

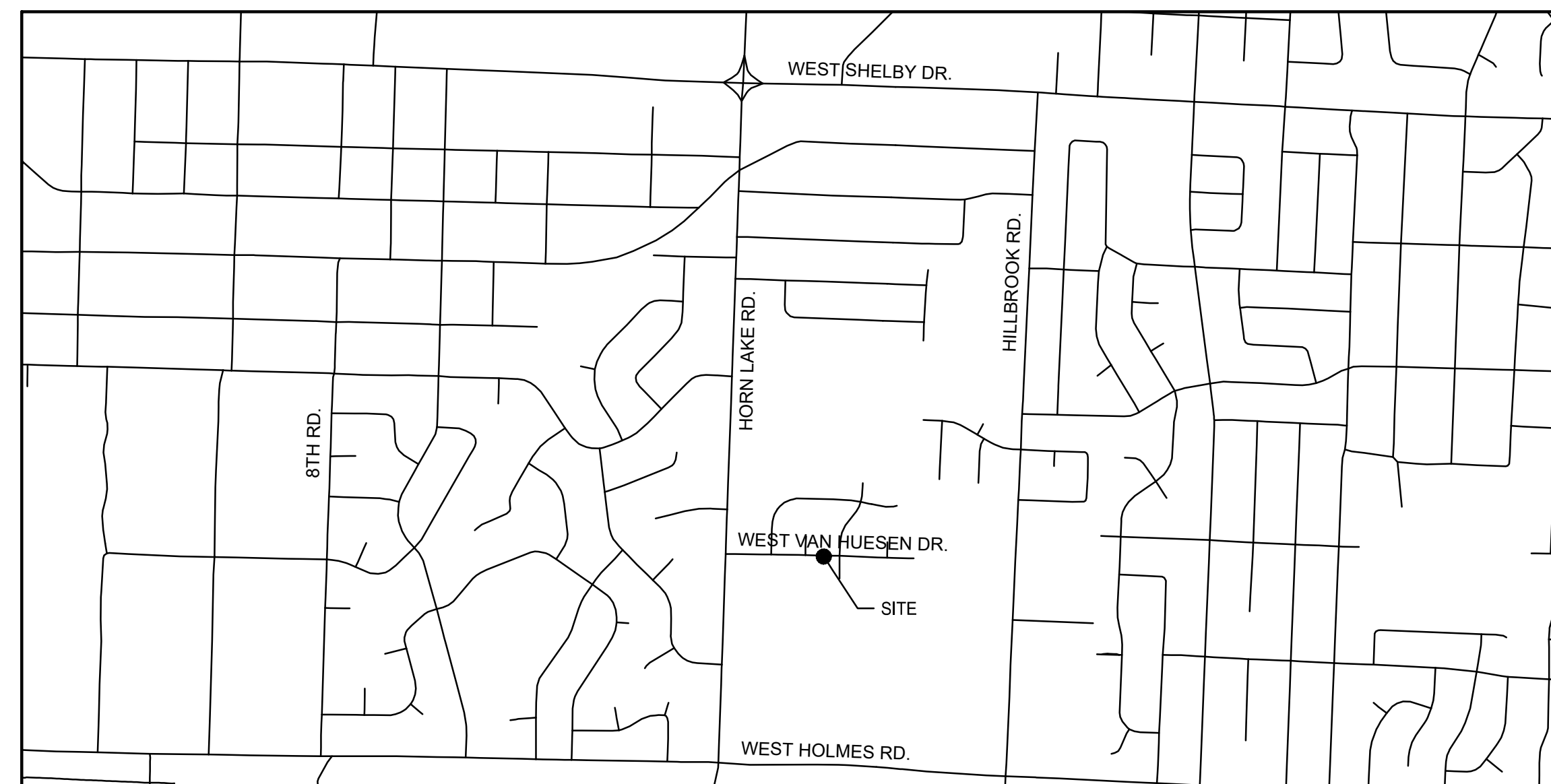
LIFT STATION IMPROVEMENTS

For

47 WEST VAN HUESEN

SEWER ASSESSMENT & REHABILITATION PROGRAM (SARP 10)
CITY OF MEMPHIS, TN

CONSTRUCTION DRAWINGS
AUGUST 5, 2024



VICINITY MAP
SCALE: 1" = 1000'

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\\memphis\cadd\2024\08\05\117\2024\Civil\Proj\Drawings\West Van Huesen Project\G00 - COVER.dwg
DATE: 08/05/2024 4:38pm
PLOT SCALE: 1" = 1000'

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING.

SANITARY SEWER NOTES:

1. LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR LOCATION OF EXISTING UTILITIES INVOLVING MLG&W, SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-529-8025.
2. CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND /OR BYPASSING.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
4. CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT 636-2462 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND /OR SODDED AS REQUIRED TO PREVENT EROSION.
6. THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
7. ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS STANDARDS CONSTRUCTION SPECIFICATIONS. SANITARY SEWER CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
8. ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE; IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.
9. ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5 CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
10. THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE 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 DRIVE AND YARDS EXCEPT FOR CROSSINGS.
12. ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR "PICK HOLES" TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
13. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SITUATION INTO EXISTING DRAINAGE SYSTEM AND /OR ADJACENT PROPERTIES.
14. THE CONTRACTOR SHALL MAINTAIN SAFE INGRESS AND EGRESS FOR ADJACENT PROPERTIES DURING CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN A SUCH MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
15. THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT TO CLEAN, STRAIGHT LINE PARALLEL AND PERPENDICULAR TO THE FLOW OF TRAFFIC.
16. THE CONTRACTOR SHALL REPAIR FULL LANE WIDTH. CONSTRUCTION PATCHES WITH ANGLED SIDES AND/OR IRREGULAR SHAPE SHALL BE AVOIDED.
17. THE CONTRACTOR SHALL BE RESPONSIBLE TO APPLY A TACK COAT TO ALL EDGES OF THE EXISTING ASPHALT BEFORE PLACING NEW PAVEMENT AND ALL JOINTS BETWEEN EXISTING AND NEW PAVEMENT SHALL BE SEALED WITH ASPHALT TACK COAT OR RUBBERIZED MATERIAL.

DEMOLITION 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 REMOVED FULL DEPTH PER THE DIRECTION OF THE GEOTECHNICAL ENGINEER. ALL SHALL BE DISPOSED 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 LIGHTNING CONDUITS, WATER LINES, SANITARY SEWER LINES, STORM DRAINAGE LINES, ETC. CONTRACTOR HAS AN 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 STRUCTURE & ALERT 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.
11. ALL PUMPS, MOTORS, ETC REMOVED SHALL BE RETURNED TO MEMPHIS WTCS DEPARTMENT. CONTACT JAMES GREENLEE @ 901-636-0237

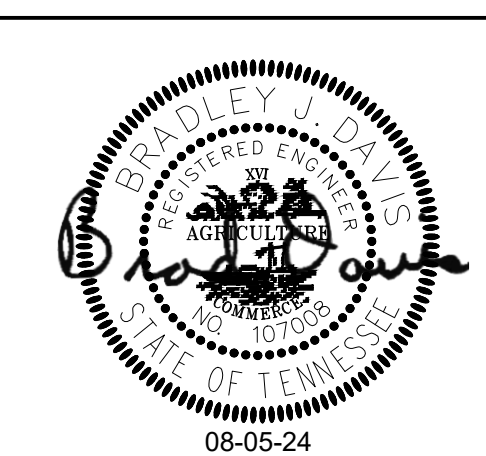
GENERAL NOTES:

1. AT ALL CROSSINGS OF EXISTING UTILITIES, THE CONTRACTOR SHALL FIELD LOCATE BY POST HOLING OR OTHER APPROPRIATE METHODS, THE HORIZONTAL AND VERTICAL LOCATION ALL EXISTING UTILITIES.
2. ALL SEWER TRENCHES SHALL BE PROPERLY BACKFIELD AT THE END OF EACH WORK DAY.
3. 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.
5. CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGES OF EXISTING UTILITIES, AND PUBLIC/PRIVATE INFRASTRUCTURE AND PROPERTY.

EROSION CONTROL NOTES:

1. CONSTRUCTION ENTRANCES (TO THE OFFICE OR LAY DOWN AREA, AND TO WORK AREAS) TO BE A MINIMUM 6" DEPTH T.D.O.T. NO. 1 OR NO. 2 STONE.
2. INSTALL WATTLES OR SILT FENCE AS DICTATED ON THE EROSION CONTROL PLANS. SEE DETAILS FOR MORE INFORMATION.
3. ALL STOCK PILE AREAS TO BE PROTECTED BY A COMBINATION OF WATTLES AND SILT FENCE.
4. INSTALL INLET PROTECTION DEVICES AT STORM INLETS PRIOR TO CONSTRUCTION. SEE PLANS FOR LOCATIONS.
5. ALL NEWLY CUT OR FILL AREAS LACKING ADEQUATE VEGETATION SHALL BE FERTILIZED, MULCHED, SEEDED, AND /OR SODDED TO EFFECTIVELY CONTROL EROSION.
6. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT SITE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SOIL EROSION CONTROL MEASURES AS NOTED ON THE PLANS AND AS REQUESTED BY THE OWNER DURING THE CONSTRUCTION, AND AS NECESSARY TO PREVENT THE SEDIMENT FROM LEAVING THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING THE REQUIREMENTS OF THE STATE OF TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK. ALL SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONTRACT SO AS TO PREVENT ANY SEDIMENTATION FROM WASHING OFF THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHTS-OF-WAY. SEDIMENT FENCE SHALL BE INSTALLED AS DIRECTED. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL MAINTENANCE ACTIVITIES FOR THE EROSION ELEMENTS AS REQUIRED BY THE STATE OF TENNESSEE DEPARTMENT OF WATER POLLUTION CONTROL.
8. A COPY OF THE EROSION CONTROL PLAN MUST BE AVAILABLE ON SITE FOR THE DWPC INSPECTOR ON REQUEST.
9. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT MUST BE REPLACED AT THE END OF THE WORK DAY OR PRIOR TO RAINFALL EVENTS.
10. ALL CONTROL MEASURES SHALL BE CHECKED AND STATE REQUIREMENTS FOR MAINTENANCE AND REPAIRS SHALL BE MADE AS NECESSARY. DURING PROLONGED RAINFALL, DAILY CHECKING AND REPAIRING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF INSPECTION CHECKS, MAINTENANCE, AND REPAIRS.
11. THIS PLAN HAS BEEN REVIEWED AND APPEARS TO BE ADEQUATE. IF SEWER PIPE INSTALLATION BY BORE DOES NOT PROVIDE FOR EFFECTIVE SEDIMENT CONTROL AND EROSION PROTECTION, ADDITIONAL MEASURES WILL BE REQUIRED.
12. IF PUMPING IS REQUIRED, SEDIMENT LADEN WATER IS NOT TO BE DISCHARGED INTO THE STORM DRAIN OR THE STREET.

REVISIONS		
DATE	DESCRIPTIONS	APPROVED



47 WEST VAN HUESEN DR LIFT STATION
 DEVELOPER: SARP 10
 ENGINEER: ABES ENGINEERING

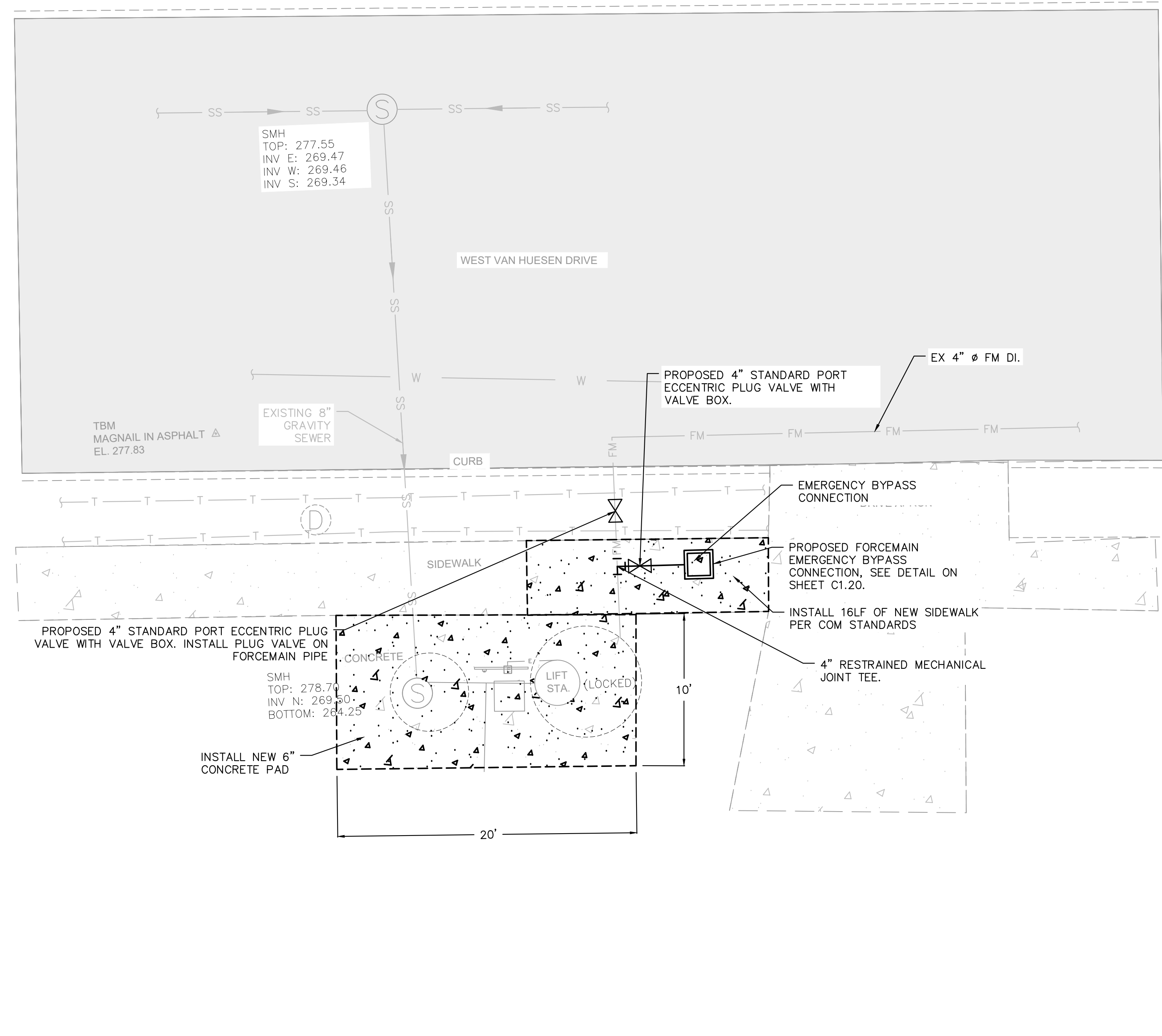
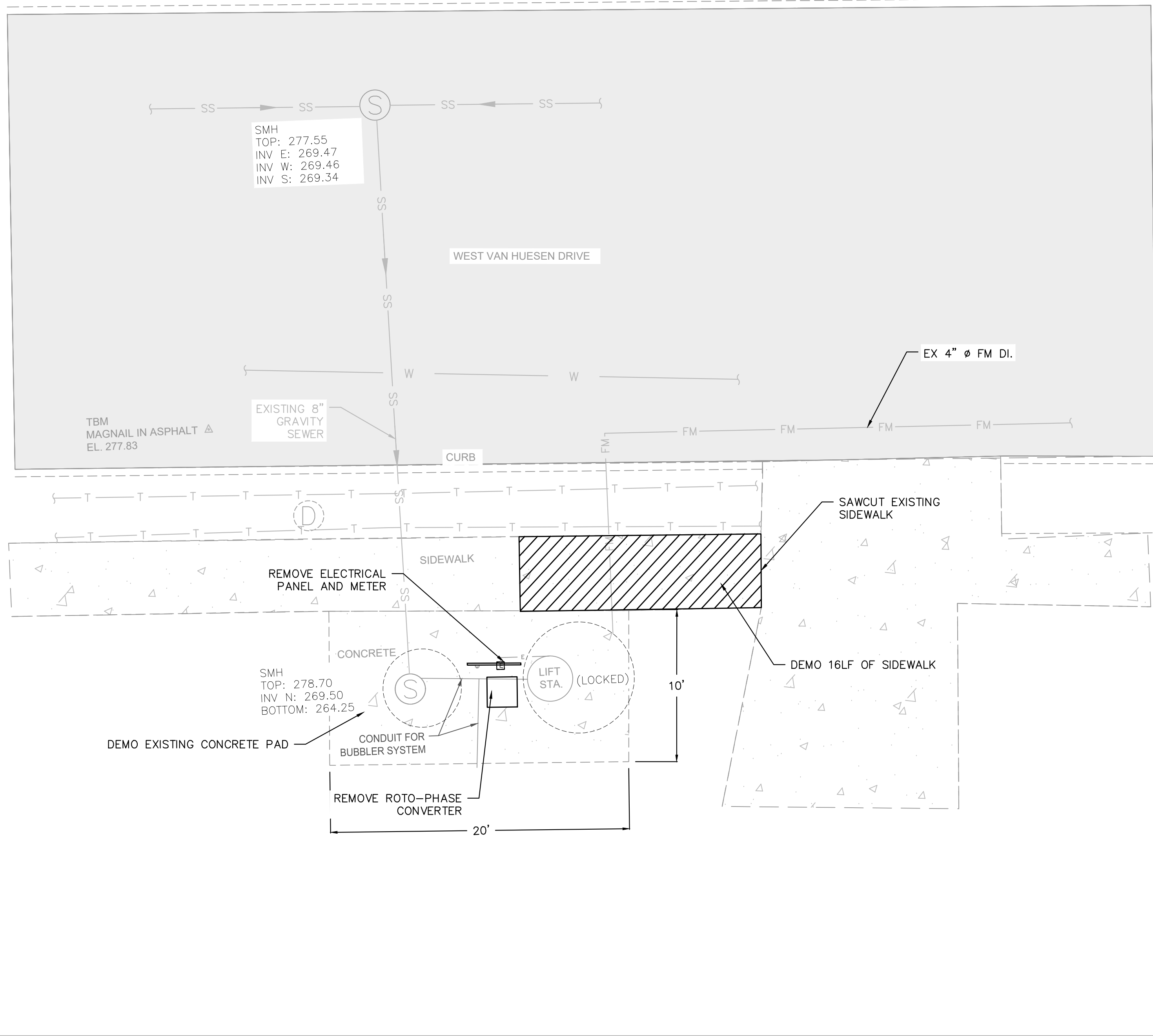
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SHEET 1 OF 1
 DIVISION OF ENGINEERING

GENERAL NOTES
 47 WEST VAN HUESEN DRIVE
 MEMPHIS, TENNESSEE

SURVEY BY: AZH, Inc. DATE: Aug-21 PROJECT NO: PN 290-21-001 47
 DESIGN BY: BRAD DAVIS, P.E. DATE: Sep-22 SCALE: NTS
 REVIEWED

DEPUTY CIVIL ENGINEER DATE CITY ENGINEER DATE



LEGEND

- EXISTING**
- E ——— ELECTRIC CONDUIT
- ⊙ SEWER MANHOLE
- △ CONTROL POINT
- FM ——— FORCE MAIN
- OHE ——— OVERHEAD ELECTRIC
- X — X — FENCE
- SS ——— SANITARY LINE
- ⊙ STORM MANHOLE
- W ——— WATER LINE
- T ——— TELEPHONE LINE
- CONCRETE
- ASPHALT
- PROPOSED**
- CONCRETE
- DEMOLITION**
- SAWCUT

EXISTING SITE PLAN

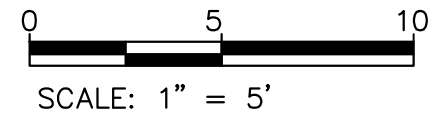
EXISTING FORCEMAIN:
CONTRACTOR TO LOCATE AND VERIFY EXISTING FORCE MAIN ROUTING AT START OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY ISSUES

SPECIAL FLOOD HAZARD STATEMENT:
THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS NOT IN A SPECIAL FLOOD HAZARD AREA (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE SUBJECT PROPERTY IS SHOWN IN A FEMA ZONE X (NO SHADING ON FEMA MAP); AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0415F WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2007.

PROJECT BENCHMARKS
CITY BENCHMARK:
BM #330 HORN LAKE RD. & HOLMES RD.
CITY MONUMENT IS LOCATED ON THE NW COR., AT B/CURB ER ON HORN LAKE SIDE, AT S. END OF 6-72 INLET.
268.72

SITE TBM:
MAGNAIL — SEE PLAN ABOVE

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.

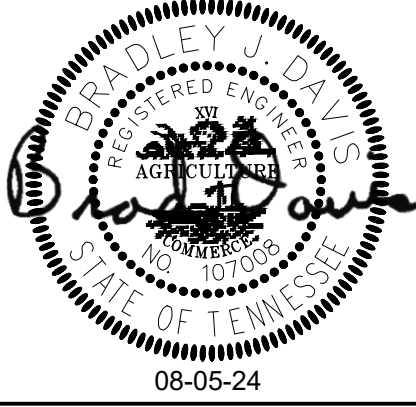


PROPOSED SITE PLAN

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 EVIDENCED 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.

REVISIONS		
DATE	DESCRIPTIONS	APPROVED



47 WEST VAN HUESEN DR LIFT STATION
DEVELOPER: SARP 10
ENGINEER: ABES ENGINEERING

C1.00

SHEET 1 OF 3
DIVISION OF ENGINEERING

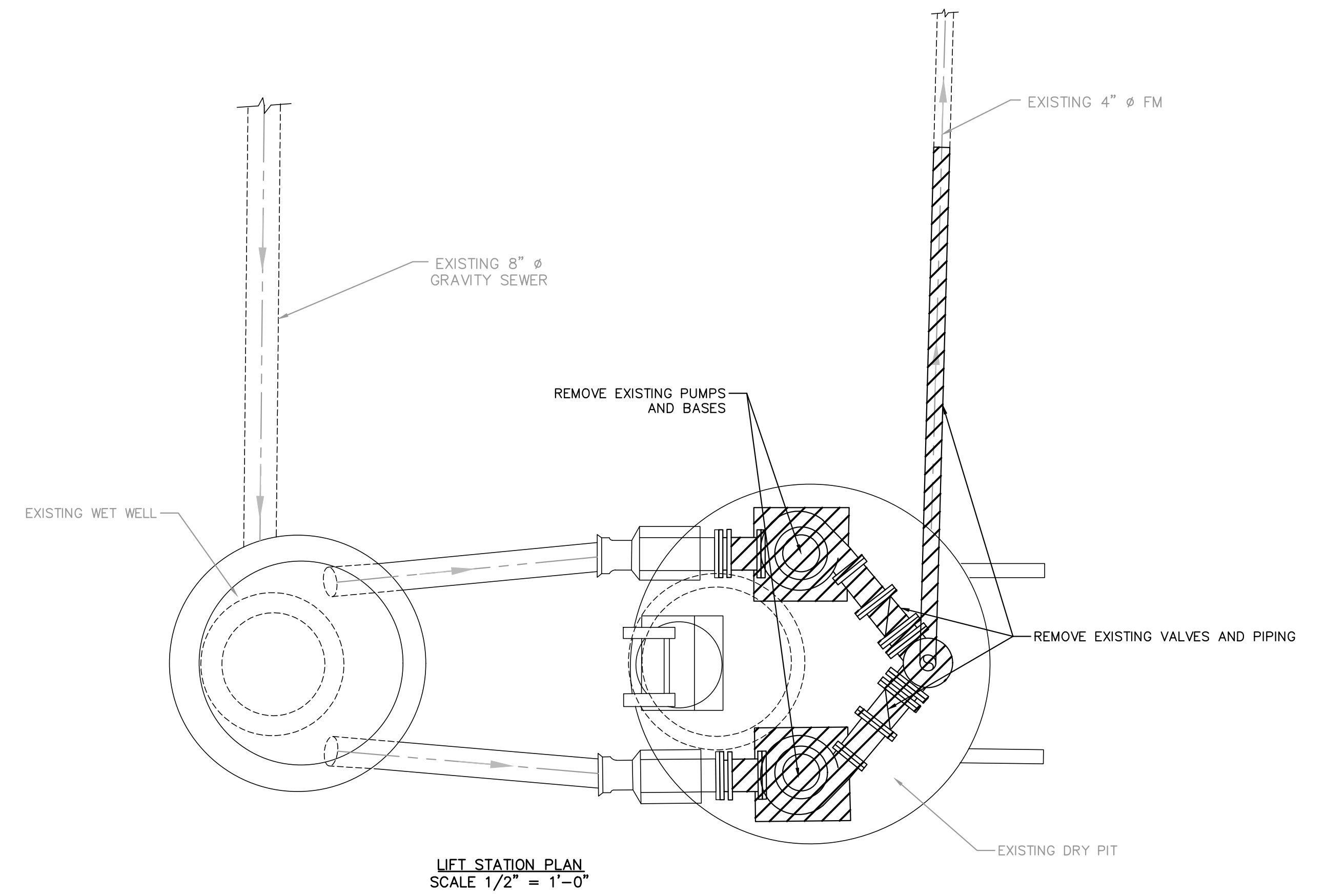
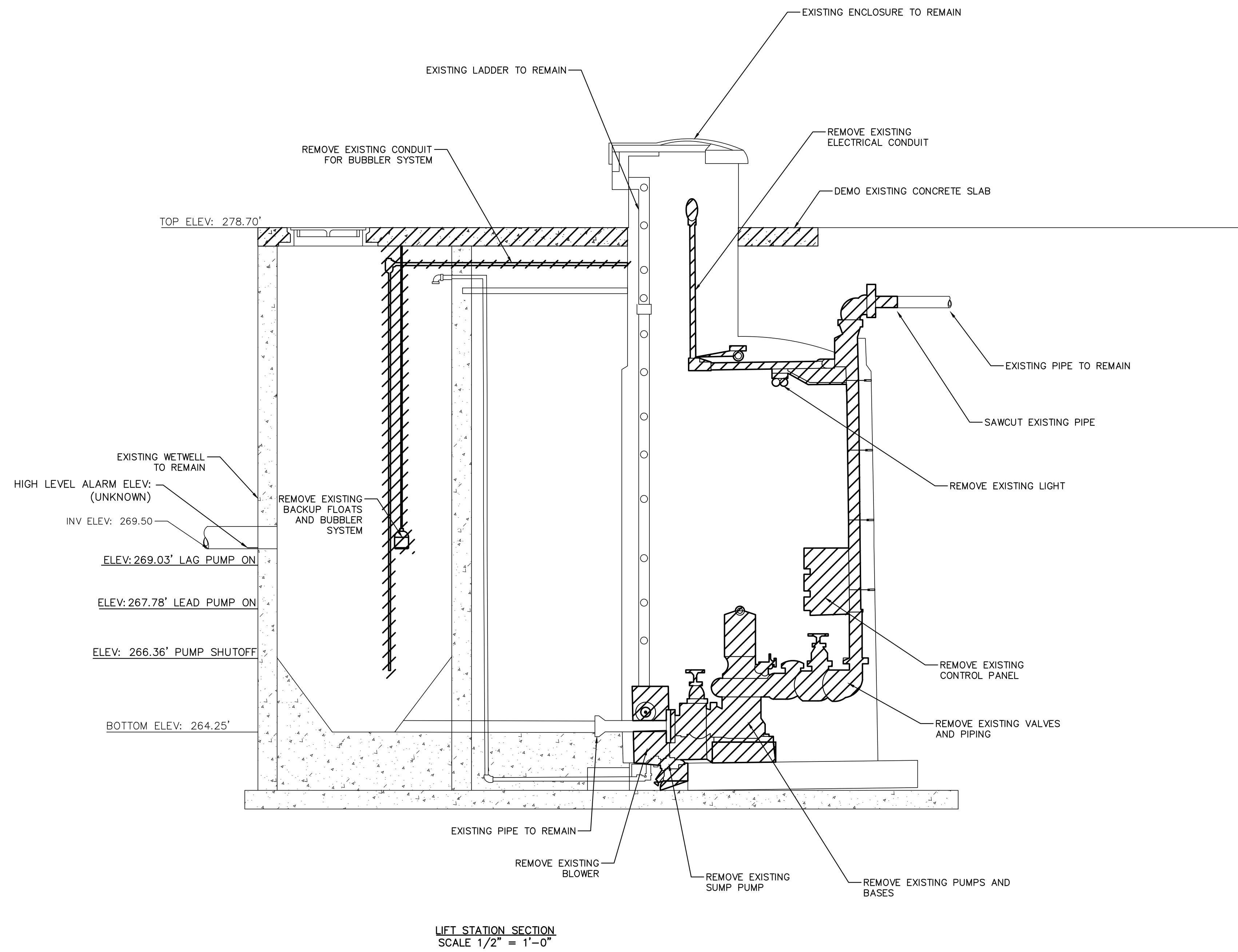
EXISTING AND PROPOSED SITE PLAN
47 WEST VAN HUESEN DRIVE
MEMPHIS, TENNESSEE

SURVEY BY: A2H, Inc. DATE: Aug-21 PROJECT NO: PN 290-21-001 47
DESIGN BY: BRAD DAVIS, P.E. DATE: Sep-22 SCALE: 1" = 5'
REVIEWED

DEPUTY CIVIL ENGINEER DATE CITY ENGINEER DATE

All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING.

