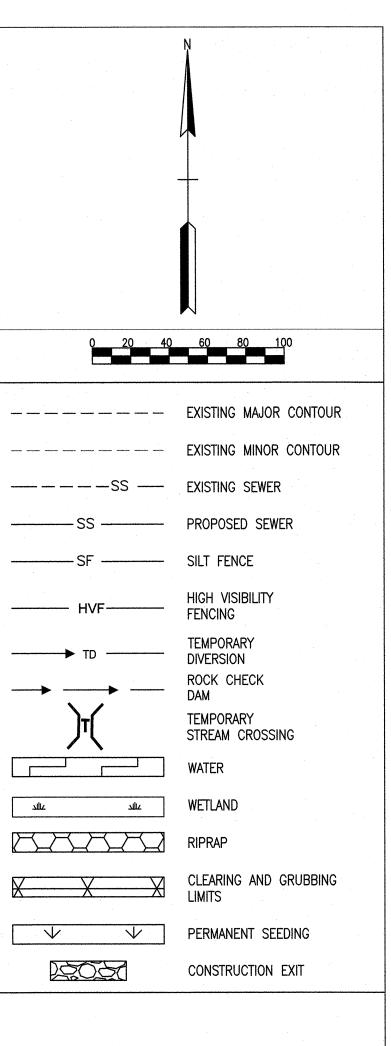








EROSION CONTROL NOTES ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROLS WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS OF THE TENNESSEE EROSION & SEDIMENT ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN IN THE FIRST PHASE ARE TO BE PLACED PRIOR TO COMMENCING SOIL DISTURBANCE. ADD MEASURES AS NECESSARY. A COPY OF THE APPROVED NOTICE OF INTENT, STORMWATER POLLUTION PREVENTION PLAN, AND EPSC PLANS SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. 4. IF ANY ADDITIONAL AREAS ARE TO BE DISTURBED, THE CONTRACTOR SHALL PROVIDE A SUPPLEMENTARY EROSION PROTECTION AND SEDIMENT CONTROL PLAN. ALL MEASURES SHALL BE INSPECTED TWICE A WEEK BY A TDEC CERTIFIED INSPECTOR. REPAIRS SHALL BE MADE AS NOTED IN THE SWPPP. DISTURBED SOILS WILL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 14 CALENDAR DAYS WHEN ACTIVITY IS NOT OCCURRING IN THE AREA. THE CONTRACTOR SHALL MAINTAIN RECORDS OF EROSION CONTROL INSPECTIONS FOR A MINIMUM OF 3 YEARS AFTER CONSTRUCTION IS COMPLETE. SEDIMENT SHALL BE REMOVED FROM SILT FENCES, CHECK DAMS, ETC. AS NECESSARY AND WHEN CAPACITY HAS BEEN REDUCED TO 50%. ALL CONDITIONS OF THE AQUATIC RESOURCE ALTERATION PERMIT MUST BE FOLLOWED FOR THE CROSSING OF THE TRIBUTARY OF THE LOOSAHATCHIE RIVER. 0. WORK WITHIN STREAM BANKS IS REQUIRED TO BE CONDUCTED IN THE DRY. NO EXCAVATION EQUIPMENT SHALL BE OPERATED IN FLOWING WATERS. FOR THE CROSSING OF THE TRIBUTARY, A DIVERSION CHANNEL WILL BE REQUIRED DURING INSTALLATION OF THE SEWER LINE. I. IF NECESSARY TO ACCESS CONSTRUCTION FROM STATION 23+00 TO 29+00, A TEMPORARY STREAM 2. CONSTRUCTION EXITS ARE PRESENTED AS SUGGESTED LOCATIONS. THE CONTRACTOR SHALL ASSESS AND ADJUST THE LOCATIONS BASED ON SITE CONSTRAINTS.



