JULY, 2021 CONSTRUCTION PLANS REVISED JANUARY, 2022

LIFT STATION REHAB DESIGN SARP10

450 JACK CARLEY CAUSEWAY

\square	SCHEDULE OF DRAWINGS
SH.	TITLE
1	COVER
2	EXISTING CONDITIONS & DEMOLITION PLAN
3	PUMP STATION SITE AND FORCE MAIN ROUTING
4	SITE PLAN
5	PUMP DETAILS
6	PUMP STATION DETAILS
7	DETAILS







Pickering Firm, Inc. Facility Design • Civil Engineering • Surveying • Transportation • Natural / Water Resources 6363 Poplar Avenue, Suite 300 Memphis, TN 38119 901.726.0810



ELEVATION: 228.11

NOTE: BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SITE DATUM WITH ALL SITE TBMS AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.



DEVELOPER: S/ ENGINEER: PICKERING FIRM, INC.



LEGEND						
The second secon	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND ELECTRIC			
	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC			
Đ-	EXISTING GUY POLE	UFO	EXISTING UNDERGROUND FIBER OPTIC			
MB	EXISTING MAILBOX	G G	EXISTING UNDERGROUND GAS LINE			
-0-	EXISTING SIGN	ww	EXISTING WATER LINE			
GV	EXISTING GAS VALVE	D	EXISTING DRAIN LINE			
WV M	EXISTING WATER VALVE	UT UT UT	EXISTING TELEPHONE LINE			
GV	EXISTING WATER METER	OIL	EXISTING UNDERGROUND OIL LINE			
·	EXISTING ROW MARKER	FM	FORCE MAIN			
E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER			
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE			

DEMOLITION NOTES:

- THE CONTRACTOR SHALL REMOVE ALL UNDERGROUND UTILITIES AND ANY OTHER ITEMS IN ACCORDANCE WITH THE TDEC AND THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL STRICTLY FOLLOW ALL CITY, STATE, AND FEDERAL GUIDELINES FOR REMOVAL AND DISPOSAL OF THESE FACILITIES.
- ALL BUILDING, CONCRETE, ASPHALT PAVEMENT, AND GRANULAR SUBBASE SHALL BE REMOVED FULL DEPTH PER THE DIRECTION OF THE GEOTECHNICAL ENGINEER. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL CITY, STATE AND FEDERAL REGULATIONS.
- CONTRACTOR SHALL REMOVE & REPAIR PAVEMENT AS REQUIRED FOR UTILITY CONSTRUCTION INCLUDING BUT NOT LIMITED TO: IRRIGATION SLEEVES, SITE LIGHTING CONDUITS, WATER LINES, SANITARY SEWER LINES, STORM DRAINAGE LINES, ETC. CONTRACTOR HAS OPTION TO BORE CONDUITS.
- PRIOR TO COMMENCING ANY UTILITY WORK, CONTRACTOR SHALL NOTIFY ANY SURROUNDING PROPERTY OWNERS WHO MAY EXPERIENCE A DISRUPTION IN SERVICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING ANY EXISTING IRRIGATION SYSTEM TO ACCOMMODATE PARTS OF THAT EXISTING SYSTEM THAT ARE REMOVED, ABANDONED OR DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO MODIFY ANY EXISTING IRRIGATION SYSTEM TO ACCOMMODATE NEW AREAS OF LANDSCAPING. ANY IRRIGATION SLEEVES SHALL BE INSTALLED PRIOR TO PAVING AND BACKFILLED PROPERLY BY THE SITE CONTRACTOR.
- THE CONTRACTOR SHALL ENSURE ADEQUATE ACCESS IS PROVIDED DURING ALL PHASES OF CONSTRUCTION. COORDINATE WITH THE PROJECT MANAGER.
- WHEN REMOVING UTILITIES, CONTRACTOR SHALL GROUT AND SEAL ANY STRUCTURES THAT ARE TO REMAIN PER LOCAL REGULATIONS.
- UTILITIES SHOWN ARE LOCATED BY FIELD SURVEY AND RECORD DRAWINGS. ADDITIONAL UNDERGROUND UTILITIES WILL BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY INACTIVE STRUCTURES & ALERT THE ENGINEER OF ANY ACTIVE, UNMAPPED STRUCTURES.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF UTILITY DEMOLITION & RELOCATION.
- 10. CONTRACTOR SHALL NOT INTERRUPT DRAINAGE FROM ADJACENT PROPERTIES AND PUBLIC RIGHT-OF-WAYS.

GENERAL NOTES:

- AT ALL CROSSINGS OF EXISTING UTILITIES. THE CONTRACTOR SHALL FIELD LOCATE BY POST HOLING OR OTHER APPROPRIATE METHODS, THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES.
- ALL SEWER TRENCHES SHALL BE PROPERLY BACKFILLED AT THE END OF EACH WORK DAY.
- ALL DISTURBED AREAS SHALL BE SEEDED (WITH A SEASONAL MIX) AND COVERED WITH STRAW AT THE END OF EACH WEEK (AT A MINIMUM) OR MORE FREQUENTLY, AS CONDITIONS DICTATE, IN ADDITION TO EROSION CONTROLS RÈFERENCED ON PLANS.
- ALL DISTURBED LAWN AREAS SHALL BE SODDED. MATCH EXISTING SOD TYPE.
- CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES, AND PUBLIC/PRIVATE INFRASTRUCTURE AND PROPERTY.

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		07/30/2021	SURVEY: PFI	DATE: JUNE, 2020	PROJECT NC	.: 24699.05
			DESIGN BY: PFI	DATE: AUG, 2020	BOOK:	1676
		GN	DRAWN BY: PFI	DATE: AUG, 2020	SCALE:	1" = 10'
ARP10				REVIEWED		











CITY OF MEMPHIS SANITARY SEWER CONSTRUCTION NOTES

- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND 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 THE CONSTRUCTION PERIMETERS. THE SITE LOCATION FOR EXISTING UTILITIES INVOLVING MLG&W, SOUTH CENTRAL BELL, TEXAS GAS COMPANY, AND/OR SEWER LOCATION CALL 811.
- 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 CONSTRUCTION MANAGER A MINIMUM OF 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED TO PREVENT EROSION.
- 6. 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.
- 3. 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 FINISHED GRADE.
- ALL SANITARY SEWER, INCLUDING SEWER 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. THEY 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.
- 1. NO TREES, SHRUBS, PERMANENT STRUCTURES, OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN THE 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 THE SEWER SYSTEM.
- 13. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO THE EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS IN A SPECIAL FLOOD HAZARD AREA (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE SUBJECT PROPERTY IS SHOWN IN A "ZONE AE": BASE FLOOD ELEVATIONS DETERMINED (EXACT TO BE DETERMINED BY AN ENGINEER) ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0405F WITH AN EFFECTIVE DATE OF 9/28/2007. NEAREST BASE FLOOD ELEVATION = 225.

PROJECT BENCHMARKS

#1902 IS LOCATED AT RIVERSIDE DRIVE AND METAL MUSEUM DRIVE CITY MONUMENT IS LOCATED ON THE EAST SIDE OF RIVERSIDE DRIVE AT THE BACK OF CURB, 9' NORTH OF CENTERLINE PROJECTION OF METAL MUSEUM DRIVE, AT THE NORTH SIDE OF A #12 INLET, 9' NORTH OF A STREET SIGN.

NAIL SET IN WEST SIDE OF POWER POLE AS SHOWN.