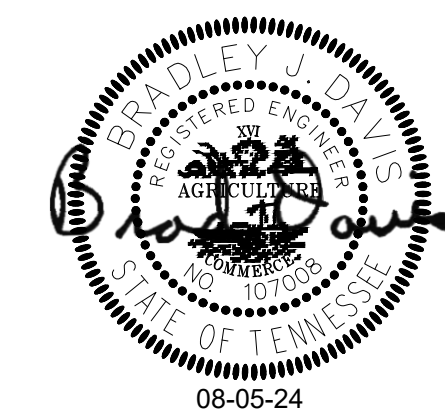
All inquiries regarding this drawing(s) shall be made to ABES ENGINEERING.



NOTES:

- EXISTING PUMP DATA COLLECTED FROM THE "FINAL ASSESSMENT REPORT FOR 47 WEST VAN HUESEN DRIVE – SARP10 LIFT STATION ASSESSMENT PROJECT FOR CITY OF MEMPHIS" DATED OCTOBER 15, 2018

REVISIONS		
DATE	DESCRIPTIONS	APPROVED



47 WEST VAN HUESEN DR LIFT STATION
DEVELOPER: SARP 10
ENGINEER: ABES ENGINEERING

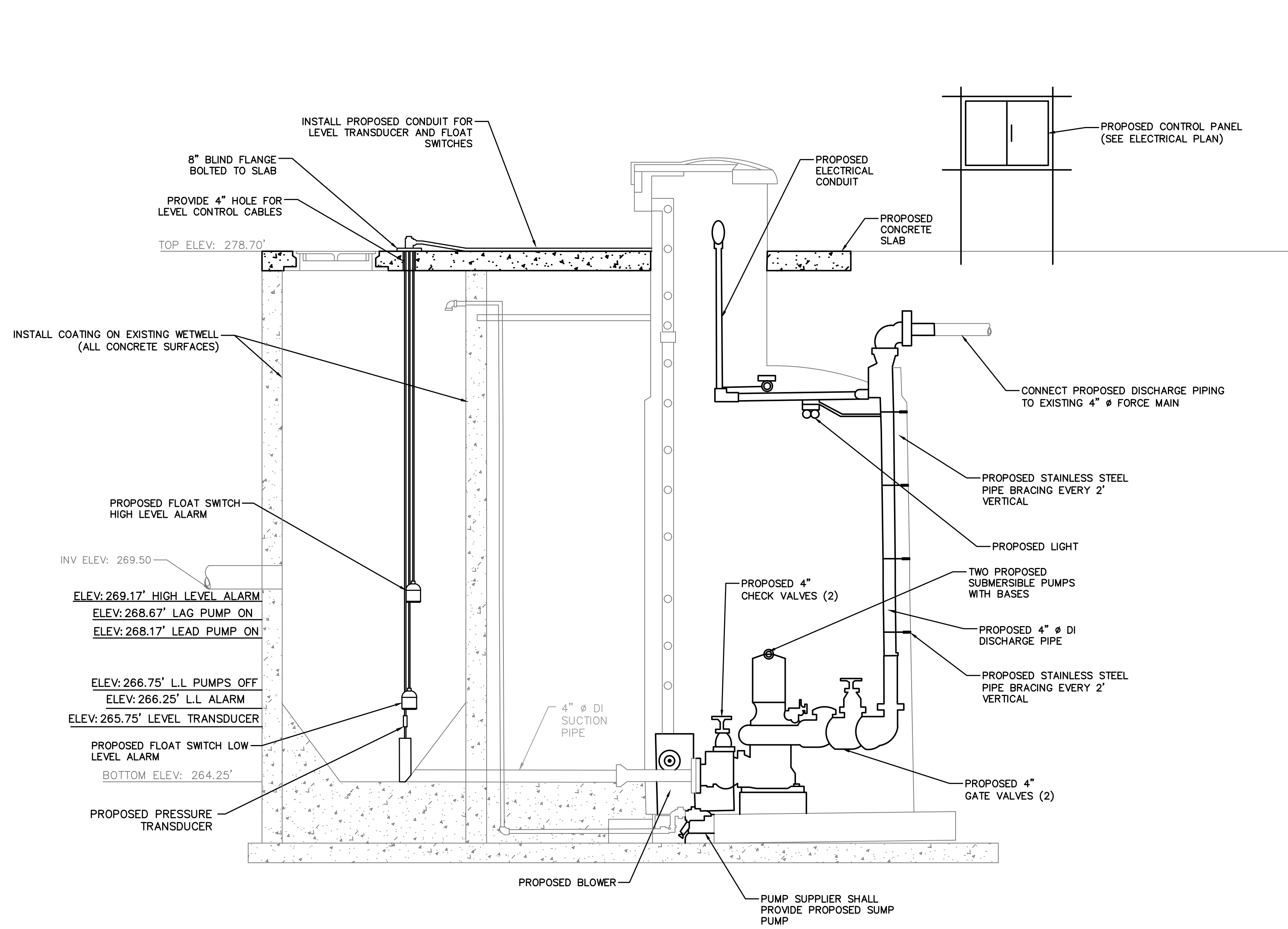
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SHEET 2 OF 3
DIVISION OF ENGINEERING

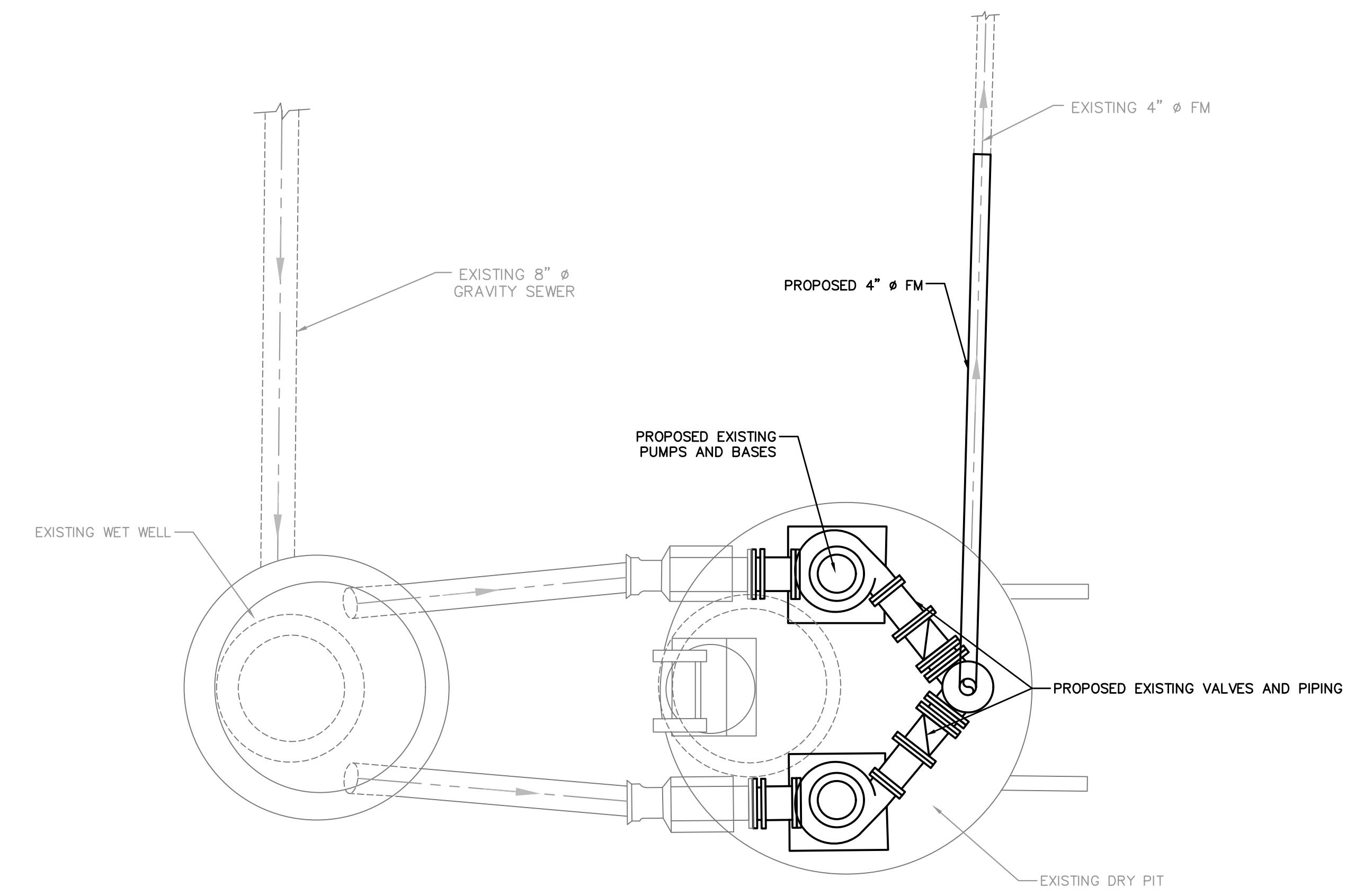
EXISTING LS DEMO PLAN AND SECTION
47 WEST VAN HUESEN DRIVE
MEMPHIS, TENNESSEE

SURVEY BY: AZH, Inc. DATE: Aug-21 PROJECT NO: PN 290-21-001 47
DESIGN BY: BRAD DAVIS, P.E. DATE: Sep-22 SCALE: 1" = 2'
REVIEWED

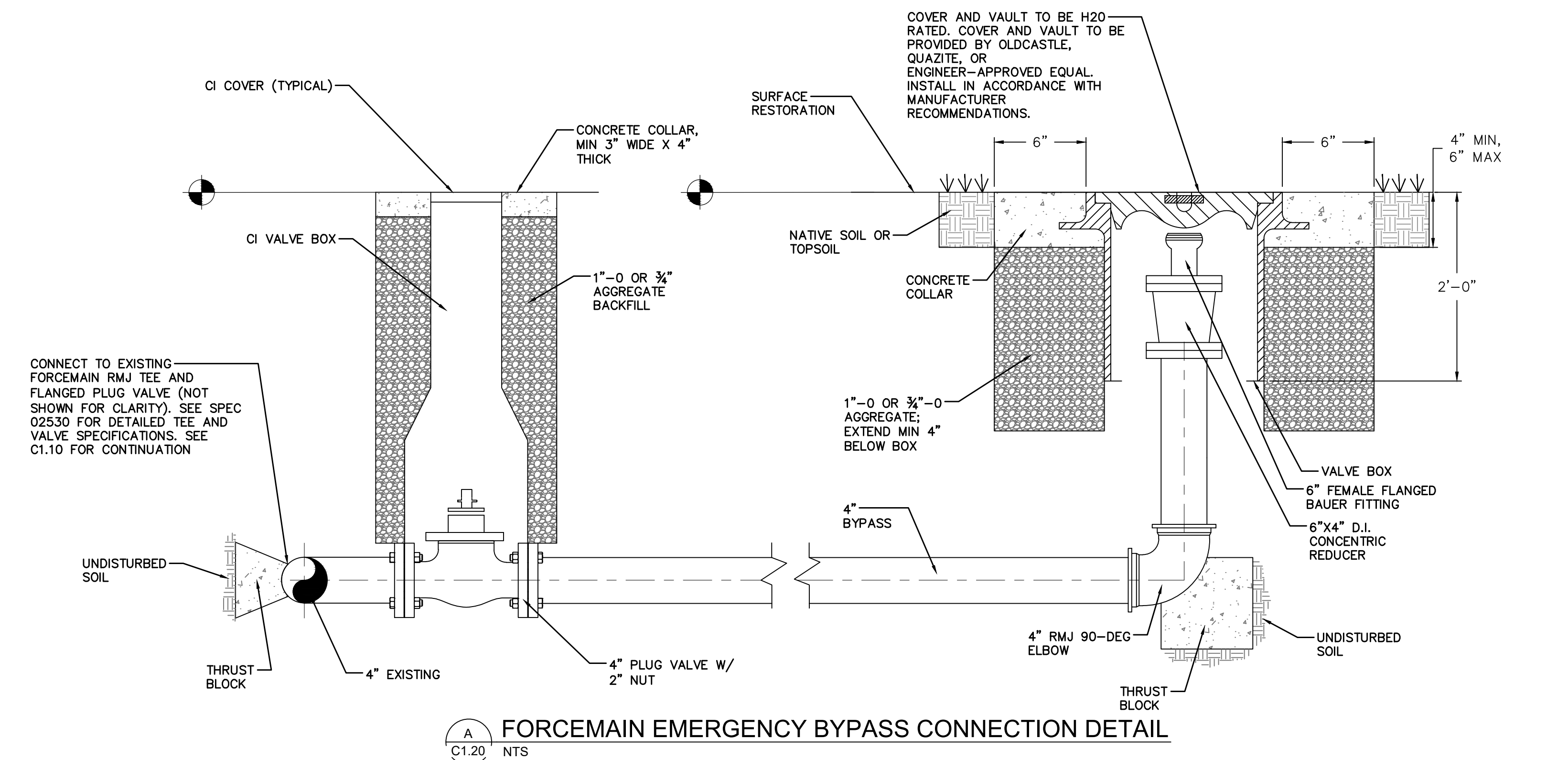
DEPUTY CIVIL ENGINEER DATE CITY ENGINEER DATE



LIFT STATION SECTION
SCALE 1/2" = 1'-0"



LIFT STATION PLAN
SCALE 1/2" = 1'-0"



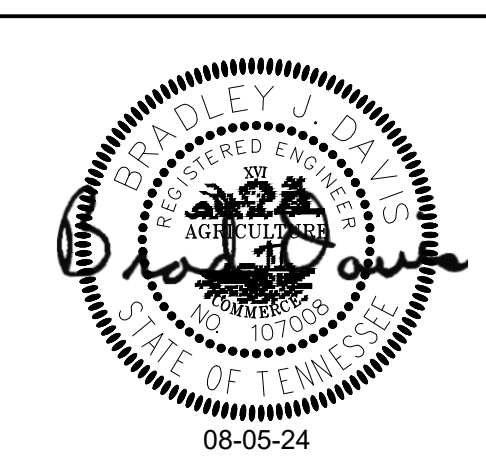
FORCEMAIN EMERGENCY BYPASS CONNECTION DETAIL
C1.20 NTS

LIFT STATION REHAB NOTES:

1. ALL PROPOSED PIPING TO BE DIP.
2. IN PREPARATION FOR COATING, THOROUGHLY CLEAN THE WETWELL AND LAWFULLY DISPOSE ON DEBRIS.
3. REMOVE AND REPLACE EXISTING PIPING, VALVES, AND APPURTENANCES.
4. CLEAN AND COAT EXISTING WETWELL WITH A 2-COAT EPOXY-MODIFIED-MORTAR AND HYBRID EPOXY COATING PER MANUFACTURERS RECOMMENDATIONS. COVER EXPOSED REBAR WITH COMPATIBLE PRIMER AND SEAL ANY LEAKS WITH HYDRAULIC CEMENT.
5. TWO PROPOSED SUBMERSIBLE PUMPS:
FLYGT MODEL NT 3127 SH3 ADAPTIVE 445 (OR APPROVED EQUAL)
MOTOR NUMBER N3127.060 21-10-4AL-D; 6.4HP; 1755RPM
3 PHASE, 230V, 60HZ
98 GPM AT 43' OF HEAD
6. REPLACE EXISTING BLOWER:
DAYTON MODEL NO. 1TDR3 (OR APPROVED EQUAL)
1/20 HP 115V, 50/60 HZ, 0.77 AMPS
273 CFM @ FREE AIR 60 HZ.

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REVISIONS		
DATE	DESCRIPTIONS	APPROVED



47 WEST VAN HUESEN DR LIFT STATION
DEVELOPER: SARP 10
ENGINEER: ABES ENGINEERING

C1.20

SHEET 3 OF 3
DIVISION OF ENGINEERING

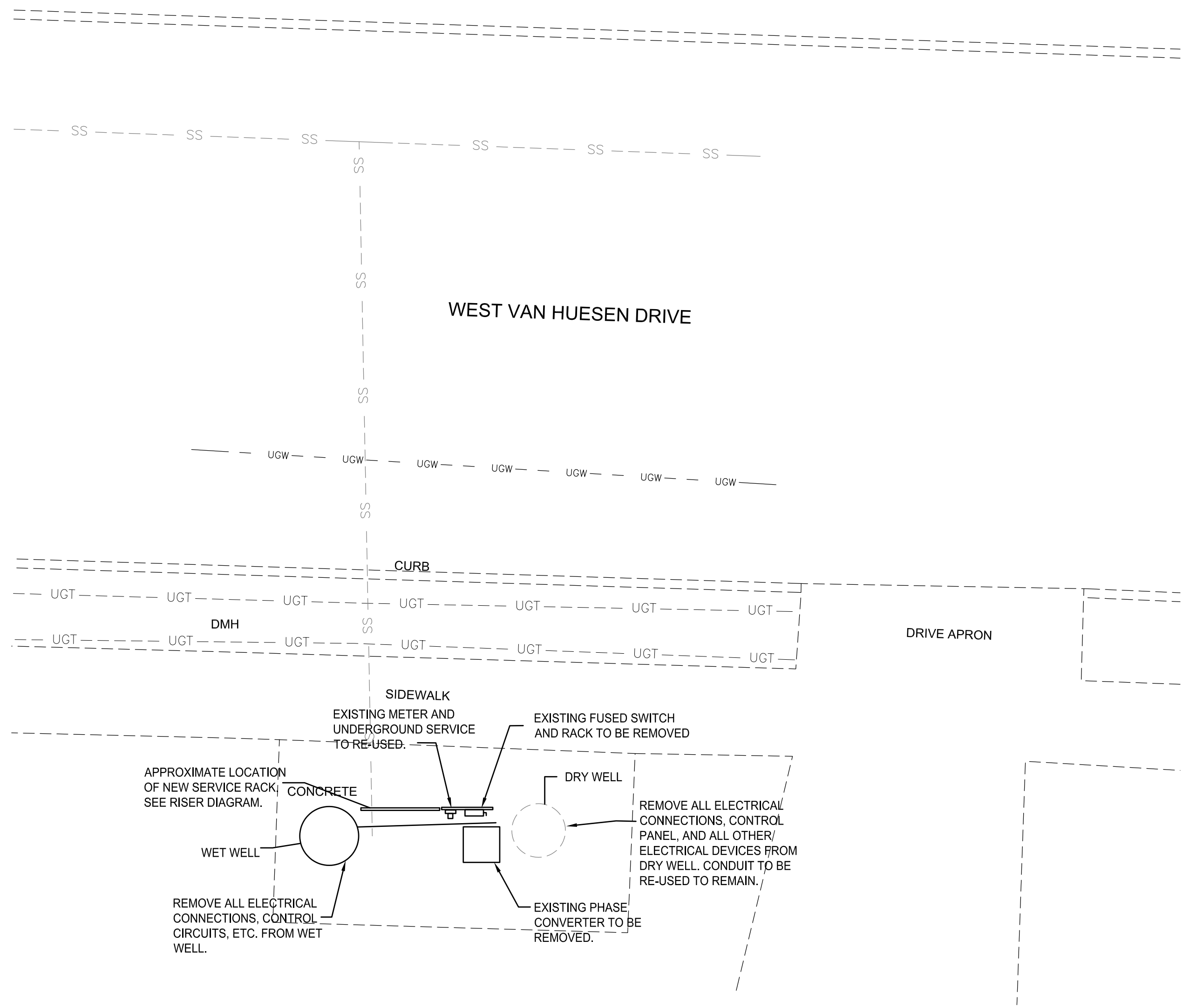
PROPOSED LS PLAN AND SECTION

47 WEST VAN HUESEN DRIVE
MEMPHIS, TENNESSEE

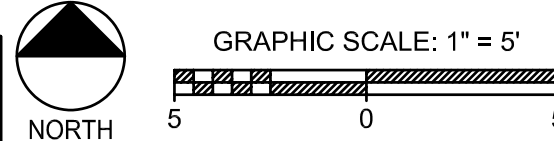
SURVEY BY: AZH, Inc. DATE: Aug-21 PROJECT NO: PN 290-21-001 47
DESIGN BY: BRAD DAVIS, P.E. DATE: Sep-22 SCALE: 1" = 2'
REVIEWED

DEPUTY CIVIL ENGINEER DATE CITY ENGINEER DATE

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D1 ELECTRICAL SITE PLAN

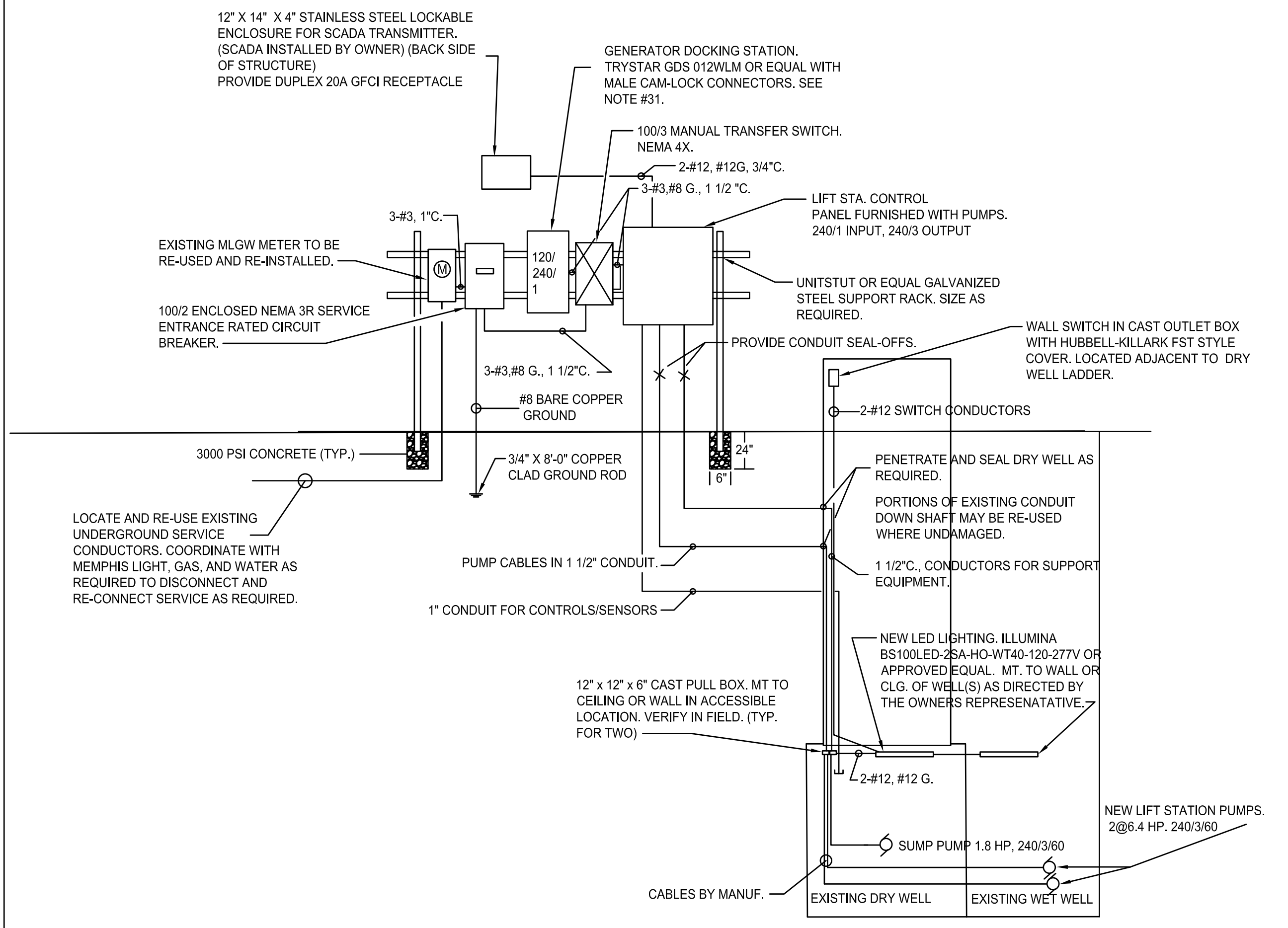


ELECTRICAL GENERAL NOTES:

- THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM INSTALLATION.
- MATERIALS AND INSTALLATION SHALL COMPLY WITH ALL CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
- ALL MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., E.T.L., CSA, OR ANOTHER RECOGNIZED TESTING LABORATORY.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, INSPECTIONS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK.
- ALL FEES ASSESSED BY MEMPHIS LIGHT, GAS, AND WATER DIVISION IN CONNECTION WITH THE NEW SERVICE WILL BE PAID BY THE OWNER DIRECTLY TO MLGW.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES, UTILITY COMPANIES, AND LOCAL CODE OFFICIALS, SHOP DRAWINGS AND/OR INSTALLATION DETAILS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES, OR REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.
- ALL NEW ELECTRICAL WORK OR MODIFICATIONS TO EXISTING ELECTRICAL DISTRIBUTION PANELS, PANELBOARDS, ETC. SHALL BE INSTALLED AS INDICATED ON THE ELECTRICAL CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT TO BE INSTALLED INDICATING ELEVATIONS, AND ALL DIMENSIONS FOR APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION. CODE REQUIRED CLEARANCES IN FRONT OF ALL ELECTRICAL EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, MAKE A SCHEDULED ARRANGEMENT WITH THE PROJECT MANAGER TO VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND WIRING FOR THE PERFORMANCE OF ALL TRADES, FOR THE ENTIRE PERIOD OF CONSTRUCTION AND SHALL REMOVE ALL TEMPORARY WIRING AT THE COMPLETION OF CONSTRUCTION. ALL COSTS FOR ESTABLISHING AND REMOVING TEMPORARY POWER SHALL BE INCLUDED IN BID.
- THE EXISTING ELECTRICAL SYSTEMS ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE OWNER'S EXISTING FUNCTIONS. SHOULD IT BECOME NECESSARY TO SHUT-DOWN ANY SYSTEM OR PORTION OF A SYSTEM, APPROVAL IN WRITING MUST BE OBTAINED FROM THE PROJECT MANAGER AND SHALL BE ONLY FOR THE PERIOD AND TIME AGREED UPON. THE BID IS TO INCLUDE THE COST OF ANY TEMPORARY WIRING AND PREMIUM TIME REQUIRED FOR THE SHUTDOWN. EXISTING ELECTRICAL WORK TO BE DEMOLISHED SHALL BE COORDINATED TO ALLOW MINIMUM DOWN-TIME OF THE STATION.
- ALL MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, TOOLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
- ALL CUTTING, DRILLING, AND PATCHING OF MASONRY, DRYWALL, CONCRETE, STEEL, OR IRON WORK BELONGING TO THE SITE SHALL BE DONE BY THIS CONTRACTOR IN ORDER THAT WORK MAY BE PROPERLY INSTALLED, UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ENGINEER OR THEIR REPRESENTATIVE. ALL PENETRATIONS SHALL BE SEALED WITH APPROVED MATERIAL.
- SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS, AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT.
- CONTRACTOR SHALL PROVIDE "AS-BUILT" DOCUMENTATION AND HARD COPY REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE PROJECT AND SUBMIT TO THE ARCHITECT AND THE ENGINEER. AS-BUILT DRAWINGS SHALL INDICATE EXACT CIRCUIT NUMBERS, LOCATIONS OF ALL DEVICES, CEILING FIXTURES, AND RACEWAY FOR LIGHTING, TELECOMMUNICATIONS AND POWER DISTRIBUTION SYSTEMS AS INSTALLED.
- ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW AND OF COMMERCIAL GRADE UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED ON DRAWINGS.
- EXCEPT AS NOTED OTHERWISE, ALL WORK REQUIRED FOR THE ELECTRICAL INSTALLATION AS SHOWN ON DRAWINGS SHALL INCLUDE ALL LABOR, INSTALLATION METHODS, EQUIPMENT, AND MATERIALS AND SHALL BE IN STRICT COMPLIANCE WITH ALL BUILDING STANDARDS.
- PROVIDE A COMPLETE METAL RACEWAY SYSTEM, FITTINGS AND ENCLOSURES FOR ALL ELECTRICAL WIRING SYSTEMS TO BE INSTALLED FOR THE PROJECT.
- MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH. ALL CONDUIT SHALL BE GALVANIZED RIGID STEEL WITH APPROPRIATE FITTINGS AND CAST BOXES WHERE REQUIRED.
- WIRE NUMBER 8 AND SMALLER FOR USE IN INTERIOR DRY LOCATIONS SHALL BE TYPE THWN THERMOPLASTIC 600 VOLT INSULATED COPPER CONDUCTORS. FEEDERS AND POWER WIRING NUMBER 6 AND LARGER SHALL BE TYPE THW 600 VOLT INSULATED COPPER, WIRE WHICH IS INSTALLED IN RACEWAY IN MOIST OR DAMP LOCATIONS SHALL BE THW, 600 VOLT INSULATED COPPER CONDUCTORS. NO WIRE SMALLER THAN NUMBER 12 AWG SHALL BE USED FOR LIGHTING OR POWER.
- THE CONTRACTOR SHALL PROVIDE A NEW TYPEWRITTEN PANEL DIRECTORY FOR EACH PANEL AT THE COMPLETION OF THE PROJECT. EACH CIRCUIT BREAKER SHALL BE LABELLED TO IDENTIFY LOAD TYPE AND LOCATION.
- PERFORM ALL WORK OF A DEMOLITION NATURE THAT MAY BE REQUIRED OR NECESSARY FOR THE FULL AND COMPLETE EXECUTION OF THE WORK, WHETHER EXPLICITLY SHOWN AND/OR SPECIFIED OR NOT. EXACT EXTENT OF DEMOLITION WILL NOT BE FULLY INDICATED BY DRAWINGS. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE CONTRACT DOCUMENTS WITH ARCHITECTURAL AND DEMOLITION DRAWINGS TO EXISTING CONDITIONS. ELECTRICAL EQUIPMENT WHICH WILL NOT BE REUSED SHALL BE TURNED OVER TO THE OWNER OR REMOVED FROM THE PREMISES AS DETERMINED BY THE PROJECT MANAGER.
- ANY EXISTING ELECTRICAL MATERIAL AND EQUIPMENT WHICH INTERFERES WITH THE NEW WORK SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR. VERIFY REMOVAL AND NEW LOCATION OF EQUIPMENT WITH THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER PRIOR TO WORK.
- VERIFY CLEARANCES FOR ALL NEW OR EXISTING RELOCATED ELECTRICAL WORK BEFORE PROCEEDING WITH CONSTRUCTION. COORDINATE USAGE OF AVAILABLE SPACE WITH ALL TRADES. IN THE EVENT OF CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS. WHERE MORE STRINGENT REQUIREMENTS THAN THOSE DESCRIBED HEREIN OR AS SET FORTH UNDER CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION, THOSE GREATER REQUIREMENTS SHALL BE ADHERED TO.
- EXISTING CONDITIONS OF ALL EXISTING BUILDING EQUIPMENT, DEVICES, FIXTURES, AND SYSTEMS THAT REQUIRE REWIRING, REUSE, RELOCATION, OR REFINISHING AS PER DRAWINGS AND SPECIFICATIONS SHALL BE FIELD VERIFIED BY THE E.I. PRIOR TO COMMENCEMENT OF ANY WORK TO BE COMPLETELY OPERATIONAL. E.C. SHALL SUBMIT A WRITTEN STATEMENT AND ITEMIZED LISTING OF ALL EXISTING CONDITIONS OF THE FOLLOWING, ALTHOUGH NOT LIMITED TO THOSE LISTED:

THE WRITTEN STATEMENT SHALL BE SUBMITTED TO THE PROJECT MGR. PRIOR TO WORK. IN THE EVENT THAT THE CONTRACTOR COMMENCES WORK WITHOUT SUBMITTAL, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND COST TO MAINTAIN THE ABOVE IN GOOD WORKING ORDER AND CONDITION.
- CONTRACTOR SHALL REFER TO CIVIL ENGINEERING DRAWINGS FOR EXACT LOCATIONS OF ALL NEW EQUIPMENT.
- GENERATOR CONNECTION BOX SHALL BE PROVIDED WITH ENGRAVED IDENTIFICATION PLAQUE (RED/WHITE LETTERS) WITH VOLTAGE AND PHASE CONFIGURATION OF STATION AS INDICATED. LETTERS TO BE 3" IN HEIGHT. NAMEPLATE SCREWED TO BOX USING STAINLESS STEEL SCREWS.

D3 ELECTRICAL GENERAL NOTES



B4 ELECTRICAL RISER DIAGRAM

A2H
ENGINEERS - ARCHITECTS - PLANNERS

2009 Divines Plantation Road
Lakeland, TN 38002

901.372.0404
www.a2h.com

CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE

LIFT STATION REHAB DESIGN - GROUP 3

DEVELOPER: SARP 10
ENGINEER: A2H, INC.



DWG NO. **E1.0**

DIVISION OF ENGINEERING
ELECTRICAL SITE PLAN

LOCATION: MEMPHIS, TENNESSEE

SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117-02

DESIGN BY: A2H, INC DATE: 09/2022 SCALE: AS NOTED

REVIEWED BY: _____

CITY ENGINEER _____ DATE _____

REVISED 09/17/2022 Electrical/PhD/Design Van Huesen/Van Huesen E.I.C. SITE PLAN.dwg
PLANNING/DESIGN/ENGINEERING

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LIFT STATION IMPROVEMENTS

For

360 NORTH HIGHLAND

SEWER ASSESSMENT & REHABILITATION PROGRAM (SARP 10)
CITY OF MEMPHIS, TN

CONSTRUCTION DRAWINGS
AUGUST 5, 2024



VICINITY MAP
SCALE: 1" = 1000'

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AUG 5 2024 4:45pm
A2H
LATEST REV.

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GENERAL NOTES

- ALL DESIGN, CONSTRUCTION AND MATERIAL SHALL BE IN COMPLIANCE WITH THE SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10) AND CITY OF MEMPHIS CONSTRUCTION SPECIFICATIONS AND STANDARDS.
- THE CONTRACTOR SHALL NOT ENTER UPON, WORK UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT PRIOR PERMISSION FROM SAID PROPERTY OWNER.
- GRADING AND DRAINAGE: FINISH GRADE SHALL BE SLOPED FOR POSITIVE DRAINAGE.
- 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.
- ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- THE LOCATION OF ALL EXISTING UTILITIES SHALL BE PROPERLY VERIFIED PRIOR TO CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN A MANNER TO ENSURE THAT EXISTING UTILITIES ARE NOT INTERFERED WITH OR DISRUPTED.
- THE CONTRACTOR IS TO INSTALL EROSION AND SEDIMENT CONTROL SYSTEMS AND STRUCTURES AS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR AND SHALL PAY FOR ALL SURVEY LAYOUT AND STAKING.

CITY OF MEMPHIS TYPICAL CONSTRUCTION NOTES

- LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THE 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, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-636-8025.
- 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 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 EASEMENTS. 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.

DEMOLITION NOTES

- ALL PUMPS, MOTORS, ETC. REMOVED SHALL BE RETURNED TO MEMPHIS WTC3 DEPARTMENT. CONTACT JAMES GREENLEE @ 901-626-0237

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 SODDED AS REQUIRED TO PREVENT EROSION.
- THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
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- 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.

- MANHOLES LOCATED WITHIN THE 100-YEAR FLOODPLAIN SHOULD EXTEND A MINIMUM OF 12" (1'-0") ABOVE THE 100-YEAR FLOOD LEVEL IRREGARDLESS OF WHETHER THE MANHOLE IS ON RESIDENTIAL, COMMERCIAL, OR RURAL PROPERTY. A MANHOLE LOCATED WITHIN THE 100-YEAR FLOOD PLAIN MUST HAVE A SEALED COVER AND VENT STACK IF IT EXTENDS LESS THAN THE MINIMUM 12" ABOVE THE 100-YEAR FLOOD LEVEL. WITHIN THIS ALTERNATIVE THE VENT STACKS COULD BE LIMITED TO EVERY OTHER MANHOLE IF LOCATED WITHIN A RESIDENTIAL AREA.
- LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE AND MAY BE NOT ALL-INCLUSIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITY COMPANIES TO DETERMINE EXACT LOCATION OF ALL UTILITIES.
- THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITIES PRIOR TO SUBMITTING HIS BID. IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF THE WORK FOR THE PROJECT, SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED "AROUND" UTILITY FACILITIES THAT WILL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR WILL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY THE UTILITY ADJUSTMENTS.
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

B1
NTS
GENERAL NOTES

B3
NTS
SEWER CONSTRUCTION NOTES

CIVIL	
Sheet Number	Sheet Name
G0.0	COVER
C0.0	GENERAL NOTES
C2.0	SITE PLAN
C6.0	LIFT STATION EXISTING CONDITIONS
C6.1	LIFT STATION SECTION
C7.0	TRAFFIC CONTROL PLAN
C7.1	TRAFFIC CONTROL PLAN
C10.0	LIFT STATION DETAILS
E1.0	ELECTRICAL SITE PLAN

C1
NTS
SHEET INDEX

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 w/ CONC BASE
+	POWER POLE w/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 SPRINKLER
+	PEDESTRIAN LIGHT
+	BACKFLOW PREVENTER
+	ROOFDRAIN/DOWNSPOUT

D1
NTS
SYMBOL LEGEND

BM #304 HIGHLAND ST. & MIMOSA AVE.
CITY MONUMENT IS LOCATED ON THE NE COR., AT BACK OF SWALK P.I. 301.08

THE PROJECT AREA IS LOCATED IN ZONE X AREA PER FLOOD INSURANCE RATE MAP 47157C0290F, DATED SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE

LIFT STATION REHAB DESIGN - GROUP 3

DEVELOPER: SARP 10
ENGINEER: A2H, INC.



SEWER BASIN ID: WS04-2
SHEET OF

C0.0

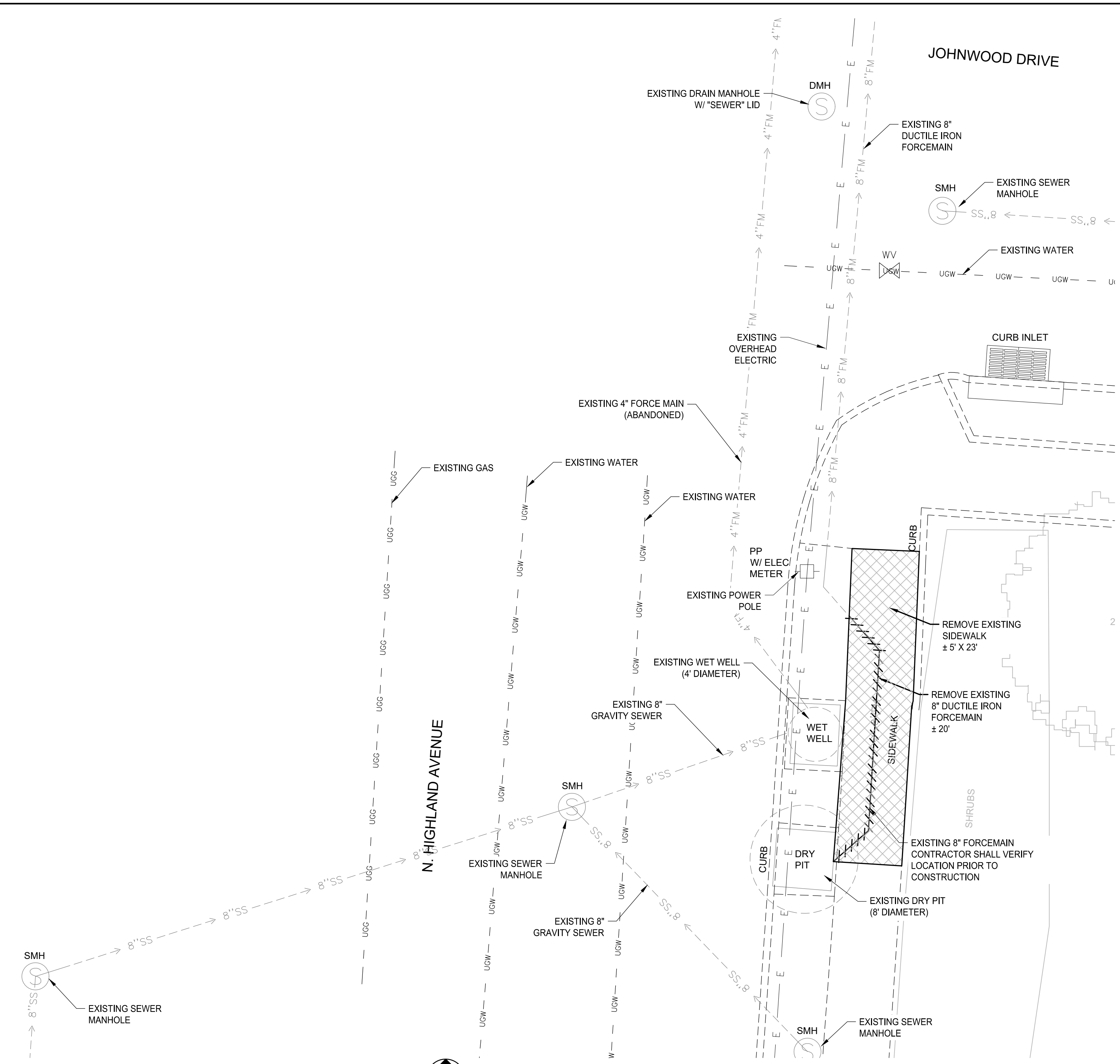
DIVISION OF ENGINEERING
GENERAL NOTES
LOCATION: 360 NORTH HIGHLAND
MEMPHIS, TENNESSEE

SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC DATE: 09/2022 SCALE: AS NOTED
REVIEWED BY: _____

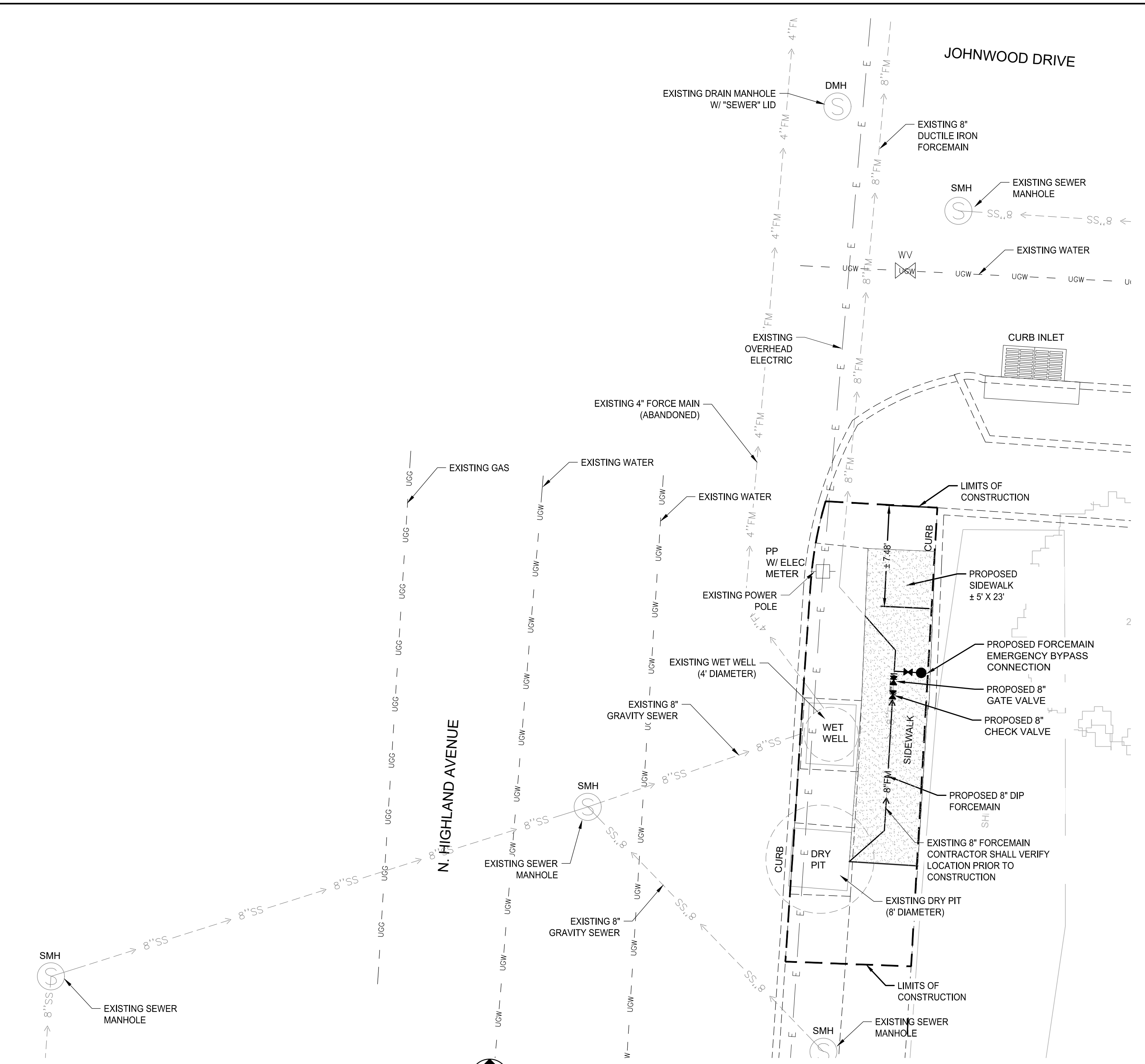
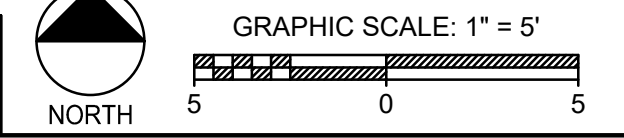
CITY ENGINEER _____ DATE _____

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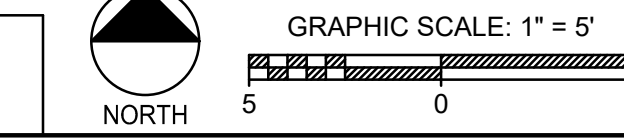
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C1
1" = 5'
DEMO PLAN



C4
NTS
SITE PLAN



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DATE: 08/2021 10:24 AM

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 EVIDENCED 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.

BM #304 HIGHLAND ST. & MIMOSA AVE.
CITY MONUMENT IS LOCATED ON THE NE COR., AT BACK OF S/WALK P.I.
301.08

THE PROJECT AREA IS LOCATED IN ZONE X AREA PER FLOOD INSURANCE RATE MAP 47157C0290F, DATED SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE

LIFT STATION REHAB DESIGN - GROUP 3

DEVELOPER: SARP 10
ENGINEER: A2H, INC.



SEWER BASIN ID: WS04-2
SHEET OF

C2.0

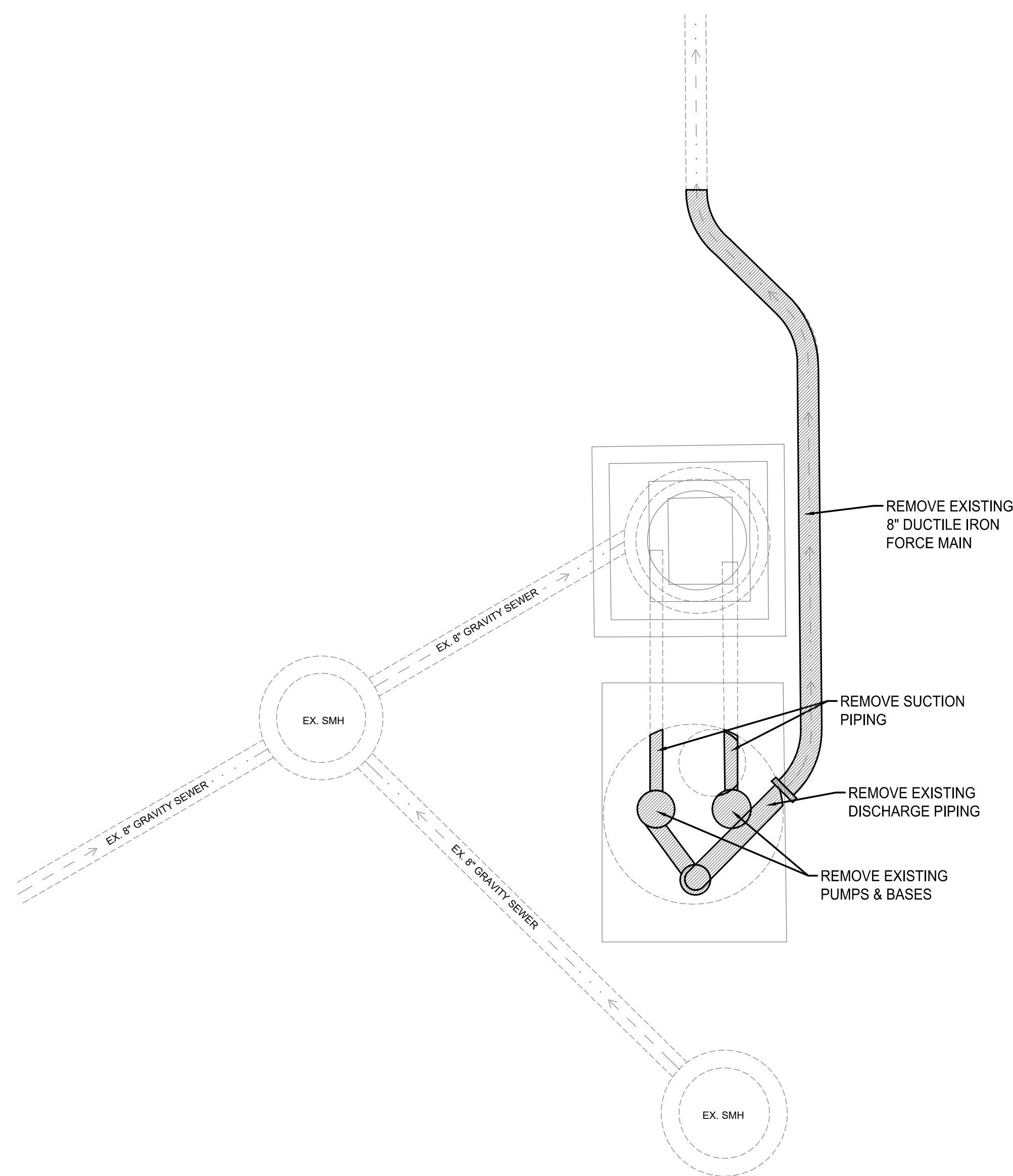
DIVISION OF ENGINEERING
SITE PLAN

LOCATION: 360 NORTH HIGHLAND
MEMPHIS, TENNESSEE

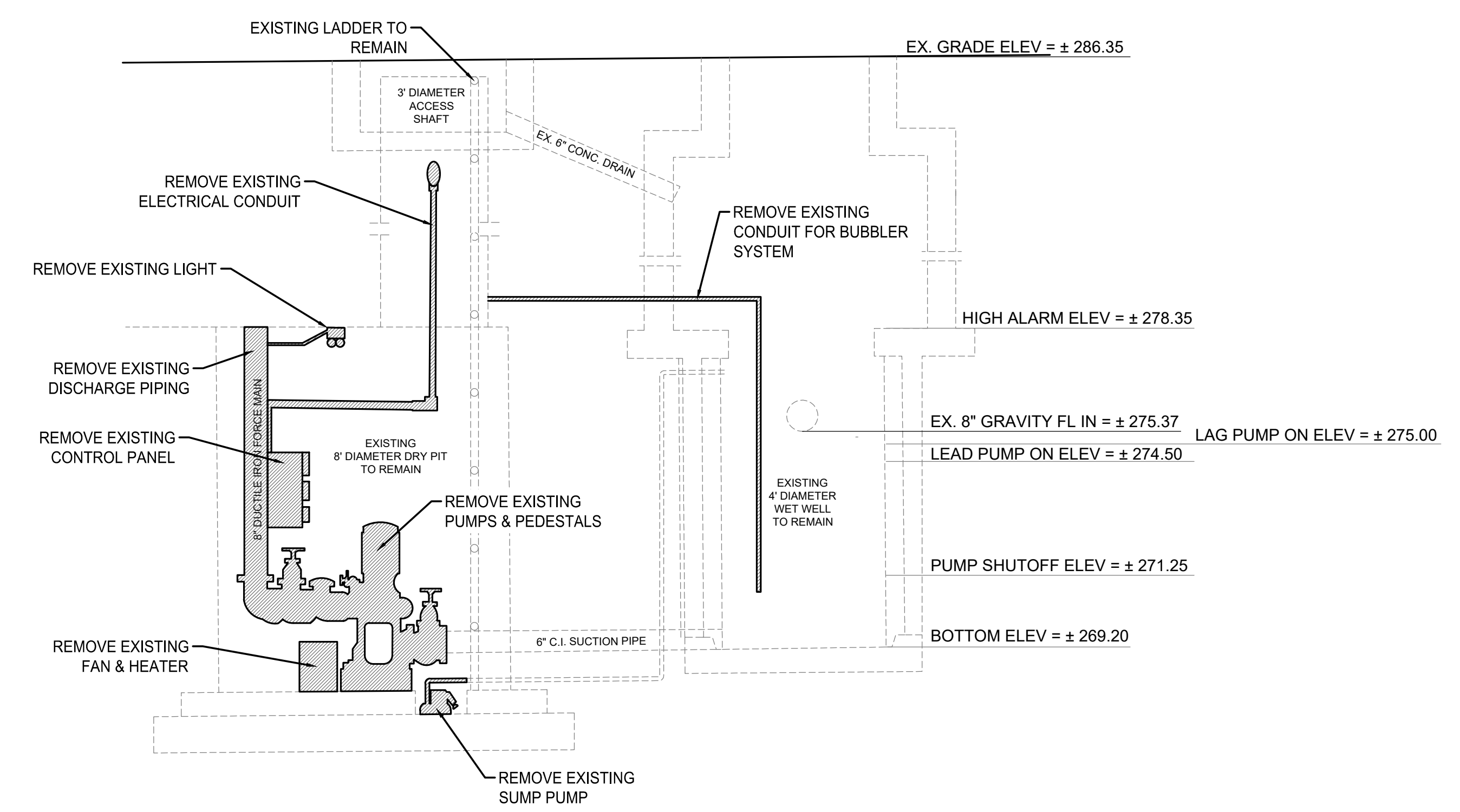
SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117-02
DESIGN BY: A2H, INC DATE: 09/2022 SCALE: AS NOTED

REVIEWED BY: _____
CITY ENGINEER _____ DATE _____

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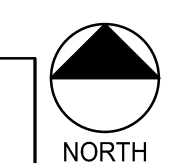
LIFT STATION PLAN VIEW



LIFT STATION ELEVATION

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D1
NTS
LIFT STATION DEMO PLAN



RECORD DRAWINGS PROVIDED BY THE CITY OF MEMPHIS
TITLED : HIGHLAND HEIGHTS SEWER DISTRICT
JOHNSONWOOD PUMPING STATION
(SHEET 2 OF 2)
DATED: 05-17-68

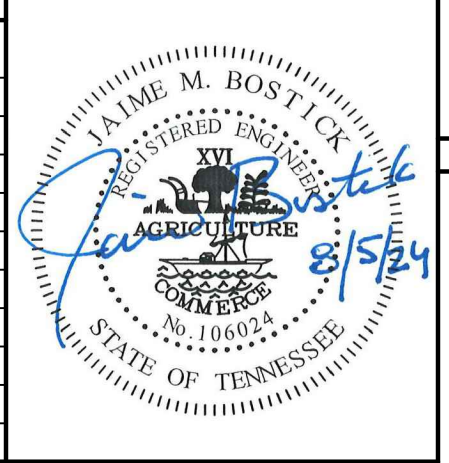
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CITY MONUMENT IS LOCATED ON THE NE COR., AT BACK OF
S/WALK P.I.
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PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



CONSTRUCTION DOCUMENTS

REVISIONS		
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LIFT STATION REHAB DESIGN - GROUP 3
DEVELOPER: SARP 10
ENGINEER: A2H, INC.