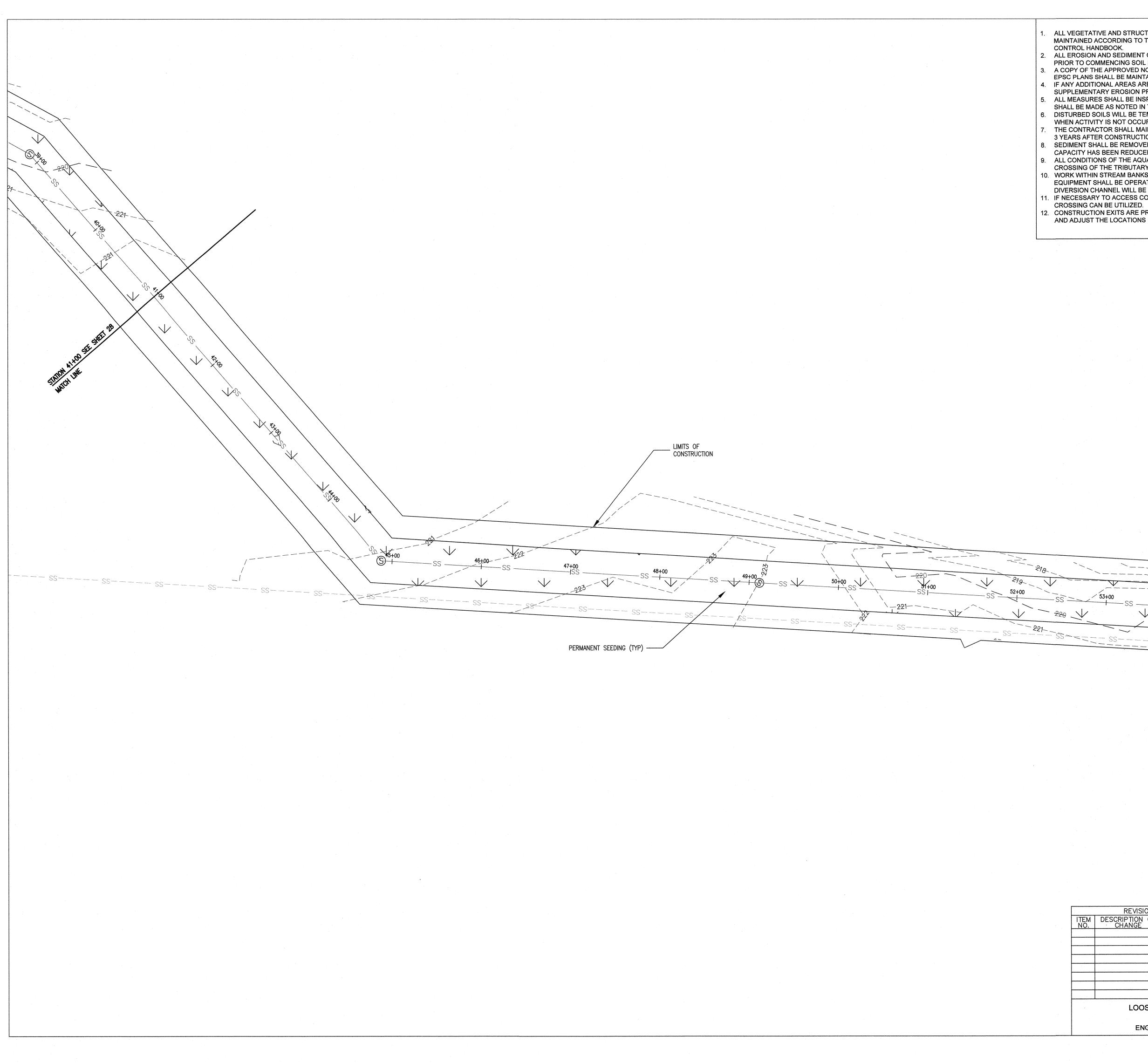
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DESCRIPTION OF	APPROVAL DATE	MARIE	Anter A	SEWER BASIN: LO-01	SHEET 3 OF 8	
CHANGE	DATE	J. P. Maria	Kail	DIVISION OF ENGINEERING		
		AGRICULTU	14/19	LOOSAHATCHIE SEWER INTER EROSION CONTROL		
		S. Contraction		LOCATION: HIGHWAY 51 & NORTH WATKINS STREET		
		05 TEN	NE	SURVEY: FISHER & ARNOLD, INC. DATE: DESIGN BY:TIOGA ENVIRONMENTAL DATE: DRAWN BY:TIOGA ENVIRONMENTAL DATE:	12/2018 PROJECT NO: A10685 01/2019 SCALE: 1" = 50' 01/2019 DATE:	
LOOSAHATCHIE SEWER DIVERSION				APPROVED		
DEVELOPER: SARP10						
ENGINEER: FISHER & ARNOLD, INC.				DEPUTY CITY ENGINEER DAT	E CITY ENGINEER DATE	

