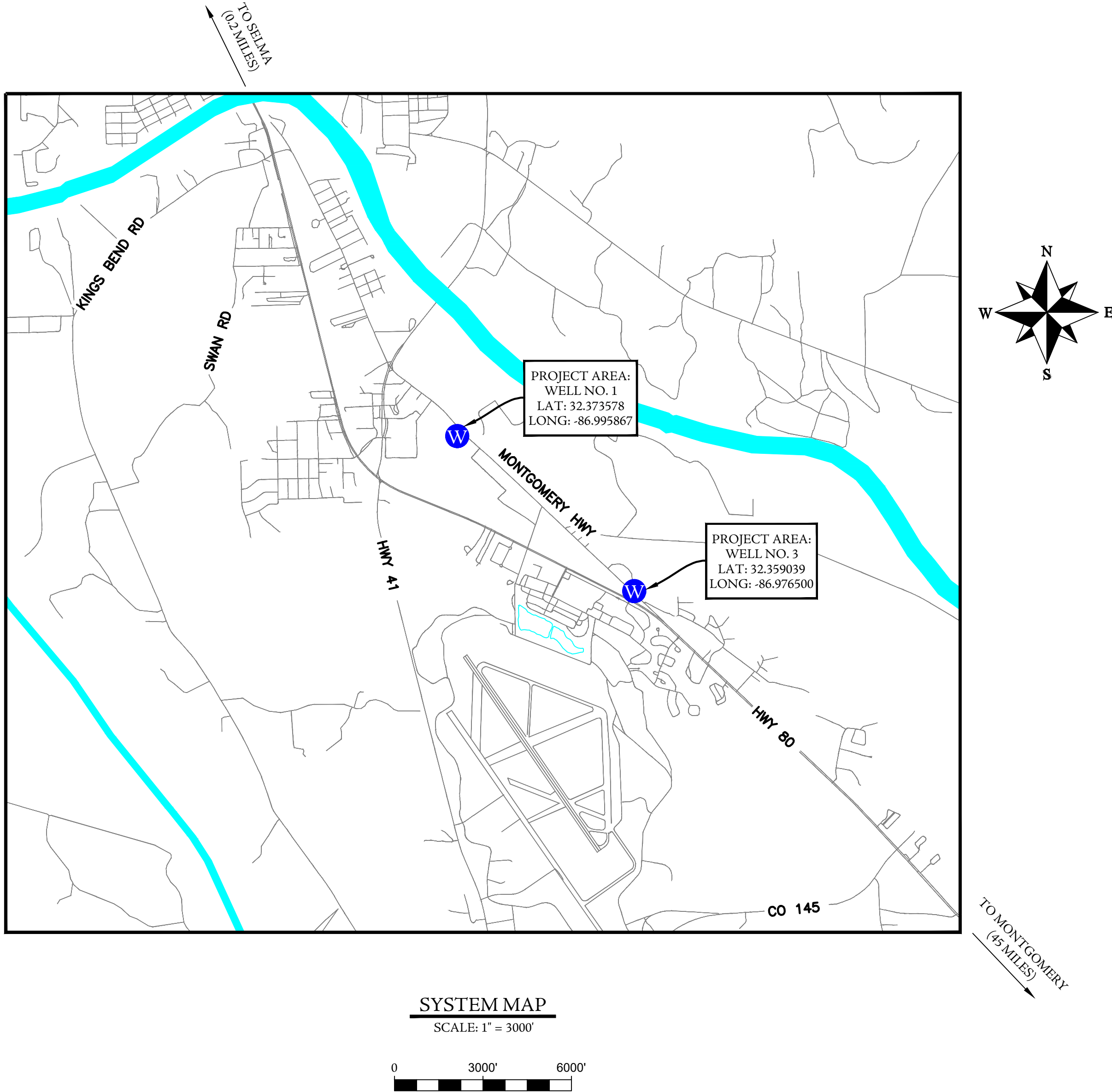
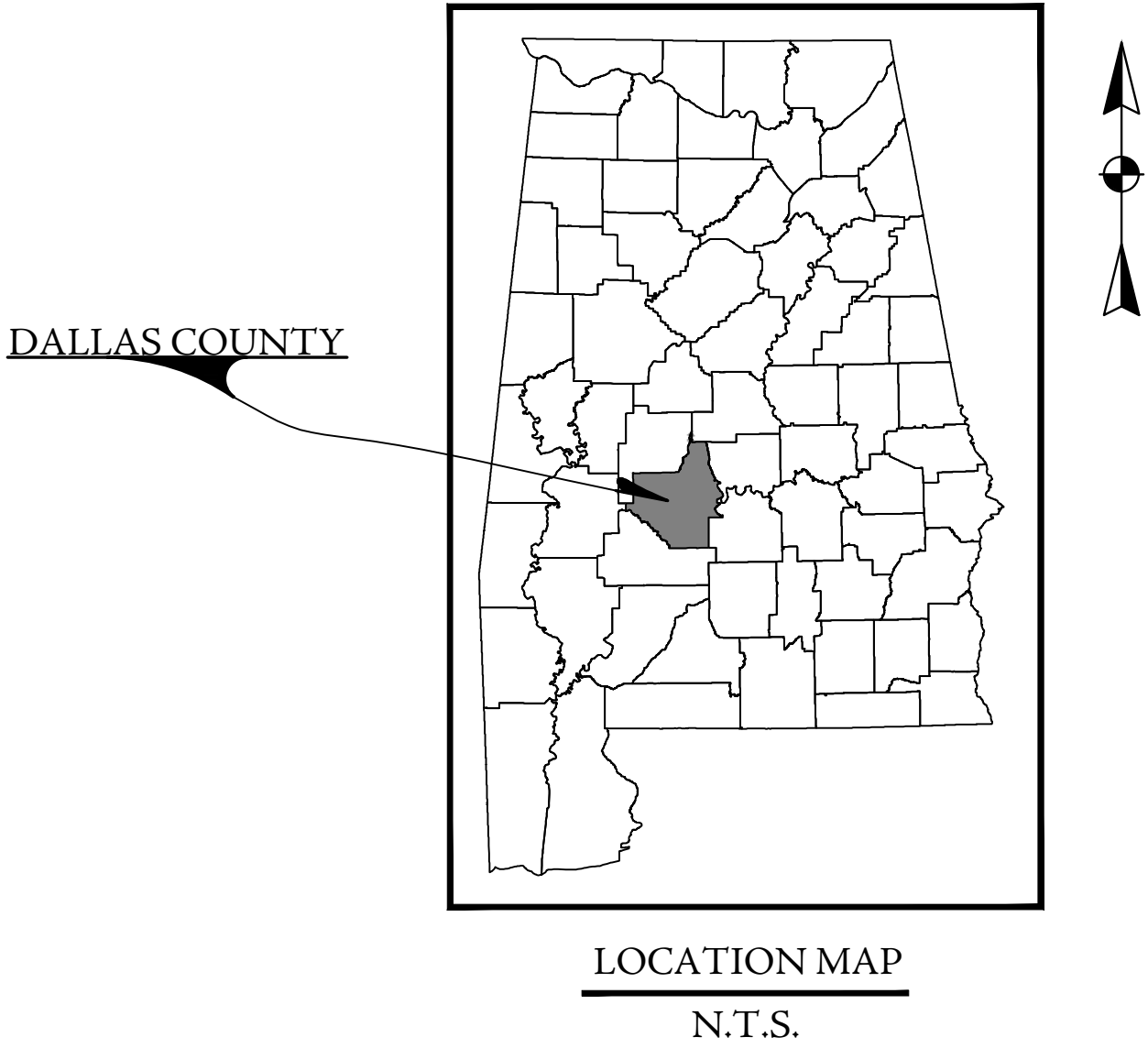


PLANS
OF THE
WATER SYSTEM IMPROVEMENTS
FOR
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY, ALABAMA

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DWSRF ARPA PROJECT NO. FS010316-01
KG PROJECT NUMBER 22-0020
JUNE 2026



PREPARED BY:
THE KELLEY GROUP
▪ A CIVIL ENGINEERING COMPANY ▪

800 Corporate Pwky, Suite 100
Birmingham, AL 35242

301 N Dickson St,
Tuscumbia, AL 35674



REVISIONS		DATE	BY
#	DESCRIPTION		
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TITLE SHEET
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
▪ A CIVIL ENGINEERING COMPANY ▪

800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

301 N Dickson St,
Tuscumbia, AL 35674

ATTENTION:
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PROJECT NO: 22-0020
DRAWN BY: TCW
CHECKED BY: BWT
SCALE: AS NOTED
DATE: 06/2026

SHEET NO.
C-1

GENERAL NOTES:

1. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH THE FOLLOWING:

A) THE KELLEY GROUP, LLC SPECIFICATIONS

B) MANUFACTURER'S SPECIFICATIONS
2. ALL CONTRACTORS AND THEIR SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING EXISTING SITE CONDITIONS AND HAVING ALL QUESTIONS ANSWERED PRIOR TO SUBMITTING BIDS AND BEGINNING CONSTRUCTION. A PRE-BID MEETING WILL BE HELD AND THE LOCATION/TIME IS LISTED IN THE SPECIFICATIONS.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ADJACENT PROPERTIES AND IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS ON OR OFF SITE DUE TO THE CONSTRUCTION OF THIS PROJECT. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL VERIFY SITE BOUNDARY AND EXISTING TOPOGRAPHY. NOTIFY THE KELLEY GROUP, LLC. OF ANY DISCREPANCIES PRIOR TO SUBMITTING PRICES OR ORDERING MATERIALS.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO CONSTRUCT THIS PROJECT AND PAY ALL PERMIT FEES. ALL PERMITS MUST BE IN-HAND PRIOR TO CONSTRUCTION.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL BENCHMARKS AND PROPERTY CORNERS. ANY REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR TO FURNISH A MAINTENANCE OF SEWER SERVICE PLAN PRIOR TO ISSUANCE OF A NOTICE TO PROCEED (NTP) FOR THIS PROJECT. LIST BY-PASS ACTIVITIES FOR EACH LOCATION IN DETAIL NOTING MANHOLES PUMPED FROM, PLACEMENT OF PLUGS, AND WHERE PUMPED TO.
8. CONTRACTOR TO FURNISH A CONSTRUCTION PHASING PLAN PRIOR TO ISSUANCE OF A NOTICE TO PROCEED (NTP) FOR THIS PROJECT.
9. CONTRACTOR TO FURNISH A CONSTRUCTION SCHEDULE PRIOR TO ISSUANCE OF A NOTICE TO PROCEED (NTP) FOR THIS PROJECT.
10. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
11. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO EACH PROPERTY OWNER AT LEAST 14 DAYS PRIOR TO BEGINNING ANY WORK ON THEIR PROPERTY UNLESS OTHERWISE NOTED.
12. ALL CONTRACTORS AND THEIR SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING EXISTING SITE CONDITIONS AND HAVING ALL QUESTIONS ANSWERED PRIOR TO SUBMITTING BIDS AND BEGINNING CONSTRUCTION.
13. CONTRACTOR IS RESPONSIBLE FOR OFFSETTING/MOVING THE SUPPLIED CONTROL DATA FOR PERFORMANCE OF THE NECESSARY WORK. ANY DEVIATION FROM THE SUPPLIED POINTS AND THE PLANS SHOULD IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE CONTINUATION OF THE WORK.
14. THE SITE WILL BE AVAILABLE TO ANY BIDDING CONTRACTOR BEFORE THE OFFICIAL BID OPENING.
15. CONTRACTOR IS RESPONSIBLE FOR WORKPLACE SAFETY AND SHALL SECURE THE PROJECT AREA DURING ALL TIMES WORK IS NOT BEING PERFORMED.
14. ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST. CONTRACTOR MUST HAVE EXISTING UTILITIES LOCATED BY UNDERGROUND LINE LOCATORS AS WELL AS FIELD VERIFIED BY ONSITE CONTRACTOR PERSONNEL PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. COORDINATE ACTIVITIES WITH ENGINEER ALLOWING LOCATION SURVEY TO BE PERFORMED BEFORE RECOVERING EXPOSED UTILITIES.
15. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ADJACENT PROPERTIES AND IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS ON OR OFF SITE DUE TO THE CONSTRUCTION PROJECT. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