SEWER BASIN ID: WS04-2
SHEET OF

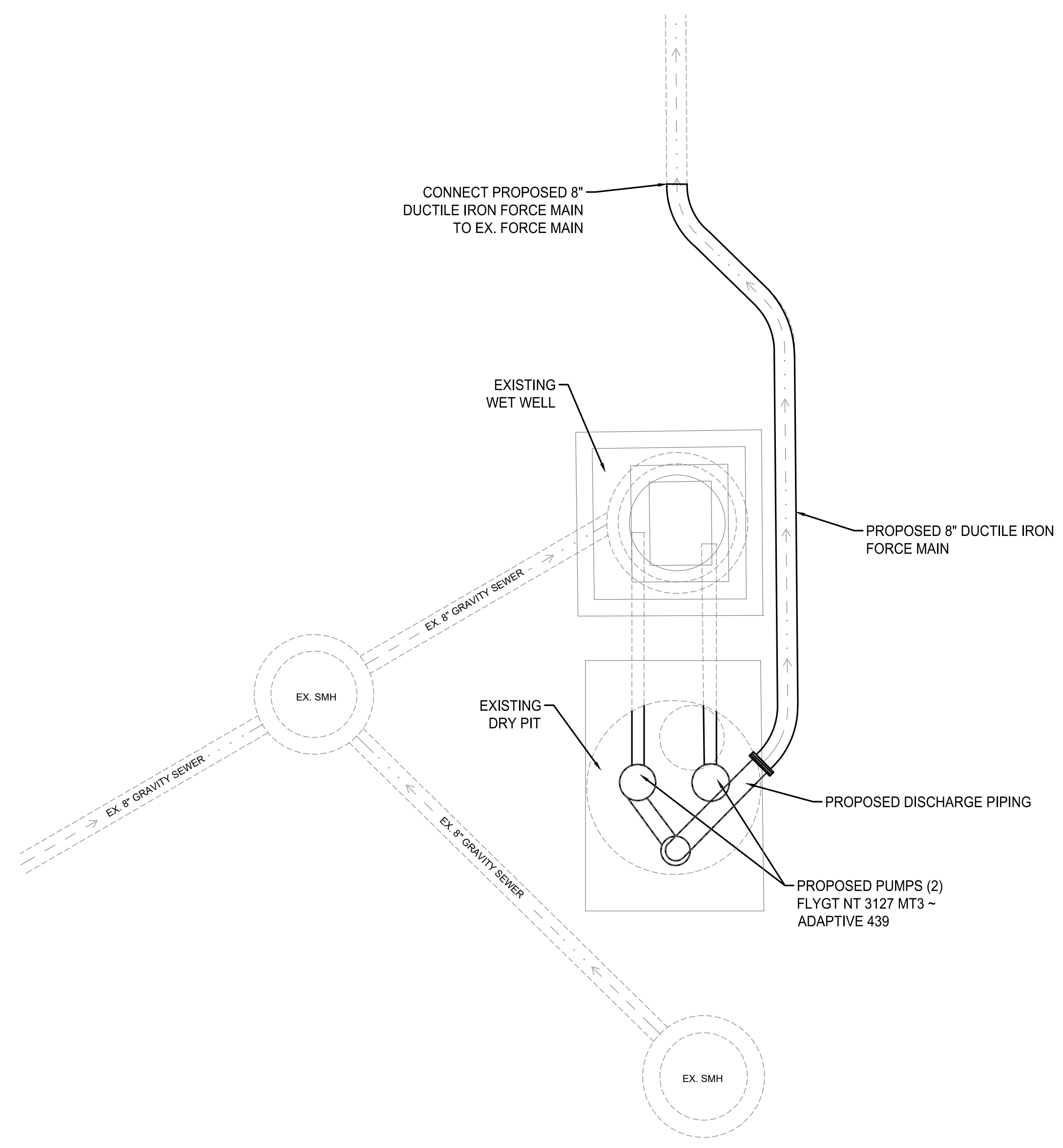
C6.0

DIVISION OF ENGINEERING
LIFT STATION EXISTING CONDITIONS
LOCATION: 360 NORTH HIGHLAND
MEMPHIS, TENNESSEE

SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC DATE: 09/2022 SCALE: AS NOTED
REVIEWED BY: _____

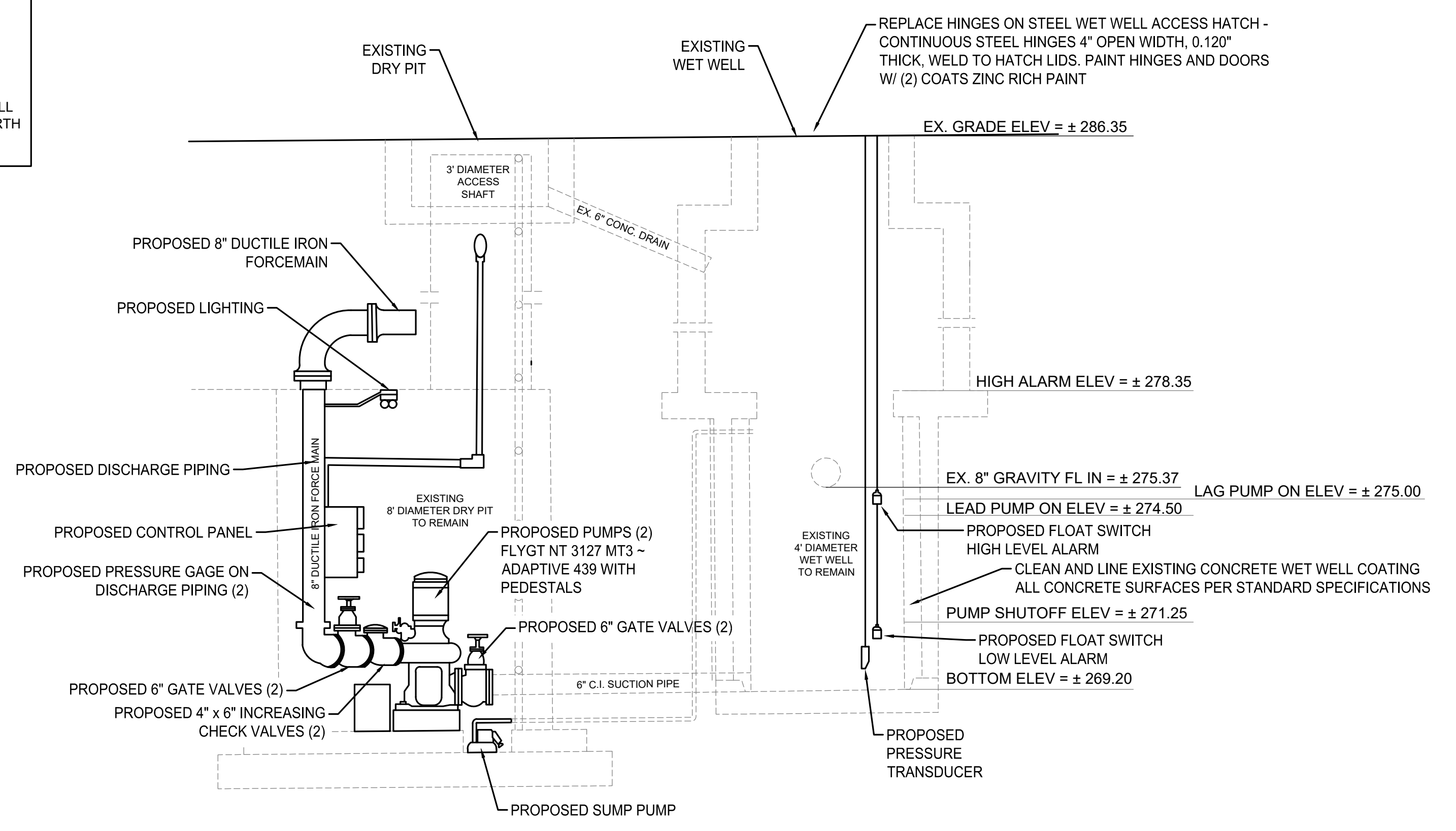
CITY ENGINEER _____ DATE _____

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LIFT STATION PLAN VIEW

NOTES:
 1. PROPOSED PUMPS SHALL BE:
 FLYGT NT 3127 MT3 ~ ADAPTIVE 439 (OR APPROVED EQUAL)
 MOTOR NUMBER N3127.070 21-12-4AL-D; 7.5 hp; 1760 rpm;
 3 PHASE; 240V; 60HZ
 515 GPM @ 36' OF HEAD
 2. EXISTING BUBBLER SYSTEM SHALL BE REMOVED AND REPLACED WITH PRESSURE TRANSDUCERS AND EMERGENCY HIGH WATER ALARM FLOATS.
 3. ALL PROPOSED PIPING TO BE DIP
 4. EXISTING ELEVATIONS AT TOP AND BOTTOM OF WET WELL TAKEN FROM "FINAL ASSESSMENT REPORT FOR 360 NORTH HIGHLAND" DATED OCTOBER 29, 2018. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION.



LIFT STATION ELEVATION

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 EVIDENCED 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.

BM #304 HIGHLAND ST. & MIMOSA AVE.
 CITY MONUMENT IS LOCATED ON THE NE COR., AT BACK OF S/WALK P.I.
 301.08
 THE PROJECT AREA IS LOCATED IN ZONE X AREA PER FLOOD INSURANCE RATE MAP 47157C0290F, DATED SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE

LIFT STATION REHAB DESIGN - GROUP 3

DEVELOPER: SARP 10
 ENGINEER: A2H, INC.



SEWER BASIN ID: WS04-2
 SHEET OF

C6.1

DIVISION OF ENGINEERING
LIFT STATION ELEVATION
 LOCATION: 360 NORTH HIGHLAND
 MEMPHIS, TENNESSEE

SURVEY: A2H, INC. DATE: 08/2021 PROJECT: 21117.02
 DESIGN BY: A2H, INC. DATE: 09/2022 SCALE: AS NOTED
 REVIEWED BY: _____
 CITY ENGINEER _____ DATE _____

j:\m\2022\0917\0222\Drawings\Highland\Progress\010 - PUMP STATION PLAN.dwg
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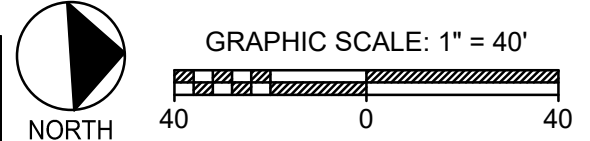


A1 TRAFFIC CONTROL PLAN
1" = 40'

- 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 BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION DEPARTMENT (901-636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (901-636-6710) A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTATION A TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS.
- SIZES OF ALL SIGNS SHALL COMPLY WITH THE 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 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 STREETS, DRIVEWAY ACCESS, AND BICYCLING AND PEDESTRIAN WAYS (ADA) 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.
- THE CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "A" WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
- THE 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.
- TWO-WAY TRAFFIC SHALL BE MAINTAINED ON NORTH HIGHLAND STREET AT ALL TIMES.
- DURING CONSTRUCTION, TWO 10' TRAFFIC LANES AND ONE 5' BIKE LANE SHALL REMAIN OPEN TO NORTHBOUND TRAFFIC AT ALL TIMES, AND TWO 10' TRAFFIC LANES AND ONE 5' BIKE LANE SHALL REMAIN OPEN TO SOUTHBOUND TRAFFIC AT ALL TIMES.
- ONLY ONE PHASE OF THE TRAFFIC CONTROL PLAN SHALL BE ACTIVE AT ANY ONE TIME.
- ALL TEMPORARY OR PERMANENT TRAVELED SURFACE SHALL BE INSPECTED DAILY BY THE

ADVISORY SPEED SHALL BE 35 MPH
EXISTING TRAFFIC LANE WIDTH = 10'
EXISTING BIKE LANE WIDTH = 5'
LANE SHIFT TAPER LENGTH = 150'
DURATION OF TRAFFIC CONTROL = 4 WEEKS
ALL STRIPING SHOWN IS TEMPORARY

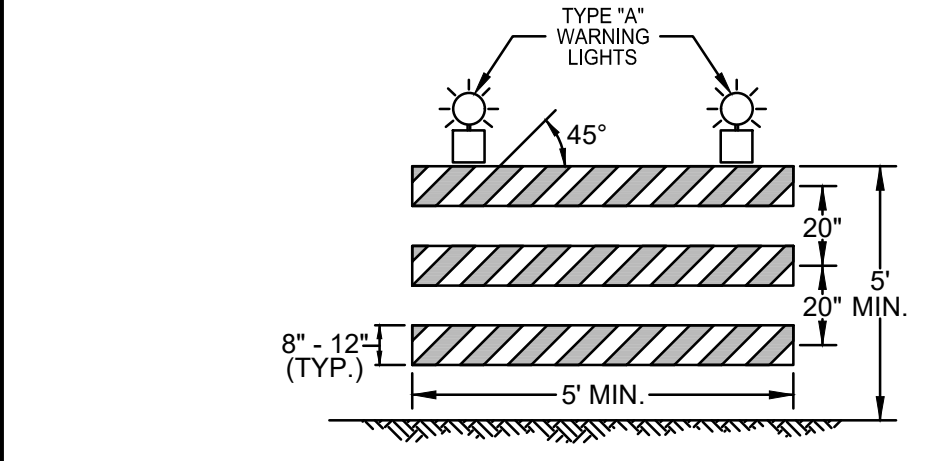
D1 TRAFFIC CONTROL NOTES PHASE 1 OF 1
NTS



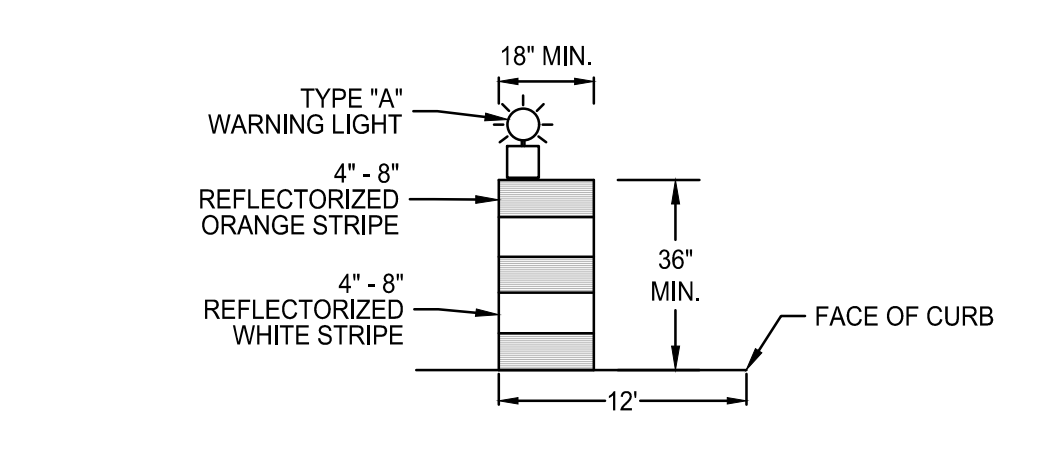
- CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR RE-FINISHING PERFORMED.
- MARKINGS SHALL BE MAINTAINED IN LONG-TERM STATIONARY WORK AREAS AND SHALL MATCH AND MEET THE MARKINGS IN PLACE AT BOTH ENDS OF THE WORK AREA.
- LANE LINES SHOULD BE PLACED, REPLACED, OR DELINEATED WHERE APPROPRIATE BEFORE THE ROADWAY IS OPENED TO TRAFFIC.
- CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS SIGNAL SHOP AT (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 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 IS PROHIBITED FROM CLOSING THE EXISTING SIDEWALK OUTSIDE THE AREA INDICATED ON THIS PLAN AT ANY TIME DURING THIS PROJECT. IF ANY ADDITIONAL SIDEWALK CLOSURE IS NEEDED, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER'S OFFICE.
- 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.

- - CHANNELIZING DRUM WITH TYPE "A" LIGHTS
 - - TYPE III BARRICADE WITH TYPE "A" LIGHTS
 - - TUBULAR MARKERS
 - - TEMPORARY BIKE LANE MARKER
 - - TEMPORARY STRAIGHT ARROWS
 - ▨ - ACTIVE WORK ZONE
- SSW - TEMPORARY SINGLE SOLID WHITE
 - SSY - TEMPORARY SINGLE SOLID YELLOW
 - DSY - TEMPORARY DOUBLE SOLID YELLOW

C3 LEGEND
NTS



C4 TYPE III BARRICADE
NTS



C5 CHANNELIZING DRUM
NTS

BM #304 HIGHLAND ST. & MIMOSA AVE.
CITY MONUMENT IS LOCATED ON THE NE COR., AT BACK OF SWALK P.I.
301.08

THE PROJECT AREA IS LOCATED IN ZONE X AREA PER FLOOD INSURANCE RATE MAP 47157C0290F, DATED SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



CONSTRUCTION DOCUMENTS		
REVISIONS		
ITEM NO.	DESCRIPTION	DATE

PROJECT DURATION = 4 WEEKS
DESIGN SPEED = 35 MPH

SEWER BASIN ID: WS04-2
SHEET 1 OF 2

C7.0

DIVISION OF ENGINEERING
TRAFFIC CONTROL PLAN
LOCATION: 360 NORTH HIGHLAND
MEMPHIS, TENNESSEE

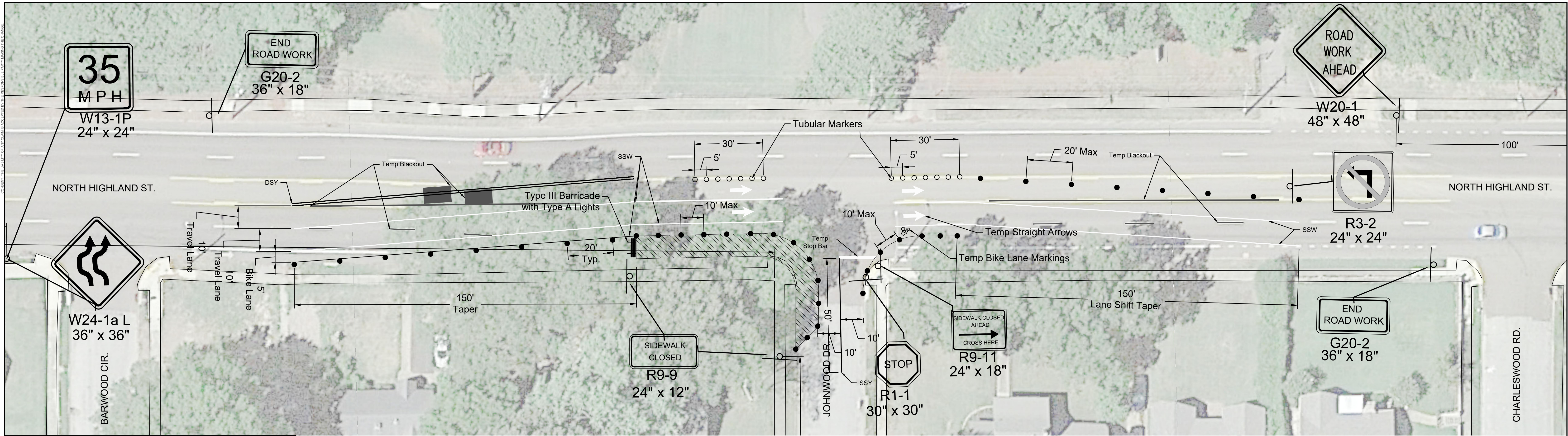
SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC DATE: 09/2022 SCALE: AS NOTED
REVIEWED BY: _____

DEVELOPER: SARP 10
ENGINEER: A2H, INC.

CITY ENGINEER _____ DATE _____

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A1 TRAFFIC CONTROL PLAN
1" = 20'

- 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.
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CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR RE-FINISHING PERFORMED.

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- 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.

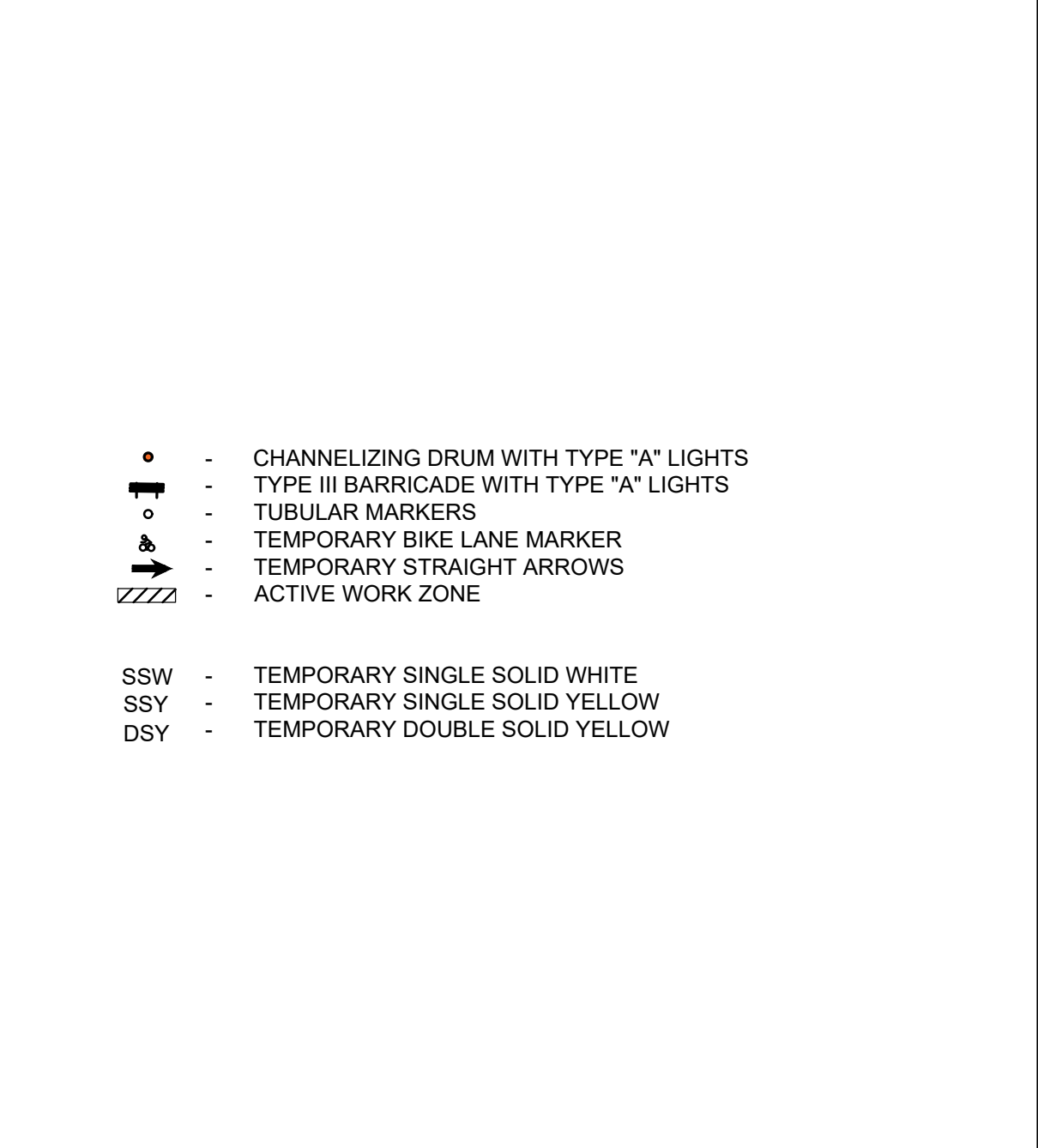
ADVISORY SPEED SHALL BE 35 MPH
 EXISTING TRAFFIC LANE WIDTH = 10'
 EXISTING BIKE LANE WIDTH = 5'
 LANE SHIFT TAPER LENGTH = 150'
 DURATION OF TRAFFIC CONTROL = 4 WEEKS
 ALL STRIPING SHOWN IS TEMPORARY

D1 TRAFFIC CONTROL NOTES PHASE 1 OF 1
NTS

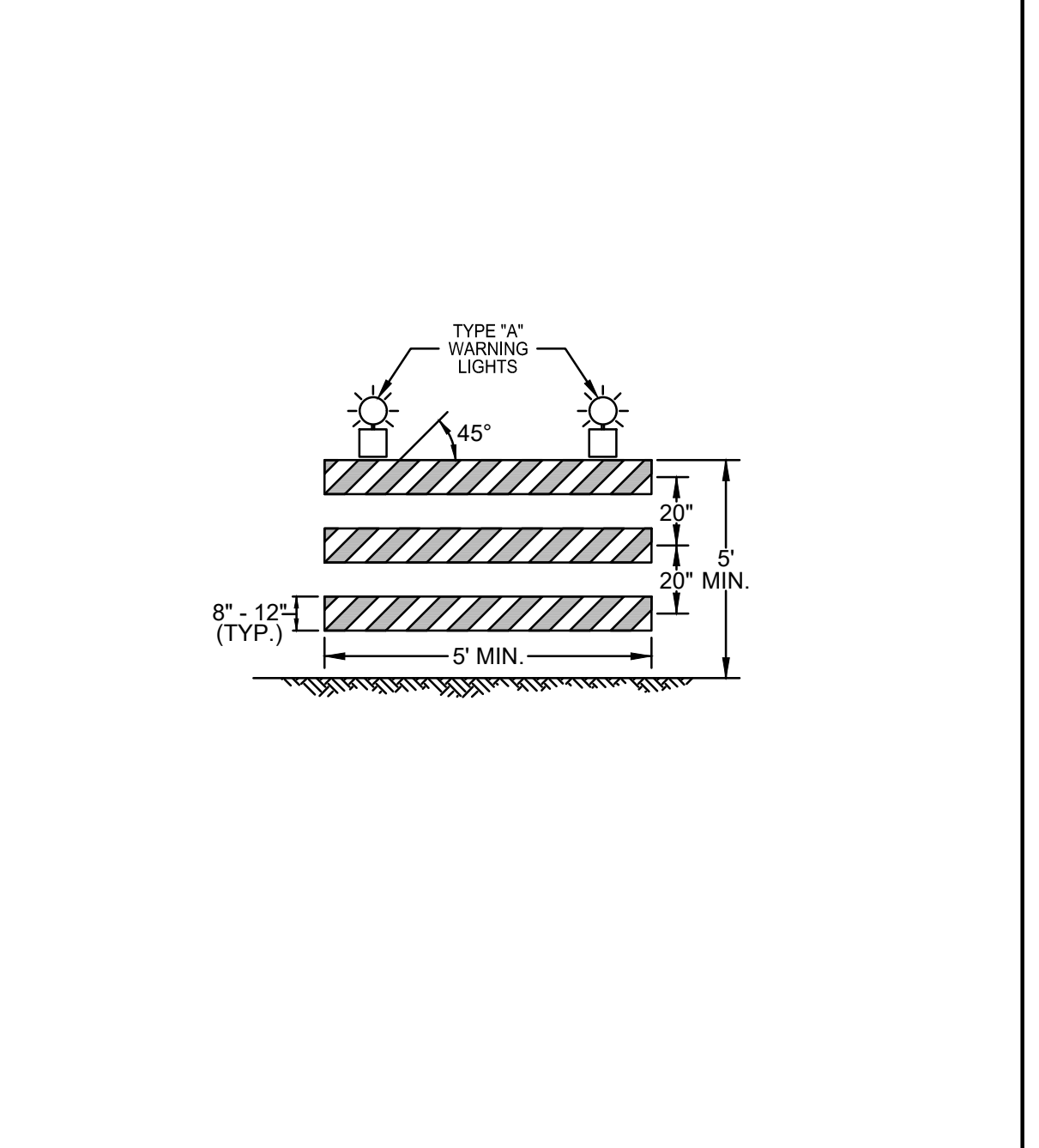
16. CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS SIGNAL SHOP AT (901-528-2844) FOR LOCATION OF SIGNAL CONDUIT AND WIRES.
17. THE APPROPRIATE TRAFFIC CONTROL SHALL BE INSTALLED AT THE INCEPTION OF EACH STAGE OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER.
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19. 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.
20. ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETROREFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
21. ALL TEMPORARY STRIPING SHALL BE PREFORMED TAPE.
22. THE CONTRACTOR IS PROHIBITED FROM CLOSING THE EXISTING SIDEWALK OUTSIDE THE AREA INDICATED ON THIS PLAN AT ANY TIME DURING THIS PROJECT. IF ANY ADDITIONAL SIDEWALK CLOSURE IS NEEDED, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER'S OFFICE.
23. 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.