NOTE: BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SITE DATUM WITH ALL SITE TBMS AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND VERIFY FORCE MAIN ROUTING AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

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LIFT STA DEVELOPER: ENGINEER: PI



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	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC
Đ-	EXISTING GUY POLE	UFO	EXISTING UNDERGROUND FIBER OPTIC
MB	EXISTING MAILBOX	GG	EXISTING UNDERGROUND GAS LINE
	EXISTING SIGN	W	EXISTING WATER LINE
GV	EXISTING GAS VALVE	D	EXISTING DRAIN LINE
WV M	EXISTING WATER VALVE	UT UT UT	EXISTING TELEPHONE LINE
GV	EXISTING WATER METER	OIL	EXISTING UNDERGROUND OIL LINE
	EXISTING ROW MARKER	FM	FORCE MAIN
E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE

APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCE BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

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		07/30/2021	SURVEY: PFI	DATE: JUNE, 2020	PROJECT NO.:	24699.05
		, , ,	DESIGN BY: PFI	DATE: AUG, 2020	BOOK:	1676
		CN	DRAWN BY: PFI	DATE: AUG, 2020	SCALE:	1" = 10'
SARP10		GIN		REVIEWED		







## JULY, 2021 CONSTRUCTION PLANS REVISED JANUARY, 2022

## LIFT STATION REHAB DESIGN SARP10

# 2497 HANWOOD AVENUE

	SCHEDULE OF DRAWINGS
SH.	TITLE
1	COVER
2	EXISTING CONDITIONS & DEMOLITION PLAN
3	PUMP STATION SITE AND FORCE MAIN ROUTING
4	SEWER PLAN
5	TRAFFIC CONTROL PLAN
6	PUMP DETAILS
7	PUMP STATION DETAILS
8	DETAILS







Pickering Firm, Inc. Facility Design • Civil Engineering • Surveying • Transportation • Natural / Water Resources 6363 Poplar Avenue, Suite 300 Memphis, TN 38119 901.726.0810

<u>LEGEND</u> EXISTING UNDERGROUND ELECTRIC EXISTING FIRE HYDRANT  $4 \times 10^{-1}$  $\bigcirc$ EXISTING POWER POLE EXISTING GUY POLE **•**-EXISTING UNDERGROUND FIBER OPTIC -UFO-Ш_{МВ} EXISTING MAILBOX EXISTING SIGN ____ Gν EXISTING DRAIN LINE EXISTING GAS VALVE  $\bowtie$ WV EXISTING WATER VALVE  $\bowtie$  $\bowtie$ EXISTING WATER METER  $\mathbf{\cdot}$ EXISTING ROW MARKER EXISTING ELECTRIC TRANSFORMER S EXISTING TELEPHONE PEDESTAL SEWER MANHOLE



#### NOTE: CONTRACTOR TO LOCATE AND VERIFY FORCE MAIN ROUTING AT START OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY ISSUES.

NOTE: REMOVE ALL EXISTING PUMP STATION COMPONENTS. INSTALL NEW PUMPS.

	SEE S For Pump Stati Force Main F	SHEET 3	APPROX LOCATION - 6" FORCE MAIN				
					<u>v</u> TER FM SS	0, CURB	HANWOOD AVENUE
S #WSO305	MH 13	SMH SO30514.01 PROX LOCATION ANITARY SEWER		R.O.W.			
	LOT 8		LOT 37	     LOT 36   		LOT 35	LOT 34
TING UNDERGROUND ELECTRIC TING OVERHEAD ELECTRIC TING UNDERGROUND FIBER OPTIC TING UNDERGROUND GAS LINE TING WATER LINE	LOT 9	DEMOLITION NOTES:         1. THE CONTRACTOR SHA         ACCORDANCE WITH TH         SHALL STRICTLY FOLLO         DISPOSAL OF THESE F         2. ALL BUILDING, CONCRI         REMOVED FULL DEPTH         MATERIALS SHALL BE         REGULATIONS.         3. CONTRACTOR SHALL R         CONSTRUCTION INCLUE         CONSTRUCTION INCLUE	LL REMOVE ALL UNDERGROUND UTIL E TDEC AND THE TECHNICAL SPECIFI OW ALL CITY, STATE, AND FEDERAL G FACILITIES. ETE, ASPHALT PAVEMENT, AND GRANU PER THE DIRECTION OF THE GEOTE DISPOSED OF IN ACCORDANCE WITH EMOVE & REPAIR PAVEMENT AS REQ DING BUT NOT LIMITED TO: IRRIGATION	ITIES AND ANY OTHER ITEMS IN ICATIONS. THE CONTRACTOR GUIDELINES FOR REMOVAL AND JLAR SUBBASE SHALL BE ICHNICAL ENGINEER. ALL ALL CITY, STATE AND FEDERAL		I PICKERING FIRM INCORPOP NFORMATION REGARDING THE F EXISTING UNDERGROUND UTILITI SHOWN HEREON. THERE IS NO SHALL BE CONSIDERED IN THAT ARRANGEMENT OF UNDERGROUN JTILITIES SHOWN HEREON MAY JNDERGROUND UTILITIES NOT S HIS CONSULTANTS AND HIS CO ENGINEER IS NOT RESPONSIBLE REGARDING THE UNDERGROUND JTILITIES SHOWN HEREON.	REPUTED PRESENCE, SIZE, CHARACTER ES AND STRUCTURES RELATED TO UN O CERTAINTY OF THE ACCURACY OF T I LIGHT BY THOSE USING THIS DRAWII ND UTILITIES AND STRUCTURES RELATE BE INACCURATE AND UTILITIES AND S SHOWN MAY BE ENCOUNTERED. THE NTRACTORS SHALL HEREBY DISTINCTLY FOR THE CORRECTNESS OR SUFFICI UTILITIES AND STRUCTURES RELATED
TING DRAIN LINE TING TELEPHONE LINE TING UNDERGROUND OIL LINE CE MAIN TARY SEWER ER MANHOLE		<ul> <li>CONDUITS, WATER LINE CONTRACTOR HAS OPT</li> <li>4. PRIOR TO COMMENCIN SURROUNDING PROPER</li> <li>5. THE CONTRACTOR SHA SYSTEM TO ACCOMMOD ABANDONED OR DAMAG MODIFY ANY EXISTING LANDSCAPING. ANY IRF BACKFILLED PROPERLY</li> <li>6. THE CONTRACTOR SHA OF CONSTRUCTION. CO</li> <li>7. WHEN REMOVING UTILI ARE TO REMAIN PER</li> <li>8. UTILITIES SHOWN ARE</li> </ul>	ES, SANITARY SEWER LINES, STORM I TON TO BORE CONDUITS. G ANY UTILITY WORK, CONTRACTOR S RTY OWNERS WHO MAY EXPERIENCE ALL BE RESPONSIBLE FOR MODIFYING DATE PARTS OF THAT EXISTING SYSTE GED DURING CONSTRUCTION. THE C IRRIGATION SYSTEM TO ACCOMMODAT RIGATION SLEEVES SHALL BE INSTALL ' BY THE SITE CONTRACTOR. ALL ENSURE ADEQUATE ACCESS IS PH DORDINATE WITH THE PROJECT MANAG TIES, CONTRACTOR SHALL GROUT ANI LOCATED BY FIELD SURVEY AND BE	DRAINAGE LINES, ETC. SHALL NOTIFY ANY A DISRUPTION IN SERVICE. ANY EXISTING IRRIGATION EM THAT ARE REMOVED, CONTRACTOR SHALL ALSO TE NEW AREAS OF ED PRIOR TO PAVING AND ROVIDED DURING ALL PHASES GER. D SEAL ANY STRUCTURES THAT	G 1. 2 3 4 5	ENERAL NOTES: AT ALL CROSSINGS OF EXI POST HOLING OR OTHER A LOCATION OF ALL EXISTING ALL SEWER TRENCHES SHA ALL DISTURBED AREAS SHA STRAW AT THE END OF EA CONDITIONS DICTATE, IN AE ALL DISTURBED LAWN ARI CONTRACTOR IS FULLY RES PUBLIC/PRIVATE INFRASTRU	STING UTILITIES, THE CONTRACTOR SH PPROPRIATE METHODS, THE HORIZONT UTILITIES. ALL BE PROPERLY BACKFILLED AT THE ALL BE SEEDED (WITH A SEASONAL MI CH WEEK (AT A MINIMUM) OR MORE DITION TO EROSION CONTROLS REFER EAS SHALL BE SODDED. MATCH EXISTI SPONSIBLE FOR DAMAGES TO EXISTING CTURE AND PROPERTY.
		<ol> <li>OTHERTICS SHOWN ARE UNDERGROUND UTILITIE RESPONSIBILITY TO RE ACTIVE, UNMAPPED ST</li> <li>9. THE CONTRACTOR SHA DEMOLITION &amp; RELOCA</li> <li>10. CONTRACTOR SHALL N RIGHT-OF-WAYS.</li> </ol>	ECUALED BY HELD SORVET AND REC ES WILL BE ENCOUNTERED. IT IS THE MOVE ANY INACTIVE STRUCTURES & RUCTURES. ALL BE RESPONSIBLE FOR ALL COORI ITION. OT INTERRUPT DRAINAGE FROM ADJA	E CONTRACTOR'S ALERT THE ENGINEER OF ANY DINATION OF UTILITY CENT PROPERTIES AND PUBLIC			ITEM DESC NO. () 1 GENER

DEVELOPER: SARP10



ENGINEER: PICKERING FIRM, INC.