EROSION CONTROL NOTES:

1. SITE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS.
2. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING THE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL EROSION CONTROL INSTALLATION AND MAINTENANCE SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
3. EROSION CONTROL DEVICES SHOWN ON THESE PLANS ARE A MINIMUM. ADDITIONAL DEVICES SHALL BE INSTALLED AS REQUIRED TO PREVENT SILTATION, EROSION, AND OTHER DEGRADATION OR POLLUTION TO SITE OR ADJACENT PROPERTIES, STREAMS, DITCHES, AND PUBLIC ROADWAYS.
4. EROSION CONTROL DEVICES SHALL INCLUDE THE FOLLOWING DEVICES: SILT FENCING, BRUSH BERMS, SEDIMENT BASINS, DETENTION PONDS, STRAW WATTLES, CHECK DAMS, FILTER BERMS, JUTE MATTING, VEGETATIVE FILTER STRIPS, TURN REINFORCEMENT MAT, DIVERSION BERMS, ETC.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES IN GOOD OPERATING CONDITION DURING ALL LAND DISTURBING ACTIVITIES. THIS RESPONSIBILITY SHALL INCLUDE THE CLEANUP AND/OR REPAIRS TO THE DEVICES AT NO ADDITIONAL COST TO THE OWNER.
6. EROSION CONTROL DEVICES SHALL BE MONITORED AND MAINTAINED UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED AND AFTER EACH RAINFALL GREATER THAN 0.75 INCHES IN A 24 HOUR PERIOD, ANY WIND GUSTS GREATER THAN 25 MPH, AND ANY SUSTAINED WINGS GREATER THAN 20 MPH IN A 24 HOUR PERIOD.
7. AFTER ALL LAND DISTURBANCE ACTIVITIES HAVE CEASED AND AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED, THE EROSION CONTROL DEVICES SHALL BE REMOVED BY THE CONTRACTOR AND THE AREA CLEANED AND DRESSED.
8. A GRAVELED ACCESS DRIVE OF SUFFICIENT SIZE SHALL BE AT EACH SITE ENTRANCE/EXIT TO PREVENT TRACKING OF DIRT AND SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. IF SEDIMENT REACHES THE ROADWAY, THEN IT MUST BE CLEANED AT THE END OF EACH WORKDAY.
9. ALL LAND DISTURBANCE ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE EXPOSURE OF BARE AREAS AT ANY ONE TIME.
10. ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN 14 DAYS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ALDOT SPECIFICATION SECTION 652 AND 656.
11. PRIOR TO SITE CLEARING, ALL PERIMETER SILT FENCING, BRUSH BERMS, ETC. AND GRAVELED ACCESS DRIVES SHALL BE INSTALLED.
12. ALL EXISTING STREAMS, DITCHES, ETC. SHALL BE PROTECTED FROM SEDIMENTS AND SILTS BY SILT FENCING, WATTLES, BRUSH BERMS, ETC.

16. ALL EROSION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF SECTIONS 665 OF THE ALDOT SPECIFICATIONS. PLANS SHOW DETAILS FOR EROSION CONTROL MEASURES. THE ENGINEER RESERVES THE RIGHT TO ALTER AND CHANGE THE EROSION CONTROL PLANS DUE TO WEATHER AND/OR UNFORESEEN NEED FOR EROSION CONTROL. CONTRACTOR IS EXPECTED TO BE PROACTIVE IN INSURING PROPER EROSION CONTROL. CONTRACTOR SHALL BE REQUIRED TO PROVIDE AN APPROVED RAIN GAUGE TO BE LOCATED ON SITE AND RAIN READINGS RECORDED.
3. ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE TRANSPORTED AND DISPOSED OF AT LEAST WEEKLY IN AN APPROVED MANNER, AND COMPLETED IN ACCORDANCE WITH SECTION 210 OF THE ALDOT SPECIFICATIONS.
2. CLEARING LIMITS SHALL BE 5' OUTSIDE OF ALL PROPOSED GRADED AREAS OR NOT BEYOND THE PROPERTY LINES WHICHEVER IS LESS.
3. NO GRADING OFF-SITE OR IN ROAD RIGHT-OF-WAY WITHOUT PROPER APPROVALS AND PRIOR NOTIFICATION.
4. COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE EROSION CONTROL PLAN.
5. PROPOSED GRADES INDICATED ON THIS PLAN ARE TO FINISH GRADE. THE CONTRACTOR SHALL MAKE SUBGRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.
6. ALL NEW GRADING MUST SMOOTHLY TRANSITION INTO EXISTING GRADES AT THE CULMINATION OF THE NEW GRADES SLOPE.
1. ALL CONNECTIONS AND SYSTEM OPERATIONS SHALL TAKE PLACE IN THE PRESENCE OF THE OWNER AND ENGINEER. THE CONTRACTOR SHALL GIVE 24HRS NOTICE TO THE OWNER AND ENGINEER BEFORE COMMENCING THESE ACTIVITIES.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE VARIOUS UTILITY OWNERS AND DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT.
3. CONTRACTOR TO MAKE UTILITY LINE LOCATE REQUESTS IN INCREMENTS NOT TO EXCEED 2,000 LINEAR FEET PER WORKING DAY.
4. UTILITY TRENCHES SHALL BE BACKFILLED WITH COMPACTED FILL PLACED IN 6 INCH LOOSE LIFTS. FILL SHALL BE COMPACTED TO 98% STANDARD PROCTOR AND OPTIMUM MOISTURE CONTENT WITHIN ±2.0%.
5. WHEN INSTALLING UTILITIES IN EXISTING PAVED AREAS OR IN AREAS WHERE SOILS ARE CONSIDERED UNSUITABLE FOR BEDDING OR BACKFILLING, UTILITY TRENCHES SHALL BE BACKFILLED FULL DEPTH WITH CRUSHED AGGREGATE.
6. CONTRACTOR TO NOTIFY FIRE DEPARTMENT, POLICE, AND RESCUE SERVICES OF ANY WORK REQUIRING OPEN CUT OF ROADWAYS.
7. SERVICE CONNECTIONS SHALL BE COORDINATED WITH THE OWNER FOR PLACEMENT OF METER BOXES WHEN PLACEMENT OF NEW OR RELOCATION OF EXISTING METER BOXES OCCURS.
8. ALL WATER MAINS, FIRE HYDRANT LEADS, AND WATER SERVICE CONNECTIONS SHALL HAVE A MINIMUM COVER OF 3'-6", AND A MAXIMUM OF 5'-0".
9. MAXIMUM PIPE DEFLECTION SHALL BE 1/2 OF THE MANUFACTURERS MAXIMUM ALLOWABLE DEFLECTION OR 2.5", WHICHEVER IS LESS.
10. NEW PIPE THAT IS LEFT UNATTENDED DURING CONSTRUCTION SHALL HAVE TEMPORARY PLUGS INSTALLED AT ALL OPENINGS.
11. VALVES SHALL BE INSTALLED AT A MINIMUM DISTANCE OF 5'-0" FROM TEES AND CROSSES.
12. EACH VALVE SHALL INCLUDE A VALVE BOX UNLESS OTHERWISE NOTED ON THE PLANS. ALL WATER VALVE BOX LIDS SHALL BE CAST DUCTILE IRON AND LABELED WITH THE WORD "WATER". SEWER VALVE BOX LIDS SHALL BE CAST DUCTILE IRON AND LABELED WITH THE WORD "SEWER".
13. ALL CONNECTIONS TO EXISTING WATER AND SEWER MAIN VALVES, FITTINGS OR OTHER APPURTENANCES AND ALL BENDS, TEES, PLUGS, DEAD-ENDS, WET TAPS, FIRE HYDRANTS, AND BLOW OFF ASSEMBLIES SHALL BE CONSTRUCTED WITH CONCRETE KICKERS AND SHALL ALSO BE INSTALLED WITH RETAINER GLANDS. ADDITIONALLY ALL VALVES SHALL BE INSTALLED WITH RETAINER GLANDS.
14. THE CONTRACTOR IS RESPONSIBLE FOR COLLECTING AND SENDING THE REPRESENTATIVE BACTERIAL WATER SAMPLE TO THE APPROPRIATE LAB FOR TESTING TO ENSURE BACTERIOLOGICAL COMPLIANCE OF WATER FACILITIES, THIS SHALL BE COORDINATED WITH THE OWNER.
15. ALL NEW WATER AND SEWER LINES ARE TO BE ISOLATED, TESTED, AND APPROVED BY THE ENGINEER PRIOR TO OPENING THE NEW LINE TO THE EXISTING WATER SYSTEM.
16. WATER AND SEWER LINE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES, IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.
17. 12 GAUGE TRACER WIRE SHALL BE USED ON ALL PVC PIPE AND WARNING TAPE SHALL BE PLACED 1' ABOVE ALL PIPE.
18. THE MINIMUM DISTANCE BETWEEN TEES, CROSSES, VALVES, AND BENDS SHALL BE 5'-0".
19. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS ALONG THE ROUTE OF THE WATER AND SEWER LINES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
20. A MINIMUM DISTANCE OF 18" SHALL BE MAINTAINED WHEN CROSSING THE PATH OF OTHER EXISTING UTILITIES AND STORM SEWERS.
21. THE CONTRACTOR SHALL LOCATE ON THE GROUND WITH PAINT OR OTHER EASILY VISIBLE MEANS ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION. CONFLICTS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. THE UTILITIES SHOWN ARE ILLUSTRATED AS LOCATED ON THE GROUND BY LINE LOCATORS, SURVEY OF ABOVE GROUND STRUCTURES, AND ACCORDING TO UTILITY MAPS, AND ARE PROVIDED AS INFORMATION ONLY.
22. THE CONTRACTOR SHALL COORDINATE WITH ANY EFFECTED UTILITY COMPANIES CONCERNING CONFLICTS, RELOCATION, REMOVAL, AND INTERRUPTIONS OF SERVICE.
23. THE WORK REQUIRED TO RELOCATE, REMOVE, INSTALL, REPLACE, ETC. UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WITHIN THE LIMITS OF THE WORK.
24. THE CONTRACTOR SHALL PRESERVE AND PROTECT ACCORDING TO THE INSTRUCTION OF THE UTILITY INVOLVED ANY "LIVE" UTILITIES LOCATED BY THE UTILITY COMPANY OR CONTRACTOR.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL CONCRETE, SIDEWALKS, WALLS, ETC. DAMAGED DURING CONSTRUCTION. ALL DISTURBED AREAS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RESTORED TO THE ORIGINAL CONDITION OR AS ACCEPTED BY THE OWNER. UNSTABLE OR PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING SITE PREPARATION.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER IN ADVANCE OF ALL REQUIRED TESTING AND SECURING COPIES OF RESULTING REPORTS.