- CHANNELIZING DRUM WITH TYPE "A" LIGHTS
- TYPE III BARRICADE WITH TYPE "A" LIGHTS
- TUBULAR MARKERS
- TEMPORARY BIKE LANE MARKER
- TEMPORARY STRAIGHT ARROWS
- ACTIVE WORK ZONE
- SSW - TEMPORARY SINGLE SOLID WHITE
- SSY - TEMPORARY SINGLE SOLID YELLOW
- DSY - TEMPORARY DOUBLE SOLID YELLOW

C3 LEGEND
NTS

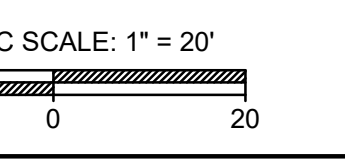


C4 TYPE III BARRICADE
NTS



C5 CHANNELIZING DRUM
NTS

D1 TRAFFIC CONTROL NOTES PHASE 1 OF 1
NTS



BM #304 HIGHLAND ST. & MIMOSA AVE.
 CITY MONUMENT IS LOCATED ON THE NE COR., AT BACK OF
 SWALK P.I.
 301.08

THE PROJECT AREA IS LOCATED IN ZONE X AREA PER
 FLOOD INSURANCE RATE MAP 47157C0290F, DATED
 SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE
 FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH
 AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH
 DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS
 PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



CONSTRUCTION DOCUMENTS		
REVISIONS		
ITEM NO.	DESCRIPTION	DATE



PROJECT DURATION = 4 WEEKS
 DESIGN SPEED = 35 MPH

SEWER BASIN ID: WS04-2
 SHEET 2 OF 2

C7.1

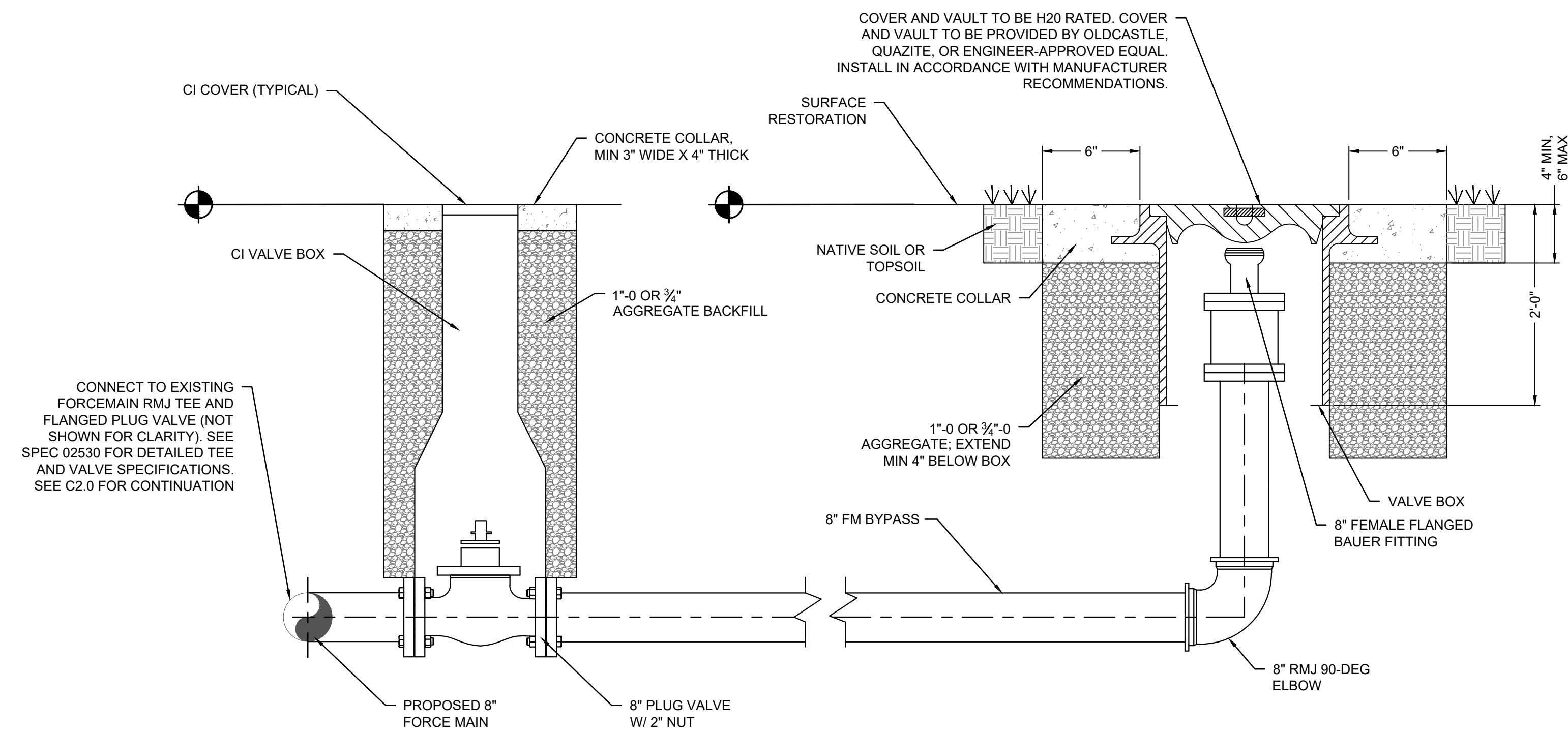
DIVISION OF ENGINEERING
TRAFFIC CONTROL PLAN
 LOCATION: 360 NORTH HIGHLAND
 MEMPHIS, TENNESSEE

SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
 DESIGN BY: A2H, INC DATE: 09/2022 SCALE: AS NOTED
 REVIEWED BY: _____

DEVELOPER: SARP 10
 ENGINEER: A2H, INC.

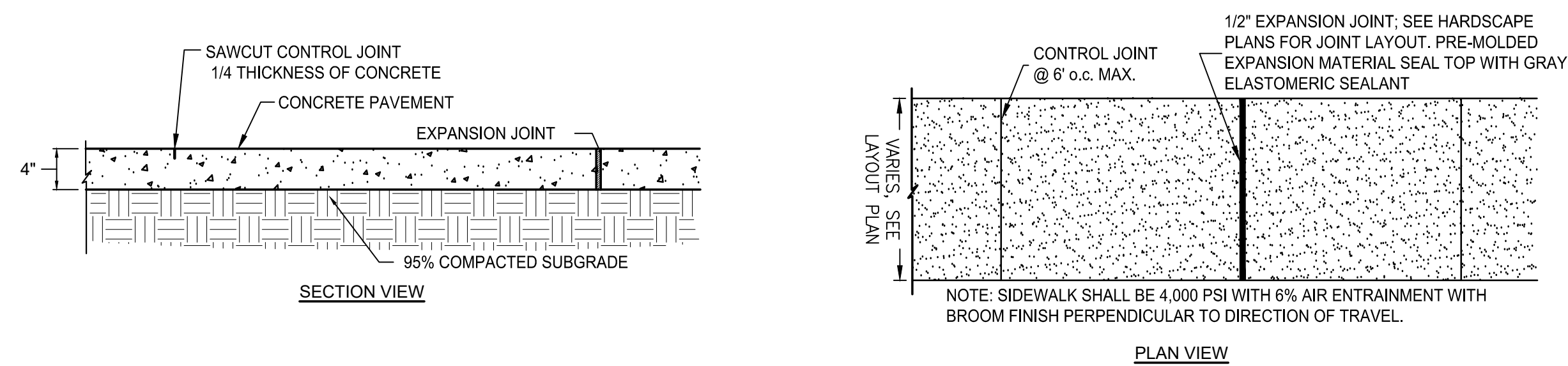
CITY ENGINEER _____ DATE _____

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B1 FORCE MAIN EMERGENCY BYPASS CONNECTION

NTS



C1 CONCRETE SIDEWALK

NTS

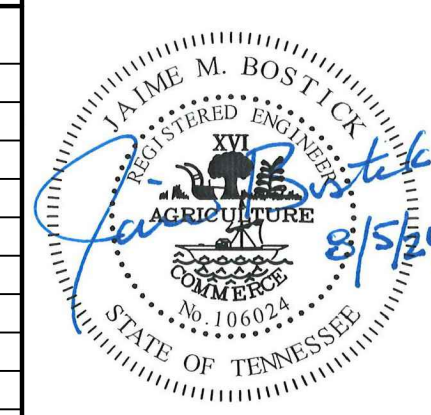
BM #304 HIGHLAND ST. & MIMOSA AVE.
CITY MONUMENT IS LOCATED ON THE NE COR., AT BACK OF
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THE PROJECT AREA IS LOCATED IN ZONE X AREA PER
FLOOD INSURANCE RATE MAP 47157C0290F, DATED
SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE
FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH
AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH
DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS
PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE



SEWER BASIN ID: WS04-2
SHEET ___ OF ___

DWG NO.
C10.0

DIVISION OF ENGINEERING
LIFT STATION DETAILS
LOCATION: 360 NORTH HIGHLAND
MEMPHIS, TENNESSEE
SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC DATE: 09/2022 SCALE: AS NOTED
REVIEWED BY: _____
DEVELOPER: SARP 10
ENGINEER: A2H, INC.
DATE _____

LIFT STATION REHAB DESIGN - GROUP 3

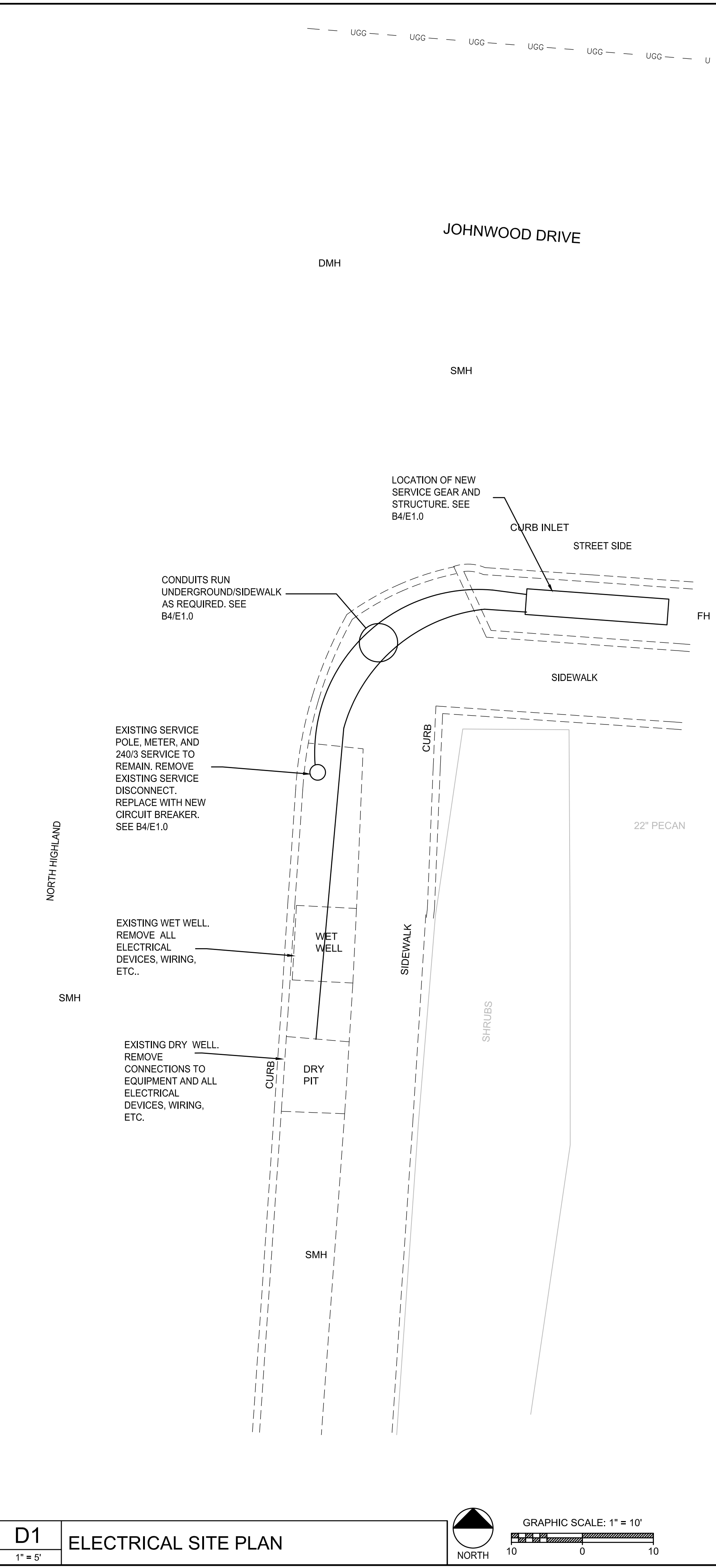
DEVELOPER: SARP 10
ENGINEER: A2H, INC.

CITY ENGINEER _____ DATE _____

j:\a2h\2021\0917\022\Civil\Prop\Highland Project\C10.0 - DETAILS.dwg
DATE: 09/22/2022 11:48:29 AM

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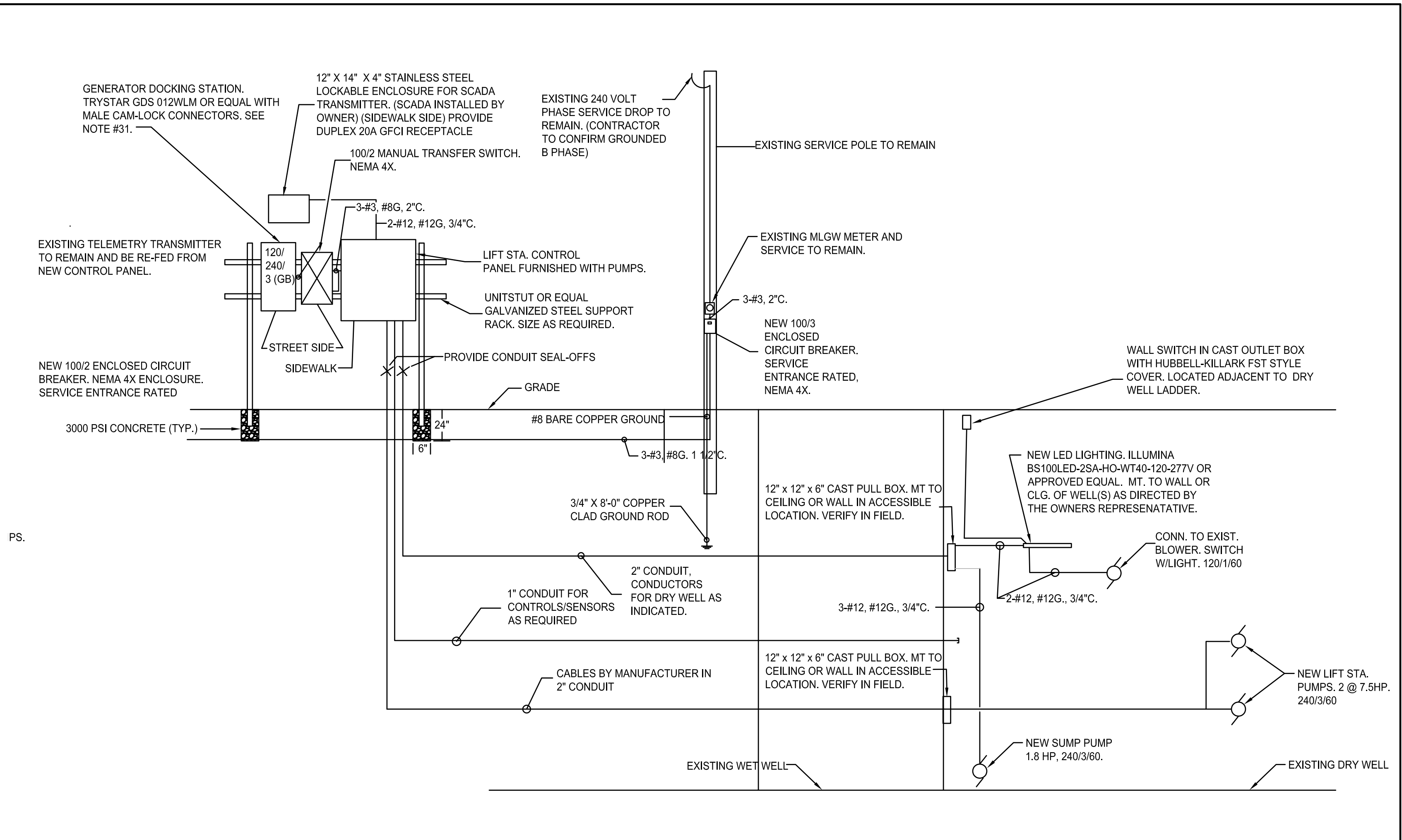
REVISED 01/17/2024 ElectricalPlan@HighlandHighland E1.0 - SITE PLAN.dwg
A2H, INC. 11/20/24



- ELECTRICAL GENERAL NOTES:**
- THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM INSTALLATION.
 - MATERIALS AND INSTALLATION SHALL COMPLY WITH ALL CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
 - ALL MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA, OR ANOTHER RECOGNIZED TESTING LABORATORY.
 - THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, INSPECTIONS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK.
 - ALL FEES ASSESSED BY MEMPHIS LIGHT, GAS, AND WATER DIVISION IN CONNECTION WITH THE NEW SERVICE WILL BE PAID BY THE OWNER DIRECTLY TO MLGW.
 - THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES, UTILITY COMPANIES, AND LOCAL CODE OFFICIALS, SHOP DRAWINGS AND/OR INSTALLATION DETAILS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.
 - THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES, OR REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.
 - ALL NEW ELECTRICAL WORK OR MODIFICATIONS TO EXISTING ELECTRICAL DISTRIBUTION PANELS, PANELBOARDS, ETC. SHALL BE INSTALLED AS INDICATED ON THE ELECTRICAL CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT TO BE INSTALLED INDICATING ELEVATIONS AND ALL DIMENSIONS FOR APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION. CODE REQUIRED CLEARANCES IN FRONT OF ALL ELECTRICAL EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.
 - THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, MAKE A SCHEDULED ARRANGEMENT WITH THE PROJECT MANAGER TO VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND WIRING FOR THE PERFORMANCE OF ALL TRADES. FOR THE ENTIRE PERIOD OF CONSTRUCTION AND SHALL REMOVE ALL TEMPORARY WIRING AT THE COMPLETION OF CONSTRUCTION. ALL COSTS FOR ESTABLISHING AND REMOVING TEMPORARY POWER SHALL BE INCLUDED IN BID.
 - THE EXISTING ELECTRICAL SYSTEMS ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE OWNERS EXISTING FUNCTIONS. SHOULD IT BECOME NECESSARY TO SHUT-DOWN ANY SYSTEM OR PORTION OF A SYSTEM, APPROVAL IN WRITING MUST BE OBTAINED FROM THE PROJECT MANAGER AND SHALL BE ONLY FOR THE PERIOD AND TIME AGREED UPON. THE BID IS TO INCLUDE THE COST OF ANY TEMPORARY WIRING AND PREMIUM TIME REQUIRED FOR THE SHUT-DOWN. EXISTING ELECTRICAL WORK TO BE DEMOLISHED SHALL BE COORDINATED TO ALLOW MINIMUM DOWN-TIME OF THE STATION.
 - ALL MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, TOOLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
 - ALL CUTTING, DRILLING, AND PATCHING OF MASONRY, DRYWALL, CONCRETE, STEEL, OR IRON WORK BELONGING TO THE SITE SHALL BE DONE BY THIS CONTRACTOR IN ORDER THAT WORK MAY BE PROPERLY INSTALLED. UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ENGINEER OR THEIR REPRESENTATIVE. ALL PENETRATIONS SHALL BE SEALED WITH APPROVED MATERIAL.
 - SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS, AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT.
 - CONTRACTOR SHALL PROVIDE "AS-BUILT" DOCUMENTATION AND HARD COPY REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE PROJECT AND SUBMIT TO THE ARCHITECT AND THE ENGINEER. AS-BUILT DRAWINGS SHALL INDICATE EXACT CIRCUIT NUMBERS, LOCATIONS OF ALL DEVICES, CEILING FIXTURES, AND RACEWAY FOR LIGHTING, TELECOMMUNICATIONS AND POWER DISTRIBUTION SYSTEMS AS INSTALLED.
 - ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW AND OF COMMERCIAL GRADE UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED ON DRAWINGS.
 - EXCEPT AS NOTED OTHERWISE, ALL WORK REQUIRED FOR THE ELECTRICAL INSTALLATION AS SHOWN ON DRAWINGS SHALL INCLUDE ALL LABOR, INSTALLATION METHODS, EQUIPMENT, AND MATERIALS AND SHALL BE IN STRICT COMPLIANCE WITH ALL BUILDING STANDARDS.
 - PROVIDE A COMPLETE METAL RACEWAY SYSTEM, FITTINGS AND ENCLOSURES FOR ALL ELECTRICAL WIRING SYSTEMS TO BE INSTALLED FOR THE PROJECT.
 - MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH. ALL CONDUIT SHALL BE GALVANIZED RIGID STEEL WITH APPROPRIATE FITTINGS AND CAST BOXES WHERE REQUIRED.
 - WIRE NUMBER 8 AND SMALLER FOR USE IN INTERIOR DRY LOCATIONS SHALL BE TYPE THWN THERMOPLASTIC 600 VOLT INSULATED COPPER CONDUCTORS. FEEDERS AND POWER WIRING NUMBER 8 AND LARGER SHALL BE TYPE THW 600 VOLT INSULATED COPPER WIRE WHICH IS INSTALLED IN RACEWAY IN MOIST OR DAMP LOCATIONS SHALL BE THW 600 VOLT INSULATED COPPER CONDUCTORS. NO WIRE SMALLER THAN NUMBER 12 AWG SHALL BE USED FOR LIGHTING OR POWER.
 - THE CONTRACTOR SHALL PROVIDE A NEW TYPEWRITTEN PANEL DIRECTORY FOR EACH PANEL AT THE COMPLETION OF THE PROJECT. EACH CIRCUIT BREAKER SHALL BE LABELLED TO IDENTIFY LOAD TYPE AND LOCATION.
 - PERFORM ALL WORK OF A DEMOLITION NATURE THAT MAY BE REQUIRED OR NECESSARY FOR THE FULL AND COMPLETE EXECUTION OF THE WORK, WHETHER EXPLICITLY SHOWN AND/OR SPECIFIED OR NOT. EXACT EXTENT OF DEMOLITION WILL NOT BE FULLY INDICATED BY DRAWINGS. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE CONTRACT DOCUMENTS WITH ARCHITECTURAL AND DEMOLITION DRAWINGS TO EXISTING CONDITIONS. ELECTRICAL EQUIPMENT WHICH WILL NOT BE REUSED SHALL BE TURNED OVER TO THE OWNER OR REMOVED FROM THE PREMISES AS DETERMINED BY THE PROJECT MANAGER.
 - ANY EXISTING ELECTRICAL MATERIAL AND EQUIPMENT WHICH INTERFERES WITH THE NEW WORK SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR. VERIFY REMOVAL AND NEW LOCATION OF EQUIPMENT WITH THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER PRIOR TO WORK.
 - VERIFY CLEARANCES FOR ALL NEW OR EXISTING RELOCATED ELECTRICAL WORK BEFORE PROCEEDING WITH CONSTRUCTION. COORDINATE USAGE OF AVAILABLE SPACE WITH ALL TRADES. IN THE EVENT OF CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS, WHERE MORE STRINGENT REQUIREMENTS THAN THOSE DESCRIBED HEREIN OR AS SET FORTH UNDER CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION, THOSE GREATER REQUIREMENTS SHALL BE ADHERED TO.
 - EXISTING CONDITIONS OF ALL EXISTING BUILDING EQUIPMENT, DEVICES, FIXTURES, AND SYSTEMS THAT REQUIRE REWIRING, REUSE, RELOCATION, OR REFURBISHING AS PER DRAWINGS AND SPECIFICATIONS SHALL BE FIELD VERIFIED BY THE E.C. PRIOR TO COMMENCEMENT OF ANY WORK TO BE COMPLETELY OPERATIONAL. E.C. SHALL SUBMIT A WRITTEN STATEMENT AND ITEMIZED LISTING OF ALL EXISTING CONDITIONS OF THE FOLLOWING, ALTHOUGH NOT LIMITED TO THOSE LISTED:

THE WRITTEN STATEMENT SHALL BE SUBMITTED TO THE PROJECT MGR. PRIOR TO WORK. IN THE EVENT THAT THE CONTRACTOR COMMENCES WORK WITHOUT SUBMITTAL, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND COST TO MAINTAIN THE ABOVE IN GOOD WORKING ORDER AND CONDITION.
 - CONTRACTOR SHALL REFER TO CIVIL ENGINEERING DRAWINGS FOR EXACT LOCATIONS OF ALL NEW EQUIPMENT.
 - GENERATOR CONNECTION BOX SHALL BE PROVIDED WITH ENGRAVED IDENTIFICATION PLAQUE (RED/WHITE LETTERS) WITH VOLTAGE AND PHASE CONFIGURATION OF STATION AS INDICATED. LETTERS TO BE 3" IN HEIGHT. NAMEPLATE SCREWED TO BOX USING STAINLESS STEEL SCREWS.

D3
NTS
ELECTRICAL GENERAL NOTES



B4
NTS
ELECTRICAL RISER DIAGRAM

BM #304 HIGHLAND ST. & MIMOSA AVE.
CITY MONUMENT IS LOCATED ON THE NE COR., AT BACK OF SWALK P.I.
301.08

THE PROJECT AREA IS LOCATED IN ZONE X AREA PER FLOOD INSURANCE RATE MAP 47157C0290F, DATED SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE

SEWER BASIN ID: WS04-2
SHEET ___ OF ___

DIVISION OF ENGINEERING
ELECTRICAL SITE PLAN
LOCATION: 360 NORTH HIGHLAND
MEMPHIS, TENNESSEE

SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC DATE: 09/2022 SCALE: AS NOTED

REVIEWED BY: _____ DATE: _____

LIFT STATION REHAB DESIGN - GROUP 3

DEVELOPER: SARP 10
ENGINEER: A2H, INC.