:4699.05\CAD\PLANS\3FM ROUTING.DWG — January 27, 202

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	Gravity Main	
	Facility ID	WS030514S
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	Material	CP
	Modeled	No
	US Elevation	
	DS Elevation	
	Length (ft)	222
	Status	Field Verified
	Comments	
	CCTV Video	More info
	Link to Report	More info
	Reverse CCTV Vide	0
	Link to Reverse Rep	ort
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- FOR EXISTING UTILITIES INVOLVING MLG&W. SOUTH CENTRAL BELL, TEXAS GAS COMPANY, AND/OR SEWER LOCATION CALL 811.
- 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 CONSTRUCTION MANAGER A MINIMUM OF 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED. MULCHED. FERTILIZED, AND/OR SODDED TO PREVENT EROSION.
- 6. 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 STANDARD SST-16.
- 9. ALL SANITARY SEWER, INCLUDING SEWER CONNECTIONS, WHICH HAS LESS THAN 1.5 CLEARANCE 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.
- 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 THE 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 INFLOW INTO THE SEWER SYSTEM.

THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN THE CONSTRUCTION PERIMETERS. THE SITE LOCATION

SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS

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 FINISHED GRADE.

(OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE

10. THEY 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

PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE

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

- AT ALL CROSSINGS OF EXISTING UTILITIES, THE CONTRACTOR SHALL FIELD LOCATE BY POST HOLING OR OTHER APPROPRIATE METHODS, THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES.
- ALL SEWER TRENCHES SHALL BE PROPERLY BACKFILLED AT THE END OF EACH WORK DAY.
- ALL DISTURBED AREAS SHALL BE SEEDED (WITH A SEASONAL MIX) AND COVERED WITH STRAW AT THE END OF EACH WEEK (AT A MINIMUM) OR MORE FREQUENTLY, AS CONDITIONS DICTATE, IN ADDITION TO EROSION CONTROLS REFERENCED ON PLANS.
- . ALL DISTURBED LAWN AREAS SHALL BE SODDED. MATCH EXISTING SOD TYPE.

CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES, AND PUBLIC/PRIVATE INFRASTRUCTURE AND PROPERTY.

### NOTE:

BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND VERIFY FORCE MAIN ROUTING AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

## FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS IN A "ZONE X" NO SHADING (AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0290F WITH AN EFFECTIVE DATE OF SEPTEMBER 28. 2007. NEAREST BASE FLOOD ELEVATION = 233.

#### PROJECT BENCHMARKS CITY BENCHMARK: #314 IS LOCATED AT HOLLYWOOD STREET AND HEARD AVENUE CITY MONUMENT IS LOCATED ON THE NORTHEAST CORNER AT BACK OF CURB AT ER ON HEARD AVENUE SIDE. ELEVATION: 245.35 <u>SITE TBM #1</u>

NAIL SET IN NORTH SIDE OF POWER POLE AS SHOWN. ELEVATION: 234.86

NOTE: BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SITE DATUM WITH ALL SITE TBMS AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

## TEM DES 1 GENE

LIFT STA DEVELOPER: SARP10

### EROSION AND SEDIMENTATION CONTROL NOTES:

- 1. ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION.
- 2. SILT FENCES AND OTHER BEST MANAGEMENT PRACTICES SHALL BE USED AS SHOWN AND AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES AND OTHER BEST MANAGEMENT PRACTICES WHERE NECESSARY TO PREVENT DOWNSTREAM SILTATION OF ANY DITCHES. PIPES, DRAINAGE STRUCTURES, OR ADJACENT PROPERTIES. THE CONTROLS SHOWN ON THE PLAN ARE THE MINIMUM REQUIRED AND THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE TDEC STORM WATER CONSTRUCTION GENERAL PERMIT FOR ALL EROSION CONTROL DURING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REPORTING ANY MAINTENANCE AS REQUIRED BY THE TDEC STORM WATER CONSTRUCTION GENERAL PERMIT DURING CONSTRUCTION ACTIVITIES.
- PROVISIONS SHALL BE MADE TO PROTECT DOWNSTREAM WATERCOURSES (I.E., STORM SEWER SYSTEMS. DITCHES. WETLANDS. ETC.) FROM SEDIMENT RUNOFF DEVELOPED FROM THE CONSTRUCTION PROCESS. PROVISIONS INCLUDE. BUT ARE NOT LIMITED TO. STRUCTURAL CONTROLS SUCH AS SILT FENCING, GEOTEXTILE FABRIC PROTECTION OF STORM SEWERS. HAY BALES. DIKES AND SANDBAG BERMS: AND/OR VEGETATION CONTROLS SUCH AS SEEDING OR EXISTING VEGETATIVE BUFFER STRIPS (MINIMUM 25 FEET WIDE).
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON PLANS.
- 8. CONTRACTOR SHALL PERFORM STREET CLEANING ON ROADS AND STREETS ADJACENT TO THE PROJECT WHICH ARE USED AS ACCESS ROUTES FOR CONSTRUCTION TRAFFIC IF NECESSARY. WASHING OF STREETS IS PROHIBITED.
- 9. LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. USE A MINIMUM 60 MIL POLYETHYLENE LINER UNDER ABOVE GROUND STORAGE TANKS. USE 2 FOOT HIGH BERMS AROUND FUEL STORAGE AREAS.
- 10. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL ENVIRONMENTAL LAWS. 11. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF FUELS, MATERIALS AND CONTAMINATED
- EXCAVATIONS IN A LEGALLY APPROVED MANNER. 12. AT A MINIMUM, STRUCTURAL CONTROLS SHOULD BE INSPECTED TWICE EVERY CALENDAR WEEK AT LEAST 72 HOURS APART. THE INSPECTOR, APPROVED BY THE OWNER, SHALL HAVE AN ACTIVE CERTIFICATION BY COMPLETING THE "FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL LEVEL I" COURSE. A COPY OF THE CERTIFICATION SHALL BE KEPT ONSITE, SHOULD CONTROLS BECOME INEFFECTIVE, NECESSARY REPAIRS SHALL BE PERFORMED TO RETURN THE INTEGRITY OF THE STRUCTURAL CONTROLS.
- 13. EQUIPMENT STAGING AREA TO BE DESIGNATED BY CONTRACTOR AND APPROVED BY OWNER PRIOR TO CONSTRUCTION.
- 14. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM FACE OF THE SILT FENCE WHEN IT REACHES A MAXIMUM DEPTH OF 50% OF THE FENCE'S CAPACITY. THE FENCE WILL BE REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
- 15. TEMPORARY SEEDING MAY BE REQUIRED IN ADDITION TO PERMANENT SEEDING TO ASSIST IN COMPLYING WITH THE CONSTRUCTION GENERAL PERMIT.





LEGEND

X

NOTE:

TEMPORARY INLET PROTECTION

6

NORTH

1 INCH = 10 FEET

10

## VICINITY MAP (NTS)

LEGEND						
	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND ELECTRIC			
	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC			
Ð	EXISTING GUY POLE	UF0	EXISTING UNDERGROUND FIBER OPTIC			
□ MB	EXISTING MAILBOX	GG	EXISTING UNDERGROUND GAS LINE			
_0	EXISTING SIGN	ww	EXISTING WATER LINE			
GV	EXISTING GAS VALVE	D	EXISTING DRAIN LINE			
××	EXISTING WATER VALVE	UT UT UT	EXISTING TELEPHONE LINE			
N S S	EXISTING WATER METER	OIL	EXISTING UNDERGROUND OIL LINE			
$\overline{\mathbf{\cdot}}$	EXISTING ROW MARKER	FM	FORCE MAIN			
E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER			
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE			

PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER:

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## APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCE BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

REVISION						
CRIPTION OF CHANGE	APPROVAL DATE	NUMBER W. M. M.				
ERAL REVISIONS	01/28/2022	ERED BACCO		SEWER BASIN: WS	-03	
		V AND XVI ARA ANA		SHEET 1 OF	1	4
		H AGRICULTURE		DIVISION OF ENGINEE	RING	
		A to aver the second second		SEWER PLA	N	
		OF TENNE		2497 Hanwood Ave	enue	
				MEMPHIS, TENNESSE	E	
		07/30/2021	SURVEY: PFI	DATE: JUNE, 2020	PROJECT NO .:	24699.05
			DESIGN BY: PFI	DATE: AUG, 2020	BOOK:	1676
ATION REP		IGN	DRAWN BY: PFI	DATE: AUG, 2020	SCALE:	1" = 10'
				REVIEWED		

ENGINEER: PICKERING FIRM, INC.