DEPUTY CITY ENGINEER

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DATE CITY ENGINEER DATE PLAN SET SHEET: 47 OF 54





ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROLS WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS OF THE TENNESSEE EROSION & SEDIMENT

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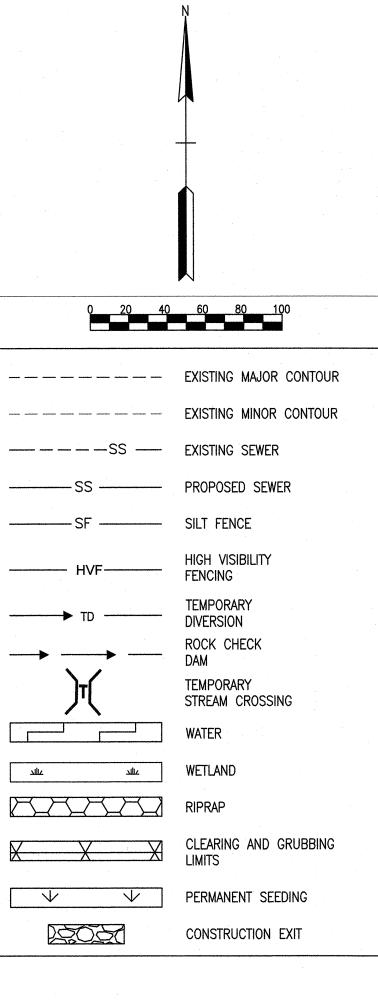