DWG NO. **E1.0**

8/5/2024

STATE OF TENNESSEE
No. 107695

D1
1" = 5'
ELECTRICAL SITE PLAN

LIFT STATION IMPROVEMENTS

For

1217 MEADOWLARK

SEWER ASSESSMENT & REHABILITATION PROGRAM (SARP 10)
CITY OF MEMPHIS, TN

CONSTRUCTION DRAWINGS
AUGUST 5, 2024



VICINITY MAP
SCALE: 1" = 1000'

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\\mem\02012117\2024\Civil\Projects\Meadowlark\Project\010 - COVER.dwg
AUG 2024 - 11:20am
RTO SCALE: 1"=1000'

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GENERAL NOTES

- ALL DESIGN, CONSTRUCTION AND MATERIAL SHALL BE IN COMPLIANCE WITH THE SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10) AND CITY OF MEMPHIS CONSTRUCTION SPECIFICATIONS AND STANDARDS.
- THE CONTRACTOR SHALL NOT ENTER UPON, WORK UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT PRIOR PERMISSION FROM SAID PROPERTY OWNER.
- GRADING AND DRAINAGE: FINISH GRADE SHALL BE SLOPED FOR POSITIVE DRAINAGE.
- 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.
- ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- THE LOCATION OF ALL EXISTING UTILITIES SHALL BE PROPERLY VERIFIED PRIOR TO CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN A MANNER TO ENSURE THAT EXISTING UTILITIES ARE NOT INTERFERED WITH OR DISRUPTED.
- THE CONTRACTOR IS TO INSTALL EROSION AND SEDIMENT CONTROL SYSTEMS AND STRUCTURES AS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR AND SHALL PAY FOR ALL SURVEY LAYOUT AND STAKING.

CITY OF MEMPHIS TYPICAL CONSTRUCTION NOTES

- LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THE 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, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-636-8025.
- 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 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.

DEMOLITION NOTES

- ALL PUMPS, MOTORS, ETC. REMOVED SHALL BE RETURNED TO MEMPHIS WTC3 DEPARTMENT. CONTACT JAMES GREENLEE @ 901-626-0237

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 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.

- MANHOLES LOCATED WITHIN THE 100-YEAR FLOODPLAIN SHOULD EXTEND A MINIMUM OF 12" (1'-0") ABOVE THE 100-YEAR FLOOD LEVEL IRREGARDLESS OF WHETHER THE MANHOLE IS ON RESIDENTIAL, COMMERCIAL, OR RURAL PROPERTY. A MANHOLE LOCATED WITHIN THE 100-YEAR FLOOD PLAIN MUST HAVE A SEALED COVER AND VENT STACK IF IT EXTENDS LESS THAN THE MINIMUM 12" ABOVE THE 100-YEAR FLOOD LEVEL. WITHIN THIS ALTERNATIVE THE VENT STACKS COULD BE LIMITED TO EVERY OTHER MANHOLE IF LOCATED WITHIN A RESIDENTIAL AREA.
- LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE AND MAY BE NOT ALL-INCLUSIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITY COMPANIES TO DETERMINE EXACT LOCATION OF ALL UTILITIES.
- THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITIES PRIOR TO SUBMITTING HIS BID. IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF THE WORK FOR THE PROJECT, SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED "AROUND" UTILITY FACILITIES THAT WILL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR WILL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY THE UTILITY ADJUSTMENTS.
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

B1
NTS
GENERAL NOTES

B3
NTS
SEWER CONSTRUCTION NOTES

CIVIL	
Sheet Number	Sheet Name
G0.0	COVER
C0.0	GENERAL NOTES
C2.0	SITE PLAN
C6.0	LIFT STATION EXISTING CONDITIONS
C6.1	LIFT STATION SECTION
C7.0	TRAFFIC CONTROL PLAN
C7.1	TRAFFIC CONTROL PLAN
C10.0	LIFT STATION DETAILS
E1.0	ELECTRICAL SITE PLAN

C1
NTS
SHEET INDEX

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 w/ CONIC BASE
⊠	POWER POLE w/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 SPRINKLER
⊭	PEDESTRIAN LIGHT
⊮	BACKFLOW PREVENTER
⊯	ROOFDRAIN/DOWNSPOUT

D1
NTS
SYMBOL LEGEND

BM #196 ELVIS PRESLEY BLVD. & McCLURE RD.
CITY MONUMENT IS LOCATED ON THE SW COR., AT B/CURB
ER ON ELVIS PRESLEY SIDE.
298.81

THE PROJECT AREA IS LOCATED IN ZONE X AREA PER
FLOOD INSURANCE RATE MAP 47157C0420F, DATED
SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE
FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH
AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH
DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS
PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

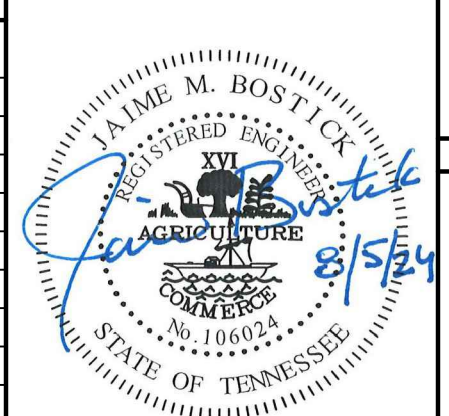


CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE

LIFT STATION REHAB DESIGN - GROUP 3

DEVELOPER: SARP 10
ENGINEER: A2H, INC.



SEWER BASIN ID: NS05
SHEET ___ OF ___

C0.0

DIVISION OF ENGINEERING
GENERAL NOTES

LOCATION: 1217 MEADOWLARK LANE
MEMPHIS, TENNESSEE

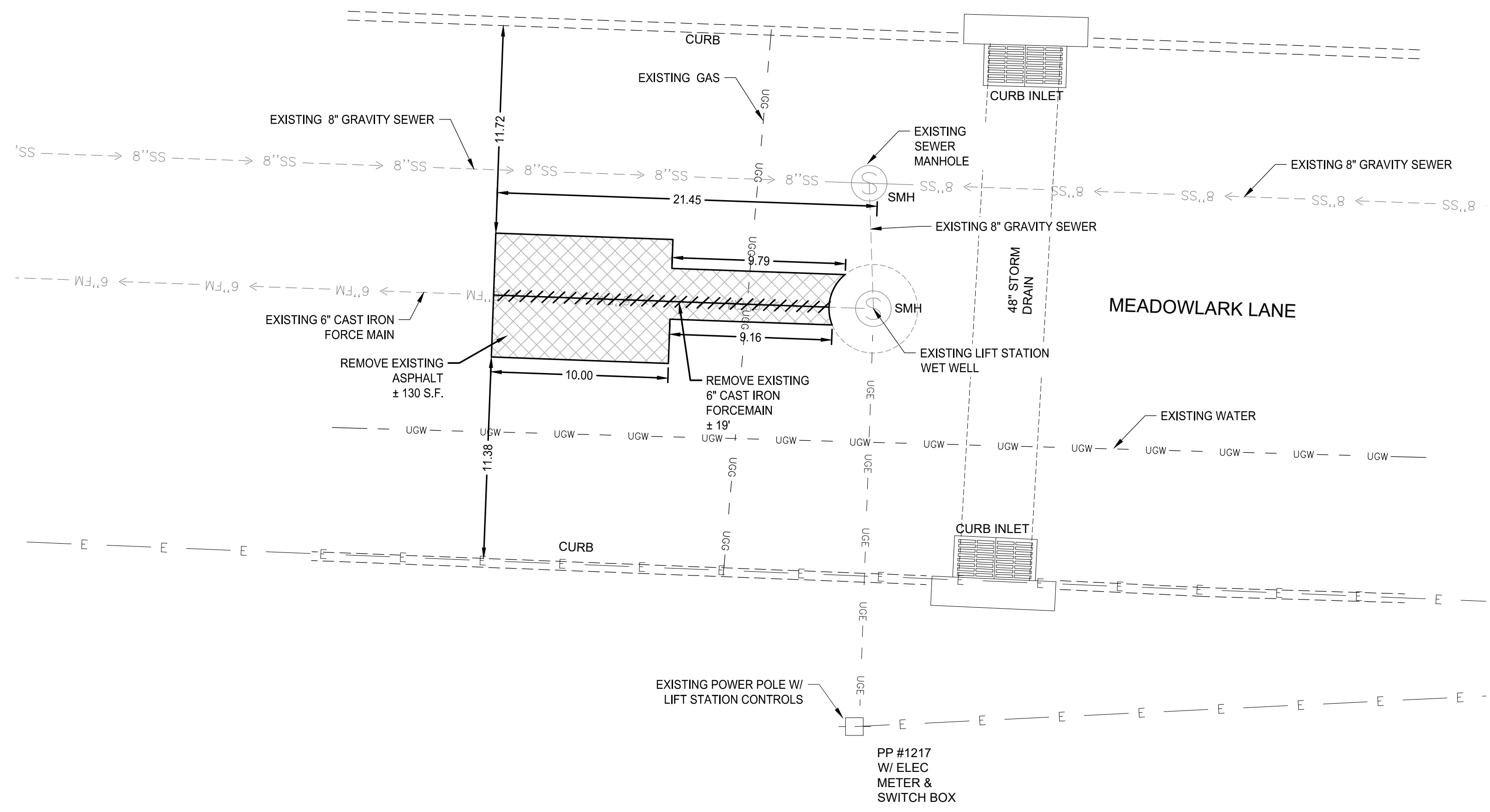
SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC DATE: 05/2024 SCALE: AS NOTED

REVIEWED BY: _____ DATE: _____

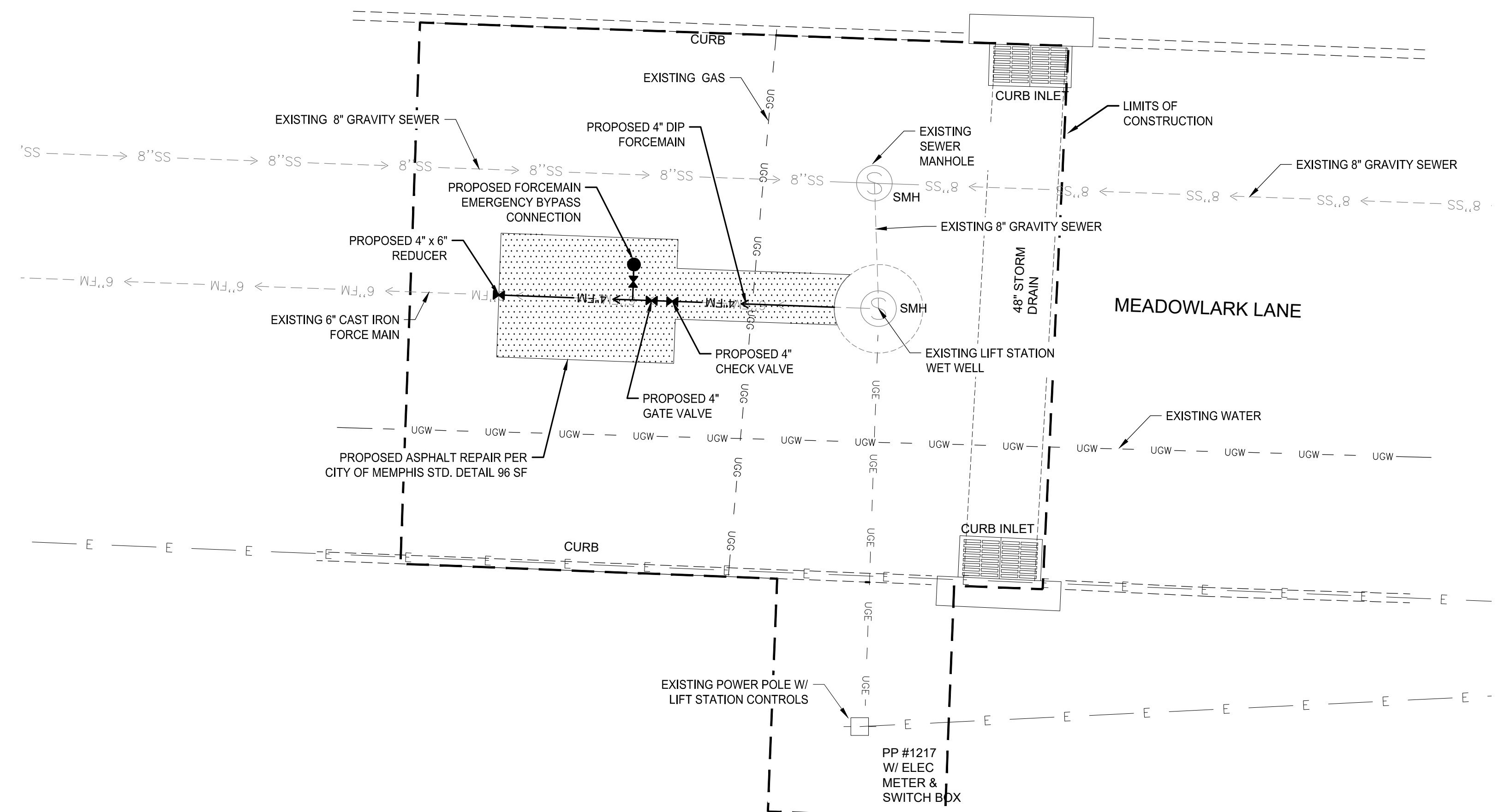
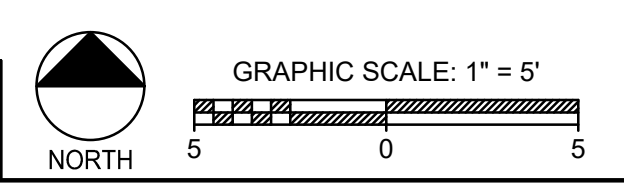
CITY ENGINEER _____ DATE _____

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DATE PLOTTED: 05/24/2024 11:13:28 AM

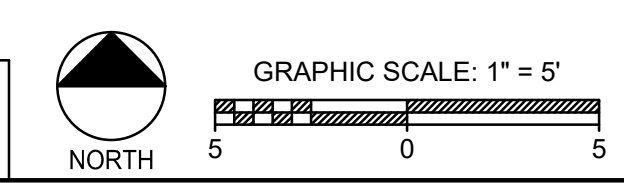
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C1 EXISTING CONDITION
1" = 5'



C4 SITE PLAN
NTS



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05/24/2024 11:52:41 AM

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 EVIDENCED 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.

BM #196 ELVIS PRESLEY BLVD. & McCLURE RD.
CITY MONUMENT IS LOCATED ON THE SW COR., AT B/CURB ER ON ELVIS PRESLEY SIDE.
298.81

THE PROJECT AREA IS LOCATED IN ZONE X AREA PER FLOOD INSURANCE RATE MAP 47157C0420F, DATED SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

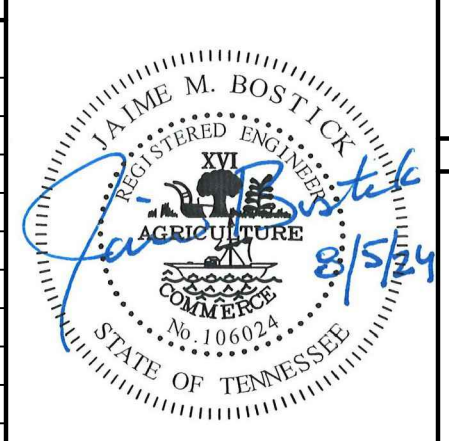


CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE

LIFT STATION REHAB DESIGN - GROUP 3

DEVELOPER: SARP 10
ENGINEER: A2H, INC.



DWG NO. **C2.0**

SEWER BASIN ID: NS05
SHEET ___ OF ___

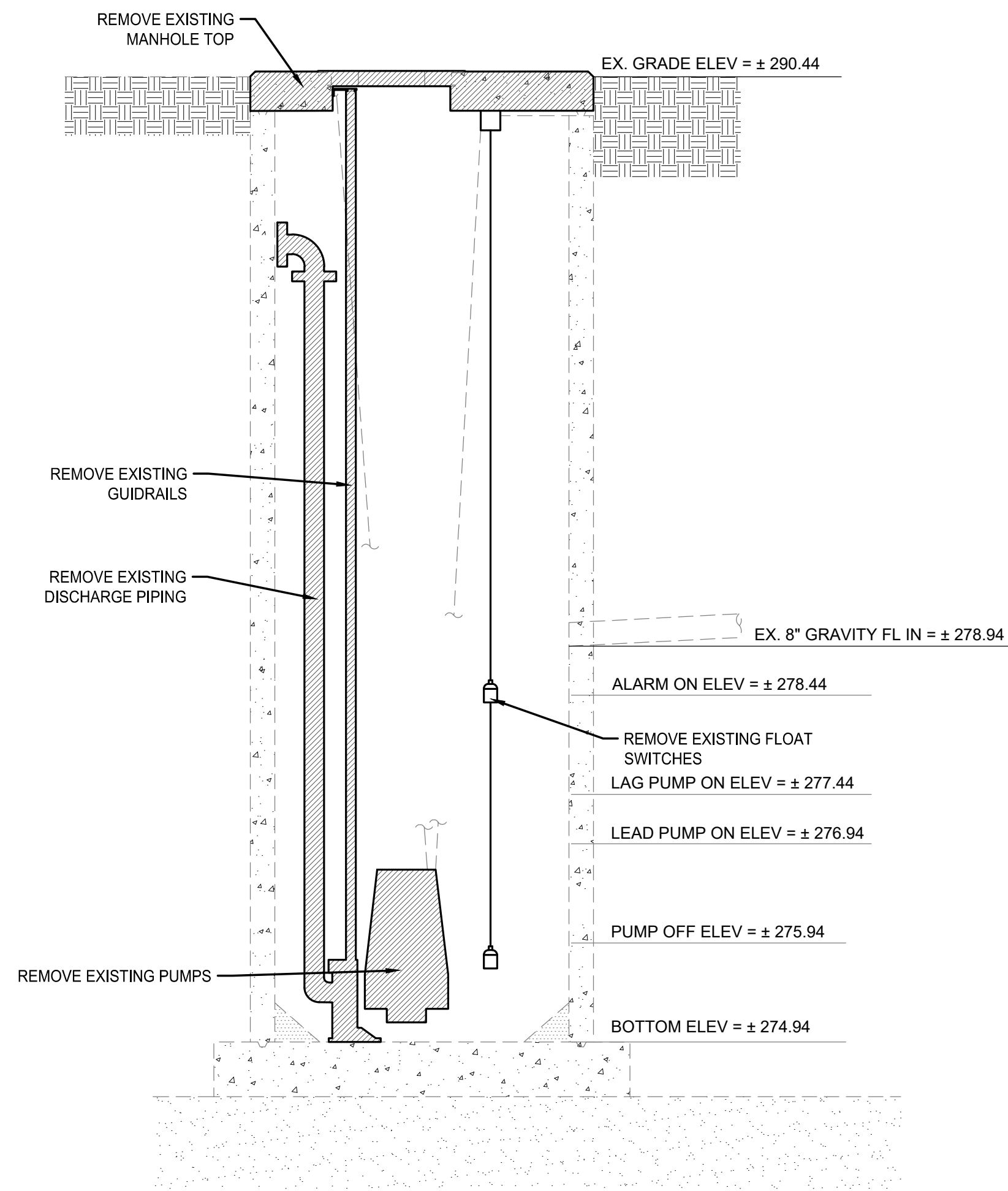
DIVISION OF ENGINEERING
SITE PLAN

LOCATION: 1217 MEADOWLARK LANE
MEMPHIS, TENNESSEE

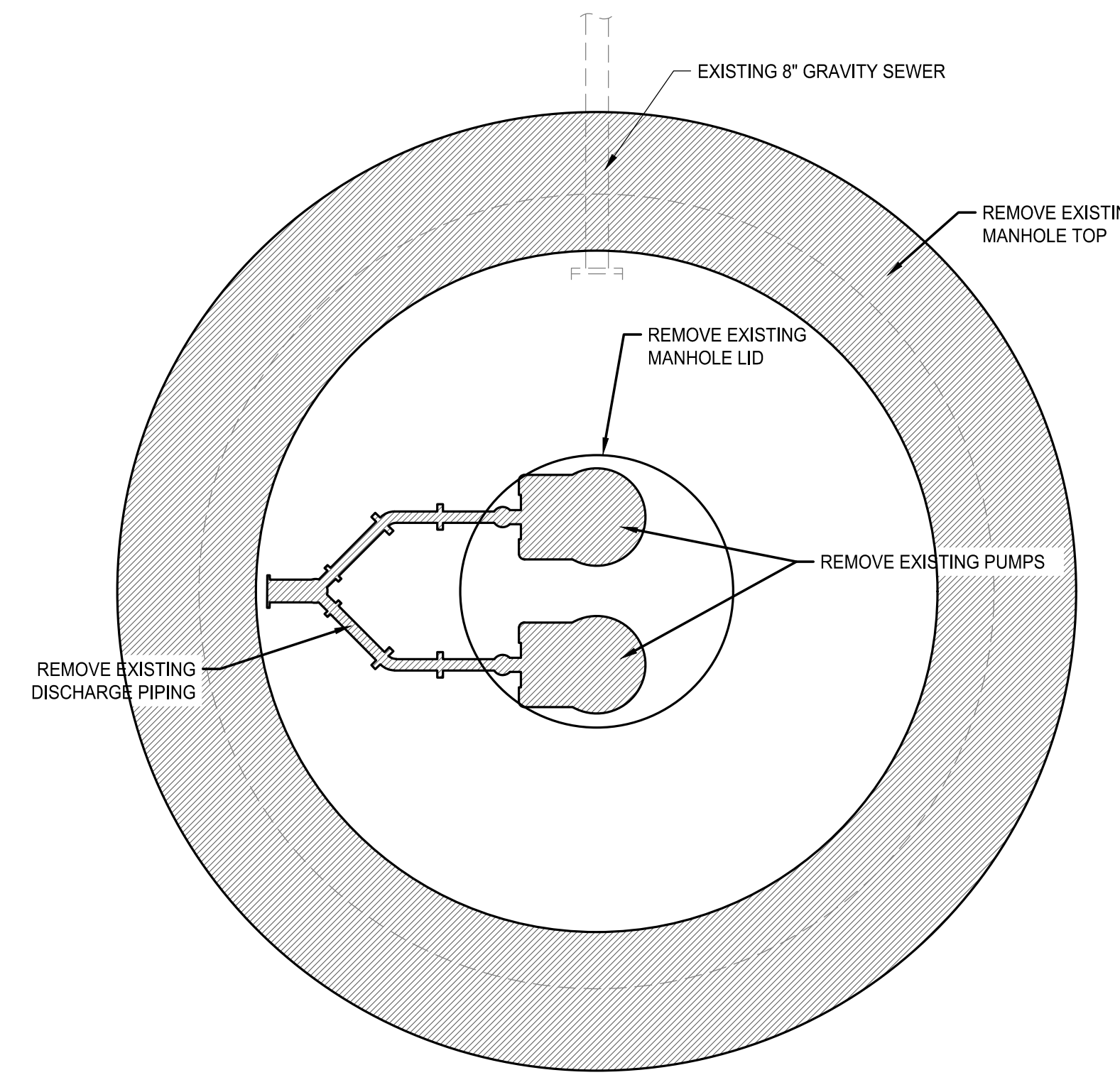
SURVEY: A2H, INC. DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC. DATE: 05/2024 SCALE: AS NOTED

REVIEWED BY: _____
CITY ENGINEER _____ DATE _____

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LIFT STATION ELEVATION



LIFT STATION PLAN

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DATE: 04-10-2024 11:52:24

D1
NTS
LIFT STATION DEMO PLAN



RECORD DRAWINGS PROVIDED BY THE CITY OF MEMPHIS
TITLED: MEADOWLARK DR. PLAN AND PROFILE
FROM MEADOWLARK DR. TO WHITE OAK DR.
SHEET 1 OF 1
DATED: 04-10-58

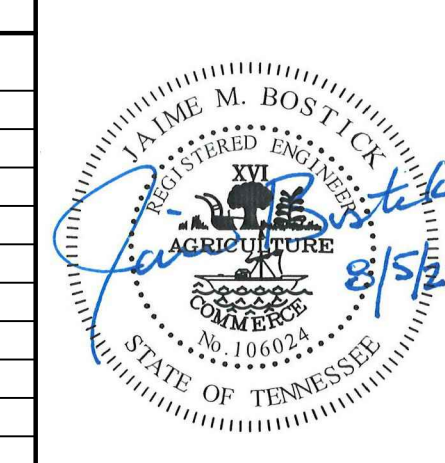
BM #196 ELVIS PRESLEY BLVD. & McCLURE RD.
CITY MONUMENT IS LOCATED ON THE SW COR., AT B/CURB
ER ON ELVIS PRESLEY SIDE.
298.81

THE PROJECT AREA IS LOCATED IN ZONE X AREA PER
FLOOD INSURANCE RATE MAP 47157C0420F, DATED
SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE
FLOOD: AREAS OF 1% ANNUAL CHANCE FLOOD WITH
AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH
DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS
PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE



SEWER BASIN ID: NS05
SHEET ___ OF ___

DWG NO.
C6.0

DIVISION OF ENGINEERING
LIFT STATION EXISTING CONDITIONS
LOCATION: 1217 MEADOWLARK LANE
MEMPHIS, TENNESSEE

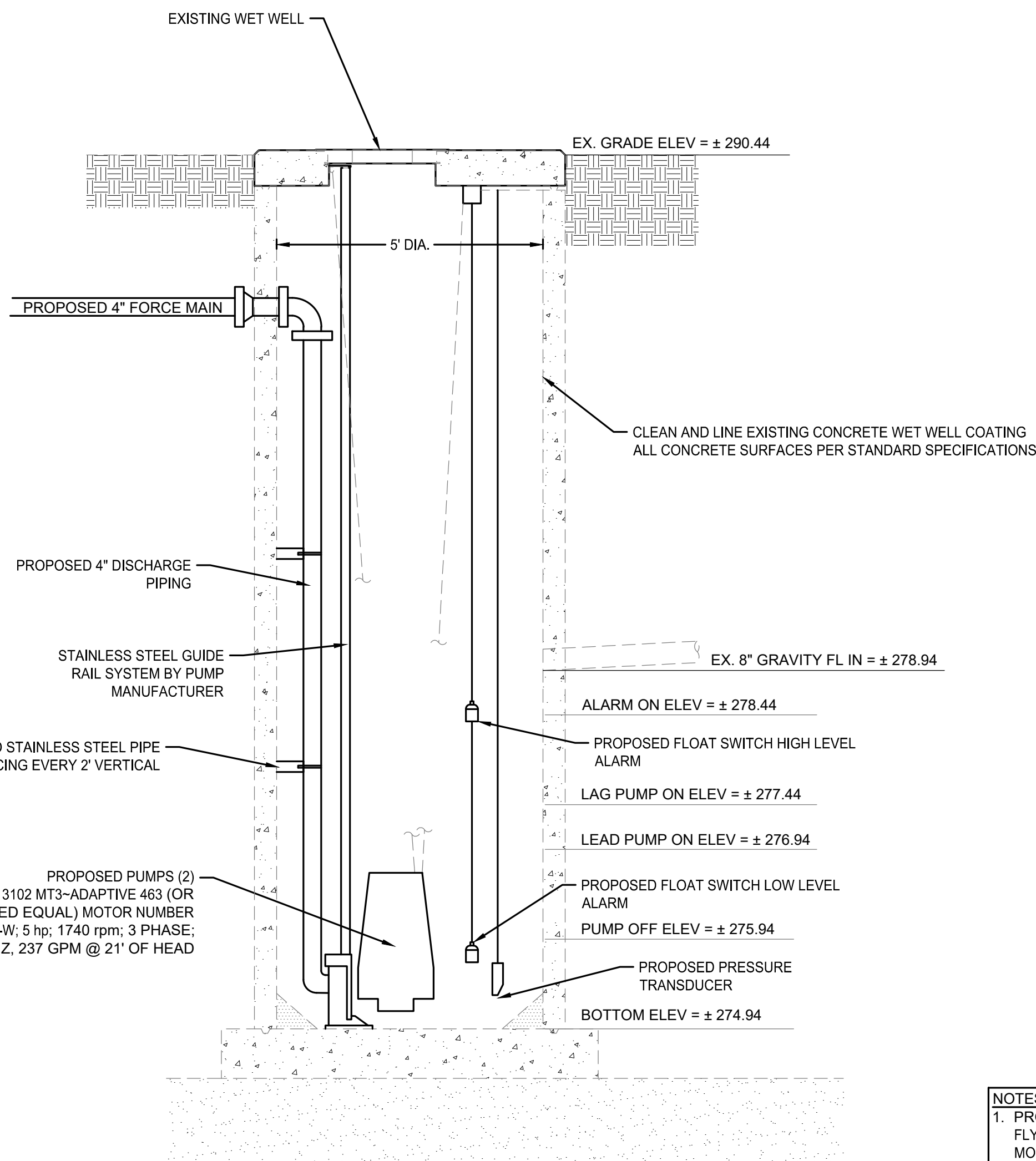
SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC DATE: 05/2024 SCALE: AS NOTED

LIFT STATION REHAB DESIGN - GROUP 3
DEVELOPER: SARP 10
ENGINEER: A2H, INC.