GRADING NOTES:

UTILITY NOTES:

TRAFFIC CONTROL NOTES

27. DAMAGED OR UNDERMINED SIGNS AND MAILBOXES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE PROJECT
1. THE TRAFFIC CONTROL PLAN IS DEVELOPED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PART 6, 2009 EDITION. THE TRAFFIC CONTROL DEVICES INDICATED REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS WARRANT ADDITIONAL TRAFFIC CONTROL DEVICES, THEY SHALL BE INSTALLED IN CONFORMANCE WITH THE M.U.T.C.D. PART 6 AS DIRECTED BY THE ENGINEER. COST SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEM.
2. ALL BLACK ON ORANGE CONSTRUCTION SIGNS SHALL BE FABRICATED USING TYPES IV OR VII FLUORESCENT ORANGE REFLECTIVE SHEETING MATERIAL FOR THE SIGN BACKGROUND.
3. THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS BEFORE PROCEEDING WITH HIS WORK. SIGNS SHALL BE PLACED IN ORDER, IN THE DIRECTION OF TRAFFIC AND REMOVED IN REVERSE ORDER.
4. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.
5. CONSTRUCTION SIGNS MOUNTED ON TEMPORARY SUPPORTS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5 FEET.
6. FLAGGERS ARE TO BE USED WHEN DIRECTED BY THE ENGINEER. SIGNS SHALL BE PLACED AT THE APPROPRIATE TIME, AND SHALL BE COVERED OR REMOVED WHEN FLAGGERS ARE NOT ON DUTY AND DURING NON-WORKING HOURS.
7. ALL CONTRACTOR'S EMPLOYEES' PERSONAL VEHICLES, AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION, SHALL BE PARKED A MINIMUM OF THIRTY (30) FEET FROM THE TRAVELED WAY DURING WORKING HOURS, AS NOT TO CREATE A HAZARD.
8. ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.
9. ALL SIGNS SHALL BE POST-MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS, EXCEPT FOR THOSE SIGNS WHICH ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, SIGNS MAY E MOUNTED ON TEMPORARY SUPPORTS AND REMOVED AT THE COMPLETION OF THE DAY'S OPERATION.
10. SIGNS ON TEMPORARY SUPPORTS ARE TO BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED OR AT THE COMPLETION OF THE DAY'S OPERATION.
11. CHANNELIZING DEVICES SHALL EXTEND TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
12. THE CONTRACTOR SHALL CLOSE THE LANE ADJACENT TO THE WORK AREA ANYTIME WORK OUTSIDE THE EXISTING TRAVEL LANES ENCROACHES WITHIN 2 FEET OF THE EXISTING EDGE OF PAVEMENT.
13. MOVING OPERATIONS SHALL BE CONFINED TO ONE LANE IN THE DIRECTION OF TRAFFIC.
14. R16-3 AND R16-3a SIGNS SHALL BE REQUIRED FOR EVERY PROJECT ON STATE ROUTES AND INTERSTATE HIGHWAYS. THEY SHALL BE POSTED AT THE BEGINNING AND END OF THE PROJECT. AN R2-1 SIGN SHALL ALWAYS BE REQUIRED FOLLOWING AN R16-3 SIGN. ADDITIONAL R16-3 SIGNS SHALL BE POSTED AT A MAXIMUM THREE MILE INTERVALS THROUGHOUT THE PROJECT LIMITS. ADDITIONAL R16-3 SIGNS SHALL BE REQUIRED WITH A W3-5b SIGN AND R2-1 SIGN WHENEVER A REDUCTION IN SPEED IS REQUIRED.
15. WHEN A CONSTRUCTION WORK ZONE SPEED LIMIT REDUCTION IS REQUIRED, THE CONTRACTOR SHALL COVER OR REMOVE THE R2-1 (REGULATORY SPEED SIGNS) AND THE W3-5b (REDUCED SPEED AHEAD) SIGNS AT THE END OF THE WORK DAY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
16. CONSTRUCTION SIGNS MOUNTED ON A SINGLE OR DUAL SQUARE TUBULAR OR U-CHANNEL POST SHALL BE INSTALLED AS SHOWN ON SPECIAL DRAWING NOS. IHS-710-21 AND IHS-710-23.

ABBREVIATIONS

ACQ'D	ACQUIRED
AC	ACRE
ALDOT	ALABAMA DEPARTMENT OF TRANSPORTATION
BM	BENCHMARK
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BLDG	BUILDING
CC	CARRYING CAPACITY
CIP	CAST IRON PIPE
CL	CENTER LINE
CONC	CONCRETE
CU. YD.	CUBIC YARD
C&G	CURB AND GUTTER
DF	DESIGN FLOW
DIST	DISTANCE
DA	DRAINAGE AREA
DIP	DUCTILE IRON PIPE
E	EASTING
ESMT	EASEMENT
EL	ELEVATION
FL	FLOWLINE
GPM	GALLONS PER MINUTE
GM	GAS METER
GV	GAS VALVE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HC	HANDICAP
HDWL	HEADWALL
HW	HIGH WATER
HORIZ	HORIZONTAL
JCT	JUNCTION
JCT BOX	JUNCTION BOX
LF	LINEAR FEET
LP	LOW POINT
MB	MAILBOX
MH	MANHOLE
N	NORTHING
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PL	PROPERTY LINE
RR	RAILROAD
R	RANGE
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
ROW	RIGHT OF WAY
RD	ROAD
SS	SANITARY SEWER
S	SECTION
SQ. YD.	SQUARE YARD
STA	STATION
ST	STREET
TBM	TEMPORARY BENCH MARK
T	TOWNSHIP
VERT	VERTICAL
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
WM	WATER METER
WV	WATER VALVE
WP	WATERPROOF
WW	WINGWALL
YD	YARD



PROJECT CONTACTS			
DESCRIPTION	NAME	PHONE NUMBER	ADDRESS
ENGINEER	BART TAFT, P.E.	256-248-7030	800 CORPORATE PKWY, SUITE 100 BIRMINGHAM, ALABAMA 35242
WATER AND SEWER	DALLAS COUNTY WATER AND SEWER AUTHORITY	334-872-2820	2504 OLD MONTGOMERY RD, SELMA, ALABAMA 36703
DALLAS COUNTY COMMISSION COUNTY ENGINEER	WILLIAM BRIDGES	334-874-2503	102 CHURCH ST, SELMA, ALABAMA 36701
NATURAL GAS	SPIRE ENERGY	334-874-2466	10096 AL HIGHWAY 14 WEST, SELMA, ALABAMA 36701
ELECTRIC POWER	ALABAMA POWER	800-245-2244	217 CHURCH ST, SELMA, ALABAMA, 36701

REVISIONS		DATE	BY
#	DESCRIPTION		
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6			

GENERAL NOTES	DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY	
DALLAS COUNTY	
ALABAMA	

THE KELLEY GROUP A CIVIL ENGINEERING COMPANY	301 N Dickson St. Tusculum, AL 35674
	800 Corporate Pkwy, Suite 100 Birmingham, Alabama 35242

ATTENTION: THIS BAR IS LOCATED ON ORIGINAL DRAWING. ADJUST SCALE IF THIS BAR ≠ 1 INCH.
1" = 1'

PROJECT NO: 22-0020
DRAWN BY: TCW
CHECKED BY: BWT
SCALE: AS NOTED
DATE: 06/2026

SHEET NO.
C-2

ABBREVIATIONS			
ACQUIRED	AQ'D	LINEAR FEET	L.F.
ACRE	AC.	POINT ON CURVE	P.O.C.
BENCHMARK	B.M.	POINT OF CURVE	P.C.
BITUMINOUS COATED		POINT OF INTERSECTION	P.I.
CORRUGATED METAL PIPE	B.C.C.M.P.	POINT OF TANGENT	P.T.
BRICK RESIDENCE	BR. RES.	POINT ON TANGENT	P.O.T.
BUILDING	BLDG.	PROPERTY LINE	ℙ
CARRYING CAPACITY	C.C.	RAILROAD	R.R.
CAST IRON PIPE	C.I.P.	RANGE	R.
CENTER LINE	℄	RIGHT OF WAY	R.O.W.
CONCRETE	CONC.	REQUIRED	REQ'D
CORNER	COR.	REINFORCED CONCRETE PIPE	R.C.P.
CUBIC YARD	C.Y.	SANITARY SEWER	SAN. SEW.
CURB AND GUTTER	C&G	SECTION	SEC.
DESIGN FLOW	D.F.	SHOULDER	SHLDR.
DISTANCE	DIST.	SIDE DRAIN	S.D.
DOUBLE	DBL.	SQUARE YARD	S.Y.
DRAINAGE AREA	D.A.	STATION	STA.
DUCTILE IRON	D.I.	STORM SEWER	STM. SEW.
DUCTILE IRON PIPE	D.I.P.	STREET	ST.
EASEMENT	ESMT.	TANGENT TO CURVE	TAN. TO C.
ELEVATION	EL.	TOWNSHIP	T.
FLOW LINE	F.L.	VALLEY GUTTER	V.G.
FRAME RESIDENCE	FR. RES.	VERTICAL	VERT.
GALLONS PER MINUTE	G.P.M.	VERTICAL POINT OF CURVE	V.P.C.
GAS METER	G.M.	VERTICAL POINT OF INTERSECTION	V.P.I.
GAS VALVE	G.V.	VERTICAL POINT OF TANGENT	V.P.T.
HEADWALL	HDWL.	VITRIFIED CLAY PIPE	V.C.P.
HIGH WATER	H.W.	WATER METER	W.M.
HORIZONTAL	HORIZ.	WATER VALVE	W.V.
JUNCTION	JCT.	WING WALL	W.W.
JUNCTION BOX	JCT. BOX	YARD	YD.

MISCELLANEOUS

459

INTERSTATE HIGHWAY

280

UNITED STATES HIGHWAY

150

STATE HIGHWAY

115

COUNTY HIGHWAY

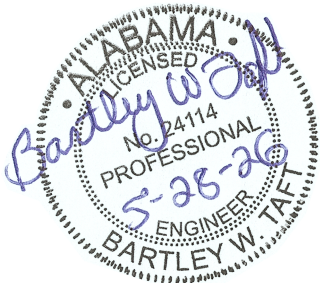
CONTRACTOR NOTE:

THE TYPE, SIZE, LOCATION, AND DEPTH OF ALL PUBLIC UTILITIES MAY OR MAY NOT BE SHOWN FROM AVAILABLE RECORDS.

THE CONTRACTOR IS REQUIRED TO VERIFY LOCATIONS PRIOR TO CONSTRUCTION. LOCATIONS MAY BE ASCERTAINED BY CONTACTING ALABAMA LINE LOCATION CENTER AT 1-800-292-8525.

NATURAL		
EXISTING	PROPOSED	DESCRIPTION
		TREE (SIZE & DESCR. NOTED)
		SHRUB
		TREE LINE
		EDGE OF WATER
		EARTH
		ROCK
		DITCH CENTERLINE
STRUCTURES		
EXISTING	PROPOSED	DESCRIPTION
		ASPHALT ROAD OR DRIVEWAY
		BUILDING
		BRIDGE OR BOX CULVERT (SIZE & DESCR. NOTED)
		CHAIN LINK FENCE
		CONCRETE ROAD OR DRIVEWAY
		CONCRETE SIDEWALK
		DROP INLET (DESCR. NOTED)
		EDGE OF CURB
		EDGE OF ROAD
		FIRE HYDRANT
		GATE
		GRAVEL ROAD OR DRIVEWAY
		GUARDRAIL
		HOG WIRE OR BARBED WIRE FENCE
		MAILBOX
		MASONRY WALL (DESCR. NOTED)
		RAILROAD TRACK - SINGLE
		RAILROAD TRACK - DOUBLE
		ROAD ℄
		STORM DRAIN PIPE (SIZE & DESCR. NOTED)
		TRAFFIC OR STREET SIGN
		WATER METER
		WATER VALVE
		WOOD FENCE

SURVEY		
EXISTING	PROPOSED	DESCRIPTION
		SPOT ELEVATION
		CONTOUR
		PIPE CENTERLINE LOCATION
		RIGHT OF WAY
		SERVITUDE OR EASEMENT
		PROPERTY IRON (DESC. NOTED)
		PROPERTY LINE
		SECTION CORNER
		SECTION LINE
		¼ - ¼ SECTION LINE
		TRACT NO. FOR ROW
UTILITIES		
EXISTING	PROPOSED	DESCRIPTION
		SANITARY SEWER MANHOLE
		SANITARY SEWER GRAVITY LINE (SIZE NOTED IF KNOWN)
		SANITARY SEWER FORCEMAIN (SIZE NOTED IF KNOWN)
		UTILITY MANHOLE (TYPE NOTED IN CIRCLE P,T,ETC...)
		WATER LINE (SIZE NOTED IF KNOWN)
		GAS LINE (SIZE NOTED IF KNOWN)
		WATER METER
		GAS METER
		GAS LINE MARKER (NOTED)
		VALVE (TYPE NOTED)
		POWER POLE
		GUY WIRE
		OVERHEAD TELEPHONE
		OVERHEAD ELECTRIC
		UNDERGROUND TELEPHONE
		UNDERGROUND ELECTRIC
		GROUT HOLES
		FIRE HYDRANT



REVISIONS		DATE	BY
DESCRIPTION			
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LEGEND SHEET

DALLAS COUNTY DWSRF 2022

DALLAS COUNTY WATER & SEWER AUTHORITY

DALLAS COUNTY

ALABAMA

THE KELLEY GROUP

A CIVIL ENGINEERING COMPANY

800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

301 N. Dickson St.
Tusculum, AL 35674

ATTENTION:
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BAR ≠ 1 INCH.