ENGINEER: PICKERING FIRM, INC.



![](_page_13_Figure_0.jpeg)

DEVELOPER:	
ENGINEER:	

![](_page_14_Figure_0.jpeg)

## JULY, 2021 CONSTRUCTION PLANS

## LIFT STATION REHAB DESIGN SARP10

# 4329 WILDWOOD ROAD

	SCHEDULE OF DRAWINGS
SH.	TITLE
1	COVER
2	EXISTING CONDITIONS & DEMOLITION PLAN
3	PUMP STATION SITE AND FORCE MAIN ROUTING
4	SEWER PLAN
5	PUMP DETAILS
6	PUMP STATION DETAILS
7	DETAILS

![](_page_15_Picture_5.jpeg)

VICINITY MAP N.T.S.

![](_page_15_Picture_7.jpeg)

Pickering Firm, Inc. Facility Design • Civil Engineering • Surveying • Transportation • Natural / Water Resources 6363 Poplar Avenue, Suite 300 Memphis, TN 38119 901.726.0810

![](_page_16_Figure_0.jpeg)

![](_page_16_Figure_1.jpeg)

![](_page_16_Figure_2.jpeg)

RIGHT-OF-WAYS.

NOTE: CONTRACTOR TO LOCATE AND VERIFY FORCE MAIN ROUTING AT START OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY ISSUES.

NOTE

-8" SS

REMOVE ALL EXISTING PUMP STATION COMPONENTS EXCEPT PUMPS AND WET WELL. REMOVE 25 LF OF CHAIN LINK FENCE FOR BYPASS VAULT.

				1				
	REVISION							
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE	W. M. J.					
			T H AGRICULTURE			SHEET 1 OF DIVISION OF ENGINEE	1 RING	2
			A DE MERCE	EXIS	TING	CONDITIONS & DE	EMOLITION P	LAN
			OF TENNE			4329 Wildwood Ro	oad	
						MEMPHIS, TENNESSE	E	
			07/30/2021	SURVEY: DESIGN BY:	PFI PFI	DATE: JUNE, 2020 DATE: AUG, 2020	PROJECT NO.: BOOK:	24699.05 1676
	STATION REP		GN	DRAWN BY:	PFI	DATE: AUG, 2020	SCALE:	1" = 10'
	DPER: SARP10 ER: PICKERING FIR	M. INC.				REVIEWED		

![](_page_16_Picture_7.jpeg)

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ONTRACTOR	
EMOVAL AND	

	LEGEND								
	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND ELECTRIC						
	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC						
<b>•</b> -	EXISTING GUY POLE	UFO	EXISTING UNDERGROUND FIBER OPTIC						
MB	EXISTING MAILBOX	GG	EXISTING UNDERGROUND GAS LINE						
<u> </u>	EXISTING SIGN	ww	EXISTING WATER LINE						
GV	EXISTING GAS VALVE	D	EXISTING DRAIN LINE						
WV M	EXISTING WATER VALVE	UT UT UT	EXISTING TELEPHONE LINE						
GV	EXISTING WATER METER	OIL	EXISTING UNDERGROUND OIL LINE						
$\overline{\ }$	EXISTING ROW MARKER	FM	FORCE MAIN						
E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER						
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE						

FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS IN A "ZONE X" NO SHADING (AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0301G WITH AN EFFECTIVE DATE OF FEBRUARY 6, 2013. NEAREST BASE FLOOD ELEVATION = 254.

## PROJECT BENCHMARKS

<u>CITY BENCHMARK:</u> #32 IS LOCATED AT AUSTIN PEAY HIGHWAY AND NEW BROWNSVILLE ROAD CITY MONUMENT IS AT THE SOUTHEAST CORNER AT BACK OF CURB ON THE SOUTH SIDE OF NEW BROWNSVILLE ROAD, 125 EAST OF AUSTIN PEAY HIGHWAY, 45' SOUTH OF CENTERLINE OF NEW BROWNSVILLE ROAD AT END OF SIDEWALK, 14 EAST OF END OF CURB. ELEVATION: 295.13

<u>SITE TBM #1</u> NAIL SET IN SOUTH SIDE OF POWER POLE AS SHOWN. ELEVATION: 293.86

NOTE: BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SITE DATUM WITH ALL SITE TBMS AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER:

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GENERAL NOTES:

- AT ALL CROSSINGS OF EXISTING UTILITIES, THE CONTRACTOR SHALL FIELD LOCATE BY POST HOLING OR OTHER APPROPRIATE MÉTHODS, THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES.
- 2. ALL SEWER TRENCHES SHALL BE PROPERLY BACKFILLED AT THE END OF EACH WORK DAY.
- ALL DISTURBED AREAS SHALL BE SEEDED (WITH A SEASONAL MIX) AND COVERED WITH STRAW AT THE END OF EACH WEEK (AT A MINIMUM) OR MORE FREQUENTLY, AS CONDITIONS DICTATE, IN ADDITION TO EROSION CONTROLS REFERENCED ON PLANS.
- 4. ALL DISTURBED LAWN AREAS SHALL BE SODDED. MATCH EXISTING SOD TYPE.
- CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES, AND PUBLIC/PRIVATE INFRASTRUCTURE AND PROPERTY.

#### CITY OF MEMPHIS STANDARD DRAWINGS

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<u>~`</u>

The following Standard Drawings are included in the construction plans <u>by reference</u>. All construction shall conform to the City of Memphis Design Standards.

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1 e	DR	AWING <u>NO.</u>	DESCRIPTION		
		SS7-1	PRECAST SANITARY MANHOLE		ROAL
•	1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 -	SST-2	SANITARY MANHOLE DROP CONSTRUCTION		·Ψ
a. 1		SST-3	1. SMALL DIA. SEWER BEDDING, 2. CONCRETE ENCASEMENT		SVILI
n		SST-5	NO. 7 MANHOLE RIM AND COVER		MMO
	•	SST-9	MANUFACTURED REINFORCED BOTTOM FOR PRECAST MANHOLE		BR
-	- -	SST-11	AIR RELEASE VALVE	ΠÎ.	- <b></b>
		SST-12	CONCRETE THRUST BLOCKING		₩
۰.		SST-16	SERVICE CONNECTION	10 I	z
		۲ ۲			
		-	BANBURY	. :	/

![](_page_17_Figure_5.jpeg)

BENCHMARK VP-5, ELEV. 301.57', P.K.NAIL CENTERLINE OF ROAD AT CENTERLINE OF DRIVE EXTENDED (ADDRESS 5772 CRIEVEWOOD DRIVE). ELEVATION ON CITY OF MEMPHIS DATUM.

![](_page_17_Picture_15.jpeg)

DEVELOPER: SARP10 ENGINEER: PICKERING FIRM, INC.

![](_page_18_Figure_0.jpeg)

