

CITY OF MEMPHIS SEWER RELOCATION

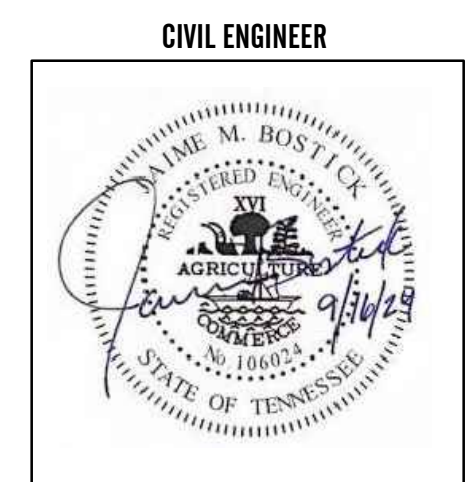
A2H ENGINEERS
ARCHITECTS
PLANNERS



 **VICINITY MAP**
SCALE: NTS

**S. BELLEVUE BLVD. & WALKER ST.
MADISON AVE. & MANASSAS ST.
E. MCLEMORE AVE. & WILSON ST.
MEMPHIS, TENNESSEE**

**CONSTRUCTION DOCUMENTS
SEPTEMBER 16, 2024
PROJECT NUMBER 21117.05**



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TYPICAL CONSTRUCTION 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 LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, TEXAS GAS COMPANY, AND/OR CITY OF MEMPHIS SEWER, PLEASE CALL 811.
- CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- CONTRACTOR SHALL NOTIFY THE SARP10 CONSTRUCTION MANAGER AT 901-452-2385 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
- THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- 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.
- 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.
- 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' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.
- TRACER WIRE SHALL BE INSTALLED ALONG THE LENGTH OF ALL SEWER PIPES, SERVICE CONNECTIONS, MANHOLES, AND STUBS PER STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD SHEET SST-17.

GENERAL GRADING NOTES

- ALL NEWLY CUT OR FILLED AREAS, LACKING ADEQUATE VEGETATION, SHALL BE SEEDED, MULCHED, FERTILIZED AND/OR SODDED AS REQUIRED TO EFFECTIVELY CONTROL SOIL EROSION.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL OF 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 PERIMETERS, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING THE WORK ON THE PROJECT. FOR SITE LOCATION OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-636-8025.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- ALL FILL SOILS SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTM D-698) WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN LIFTS NOT TO EXCEED SIX (6) INCHES OF COMPACTED THICKNESS.
- ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS.
- 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.
- VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE ENGINEER OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.
- ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- LOT DRAINAGE: FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION FOR DRAINAGE. THE FINISH GRADE MUST BEGIN AT LEAST 12-INCHES BELOW THE TOP OF THE FOUNDATION WALL OR GRADE OF THE CONCRETE SLAB AT THE INTERIOR IN THE CASE OF AN INTEGRAL SLAB AND FOUNDATION. THE MINIMUM GRADE AWAY FROM THE FOUNDATION SHALL BE TWO PERCENT (2%) IN ALL DIRECTIONS. THE DRIVEWAY SHALL BE SLOPED DOWN AT TWO PERCENT (2%) FOR AT LEAST EIGHT FEET FROM THE STRUCTURE.

DEMOLITION NOTES

- CLEARING AND GRUBBING IS TO BE HELD TO THE MINIMUM WIDTH NECESSARY TO ACCOMMODATE SLOPES. UNNECESSARY CANOPY REMOVAL (TREES, SHRUBS, ETC.) IS PROHIBITED.
- REFER TO EROSION CONTROL PLAN, FOR MINIMAL EROSION CONTROL MEASURES AND REQUIREMENTS.
- THE CONTRACTOR SHALL PROTECT ANY EXISTING STRUCTURES, PAVEMENTS, CURBS, SIDEWALKS, FENCES OR OTHER ELEMENTS DESIGNATED TO REMAIN. ANY EXISTING ELEMENT NOT INDICATED TO BE REMOVED, WHICH IS DAMAGED DURING THE COURSE OF DEMOLITION OR CONSTRUCTION, SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR REPLACED IN KIND, AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL MAINTAIN FIRE DEPARTMENT ACCESS TO ALL FIRE HYDRANTS OR PROVIDE TEMPORARY HYDRANTS WHERE ACCESS IS BLOCKED.
- THE CONTRACTOR AT NO TIME SHALL ENCRUCH UPON OR CAUSE DISRUPTIONS TO TRAFFIC FLOW ON ADJACENT STREET RIGHT-OF-WAY WITHOUT SECURING THE PROPER PERMITS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL SAFETY BARRIERS, TEMPORARY CONTROLS AND PROTECTION DEVICES TO COMPLY WITH CITY, COUNTY, STATE OR FEDERAL REQUIREMENTS THROUGHOUT THE ENTIRE PROJECT CONSTRUCTION PERIOD.
- ALL DEMOLITION LINES BETWEEN PROPOSED AND REMAINING PAVEMENTS SHALL BE SAW CUT STRAIGHT AND SMOOTH. ALL RADIAL CUTS SHALL BE CONSISTENT TO THE ARC AND COME TO A SMOOTH AND COMPLETE TRANSITION TO THE TANGENT.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES TO REMAIN IN SERVICE. ANY EXISTING UTILITY

- OR UNDERGROUND STRUCTURE TO REMAIN, WHETHER SHOWN ON THE PLANS OR NOT, WHICH IS DAMAGED BY THE CONTRACTOR'S OPERATIONS, SHALL BE IMMEDIATELY RESTORED AT NO ADDITIONAL COST TO THE OWNER/OPERATOR.
- THE CONTRACTOR SHALL MARK AND PROTECT ALL TREES AND VEGETATION INDICATED TO REMAIN, AND SHALL INSTALL AND MAINTAIN TREE PROTECTION FENCES AT THE DRIP LINE OF ALL EXISTING TREES TO REMAIN; AND PREVENT PARKING, STORING OF MATERIALS, AND ENTRY OF VEHICLES AND CONSTRUCTION EQUIPMENT WITHIN THE DRIP LINES OF THE TREES TO BE SAVED.
 - EXISTING DRAINAGE SYSTEMS (SURFACE AND SUB-SURFACE) SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
 - ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. COORDINATE WITH EROSION CONTROL PLAN.
 - AREAS THAT ARE DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE.

TRAFFIC CONTROL PLAN NOTES

- 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.
- SIGNS SHOWN ON THIS PLAN ARE TO WARN TRAFFIC ABOUT THE CONSTRUCTION. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
- 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.
- CONTRACTOR SHALL NOTIFY THE SARP10 CONSTRUCTION MANAGER AT 901-452-2385 AND TRAFFIC ENGINEERING DEPARTMENT (901-576-6710) A 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.
- SIZES OF ALL SIGNS SHALL COMPLY WITH STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 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.
- ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
- 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.
- CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "A" WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
- DRUMS WITH TYPE "C" WARNING LIGHTS SHALL DELINEATE THE EDGE OF PAVEMENT THROUGH THE ENTIRE CONSTRUCTION AREA.
- 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.
- CONTRACTOR SHALL INSTALL TEMPORARY NO PARKING SIGNS AS REQUIRED WITHIN THE TRAFFIC CONTROL AREA.
- TWO-WAY TRAFFIC SHALL BE MAINTAINED ON SOUTH BELLEVUE BLVD, MADISON AND MANASSAS ST. AT ALL TIMES.
- DURING CONSTRUCTION, A MINIMUM OF ONE 10 FOOT LANE OF TRAFFIC SHALL REMAIN OPEN TO BOTH DIRECTIONS OF TRAFFIC AT ALL TIMES.
- CONTRACTOR SHALL BE REQUIRED TO MAINTAIN AT LEAST ONE 10 FOOT LANE OF TRAFFIC FOR EACH DIRECTION ON SOUTH BELLEVUE BLVD, MADISON AND MANASSAS ST. AT ALL TIMES AND SHALL MAINTAIN A TEMPORARY CENTER LINE OR CONES THROUGH THE CONSTRUCTION AREA.
- ONE/TWO 10 FOOT LANES OF TRAFFIC SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES.
- WORK WITHIN THE ROADWAY DURING DIFFERENT PHASES OF CONSTRUCTION SHALL NOT BE ACTIVE AT THE SAME TIME.
- ONLY ONE PHASE OF THE TRAFFIC CONTROL PLAN SHALL BE ACTIVE AT ANY ONE TIME.
- ONLY ONE CONSTRUCTION SITE ON SOUTH BELLEVUE BLVD, MADISON AND MANASSAS ST. SHALL BE ACTIVE AT ANY ONE TIME.
- ALL TEMPORARY OR PERMANENT TRAVELED SURFACE SHALL BE INSPECTED DAILY BY THE CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR RE-FINISHING PERFORMED.
- MARKINGS SHALL BE MAINTAINED IN LONG-TERM STATIONARY WORK AREAS AND SHALL MATCH AND MEET THE MARKINGS IN PLACE AT BOTH ENDS OF THE WORK AREA.
- CENTERLINE/LANE LINES SHOULD BE PLACED, REPLACED, OR DELINEATED WHERE APPROPRIATE BEFORE THE ROADWAY IS OPENED TO TRAFFIC.
- CONTRACTOR SHALL CONTACT ALL APPROPRIATE AGENCIES BEFORE CLOSING ANY ROADWAYS.
- CONTRACTOR SHALL CONTACT THE DIVISION OF ENGINEERING AT 576-6710 TO ARRANGE FOR THE BAGGING/REMOVAL OF PARKING METERS.
- CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS SIGNAL SHOP AT 528-2844 FOR LOCATION OF SIGNAL CONDUIT AND WIRES.
- 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.
- OBLITERATED MARKINGS SHALL BE UNIDENTIFIABLE AS PAVEMENT MARKINGS UNDER DAY OR NIGHT, WET OR DRY CONDITIONS. OVERLAYING EXISTING STRIPES WITH BLACK PAINT OR ASPHALT DOES NOT MEET THE REQUIREMENTS OF COVERING, REMOVAL, OR OBLITERATION; HOWEVER, THE USE OF REMOVABLE, NONREFLECTIVE, PREFORMED TAPE IS PERMITTED WHERE MARKINGS NEED TO BE COVERED TEMPORARILY.

- AT NO TIME SHALL ONE LANE SECTION BE LEFT OPEN UNATTENDED. WHERE TWO FLAGGERS ARE REQUIRED AND IN CIRCUMSTANCES WHERE ONLY ONE LANE OF TRAFFIC IS OPEN AND THERE IS NO CLEAR LINE OF SIGHT FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, THE CONTRACTOR SHALL PROVIDE RADIO COMMUNICATION OR OTHER APPROPRIATE MEANS OF ESTABLISHING CONTROL OF TRAFFIC.
- ANYTIME FLAGGER IS NOT PRESENT TO CONTROL TRAFFIC, TWO TRAFFIC LANES MUST BE OPEN TO MAINTAIN TWO-WAY TRAFFIC AND ALL INAPPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
- ALL FLAGGERS SHALL BE EQUIPPED WITH A STOP/SLOW PADDLE.
- 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.
- ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETROREFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TEMPORARY STRIPING SHALL BE PREFORMED TAPE.
- THE CONTRACTOR MUST REIMBURSE THE CITY OF MEMPHIS FOR LOST REVENUE ASSOCIATED WITH PARKING METER SPACES BLOCKED/REMOVED FOR CONSTRUCTION.
- THE CONTRACTOR IS PROHIBITED FROM CLOSING THE EXISTING SIDEWALK AT ANYTIME 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.
- 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.
- ANY CLOSURE OF THE RIGHT OF WAY SHALL BE TIME LIMITED TO THE ACTIVE DEMOLITION OR CONSTRUCTION. CONTINUOUS UNWARRANTED CLOSURE OF THE 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 (636-2462) ON THE JOB.
- THE CONTRACTOR WILL MAINTAIN ACCESS FOR CITY OF MEMPHIS SIGNAL CREWS TO PERFORM MAINTENANCE ON THE SIGNAL POLES IN AFFECTED AREA.
- THE CONTRACTOR SHALL NOTIFY MEMPHIS AREA TRANSIT AUTHORITY (MATA) AT 722-7100 A MINIMUM OF 48 HOURS PRIOR TO IMPLEMENTING A TRAFFIC CONTROL PLAN.

GENERAL NOTES FOR EROSION CONTROL PLANS

- AS A MINIMUM, ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE STANDARDS LOCATED IN THE MEMPHIS AND SHELBY COUNTY SWMM, AND AS REQUIRED BY STATE AND FEDERAL LAWS.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES. THIS COPY SHALL BE MADE AVAILABLE TO THE CITY OR COUNTY UPON REQUEST.
- PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN ANY AREA NOT ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO TDEC AND THE CITY OR COUNTY FOR REVIEW AND APPROVAL.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING AND GRADING. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.
- THE CITY OR COUNTY MUST BE NOTIFIED PRIOR TO DEWATERING OPERATIONS. WATER MUST BE PUMPED THROUGH AN APPROVED FILTERING DEVICE. THE CITY OR COUNTY MAY SUSPEND DEWATERING OPERATIONS IF POLLUTION IS OBSERVED.
- THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES PER TNR100000. THE CONTRACTOR SHALL PERFORM ANY REPAIRS OR MAINTENANCE IMMEDIATELY IN ORDER TO ENSURE EFFECTIVE EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES AT THE PROJECT SITE. THIS RECORD SHALL BE MADE AVAILABLE TO THE CITY OR COUNTY UPON REQUEST.

SHEET INDEX	
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C0.2	EXISTING CONDITION PLAN (MADISON AVE & MANASSAS ST.)
C0.3	EXISTING CONDITION PLAN (E. MCLEMORE AVE & WILSON ST.)
C1.1	DEMOLITION PLAN (S. BELLEVUE BLVD & WALKER ST.)
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C7.6	TRAFFIC PLAN
C10.0	DETAILS
C10.1	DETAILS
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PROOF ROLL NOTES


- IN ADDITION TO THE QUALITY CONTROL TESTING, TO DETERMINE THAT EACH LAYER OF A PAVEMENT SECTION HAS BEEN PROPERLY COMPACTED AND STABILIZED, A PERFORMANCE TEST IN THE FORM OF PROOF ROLLING SHALL BE CONDUCTED. THE PROOF ROLLING WILL BE PERFORMED IN THE PRESENCE OF THE DESIGN ENGINEER (OR AUTHORIZED REPRESENTATIVE); THE GENERAL CONTRACTOR, AND ANY SUB-CONTRACTORS THAT ARE RESPONSIBLE FOR THE LAYER BEING TESTED AND THE NEXT SECTION OF PAVEMENT TO BE INSTALLED.
- PROOF ROLLING WILL BE PERFORMED IN THE FOLLOWING SEQUENCE:
- ON THE SUBGRADE PRIOR TO INSTALLING THE BASE COURSE OR CONCRETE PAVEMENT
 - ON THE BASE COURSE PRIOR TO INSTALLING THE ASPHALT BASE OR BINDER COURSE
 - IF THE FINAL SURFACE COURSE OF ASPHALT IS NOT INSTALLED WITHIN 30 DAYS OF THE INSTALLATION OF THE BASE OR BINDER COURSE, THEN THE BASE ASPHALT SHALL BE PROOF ROLLED.

PROOF ROLLING SHALL BE PERFORMED USING A FULLY LOADED TANDEM AXLE DUMP TRUCK. THE TRUCK SHALL BE DRIVEN OVER THE PAVING AREA AT SUCH SPEED THAT THE OBSERVERS CAN WALK BESIDE THE REAR AXLE. WHEN THE OBSERVERS SEE THE AREA UNDER THE WHEELS PUMPING OR RUTTING THEY SHALL MARK IT ON THE SURFACE. PUMPING SHALL BE DEFINED AS THE VERTICAL MOVEMENT AND REBOUND OF THE SURFACE BEING TESTED. THE PROCESS SHALL BE REPEATED UNTIL A WHEEL LOAD HAS BEEN OBSERVED TO PASS OVER ALL AREAS OF THE PAVEMENT SECTION. THE AREAS MARKED SHALL BE CONSIDERED TO HAVE FAILED. THE OBSERVERS SHALL DISCUSS AND DETERMINE THE REMEDIAL ACTION(S) TO BE UNDERTAKEN TO STABILIZE THE AREAS OF FAILURE BEFORE THE NEXT LAYER IN THE PAVEMENT IS INSTALLED.

A4	GENERAL NOTES
NTS	

D1	CITY OF MEMPHIS STANDARD NOTES
NTS	

CONSTRUCTION DOCUMENTS

REVISION			DWG. NO.
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE	
			 <p style="text-align: center;">SHEET 1 OF 1 DIVISION OF ENGINEERING CITY OF MEMPHIS GENERAL NOTES MEMPHIS, TENNESSEE SURVEY: <u> A2H </u> DATE: <u>02/03/23</u> BOOK: <u> </u> DESIGN BY: <u> A2H </u> DATE: <u>09/10/24</u> SCALE: <u> </u> NTS (REVIEWED)</p>

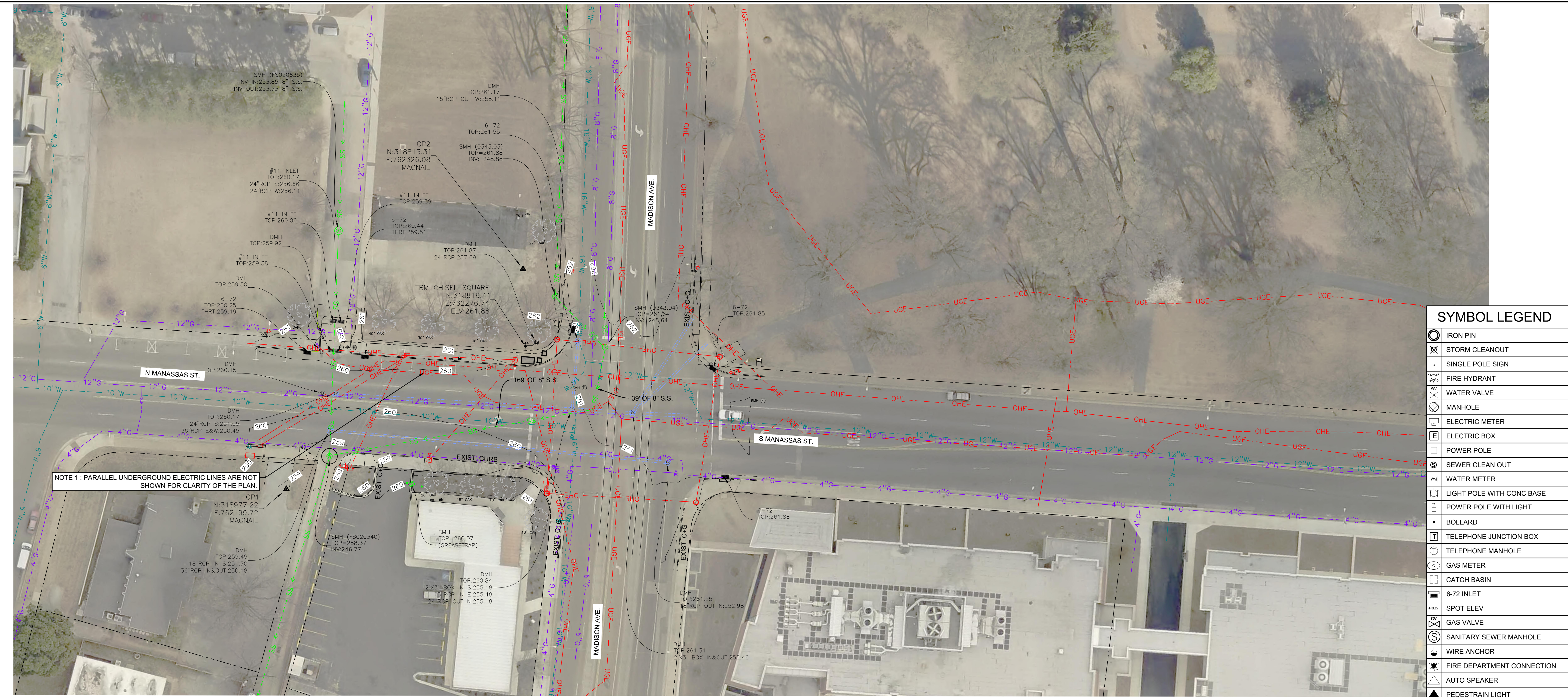
SARP10 - GRAVITY SEWER IMPROVEMENT PACKAGE B

DEVELOPER: CITY OF MEMPHIS
ENGINEER: A2H, INC.

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

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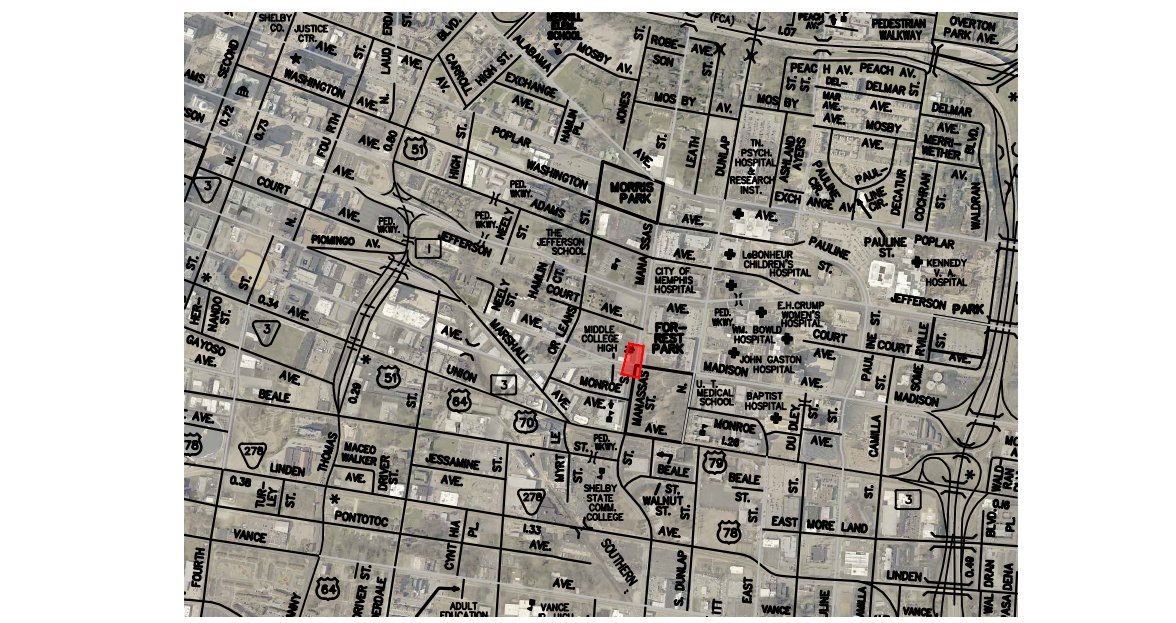
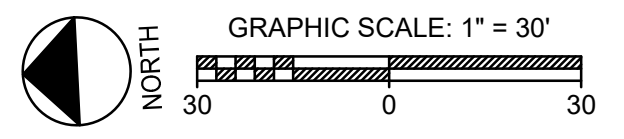
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NOTE 1: PARALLEL UNDERGROUND ELECTRIC LINES ARE NOT SHOWN FOR CLARITY OF THE PLAN.

SYMBOL LEGEND	
	IRON PIN
	STORM CLEANOUT
	SINGLE POLE SIGN
	FIRE HYDRANT
	WATER VALVE
	MANHOLE
	ELECTRIC METER
	ELECTRIC BOX
	POWER POLE
	SEWER CLEAN OUT
	WATER METER
	LIGHT POLE WITH CONC BASE
	POWER POLE WITH LIGHT
	BOLLARD
	TELEPHONE JUNCTION BOX
	TELEPHONE MANHOLE
	GAS METER
	CATCH BASIN
	6-72 INLET
	SPOT ELEV
	GAS VALVE
	SANITARY SEWER MANHOLE
	WIRE ANCHOR
	FIRE DEPARTMENT CONNECTION
	AUTO SPEAKER
	PEDESTRIAN LIGHT
	BACKFLOW PREVENTER
	ROOFDRAIN/DOWNSPOUT

C1 EXISTING CONDITION PLAN
1" = 30'



D1 VICINITY MAP
NTS

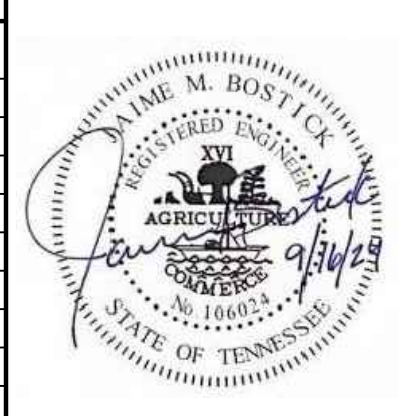
LEGENDS	
	PARCEL LINE
	EXIST. OVERHEAD ELECTRIC LINE
	EXIST. UNDERGROUND ELECTRIC LINE
	EXIST. 4" GAS LINE
	EXIST. 6" GAS LINE
	EXIST. SANITARY SEWER LINE
	EXIST. 6" WATER LINE
	EXIST. 10" WATER LINE
	EXIST. 12" WATER LINE
	EXIST. 16" WATER LINE
	EXIST. FENCE LINE
	EXIST. GAS LINE
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	EXIST. GUTTER LINE
	EXIST. CURB LINE
	EXIST. DRAIN LINE
	EXIST. CONCRETE LINE

D2 LEGEND
NTS

TOPO NOTE:
 1 FOOT CONTOURS AS SHOWN HEREON DERIVED FROM A RADIAL SURVEY NETWORK, USING TOPCON ROBOTIC TOTAL STATIONS.
PROJECT DATUM:
 TENNESSEE GRID
 NAD 1983 ZONE 4100
 NGVD 1983
CONTROL DERIVED FROM NETWORK ADJUSTED REAL-TIME KINEMATIC GPS SURVEY USING TOPCON HIPER-V DUAL FREQUENCY RECEIVERS

SEWER BASIN ID: FS-2

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



CONSTRUCTION DOCUMENTS
 DEVELOPER: CITY OF MEMPHIS
 ENGINEER: A2H, INC.

BENCHMARK INFORMATION FOR S. BELLEVUE BLVD AND WALKER ST.
 TEMPORARY BENCHMARK - TOP OF SMH RIM (ELEV.: 309.09) LOCATED AT THE INTERSECTION OF WALKER AVE AND SOUTH BELLEVUE BLVD.

BENCHMARK INFORMATION FOR MADISON AVE AND MANASSAS ST.
 CITY OF MEMPHIS BM - MADISON AVE & DUNLAP ST. CITY CAP IS LOCATED ON THE NE CORNER, SET 06-09-2005. GLUED TO TOP OF CURB, 18' SOUTH OF ER (N: 318723.53; E: 762893.77; ELV: 269.96)

TEMPORARY BENCHMARK - TBM CHISEL SQUARE (N: 318816.407; E: 762276.745; ELEV.: 261.88) LOCATED AT THE NORTHEAST CORNER OF MADISON AVE AND N MANASSAS ST.

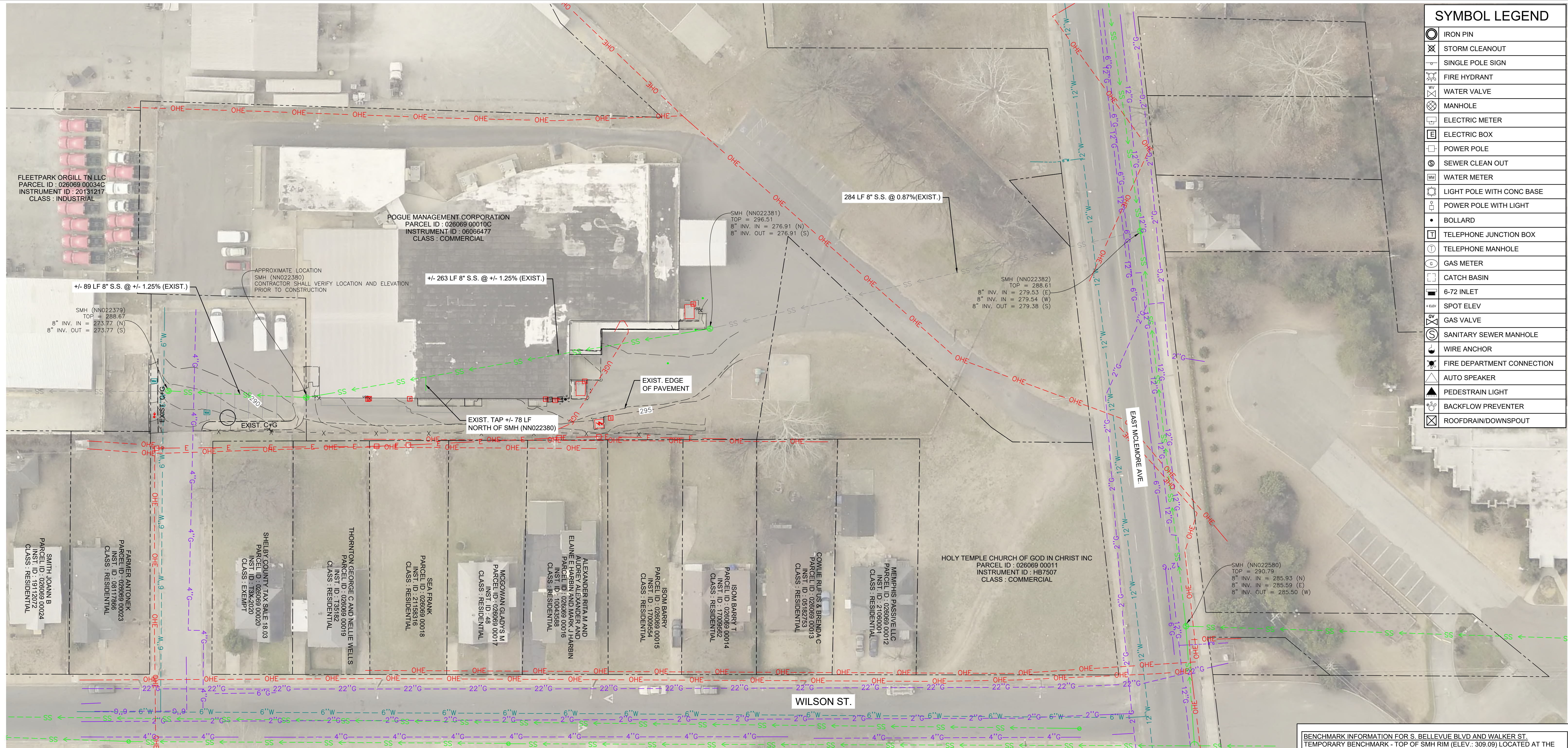
BENCHMARK INFORMATION FOR E. MCLEMORE AVE AND WILSON ST.
 TEMPORARY BENCHMARK - CP129/TBM/MAGNAIL (N: 308935.207; E: 766801.804; ELEV.: 294.01) LOCATED APPROX. 250' NORTHWEST FROM THE INTERSECTION OF WILSON ST. AND HALLY PL.

THIS PROJECT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE A) PER FLOOD INSURANCE RATE MAP, MAP NUMBER 47157C0270F, DATED SEPTEMBER 28, 2007.