PROJECT NO: 22-0020

DRAWN BY: TCW

CHECKED BY: BWT

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DATE: 06/2026

SHEET NO.

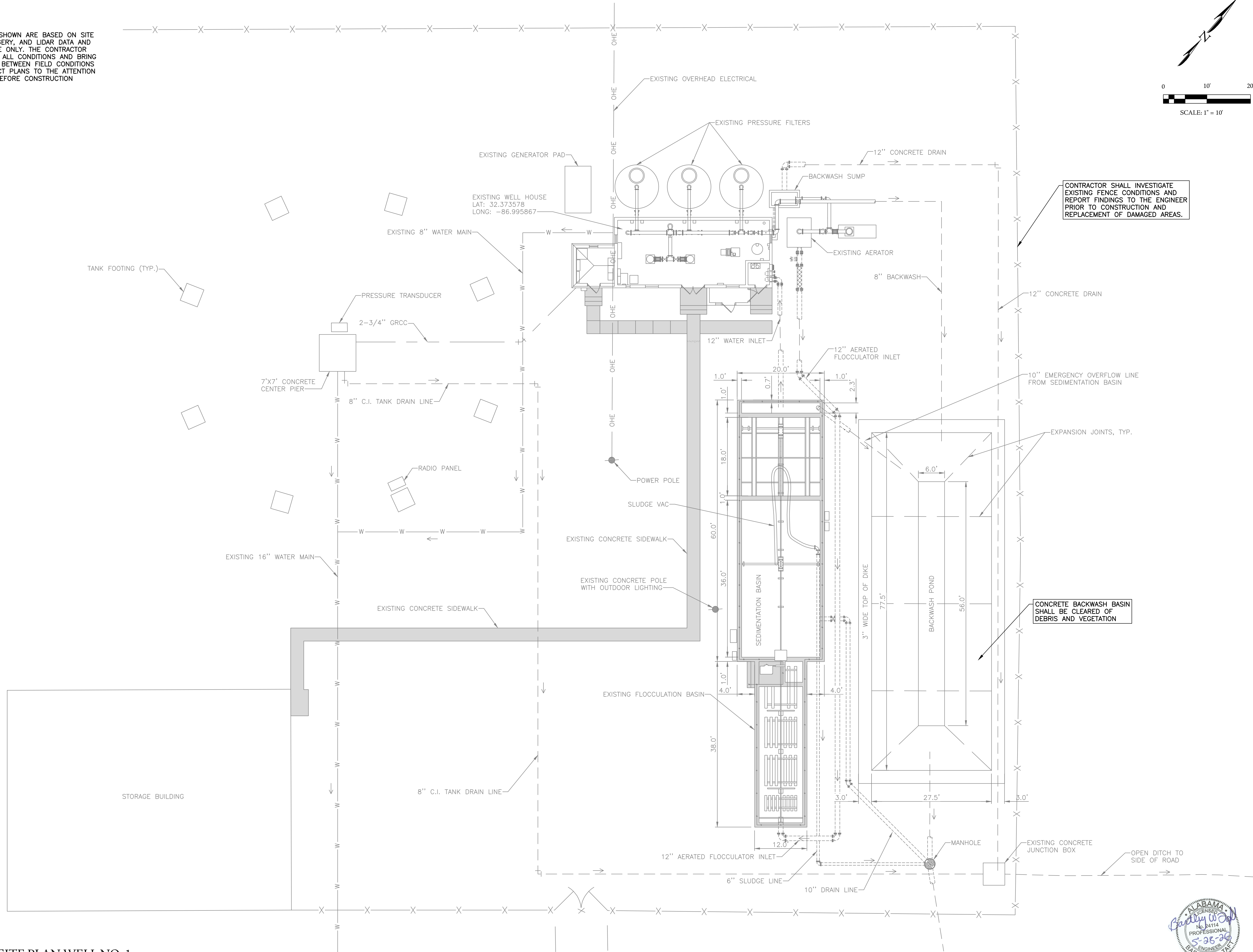
C-3

5/28/2026 8:14:13 AM

R:\2022\220020 - DALLAS COUNTY DWSRF 2022\7\CAD\PRODUCTION PLANS\01 - WELL 1.DWG

NOTES:

1. EXISTING FEATURES SHOWN ARE BASED ON SITE INVESTIGATIONS, IMAGERY, AND LIDAR DATA AND ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL FIELD-VERIFY ALL CONDITIONS AND BRING ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE CONTRACT PLANS TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION COMMENCES.



C-4

OVERALL SITE PLAN WELL NO. 1

Scale: 1" = 10'

REVISIONS	
#	DESCRIPTION
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OVERALL SITE PLAN WELL NO. 1
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

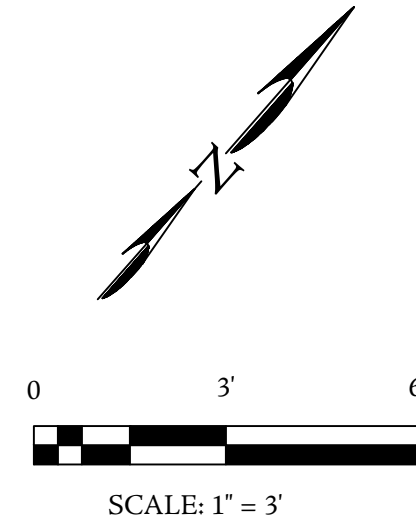
THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
301 N. Dickson St.
Tusculum, AL 35674
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

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SHEET NO.
C-4





EXISTING GENERATOR PAD & 150 KW
120/240V KATOLIGHT GENERATOR

CONTRACTOR TO BLAST AND
PREPARE INTERIOR AND
EXTERIOR SURFACES FOR
EACH PRESSURE SAND FILTER,
(TYP. OF 3)

CONTRACTOR TO REMOVE
ARV'S ON PRESSURE SAND
FILTERS, (TYP. OF 3)

CONTRACTOR TO REMOVE 36" MANWAY,
BOLTS & NUTS, GASKET, AND VERIFY SEAL
FIT WITH EXISTING MANWAY HATCH.
CONTRACTOR TO INSPECT UNDERDRAIN
AND REPLACE WHERE NEEDED (TYP. OF 3)

CONTRACTOR TO REMOVE
FILTER MEDIA, (TYP. OF 3)

CONTRACTOR TO REMOVE ACTUATOR
JUNCTION BOXES (TYP.)

CONTRACTOR TO REMOVE 8" WATER METER

CONTRACTOR SHALL INVESTIGATE 8" GATE VALVE AND REMOVE IF UNUSABLE

CONTRACTOR TO REMOVE PH METER AND VERIFY WIRE CONTINUITY

CONTRACTOR TO REMOVE BLOWER

CONTRACTOR TO REMOVE DAMAGED SCREENS & CLEAN OR REPLACE INTERNAL COMPONENTS NECESSARY TO PROVIDE FULLY FUNCTIONING AERATOR.

REMOVE ELECTRO-MAGNETIC BACKWASH FLOW METER TRANSMITTER

CONTRACTOR SHALL POTHOLE CHLORINE, LIME, PERMANGANATE, AND SPARE TAPS TO STATIC MIXER

CONTRACTOR SHALL INVESTIGATE 12" STATIC MIXER CONDITION AND REPORT FINDING TO THE ENGINEER PRIOR TO CONSTRUCTION

CONTRACTOR TO REMOVE PLYWOOD PANELS

CONTRACTOR SHALL INVESTIGATE CL2 LEAK DETECTOR AND REMOVE & REPLACE PER OSHA AND 10 STATES STANDARDS REQUIREMENTS IF DEFECTIVE

REMOVE EXIST. INSTRUMENT PANEL (SEE DETAILS SHT. C-7)

CONTRACTOR TO EXIST. REMOVE 15 H.P. PUMP

CONTRACTOR TO REMOVE PANEL BOARD "B" & "C", BREAKERS, AND WIRING

CONTRACTOR TO REMOVE 8" SENSUS WATER METER

CONTRACTOR TO REMOVE LIME FEEDER WITH 2'X2'X6" PAD

CONTRACTOR TO REMOVE PRESSURE GAUGE

CONTRACTOR TO REMOVE 30 H.P. PUMP

CONTRACTOR TO REMOVE SCALETRON DIGITAL POTASSIUM PERMANGANATE SCALE CONTROLLER

CONTRACTOR TO REMOVE GATE VALVES & CHECK VALVES. REUSE RESTRAINTS IF POSSIBLE. OTHERWISE, REMOVE & REPLACE.

CONTRACTOR TO REMOVE PRESSURE GAUGE

CONTRACTOR TO REMOVE CLEARWELL HATCHES

REMOVE EXISTING 240V MOTOR CONTROL CENTER, FEEDER BREAKER, QOBVF BREAKERS, VFD'S, ETC.

CONTRACTOR TO REMOVE CONCRETE STAIRS

PLAN VIEW

SCALE: 1" = 3'

FITTING SCHEDULE	
(A)	8" TEE
(B)	8" 90° BEND
(C)	8"X6" 90° BEND
(D)	8"X6" TEE
(E)	6" 90° BEND
(F)	6" GATE VALVE WITH ACTUATOR
(G)	6" GATE VALVE WITH HAND WHEEL
(H)	6" TEE
(I)	8" FLG'D CHECK VALVE
(J)	8" FLG'D GATE VALVE
(K)	8" PIPE RESTRAINT
(L)	8" X 6" REDUCER

WELL NO. 1 DEMOLITION PLAN

Scale: 1" = 3'

NOTES:

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- SEE DOOR AND WINDOW SCHEDULE ON SHT. C-13 FOR ALL DOOR, WINDOW, LOUVER, VENT AND FAN DIMENSIONS.