#### EROSION AND SEDIMENTATION CONTROL NOTES:

- ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION.
- 2. SILT FENCES AND OTHER BEST MANAGEMENT PRACTICES SHALL BE USED AS SHOWN AND AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION. . THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES AND OTHER BEST MANAGEMENT PRACTICES WHERE NECESSARY TO PREVENT DOWNSTREAM SILTATION OF ANY DITCHES, PIPES, DRAINAGE STRUCTURES, OR ADJACENT PROPERTIES. THE CONTROLS SHOWN ON THE PLAN ARE THE MINIMUM REQUIRED AND THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE TDEC STORM WATER CONSTRUCTION GENERAL PERMIT FOR ALL EROSION CONTROL DURING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REPORTING ANY MAINTENANCE AS REQUIRED BY THE TDEC STORM WATER CONSTRUCTION GENERAL PERMIT DURING CONSTRUCTION ACTIVITIES.
- PROVISIONS SHALL BE MADE TO PROTECT DOWNSTREAM WATERCOURSES (I.E., STORM SEWER SYSTEMS, DITCHES, WETLANDS, ETC.) FROM SEDIMENT RUNOFF DEVELOPED FROM THE CONSTRUCTION PROCESS. PROVISIONS INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL CONTROLS SUCH AS SILT FENCING, GEÓTEXTILE FABRIC PROTECTION OF STORM SEWERS, HAY BALES, DIKES AND SANDBAG BERMS; AND/OR VEGETATION CONTROLS SUCH AS SEEDING OR EXISTING VEGETATIVE BUFFER STRIPS (MINIMUM 25 FEET WIDE).
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON PLANS.
- CONTRACTOR SHALL PERFORM STREET CLEANING ON ROADS AND STREETS ADJACENT TO THE PROJECT WHICH ARE USED AS ACCESS ROUTES FOR CONSTRUCTION TRAFFIC IF NECESSARY. WASHING OF STREETS IS PROHIBITED.
- 9. LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. USE A MINIMUM 60 MIL POLYETHYLENE LINER UNDER ABOVE GROUND STORAGE TANKS. USE 2 FOOT HIGH BERMS AROUND FUEL STORAGE AREAS.
- 10. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL ENVIRONMENTAL LAWS.
- 11. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF FUELS, MATERIALS AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
- 12. AT A MINIMUM, STRUCTURAL CONTROLS SHOULD BE INSPECTED TWICE EVERY CALENDAR WEEK AT LEAST 72 HOURS APART. THE INSPECTOR, APPROVED BY THE OWNER, SHALL HAVE AN ACTIVE CERTIFICATION BY COMPLETING THE "FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL LEVEL I" COURSE. A COPY OF THE CERTIFICATION SHALL BE KEPT ONSITE, SHOULD CONTROLS BECOME INEFFECTIVE, NECESSARY REPAIRS SHALL BE PERFORMED TO RETURN THE INTEGRITY OF THE STRUCTURAL CONTROLS.
- 13. EQUIPMENT STAGING AREA TO BE DESIGNATED BY CONTRACTOR AND APPROVED BY OWNER PRIOR TO CONSTRUCTION.
- AS NECESSARY TO MAINTAIN A BARRIER.
- 15. TEMPORARY SEEDING MAY BE REQUIRED IN ADDITION TO PERMANENT SEEDING TO ASSIST IN COMPLYING WITH THE CONSTRUCTION GENERAL PERMIT.

#### CITY OF MEMPHIS SANITARY SEWER CONSTRUCTION NOTES

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND 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 THE CONSTRUCTION PERIMETERS. THE SITE LOCATION FOR EXISTING UTILITIES INVOLVING MLG&W, SOUTH CENTRAL BELL, TEXAS GAS COMPANY, AND/OR SEWER LOCATION CALL 811.

- 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 CONSTRUCTION MANAGER A MINIMUM OF 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED TO PREVENT EROSION.
- 6. 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.
- 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 FINISHED GRADE.
- ALL SANITARY SEWER, INCLUDING SEWER 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. THEY 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 THE 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 THE SEWER SYSTEM.
- 13. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO THE EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

#### **GENERAL NOTES:**

- AT ALL CROSSINGS OF EXISTING UTILITIES. THE CONTRACTOR SHALL FIELD LOCATE BY POST HOLING OR OTHER APPROPRIATE METHODS, THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES.
- ALL SEWER TRENCHES SHALL BE PROPERLY BACKFILLED AT THE END OF EACH WORK DAY.
- ALL DISTURBED AREAS SHALL BE SEEDED (WITH A SEASONAL MIX) AND COVERED WITH STRAW AT THE END OF EACH WEEK (AT A MINIMUM) OR MORE FREQUENTLY, AS CONDITIONS DICTATE, IN ADDITION TO EROSION CONTROLS REFERENCED ON PLANS.
- ALL DISTURBED LAWN AREAS SHALL BE SODDED. MATCH EXISTING SOD TYPE.
- CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES, AND PUBLIC/PRIVATE INFRASTRUCTURE AND PROPERTY.

## NOTE:

BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND VERIFY FORCE MAIN ROUTING AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

#### FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS IN A "ZONE X" NO SHADING (AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0301G NEAREST BASE FLOOD ELEVATION = 254.

## PROJECT BENCHMARKS

ELEVATION: 295.13

CITY BENCHMARK: #32 IS LOCATED AT AUSTIN PEAY HIGHWAY AND NEW BROWNSVILLE ROAD CITY MONUMENT IS AT THE SOUTHEAST CORNER AT BACK OF CURB ON THE SOUTH SIDE OF NEW BROWNSVILLE ROAD, 125 EAST OF AUSTIN PEAY HIGHWAY, 45' SOUTH OF CENTERLINE OF NEW BROWNSVILLE ROAD AT END OF SIDEWALK, 14 EAST OF END OF CURB.

SITE TBM #1 NAIL SET IN SOUTH SIDE OF POWER POLE AS SHOWN.

ELEVATION: 293.86

NOTE: BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SITE DATUM WITH ALL SITE TBMS AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

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	REVISION						
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE	W. M. dage				
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			AGRICULTURE		DIVISION OF ENGINEE	RING	
			A to we prime a		SEWER PLA	N	
			OF TENNE		4329 Wildwood R	oad	
					MEMPHIS, TENNESS	ΞE	
			07/30/2021	SURVEY: PFI	DATE: JUNE, 2020	PROJECT NO .:	24699.05
				DESIGN BY: PFI	DATE: AUG, 2020	BOOK:	1676
I IFT	STATION REP		IGN	DRAWN BY: PFI	DATE: AUG, 2020	SCALE:	1" = 10'
<b>6-11</b>					REVIEWED		
DEVELO	PER: SARP10						
ENGINE	ER: PICKERING FIR	M, INC.					

- 14. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM FACE OF THE SILT FENCE WHEN IT REACHES A MAXIMUM DEPTH OF 50% OF THE FENCE'S CAPACITY. THE FENCE WILL BE REPLACED

![](_page_18_Figure_55.jpeg)

## PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER:

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#### APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCE BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

![](_page_19_Figure_0.jpeg)

ITEM NO.	DESC

![](_page_20_Figure_0.jpeg)

#### LIFT STATION REHAB NOTES:

N.T.S.

- EXISTING PRECAST CONCRETE WET WELL AND PUMPS TO REMAIN.

- REMOVE GREASE CAP IF STATION HAS ACCUMULATED GREASE.
- CLEAN AND COAT EXISTING WET WELL WITH A 2-COAT EPOXY-MODIFIED-MORTAR LINING AND HYBRID EPOXY COATING PER MANUFACTURES RECOMMENDATIONS. COVER EXPOSED REBAR WITH COMPATIBLE PRIMER AND MORTAR AND SEAL ANY LEAKS WITH HYDRAULIC CEMENT.
- FOR REFERENCE PUMPS: 25HP @ 1760 RPM 265 GPM TDH = 138 FT
  - 6" PVC FORCE MAIN @ 9,600 LF

6 13/16 [°] 3'-5 15/16 [°] 5'-2 1/16 [°] 6'-8" 2'-1/16 [°]

- 2. IF THE DISCHARGE LINE IS LESS THAN 200 FEET IN LENGTH, A CHECK VALVE OR PRIMING

- 5. FLOAT SWITCH CONTROLS SHOWN. OPTIONAL PRESSURE TRANSDUCER, HIGH WATER AND

	REVISION						
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE	REED ENCO				
			T suist XVI the Hann		SHEET 1 OF	1	6
			H AGRICULTURE		DIVISION OF ENGINEE	ERING	
			OF TENNING	PUN	IP STATION D 4329 Wildwood R	DETAILS oad	
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		MEMPHIS. TENNESS	EE	
			07/30/2021	SURVEY: PFI	DATE: JUNE, 2020	PROJECT NO.:	24699.05
	STATION REI	HAR DESI	IGN	DRAWN BY: PFI	DATE: AUG, 2020	SCALE:	N.T.S.
DEVELC ENGINE	DPER: SARP10 ER: PICKERING FIR	M, INC.			REVIEWED		

JULY, 2021 CONSTRUCTION PLANS

LIFT STATION REHAB DESIGN SARP10

4884 S. THIRD STREET (HIGHWAY 61)

\square	SCHEDULE OF DRAWINGS
SH.	TITLE
1	COVER
2	EXISTING CONDITIONS & DEMOLITION PLAN
3	PUMP STATION SITE AND FORCE MAIN ROUTING
4	SEWER PLAN
5	PUMP DETAILS
6	PUMP STATION DETAILS
7	DETAILS

N.T.S.