SHEET 2 OF 3
 DIVISION OF ENGINEERING
MADISON AVE & MANASSAS ST. - EXISTING CONDITION PLAN
 MEMPHIS, TENNESSEE
 SURVEY: A2H DATE: 02/03/23 BOOK: _____
 DESIGN BY: A2H DATE: 09/10/24 SCALE: 1"=30'
 (REVIEWED)
 DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

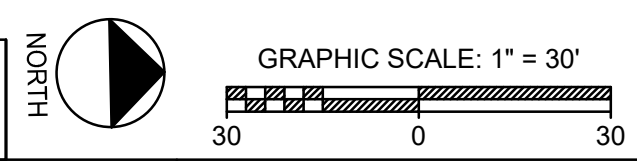
DWG NO. **C0.2**

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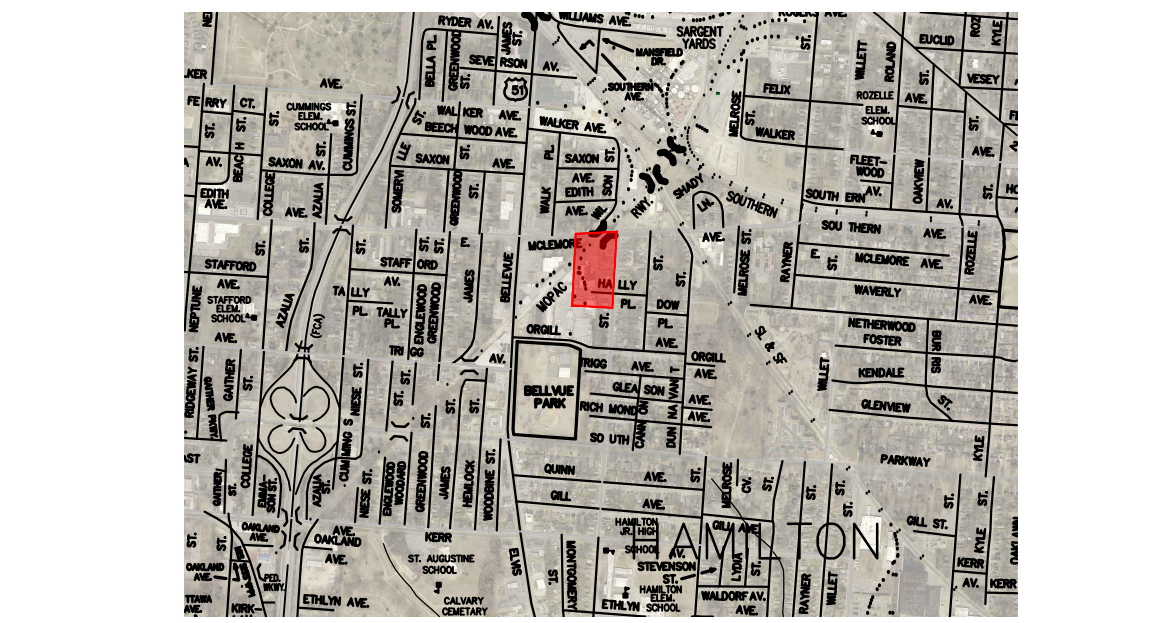
SYMBOL LEGEND	
	IRON PIN
	STORM CLEANOUT
	SINGLE POLE SIGN
	FIRE HYDRANT
	WATER VALVE
	MANHOLE
	ELECTRIC METER
	ELECTRIC BOX
	POWER POLE
	SEWER CLEANOUT
	WATER METER
	LIGHT POLE WITH CONC BASE
	POWER POLE WITH LIGHT
	BOLLARD
	TELEPHONE JUNCTION BOX
	TELEPHONE MANHOLE
	GAS METER
	CATCH BASIN
	6-72 INLET
	SPOT ELEV
	GAS VALVE
	SANITARY SEWER MANHOLE
	WIRE ANCHOR
	FIRE DEPARTMENT CONNECTION
	AUTO SPEAKER
	PEDESTRIAN LIGHT
	BACKFLOW PREVENTER
	ROOFDRAIN/DOWNSPOUT

C1 EXISTING CONDITION PLAN
1" = 30'



LEGENDS

- PARCEL LINE
- EXIST. OVERHEAD ELECTRIC LINE
- EXIST. UNDERGROUND ELECTRIC LINE
- EXIST. 2" GAS LINE
- EXIST. 4" GAS LINE
- EXIST. 6" GAS LINE
- EXIST. 22" GAS LINE
- EXIST. SANITARY SEWER LINE
- EXIST. 6" WATER LINE
- EXIST. 10" WATER LINE
- EXIST. 12" WATER LINE
- EXIST. 16" WATER LINE
- EXIST. FENCE LINE
- EXIST. GAS LINE
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- EXIST. GUTTER LINE
- EXIST. CURB LINE
- EXIST. DRAIN LINE
- EXIST. CONCRETE LINE



D1 VICINITY MAP
NTS

D2 LEGEND
NTS

PROJECT DATUM: TENNESSEE GRID
NAD 1983 ZONE 4100
NGVD 1983

TOPO NOTE:
1 FOOT CONTOURS AS SHOWN HEREON
DERIVED FROM A RADIAL SURVEY NETWORK,
USING TOPCON ROBOTIC TOTAL STATIONS.

CONTROL DERIVED FROM NETWORK ADJUSTED
REAL-TIME KINEMATIC GPS SURVEY USING
TOPCON HIPER-V DUAL FREQUENCY RECEIVERS

SEWER BASIN ID: NN-2

CONSTRUCTION DOCUMENTS		
REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



THIS PROJECT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE A) PER FLOOD INSURANCE RATE MAP, MAP NUMBER 47157C0410F, DATED SEPTEMBER 28, 2007.

SHEET 3 OF 3
DIVISION OF ENGINEERING
E. MCLEMORE AVE & WILSON ST. - EXISTING CONDITION PLAN
MEMPHIS, TENNESSEE

SURVEY: A2H DATE: 02/03/23 BOOK: _____
DESIGN BY: A2H DATE: 09/10/24 SCALE: 1"=30'
(REVIEWED)

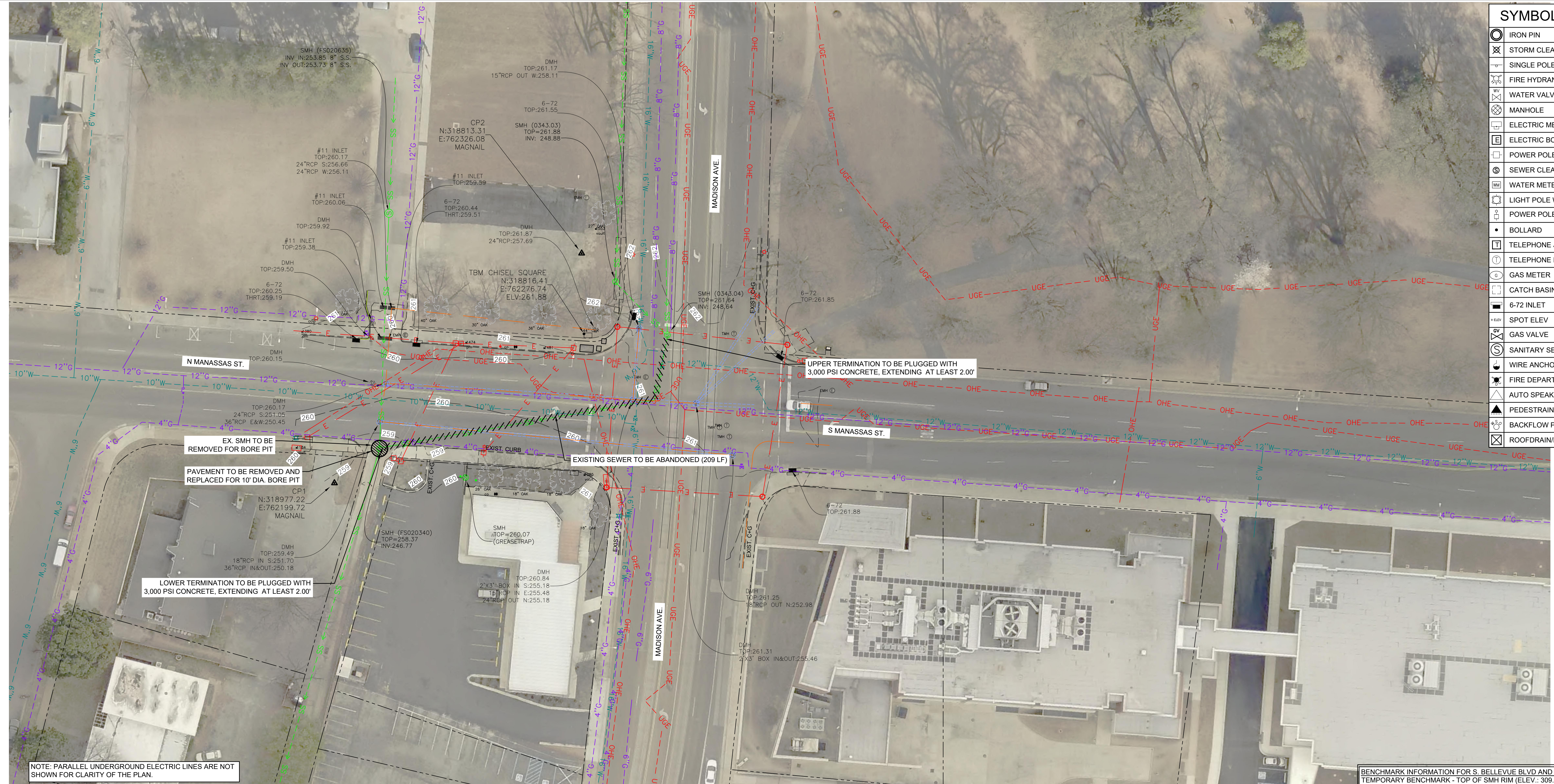
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



DEVELOPER: CITY OF MEMPHIS
ENGINEER: A2H, INC.

PROJECT: SARP10 - GRAVITY SEWER IMPROVEMENT PACKAGE 1 TO C0.3 - EXISTING PLAN.dwg
DATE: 03/03/2025 12:54pm
PLOT SCALE: LATEST REV.

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SYMBOL LEGEND	
	IRON PIN
	STORM CLEANOUT
	SINGLE POLE SIGN
	FIRE HYDRANT
	WATER VALVE
	MANHOLE
	ELECTRIC METER
	ELECTRIC BOX
	POWER POLE
	SEWER CLEAN OUT
	WATER METER
	LIGHT POLE WITH CONC BASE
	POWER POLE WITH LIGHT
	BOLLARD
	TELEPHONE JUNCTION BOX
	TELEPHONE MANHOLE
	GAS METER
	CATCH BASIN
	6-72 INLET
	SPOT ELEV
	GAS VALVE
	SANITARY SEWER MANHOLE
	WIRE ANCHOR
	FIRE DEPARTMENT CONNECTION
	AUTO SPEAKER
	PEDESTRIAN LIGHT
	BACKFLOW PREVENTER
	ROOFDRAIN/DOWNSPOUT

NOTE: PARALLEL UNDERGROUND ELECTRIC LINES ARE NOT SHOWN FOR CLARITY OF THE PLAN.

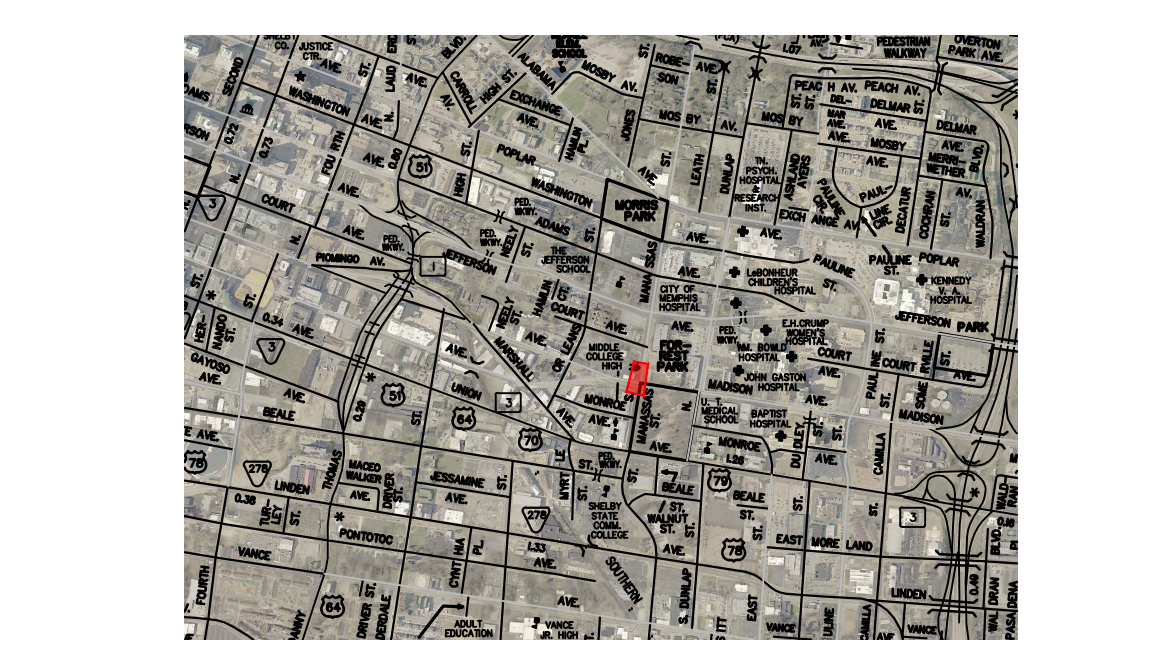
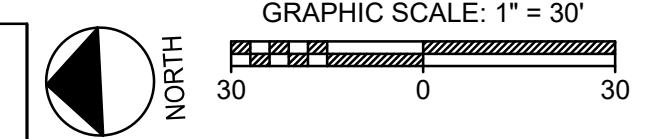
BENCHMARK INFORMATION FOR S. BELLEVUE BLVD AND WALKER ST.
 TEMPORARY BENCHMARK - TOP OF SMH RIM (ELEV.: 309.09) LOCATED AT THE INTERSECTION OF WALKER AVE AND SOUTH BELLEVUE BLVD.

BENCHMARK INFORMATION FOR MADISON AVE AND MANASSAS ST.
 CITY OF MEMPHIS BM- MADISON AVE & DUNLAP ST. CITY CAP IS LOCATED ON THE NE CORNER, SET 06-09-2005. GLUED TO TOP OF CURB, 18' SOUTH OF ER (N: 318723.53; E: 762893.77; ELV: 269.96)

TEMPORARY BENCHMARK - TBM CHISEL SQUARE (N: 318816.407; E: 762276.745; ELEV.: 261.88) LOCATED AT THE NORTHEAST CORNER OF MADISON AVE AND N MANASSAS ST.

BENCHMARK INFORMATION FOR E. MCLEMORE AVE AND WILSON ST.
 TEMPORARY BENCHMARK - CP129/TBM/MAGNAIL (N: 308935.207; E: 766801.804; ELEV.: 294.01) LOCATED APPROX. 250' NORTHWEST FROM THE INTERSECTION OF WILSON ST. AND HALLY PL.

C1 DEMOLITION PLAN
 1" = 30'



D1 VICINITY MAP
 NTS

LEGENDS	
	PARCEL LINE
	EXIST. OVERHEAD ELECTRIC LINE
	EXIST. UNDERGROUND ELECTRIC LINE
	EXIST. 4\"/>
	EXIST. 6\"/>
	EXIST. SANITARY SEWER LINE
	EXIST. 6\"/>
	EXIST. 10\"/>
	EXIST. 12\"/>
	EXIST. 16\"/>
	EXIST. FENCE LINE
	EXIST. GAS LINE
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	EXIST. GUTTER LINE
	EXIST. CURB LINE
	EXIST. DRAIN LINE
	EXIST. CONCRETE LINE

D2 LEGEND
 NTS

PROJECT DATUM:
 TENNESSEE GRID
 NAD 1983 ZONE 4100
 NGVD 1985

TOPO NOTE:
 1 FOOT CONTOURS AS SHOWN HEREON
 DERIVED FROM A RADIAL SURVEY NETWORK,
 USING TOPCON ROBOTIC TOTAL STATIONS.

CONTROL: DERIVED FROM NETWORK ADJUSTED
 REAL-TIME KINEMATIC GPS SURVEY USING
 TOPCON HIPER-V DUAL FREQUENCY RECEIVERS

SEWER BASIN ID: FS-2

CONSTRUCTION DOCUMENTS		
REVISION	DESCRIPTION OF CHANGE	APPROVAL DATE



DEVELOPER: CITY OF MEMPHIS
 ENGINEER: A2H, INC.

THIS PROJECT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE A) PER FLOOD INSURANCE RATE MAP, MAP NUMBER 47157C0270F, DATED SEPTEMBER 28, 2007.

SHEET 2 OF 3
 DIVISION OF ENGINEERING
MADISON AVE & MANASSAS ST. - DEMOLITION PLAN
 MEMPHIS, TENNESSEE

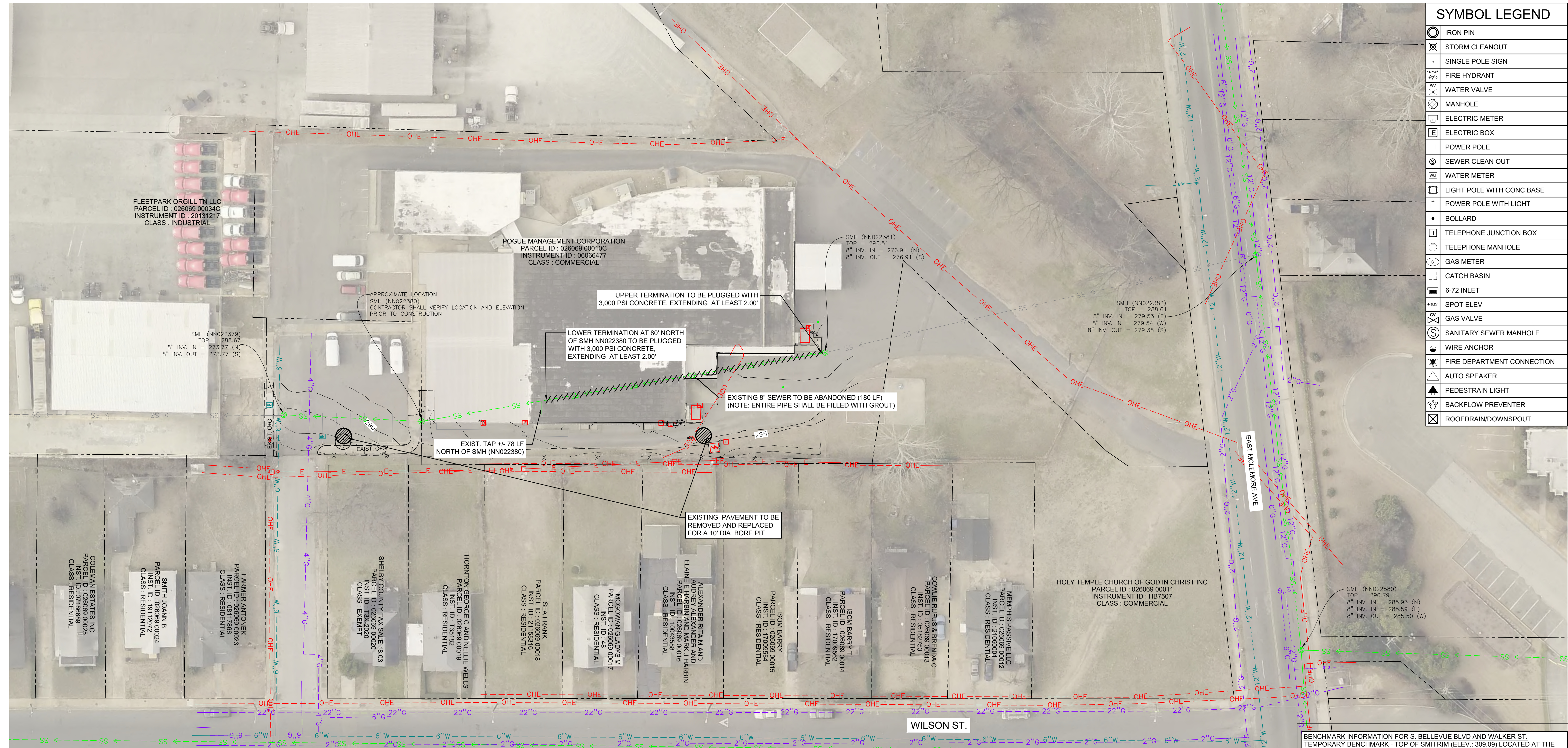
SURVEY: A2H DATE: 02/03/23 BOOK: _____
 DESIGN BY: A2H DATE: 09/10/24 SCALE: 1"=30'
 (REVIEWED)

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

DWG NO. **C1.2**

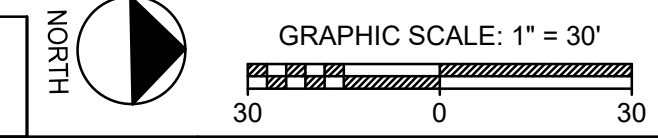
DATE: 09/10/24 09:52 AM C:\projects\2024\10-GRAVITY SEWER IMPROVEMENT\1 TO C1.3 - DEMO PLAN.dwg
 PLOT SCALE: 1"=30'

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SYMBOL LEGEND	
	IRON PIN
	STORM CLEANOUT
	SINGLE POLE SIGN
	FIRE HYDRANT
	WATER VALVE
	MANHOLE
	ELECTRIC METER
	ELECTRIC BOX
	POWER POLE
	SEWER CLEAN OUT
	WATER METER
	LIGHT POLE WITH CONC BASE
	POWER POLE WITH LIGHT
	BOLLARD
	TELEPHONE JUNCTION BOX
	TELEPHONE MANHOLE
	GAS METER
	CATCH BASIN
	6-72 INLET
	SPOT ELEV
	GAS VALVE
	SANITARY SEWER MANHOLE
	WIRE ANCHOR
	FIRE DEPARTMENT CONNECTION
	AUTO SPEAKER
	PEDESTRIAN LIGHT
	BACKFLOW PREVENTER
	ROOFDRAIN/DOWNSPOUT

C1 DEMOLITION PLAN
1" = 30'



D1 VICINITY MAP
NTS

LEGENDS	
	PARCEL LINE
	EXIST. OVERHEAD ELECTRIC LINE
	EXIST. UNDERGROUND ELECTRIC LINE
	EXIST. 2" GAS LINE
	EXIST. 4" GAS LINE
	EXIST. 6" GAS LINE
	EXIST. 22" GAS LINE
	EXIST. SANITARY SEWER LINE
	EXIST. 6" WATER LINE
	EXIST. 10" WATER LINE
	EXIST. 12" WATER LINE
	EXIST. 16" WATER LINE
	EXIST. FENCE LINE
	EXIST. GAS LINE
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	EXIST. GUTTER LINE
	EXIST. CURB LINE
	EXIST. DRAIN LINE
	EXIST. CONCRETE LINE

D2 LEGEND
NTS

PROJECT DATUM:
TENNESSEE GRID
NAD 1983 ZONE 4100
NGVD 1983

TOPO NOTE:
1 FOOT CONTOURS AS SHOWN HEREON
DERIVED FROM A RADIAL SURVEY NETWORK,
USING TOPCON ROBOTIC TOTAL STATIONS.

**CONTROL DERIVED FROM NETWORK ADJUSTED
REAL-TIME KINEMATIC GPS SURVEY USING
TOPCON HIPER-V DUAL FREQUENCY RECEIVERS**

SEWER BASIN ID: NN-2

CONSTRUCTION DOCUMENTS		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



DEVELOPER: CITY OF MEMPHIS
ENGINEER: A2H, INC.

BENCHMARK INFORMATION FOR S. BELLEVUE BLVD AND WALKER ST.
TEMPORARY BENCHMARK - TOP OF SMH RIM (ELEV.: 309.09) LOCATED AT THE
INTERSECTION OF WALKER AVE AND SOUTH BELLEVUE BLVD.

BENCHMARK INFORMATION FOR MADISON AVE AND MANASSAS ST.
CITY OF MEMPHIS BM- MADISON AVE & DUNLAP ST. CITY CAP IS LOCATED ON
THE NE CORNER, SET 06-09-2005. GLUED TO TOP OF CURB, 18" SOUTH OF ER (N:
318723.53; E: 762893.77; ELV: 269.96)

TEMPORARY BENCHMARK - TBM CHISEL SQUARE (N: 318816.407; E: 762276.745;
ELEV.: 261.88) LOCATED AT THE NORTHEAST CORNER OF MADISON AVE AND N
MANASSAS ST.

BENCHMARK INFORMATION FOR E. MCLEMORE AVE AND WILSON ST.
TEMPORARY BENCHMARK - CP129/TBM/MAGNAIL (N: 308935.207; E: 766801.804;
ELEV.: 294.01) LOCATED APPROX. 250' NORTHWEST FROM THE INTERSECTION
OF WILSON ST. AND HALLY PL.

THIS PROJECT IS NOT LOCATED IN A SPECIAL FLOOD
HAZARD AREA (ZONE A) PER FLOOD INSURANCE RATE MAP,
MAP NUMBER 47157C0410F, DATED SEPTEMBER 28, 2007.

SHEET 3 OF 3
DIVISION OF ENGINEERING
**E. MCLEMORE AVE & WILSON ST. -
DEMOLITION PLAN**
MEMPHIS, TENNESSEE

SURVEY: A2H DATE: 02/03/23 BOOK: _____
DESIGN BY: A2H DATE: 09/10/24 SCALE: 1"=30'
(REVIEWED)

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

DWG. NO.
C1.3

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SYMBOL LEGEND	
	IRON PIN
	STORM CLEANOUT
	SINGLE POLE SIGN
	FIRE HYDRANT
	WATER VALVE
	MANHOLE
	ELECTRIC METER
	ELECTRIC BOX
	POWER POLE
	SEWER CLEAN OUT
	WATER METER
	LIGHT POLE WITH CONC BASE
	POWER POLE WITH LIGHT
	BOLLARD
	TELEPHONE JUNCTION BOX
	TELEPHONE MANHOLE
	GAS METER
	CATCH BASIN
	6-72 INLET
	SPOT ELEV
	GAS VALVE
	SANITARY SEWER MANHOLE
	WIRE ANCHOR
	FIRE DEPARTMENT CONNECTION
	AUTO SPEAKER
	PEDESTRIAN LIGHT
	BACKFLOW PREVENTER
	ROOFDRAIN/DOWNSPOUT

NOTE: CONTRACTOR TO PROVIDE APPROPRIATE EROSION CONTROL PROTECTION AROUND ANY EXCAVATED MATERIALS.

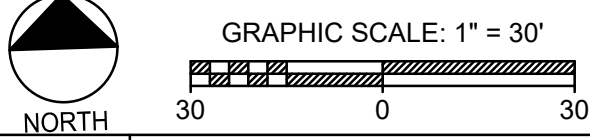
BENCHMARK INFORMATION FOR S. BELLEVUE BLVD AND WALKER ST.
TEMPORARY BENCHMARK - TOP OF SMH RIM (ELEV.: 309.09) LOCATED AT THE INTERSECTION OF WALKER AVE AND SOUTH BELLEVUE BLVD.

BENCHMARK INFORMATION FOR MADISON AVE AND MANASSAS ST.
CITY OF MEMPHIS BM- MADISON AVE & DUNLAP ST. CITY CAP IS LOCATED ON THE NE CORNER, SET 06-09-2005. GLUED TO TOP OF CURB, 18' SOUTH OF ER (N: 318723.53; E: 762893.77; ELV: 269.96)

TEMPORARY BENCHMARK - TBM CHISEL SQUARE (N: 318816.407'; E: 762276.745'; ELEV.: 261.88) LOCATED AT THE NORTHEAST CORNER OF MADISON AVE AND N MANASSAS ST.

BENCHMARK INFORMATION FOR E. MCLEMORE AVE AND WILSON ST.
TEMPORARY BENCHMARK - CP129/TBM/MAGNAIL (N: 308935.207'; E: 766801.804'; ELEV.: 294.01) LOCATED APPROX. 250' NORTHWEST FROM THE INTERSECTION OF WILSON ST. AND HALLY PL.

C1 EROSION CONTROL PLAN



1" = 30'



D1 VICINITY MAP

LEGENDS	
	PARCEL LINE
	EXIST. OVERHEAD ELECTRIC LINE
	EXIST. UNDERGROUND ELECTRIC LINE
	EXIST. 4" GAS LINE
	EXIST. 6" GAS LINE
	EXIST. SANITARY SEWER LINE
	PROP. SANITARY SEWER LINE
	EXIST. 6" WATER LINE
	EXIST. 10" WATER LINE
	EXIST. 12" WATER LINE
	EXIST. 16" WATER LINE
	EXIST. FENCE LINE
	EXIST. GAS LINE
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	EXIST. GUTTER LINE
	EXIST. CURB LINE
	EXIST. DRAIN LINE
	EXIST. CONCRETE LINE

D2 LEGEND

PROJECT DATUM:
TENNESSEE GRID
NAD 1983 ZONE 4100
NGVD 1983

CONTROL DERIVED FROM NETWORK ADJUSTED REAL-TIME KINEMATIC GPS SURVEY USING TOPCON HIPER-V DUAL FREQUENCY RECEIVERS

CONSTRUCTION DOCUMENTS		
REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

SEWER BASIN ID: FS-3



DEVELOPER: CITY OF MEMPHIS
ENGINEER: A2H, INC.



THIS PROJECT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE A) PER FLOOD INSURANCE RATE MAP, MAP NUMBER 47157C0410F, DATED SEPTEMBER 28, 2007.

DWG NO. **C4.1**

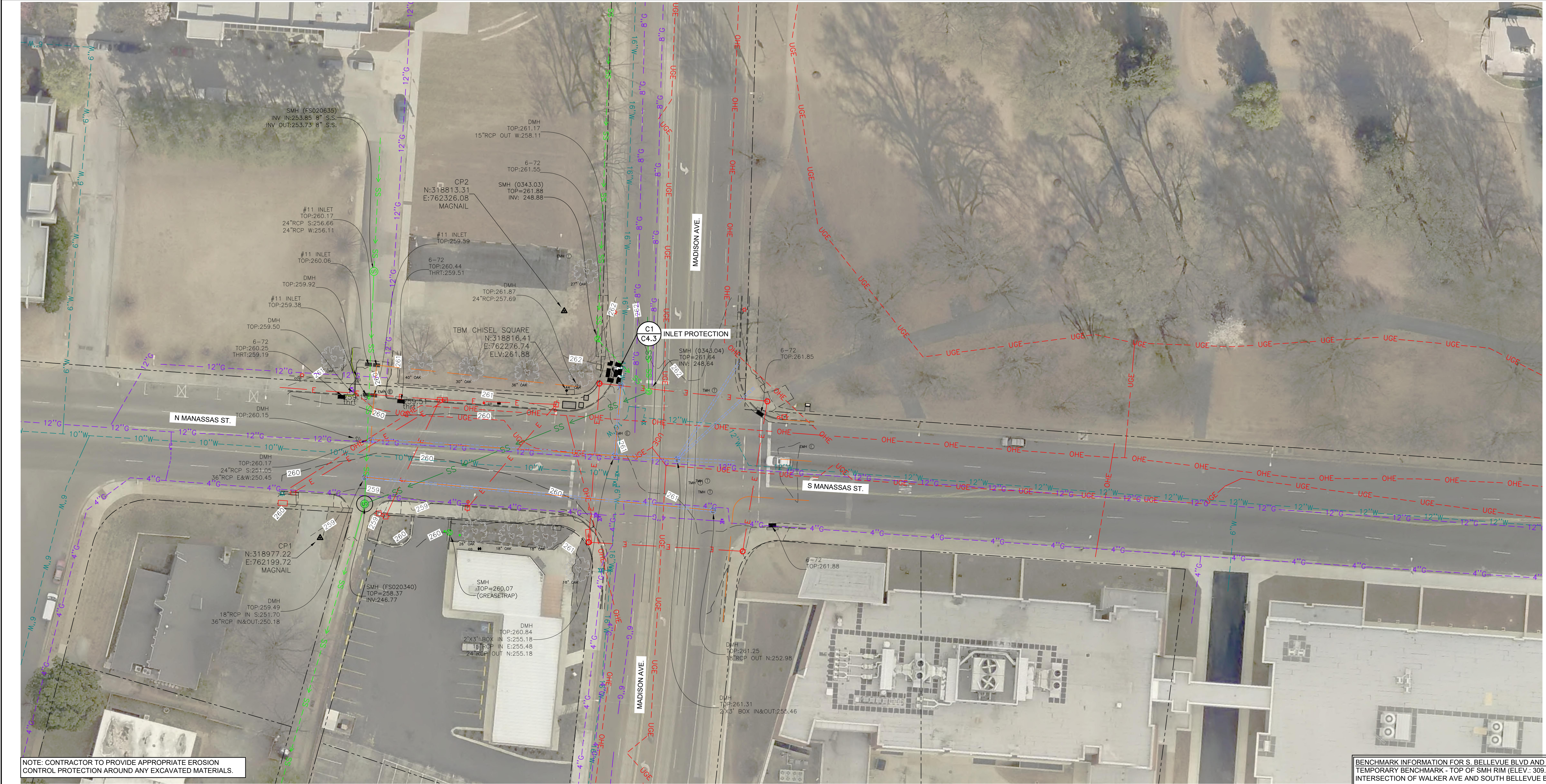
SHEET 1 OF 3
DIVISION OF ENGINEERING
S. BELLEVUE BLVD & WALKER ST. - EROSION CONTROL PLAN
MEMPHIS, TENNESSEE

SURVEY: A2H DATE: 02/03/23 BOOK:
DESIGN BY: A2H DATE: 09/10/24 SCALE: 1"=30' (REVIEWED)

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

DATE: 09/10/24 09:52:00 AM C:\projects\10-gravity-sewer-program\1 TO C4.3 - EROSION CONTROL PLAN.dwg LATEST REV. PLOT SCALE: 1"=30'

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NOTE: CONTRACTOR TO PROVIDE APPROPRIATE EROSION CONTROL PROTECTION AROUND ANY EXCAVATED MATERIALS.

BENCHMARK INFORMATION FOR S. BELLEVUE BLVD AND WALKER ST.
 TEMPORARY BENCHMARK - TOP OF SMH RIM (ELEV.: 309.09) LOCATED AT THE INTERSECTION OF WALKER AVE AND SOUTH BELLEVUE BLVD.