REVISIONS	
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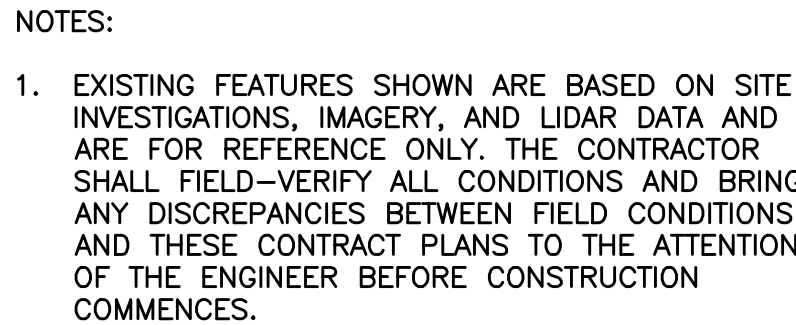
WELL NO. 1 DEMOLITION PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
301 N. Dickson St.
Tusculum, AL 35674
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

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C-5

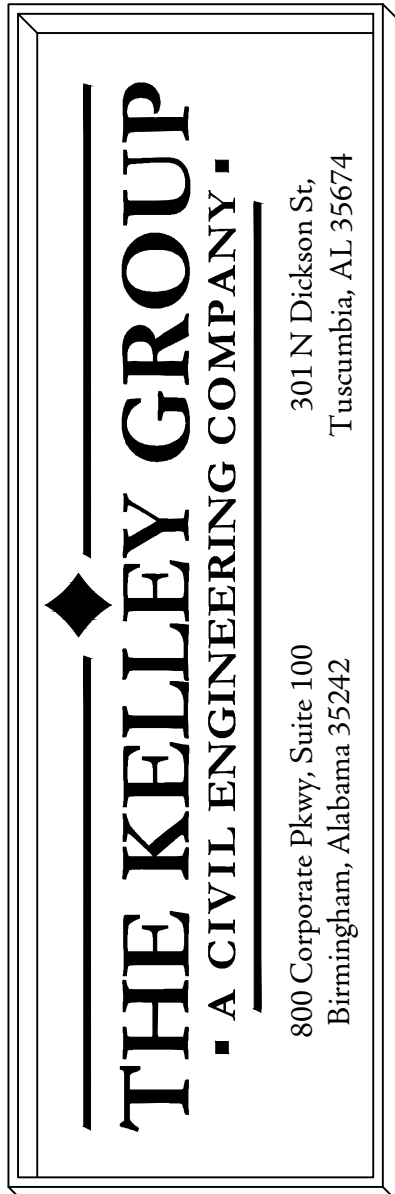


REVISIONS			
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WELL NO. 1 DEMOLITION PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

FITTING SCHEDULE	
(A)	8" TEE
(B)	8" 90° BEND
(C)	8"x6" 90° BEND
(D)	8"x6" TEE
(E)	6" 90° BEND
(F)	6" GATE VALVE WITH ACTUATOR
(G)	6" GATE VALVE WITH HAND WHEEL
(H)	6" TEE
(I)	8" FLG'D CHECK VALVE
(J)	8" FLG'D GATE VALVE

(K)	8" PIPE RESTRAINT
(L)	8" X 6" REDUCER



ATTENTION:
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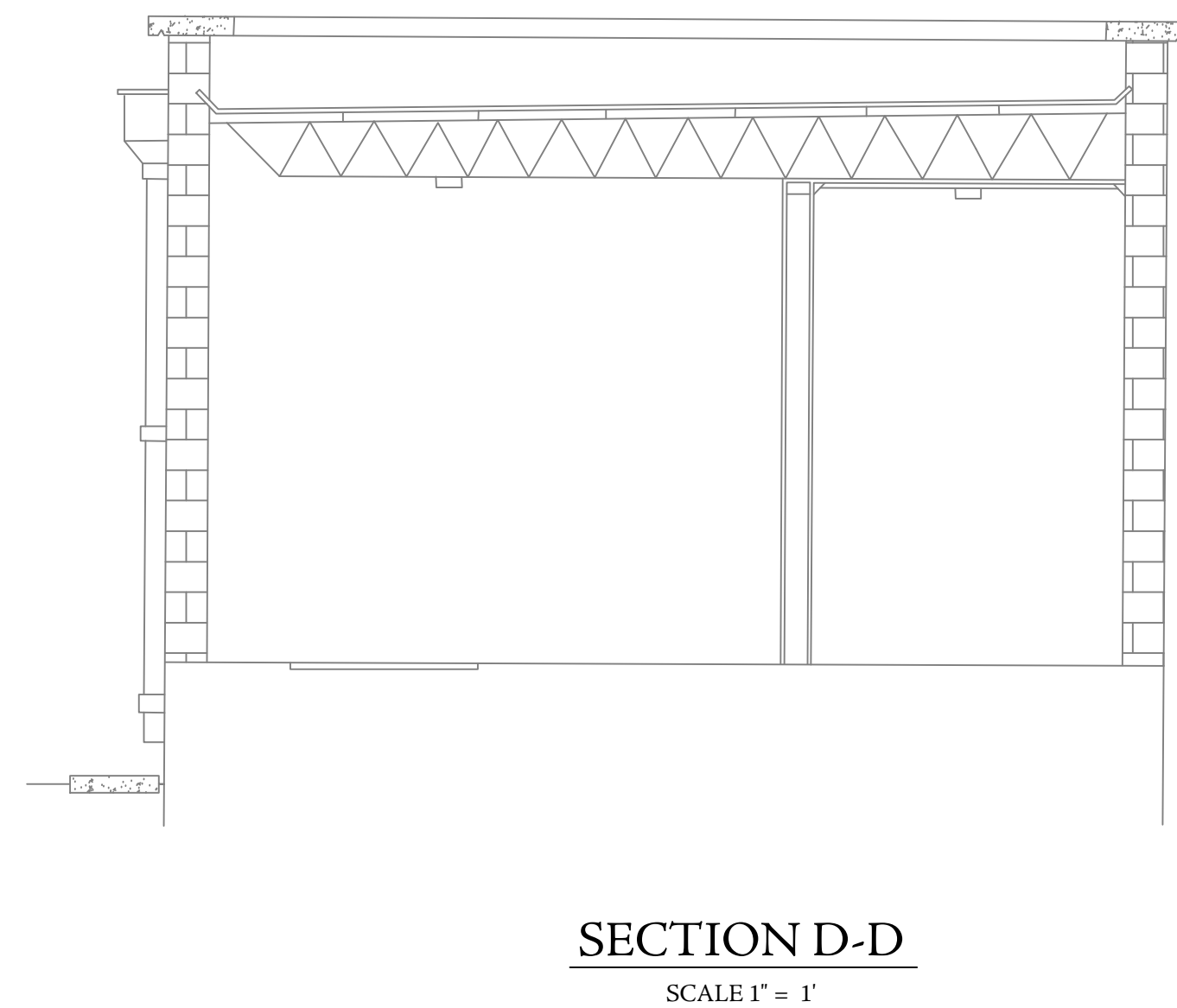
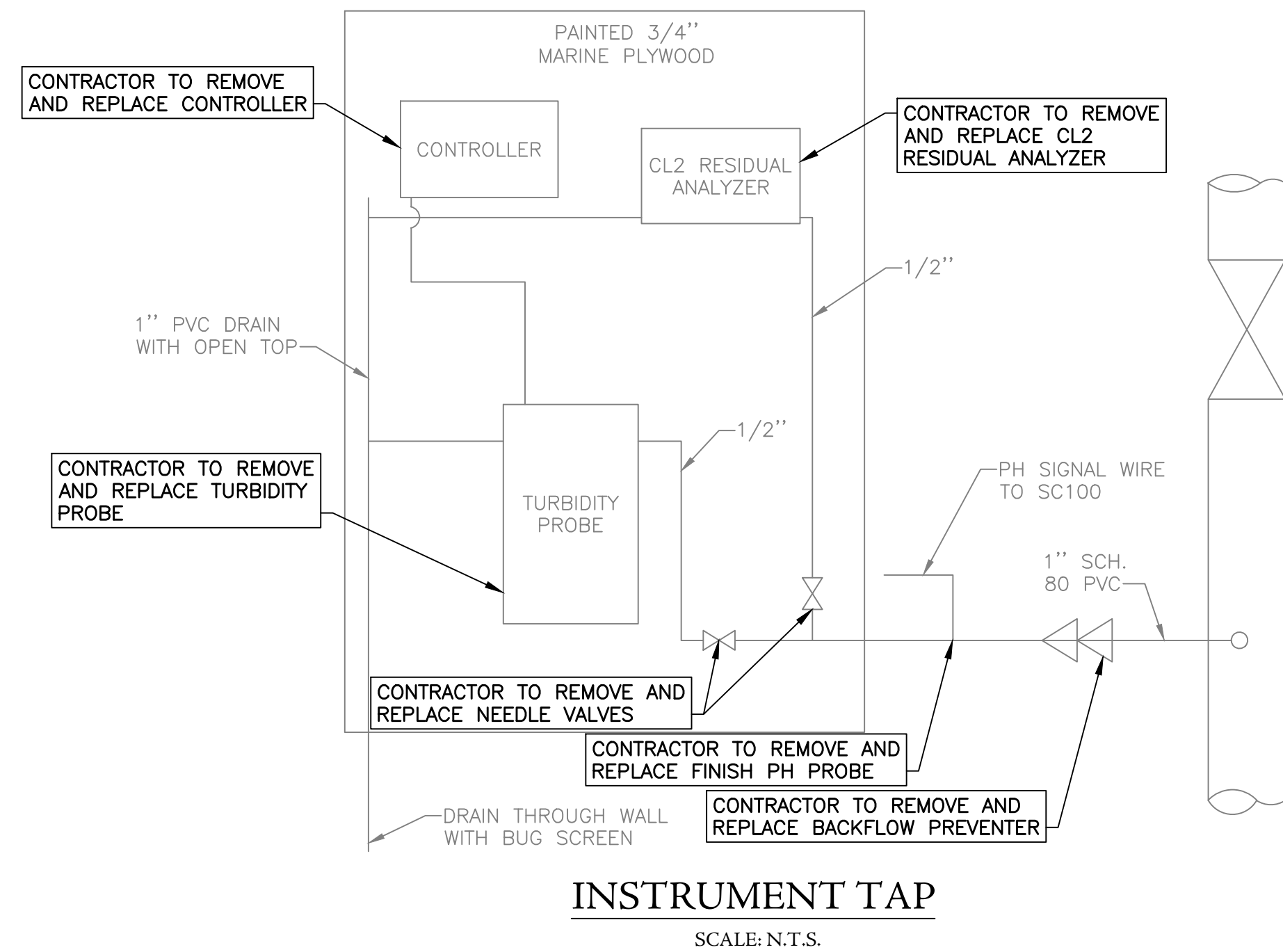
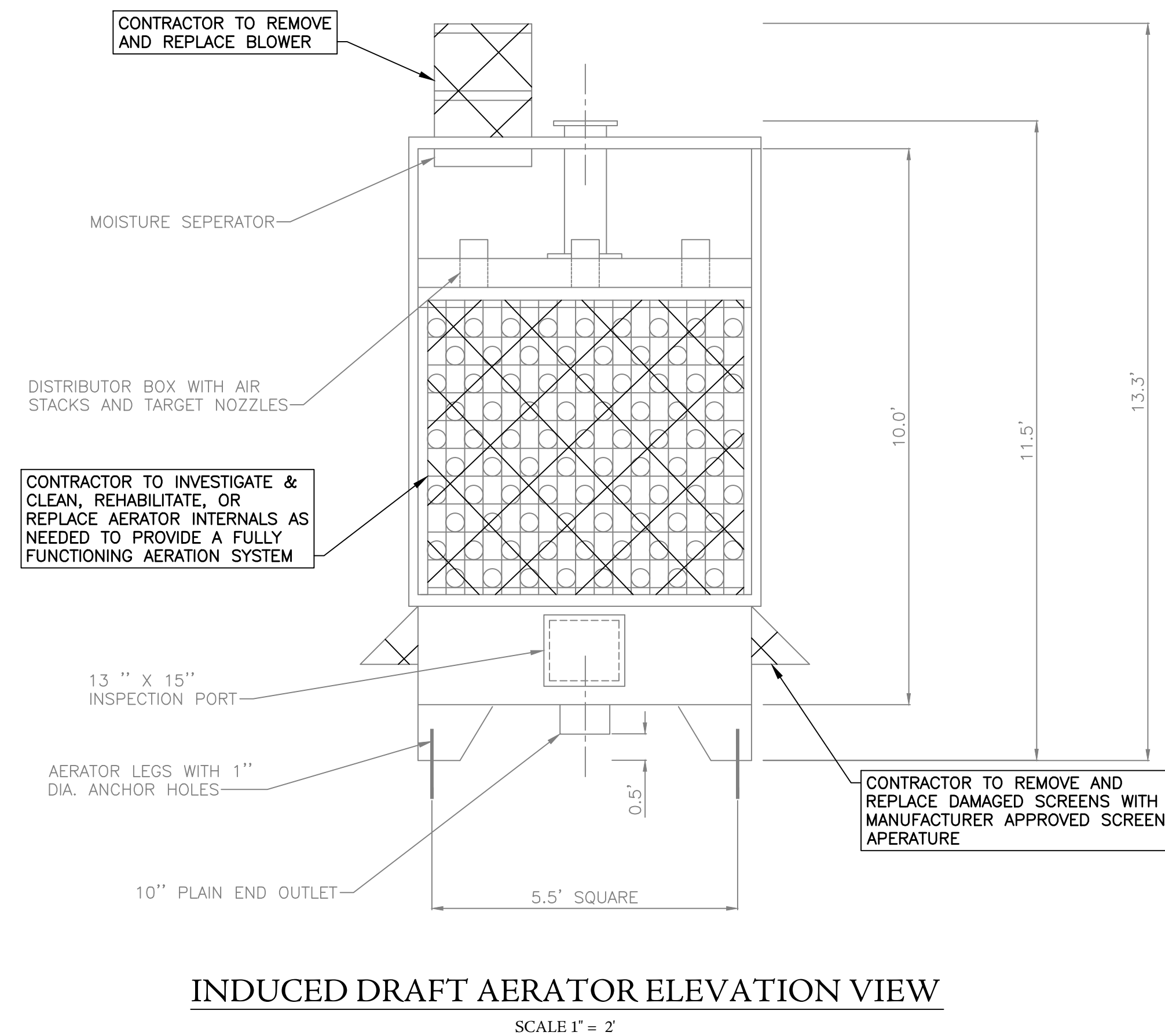
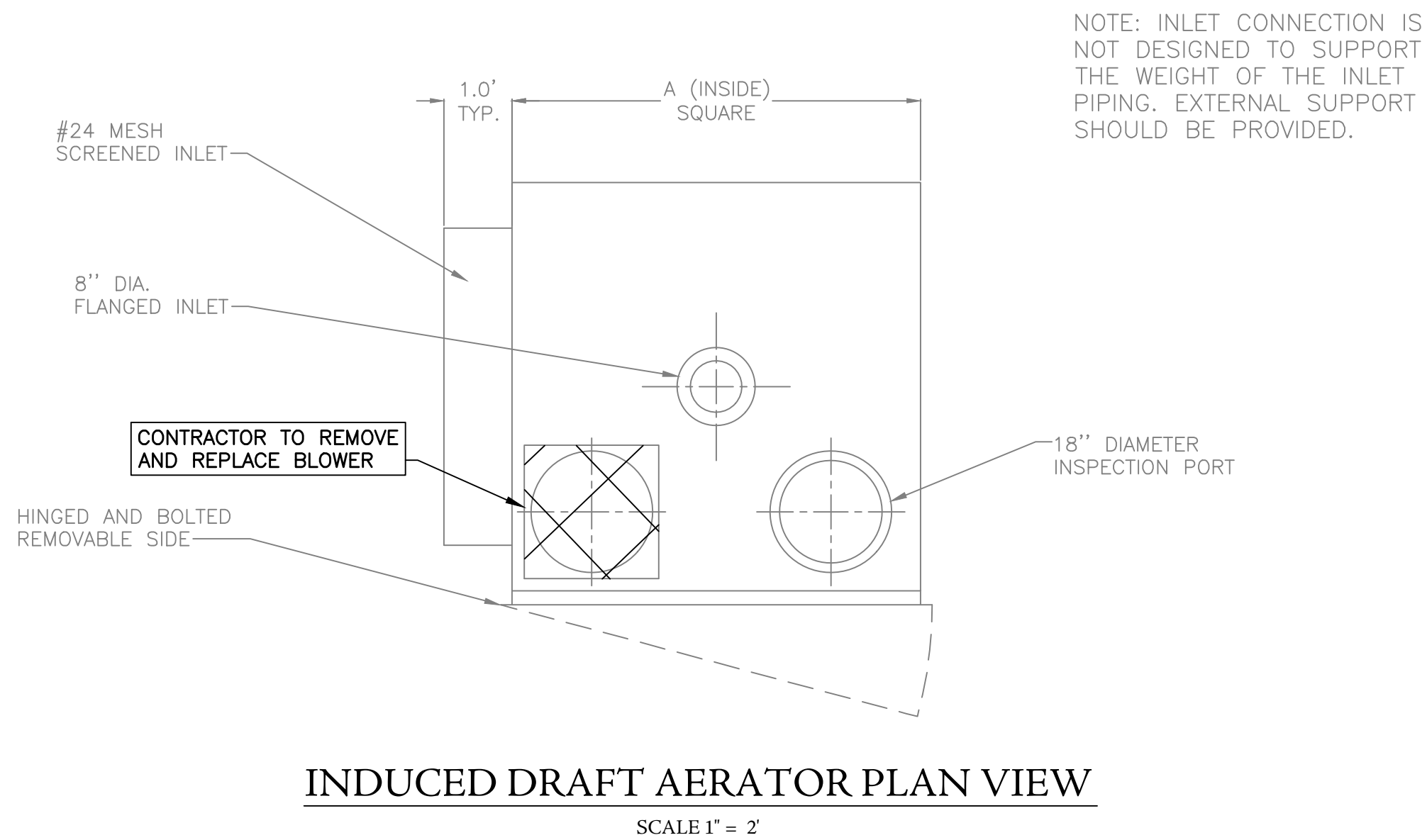
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 DATE: 06/2026