Pickering Firm, Inc. Facility Design • Civil Engineering • Surveying • Transportation • Natural / Water Resources 6363 Poplar Avenue, Suite 300 Memphis, TN 38119 901.726.0810

ITEM NO.	DESC

LEGEND							
THE STATE	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND ELECTRIC				
	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC				
Ð-	EXISTING GUY POLE	UFO	EXISTING UNDERGROUND FIBER OPTIC				
MB	EXISTING MAILBOX	GG	EXISTING UNDERGROUND GAS LINE				
<u> </u>	EXISTING SIGN	ww	EXISTING WATER LINE				
GV	EXISTING GAS VALVE	D	EXISTING DRAIN LINE				
WV N	EXISTING WATER VALVE	UT UT UT	EXISTING TELEPHONE LINE				
GV	EXISTING WATER METER	OIL	EXISTING UNDERGROUND OIL LINE				
·	EXISTING ROW MARKER	FM	FORCE MAIN				
E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER				
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE				

FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS IN A "ZONE X" NO SHADING (AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0415F WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2007. NEAREST BASE FLOOD ELEVATION = 238.

PROJECT BENCHMARKS

CITY BENCHMARK: #1068 IS LOCATED AT THE EAST SIDE OF HIGHWAY 61 IN FRONT OF ADDRESS #4844, CITY MONUMENT IS LOCATED 34' EAST OF CENTERLINE OF HIGHWAY, 35' NORTH OF DRIVEWAY AND 59' SOUTH OF A FIRE HYDRANT. ELEVATION: 284.13

<u>SITE TBM #1</u> NAIL SET IN WEST SIDE OF POWER POLE AS SHOWN. ELEVATION: 274.73

NOTE: BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SITE DATUM WITH ALL SITE TBMS AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER:

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE ENGINEER IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION REGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON.

GENERAL NOTES:

- AT ALL CROSSINGS OF EXISTING UTILITIES, THE CONTRACTOR SHALL FIELD LOCATE BY POST HOLING OR OTHER APPROPRIATE MÉTHODS, THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES.
- 2. ALL SEWER TRENCHES SHALL BE PROPERLY BACKFILLED AT THE END OF EACH WORK DAY.
- ALL DISTURBED AREAS SHALL BE SEEDED (WITH A SEASONAL MIX) AND COVERED WITH STRAW AT THE END OF EACH WEEK (AT A MINIMUM) OR MORE FREQUENTLY, AS CONDITIONS DICTATE, IN ADDITION TO EROSION CONTROLS REFERENCED ON PLANS.
- 4. ALL DISTURBED LAWN AREAS SHALL BE SODDED. MATCH EXISTING SOD TYPE. CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES, AND
- PUBLIC/PRIVATE INFRASTRUCTURE AND PROPERTY.

REVISION]
ITEM DESCRIPTION OF APPROVAL NO. CHANGE DATE W.M.	
C- 4545 TERED ENGINERS	SHEET 1 OF 1 2
AGRICULTURE	DIVISION OF ENGINEERING
A the week of the second secon	EXISTING CONDITIONS & DEMOLITION PLAN
OF TEN OF TEN	4884 S. Third Street (Highway 61)
	MEMPHIS, TENNESSEE
07/30/2021	SURVEY:PFIDATE:JUNE, 2020PROJECT NO.:24699.05DESIGN BY:PFIDATE:AUG, 2020BOOK:1676DRAWN BY:PFIDATE:AUG, 2020SCALE:1" = 20'
LIFT STATION REHAB DESIGN DEVELOPER: SARP10 ENGINEER: PICKERING FIRM, INC.	REVIEWED

DEVELOPER: ENGINEER:

SEE SHEET 7 FOR EROSION CONTROL DETAILS.

1 INCH = 10 FEET

VICINITY MAP (NTS)

LEGEND				
	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND ELECTRIC	
	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC	
• -	EXISTING GUY POLE	UFO	EXISTING UNDERGROUND FIBER OPTIC	
MB	EXISTING MAILBOX	GG	EXISTING UNDERGROUND GAS LINE	
<u> </u>	EXISTING SIGN	ww	EXISTING WATER LINE	
GV	EXISTING GAS VALVE	D	EXISTING DRAIN LINE	
WV M	EXISTING WATER VALVE	UT UT UT	EXISTING TELEPHONE LINE	
GV	EXISTING WATER METER	OIL	EXISTING UNDERGROUND OIL LINE	
$\overline{\cdot}$	EXISTING ROW MARKER	FM	FORCE MAIN	
E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER	
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE	

FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS IN A "ZONE X" NO SHADING (AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0415F WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2007. NEAREST BASE FLOOD ELEVATION = 238.

NOTE:

BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND VERIFY FORCE MAIN ROUTING AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCE BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

SEWER BASIN: NS-02
SHEET 1 OF 1 4
DIVISION OF ENGINEERING
SEWER PLAN
4884 S. Third Street (Highway 61)
MEMPHIS. TENNESSEE
SURVEY: PEI DATE: JUNE 2020 PROJECT NO.: 24699.05
DESIGN BY: PFI DATE: AUG. 2020 BOOK: 1676
DRAWN BY: PFI DATE: AUG, 2020 SCALE: 1" = 10'
REVIEWED

PUMP 1 RUN

• 13,20,38

🔶 PUMP 2 RUN

<u>18</u>,19,38

FLOOD LIGHT

FUSEREPLACEMENTFUSEREPLACEMENTF1KTK-R-5 /600V

-12 GAUGE HALF SLOTTED

DIM B	DIM G	DIM H	DIM J	DIM K
5 3/4"	2'-9 1/2"	4'-1/2"	6'-4"	1'-2 1/2"

DEVELOPER: SARP10

LIFT STATION REHAB DESIGN ENGINEER: PICKERING FIRM, INC.

SURVEY: PFI DESIGN BY: PFI DRAWN BY: PFI

DATE: AUG, 2020 BOOK: DATE: AUG, 2020 SCALE: REVIEWED

1676

N.T.S

6

JULY, 2021 CONSTRUCTION PLANS REVISED JANUARY, 2022

LIFT STATION REHAB DESIGN SARP10

5175 JONETTA STREET

	SCHEDULE OF DRAWINGS
SH.	TITLE
1	COVER
2	EXISTING CONDITIONS & DEMOLITION PLAN
3	PUMP STATION SITE AND FORCE MAIN ROUTING
4	SEWER PLAN
5	PUMP DETAILS
6	PUMP STATION DETAILS
7	DETAILS

N.T.S.

Pickering Firm, Inc. Facility Design • Civil Engineering • Surveying • Transportation • Natural / Water Resources 6363 Poplar Avenue, Suite 300 Memphis, TN 38119 901.726.0810

LEGEND				
	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND ELECTRIC	
<u> </u>	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC	
• -	EXISTING GUY POLE	UF0	EXISTING UNDERGROUND FIBER OPTIC	
MB	EXISTING MAILBOX	GG	EXISTING UNDERGROUND GAS LINE	
<u> </u>	EXISTING SIGN	ww	EXISTING WATER LINE	
GV	EXISTING GAS VALVE	D	EXISTING DRAIN LINE	
WV N	EXISTING WATER VALVE	UT UT UT	EXISTING TELEPHONE LINE	
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·	EXISTING ROW MARKER	FM	FORCE MAIN	
E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER	
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE	

CITY OF MEMPHIS SANITARY SEWER CONSTRUCTION NOTES

- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND 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 THE CONSTRUCTION PERIMETERS. THE SITE LOCATION FOR EXISTING UTILITIES INVOLVING MLG&W, SOUTH CENTRAL BELL, TEXAS GAS COMPANY, AND/OR SEWER LOCATION CALL 811.
- 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.
- CONTRACTOR SHALL NOTIFY THE SARP10 CONSTRUCTION MANAGER A MINIMUM OF 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED TO PREVENT EROSION.
- 6. THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO
- 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 FINISHED GRADE.
- ALL SANITARY SEWER, INCLUDING SEWER 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. THEY 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 THE 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 THE SEWER SYSTEM.
- 13. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO THE EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.
- 1. AT ALL CROSSINGS OF EXISTING UTILITIES, THE CONTRACTOR SHALL FIELD LOCATE BY POST HOLING OR OTHER APPROPRIATE METHODS, THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING
- 2. ALL SEWER TRENCHES SHALL BE PROPERLY BACKFILLED AT THE END OF EACH WORK DAY.
- ALL DISTURBED AREAS SHALL BE SEEDED (WITH A SEASONAL MIX) AND COVERED WITH STRAW AT THE END OF EACH WEEK (AT A MINIMUM) OR MORE FREQUENTLY, AS CONDITIONS DICTATE, IN ADDITION TO EROSION CONTROLS REFERENCED ON PLANS.
- ALL DISTURBED LAWN AREAS SHALL BE SODDED. MATCH EXISTING SOD TYPE.
- 5. CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES, AND PUBLIC/PRIVATE INFRASTRUCTURE AND PROPERTY.

PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER:

INFORMATION REGARDING THE REPUTED PRESENCE. SIZE. CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES NOT SHOWN MAY BE ENCOUNTERED THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE ENGINEER IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION REGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS IN A "ZONE X" NO SHADING (AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0415F WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2007. NEAREST BASE FLOOD ELEVATION = 249.

#1668 IS LOCATED AT HOLMES ROAD AND JONETTA DRIVE CITY CAP IS LOCATED ON THE NORTHEAST CORNER, TOP OF CURB ON THE NORTH SIDE OF HOLMES ROAD, 70' EAST OF THE CENTERLINE OF JONETTA DRIVE, 27.4 NORTH OF CENTERLINE OF HOLMES ROAD @ ADDRESS 312 GPS 734

FFE INSIDE BRICK BUILDING AS SHOWN

NOTE: BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SITE DATUM WITH ALL SITE TBMS AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE

ITEM NO.	DESC
1	GENE
LIFT	STA

LEGEND SILT FENCE BARRIER — SF · STRAW WATTLE

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7

CURB INLET PROTECTION \mathbf{X}

NORTH 10 1 INCH = 10 FEET

"H" NON-CLOG SUBMER. PUMPS	20 HP
3≈ ADAPTIVE 463 230 VAC, 3-PHAS 435 GPM, 85' TDH	E

PUMPING STATION DATA (DRYWELL

LIFT STAT DEVELOPER: S ENGINEER:

WETWELL AND VALVE VAULT TOP PLAN NOT TO SCALE

LIFT STATION REPLCAEMENT NOTES:

- ALL PIPES TO BE D.I.P.
- CLEAN AND COAT WETWELL WITH A 2-COAT EPOXY-MODIFIED-MORTAR LINING AND HYBRID EPOXY COATING PER MANUFACTURES RECOMMENDATIONS. COVER EXPOSED REBAR WITH COMPATIBLE PRIMER AND MORTAR AND SEAL ANY LEAKS WITH HYDRAULIC CEMENT.

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	REVISION							
NO.	DESCRIPTION OF CHANGE	APPROVAL DATF	None W here					
1	GENERAL REVISIONS	01/28/2022	E PER RACE					
			V SUISTEMAN ANGULES THE		SHEET	1 OF 1		6
			AGRICULTURE		DIVISION OF	ENGINEER	RING	
			A the MARKEN AND A THE AND	P	UMP STAT	ION DI	ETAILS	
			OF TENNE		5175 Jon	etta Stre	et -	
			07/30/2021	SURVEY: PF	DATE: JU	NE, 2020	- PROJECT NO.	: 24699.05
IFT	STATION REP		GN	DESIGN BY: PF DRAWN BY: PF	I DATE: AU I DATE: AU	G, 2020 G, 2020	BOOK: SCALE:	1676 N.T.S.
EVELO NGINE	PER: SARP10 ER: PICKERING FIRI	M, INC.			REV	IEWED		

JULY, 2021 CONSTRUCTION PLANS

LIFT STATION REHAB DESIGN SARP10

5730 SARANAC AVENUE

	SCHEDULE OF DRAWINGS	\mathbf{i}
SH.	TITLE	
1	COVER	
2	EXISTING CONDITIONS & DEMOLITION PLAN	
3	PUMP STATION SITE AND FORCE MAIN ROUTING	
4	SEWER PLAN	
5	PUMP DETAILS	
6	PUMP STATION DETAILS	
7	DETAILS	

VICINITY MAP

N.T.S.

Pickering Firm, Inc. Facility Design • Civil Engineering • Surveying • Transportation • Natural / Water Resources 6363 Poplar Avenue, Suite 300 Memphis, TN 38119 901.726.0810

NOTE:

NOTE:

<u>DEN</u>	IOLITION NOTES:
1.	THE CONTRACTOR SHALL REMOVE ALL UNDERGROUND UTILITIES AND ANY OTHER ITEMS IN ACCORDANCE WITH THE TDEC AND THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL STRICTLY FOLLOW ALL CITY, STATE, AND FEDERAL GUIDELINES FOR REMOVAL AND DISPOSAL OF THESE FACILITIES.
2.	ALL BUILDING, CONCRETE, ASPHALT PAVEMENT, AND GRANULAR SUBBASE SHALL BE REMOVED FULL DEPTH PER THE DIRECTION OF THE GEOTECHNICAL ENGINEER. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL CITY, STATE AND FEDERAL REGULATIONS.
3.	CONTRACTOR SHALL REMOVE & REPAIR PAVEMENT AS REQUIRED FOR UTILITY CONSTRUCTION INCLUDING BUT NOT LIMITED TO: IRRIGATION SLEEVES, SITE LIGHTING CONDUITS, WATER LINES, SANITARY SEWER LINES, STORM DRAINAGE LINES, ETC. CONTRACTOR HAS OPTION TO BORE CONDUITS.
4.	PRIOR TO COMMENCING ANY UTILITY WORK, CONTRACTOR SHALL NOTIFY ANY SURROUNDING PROPERTY OWNERS WHO MAY EXPERIENCE A DISRUPTION IN SERVICE.
5.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING ANY EXISTING IRRIGATION SYSTEM TO ACCOMMODATE PARTS OF THAT EXISTING SYSTEM THAT ARE REMOVED, ABANDONED OR DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO MODIFY ANY EXISTING IRRIGATION SYSTEM TO ACCOMMODATE NEW AREAS OF LANDSCAPING. ANY IRRIGATION SLEEVES SHALL BE INSTALLED PRIOR TO PAVING AND BACKFILLED PROPERLY BY THE SITE CONTRACTOR.
6.	THE CONTRACTOR SHALL ENSURE ADEQUATE ACCESS IS PROVIDED DURING ALL PHASES OF CONSTRUCTION. COORDINATE WITH THE PROJECT MANAGER.
7.	WHEN REMOVING UTILITIES, CONTRACTOR SHALL GROUT AND SEAL ANY STRUCTURES THAT ARE TO REMAIN PER LOCAL REGULATIONS.
8.	UTILITIES SHOWN ARE LOCATED BY FIELD SURVEY AND RECORD DRAWINGS. ADDITIONAL UNDERGROUND UTILITIES WILL BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY INACTIVE STRUCTURES & ALERT THE ENGINEER OF ANY ACTIVE, UNMAPPED STRUCTURES.
9.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF UTILITY DEMOLITION & RELOCATION.
10.	CONTRACTOR SHALL NOT INTERRUPT DRAINAGE FROM ADJACENT PROPERTIES AND PUBLIC RIGHT-OF-WAYS.

LIFT	STATION	R
ITEM NO.	DESCRIPTION CHANGE	C
	ILL VIJI	

DEVELOPER: SARP10

	LEGEN	<u>ID</u>	
The second secon	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND ELECTRIC
	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC
Đ-	EXISTING GUY POLE	UFO	EXISTING UNDERGROUND FIBER OPTIC
MB	EXISTING MAILBOX	GG	EXISTING UNDERGROUND GAS LINE
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E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE

FLOOD NOTE:

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REVIEWED

ATION REHAB DESIGN ENGINEER: PICKERING FIRM, INC.