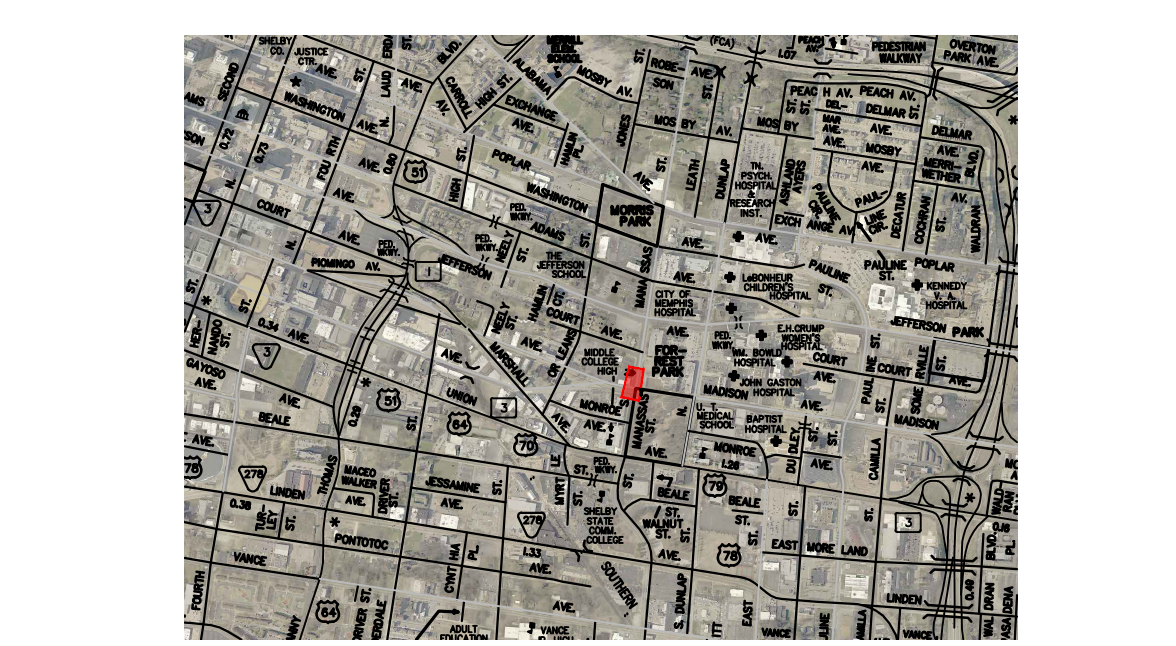
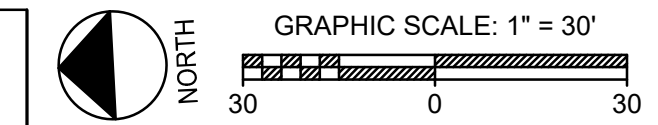
BENCHMARK INFORMATION FOR MADISON AVE AND MANASSAS ST.
 CITY OF MEMPHIS BM- MADISON AVE & DUNLAP ST. CITY CAP IS LOCATED ON THE NE CORNER, SET 06-09-2005. GLUED TO TOP OF CURB, 18' SOUTH OF ER (N: 318723.53; E: 762893.77; ELV: 269.96)

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C1 EROSION CONTROL PLAN

1" = 30'



LEGENDS

---	PARCEL LINE
---	EXIST. OVERHEAD ELECTRIC LINE
---	EXIST. UNDERGROUND ELECTRIC LINE
---	EXIST. 4" GAS LINE
---	EXIST. 6" GAS LINE
---	EXIST. SANITARY SEWER LINE
---	PROP. SANITARY SEWER LINE
---	EXIST. 6" WATER LINE
---	EXIST. 10" WATER LINE
---	EXIST. 12" WATER LINE
---	EXIST. 16" WATER LINE
---	EXIST. FENCE LINE
---	EXIST. GAS LINE
---	MAJOR CONTOUR LINE
---	MINOR CONTOUR LINE
---	EXIST. GUTTER LINE
---	EXIST. CURB LINE
---	EXIST. DRAIN LINE
---	EXIST. CONCRETE LINE

D1 VICINITY MAP

D2 LEGEND

PROJECT DATUM:
 TENNESSEE GRID
 NAD 1983 ZONE 4100
 NGVD 1983

TOPO NOTE:
 1 FOOT CONTOURS AS SHOWN HEREON
 DERIVED FROM A RADIAL SURVEY NETWORK,
 USING TOPCON ROBOTIC TOTAL STATIONS.

CONTROL DERIVED FROM NETWORK ADJUSTED
 REAL-TIME KINEMATIC GPS SURVEY USING
 TOPCON HIPER-V DUAL FREQUENCY RECEIVERS

SEWER BASIN ID: FS-2

CONSTRUCTION DOCUMENTS

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



SARP10 - GRAVITY SEWER IMPROVEMENT PACKAGE B
 DEVELOPER: CITY OF MEMPHIS
 ENGINEER: A2H, INC.

THIS PROJECT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE A) PER FLOOD INSURANCE RATE MAP, MAP NUMBER 47157C0270F, DATED SEPTEMBER 28, 2007.

SHEET 2 OF 3
 DIVISION OF ENGINEERING
MADISON AVE & MANASSAS ST. - EROSION CONTROL PLAN
 MEMPHIS, TENNESSEE

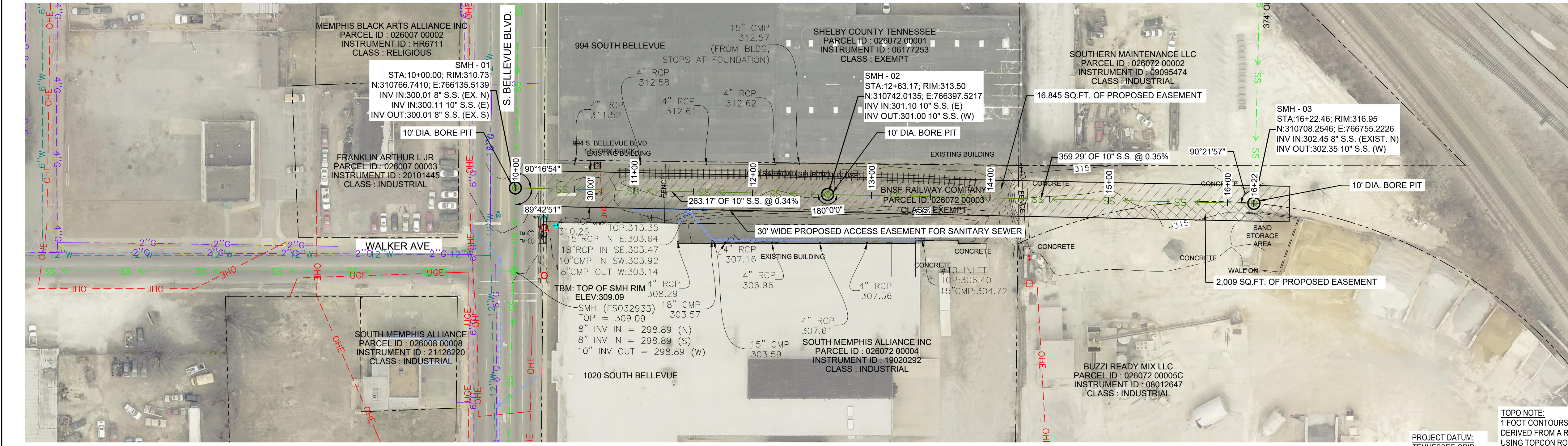
SURVEY: A2H DATE: 02/03/23 BOOK: _____
 DESIGN BY: A2H DATE: 09/10/24 SCALE: 1"=30'
 (REVIEWED)

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

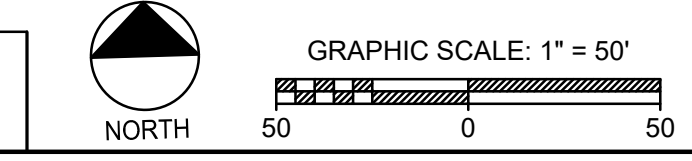
DWG NO. **C4.2**

J:\MIS\11151056-00\GIS\GIS\SEWER\PROGRAM\C1 TO C4.3 - EROSION CONTROL PLAN.dwg
 WAK 13 NOV 2024 - 3:21 PM
 LATEST REV.

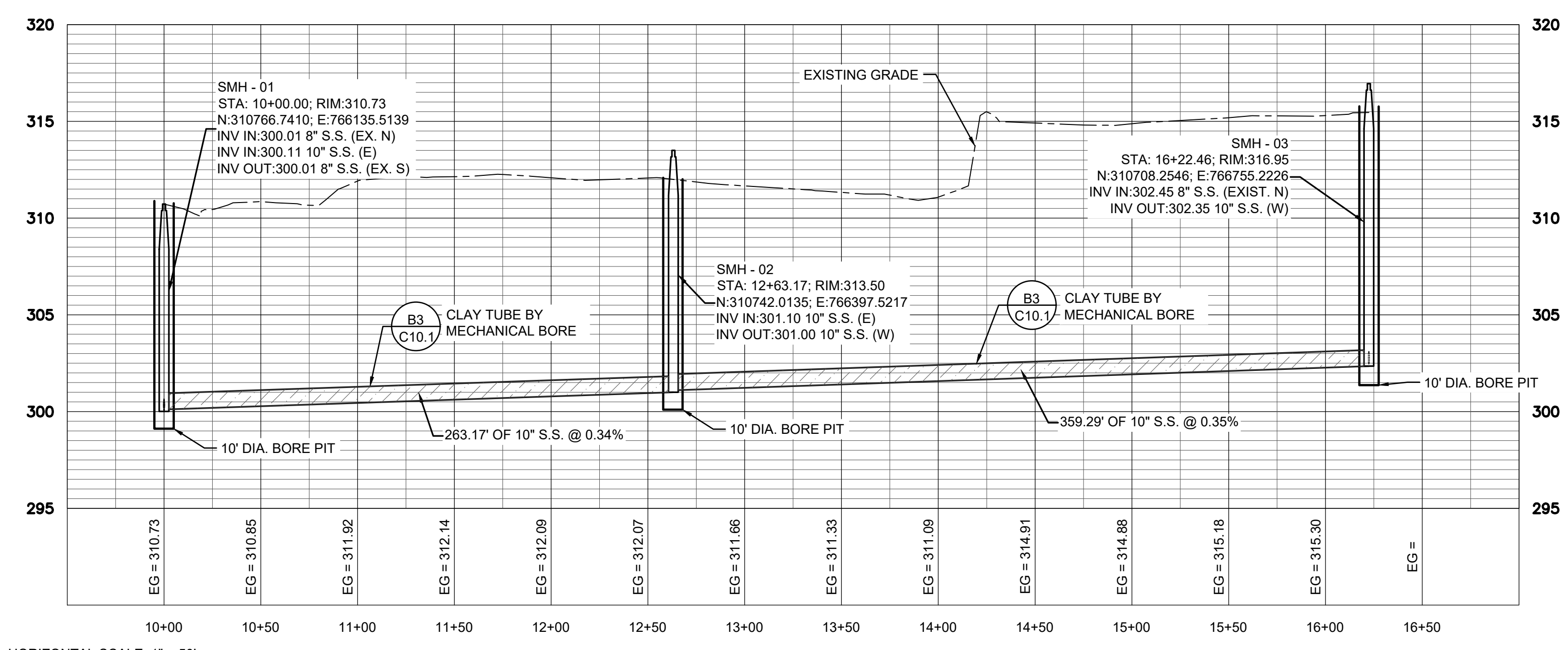
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B1 PLAN VIEW
1" = 50'



NOTE REGARDING 1020 SOUTH BELLEVUE
PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL:
1. COORDINATE WITH PROPERTY OWNER AND THE CITY OF MEMPHIS TO FIELD VERIFY SEWER SERVICE LOCATION AND DEPTH FOR 1020 S. BELLEVUE.
2. NOTIFY THE CITY OF MEMPHIS OF ANY CONFLICTS WITH THE CONSTRUCTION DRAWINGS.



C1 PROFILE VIEW
1" = 50' H/5' V
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

- NOTE:**
MECHANICAL BORE METHOD (DIRECT JACK PIPE)
- 1. PREPARATION:**
 - 1.1. EXCAVATE AND PREPARE JACKING AND RECEIVING PITS AT BOTH ENDS OF THE PROPOSED SEWER LINE.
 - 1.2. ENSURE ACCURATE ALIGNMENT AND SLOPE CONTROL FOR THE PIPE INSTALLATION.
 - 2. JACKING EQUIPMENT:**
 - 2.1. SET UP HYDRAULIC JACKING EQUIPMENT IN THE JACKING PIT TO PUSH THE CLAY PIPE THROUGH THE SOIL TO THE RECEIVING PIT.
 - 2.2. ATTACH A SUITABLE CUTTING HEAD TO THE LEADING EDGE OF THE FIRST PIPE SEGMENT TO AID SOIL DISPLACEMENT.
 - 3. PIPE INSTALLATION:**
 - 3.1. UTILIZE HYDRAULIC JACKS TO DIRECTLY JACK THE CLAY PIPE INTO THE SOIL, CREATING A BOREHOLE AS THE PIPE IS PUSHED THROUGH.
 - 3.2. PROVIDE CONTINUOUS SUPPORT TO THE CLAY PIPE TO PREVENT DAMAGE AND ENSURE IT FOLLOWS THE DESIRED ALIGNMENT AND SLOPE.
 - 4. SPOIL REMOVAL:**
 - 4.1. REMOVE EXCAVATED SOIL (SPOIL) FROM THE BOREHOLE THROUGH THE PIPE ITSELF OR BY USING A VACUUM SYSTEM, ENSURING A CLEAR PATH FOR THE PIPE.
 - 5. SUBSEQUENT PIPE SEGMENTS:**
 - 5.1. SECURELY CONNECT SUBSEQUENT CLAY PIPE SEGMENTS AS THEY ARE JACKED THROUGH THE BOREHOLE, MAINTAINING CONTINUOUS SUPPORT.
 - 5.2. ENSURE JOINTS BETWEEN PIPE SEGMENTS ARE PROPERLY SEALED TO PREVENT INFILTRATION.
 - 6. COMPLETION:**
 - 6.1. AFTER THE ENTIRE LENGTH OF THE PIPE IS INSTALLED, PERFORM NECESSARY FINISHING OPERATIONS SUCH AS SEALING JOINTS AND INSPECTING THE ALIGNMENT AND GRADE.
 - 6.2. RESTORE THE JACKING AND RECEIVING PITS AND ANY DISTURBED AREAS TO THEIR ORIGINAL CONDITION.

SYMBOL LEGEND

	IRON PIN
	STORM CLEANOUT
	SINGLE POLE SIGN
	FIRE HYDRANT
	WATER VALVE
	MANHOLE
	ELECTRIC METER
	ELECTRIC BOX
	POWER POLE
	SEWER CLEAN OUT
	WATER METER
	LIGHT POLE WITH CONC BASE
	POWER POLE WITH LIGHT
	BOLLARD
	TELEPHONE JUNCTION BOX
	TELEPHONE MANHOLE
	GAS METER
	CATCH BASIN
	6-72 INLET
	SPOT ELEV
	GAS VALVE
	SANITARY SEWER MANHOLE
	WIRE ANCHOR
	FIRE DEPARTMENT CONNECTION
	AUTO SPEAKER
	PEDESTRIAN LIGHT
	BACKFLOW PREVENTER
	ROOFDRAIN/DOWNSPOUT

- TYPICAL CONSTRUCTION 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 LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, TEXAS GAS COMPANY, AND/OR CITY OF MEMPHIS SEWER, PLEASE CALL 811.
 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 SARP-10 CONSTRUCTION MANAGER AT 901-452-2385 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' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P.) 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 SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.
 14. TRACER WIRE SHALL BE INSTALLED ALONG THE LENGTH OF ALL SEWER PIPES, SERVICE CONNECTIONS, MANHOLES, AND STUBS PER STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD SHEET SST-17.

LEGENDS

	PARCEL LINE
	EXIST. OVERHEAD ELECTRIC LINE
	EXIST. UNDERGROUND ELECTRIC LINE
	EXIST. 2" GAS LINE
	EXIST. 4" GAS LINE
	EXIST. 6" GAS LINE
	EXIST. SANITARY SEWER LINE
	PROPOSED SANITARY SEWER LINE
	EXIST. 6" WATER LINE
	EXIST. 10" WATER LINE
	EXIST. 12" WATER LINE
	EXIST. 16" WATER LINE
	EXIST. FENCE LINE
	EXIST. GAS LINE
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	EXIST. GUTTER LINE
	EXIST. CURB LINE
	EXIST. DRAIN LINE
	EXIST. CONCRETE LINE

D1 LEGEND
NTS

D2 TYPICAL CONSTRUCTION NOTES
NTS

SEWER BASIN ID: FS-3

CONSTRUCTION DOCUMENTS

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



THIS PROJECT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE A) PER FLOOD INSURANCE RATE MAP, MAP NUMBER 47157C0410F, DATED SEPTEMBER 28, 2007.

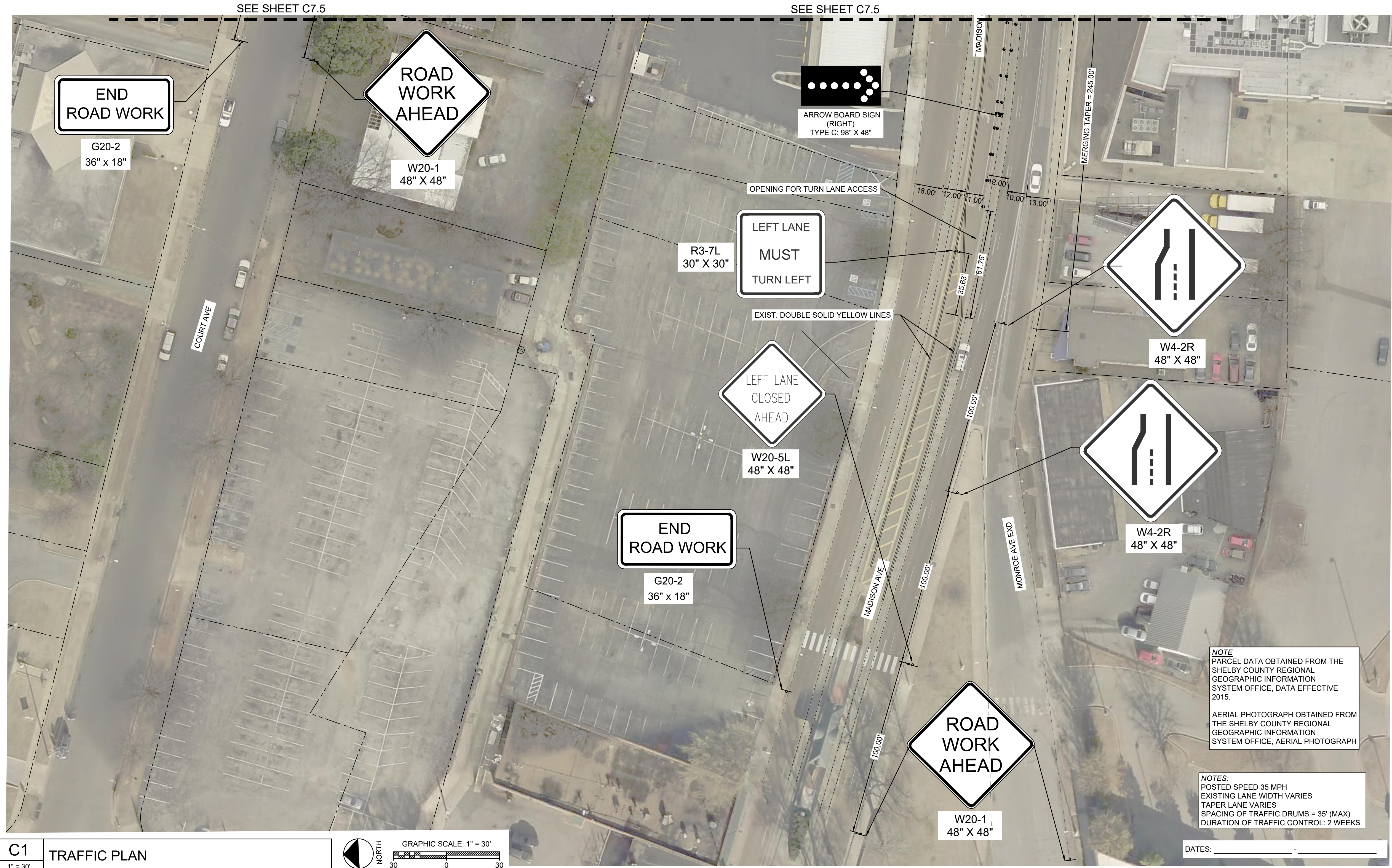
DWG. NO. **C5.1**

SHEET 1 OF 1
DIVISION OF ENGINEERING
S. BELLEVUE BLVD & WALKER ST. - PLAN AND PROFILE
MEMPHIS, TENNESSEE
SURVEY: A2H DATE: 02/03/23 BOOK: _____
DESIGN BY: A2H DATE: 09/10/24 SCALE: 1" = 50'
(REVIEWED)
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



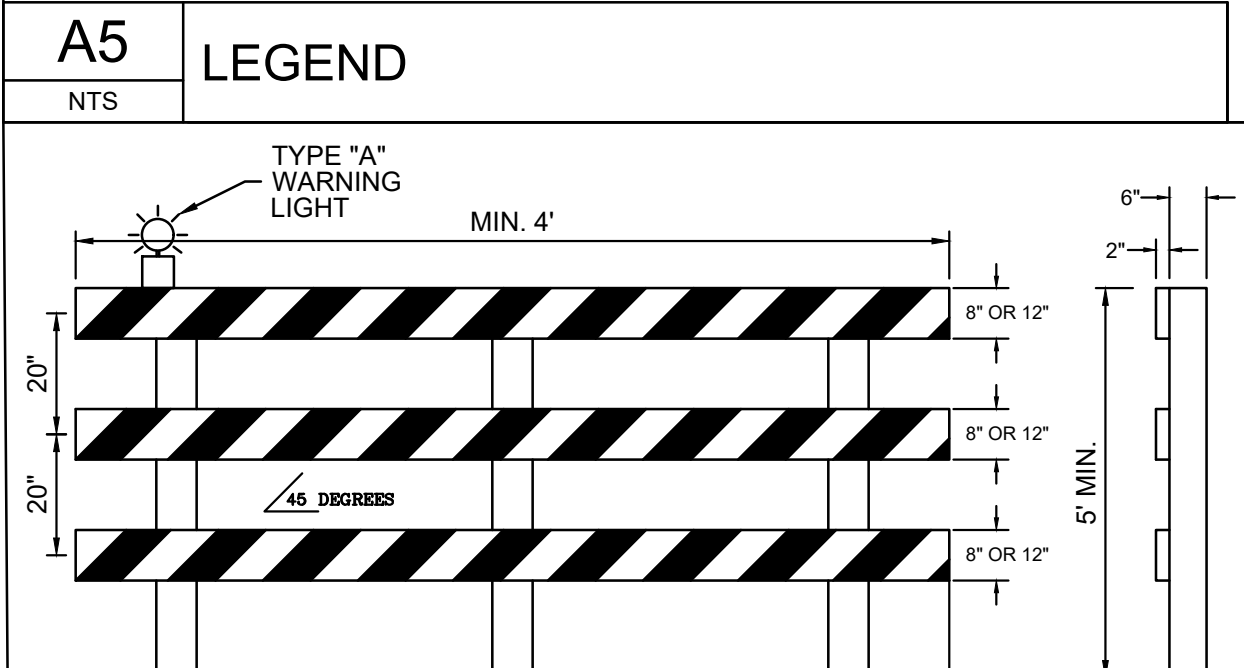
SARP-10 - GRAVITY SEWER IMPROVEMENT PACKAGE B
DEVELOPER: CITY OF MEMPHIS
ENGINEER: A2H, INC.

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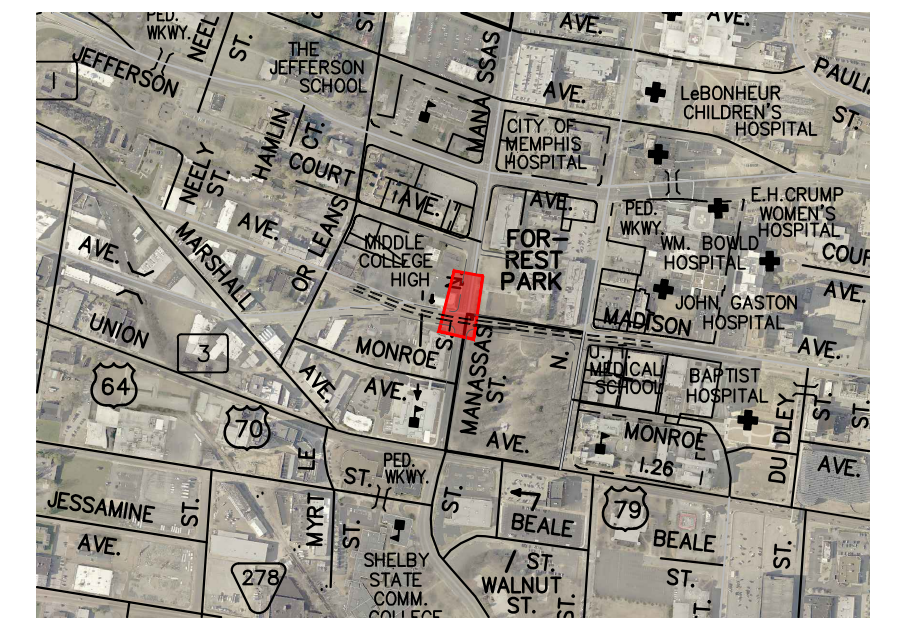
LEGEND

- TRAFFIC DRUMS WITH TYPE "A" WARNING LIGHT TO BE SETUP PRIOR TO WORK.
- TRAFFIC CONTROL SIGN
- WORK ZONE
- EXIST. SINGLE SOLID WHITE LINE (SSWL)
- EXIST. SINGLE SOLID YELLOW LINE (SSYL)
- EXIST. DOUBLE SOLID YELLOW LINE (DSYL)
- TEMPORARY PROP. SINGLE SOLID WHITE LINE (SSWL)
- TEMPORARY PROP. DOUBLE SOLID YELLOW LINE (SSYL)
- PARCEL LINE



NOTE: FOR WOODEN BARRICADES NOMINAL LUMBER DIMENSIONS WILL BE SATISFACTORY THE ENTIRE AREA OF ORANGE AND WHITE SHALL BE REFLECTORIZED WITH A MATERIAL THAT HAS A SMOOTH, SEALED OUTER SURFACE WHICH WILL DISPLAY THE SAME APPROXIMATE SIZE, SHAPE AND COLOR DAY AND NIGHT. THE PREDOMINANT COLOR FOR OTHER BARRICADE COMPONENTS SHALL BE WHITE.

B5 TYPE III BARRICADE



C5 VICINITY MAP

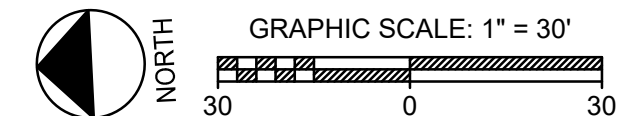
BENCHMARK INFORMATION FOR S. BELLEVUE BLVD AND WALKER ST. TEMPORARY BENCHMARK - TOP OF SMH RIM (ELEV.: 309.09) LOCATED AT THE INTERSECTION OF WALKER AVE AND SOUTH BELLEVUE BLVD.

BENCHMARK INFORMATION FOR MADISON AVE AND MANASSAS ST. CITY OF MEMPHIS BM- MADISON AVE & DUNLAP ST. CITY GAP IS LOCATED ON THE NE CORNER, SET 06-09-2005. GLUED TO TOP OF CURB, 18' SOUTH OF ER (N: 318723.53; E: 762893.77; ELV: 269.96)

TEMPORARY BENCHMARK - TBM CHISEL SQUARE (N: 318816.407; E: 762276.745; ELEV.: 261.88) LOCATED AT THE NORTHEAST CORNER OF MADISON AVE AND N MANASSAS ST.

BENCHMARK INFORMATION FOR E. MCLEMORE AVE AND WILSON ST. TEMPORARY BENCHMARK - CP129/TBM/MACNAIL (N: 308935.207; E: 766801.804; ELEV.: 294.01) LOCATED APPROX. 250' NORTHWEST FROM THE INTERSECTION OF WILSON ST. AND HALLY PL.

C1 TRAFFIC PLAN



- TRAFFIC CONTROL PLAN NOTES**
- SEE SECTION 6F.03, SIGN PLACEMENT, OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR INFORMATION ON PLACEMENT AND MOUNTING OF SIGNS.
 - SIGNS SHOWN ON THIS PLAN ARE TO WARN TRAFFIC ABOUT THE CONSTRUCTION. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
 - 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 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
 - CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION DEPARTMENT (636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (636-6710) A 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.
 - SIZES OF ALL SIGNS SHALL COMPLY WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE 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.
 - ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
 - SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
 - 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.
 - CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "A" WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.

- 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.
- THE CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS TRAFFIC ENGINEERING DEPARTMENT AT 901-636-6710 AT LEAST ONE WEEK PRIOR TO IMPLEMENTING THE TRAFFIC CONTROL PLAN TO DETERMINE FEES ASSOCIATED WITH ANY ENGINEERING PERMITS REQUIRED (I.E. DUMPSTER PERMITS, PARKING FEES, ETC.).
- TWO-WAY TRAFFIC SHALL BE MAINTAINED ON MADISON AVE, N MANASSAS ST., AND S MANASSAS ST. AT ALL TIMES.
- DURING CONSTRUCTION, A MINIMUM OF ONE 10 FOOT LANE OF TRAFFIC SHALL REMAIN OPEN TO BOTH DIRECTIONS OF TRAFFIC AT ALL TIMES.
- ALL TEMPORARY OR PERMANENT TRAVELED SURFACE SHALL BE INSPECTED DAILY BY THE CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR RE-FINISHING PERFORMED.
- MARKINGS SHALL BE MAINTAINED IN LONG-TERM STATIONARY WORK AREAS AND SHALL MATCH AND MEET THE MARKINGS IN PLACE AT BOTH ENDS OF THE WORK AREA.
- CENTERLINE/LANE LINES SHOULD BE PLACED, REPLACED, OR DELINEATED WHERE APPROPRIATE BEFORE THE ROADWAY IS OPENED TO TRAFFIC.
- CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS SIGNAL SHOP AT 528-2844 FOR LOCATION OF SIGNAL CONDUIT AND WIRES.
- 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.
- OBLITERATED MARKINGS SHALL BE UNIDENTIFIABLE AS PAVEMENT MARKINGS UNDER DAY OR NIGHT, WET OR DRY CONDITIONS. OVERLAYING EXISTING STRIPES WITH BLACK PAINT OR ASPHALT DOES NOT MEET THE REQUIREMENTS OF COVERING, REMOVAL, OR OBLITERATION; HOWEVER, THE USE OF REMOVABLE, NONREFLECTIVE, PREFORMED TAPE IS PERMITTED WHERE MARKINGS NEED TO BE COVERED TEMPORARILY.
- 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.
- ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETROREFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TEMPORARY STRIPING SHALL BE PREFORMED TAPE.

- 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.
- ANY CLOSURE OF THE RIGHT OF WAY SHALL BE TIME LIMITED TO THE ACTIVE DEMOLITION OR CONSTRUCTION. CONTINUOUS UNWARRANTED CLOSURE OF THE 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 (636-2462) ON THE JOB.
- THE CONTRACTOR WILL MAINTAIN ACCESS FOR CITY OF MEMPHIS SIGNAL CREWS TO PERFORM MAINTENANCE ON THE SIGNAL POLES IN AFFECTED AREA.
- THE CONTRACTOR SHALL NOTIFY MEMPHIS AREA TRANSIT AUTHORITY (MATA) AT 722-7100 A MINIMUM OF 48 HOURS PRIOR TO IMPLEMENTING A TRAFFIC CONTROL PLAN.
- WORK WITHIN THE ROADWAY SHALL BE CONDUCTED BETWEEN 9:00 A.M. AND 4:00 P.M. AND THE ROADWAY SHALL BE COMPLETELY OPEN TO TRAFFIC AT ALL OTHER TIMES AND ALL INAPPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
- IF CONSTRUCTION ACTIVITIES REQUIRE OVER-NIGHT CLOSURE OF ANY PORTION OF THE ROADWAY, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER'S OFFICE.
- THE CONTRACTOR SHALL CONTACT EXPLORE BIKE SHARE AT LEAST 48 HOURS PRIOR TO IMPLEMENTING TRAFFIC CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING (TEMPORARY/PERMANENTLY) AND DAMAGING THE EQUIPMENT THAT IS IN CITY'S RIGHT-OF-WAY.
- ONLY ONE PHASE OF TRAFFIC CONTROL PLAN SHALL BE ACTIVE AT ANY TIME.

NOTE: PARCEL DATA OBTAINED FROM THE SHELBY COUNTY REGIONAL GEOGRAPHIC INFORMATION SYSTEM OFFICE, DATA EFFECTIVE 2015.

AERIAL PHOTOGRAPH OBTAINED FROM THE SHELBY COUNTY REGIONAL GEOGRAPHIC INFORMATION SYSTEM OFFICE, AERIAL PHOTOGRAPH

NOTES:
 POSTED SPEED 35 MPH
 EXISTING LANE WIDTH VARIES
 TAPER LANE VARIES
 SPACING OF TRAFFIC DRUMS = 35' (MAX)
 DURATION OF TRAFFIC CONTROL: 2 WEEKS

DATES: _____

CONSTRUCTION DOCUMENTS

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



THIS PROJECT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE A) PER FLOOD INSURANCE RATE MAP, MAP NUMBER 47157C0270F, DATED SEPTEMBER 28, 2007.