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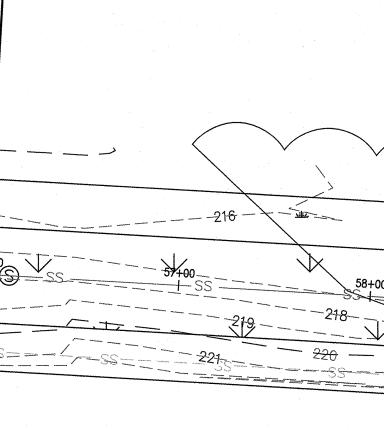
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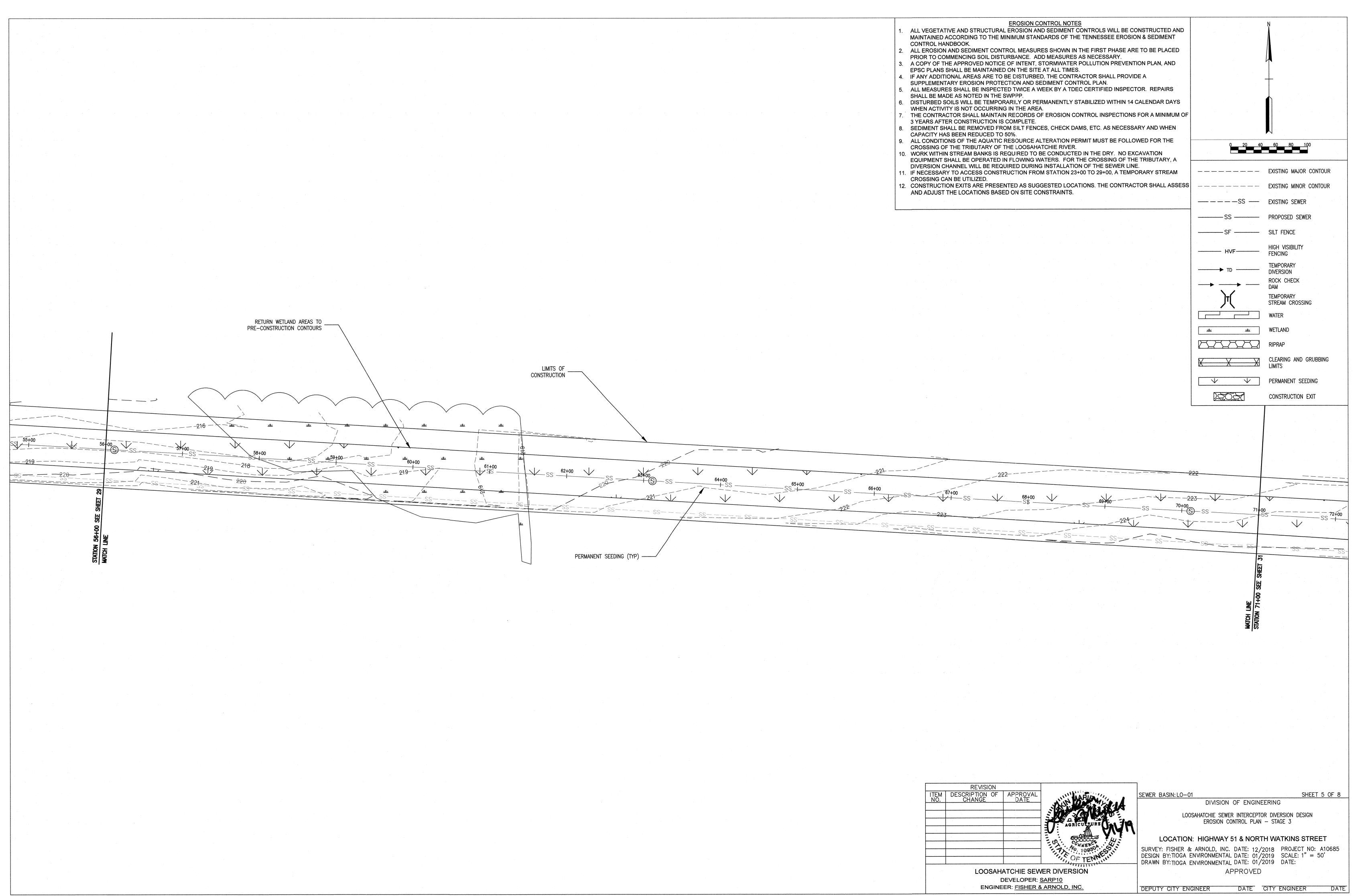
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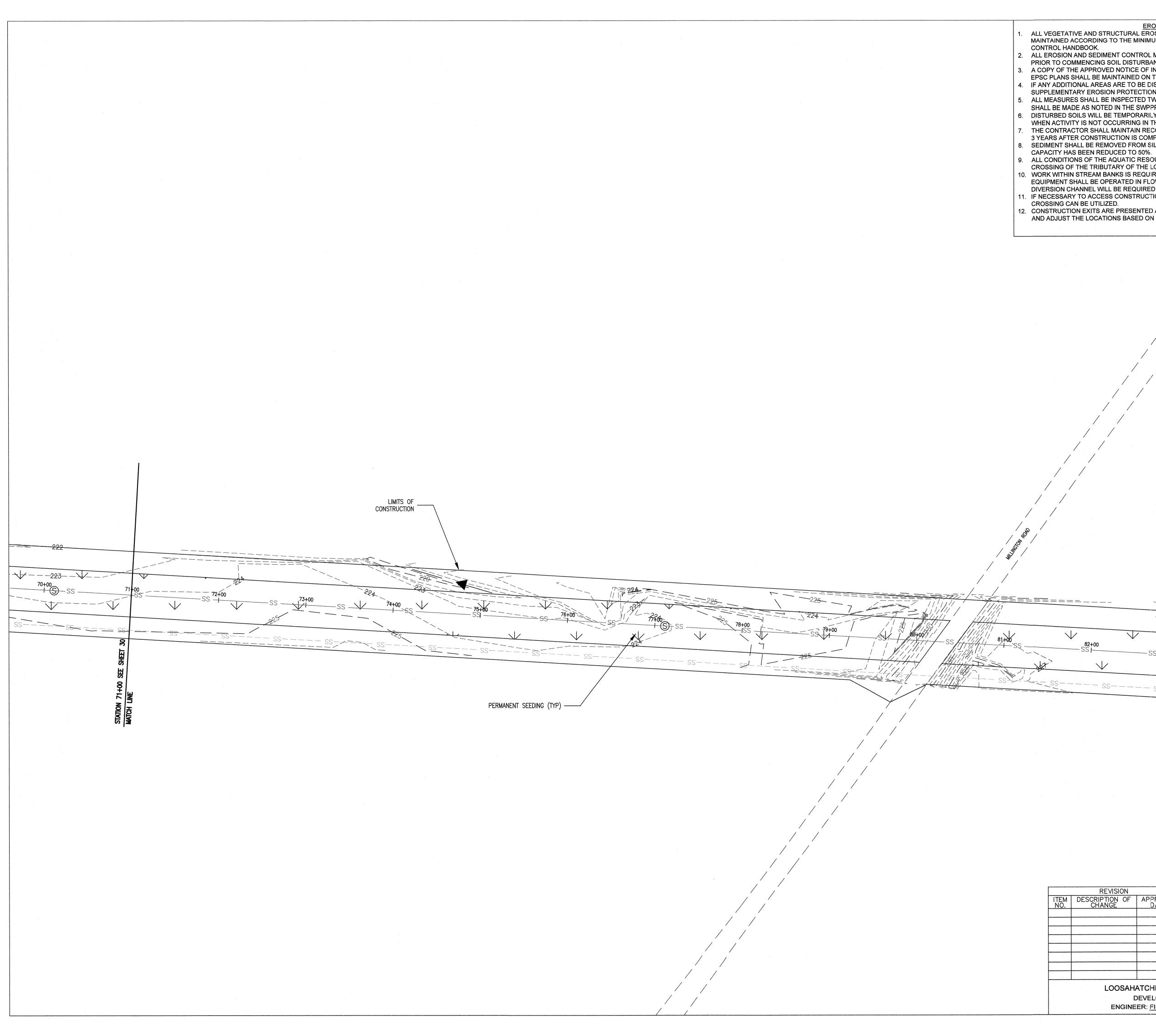