REVISION

			CR610 G INSID
	CONSTRUCTION NOTES: 1. WET WELL AND PUMPS TO REMAIN. CONTRACTOR TO REPL VALVES, APPURTENANCES, CONTROLS, WIRING, CONDUITS TO PUMP STATION. CONTRACTOR TO REMOVE ACCUMULATED EXISTING WET WELL, AND INSTALL NEW COATING. 2. INSTALL NEW BY-PASS. 3. RAISE EXISTING PHASE CONVERTER 18" ABOVE FINISHED GET	ACE ALL PIPING, REBUILD EXISTING GREASE, CLEAN	NEW SERVICE POLE & F 6' High 5' Wie
	CONCRETE PEDESTAL AND INSTALL NEWER WATER PROOF C 4. INSTALL NEW SINGLE PHASE 240-VOLT 60 AMP SERVICE W DISCONNECT WITH GENERATOR RECEPTACLE. LOT 284	COVER. /ITH DOUBLE THROW	LOT
	- T		
ER 1. 2. 3.	OSION AND SEDIMENTATION CONTROL NOTES: ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION. SILT FENCES AND OTHER BEST MANAGEMENT PRACTICES SHALL BE USED AS SHOWN AND AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES AND OTHER BEST MANAGEMENT PRACTICES WHERE NECESSARY TO PREVENT DOMINISTREAM SULTATION OF ANY DITCHER DIPES DRAMAGE STRUCTURES OF ADJACENT DROPEDED	CITY OF MEMPH 1. THE LOCATION SAME. THE CON TO DETERMINE THE INITIATION DAMAGE TO AN FOR EXISTING U SEWER LOCATION	IS SANITARY SEWER CO OF EXISTING UNDERGROUND NTRACTOR SHALL BE RESPO THE EXACT LOCATION OF A OF ANY CONSTRUCTION. CO IY UTILITIES ENCOUNTERED JTILITIES INVOLVING MLG&W, ON CALL 811.
4. 5. 6.	CONTROLS SHOWN ON THE PLAN ARE THE MINIMUM REQUIRED AND THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NECESSARY OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE TDEC STORM WATER CONSTRUCTION GENERAL PERMIT FOR ALL EROSION CONTROL DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REPORTING ANY MAINTENANCE AS REQUIRED BY THE TDEC STORM WATER CONSTRUCTION GENERAL PERMIT DURING CONSTRUCTION ACTIVITIES. PROVISIONS SHALL BE MADE TO PROTECT DOWNSTREAM WATERCOURSES (I.E., STORM SEWER SYSTEMS, DITCHES, WETLANDS, ETC.) FROM SEDIMENT RUNOFF DEVELOPED FROM THE CONSTRUCTION PROCESS. PROVISIONS INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL CONTROLS SUCH AS SILT FENCING, GEOTEXTILE FABRIC PROTECTION OF STORM SEWERS, HAY BALES, DIKES AND SANDBAG BERMS; AND/OR VEGETATION	 CONTRACTOR CONNECTION CONTRACTOR 	R SHALL ENSURE UNINTERRUS BY PROVIDING AMPLE TEN S BY PROVIDING AMPLE TEN SHALL MAINTAIN ACCESS SHALL NOTIFY THE SARP1 INNING OF CONSTRUCTION. IN CUT OR FILL WHERE VEG AND/OR SODDED TO PREVE
7. 8. 9.	CONTROLS SUCH AS SEEDING OR EXISTING VEGETATIVE BUFFER STRIPS (MINIMUM 25 FEET WIDE). PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON PLANS. CONTRACTOR SHALL PERFORM STREET CLEANING ON ROADS AND STREETS ADJACENT TO THE PROJECT WHICH ARE USED AS ACCESS ROUTES FOR CONSTRUCTION TRAFFIC IF NECESSARY. WASHING OF STREETS IS PROHIBITED. LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. USE A MINIMUM 60 MIL POLYETHYLENE LINER UNDER ABOVE GROUND STORAGE TANKS. USE 2 FOOT HIGH BERMS AROUND	THE ENGINER 7. ALL SANITAR SPECIFICATIO STANDARD S 8. ALL SEWER IN BACKYAR 9. ALL SANITAR	ER. RY SEWER TO BE CONSTRUC ONS. SANITARY SEWER SERV SST—16. MANHOLE LIDS IN OPEN ARI DS, MANHOLE LIDS ARE TO RY SEWER, INCLUDING SEWER
10. 11. 12.	 FUEL STORAGE AREAS. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL ENVIRONMENTAL LAWS. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF FUELS, MATERIALS AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER. AT A MINIMUM, STRUCTURAL CONTROLS SHOULD BE INSPECTED TWICE EVERY CALENDAR WEEK AT LEAST 72 HOURS APART. THE INSPECTOR, APPROVED BY THE OWNER, SHALL HAVE AN ACTIVE CERTIFICATION BY COMPLETING THE "FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL LEVEL I" COURSE. A COPY OF THE CERTIFICATION SHALL BE KEPT ONSITE, SHOULD CONTROLS BECOME INEFFECTIVE, NECESSARY 	(OUTSIDE OF ENCASED, 10 POLYETHYLE 10. THEY CITY O FOR THE PU FOR THE MA 11. NO TREES, S BF ALLOWED	PIPES) WITH DRAINAGE OR O' MINIMUM BOTH SIDES OF NE LINED OR SHALL BE TRE OF MEMPHIS SHALL HAVE IN IRPOSE OF MAINTAINING ALL INTENANCE OF SAID PRIVAT SHRUBS, PERMANENT STRUC WITHIN THE SANITARY SFM
13.	REPAIRS SHALL BE PERFORMED TO RETURN THE INTEGRITY OF THE STRUCTURAL CONTROLS. EQUIPMENT STAGING AREA TO BE DESIGNATED BY CONTRACTOR AND APPROVED BY OWNER PRIOR TO CONSTRUCTION.	OCCUPY SAN 12. ALL SANITAR	NITARY SEWER EASEMENTS I

- 14. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM FACE OF THE SILT FENCE WHEN IT REACHES A MAXIMUM DEPTH OF 50% OF THE FENCE'S CAPACITY. THE FENCE WILL BE REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
- 15. TEMPORARY SEEDING MAY BE REQUIRED IN ADDITION TO PERMANENT SEEDING TO ASSIST IN COMPLYING WITH THE CONSTRUCTION GENERAL PERMIT.
- INFLOW INTO THE SEWER SYSTEM.

	REVISION					
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE	Notor W. M.			
			FRED ENGL		SEWER BASIN: WI	1 –5
			V SUST XV		SHEET 1 OF	1 4
			AGRICULTURE		DIVISION OF ENGINE	ERING
			A BANKER BUNNEROF		SEWER PLA	N
			OF TENNER		5730 Saranac Ave	enue
					MEMPHIS, TENNESS	EE
			07/30/2021	SURVEY: PFI	DATE: JUNE, 2020	PROJECT NO.: 24699.05
				DESIGN BY: PFI	DATE: AUG, 2020	BOOK: 1688
LIET	STATION DEL			DRAWN BY: PFI	DATE: AUG, 2020	SCALE: $1'' = 20'$
	PER: SARP10				REVIEWED	
IENGINE	er: Pickering fir	M, INC.				

VICINITY MAP (NTS)

	LEGEN	<u>ID</u>	
THE AND A DECEMBER OF A DECEMB	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND ELECTRIC
	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC
Đ-	EXISTING GUY POLE	UFO	EXISTING UNDERGROUND FIBER OPTIC
MB	EXISTING MAILBOX	GG	EXISTING UNDERGROUND GAS LINE
	EXISTING SIGN	ww	EXISTING WATER LINE
GV	EXISTING GAS VALVE	D	EXISTING DRAIN LINE
WV N	EXISTING WATER VALVE	UT UT UT	EXISTING TELEPHONE LINE
GV	EXISTING WATER METER	OIL	EXISTING UNDERGROUND OIL LINE
·	EXISTING ROW MARKER	FM	FORCE MAIN
E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE

FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS IN A "ZONE X" NO SHADING (AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0301G WITH AN EFFECTIVE DATE OF FEBRUARY 6, 2013. NEAREST BASE FLOOD ELEVATION = 254.

NOTE:

BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND VERIFY FORCE MAIN ROUTING AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCE BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

ITEM NO.	DESC
	1

DIM B	DIM G	DIM H	DIM J	DIM K
5 3/4"	2'-9 1/2"	4'-1/2"	6'-4"	1'-2 1/2"

- FOR REFERENCE PUMPS: 5HP @ 1200 RPM 100 GPM TDH = 44 FT 4" CIP FORCE MAIN @ 915 LF

ATION REHAB DESIGN DEVELOPER: SARP10 ENGINEER: PICKERING FIRM, INC.

SURVEY: PFI DESIGN BY: PFI DRAWN BY: PFI

DATE: AUG, 2020 BOOK: DATE: AUG, 2020 SCALE:

1688 N.T.S.

6

REVIEWED