DWG NO. **C7.6**

SHEET 6 OF 6
 DIVISION OF ENGINEERING
MADISON AVE & MANASSAS ST. - TRAFFIC PLAN
 MEMPHIS, TENNESSEE

SURVEY: _____ A2H DATE: 02/03/23 BOOK: _____
 DESIGN BY: _____ A2H DATE: 09/10/24 SCALE: 1"=30'
 (REVIEWED)

CITY TRAFFIC ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____

D1 TRAFFIC CONTROL NOTES

A2H
 ENGINEERS - ARCHITECTS - PLANNERS
 4800 Poplar Avenue
 Memphis, TN 38117
 901.521.9864
 www.a2h.com

DEVELOPER: CITY OF MEMPHIS
 ENGINEER: A2H, INC.

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TYPICAL PRECAST MANHOLE

ALTERNATE MANHOLE

MANHOLE COATING NOTE: OUTSIDE COATING OF MANHOLE SHALL BE WITH ASPHALTIC BLACK, AS AVAILABLE AT UNITED PAINT COMPANY.

METHOD OF APPLICATION SHALL BE PERFORMED BY BRUSH OR BY LOW PRESSURE SPAYER.

MANHOLE COATING NOTE: (MANHOLES IN EXCESS OF 20' DEEP)

NOTES:
 T. CAST IRON STEPS STAGGERED LATERALLY 12" C-C & UNIFORMLY SPACED VERTICALLY AT 16" O.C. MAXIMUM - SEE "MANHOLE STEPS" NOTE BELOW

JOINT SEALANT: CONCRETE MORTAR SHALL BE USED TO SEAL JOINTS AFTER THE INSTALLATION OF AN APPROVED GASKET MATERIAL BETWEEN ALL PRECAST MANHOLE SECTIONS.

BASE SECTIONS: MANHOLE BOTTOM SHALL NOT BE POURED UNTIL PRECAST BASE SECTION OF MANHOLE AND PIPE STUBS OUT & IN ARE IN PLACE. PIPE STUBS OUTSIDE OF MANHOLE SHALL HAVE A MINIMUM LENGTH OF 12" AND A MAXIMUM LENGTH OF 15" FROM OUTSIDE OF MANHOLE TO THE FIRST JOINT OF PIPE. CONCRETE USED TO FORM BASES AND INVERTS SHALL BE 3,000 p.s.i.

SUBSTITUTES: POURED-IN-PLACE MANHOLES MAY BE SUBSTITUTED FOR PRECAST MANHOLES, PROVIDED A FORMAL, WRITTEN REQUEST HAS BEEN SUBMITTED TO & APPROVED BY THE ENGINEER OF DESIGN. ALL POURED-IN-PLACE MANHOLES SHALL CONFORM TO CITY OF MEMPHIS STANDARD DRAWINGS NO. SST-6 AND SST-7.

SARP10
 PRECAST SANITARY MANHOLE SST-1

BLACK & VEATCH
 Building a world of difference

SCALE: NOT TO SCALE

RIM AND COVER FOR SANITARY MANHOLE

REVISIONS

NO.	DATE	BY	REMARKS

CONVERSIONS

ENGLISH	METRIC

CITY OF MEMPHIS
 DIVISION OF PUBLIC WORKS

DESIGN STANDARD
 FOR
 BOLTED DOWN
 RIM AND COVER
 FOR SANITARY MANHOLE

PRINCIPAL CIVIL ENGR. DATE: 1-21-80
 DEPUTY DIR./CIVIL ENGR. DATE: 1-21-80
 12-7-77 DWG. NO. SST-8

SEWER PIPE ABANDONMENT UNDER BUILDING

NOTE: SEWER PIPE THAT RUN UNDER BUILDING MUST BE COMPLETELY FILLED WITH GROUT.

B3 RIM AND COVER FOR SANITARY MANHOLE
 NTS

B5 SEWER PIPE ABANDONMENT UNDER BUILDING
 NTS

B1 PRECAST SANITARY SEWER MANHOLE
 NTS

CITY OF MEMPHIS DETAIL SST-10

REVISIONS

NO.	DATE	BY	REMARKS

CONVERSIONS

ENGLISH	METRIC

CITY OF MEMPHIS
 DIVISION OF PUBLIC WORKS

DESIGN STANDARD
 FOR
 ABANDONED MANHOLES

12-7-77 DWG. NO. SST-10

D4 CITY OF MEMPHIS DETAIL SST-10
 NTS

SANITARY SEWER BEDDING

REVISIONS

NO.	DATE	BY	REMARKS
1	5/87	D.B.	To Show Class B.1, B.2, & C

CONVERSIONS

ENGLISH	METRIC

CITY OF MEMPHIS
 DIVISION OF PUBLIC WORKS

DESIGN STANDARD
 FOR
 1. SMALL DIA. SEWER BEDDING
 2. CONCRETE ENCASUREMENT

PRINCIPAL CIVIL ENGR. DATE: 1-21-80
 DEPUTY DIR./CIVIL ENGR. DATE: 1-21-80
 12-7-77 DWG. NO. SST-3

D1 SANITARY SEWER BEDDING
 NTS

CONSTRUCTION DOCUMENTS

REVISION	ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

DWG NO. **C10.0**

SHEET 1 OF 3
 DIVISION OF ENGINEERING

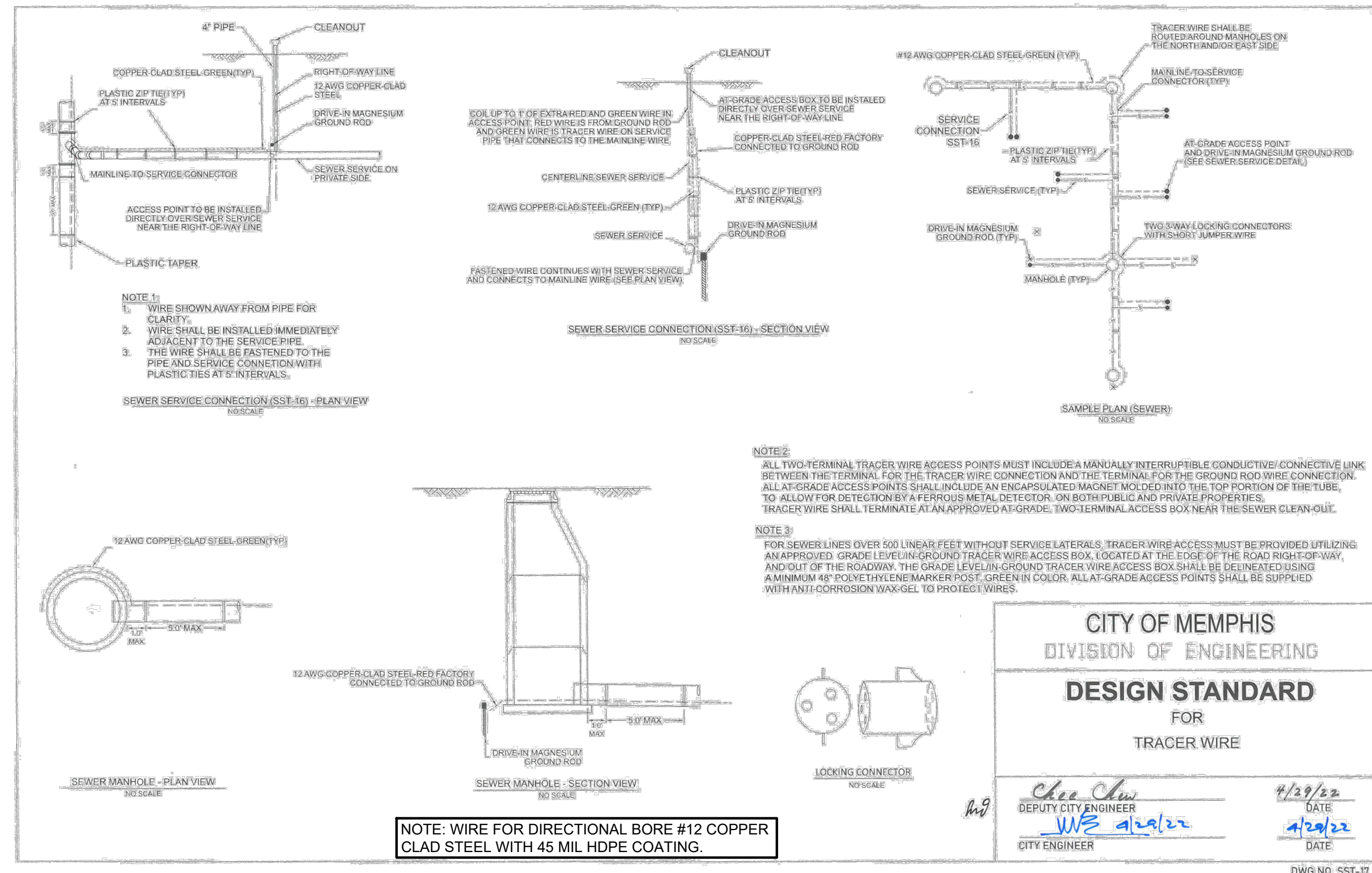
DETAILS
 MEMPHIS, TENNESSEE

SURVEY: A2H DATE: 02/03/23 BOOK: _____
 DESIGN BY: A2H DATE: 09/10/24 SCALE: NTS
 (REVIEWED)

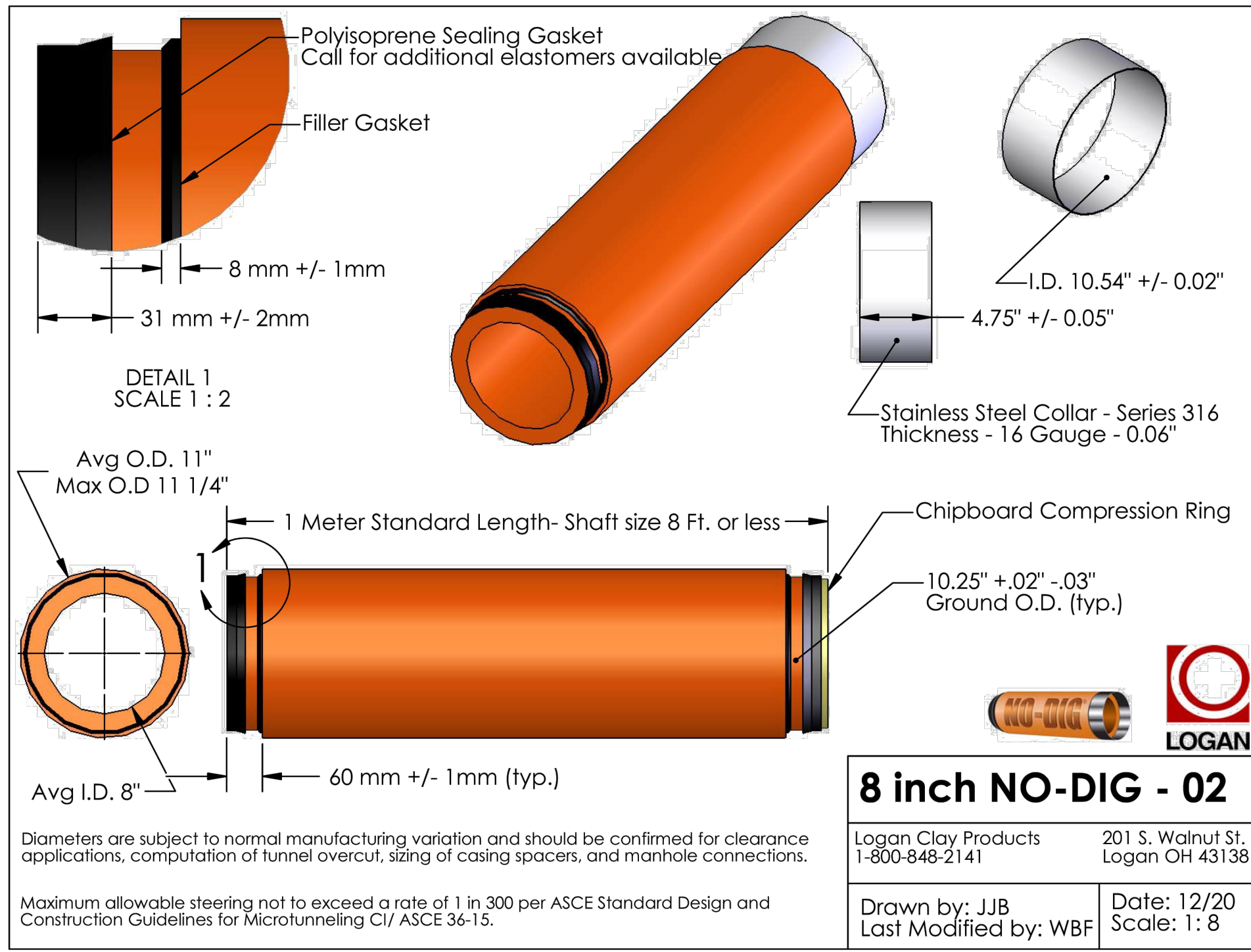
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

A2H
 ENGINEERS - ARCHITECTS - PLANNERS

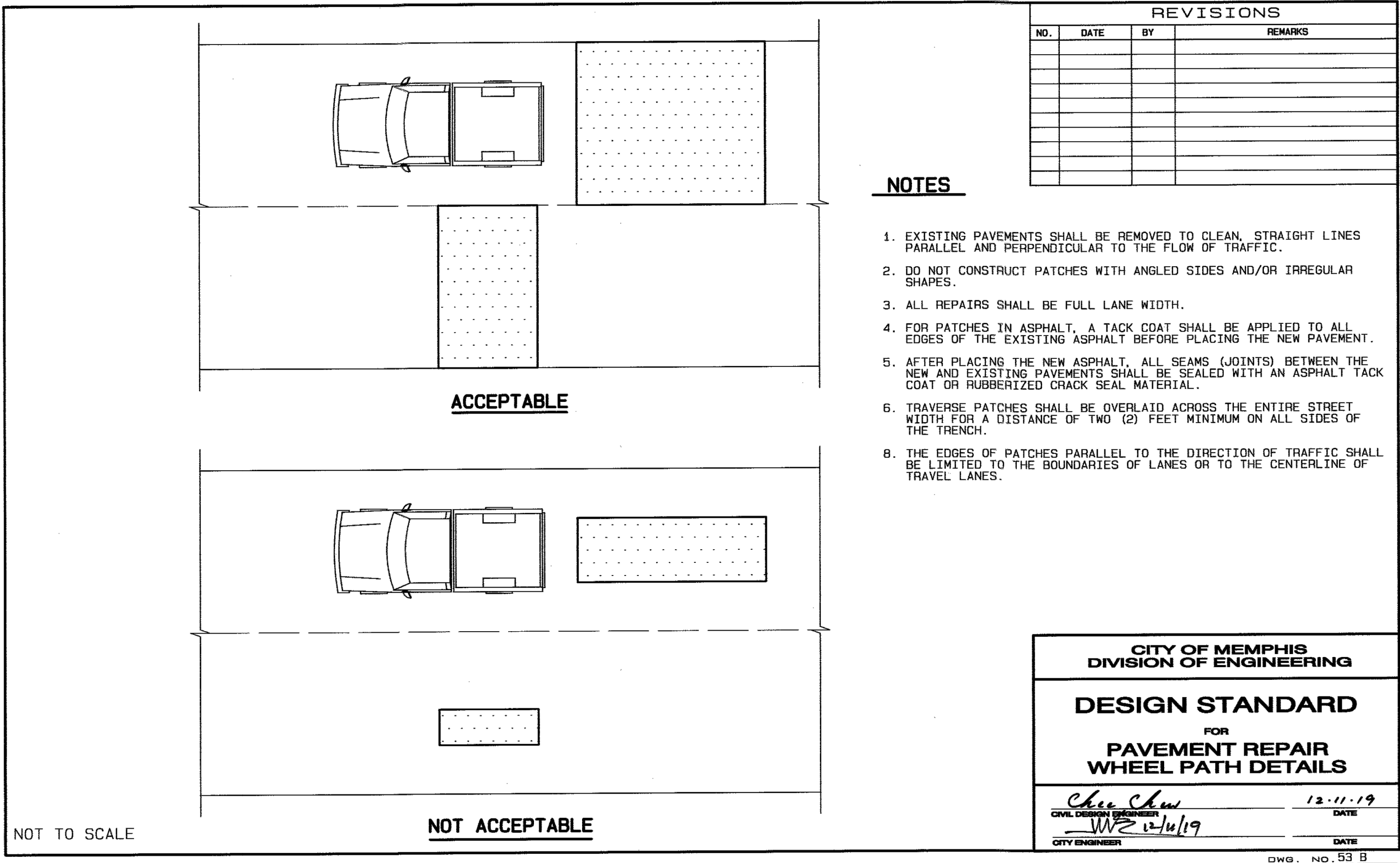
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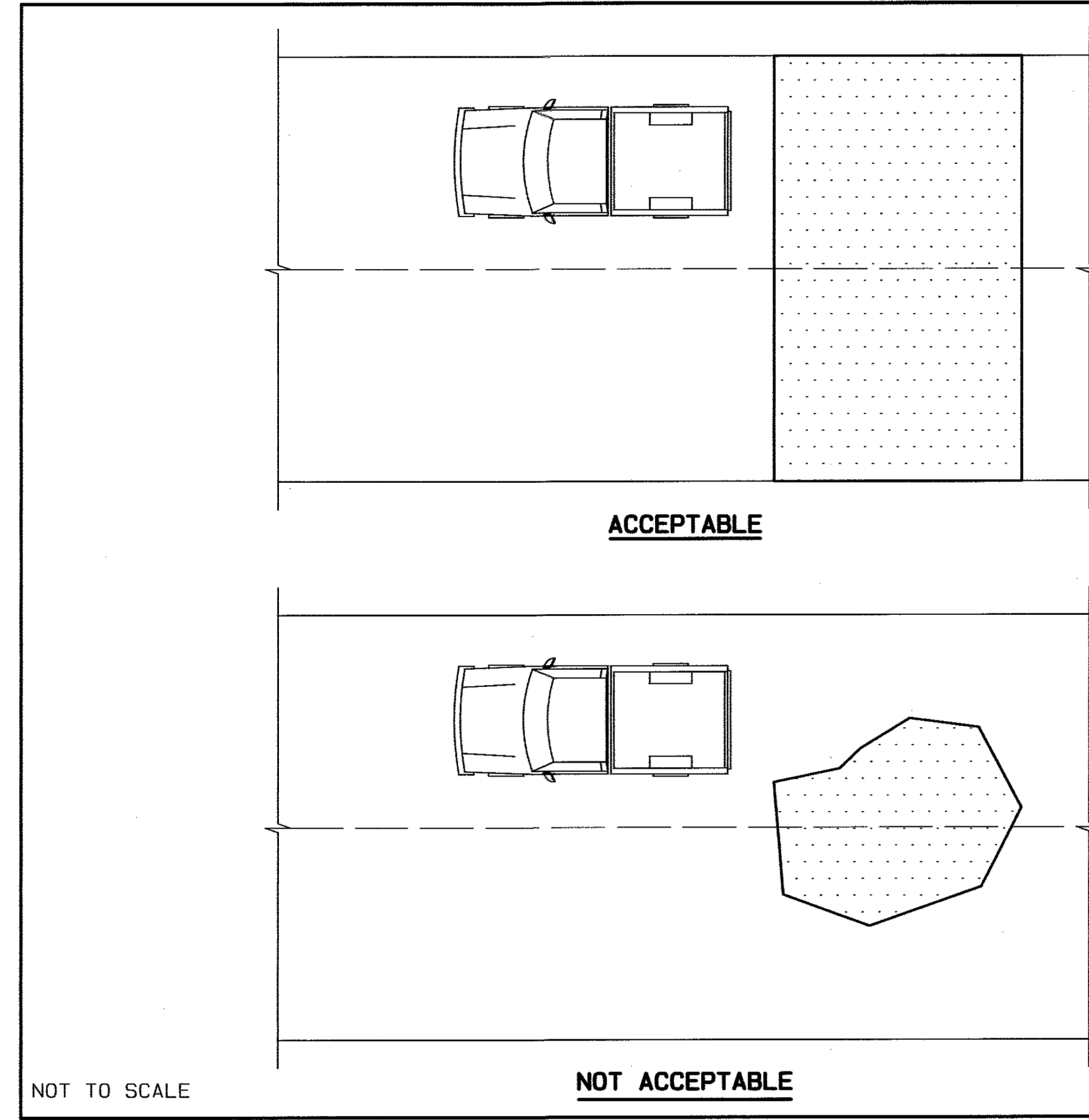
B1 TRACER WIRE DETAILS
NTS



B3 CLAY TUBE BY MECHANICAL BORING
NTS



D1 PAVEMENT REPAIR WHEEL PATH DETAILS
NTS



D3 PAVEMENT REPAIR MULTILANE DETAILS
NTS

CONSTRUCTION DOCUMENTS

REVISION	ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

**CITY OF MEMPHIS
DIVISION OF ENGINEERING**

**DESIGN STANDARD
FOR
PAVEMENT REPAIR
MULTI-LANE DETAILS**

Chae Chew 12-11-19 DATE
CIVIL DESIGN ENGINEER
WV 12/16/19 DATE
CITY ENGINEER

DWG. NO. 53 B

SARP 10 - GRAVITY SEWER IMPROVEMENT PACKAGE B

DEVELOPER: CITY OF MEMPHIS
ENGINEER: A2H, INC.

DWG NO. C10.1

SHEET 2 OF 3
DIVISION OF ENGINEERING

**DETAILS
MEMPHIS, TENNESSEE**

SURVEY: A2H DATE: 02/03/23 BOOK: _____
 DESIGN BY: A2H DATE: 09/10/24 SCALE: NTS
 (REVIEWED)

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



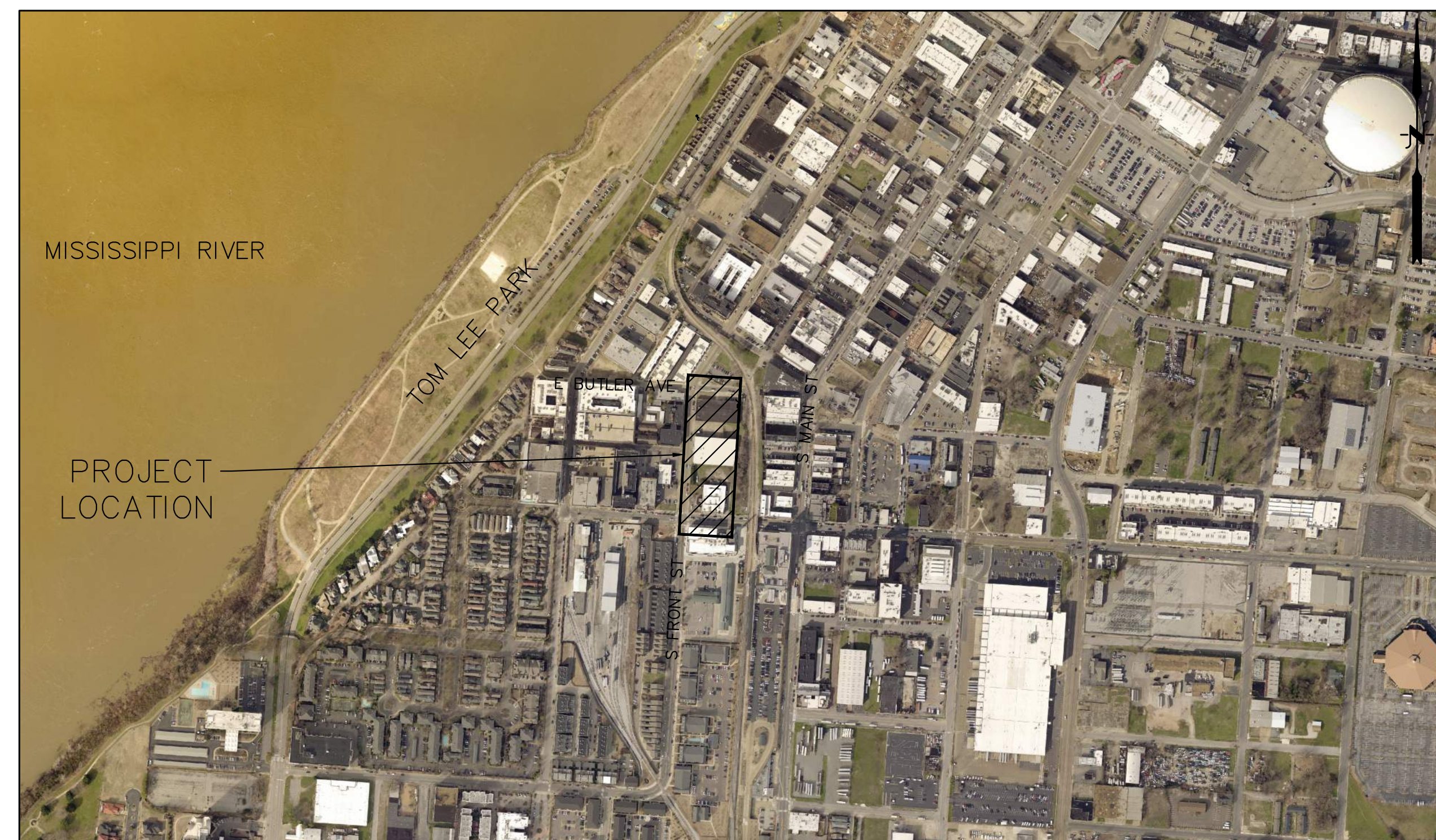
CITY OF MEMPHIS, TENNESSEE



SOUTH FRONT STREET SEWER RELOCATION

PROJECT NUMBER 290-23-001

100% DESIGN



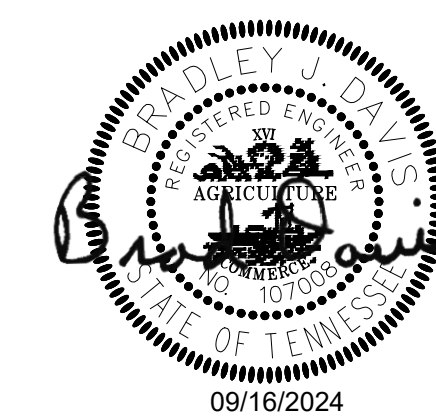
LOCATION MAP

NOT TO SCALE

ABES ENGINEERING INC.

2500 MOUNT MORIAH RD STE H229, MEMPHIS, TN 38115

Sheet List Table	
Sheet Number	Sheet Title
G000	COVER
G001	GENERAL NOTES
C101	EXISTING CONDITIONS
C102	GRAVITY SEWER PLAN & PROFILE
C103	GRAVITY SEWER ABANDONMENT PLAN
C104	EROSION PREVENTION & SEDIMENT CONTROL PLAN
C105	PAVING PLAN
C500	DETAILS 1
C501	DETAILS 2
C700	TRAFFIC CONTROL PLAN PHASE 1
C701	TRAFFIC CONTROL PLAN PHASE 2
C702	TRAFFIC CONTROL PLAN PHASE 3
C703	TRAFFIC CONTROL SIGNS



FILE: ABES PRODUCTION\ACTIVE PROJECTS\290_A2H\PN 290-23-001 SOUTH FRONT STREET SEWER RELOCATION\WORKING\CAD\GOOD COVER AND GENERAL NOTE.dwg DATE: 2024-11-15 TIME: 1:17:05 PM USER: NICK WONG

PROJECT SPECIFICATIONS

CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS. ANY SPECIFICATION SECTIONS NOT INCLUDED IN THE PROJECT SPECIFICATIONS ARE CONSIDERED INCLUDED BY REFERENCE. CITY OF MEMPHIS SPECIFICATIONS ARE AVAILABLE AT: WWW.MEMPHISTN.GOV/GOVERNMENT/ENGINEERING/CONSTRUCTION-INSPECTIONS/SPECIFICATIONS/

FEMA NOTE

THE PROPERTY SHOWN HEREON DOES NOT GRAPHICALLY FALL WITHIN A SPECIAL FLOOD HAZARD AREA PER FEMA FIRM MAP PANEL 47157C0270F, DATED 09/28/2007. THIS AREA IS INSIDE OTHER AREA, ZONE X, WHICH DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. NEAREST B.F.E. IS ZONE AE.

CITY OF MEMPHIS BENCHMARK

6397-61 FRONT STREET & VANCE - CITY MONUMENT IS LOCATED ON THE SE COR., 4" X 4" CONC. POST WITH BRASSCAP/NIPPLE AT BACK S/WALK AT MID POINT. ELEV: 282.50 (NAVD88)

GENERAL NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL EXISTING WATER AND GAS VALVE BOXES AND COVERS, WATER METER BOXES AND LIDS, MANHOLE RINGS AND COVERS, CLEAN OUT CAPS, AND OTHER UTILITY FEATURES SO THEY MATCH THE NEW FINISHED GRADE.
- 2. THE CONTRACTOR WILL REMOVE ALL OBSTRUCTIONS FROM THE PATH OF THE PROPOSED WORK INCLUDING FENCES, TREES AND RETAINING WALLS. IF, DURING THE PROCESS OF PLANNING THE WORK, THE CONTRACTOR BECOMES AWARE OF AN OBSTRUCTION, THE OWNER SHOULD BE NOTIFIED IMMEDIATELY AND GIVEN ENOUGH TIME TO REMOVE THE OBSTRUCTION BEFORE WORK BEGINS.
- 3. A MINIMUM OF 24-HOURS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS OR SARP10 CONSTRUCTION INSPECTION OFFICE AT (901) 636-2462.
- 4. THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- 5. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. 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 PERIMETERS, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING THE WORK ON THE PROJECT. FOR SITE LOCATION OF EXISTING UTILITIES INVOLVING MLG&W AT SOUTH FRONT STREET, AND/OR BOARDWALK PIPELINES COMPANY, AND CITY OF MEMPHIS SEWER. PLEASE CALL 811.
- 6. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS FOR THE CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS.
- 7. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- 8. CONTRACTOR SHALL NOT ENTER UPON, WORK UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT PRIOR PERMISSION FROM SAID PROPERTY OWNER.
- 9. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG THE PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
- 10. VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY OWNER OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.
- 11. ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- 12. CONTRACTOR IS RESPONSIBLE FOR AND SHALL PAY FOR PROJECT TESTING, SOIL AND OTHER MATERIAL TESTING SHALL BE PERFORMED BY A LICENSED GEOTECHNICAL FIRM.
- 13. CONTRACTOR IS RESPONSIBLE FOR AND SHALL PAY FOR ALL SURVEY LAYOUT AND STAKING. SURVEY DATA SHALL BE PROVIDED BY A REGISTERED LAND SURVEYOR.
- 14. CONTRACTOR SHALL PROVIDE AMPLE BARRICADES TO PREVENT THE PUBLIC FROM ENTERING THE PROJECT AREA. BARRICADES, BARRELS, TRAFFIC SIGNS, ETC., SHALL HAVE LIGHTS AS NECESSARY TO WARN THE PUBLIC OF CONSTRUCTION HAZARDS AND RE-DIRECT THEM AWAY AND AROUND THE CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH GOVERNMENTAL AUTHORITIES FOR ANY WORK OR INCURSION WITHIN STREETS OR PUBLIC RIGHT OF WAY.
- 15. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MUTCD. A CLEAN AND SAFE PATH FOR PEDESTRIANS MUST BE MAINTAINED AROUND WORK ZONES AT ALL TIMES.
- 16. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

ROW NOTE:

- 1. PLEASE BE ADVISE THAT A BUILDING PERMIT ISSUED BY THE MEMPHIS/SHELBY COUNTY OFFICE OF CONSTRUCTION CODE ENFORCEMENT DOES NOT ALLOW FOR ALTERNATIONS AND/OR IMPROVEMENTS TO ANY RIGHT-OF-WAY (ROW) MAINTAINED BY THE CITY OF MEMPHIS. ALTERNATIONS AND/OR IMPROVEMENTS TO THE CITY OF MEMPHIS ROW INCLUDE BUT ARE NOT LIMITED TO WORK PERFORMED ON SIDEWALKS, CURB AND GUTTER, DRIVE APRONS AND UTILITY TIE-INS. ROW PERMITS MUST BE OBTAINED FROM THE CITY OF MEMPHIS CITY ENGINEER'S OFFICE AT (901) 636-6700.