PLAN SET SHEET: 48 OF 54

REVISION ITEM DESCRIPTION OF APPROVAL NO. CHANGE DATE SEWER BASIN: LO-01 SHEET 4 OF 8 DIVISION OF ENGINEERING LOOSAHATCHIE SEWER INTERCEPTOR DIVERSION DESIGN EROSION CONTROL PLAN - STAGE 3 LOCATION: HIGHWAY 51 & NORTH WATKINS STREET SURVEY: FISHER & ARNOLD, INC. DATE: 12/2018 PROJECT NO: A10685 DESIGN BY:TIOGA ENVIRONMENTAL DATE: 01/2019 SCALE: 1" = 50' OF TENNE! DRAWN BY: TIOGA ENVIRONMENTAL DATE: 01/2019 DATE: LOOSAHATCHIE SEWER DIVERSION APPROVED DEVELOPER: SARP10 ENGINEER: FISHER & ARNOLD, INC. DATE CITY ENGINEER DATE DEPUTY CITY ENGINEER



PLAN SET SHEET: 49 OF 54



EROSION CONTROL NOTES ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROLS WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS OF THE TENNESSEE EROSION & SEDIMENT

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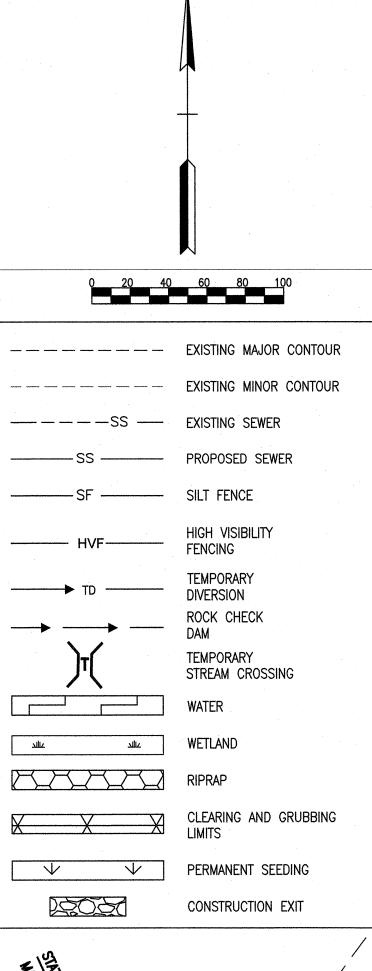
12. CONSTRUCTION EXITS ARE PRESENTED AS SUGGESTED LOCATIONS. THE CONTRACTOR SHALL ASSESS _____ EXISTING MINOR CONTOUR AND ADJUST THE LOCATIONS BASED ON SITE CONSTRAINTS.