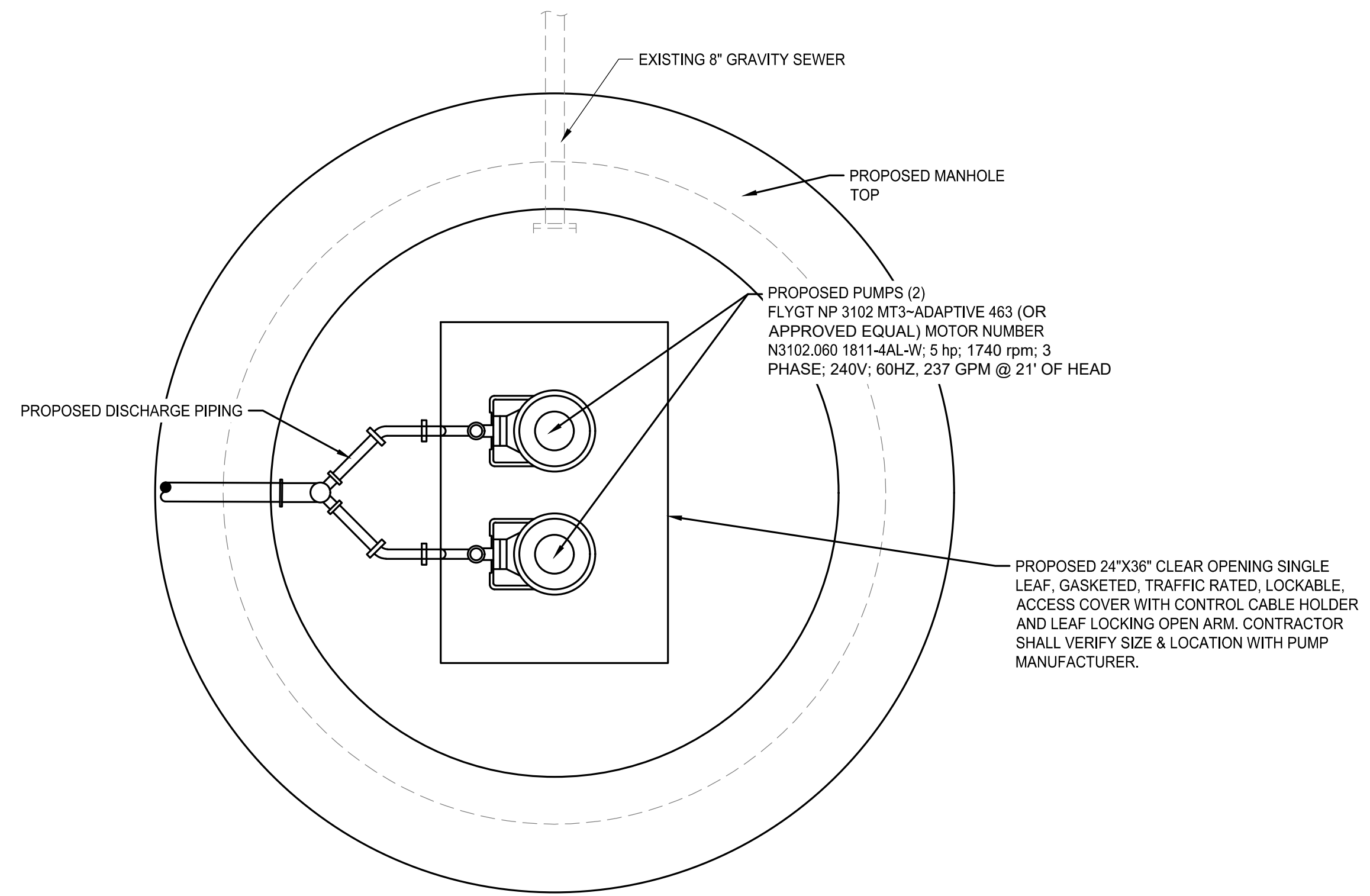
REVIEWED BY: _____
CITY ENGINEER _____ DATE _____

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DATE: 05/24/2024 11:52:28 AM



LIFT STATION ELEVATION



LIFT STATION PLAN

NOTES:
 1. PROPOSED PUMPS SHALL BE:
 FLYGT NP 3102 MT3-ADAPTIVE 463 (OR APPROVED EQUAL)
 MOTOR NUMBER N3102.060 1811-4AL-W; 5 hp; 1740 rpm;
 3 PHASE; 240V; 60HZ
 237 GPM @ 21' OF HEAD
 2. EXISTING FLOAT SYSTEM SHALL BE REMOVED AND REPLACED WITH PRESSURE TRANSDUCERS OR FLOATS.
 3. ALL PROPOSED PIPING TO BE DIP
 4. EXISTING ELEVATIONS AT TOP AND BOTTOM OF WET WELL TAKEN FROM "1217 MEADOWLARK LANE LIFT STATION ASSESSMENT REPORT" DATED SEPTEMBER 20, 2016. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION

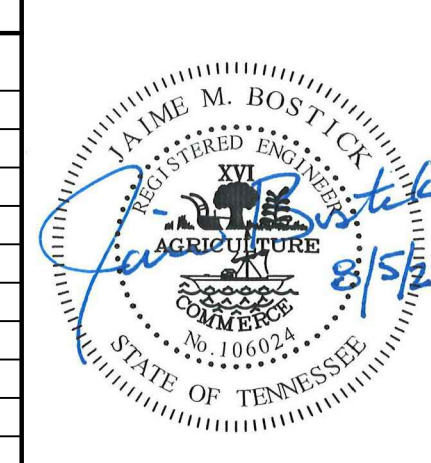
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CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE



SEWER BASIN ID: NS05
 SHEET OF

C6.1

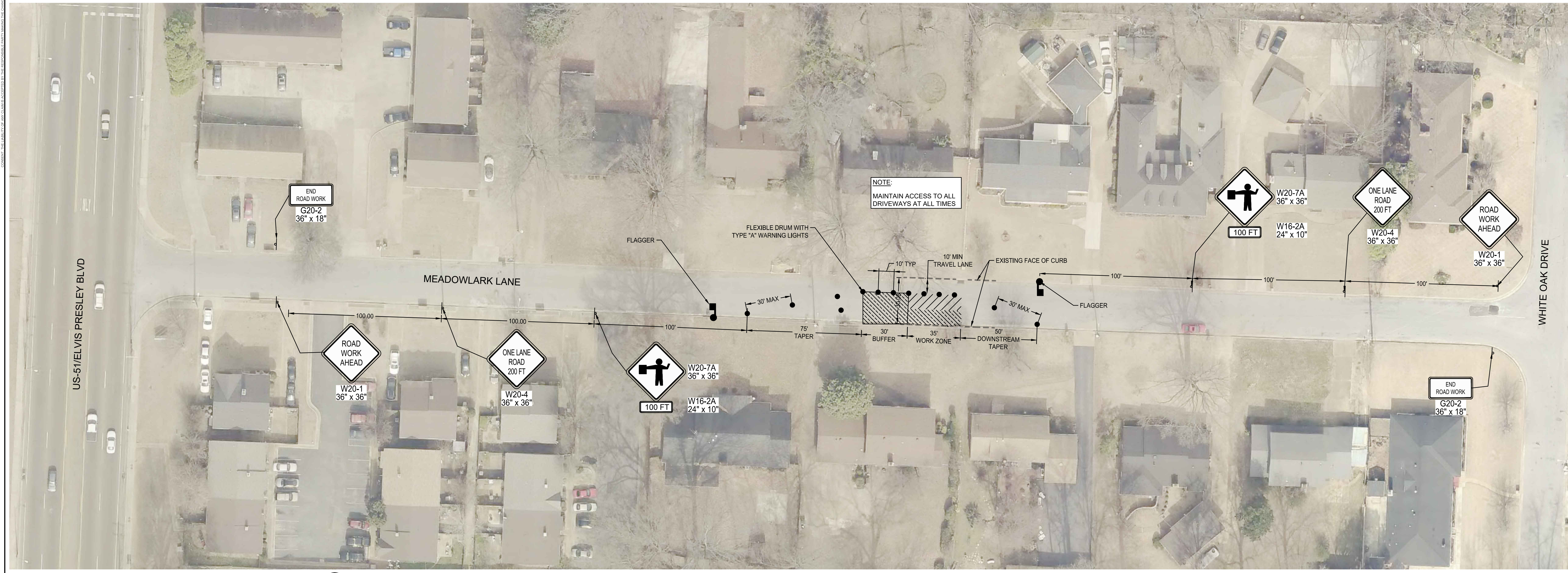
DIVISION OF ENGINEERING
LIFT STATION ELEVATION
 LOCATION: 1217 MEADOWLARK LANE
 MEMPHIS, TENNESSEE

SURVEY BY: A2H, INC. DATE: 08/2021 PROJECT: 21117.02
 DESIGN BY: A2H, INC. DATE: 05/2024 SCALE: AS NOTED
 REVIEWED BY: _____

DEVELOPER: SARP 10
 ENGINEER: A2H, INC.

CITY ENGINEER _____ DATE _____

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B1 DAYTIME TRAFFIC CONTROL PLAN

1" = 30'

GRAPHIC SCALE: 1" = 30'

30 0 30

NORTH

- 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 BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION DEPARTMENT (901-636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (901-636-6710) A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTATION A TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS.
- SIZES OF ALL SIGNS SHALL COMPLY WITH THE 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 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 STREETS, DRIVEWAY ACCESS, AND BICYCLING AND 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.
- THE CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "A" WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
- THE 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.
- DURING CONSTRUCTION, ONE 10' TRAFFIC LANE SHALL REMAIN OPEN AT ALL TIMES.
- ONLY ONE PHASE OF THE TRAFFIC CONTROL PLAN 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.
- 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.
- 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.
- 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 COVERED OR REMOVED DURING CONSTRUCTION.
- 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 PERFORMED TAPE.
- 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 AND APPROVED BY THE CITY ENGINEER'S OFFICE.
- ANY CLOSURE OF THE RIGHT OF WAY SHALL BE TIME LIMITED TO THE ACTIVE 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 (901-636-2462) ON THE JOB.

THIS TRAFFIC CONTROL PLAN FOR DAYTIME USE ONLY. FOR NIGHT TIME TRAFFIC CONTROL PLAN, SEE PAGE C7.1.

C3 LEGEND

NTS

- WORK ZONE
- BUFFER ZONE
- SIGN
- 36" DRUM w/ TYPE "A" WARNING LIGHTS
- FLAGGER

C5 CHANNELIZING DRUM

NTS

D1 TRAFFIC CONTROL PLAN NOTES PHASE 1 OF 1

NTS

C3 LEGEND

NTS

BM #196 ELVIS PRESLEY BLVD. & McCLURE RD.
CITY MONUMENT IS LOCATED ON THE SW COR., AT B/CURB
ER ON ELVIS PRESLEY SIDE.
298.81

THE PROJECT AREA IS LOCATED IN ZONE X AREA PER
FLOOD INSURANCE RATE MAP 47157C0420F, DATED
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FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH
AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH
DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS
PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

A2H
ENGINEERS - ARCHITECTS - PLANNERS
3009 Davies Plantation Road
Lakeland, TN 38002
901.372.0404
www.A2H.com

C5 CHANNELIZING DRUM

NTS

PROJECT DURATION = 4 WEEKS
DESIGN SPEED = 30 MPH

SEWER BASIN ID: NS05
SHEET 1 OF 2

C7.0

DIVISION OF ENGINEERING
TRAFFIC CONTROL PLAN
LOCATION: 1217 MEADOWLARK LANE
MEMPHIS, TENNESSEE

SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC DATE: 05/2024 SCALE: AS NOTED
REVIEWED BY:

DEVELOPER: SARP 10
ENGINEER: A2H, INC.

CITY ENGINEER DATE

CONSTRUCTION DOCUMENTS

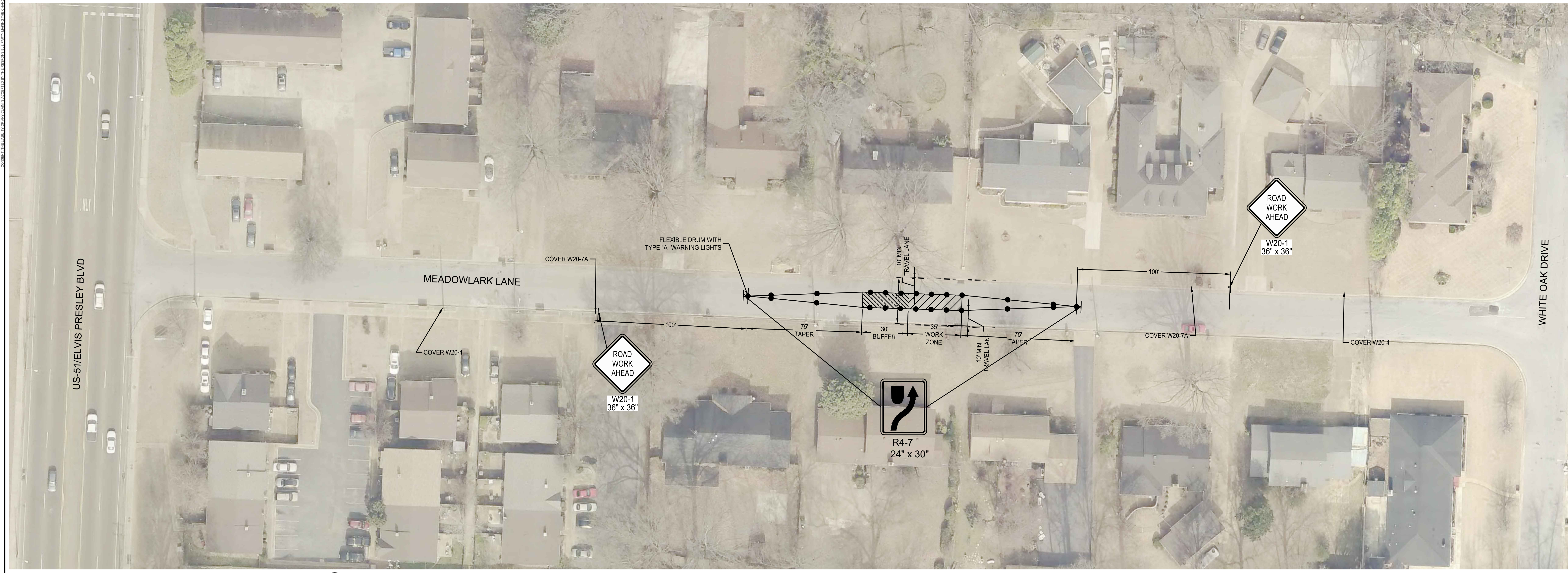
REVISIONS

ITEM NO.	DESCRIPTION	DATE

LIFT STATION REHAB DESIGN - GROUP 3

STATE OF TENNESSEE
TIMOTHY M. BOSTICK
REGISTERED PROFESSIONAL ENGINEER
No. 106924
08/15/24

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B1 NIGHTTIME TRAFFIC CONTROL PLAN
1" = 30'

GRAPHIC SCALE: 1" = 30'

30 0 30

NORTH

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THIS TRAFFIC CONTROL PLAN FOR NIGHT TIME USE ONLY. FOR DAYTIME TRAFFIC CONTROL PLAN, SEE PAGE C7.0.

C3 LEGEND

NTS

- WORK ZONE
- BUFFER ZONE
- SIGN
- 36" DRUM w/ TYPE "A" WARNING LIGHTS
- FLAGGER

C5 CHANNELIZING DRUM

NTS

D1 TRAFFIC CONTROL PLAN NOTES PHASE 1 OF 1

NTS

C3 LEGEND

NTS

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www.A2H.com

CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE

LIFT STATION REHAB DESIGN - GROUP 3

DEVELOPER: SARP 10
ENGINEER: A2H, INC.

PROJECT DURATION = 4 WEEKS
DESIGN SPEED = 30 MPH

SEWER BASIN ID: NS05
SHEET 2 OF 2

C7.1

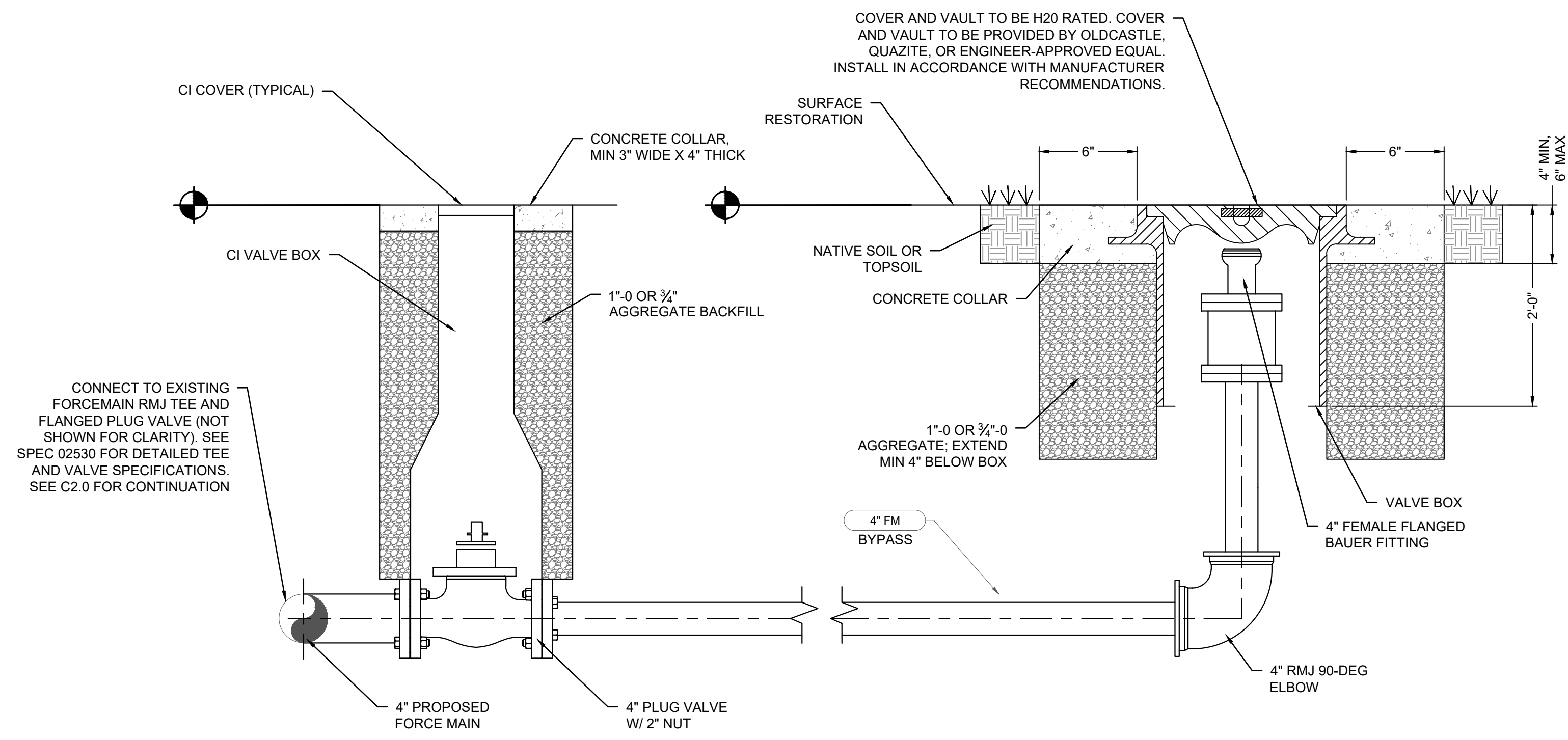
DIVISION OF ENGINEERING
TRAFFIC CONTROL PLAN
LOCATION: 1217 MEADOWLARK LANE
MEMPHIS, TENNESSEE

SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC DATE: 05/2024 SCALE: AS NOTED
REVIEWED BY:

CITY ENGINEER _____ DATE _____

J:\1117\2024\Drawings\Temp Traffic Control_S21117.02 - TCD - Meadowlark.dwg
05/20/24 11:17:02 AM
A2H, INC.

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B1
NTS
FORCE MAIN EMERGENCY BYPASS CONNECTION

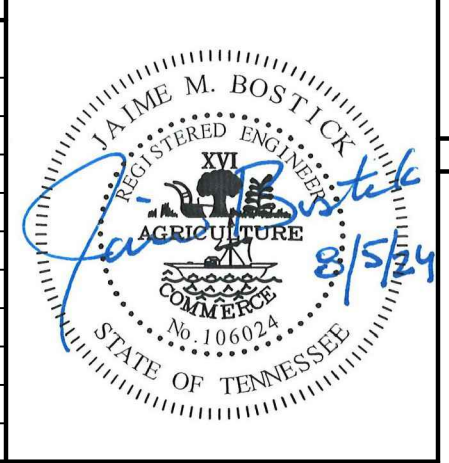
BM #196 ELVIS PRESLEY BLVD. & McCLURE RD.
CITY MONUMENT IS LOCATED ON THE SW COR., AT B/CURB
ER ON ELVIS PRESLEY SIDE.
298.81

THE PROJECT AREA IS LOCATED IN ZONE X AREA PER
FLOOD INSURANCE RATE MAP 47157C0420F, DATED
SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE
FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH
AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH
DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS
PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.



CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE



DWG NO. **C10.0**

SEWER BASIN ID: NS05
SHEET ___ OF ___

DIVISION OF ENGINEERING
LIFT STATION DETAILS
LOCATION: 1217 MEADOWLARK LANE
MEMPHIS, TENNESSEE

SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117.02
DESIGN BY: A2H, INC DATE: 05/2024 SCALE: AS NOTED
REVIEWED BY: _____

DEVELOPER: SARP 10
ENGINEER: A2H, INC. DATE: _____

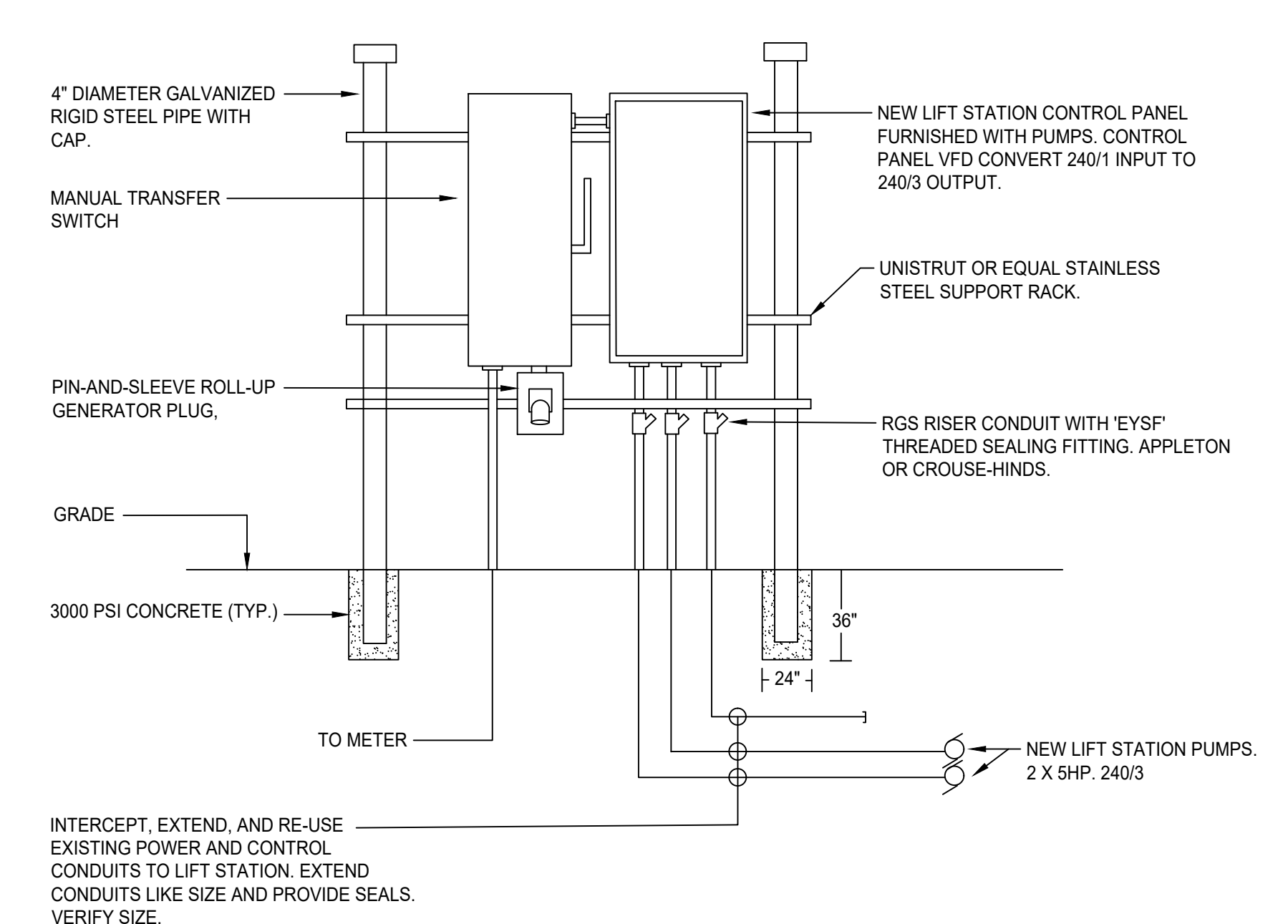
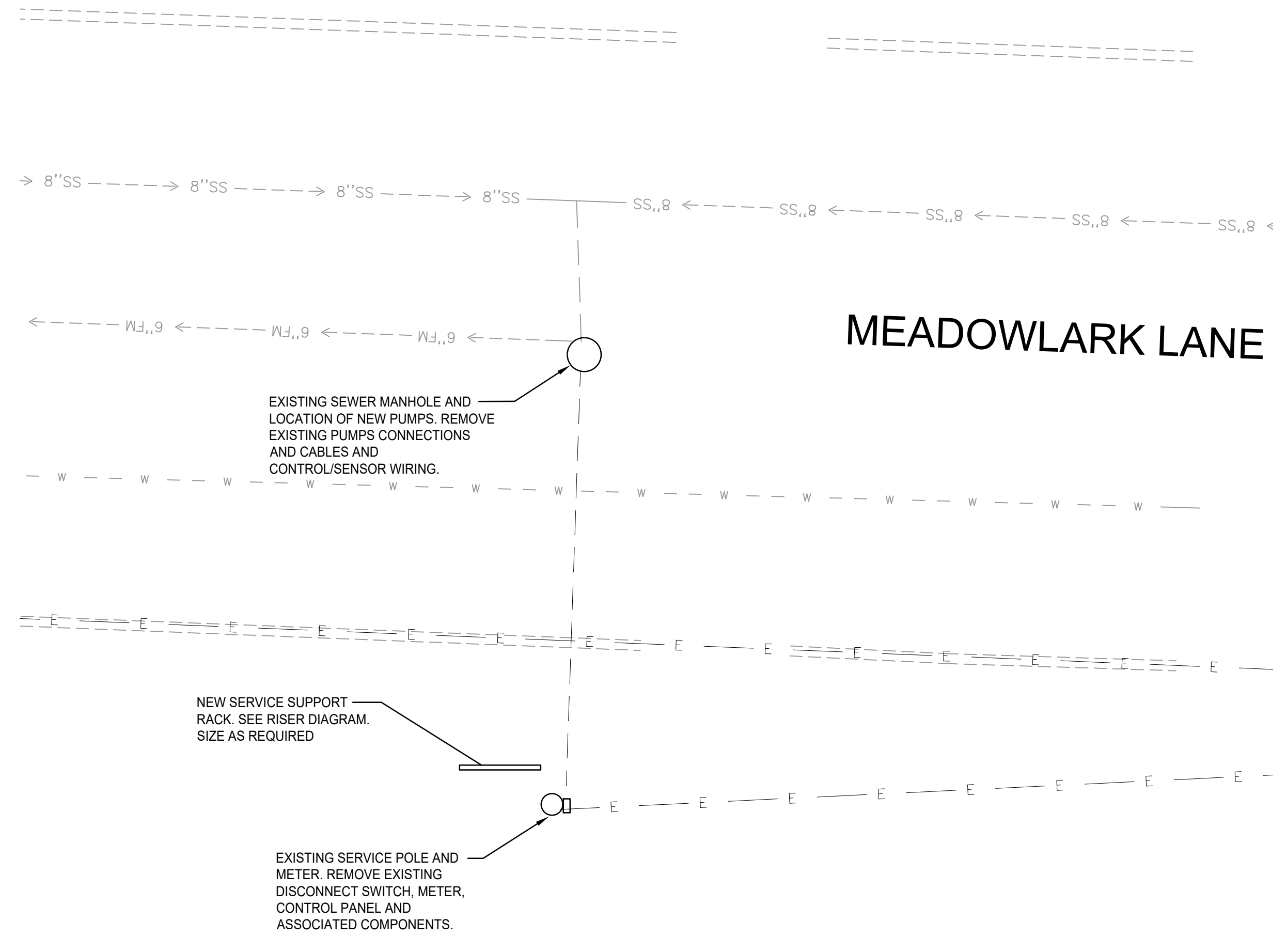
CITY ENGINEER _____ DATE _____