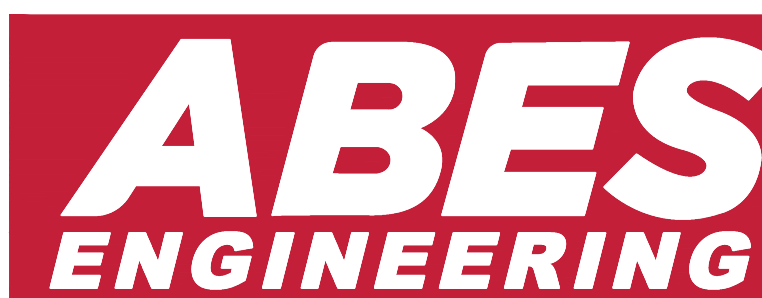
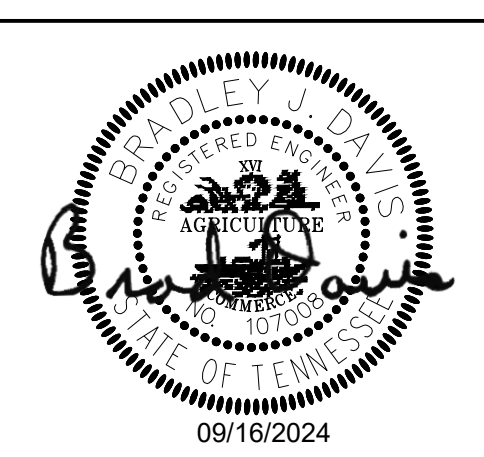
SEWER CONSTRUCTION NOTES:

- 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 LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH FRONT STREET, BOARDWALK PIPELINES COMPANY, AND/OR CITY OF MEMPHIS SEWER, PLEASE CALL 811.
- 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 SARP10 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' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P) 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, FENCES 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 SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.
- 14. TRACER WIRE SHALL BE INSTALLED ALONG THE LENGTH OF ALL SEWER PIPES, SERVICE CONNECTIONS, MANHOLES AND STUBS PER STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAIL (SST-17).

TRAFFIC CONTROL PLAN NOTES:

- 1. SEE SECTION 6F.03, SIGN PLACEMENT, OF THE 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 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
- 4. CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION DEPARTMENT (636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (636-6710) A 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 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 6. ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE 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. DRUMS WITH TYPE "A" WARNING LIGHTS SHALL DELINEATE THE EDGE OF PAVEMENT THROUGH THE ENTIRE CONSTRUCTION AREA.
- 12. 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.
- 13. CONTRACTOR SHALL INSTALL TEMPORARY NO PARKING SIGNS AS REQUIRED WITHIN THE TRAFFIC CONTROL AREA.
- 14. WORK WITHIN THE ROADWAY DURING DIFFERENT PHASES OF CONSTRUCTION SHALL NOT BE ACTIVE AT THE SAME TIME.
- 15. ONLY ONE PHASE OF THE TRAFFIC CONTROL PLAN SHALL BE ACTIVE AT ANY ONE TIME.
- 16. MARKINGS SHALL BE MAINTAINED IN LONG-TERM STATIONARY WORK AREAS AND SHALL MATCH AND MEET THE MARKINGS IN PLACE AT BOTH ENDS OF THE WORK AREA.
- 17. CENTERLINE/LANE LINES SHOULD BE PLACED, REPLACED, OR DELINEATED WHERE APPROPRIATE BEFORE THE ROADWAY IS OPENED TO TRAFFIC.
- 18. CONTRACTOR SHALL CONTACT ALL APPROPRIATE AGENCIES BEFORE CLOSING ANY ROADWAYS.
- 19. CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS SIGNAL SHOP AT 528-2844 FOR LOCATION OF SIGNAL CONDUIT AND WIRES.
- 20. 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.
- 21. OBLITERATED MARKINGS SHALL BE UNIDENTIFIABLE AS PAVEMENT MARKINGS UNDER DAY OR NIGHT, WET OR DRY CONDITIONS. OVERLAYING EXISTING STRIPES WITH BLACK PAINT OR ASPHALT DOES NOT MEET THE REQUIREMENTS OF COVERING, REMOVAL, OR OBLITERATION; HOWEVER, THE USE OF REMOVABLE, NONREFLECTIVE, PREFORMED TAPE IS PERMITTED WHERE MARKINGS NEED TO BE COVERED TEMPORARILY.
- 22. 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.
- 23. ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETRO REFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 24. 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. IF A TEMPORARY SIDEWALK IS PROVIDED, IT SHALL BE ADA ACCESSIBLE AND A MINIMUM 5 FEET WIDE PEDESTRIAN PATHWAY.
- 25. ANY CLOSURE OF THE RIGHT OF WAY SHALL BE TIME LIMITED TO THE ACTIVE DEMOLITION OR CONSTRUCTION. CONTINUOUS UNWARRANTED CLOSURE OF THE RIGHT OF WAY SHALL NOT BE ALLOWED FOR THE DURATION OF THE PROJECT. TIME LIMITS WILL BEGIN ON THE DAY OF CLOSURE AND WILL BE MONITORED BY THE ENGINEERING CONSTRUCTION INSPECTORS (636-2462) ON THE JOB.
- 26. ALL TEMPORARY OR PERMANENT TRAVELED SURFACE SHALL BE INSPECTED DAILY BY THE CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR RE-FINISHING PERFORMED.
- 27. THE CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS TRAFFIC ENGINEERING DEPARTMENT AT 901-636-6710 AT LEAST ONE WEEK PRIOR TO CLOSING ANY ROADWAYS SO A PRESS RELEASE/NOTIFICATION CAN BE ISSUED AND CIRCULATED.
- 28. THE CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS TRAFFIC ENGINEERING DEPARTMENT AT 901-636-6710 AT LEAST ONE WEEK PRIOR TO IMPLEMENTING THE TRAFFIC CONTROL PLAN TO DETERMINE FEES ASSOCIATED WITH ANY ENGINEERING PERMITS REQUIRED (I.E. DUMPSTER PERMITS, PARKING METER FEES, ETC.).
- 29. 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.

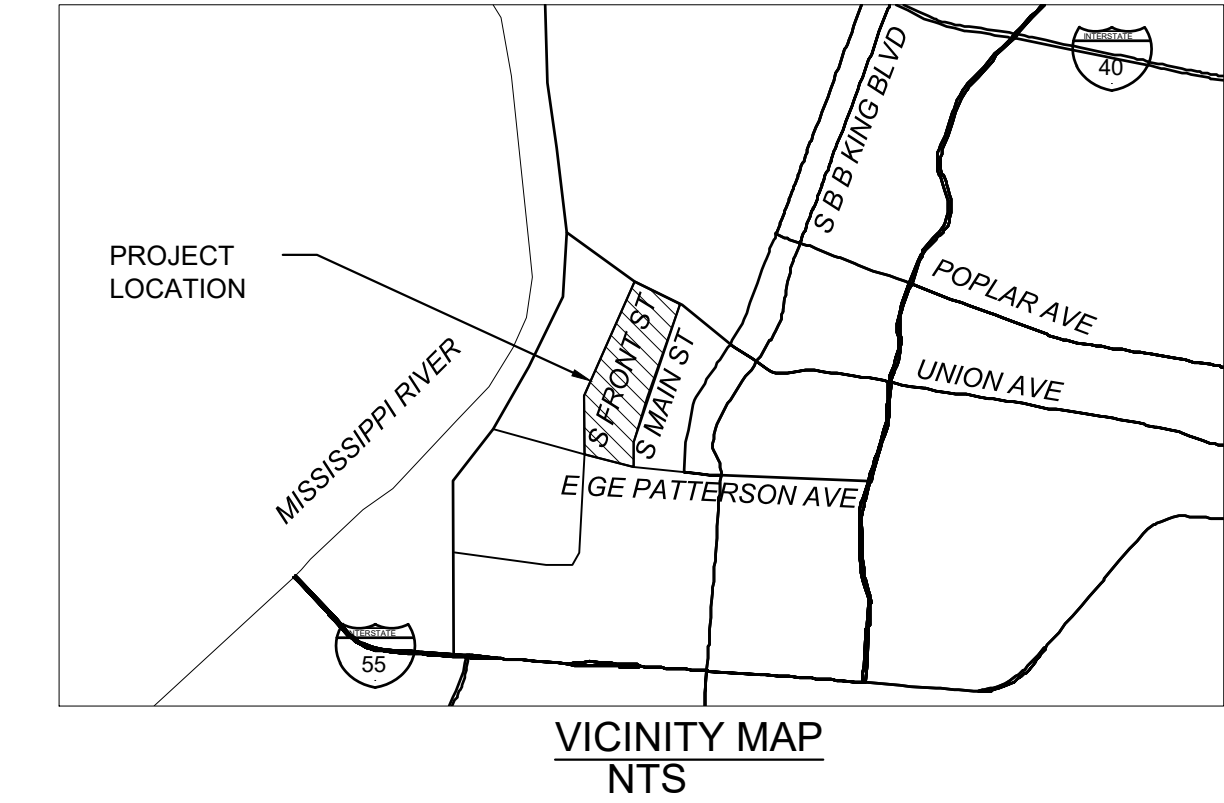
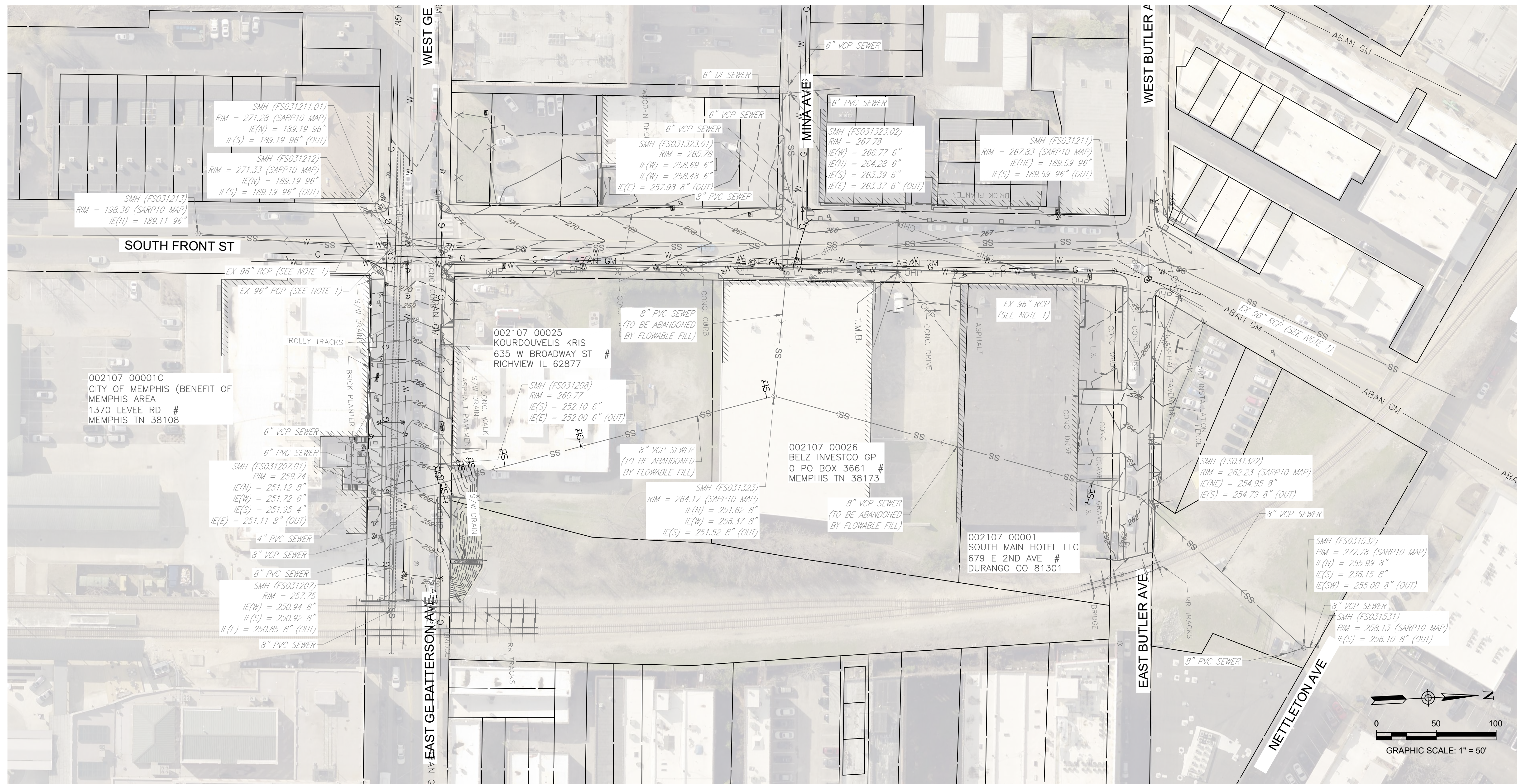
REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SOUTH FRONT STREET SEWER RELOCATION
OWNER: CITY OF MEMPHIS
ENGINEER: ABES ENGINEERING

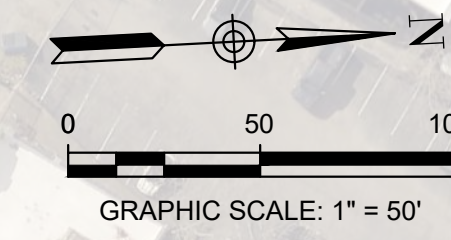
G001		
SHEET 1 OF 1 DIVISION OF ENGINEERING		
GENERAL NOTES		
E BUTLER AVE & S FRONT STREET		
MEMPHIS, TENNESSEE		
SURVEY BY: ASHWORTH ENG.	DATE: DEC-23	PROJECT NO: 290-23-001
DESIGN BY: BRAD DAVIS PE.	DATE: JAN-24	SCALE: N/A
REVIEWED		
DEPUTY CITY ENGINEER	DATE	CITY ENGINEER
		DATE

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING. FILE:ABES PRODUCTION\ACTIVE PROJECTS\290-A2\HPN 290-23-001 SOUTH FRONT STREET SEWER RELOCATION\WORKING\CAD\C101 EXISTING CONDITIONS.dwg DATE:2024-11-15 TIME:11:15:10 PM USER:NICK WONG



SEWER CONSTRUCTION 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 LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, TEXAS GAS COMPANY, AND/OR CITY OF MEMPHIS SEWER, PLEASE CALL 811.
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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' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
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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.
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14. TRACER WIRE SHALL BE INSTALLED ALONG THE LENGTH OF ALL SEWER PIPES, SERVICE CONNECTIONS, MANHOLES AND STUBS PER STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAIL (SST-17).



EXISTING LEGEND	
SYMBOL	DESCRIPTION
	LIGHT POLE
	POWER POLE
	WATER METER
	TELECOM MANHOLE
	ELECTRIC MANHOLE
	CATCH BASIN
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING HYDRANT
	OVERHEAD ELECTRIC LINE
	ABANDONED GAS MAIN
	EXISTING GAS MAIN
	EXISTING WATER MAIN
	EXISTING STORM
	EXISTING SANITARY SEWER
	RAILROAD
	TROLLEY TRACK
	FENCE
	MAJOR CONTOURS
	MINOR CONTOURS
	PROPERTY LINE

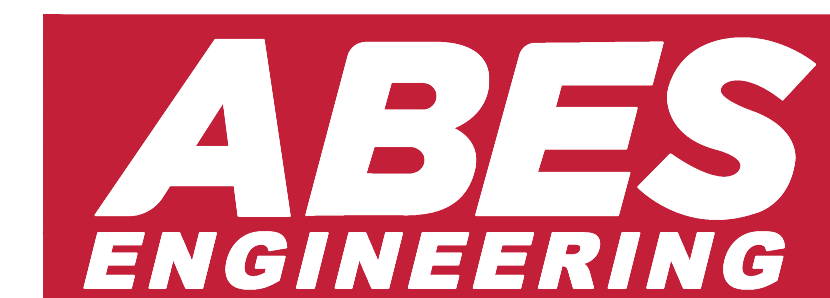
NOTE

1. LOCATION AND DEPTH OF EXISTING UTILITIES WERE ESTIMATED AND REQUIRE FIELD VERIFICATIONS PRIOR TO THE CONSTRUCTION.

ROW NOTE

1. PLEASE BE ADVISED THAT A BUILDING PERMIT ISSUED BY THE MEMPHIS/SHELBY COUNTY OFFICE OF CONSTRUCTION CODE ENFORCEMENT DOES NOT ALLOW FOR ALTERNATIONS AND/OR IMPROVEMENTS TO ANY RIGHT-OF-WAY (ROW) MAINTAINED BY THE CITY OF MEMPHIS. ALTERNATIONS AND/OR IMPROVEMENTS TO THE CITY OF MEMPHIS ROW INCLUDE BUT ARE NOT LIMITED TO WORK PERFORMED ON SIDEWALKS, CURB AND GUTTER, DRIVE APRONS AND UTILITY TIE-INS. ROW PERMITS MUST BE OBTAINED FROM THE CITY OF MEMPHIS CITY ENGINEER'S OFFICE AT (901) 636-6700.

BENCHMARK:
CITY BENCHMARK (C.B.M.) - 6397-81 FRONT STREET & VANCE -
CITY MONUMENT IS LOCATED ON THE SE COR., 4" X 4" CONC.
POST WITH BRASSCAP/NIPPLE AT BACK SIDEWALK AT MID POINT.
ELEV: 282.50 (NAVD88)



REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SOUTH FRONT STREET SEWER RELOCATION
OWNER: CITY OF MEMPHIS
ENGINEER: ABES ENGINEERING

FLOODPLAIN: THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE AE) PER FLOOD INSURANCE RATE MAP, MAP NO. 47157C0270F, EFFECTIVE DATE: SEPTEMBER 28, 2007.

SEWER BASIN: FS-03

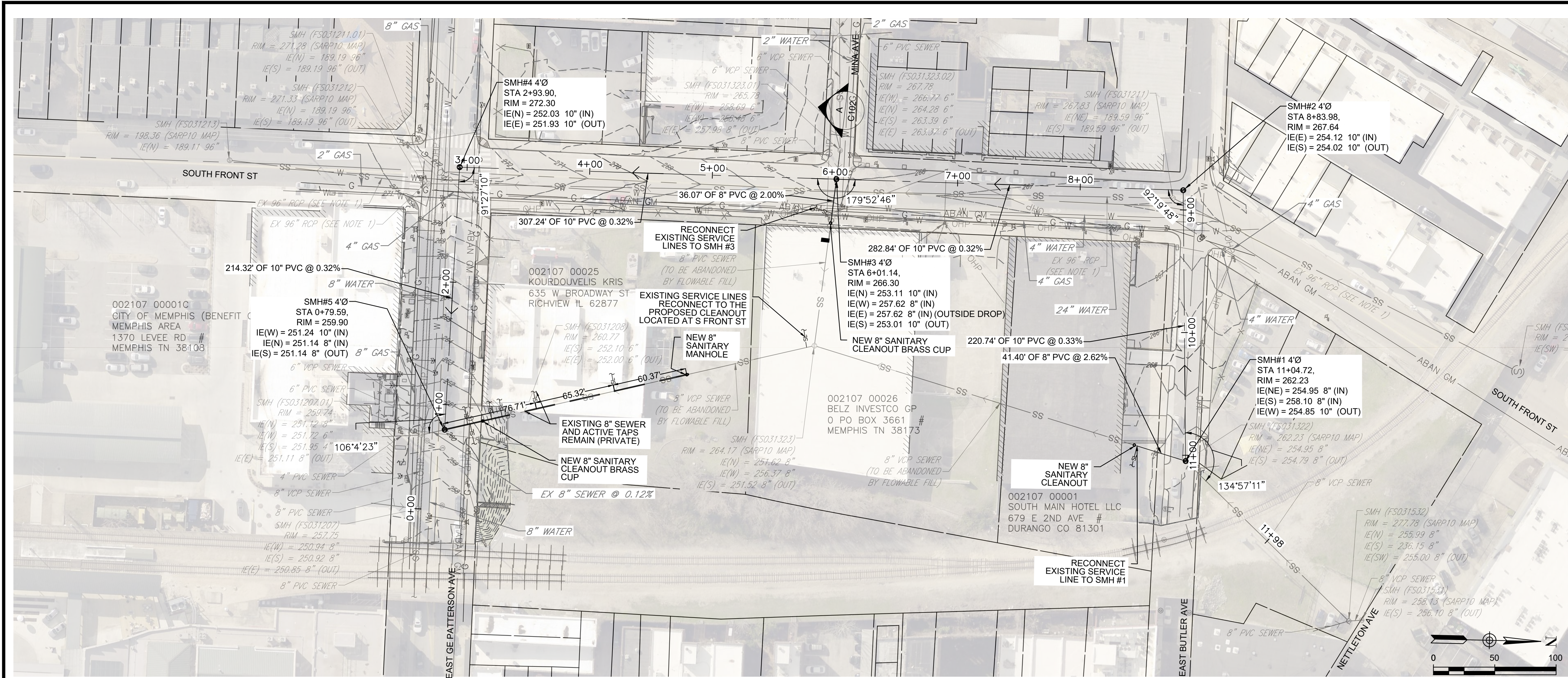
SHEET 1 OF 1
DIVISION OF ENGINEERING

EXISTING CONDITIONS
E BUTLER AVE & S FRONT STREET
MEMPHIS, TENNESSEE

SURVEY BY: ASHWORTH ENG. DATE: DEC-23 PROJECT NO: 290-23-001
DESIGN BY: BRAD DAVIS PE. DATE: JAN-24 SCALE: 1" = 50'
REVIEWED

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING. FILE: ABES PRODUCTION/ACTIVE PROJECTS/290-23-001 SOUTH FRONT STREET SEWER RELOCATION/WORKING/CAD/C102 PLAN & PROFILE 11:16:10 PM USER: NICK WONG



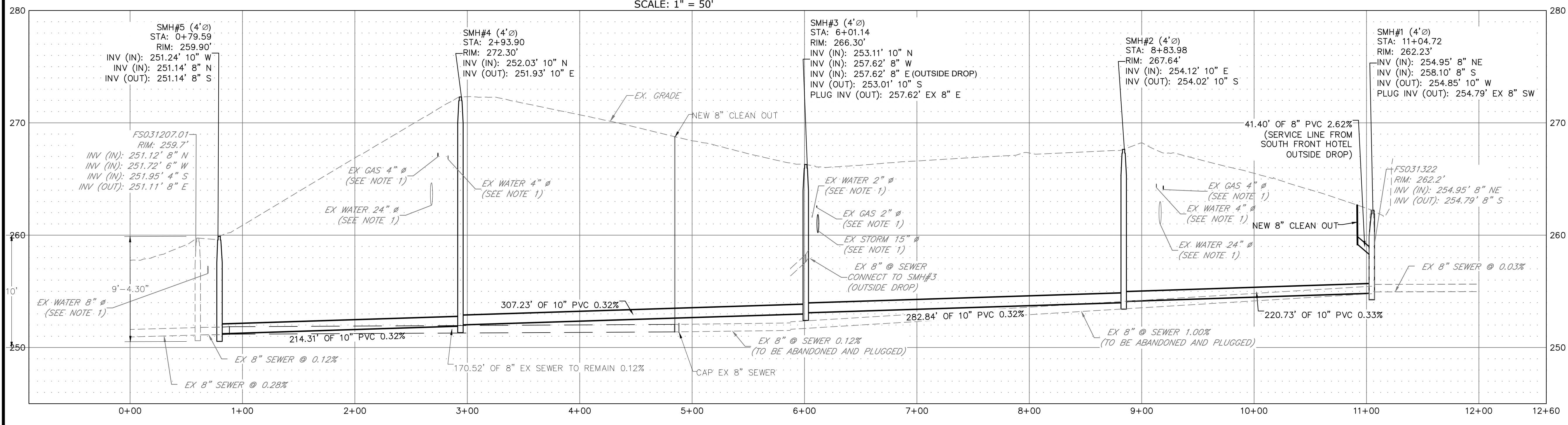
PLAN
SCALE: 1" = 50'

SEWER CONSTRUCTION NOTES:

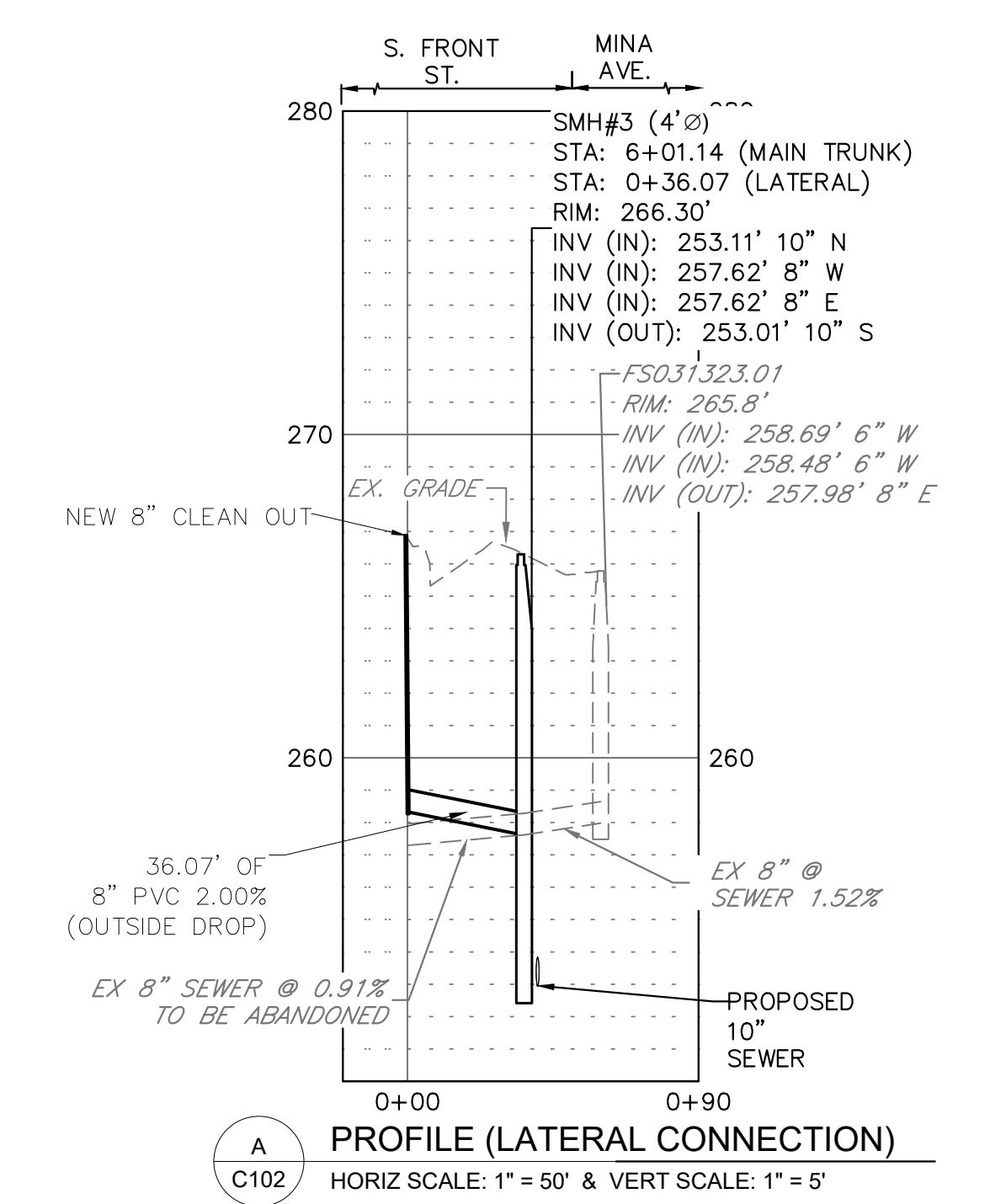
- LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.W., SOUTH CENTRAL BELL, TEXAS GAS COMPANY, AND/OR CITY OF MEMPHIS SEWER, PLEASE CALL 811.
- CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT 636-2462 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODED AS REQUIRED TO PREVENT EROSION.
- THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- 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 SS-16.
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- 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' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
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ROW NOTE

- PLEASE BE ADVISED THAT A BUILDING PERMIT ISSUED BY THE MEMPHIS/SHELBY COUNTY OFFICE OF CONSTRUCTION CODE ENFORCEMENT DOES NOT ALLOW FOR ALTERNATIONS AND/OR IMPROVEMENTS TO ANY RIGHT-OF-WAY (ROW) MAINTAINED BY THE CITY OF MEMPHIS. ALTERNATIONS AND/OR IMPROVEMENTS TO THE CITY OF MEMPHIS ROW INCLUDE BUT ARE NOT LIMITED TO WORK PERFORMED ON SIDEWALKS, CURB AND GUTTER, DRIVE APRONS AND UTILITY TIE-INS. ROW PERMITS MUST BE OBTAINED FROM THE CITY OF MEMPHIS CITY ENGINEER'S OFFICE AT (901) 636-6700.



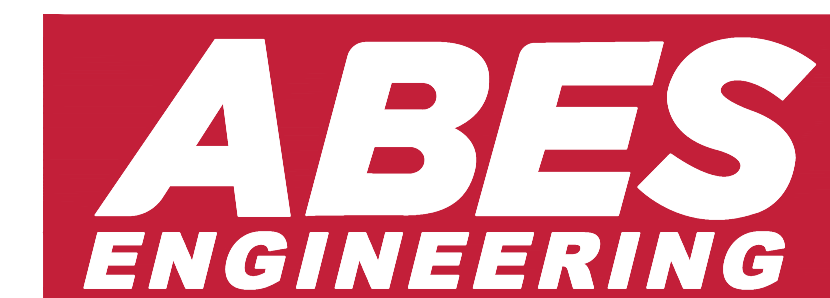
PROFILE
HORIZONTAL: 1" = 50'
VERTICAL SCALE: 1" = 5'



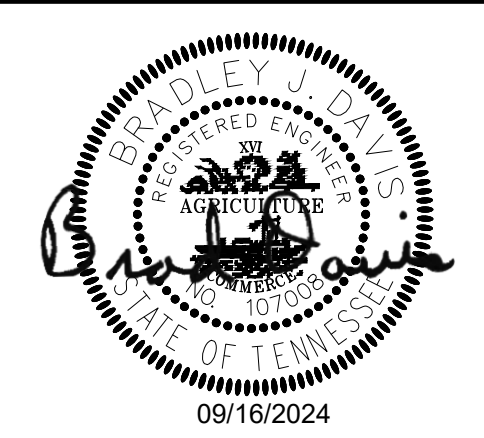
PROFILE (LATERAL CONNECTION)
HORIZ SCALE: 1" = 50' & VERT SCALE: 1" = 5'

TN STATE PLANE COORDINATE TABLE				
SMH ID	STATION	N	E	E (AS-BUILT)
SMH#5	0+79.59	316215.5987	754782.5286	
SMH#4	2+93.90	316232.0899	754568.8490	
SMH#3	6+01.14	316538.9149	754584.7159	
SMH#2	8+83.98	316821.3813	754599.3231	
SMH#1	11+04.72	316818.9530	754820.0450	

NOTE
1. LOCATION AND DEPTH OF EXISTING UTILITIES WERE ESTIMATED AND REQUIRE FIELD VERIFICATIONS PRIOR TO THE CONSTRUCTION.



REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SOUTH FRONT STREET SEWER RELOCATION
OWNER: CITY OF MEMPHIS
ENGINEER: ABES ENGINEERING

FLOODPLAIN: THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE AE) PER FLOOD INSURANCE RATE MAP, MAP NO. 47157C0270F, EFFECTIVE DATE: SEPTEMBER 28, 2007.
SEWER BASIN: FS-03

SHEET 1 OF 1
DIVISION OF ENGINEERING

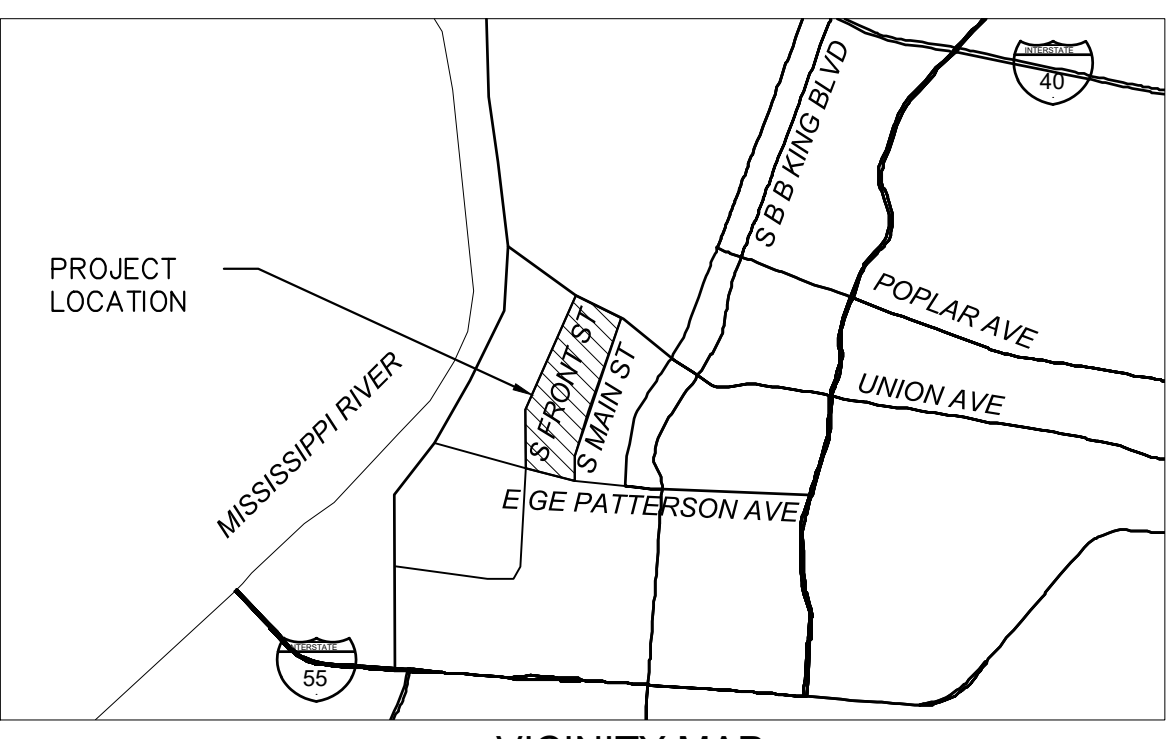
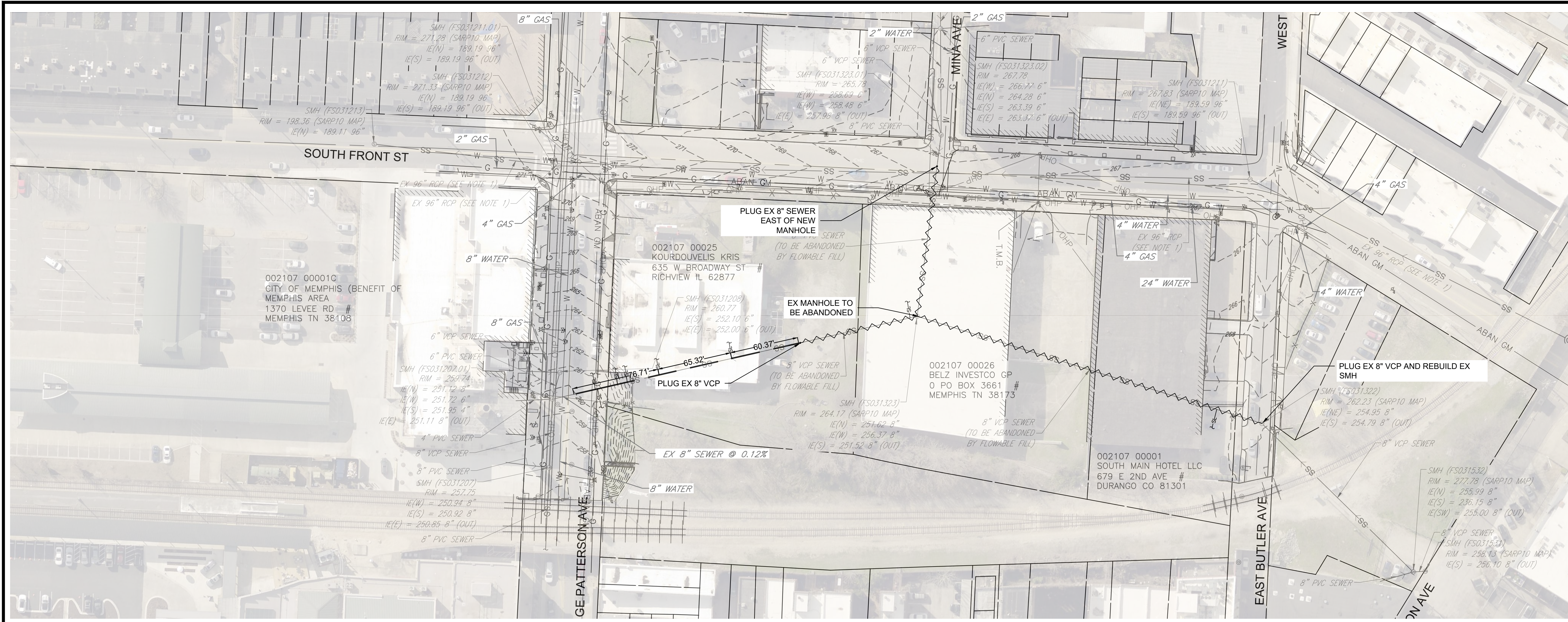
GRAVITY SEWER PLAN & PROFILE
E BUTLER AVE & S FRONT STREET

MEMPHIS, TENNESSEE

SURVEY BY: ASHWORTH ENG. DATE: DEC-23 PROJECT NO: 290-23-001
DESIGN BY: BRAD DAVIS PE. DATE: JAN-24 SCALE: 1" = 50'
REVIEWED

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING. FILE ABES PRODUCTION/ACTIVE PROJECTS/290 AQ/HPN 200-23-001 SOUTH FRONT STREET SEWER RELOCATION/WORKING/CAD/C102 PLAN & PROFILE 1.dwg DATE: 2024-11-15 TIME: 11:58:48 PM USER: NICK WONG



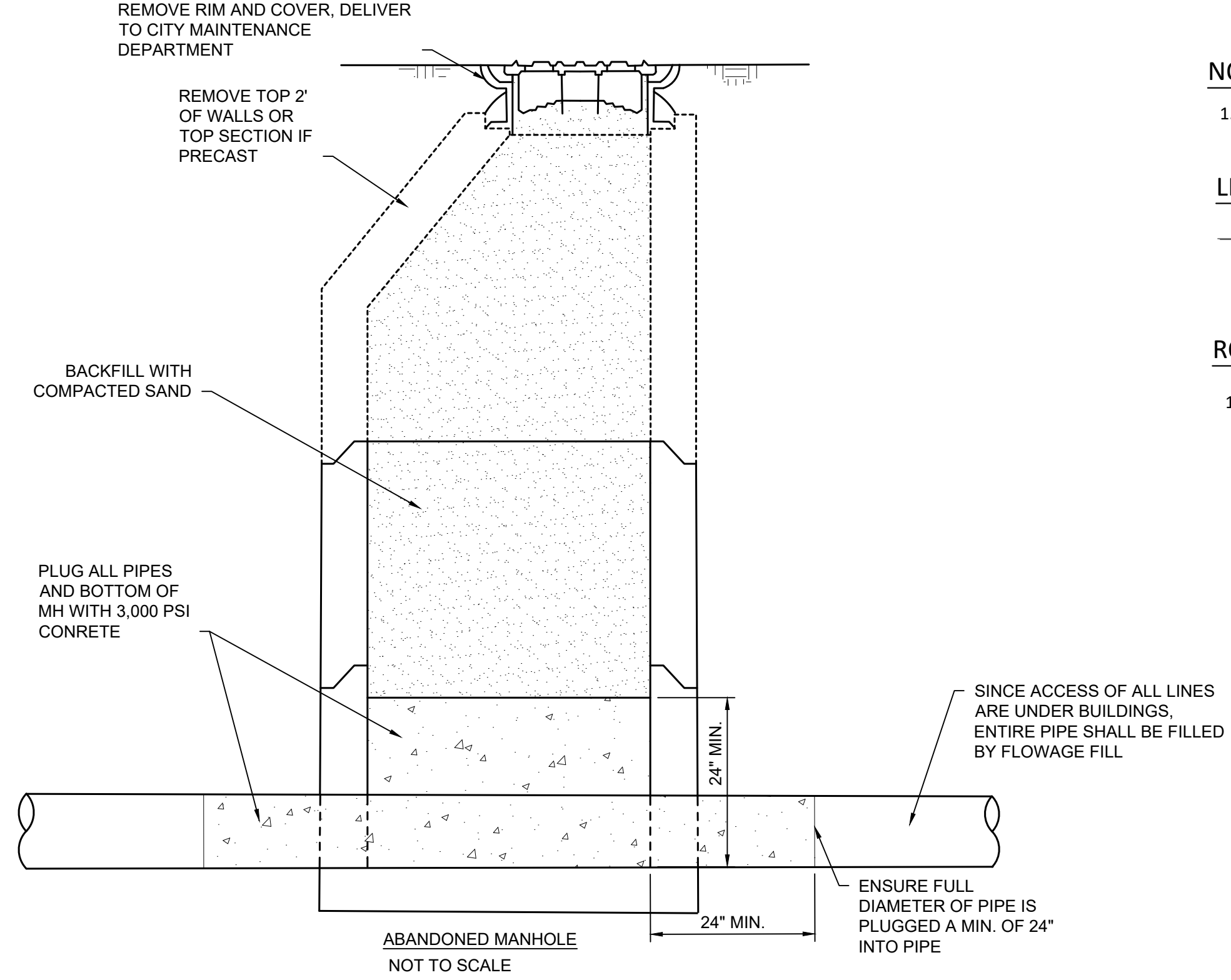
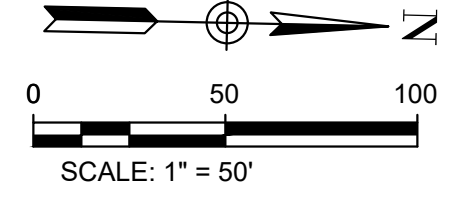
VICINITY MAP
NTS

SEWER CONSTRUCTION NOTES:

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PLAN

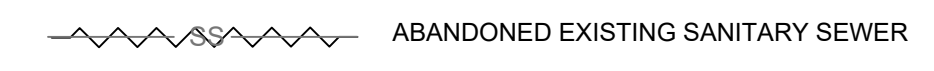
SCALE: 1" = 50'



NOTE

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LEGEND

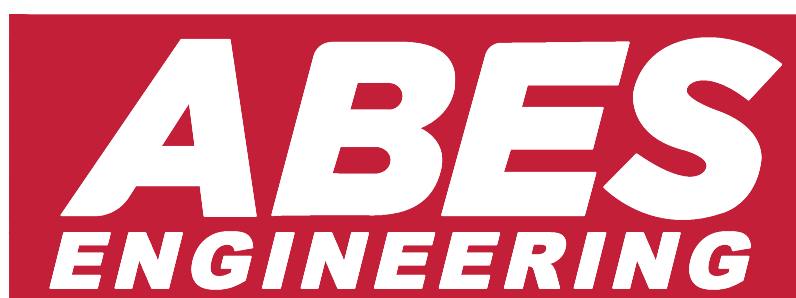


ROW NOTE

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STRUCTURE ABANDONMENT TABLE		
STRUCTURE	DEPTH	LOCATION
FS031323	13.15'	N: 316518.318 E: 754720.060

CITY BENCHMARK (C.B.M.) - 6397-81 FRONT STREET & VANCE - CITY MONUMENT IS LOCATED ON THE SE COR., 4" X 4" CONC. POST WITH BRASSCAP/NIPPLE AT BACK SIDEWALK AT MID POINT. ELEV: 282.50 (NAVD88)



REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SOUTH FRONT STREET SEWER RELOCATION
OWNER: CITY OF MEMPHIS
ENGINEER: ABES ENGINEERING

FLOODPLAIN: THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE AE) PER FLOOD INSURANCE RATE MAP, MAP NO. 47157C0270F. EFFECTIVE DATE: SEPTEMBER 28, 2007.
SEWER BASIN: FS-03

SHEET 1 OF 1
DIVISION OF ENGINEERING

GRAVITY SEWER ABANDONMENT PLAN
E BUTLER AVE & S FRONT STREET
MEMPHIS, TENNESSEE

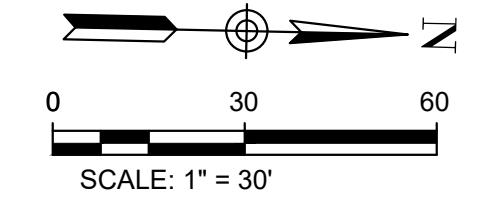
SURVEY BY: ASHWORTH ENG. DATE: DEC-23 PROJECT NO: 290-23-001
DESIGN BY: BRAD DAVIS PE. DATE: JAN-24 SCALE: 1" = 50'
REVIEWED

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING. FILE: ABES PRODUCTION\ACTIVE PROJECTS\200 A2HPN 200-23-001 SOUTH FRONT STREET SEWER RELOCATION\WORKING\CAD\C102 PLAN & PROFILE 1.dwg DATE: 2025-02-08 TIME: 06:52:22 PM USER: NICK WONG

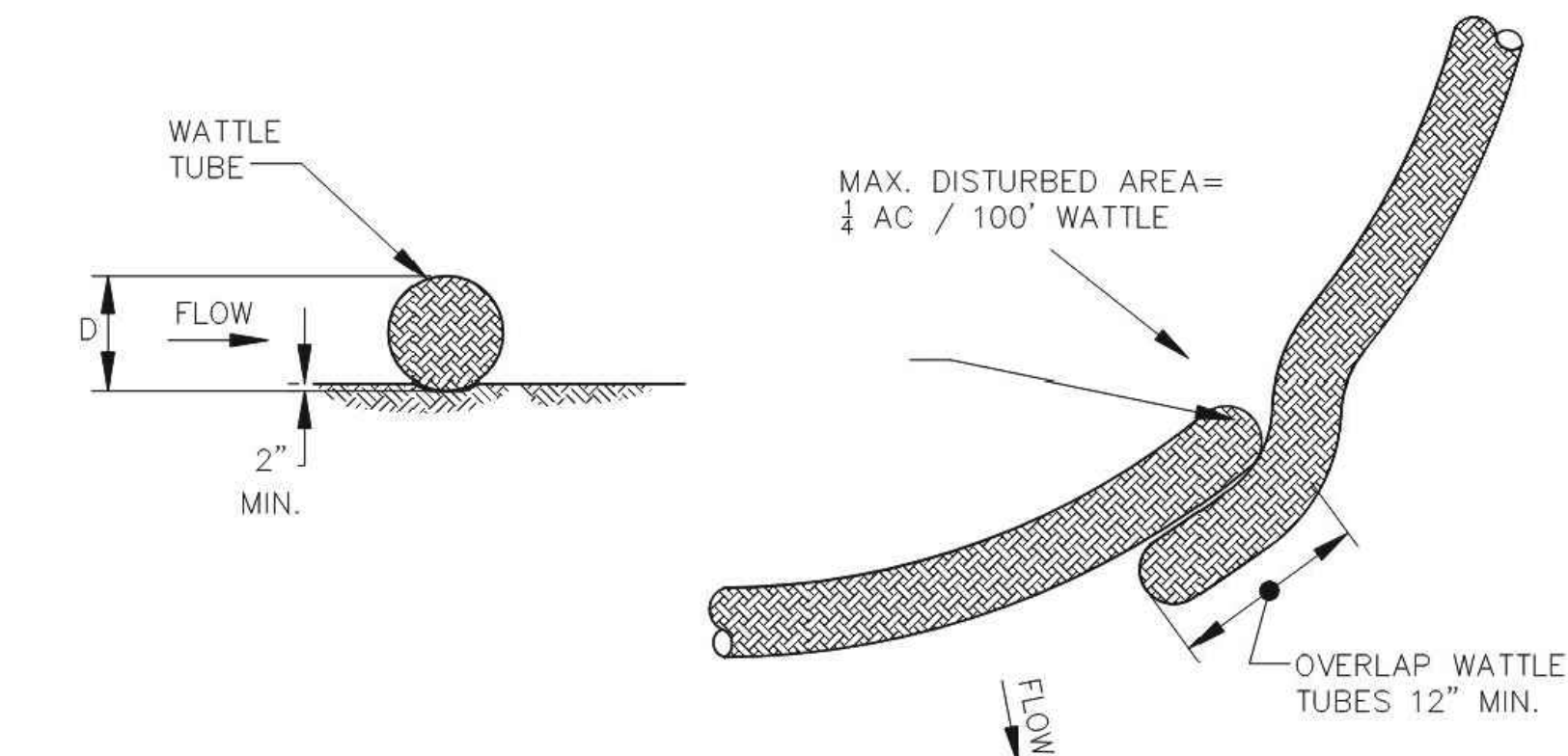


PLAN
SCALE: 1" = 30'

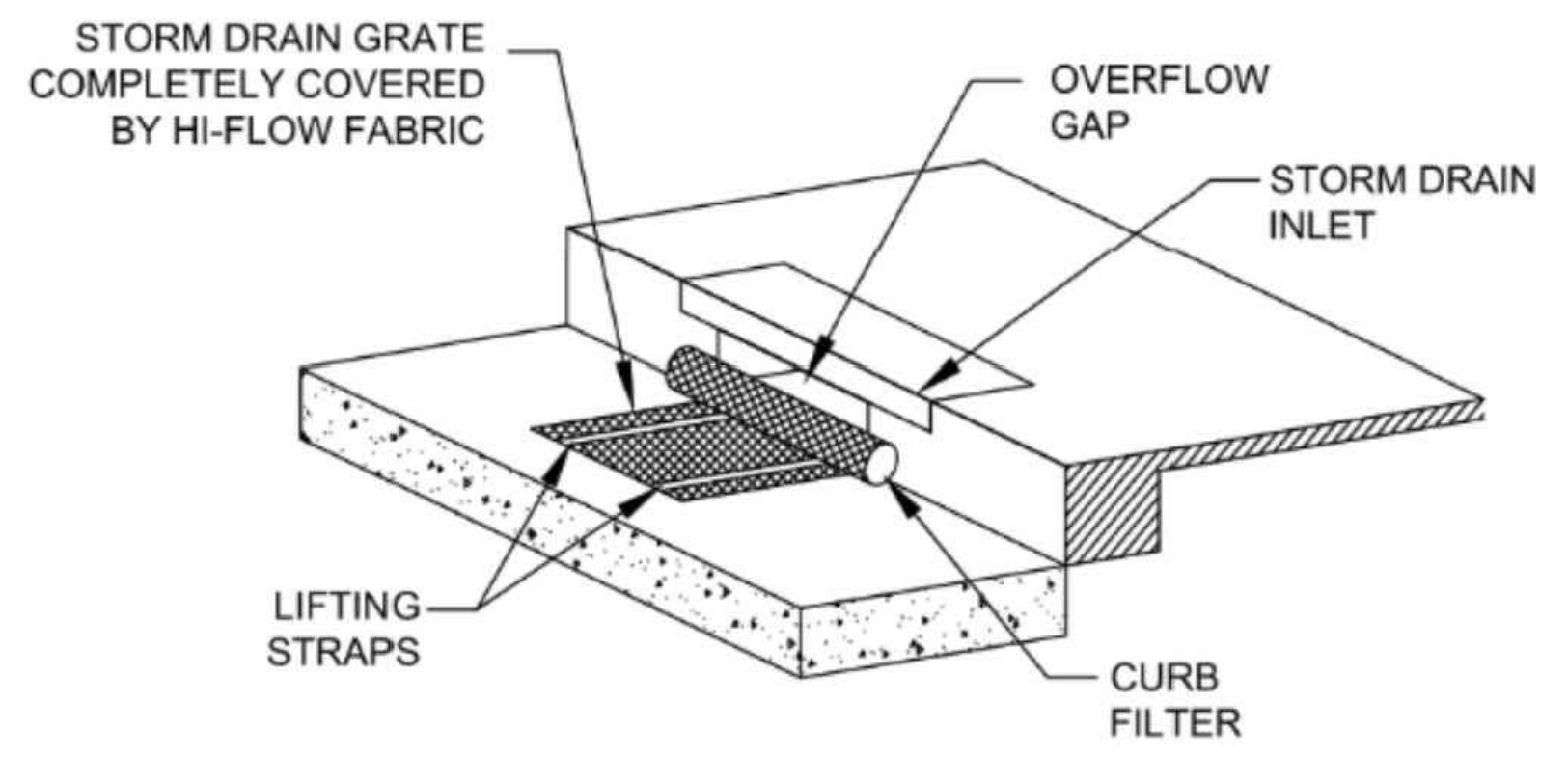


NOTE

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STRAW WATTLE DETAIL



INLET PROTECTION DETAIL

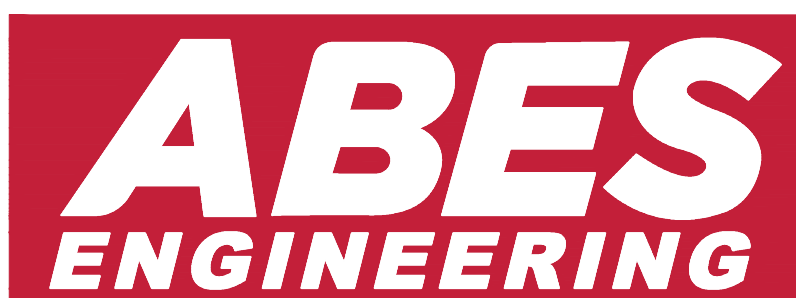
STAGE NOTES	
STAGE I	1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN AND AS NOTED ON THE STAGE I PLAN. 2. BEGIN CONSTRUCTION OF SEWER AND MANHOLE REFERENCE TO TRAFFIC CONTROL PLAN.
STAGE II	1. MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS STABILIZED. 2. REMOVE REMAINING BMPs ONCE THE SITE HAS BEEN STABILIZED.

LEGEND	
	STRAW WATTLE
	LIMITS OF DISTURBANCE
	INLET PROTECTION

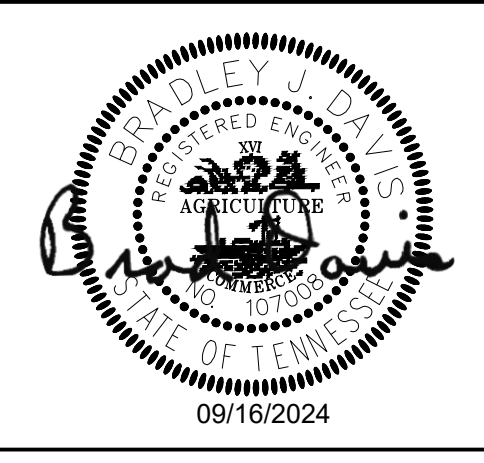
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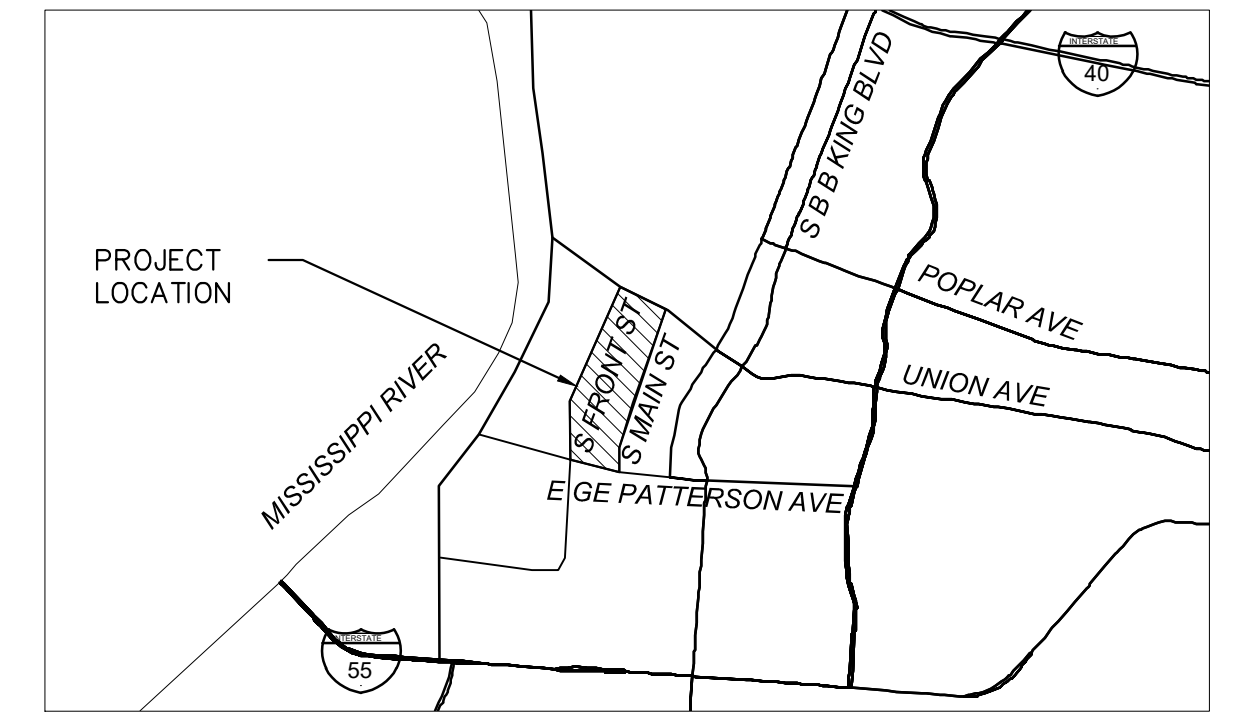


REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SOUTH FRONT STREET SEWER RELOCATION

OWNER: CITY OF MEMPHIS
ENGINEER: ABES ENGINEERING



VICINITY MAP
NTS

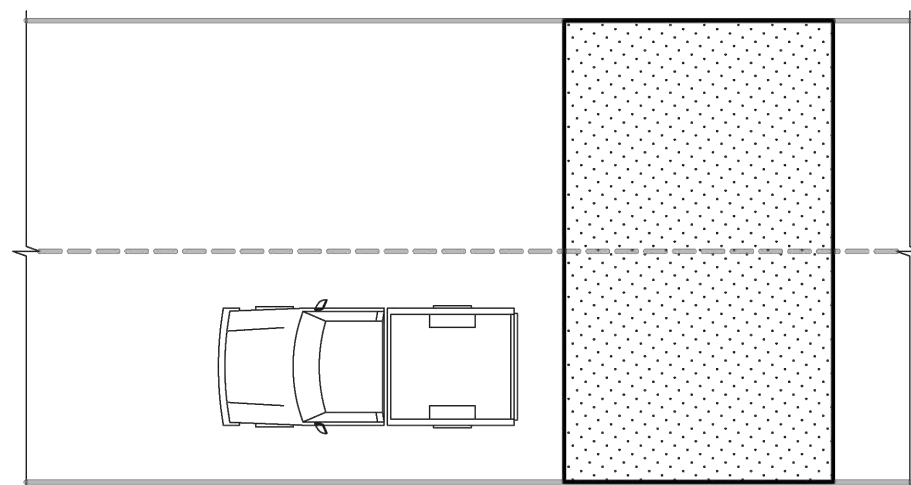
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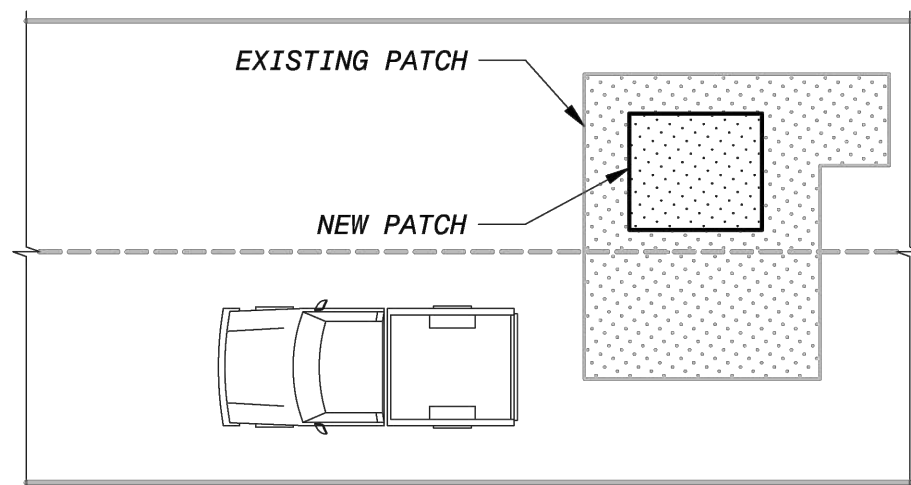
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SEWER BASIN: FS-03

SHEET 1 OF 1 DIVISION OF ENGINEERING		C104
EROSION PREVENTION & SEDIMENT CONTROL PLAN		
E BUTLER AVE & S FRONT STREET		
MEMPHIS, TENNESSEE		
SURVEY BY: ASHWORTH ENG.	DATE: DEC-23	PROJECT NO: 290-23-001
DESIGN BY: BRAD DAVIS PE.	DATE: JAN-24	SCALE: 1" = 50'
REVIEWED		
DEPUTY CITY ENGINEER	DATE	CITY ENGINEER

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING. FILE:ABES PRODUCTION\ACTIVE PROJECTS\290 AQ\HPN 290-23-001 SOUTH FRONT STREET SEWER RELOCATION\WORKING\CAD\C107 DETAILS.dwg DATE: 2024-11-15 TIME: 11:16:52 PM USER: NICK WONG



ACCEPTABLE



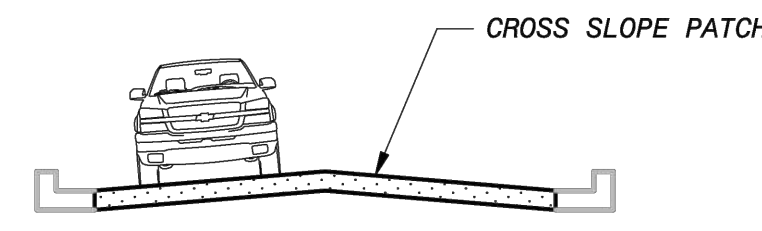
NOT ACCEPTABLE

- NOTES**
- EXISTING PAVEMENTS SHALL BE REMOVED TO CLEAN, STRAIGHT LINES PARALLEL AND PERPENDICULAR TO THE FLOW OF TRAFFIC.
 - DO NOT CONSTRUCT PATCHES WITH ANGLED SIDES AND/OR IRREGULAR SHAPES.
 - ALL REPAIRS SHALL BE FULL LANE WIDTH.
 - FOR PATCHES IN ASPHALT, A TACK COAT SHALL BE APPLIED TO ALL EDGES OF THE EXISTING ASPHALT BEFORE PLACING THE NEW PAVEMENT.
 - AFTER PLACING THE NEW ASPHALT, ALL SEAMS (JOINTS) BETWEEN THE NEW AND EXISTING PAVEMENTS SHALL BE SEALED WITH AN ASPHALT TACK COAT OR RUBBERIZED CRACK SEAL MATERIAL.
 - AVOID PATCHES WITHIN PATCHES. IF THIS CANNOT BE AVOIDED, MAKE THE BOUNDARIES OF THE PATCHES COINCIDE.

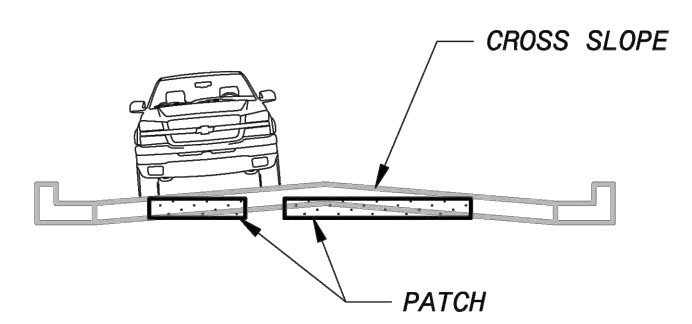
SARP10
PAVEMENT REPAIR
PATCH INSIDE A PATCH
DETAILS

BLACK & VEATCH
Building a world of difference

REV 0.0 DATE: 04/04/14



ACCEPTABLE



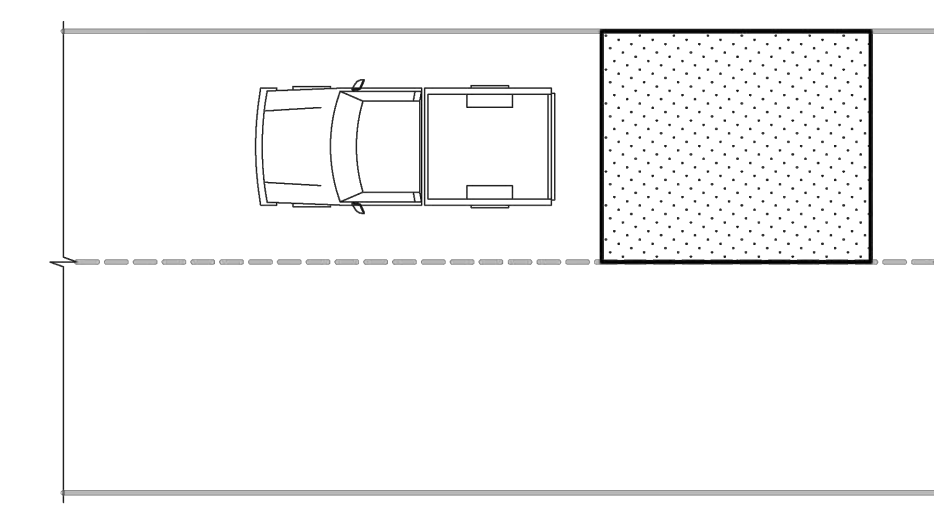
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 - ALL REPAIRS SHALL BE FULL LANE WIDTH.
 - FOR PATCHES IN ASPHALT, A TACK COAT SHALL BE APPLIED TO ALL EDGES OF THE EXISTING ASPHALT BEFORE PLACING THE NEW PAVEMENT.
 - AFTER PLACING THE NEW ASPHALT, ALL SEAMS (JOINTS) BETWEEN THE NEW AND EXISTING PAVEMENTS SHALL BE SEALED WITH AN ASPHALT TACK COAT OR RUBBERIZED CRACK SEAL MATERIAL.
 - PATCHES SHALL HAVE A SMOOTH LONGITUDINAL GRADE CONSISTENT WITH THE EXISTING ROADWAY.
 - PATCHES SHALL ALSO HAVE A CROSS SLOPE OR CROSS SECTION CONSISTENT WITH THE DESIGN OF THE EXISTING ROADWAY.