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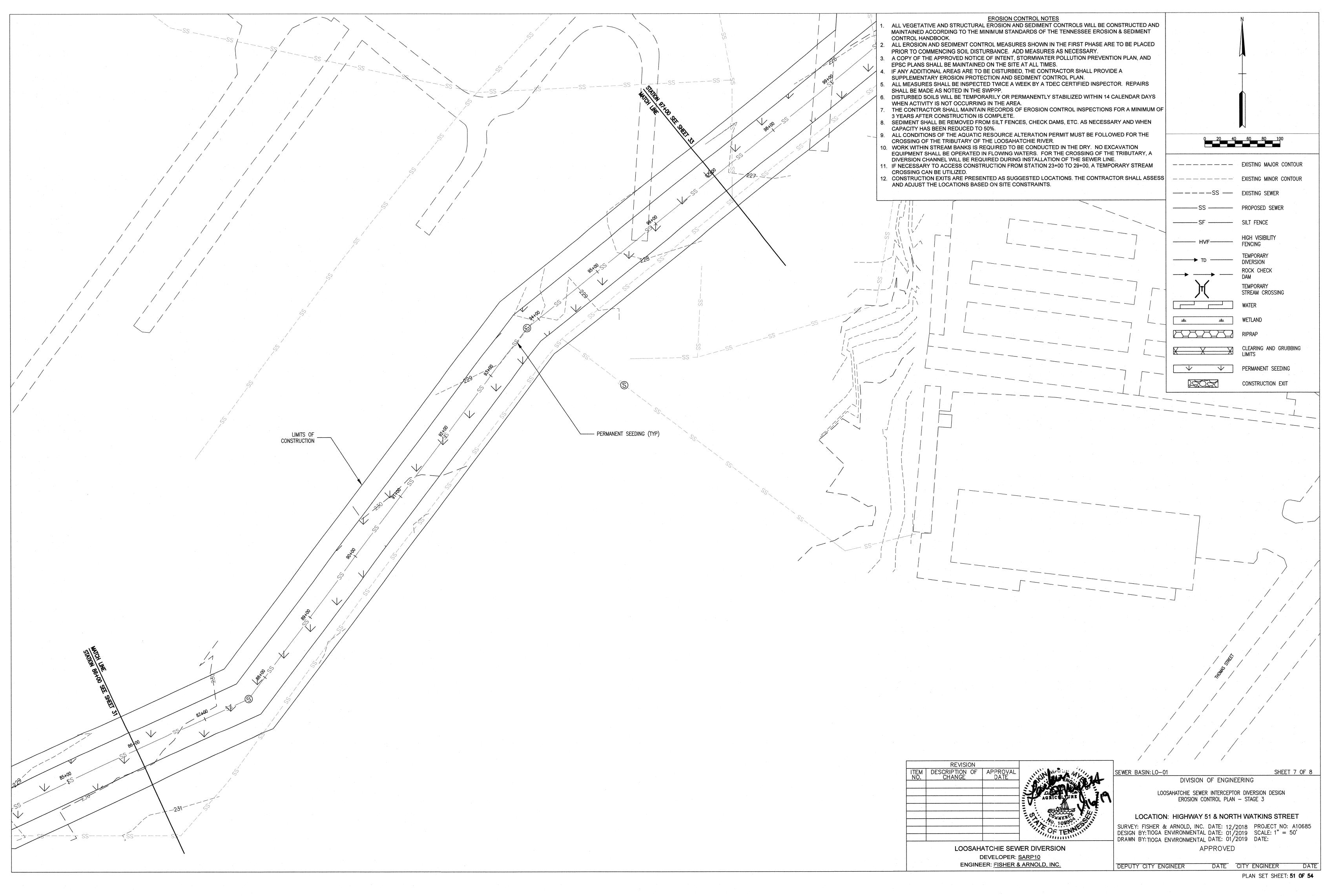
ENGINEER: FISHER & ARNOLD, INC.