LIFT STATION REHAB DESIGN - GROUP 3

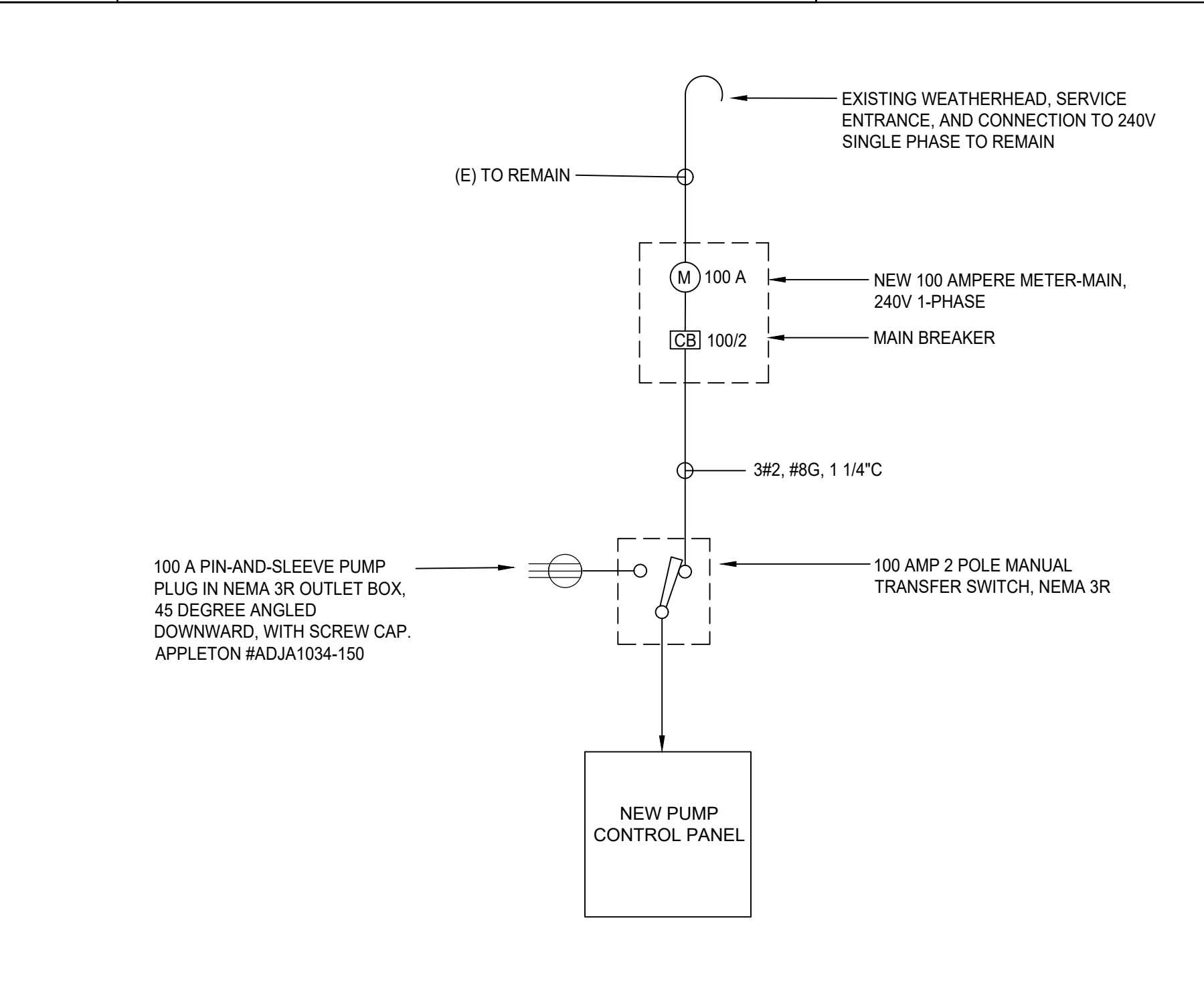
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NEW 10/20/2017/2021 Electrical/Proj/Design Meadowlark/MEADOWLARK E1 to SITE PLAN - OLD - NEW.dwg
A2H, INC. - 10/20/2017



B4 EQUIPMENT ELEVATION
1/2" = 1'-0"



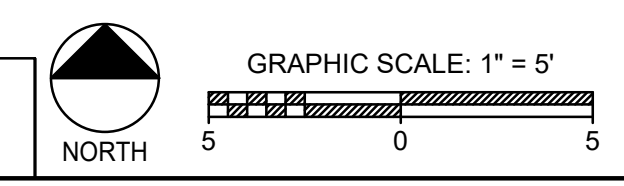
C4 ONE LINE DIAGRAM
NTS

- ELECTRICAL GENERAL NOTES:**
- PROVIDE LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM INSTALLATION.
 - MATERIALS AND INSTALLATION SHALL COMPLY WITH ALL CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
 - ALL MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA, OR ANOTHER RECOGNIZED TESTING LABORATORY.
 - SECURE AND PAY FOR ALL PERMITS, INSPECTIONS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK.
 - FEES ASSESSED BY MEMPHIS LIGHT, GAS, AND WATER DIVISION IN CONNECTION WITH THE NEW SERVICE WILL BE PAID BY THE OWNER DIRECTLY TO MLGW.
 - PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES, UTILITY COMPANIES, AND LOCAL CODE OFFICIALS. SHOP DRAWINGS AND/OR INSTALLATION DETAILS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.
 - THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES, OR REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.
 - ALL NEW ELECTRICAL WORK OR MODIFICATIONS TO EXISTING ELECTRICAL DISTRIBUTION PANELS, PANELBOARDS, ETC. SHALL BE INSTALLED AS INDICATED ON THE ELECTRICAL CONSTRUCTION DOCUMENTS. CONTRACTOR.
 - CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, MAKE A SCHEDULED ARRANGEMENT WITH THE PROJECT MANAGER TO VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
 - PROVIDE TEMPORARY POWER AND WIRING FOR THE PERFORMANCE OF ALL TRADES. FOR THE ENTIRE PERIOD OF CONSTRUCTION AND SHALL REMOVE ALL TEMPORARY WIRING AT THE COMPLETION OF CONSTRUCTION. ALL COSTS FOR ESTABLISHING AND REMOVING TEMPORARY POWER SHALL BE INCLUDED IN BID.
 - THE EXISTING ELECTRICAL SYSTEMS ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE OWNER'S EXISTING FUNCTIONS. SHOULD IT BECOME NECESSARY TO SHUT-DOWN ANY SYSTEM OR PORTION OF A SYSTEM, APPROVAL IN WRITING MUST BE OBTAINED FROM THE PROJECT MANAGER AND SHALL BE ONLY FOR THE PERIOD AND TIME AGREED UPON. THE BID IS TO INCLUDE THE COST OF ANY TEMPORARY WIRING AND PREMIUM TIME REQUIRED FOR THE SHUTDOWN. EXISTING ELECTRICAL WORK TO BE DEMOLISHED SHALL BE COORDINATED TO ALLOW MINIMUM DOWN-TIME OF THE STATION.
 - MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, TOOLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
 - CUTTING, DRILLING, AND PATCHING OF MASONRY, DRYWALL, CONCRETE, STEEL, OR IRON WORK BELONGING TO THE SITE SHALL BE DONE BY THIS CONTRACTOR IN ORDER THAT WORK MAY BE PROPERLY INSTALLED. UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ENGINEER OR THEIR REPRESENTATIVE. ALL PENETRATIONS SHALL BE SEALED WITH APPROVED MATERIAL.
 - EQUIPMENT SUBMITTALS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS, AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT.
 - PROVIDE "AS-BUILT" DOCUMENTATION AND HARD COPY REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE PROJECT AND SUBMIT TO THE ARCHITECT AND THE ENGINEER. AS-BUILT DRAWINGS SHALL INDICATE EXACT CIRCUIT NUMBERS, LOCATIONS OF ALL DEVICES, CEILING FIXTURES, AND RACEWAY FOR LIGHTING, TELECOMMUNICATIONS AND POWER DISTRIBUTION SYSTEMS AS INSTALLED.
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 - EXCEPT AS NOTED OTHERWISE, ALL WORK REQUIRED FOR THE ELECTRICAL INSTALLATION AS SHOWN ON DRAWINGS SHALL INCLUDE ALL LABOR, INSTALLATION METHODS, EQUIPMENT, AND MATERIALS AND SHALL BE IN STRICT COMPLIANCE WITH ALL BUILDING STANDARDS.
 - PROVIDE A COMPLETE METAL RACEWAY SYSTEM, FITTINGS AND ENCLOSURES FOR ALL ELECTRICAL WIRING SYSTEMS TO BE INSTALLED FOR THE PROJECT.
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 - PROVIDE COPPER THHN/THWN CONDUCTORS NOT LESS THAN #12 AWG FOR POWER CIRCUITS.
 - ANY EXISTING ELECTRICAL MATERIAL AND EQUIPMENT WHICH INTERFERES WITH THE NEW WORK SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR. VERIFY REMOVAL AND NEW LOCATION OF EQUIPMENT WITH THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER PRIOR TO WORK.
 - VERIFY CLEARANCES FOR ALL NEW OR EXISTING RELOCATED ELECTRICAL WORK BEFORE PROCEEDING WITH CONSTRUCTION. COORDINATE USAGE OF AVAILABLE SPACE WITH ALL TRADES. IN THE EVENT OF CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS. WHERE MORE STRINGENT REQUIREMENTS THAN THOSE DESCRIBED HEREIN OR AS SET FORTH UNDER CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION, THOSE GREATER REQUIREMENTS SHALL BE ADHERED TO.
 - EXISTING CONDITIONS OF ALL EXISTING BUILDING EQUIPMENT, DEVICES, FIXTURES, AND SYSTEMS THAT REQUIRE REWIRING, REUSE, RELOCATION, OR REFURBISHING AS PER DRAWINGS AND SPECIFICATIONS SHALL BE FIELD VERIFIED BY THE E.C. PRIOR TO COMMENCEMENT OF ANY WORK TO BE COMPLETELY OPERATIONAL. E.C. SHALL SUBMIT A WRITTEN STATEMENT AND ITEMIZED LISTING OF ALL EXISTING CONDITIONS OF THE FOLLOWING, ALTHOUGH NOT LIMITED TO THOSE LISTED:

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 - REFER TO CIVIL ENGINEERING DRAWINGS FOR EXACT LOCATIONS OF ALL NEW EQUIPMENT.

C5 ELECTRICAL GENERAL NOTES
NTS

D1 ELECTRICAL SITE PLAN
1" = 5'



THE PROJECT AREA IS LOCATED IN ZONE X AREA PER FLOOD INSURANCE RATE MAP 47157C0420F, DATED SEPTEMBER 28, 2007. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

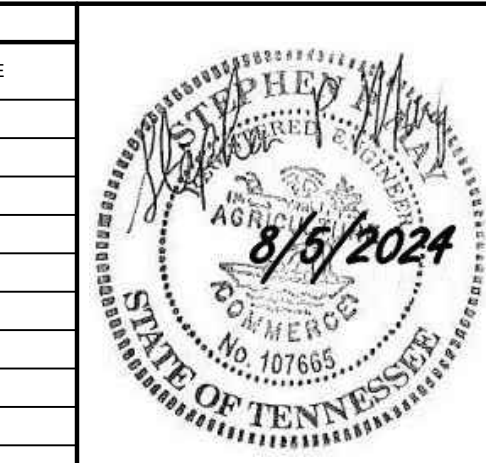


CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE

LIFT STATION REHAB DESIGN - GROUP 3

DEVELOPER: SARP 10
ENGINEER: A2H, INC.



SEWER BASIN ID: NS05

DWG NO. E1.0

DIVISION OF ENGINEERING
ELECTRICAL SITE PLAN

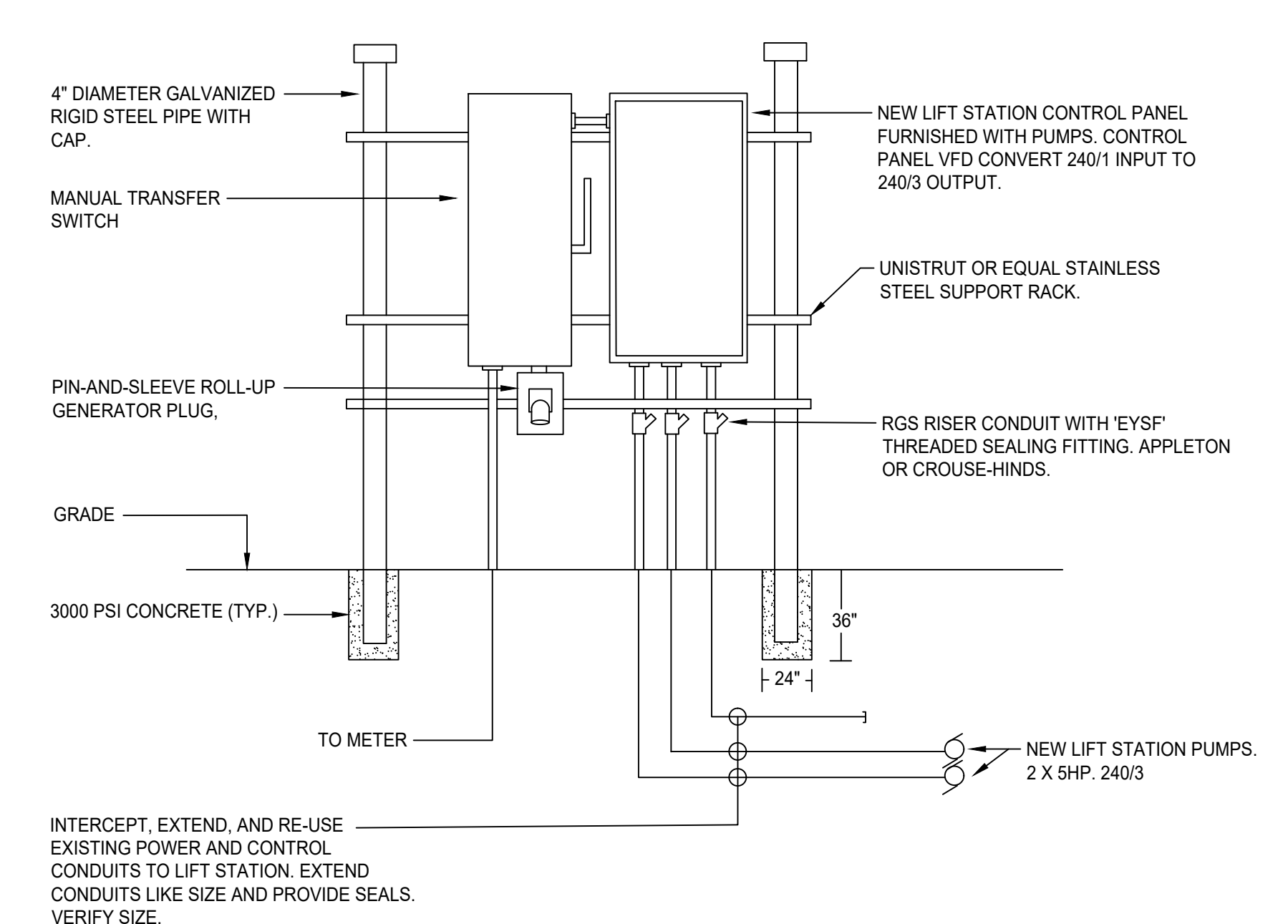
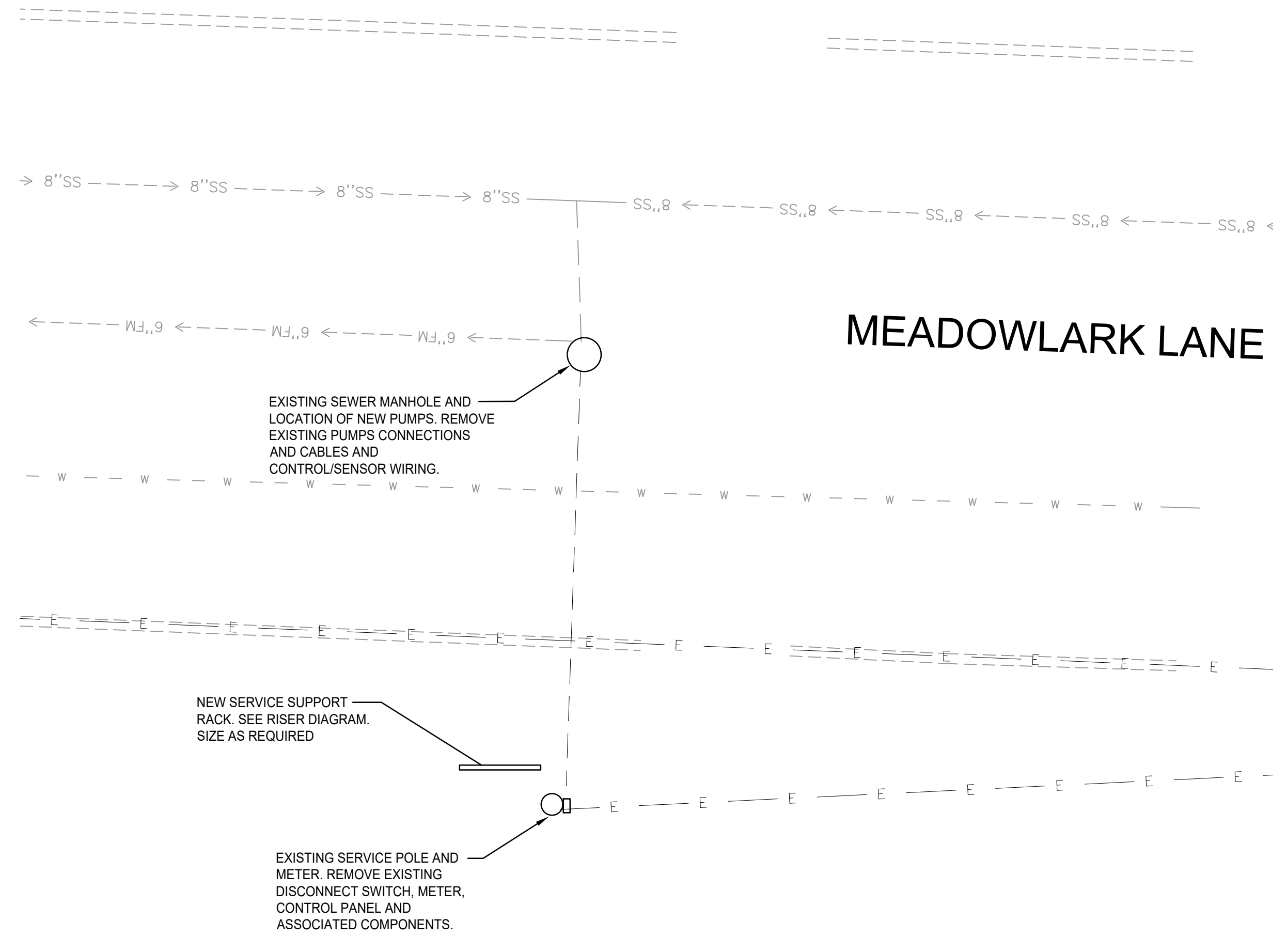
LOCATION: 1217 MEADOWLARK LANE
MEMPHIS, TENNESSEE

SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117-02
DESIGN BY: A2H, INC DATE: 06/2024 SCALE: AS NOTED

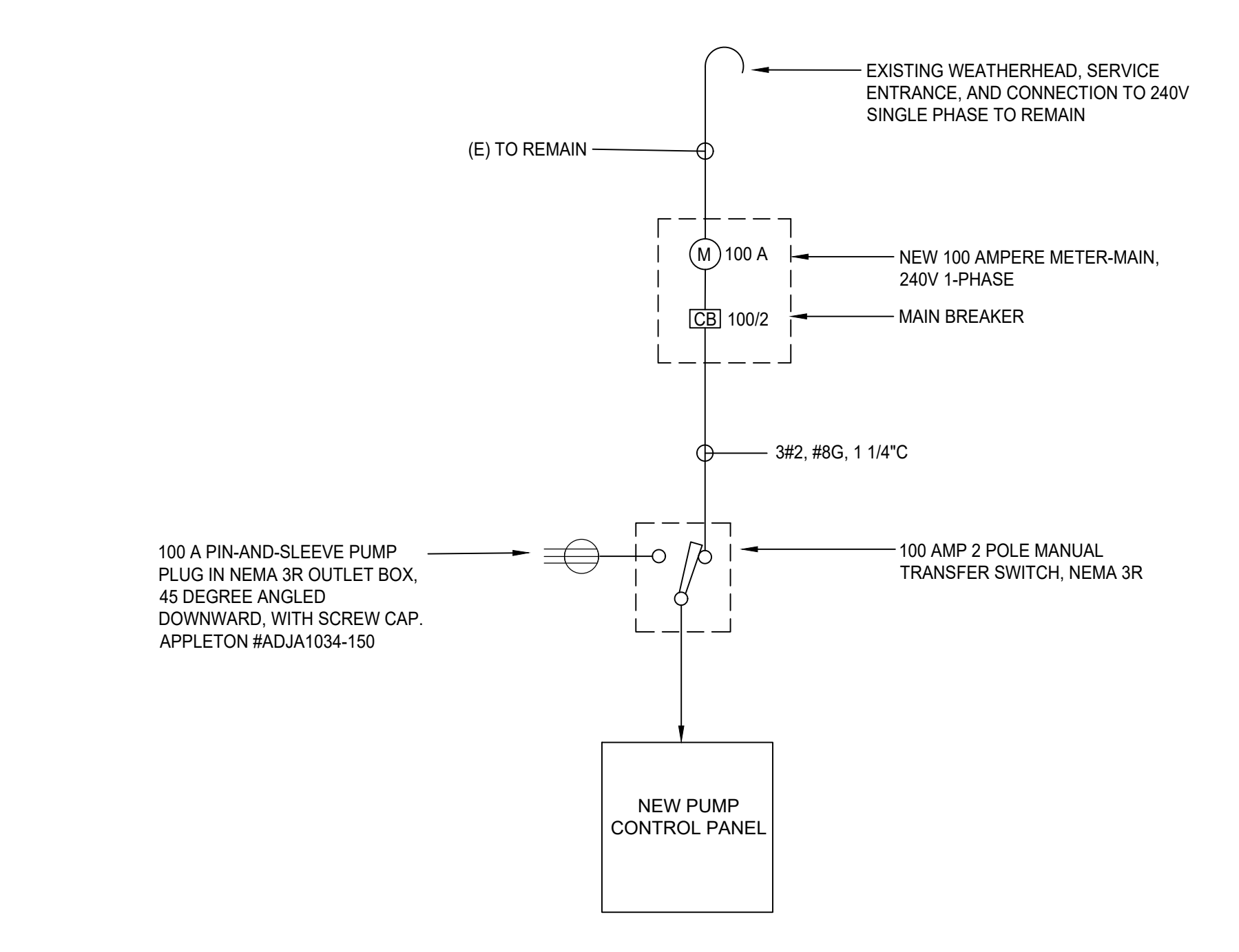
REVIEWED BY: _____ DATE: _____
CITY ENGINEER _____ DATE _____

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NEW 10/20/2017/2021 Electrical/Proj/Design Meadowlark/MEADOWLARK E1 to SITE PLAN - OLD - NEW.dwg
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B4 EQUIPMENT ELEVATION
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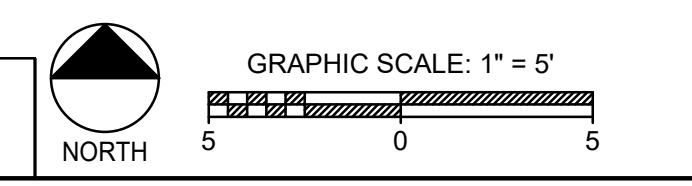


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 NTS

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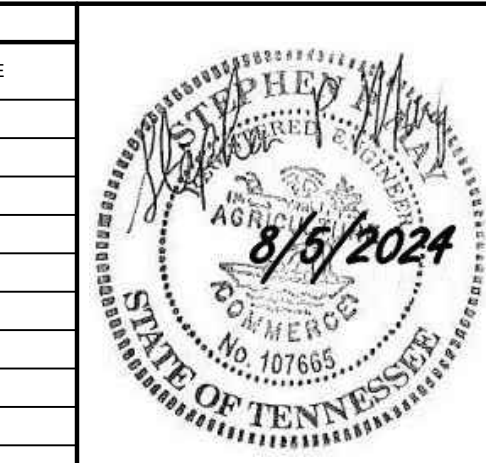


CONSTRUCTION DOCUMENTS

REVISIONS		
ITEM NO.	DESCRIPTION	DATE

LIFT STATION REHAB DESIGN - GROUP 3

DEVELOPER: SARP 10
 ENGINEER: A2H, INC.



SEWER BASIN ID: NS05

DWG NO. E1.0

DIVISION OF ENGINEERING
ELECTRICAL SITE PLAN

LOCATION: 1217 MEADOWLARK LANE
 MEMPHIS, TENNESSEE

SURVEY: A2H, INC DATE: 08/2021 PROJECT: 21117-02
 DESIGN BY: A2H, INC DATE: 06/2024 SCALE: AS NOTED
 REVIEWED BY: _____

CITY ENGINEER _____ DATE _____