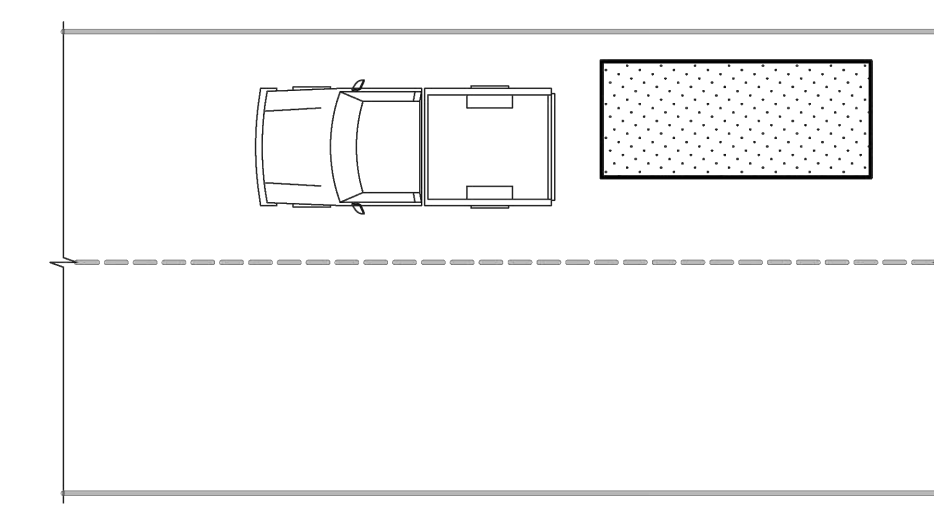
SARP10
PAVEMENT REPAIR
CROSS SLOPE
DETAILS

BLACK & VEATCH
Building a world of difference

REV 0.0 DATE: 04/04/14



ACCEPTABLE



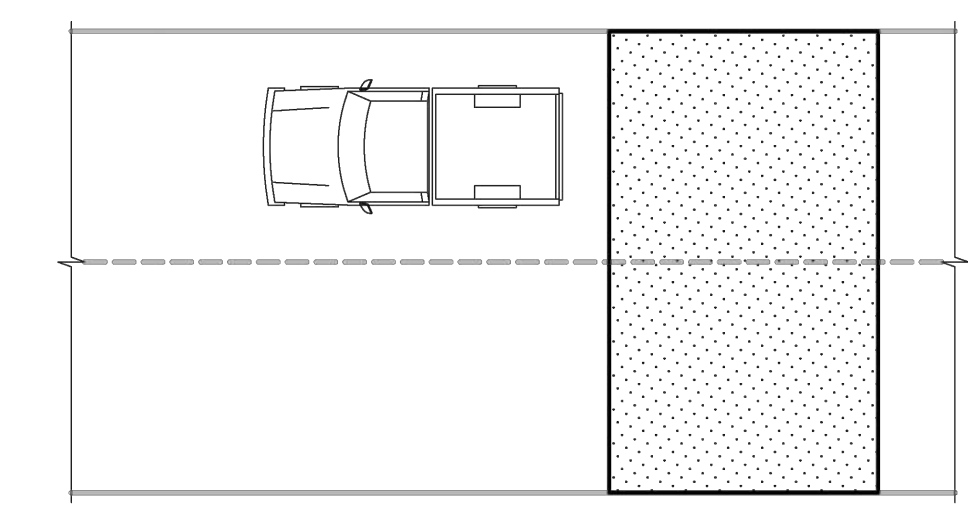
NOT ACCEPTABLE

- NOTES**
- EXISTING PAVEMENTS SHALL BE REMOVED TO CLEAN, STRAIGHT LINES PARALLEL AND PERPENDICULAR TO THE FLOW OF TRAFFIC.
 - DO NOT CONSTRUCT PATCHES WITH ANGLED SIDES AND/OR IRREGULAR SHAPES.
 - ALL REPAIRS SHALL BE FULL LANE WIDTH.
 - FOR PATCHES IN ASPHALT, A TACK COAT SHALL BE APPLIED TO ALL EDGES OF THE EXISTING ASPHALT BEFORE PLACING THE NEW PAVEMENT.
 - AFTER PLACING THE NEW ASPHALT, ALL SEAMS (JOINTS) BETWEEN THE NEW AND EXISTING PAVEMENTS SHALL BE SEALED WITH AN ASPHALT TACK COAT OR RUBBERIZED CRACK SEAL MATERIAL.

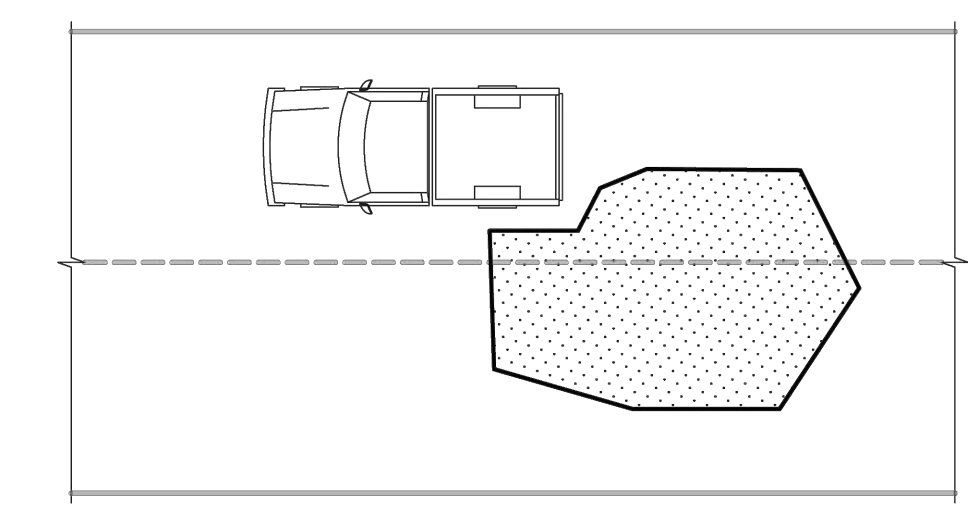
SARP10
PAVEMENT REPAIR
SINGLE LANE
DETAILS

BLACK & VEATCH
Building a world of difference

REV 0.0 DATE: 04/04/14



ACCEPTABLE



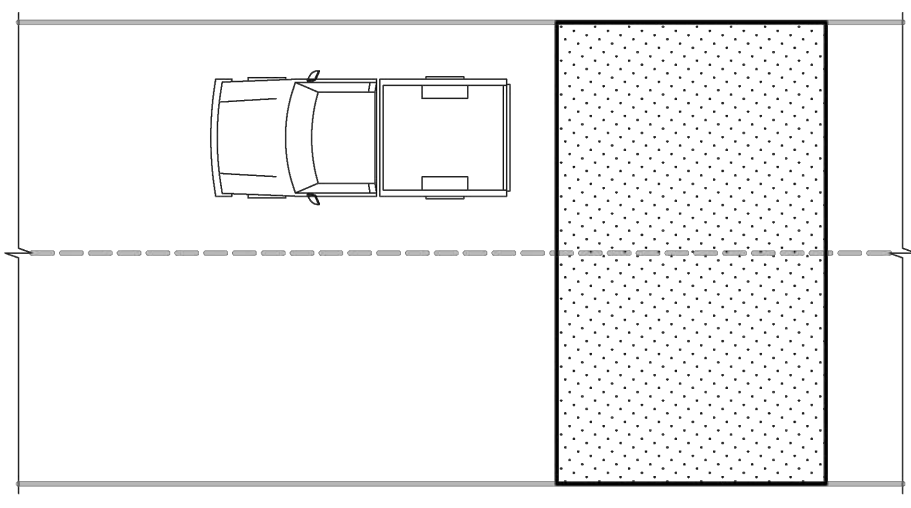
NOT ACCEPTABLE

- NOTES**
- EXISTING PAVEMENTS SHALL BE REMOVED TO CLEAN, STRAIGHT LINES PARALLEL AND PERPENDICULAR TO THE FLOW OF TRAFFIC.
 - DO NOT CONSTRUCT PATCHES WITH ANGLED SIDES AND/OR IRREGULAR SHAPES.
 - ALL REPAIRS SHALL BE FULL LANE WIDTH.
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 - AFTER PLACING THE NEW ASPHALT, ALL SEAMS (JOINTS) BETWEEN THE NEW AND EXISTING PAVEMENTS SHALL BE SEALED WITH AN ASPHALT TACK COAT OR RUBBERIZED CRACK SEAL MATERIAL.

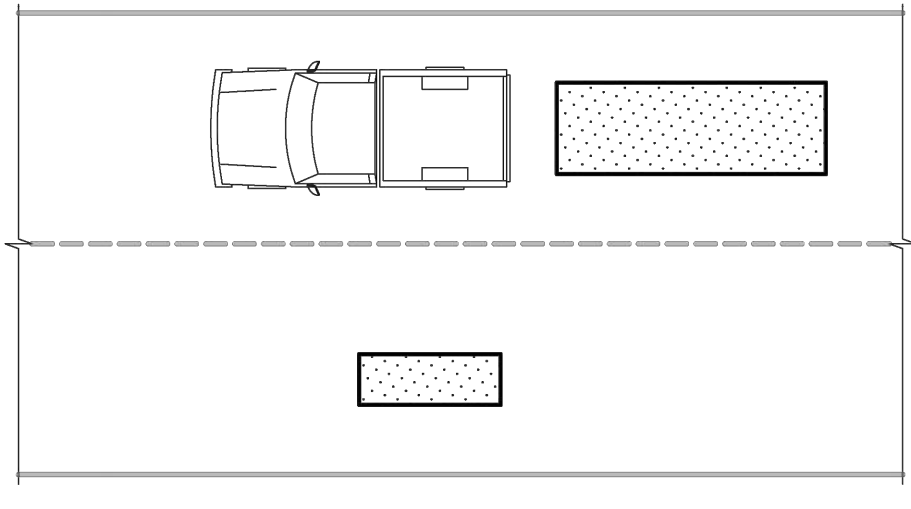
SARP10
PAVEMENT REPAIR
MULTI-LANE
DETAILS

BLACK & VEATCH
Building a world of difference

REV 0.0 DATE: 04/04/14



ACCEPTABLE



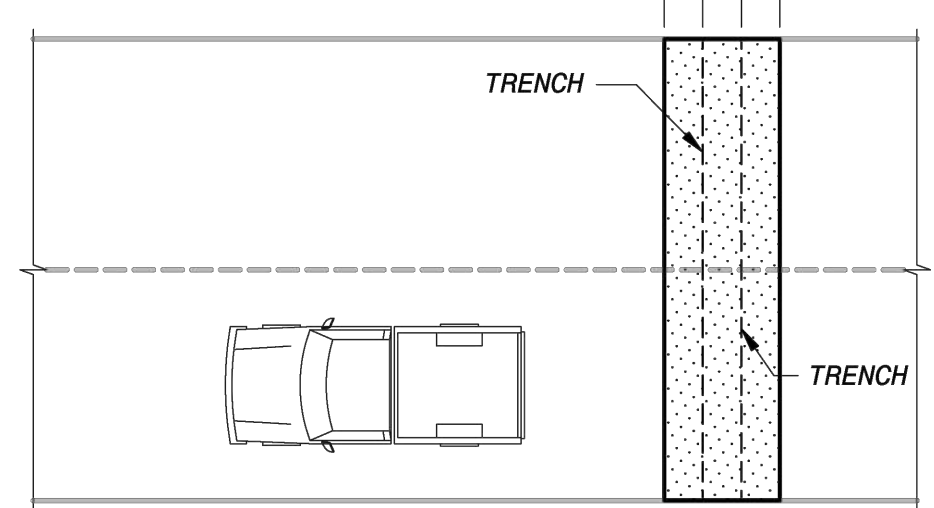
NOT ACCEPTABLE

- NOTES**
- EXISTING PAVEMENTS SHALL BE REMOVED TO CLEAN, STRAIGHT LINES PARALLEL AND PERPENDICULAR TO THE FLOW OF TRAFFIC.
 - DO NOT CONSTRUCT PATCHES WITH ANGLED SIDES AND/OR IRREGULAR SHAPES.
 - ALL REPAIRS SHALL BE FULL LANE WIDTH.
 - FOR PATCHES IN ASPHALT, A TACK COAT SHALL BE APPLIED TO ALL EDGES OF THE EXISTING ASPHALT BEFORE PLACING THE NEW PAVEMENT.
 - AFTER PLACING THE NEW ASPHALT, ALL SEAMS (JOINTS) BETWEEN THE NEW AND EXISTING PAVEMENTS SHALL BE SEALED WITH AN ASPHALT TACK COAT OR RUBBERIZED CRACK SEAL MATERIAL.
 - TRAVERSE PATCHES SHALL BE OVERLAID ACROSS THE ENTIRE STREET WIDTH FOR A DISTANCE OF TWO (2) FEET MINIMUM ON ALL SIDES OF THE TRENCH.
 - DO NOT ALLOW THE EDGES OF PATCHES TO FALL IN EXISTING WHEEL PATHS.
 - THE EDGES OF PATCHES PARALLEL TO THE DIRECTION OF TRAFFIC SHALL BE LIMITED TO THE BOUNDARIES OF LANES OR TO THE CENTERLINE OF TRAVEL LANES.

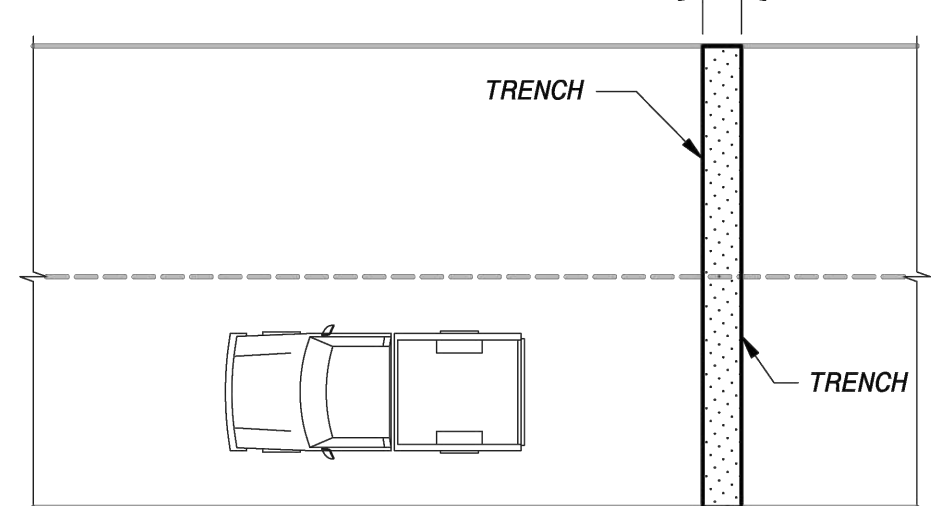
SARP10
PAVEMENT REPAIR
WHEEL PATH
DETAILS

BLACK & VEATCH
Building a world of difference

REV 0.0 DATE: 04/04/14



ACCEPTABLE



NOT ACCEPTABLE

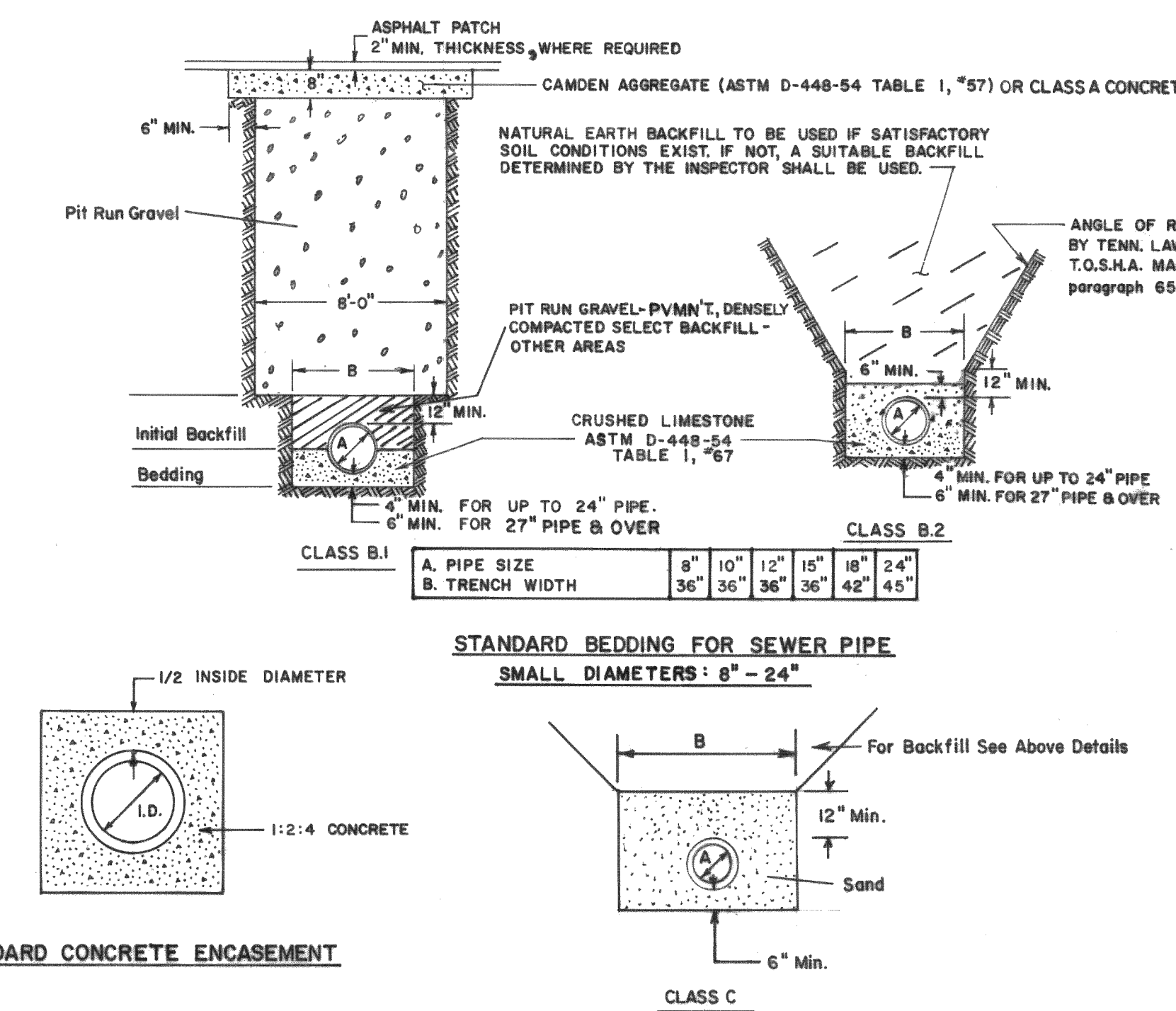
- NOTES**
- EXISTING PAVEMENTS SHALL BE REMOVED TO CLEAN, STRAIGHT LINES PARALLEL AND PERPENDICULAR TO THE FLOW OF TRAFFIC.
 - DO NOT CONSTRUCT PATCHES WITH ANGLED SIDES AND/OR IRREGULAR SHAPES.
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 - AFTER PLACING THE NEW ASPHALT, ALL SEAMS (JOINTS) BETWEEN THE NEW AND EXISTING PAVEMENTS SHALL BE SEALED WITH AN ASPHALT TACK COAT OR RUBBERIZED CRACK SEAL MATERIAL.
 - TRAVERSE PATCHES SHALL BE OVERLAID ACROSS THE ENTIRE STREET WIDTH FOR A DISTANCE OF TWO (2) FEET MINIMUM ON ALL SIDES OF THE TRENCH.

SARP10
PAVEMENT REPAIR
TRAVERSE PATCHES
DETAILS

BLACK & VEATCH
Building a world of difference

REV 0.0 DATE: 04/04/14

DIVISION OF PUBLIC WORKS BUREAU: Sewer, E. D. Smith, Jr., BUREAU ENGINEER: A.S. JR., CDP/TF/BAW, DATE ILLUSTRATION: DATE ILLUSTRATION: SCALE: NONE



REVISIONS			
NO.	DATE	BY	REMARKS
1	5/87	D.B.	To Show Class B1, B2, & C

CONVERSIONS	
ENGLISH	METRIC

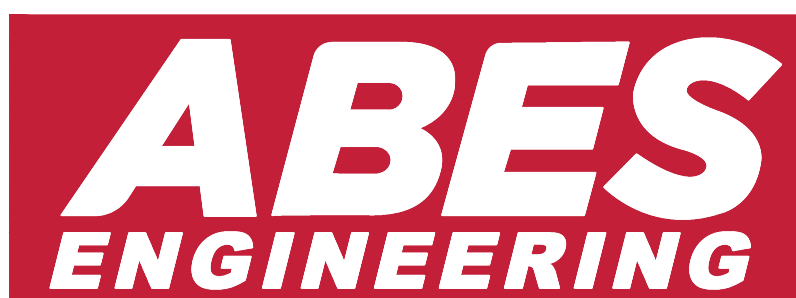
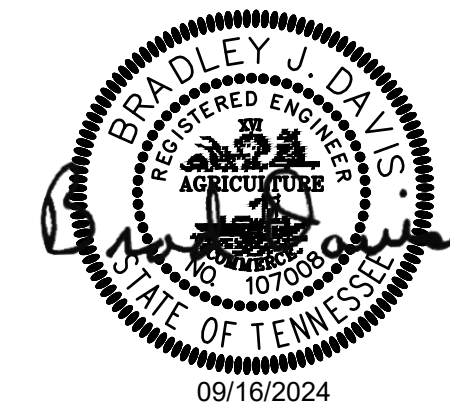
CITY OF MEMPHIS
DIVISION OF PUBLIC WORKS

DESIGN STANDARD
FOR
1. SMALL DIA. SEWER BEDDING
2. CONCRETE ENCASUREMENT

Principal Civil Eng'r: *Bradley J. Davis* DATE: 1-21-20
Deputy Dir./Civil Eng'r: *Bradley J. Davis* DATE: 1-21-20

11-7-77 DWS. NO. SBT-3

REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SOUTH FRONT STREET SEWER RELOCATION
OWNER: CITY OF MEMPHIS
ENGINEER: ABES ENGINEERING

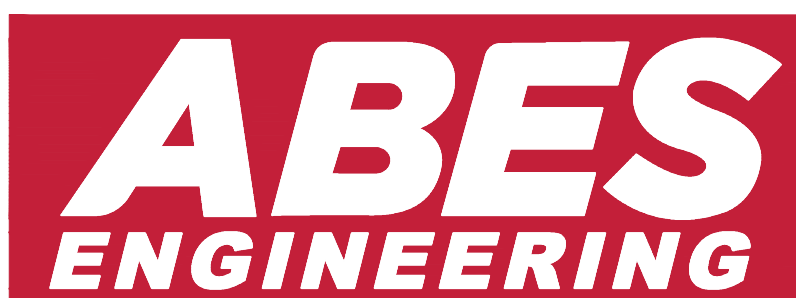
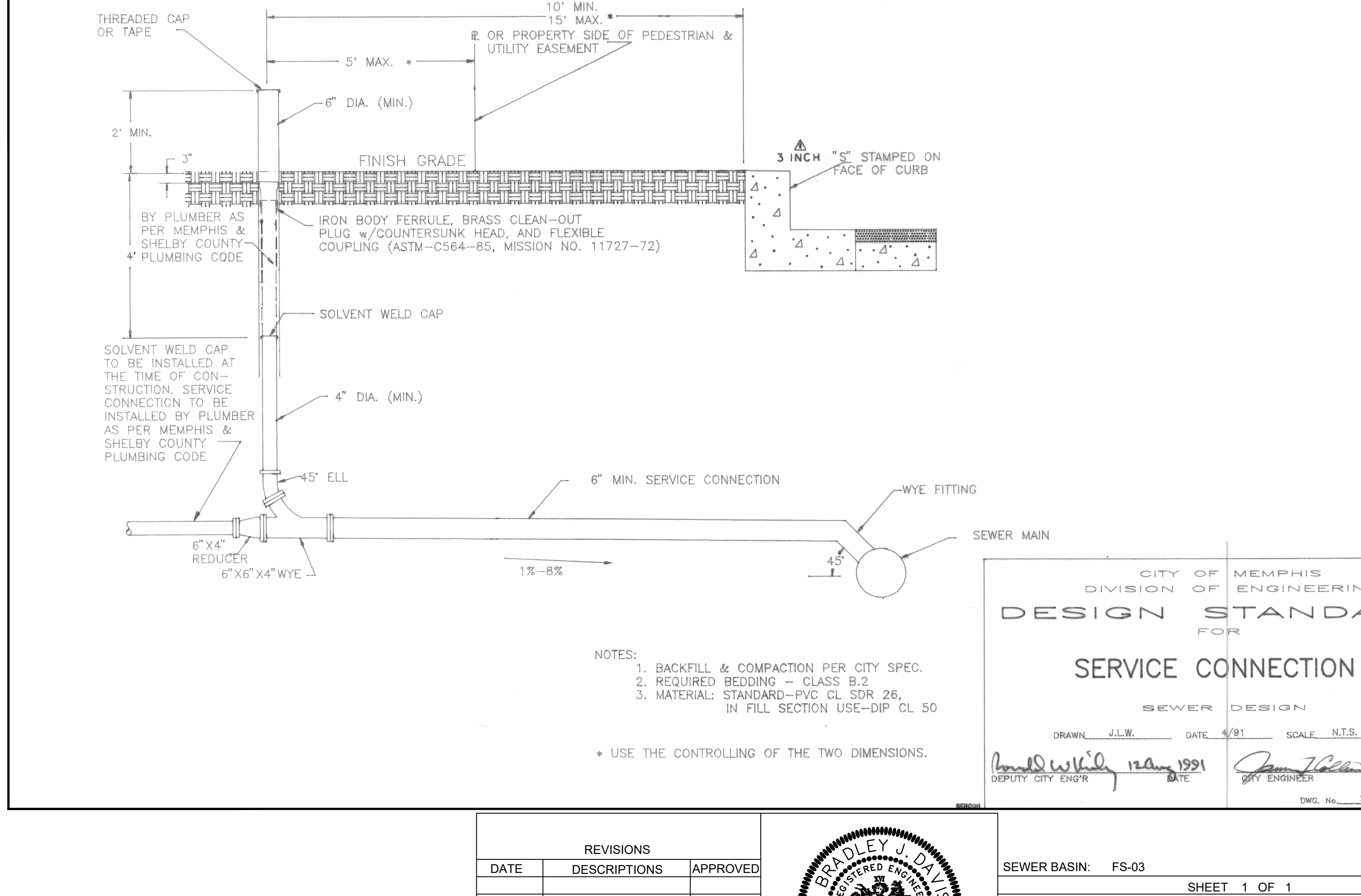
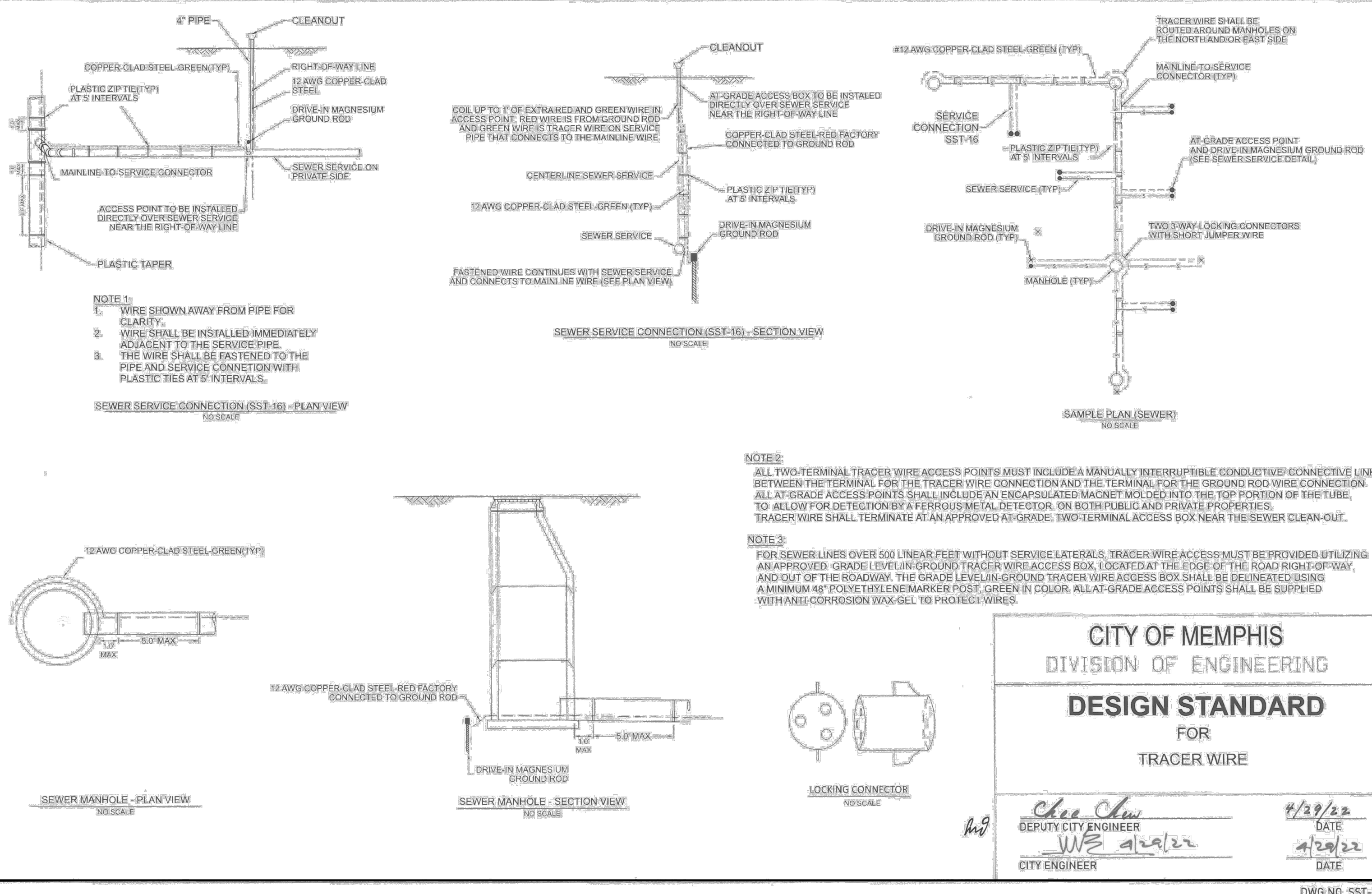
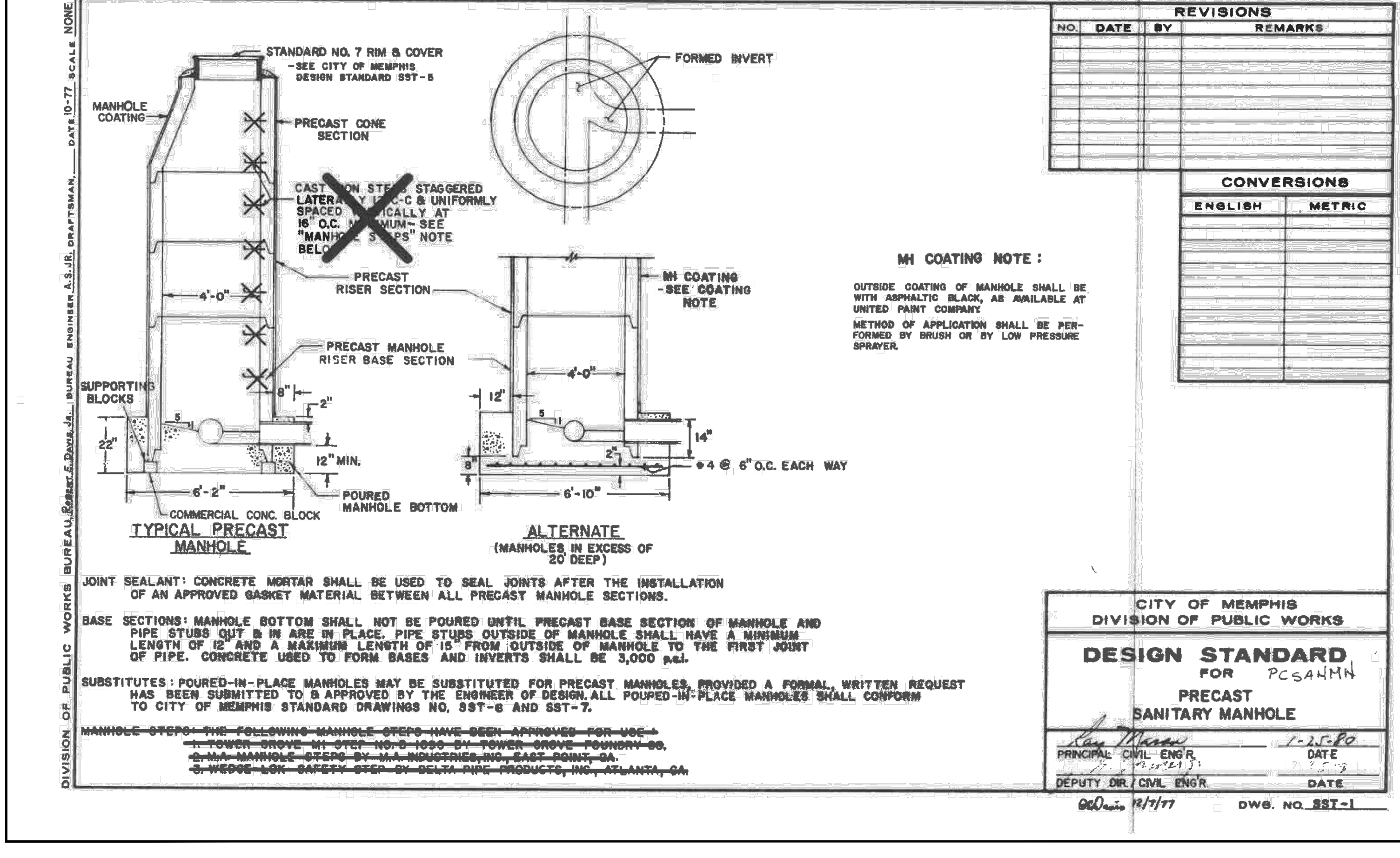
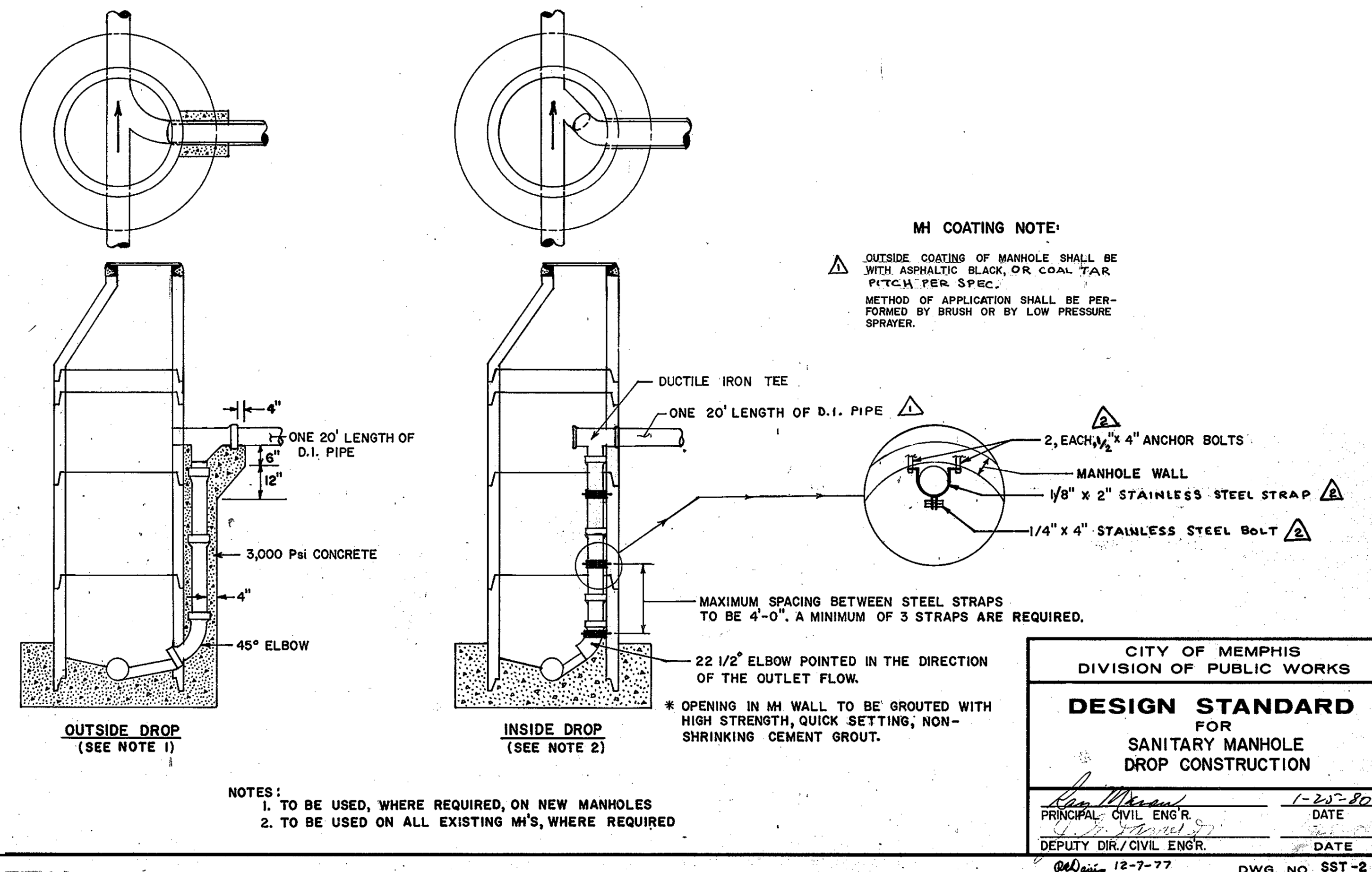
SEWER BASIN: FS-03 SHEET 1 OF 1 DIVISION OF ENGINEERING