SHEET NO.
C-6



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REVISIONS		DATE	BY
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WELL NO. 1 DEMOLITION PLAN

DALLAS COUNTY DWSRF 2022

DALLAS COUNTY WATER & SEWER AUTHORITY

DALLAS COUNTY

ALABAMA

THE KELLEY GROUP

A CIVIL ENGINEERING COMPANY

301 N. Dickson St.
Tusculum, AL 35674

800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

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1"

PROJECT NO: 22-0020

DRAWN BY: TCW

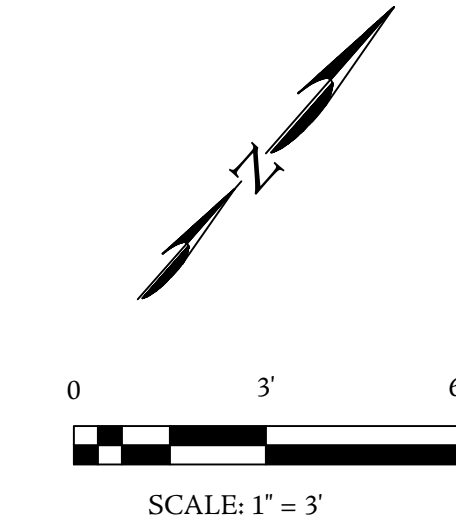
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SCALE: AS NOTED

DATE: 06/2026

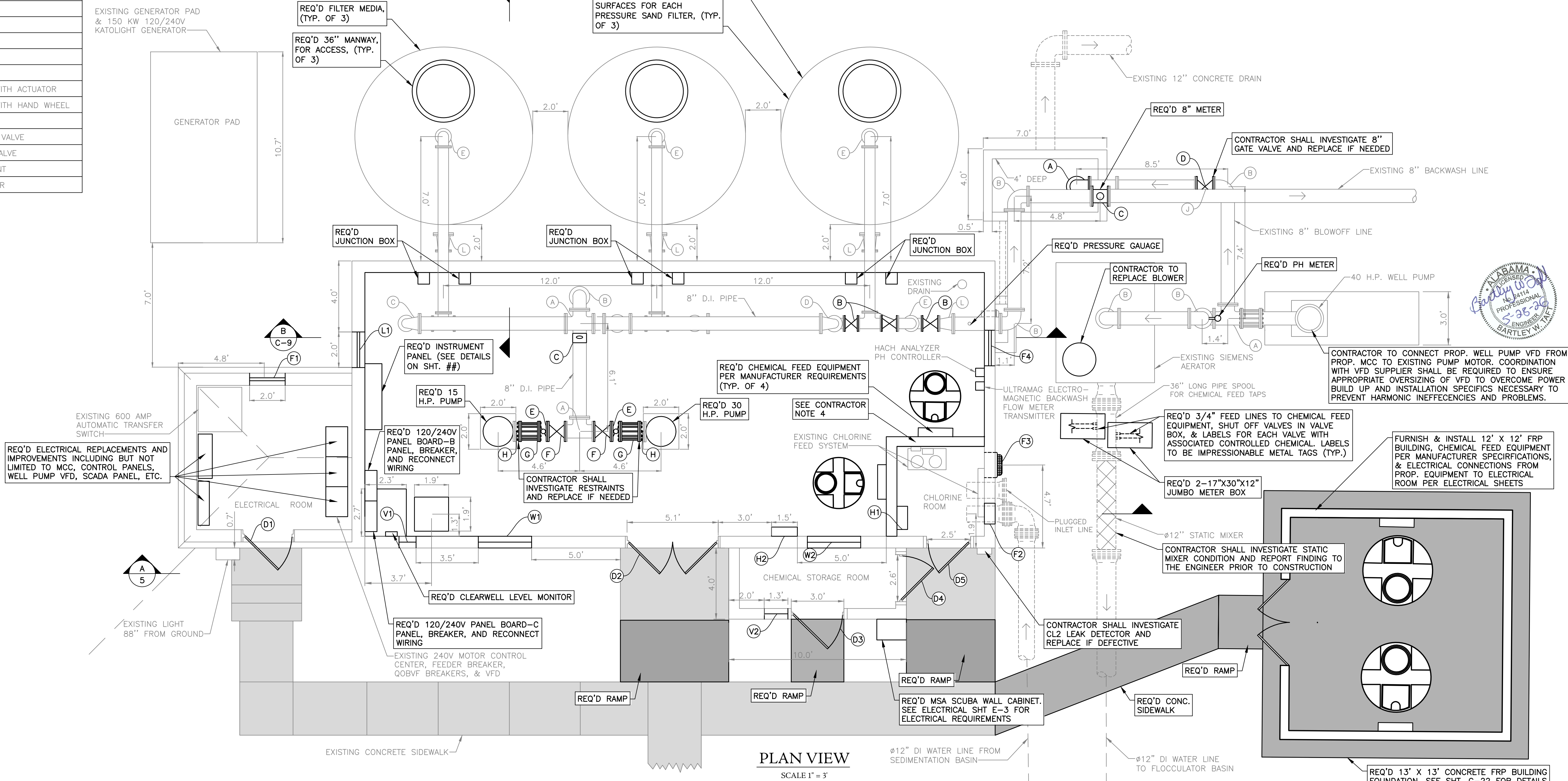
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C-7



ITEM	QTY	DESCRIPTION	MAT'L & SIZE
(A)	1	90° BEND	8" D.I.
(B)	13	GATE VALVE W/ ACTUATOR	6" D.I.
(C)	2	WATER METER	8" D.I.
(D)	1	GATE VALVE	8" D.I.
(E)	2	FLANGED CHECK VALVE	8" D.I.
(F)	2	FLANGED GATE VALVE	8" D.I.
(G)		PIPE RESTRAINT	8" D.I.
(H)	1	PRESSURE GAUGE	