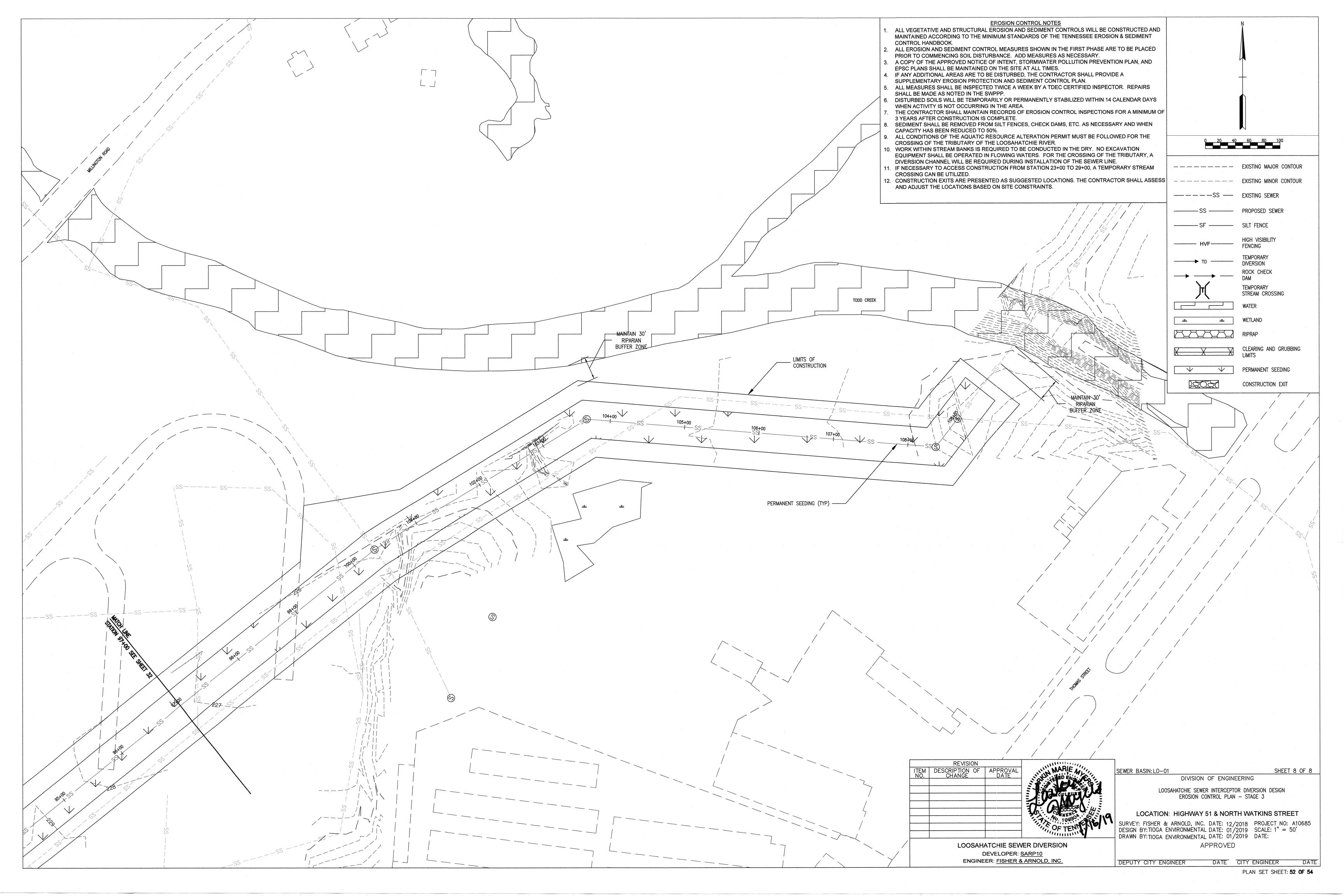


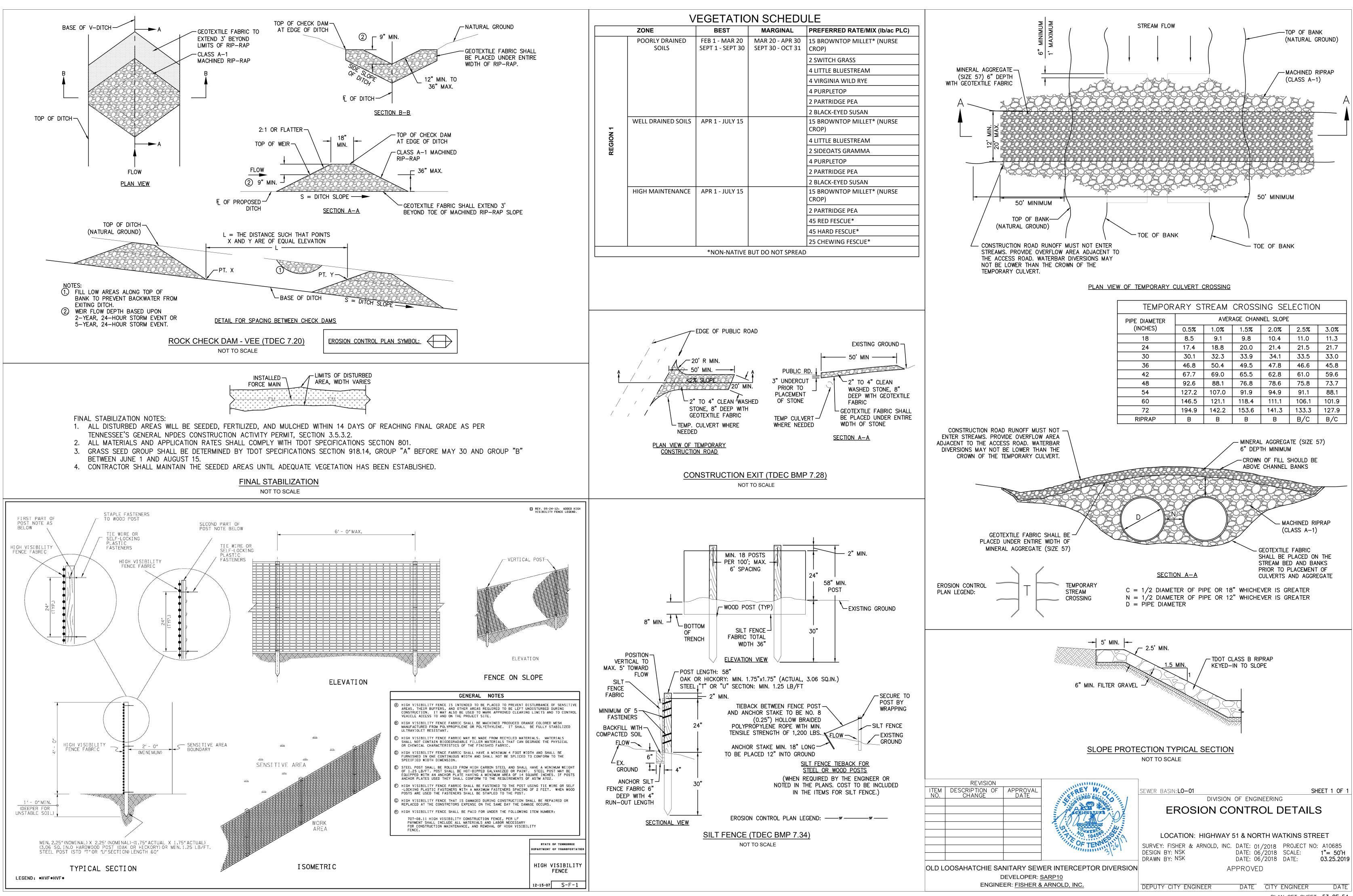
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REVISION ITEM DESCRIPTION OF APPROVAL NO. CHANGE DATE SEWER BASIN: LO-01 SHEET 6 OF 8 DIVISION OF ENGINEERING LOOSAHATCHIE SEWER INTERCEPTOR DIVERSION DESIGN EROSION CONTROL PLAN - STAGE 3 LOCATION: HIGHWAY 51 & NORTH WATKINS STREET ANENC OF TENNES SURVEY: FISHER & ARNOLD, INC. DATE: 12/2018 PROJECT NO: A10685 DESIGN BY:TIOGA ENVIRONMENTAL DATE: 01/2019 SCALE: 1" = 50' DRAWN BY: TIOGA ENVIRONMENTAL DATE: 01/2019 DATE: LOOSAHATCHIE SEWER DIVERSION APPROVED DEVELOPER: SARP10

> DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE PLAN SET SHEET: 50 OF 54







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