DETAILS 1
E BUTLER AVE & S FRONT STREET
MEMPHIS, TENNESSEE

SURVEY BY: ASHWORTH ENG. DATE: DEC-23 PROJECT NO: 290-23-001
DESIGN BY: BRAD DAVIS PE. DATE: JAN-24 SCALE: N/A
REVIEWED

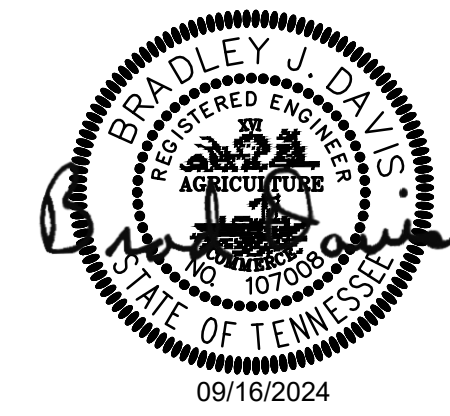
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING. FILE ABES PRODUCTION/ACTIVE PROJECTS/290 A2HPN 290-23-001 SOUTH FRONT STREET SEWER RELOCATION/WORKING/CAD/07 DETAILS.dwg DATE: 2024-11-15 TIME: 12:15:54 PM USER: NICK WONG



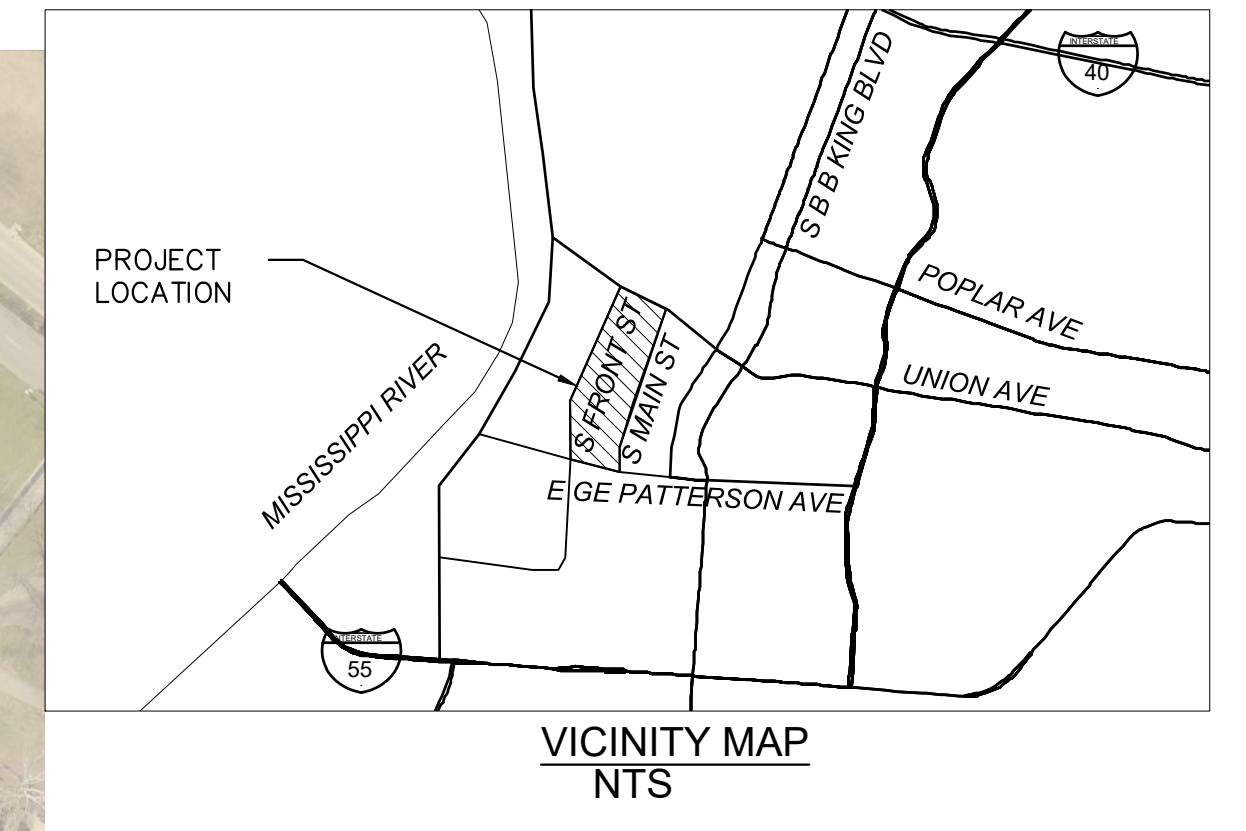
SOUTH FRONT STREET SEWER RELOCATION
 OWNER: CITY OF MEMPHIS
 ENGINEER: ABES ENGINEERING

REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SEWER BASIN: FS-03 SHEET 1 OF 1 DIVISION OF ENGINEERING
 DETAILS 2
 E BUTLER AVE & S FRONT STREET
 MEMPHIS, TENNESSEE
 SURVEY BY: ASHWORTH ENG. DATE: DEC-23 PROJECT NO: 290-23-001
 DESIGN BY: BRAD DAVIS PE. DATE: JAN-24 SCALE: N/A
 REVIEWED
 DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

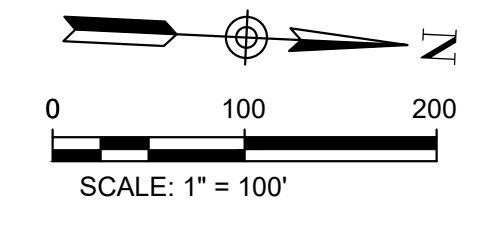
All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING. FILE ABES PRODUCTION/ACTIVE PROJECTS/290 AQ/HPN 200-23-001 SOUTH FRONT STREET SEWER RELOCATION/WORKING/CAD/C105 TCP.dwg DATE: 2024-10-22 TIME: 1:37:59 PM USER: NICK WONG



NOTE:
1. SEE C703 FOR TRAFFIC CONTROL SIGNS AND TRAFFIC CONTROL PLAN NOTES.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	TEMPORARY TYPE (III) BARRICADE WITH TYPE "A" WARNING LIGHTS
	PROPOSED DETOUR ROUTE

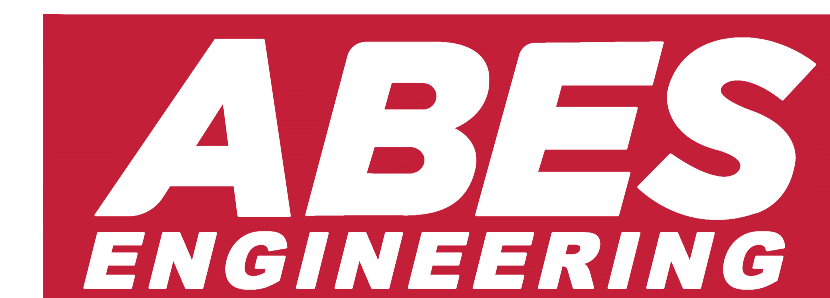
DURATION: 3 MONTHS
DATE: _____



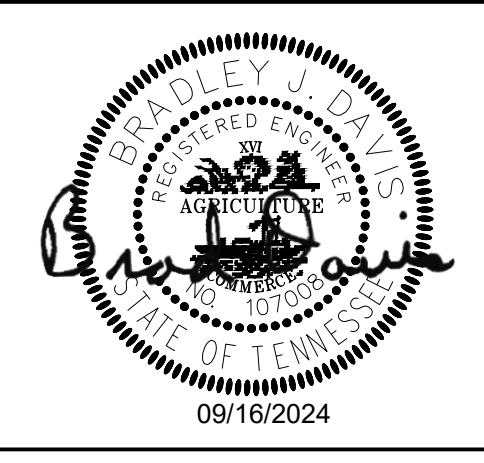
TRAFFIC CONTROL PLAN PHASE 1
SCALE: 1" = 100'



BENCHMARK:
CITY BENCHMARK (C.B.M.) - 6397-81 FRONT STREET & VANCE -
CITY MONUMENT IS LOCATED ON THE SE COR. - 4" X 4" CONC.
POST WITH BRASS CAP/NIPPLE AT BACK SIDEWALK AT MID POINT.
ELEV: 282.50 (NAVD88)



REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SOUTH FRONT STREET SEWER RELOCATION
OWNER: CITY OF MEMPHIS
ENGINEER: ABES ENGINEERING

FLOODPLAIN: THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE AE) PER FLOOD INSURANCE RATE MAP, MAP NO. 47157C0270F, EFFECTIVE DATE: SEPTEMBER 28, 2007.
SEWER BASIN: FS-03

C700

SHEET 1 OF 4
DIVISION OF ENGINEERING

TRAFFIC CONTROL PLAN PHASE 1
E BUTLER AVE & S FRONT STREET

MEMPHIS, TENNESSEE

SURVEY BY: ASHWORTH ENG. DATE: DEC-23 PROJECT NO: 290-23-001
DESIGN BY: BRAD DAVIS PE. DATE: JAN-24 SCALE: 1" = 100'
REVIEWED

CITY TRAFFIC ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING. FILE ABES PRODUCTION/ACTIVE PROJECTS/290 AQ/HPN/20-23-001 SOUTH FRONT STREET SEWER RELOCATION/WORKING/CAD/C105 TCP.dwg DATE: 2024-10-22 TIME: 1:38:29 PM USER: NICK WONG

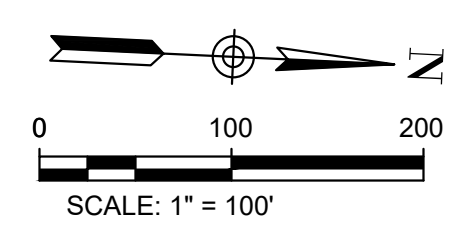


NOTE:
1. SEE C703 FOR TRAFFIC CONTROL SIGNS AND TRAFFIC CONTROL PLAN NOTES.

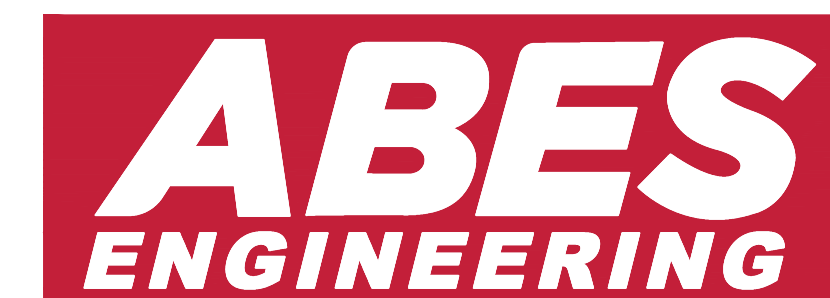
TRAFFIC CONTROL PLAN PHASE 2
SCALE: 1" = 100'

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	TEMPORARY TYPE (III) BARRICADE WITH TYPE "A" WARNING LIGHTS
	PROPOSED DETOUR ROUTE

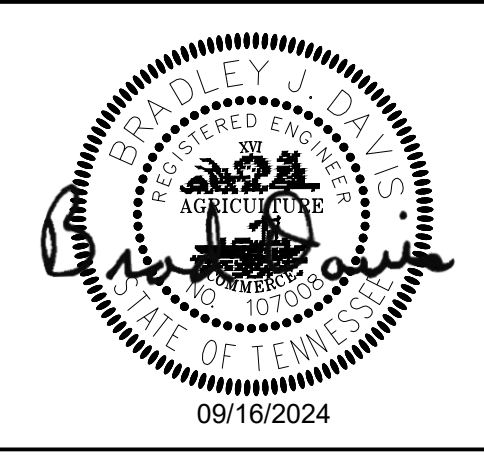
DURATION: **3 MONTHS**
DATE: _____



BENCHMARK:
CITY BENCHMARK (C.B.M.) - 6397-61 FRONT STREET & VANCE - CITY MONUMENT IS LOCATED ON THE SE COR., 4" X 4" CONC. POST WITH BRASSCAP/NIPPLE AT BACK S/WALK AT MID POINT. ELEV: 282.50 (NAVD88)



REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SOUTH FRONT STREET SEWER RELOCATION
OWNER: CITY OF MEMPHIS
ENGINEER: ABES ENGINEERING

FLOODPLAIN: THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE AE) PER FLOOD INSURANCE RATE MAP, MAP NO. 47157C0270F. EFFECTIVE DATE: SEPTEMBER 28, 2007.
SEWER BASIN: FS-03

SHEET 2 OF 4
DIVISION OF ENGINEERING

TRAFFIC CONTROL PLAN PHASE 2
E BUTLER AVE & S FRONT STREET

MEMPHIS, TENNESSEE

SURVEY BY: ASHWORTH ENG. DATE: DEC-23 PROJECT NO: 290-23-001
DESIGN BY: BRAD DAVIS PE. DATE: JAN-24 SCALE: 1" = 100'
REVIEWED

CITY TRAFFIC ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____

C701

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING. FILE:ABES PRODUCTION\ACTIVE PROJECTS\290 AQ\HPN 20-23-001 SOUTH FRONT STREET SEWER RELOCATION\WORKING\CAD\C105 TCP.dwg DATE: 2024-10-22 TIME: 1:38:51 PM USER: NICK.WONG

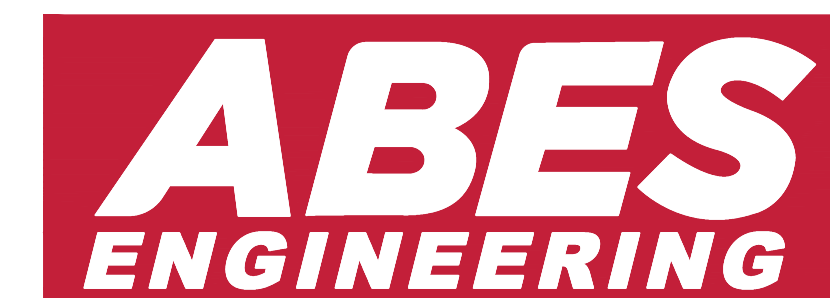
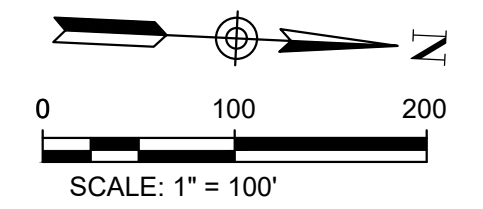


NOTE:
1. SEE C703 FOR TRAFFIC CONTROL SIGNS AND TRAFFIC CONTROL PLAN NOTES.

TRAFFIC CONTROL PLAN PHASE 3
SCALE: 1" = 100'

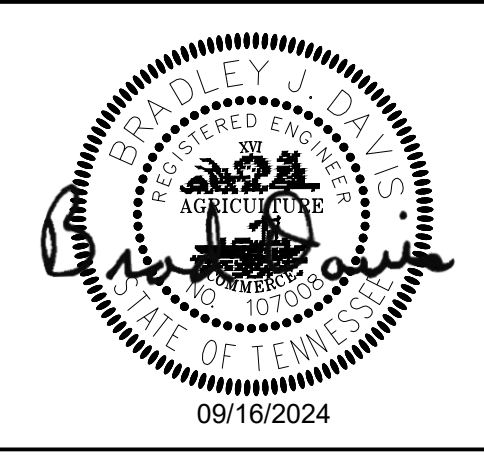
TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	TEMPORARY TYPE (III) BARRICADE WITH TYPE "A" WARNING LIGHTS
	PROPOSED DETOUR ROUTE

DURATION: 3 MONTHS
DATE: _____



BENCHMARK:
CITY BENCHMARK (C.B.M.) - 6397-61 FRONT STREET & VANCE - CITY MONUMENT IS LOCATED ON THE SE COR., 4" X 4" CONC. POST WITH BRASSCAP/NIPPLE AT BACK S/WALK AT MID POINT. ELEV: 282.50 (NAVD88)

REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SOUTH FRONT STREET SEWER RELOCATION
OWNER: CITY OF MEMPHIS
ENGINEER: ABES ENGINEERING

FLOODPLAIN: THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE AE) PER FLOOD INSURANCE RATE MAP, MAP NO. 47157C0270F, EFFECTIVE DATE: SEPTEMBER 28, 2007.
SEWER BASIN: FS-03

SHEET 3 OF 4
DIVISION OF ENGINEERING
TRAFFIC CONTROL PLAN PHASE 3
E BUTLER AVE & S FRONT STREET
MEMPHIS, TENNESSEE
SURVEY BY: ASHWORTH ENG. DATE: DEC-23 PROJECT NO: 290-23-001
DESIGN BY: BRAD DAVIS PE. DATE: JAN-24 SCALE: 1" = 100'
REVIEWED
CITY TRAFFIC ENGINEER DATE CITY ENGINEER DATE

C702

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING. FILE ABES PRODUCTION/ACTIVE PROJECTS/290 AQH/PPN 2010-23-001 SOUTH FRONT STREET SEWER RELOCATION/WORKING/CAD/105 TCF.dwg DATE: 2024-10-22 TIME: 1:38:06 PM USER: NICK.WONG



W20-3
48"x48"
①



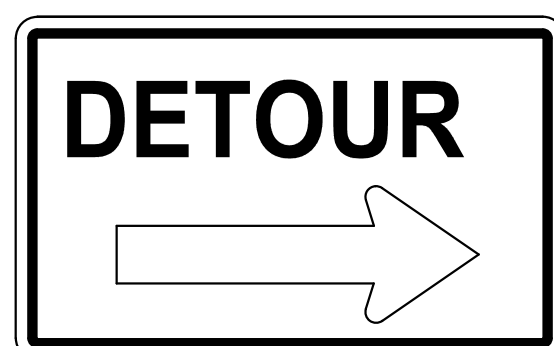
W20-2
48"x48"
②



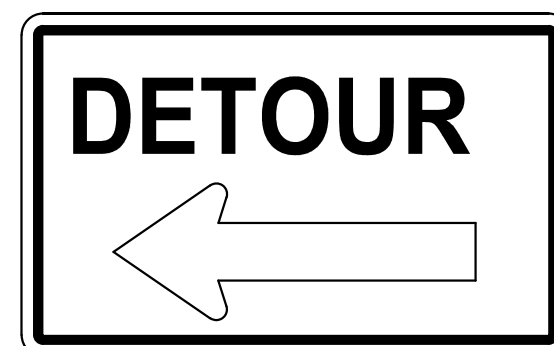
M4-9
30"x24"
③



M4-9
30"x24"
④



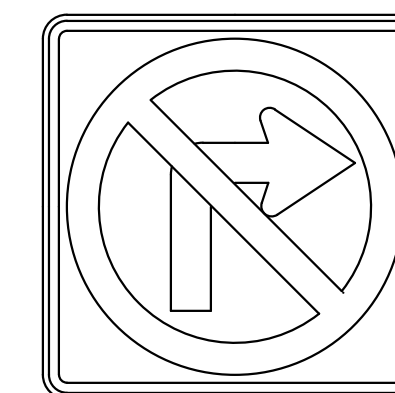
M4-9R
30"x24"
⑤



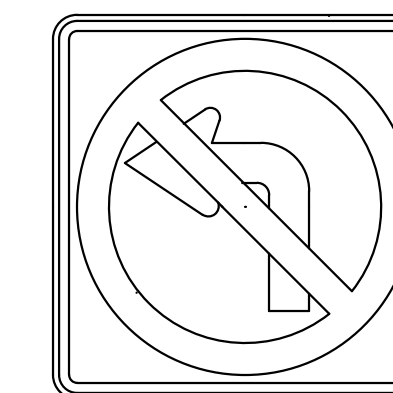
M4-9L
30"x24"
⑥



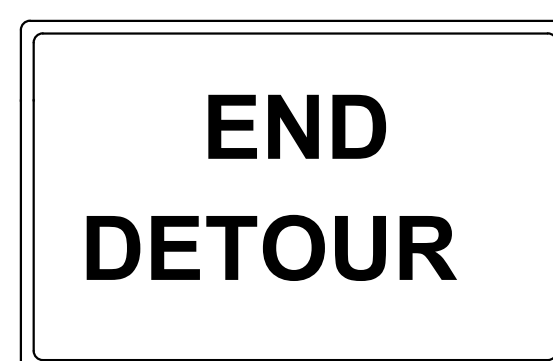
R11-4
60"x30"
⑦



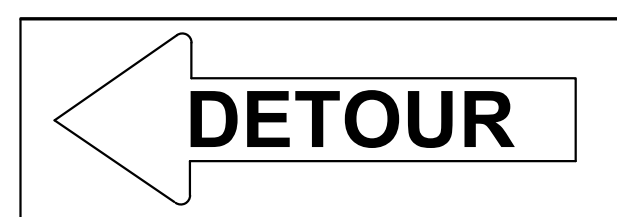
R3-1
24"x24"
⑧



R3-2
24"x24"
⑨



M4-8a
24"x18"
⑩



M4-10L
48" X 18"
⑪



M4-10R
48" X 18"
⑫



R9-11A
24"x18"
⑬



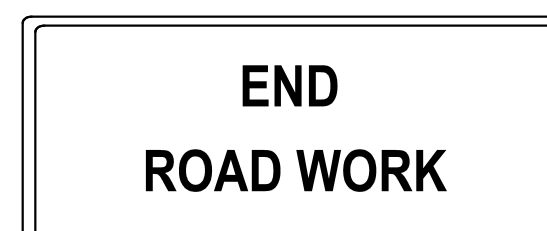
R9-11A
24"x12"
⑭



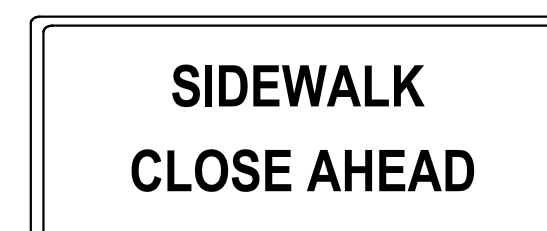
R9-9
24"x12"
⑮



R11-2
48"x30"
⑯



G20-2A
36"x18"
⑰



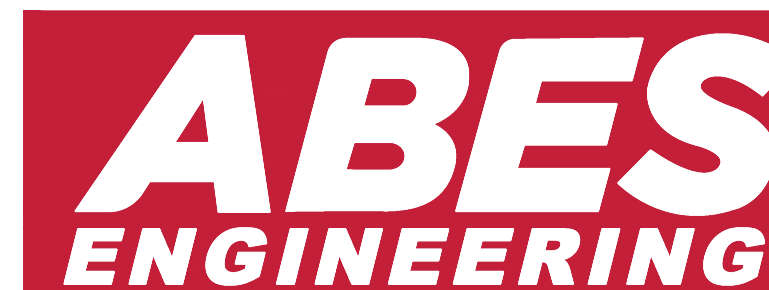
G20-2B
36"x18"
⑱



W20-1
48"x48"
⑲

TRAFFIC CONTROL SIGNS
SCALE: NTS

BENCHMARK:
CITY BENCHMARK (C.B.M.) - 6397-61 FRONT STREET & VANCE -
CITY MONUMENT IS LOCATED ON THE SE COR., 4" X 4" CONC.
POST WITH BRASS CAP/NIPPLE AT BACK SIDEWALK AT MID POINT.
ELEV: 282.50 (NAVD88)



REVISIONS		
DATE	DESCRIPTIONS	APPROVED



SOUTH FRONT STREET SEWER RELOCATION
OWNER: CITY OF MEMPHIS
ENGINEER: ABES ENGINEERING

TRAFFIC CONTROL PLAN NOTES:

- SEE SECTION 6F.02, SIGN PLACEMENT, OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR INFORMATION ON PLACEMENT AND MOUNTING OF SIGNS.
- SIGNS SHOWN ON THIS PLAN ARE TO WARN TRAFFIC ABOUT THE CONSTRUCTION. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
- 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 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
- CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION DEPARTMENT (901-636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (901-636-6710) A 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.
- SIZES OF ALL SIGNS SHALL COMPLY WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE 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.
- ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
- 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.
- CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "A" WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
- DRUMS WITH TYPE "A" WARNING LIGHTS SHALL DELINEATE THE EDGE OF PAVEMENT THROUGH THE ENTIRE CONSTRUCTION AREA.
- 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.
- CONTRACTOR SHALL INSTALL TEMPORARY NO PARKING SIGNS AS REQUIRED WITHIN THE TRAFFIC CONTROL AREA.
- WORK WITHIN THE ROADWAY DURING DIFFERENT PHASES OF CONSTRUCTION SHALL NOT BE ACTIVE AT THE SAME TIME.
- ONLY ONE PHASE OF THE TRAFFIC CONTROL PLAN SHALL BE ACTIVE AT ANY ONE TIME.
- MARKINGS SHALL BE MAINTAINED IN LONG-TERM STATIONARY WORK AREAS AND SHALL MATCH AND MEET THE MARKINGS IN PLACE AT BOTH ENDS OF THE WORK AREA.
- CENTERLINE/LANE LINES SHOULD BE PLACED, REPLACED, OR DELINEATED WHERE APPROPRIATE BEFORE THE ROADWAY IS OPENED TO TRAFFIC.
- CONTRACTOR SHALL CONTACT ALL APPROPRIATE AGENCIES BEFORE CLOSING ANY ROADWAYS.
- CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS SIGNAL SHOP AT 901-528-2844 FOR LOCATION OF SIGNAL CONDUIT AND WIRES.
- 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.
- OBLITERATED MARKINGS SHALL BE UNIDENTIFIABLE AS PAVEMENT MARKINGS UNDER DAY OR NIGHT, WET OR DRY CONDITIONS. OVERLAYING EXISTING STRIPES WITH BLACK PAINT OR ASPHALT DOES NOT MEET THE REQUIREMENTS OF COVERING, REMOVAL, OR OBLITERATION; HOWEVER, THE USE OF REMOVABLE, NONREFLECTIVE, PREFORMED TAPE IS PERMITTED WHERE MARKINGS NEED TO BE COVERED TEMPORARILY.
- 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.
- ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETRO REFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 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. IF A TEMPORARY SIDEWALK IS PROVIDED, IT SHALL BE ADA ACCESSIBLE AND A MINIMUM 5 FEET WIDE PEDESTRIAN PATHWAY.
- ANY CLOSURE OF THE RIGHT OF WAY SHALL BE TIME LIMITED TO THE ACTIVE DEMOLITION OR CONSTRUCTION. CONTINUOUS UNWARRANTED CLOSURE OF THE RIGHT OF WAY SHALL NOT BE ALLOWED FOR THE DURATION OF THE PROJECT. TIME LIMITS WILL BEGIN ON THE DAY OF CLOSURE AND WILL BE MONITORED BY THE ENGINEERING CONSTRUCTION INSPECTORS (901-636-2462) ON THE JOB.
- ALL TEMPORARY OR PERMANENT TRAVELED SURFACE SHALL BE INSPECTED DAILY BY THE CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR RE-FINISHING PERFORMED.
- THE CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS TRAFFIC ENGINEERING DEPARTMENT AT 901-636-6710 AT LEAST ONE WEEK PRIOR TO CLOSING ANY ROADWAYS SO A PRESS RELEASE/NOTIFICATION CAN BE ISSUED AND CIRCULATED.
- THE CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS TRAFFIC ENGINEERING DEPARTMENT AT 901-636-6710 AT LEAST ONE WEEK PRIOR TO IMPLEMENTING THE TRAFFIC CONTROL PLAN TO DETERMINE FEES ASSOCIATED WITH ANY ENGINEERING PERMITS REQUIRED (I.E. DUMPSTER PERMITS, PARKING METER FEES, ETC.).
- 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.

FLOODPLAIN: THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (ZONE AE) PER FLOOD INSURANCE RATE MAP, MAP NO. 47157C0270F. EFFECTIVE DATE: SEPTEMBER 28, 2007.

SEWER BASIN: FS-03

SHEET 4 OF 4

DIVISION OF ENGINEERING

TRAFFIC CONTROL SIGNS
E BUTLER AVE & S FRONT STREET
MEMPHIS, TENNESSEE

SURVEY BY: ASHWORTH ENG. DATE: DEC-23 PROJECT NO: 290-23-001
DESIGN BY: BRAD DAVIS PE. DATE: JAN-24 SCALE: NTS
REVIEWED

CITY TRAFFIC ENGINEER DATE CITY ENGINEER DATE