FITTING SCHEDULE	
(A)	8" TEE
(B)	8" 90° BEND
(C)	8"x6" 90° BEND
(D)	8"x6" TEE
(E)	6" 90° BEND
(F)	6" GATE VALVE WITH ACTUATOR
(G)	6" GATE VALVE WITH HAND WHEEL
(H)	6" TEE
(I)	8" FLG'D CHECK VALVE
(J)	8" FLG'D GATE VALVE
(K)	8" PIPE RESTRAINT
(L)	8" X 6" REDUCER



PLAN VIEW
SCALE 1" = 3'

NOTES:

- THE CONTRACTOR IS EXPRESSLY ADVISED THAT THE EXISTING INDUCED DRAFT AERATOR AND PRESSURE FILTER TANKS WERE INSTALLED UNDER HISTORICAL CONTRACTS. ORIGINAL AS-BUILT DRAWINGS, MANUFACTURER SUBMITTALS, AND OPERATION & MAINTENANCE (O&M) MANUALS ARE EITHER SEVERELY LIMITED, INCOMPLETE, OR ENTIRELY UNAVAILABLE. ALL DIMENSIONS, CAPACITIES, AND CONFIGURATIONS INDICATED ON THESE CONTRACT DRAWINGS ARE APPROXIMATE AND PROVIDED FOR GENERAL REFERENCE ONLY.
- THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE PHYSICAL VERIFICATION OF ALL EXISTING CONDITIONS. PRIOR TO THE PROCUREMENT OF ANY MATERIALS, MEDIA, COATINGS, OR MECHANICAL COMPONENTS, AND PRIOR TO ANY DEMOLITION, THE CONTRACTOR SHALL EXECUTE A COMPREHENSIVE PHYSICAL FIELD INVESTIGATION OF THE INDUCED DRAFT AERATOR AND PRESSURE FILTER TANKS. THIS MUST INCLUDE DRAINING, CLEANING, AND CONFINED-SPACE ENTRY AS REQUIRED TO VERIFY INTERNAL GEOMETRIES.
- BECAUSE OF THE LACK OF HISTORICAL DATA, THE CONTRACTOR SHALL NOT RELY SOLELY ON VISUAL INSPECTION. THE CONTRACTOR MUST ENGAGE THE ORIGINAL EQUIPMENT MANUFACTURER (OEM), OR A HIGHLY QUALIFIED EQUIVALENT MANUFACTURER'S REPRESENTATIVE, TO PERFORM A JOINT EVALUATION OF THE EXISTING EQUIPMENT.
 - INDUCED DRAFT AERATOR: THE CONTRACTOR AND MANUFACTURER SHALL JOINTLY VERIFY EXISTING SLATTED TRAY CONFIGURATIONS, BLOWER MOUNTING DIMENSIONS, DRAFT FAN MOTOR SIZING, STRUCTURAL ATTACHMENT POINTS, AND OVERALL VESSEL INTEGRITY TO ENSURE NEWLY SUPPLIED COMPONENTS WILL MATE SEAMLESSLY AND ACHIEVE THE REQUIRED PROCESS AIRFLOW.
 - PRESSURE FILTER TANKS: THE CONTRACTOR AND MANUFACTURER SHALL PHYSICALLY VERIFY THE EXISTING UNDERDRAIN/LATERAL CONFIGURATIONS, MEDIA VOLUME REQUIREMENTS, INTERIOR SHELL DIMENSIONS, MANWAY BOLT PATTERNS, AND SURFACE STRUCTURAL INTEGRITY PRIOR TO FINALIZING THE MEDIA REPLACEMENT AND RECOATING STRATEGY.
- FOLLOWING THE FIELD INVESTIGATION AND MANUFACTURER CONSULTATION, THE CONTRACTOR SHALL SUBMIT A COMPREHENSIVE "REHABILITATION WORK PLAN" ALONGSIDE DETAILED MANUFACTURER SHOP DRAWINGS TO THE ENGINEER FOR FORMAL REVIEW. THE SUBMITTAL MUST EXPLICITLY IDENTIFY ANY DEVIATIONS FROM THE ANTICIPATED SCOPE CAUSED BY THE ACTUAL FIELD CONDITIONS DISCOVERED.
- THE BURDEN OF ENSURING THAT ALL NEW COMPONENTS, MEDIA, AND HARDWARE PROPERLY FIT AND FUNCTION WITHIN THE EXISTING INFRASTRUCTURE RESTS ENTIRELY WITH THE CONTRACTOR. FAILURE BY THE CONTRACTOR TO THOROUGHLY INVESTIGATE THE EXISTING CONDITIONS, TAKE ACCURATE FIELD MEASUREMENTS, OR CONSULT WITH THE EQUIPMENT MANUFACTURER PRIOR TO ORDERING MATERIALS SHALL NOT CONSTITUTE GROUNDS FOR ADDITIONAL COMPENSATION, SCHEDULE EXTENSIONS, OR CHANGE ORDERS DUE TO DIMENSIONAL, STRUCTURAL, OR MECHANICAL INCOMPATIBILITIES IN THE FIELD.
- SEE DOOR AND WINDOW SCHEDULE ON SHT. C-13 FOR ALL DOOR, WINDOW, LOUVER, VENT AND FAN DIMENSIONS.

C-9

WELL NO. 1 IMPROVEMENTS PLAN

Scale: 1" = 3'

CONTRACTOR NOTES:

- CONTRACTOR SHALL CLEAN, PREPARE, AND REPAINT ALL EXPOSED POTABLE WATER PIPING WITHIN THE PIPE GALLERY. SURFACE PREPARATION SHALL INCLUDE REMOVAL OF ALL DIRT, GREASE, SCALE, RUST, AND EXISTING DETERIORATED COATINGS BY MECHANICAL OR ABRASIVE BLASTING METHODS AS REQUIRED TO ACHIEVE A SOUND, CLEAN SUBSTRATE SUITABLE FOR COATING APPLICATION. FOLLOWING PREPARATION, ALL PIPING SHALL RECEIVE PRIMER AND FINISH COATING SYSTEMS IN ACCORDANCE WITH THE REFERENCED COATING SPECIFICATIONS. COATINGS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS FOR SURFACE PROFILE, ENVIRONMENTAL CONDITIONS, AND FILM THICKNESS TO ENSURE LONG-TERM CORROSION PROTECTION IN A POTABLE WATER ENVIRONMENT.
- ALL POTABLE WATER PIPING SHALL BE COLOR CODED AND CLEARLY IDENTIFIED. FINAL COATING COLOR SHALL CONFORM TO POTABLE WATER IDENTIFICATION STANDARDS, AND CONTRACTOR SHALL STENCIL PIPE CONTENTS ("POTABLE WATER") AND INDICATE FLOW DIRECTION WITH ARROWS AT REGULAR INTERVALS, AT VALVES, AND AT ALL CHANGES IN DIRECTION. STENCILING SHALL BE LEGIBLE, DURABLE, AND COMPATIBLE WITH THE COATING SYSTEM. COLOR CODING AND IDENTIFICATION SHALL BE CONSISTENT THROUGHOUT THE PIPE GALLERY AND COORDINATED WITH OWNER REQUIREMENTS.
- AS PART OF THIS WORK, CONTRACTOR SHALL REPLACE ALL NUTS, BOLTS, WASHERS, AND GASKETS ASSOCIATED WITH THE PIPING SYSTEMS WITHIN THE PIPE GALLERY. FASTENERS SHALL BE REPLACED WITH NEW CORROSION-RESISTANT MATERIALS SUITABLE FOR THE ENVIRONMENT, AND GASKETS SHALL BE REPLACED WITH MATERIALS COMPATIBLE WITH POTABLE WATER SERVICE. INSTALLATION SHALL ENSURE PROPER ALIGNMENT AND UNIFORM BOLT LOADING TO PREVENT LEAKAGE. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REFERENCED SPECIFICATIONS FOR SURFACE PREPARATION, COATING APPLICATION, AND PIPE GALLERY REQUIREMENTS, AND SHALL RESULT IN A COMPLETE, OPERATIONAL, AND PROPERLY IDENTIFIED PIPING SYSTEM.
- CONTRACTOR TO REMOVE AND REPLACE EXISTING PLYWOOD WALLS ISOLATING CHLORINE ROOM FROM REMAINDER OF WELL HOUSE. SPECIAL CARE SHALL BE TAKEN TO DISCONNECT EXISTING CHLORINE FEED EQUIPMENT IN WORKING CONDITION AND TO REINSTALL UPON WALL ERECTMENT.

WELL NO. 1 IMPROVEMENTS PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242
301 N. Dickson St.
Tusculum, AL 35674

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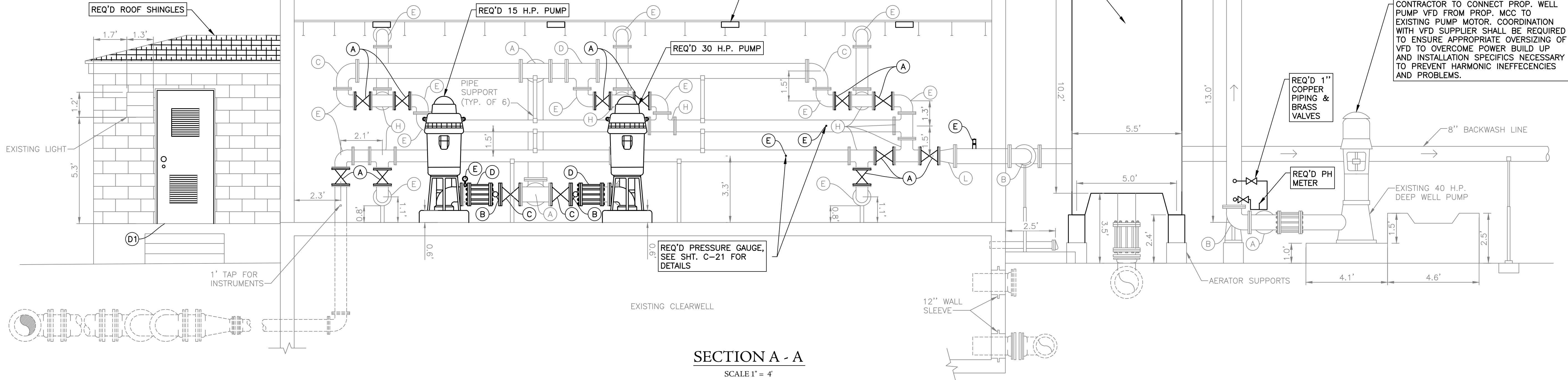
PROJECT NO: 22-0020
DRAWN BY: TCW
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DATE: 06/2026

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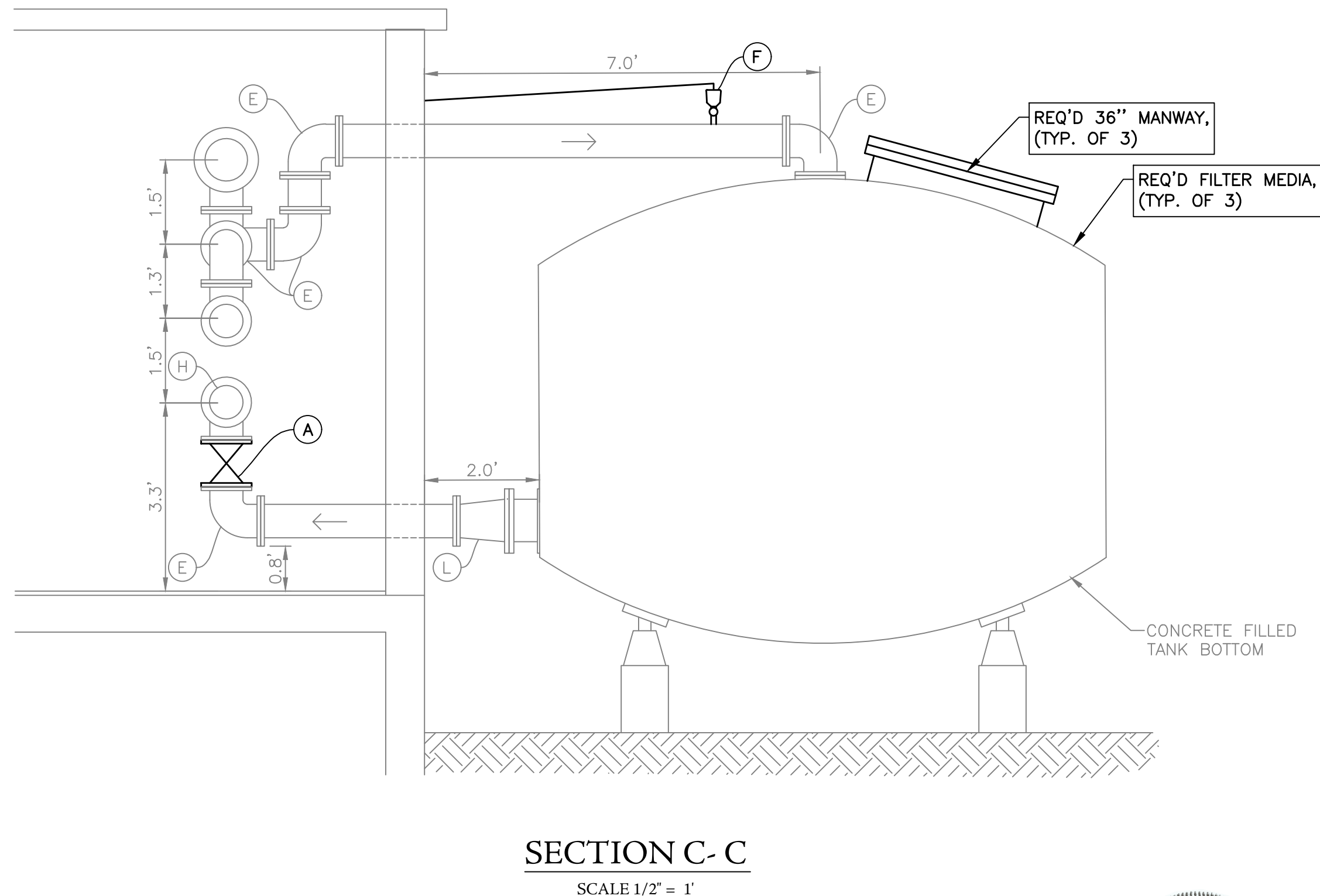
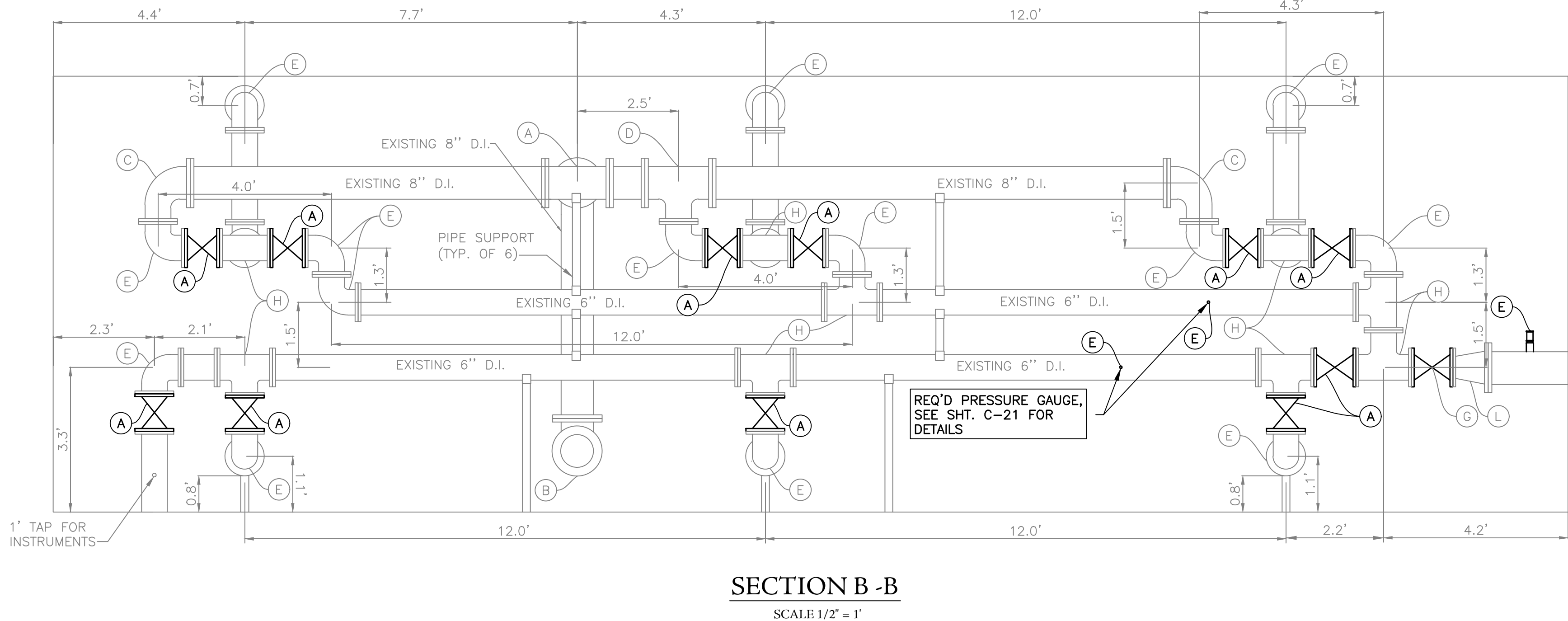
RA:20221220020 - DALLAS COUNTY DWSRF 2022170CAD\\PRODUCTION PLANTP02 - WELL NO.1.DWG

ITEM	QTY	DESCRIPTION	MAT'L & SIZE
(A)	12	GATE VALVE W/ ACTUATOR	6" D.I.
(B)	2	FLANGED CHECK VALVE	8" D.I.
(C)	2	FLANGED GATE VALVE	8" D.I.
(D)	2	PIPE RESTRAINT	8" D.I.
(E)	4	PRESSURE GAUGE	
(F)	1	AIR RELIEF VALVE	
(D1)	1	ELECTRICAL ROOM DOOR	



FITTING SCHEDULE	
(A)	8" TEE
(B)	8" 90° BEND
(C)	8"x6" 90° BEND
(D)	8"x6" TEE
(E)	6" 90° BEND
(F)	6" GATE VALVE WITH ACTUATOR
(G)	6" GATE VALVE WITH HAND WHEEL
(H)	6" TEE
(I)	8" FLG'D CHECK VALVE
(J)	8" FLG'D GATE VALVE

(K)	8" PIPE RESTRAINT
(L)	8" X 6" REDUCER



NOTES:

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WELL NO. 1 IMPROVEMENTS PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242
301 N Dickson St.
Tusculum, AL 35674

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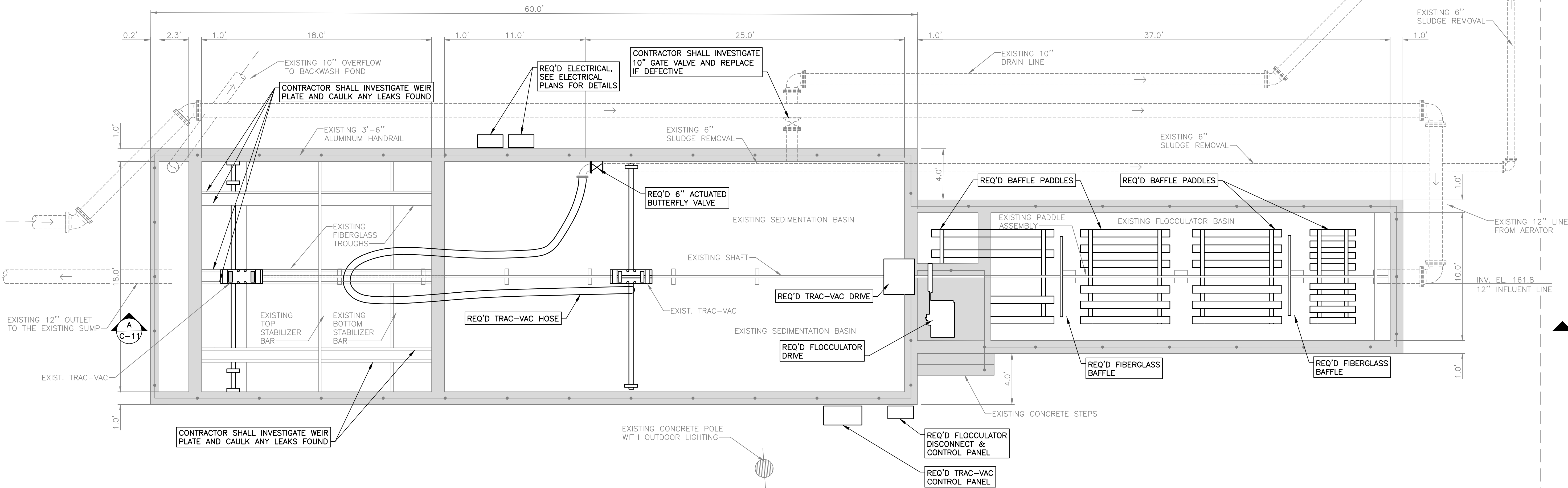
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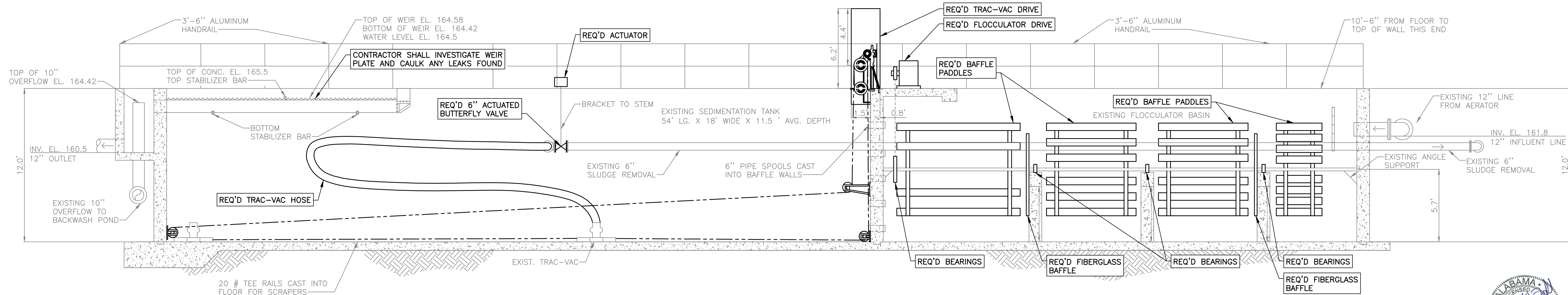
NOTES:

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PLAN VIEW - FLOCCULATOR AND SEDIMENTATION BASIN

SCALE 1" = 4'



SECTION A - A

SCALE 1" = 4'

C-11

WELL NO. 1 SED. BASIN IMPROVEMENTS PLAN

Scale: 1" = 4'

R:\2022\220020 - DALLAS COUNTY DWSRF 2022\7\CAD\PRODUCTION PLANT\03 - WELL NO.1.DWG

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WELL NO. 1 SED. BASIN IMPROVEMENTS PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
- A CIVIL ENGINEERING COMPANY -
301 N. Dickson St.
Tusculum, AL 35674
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

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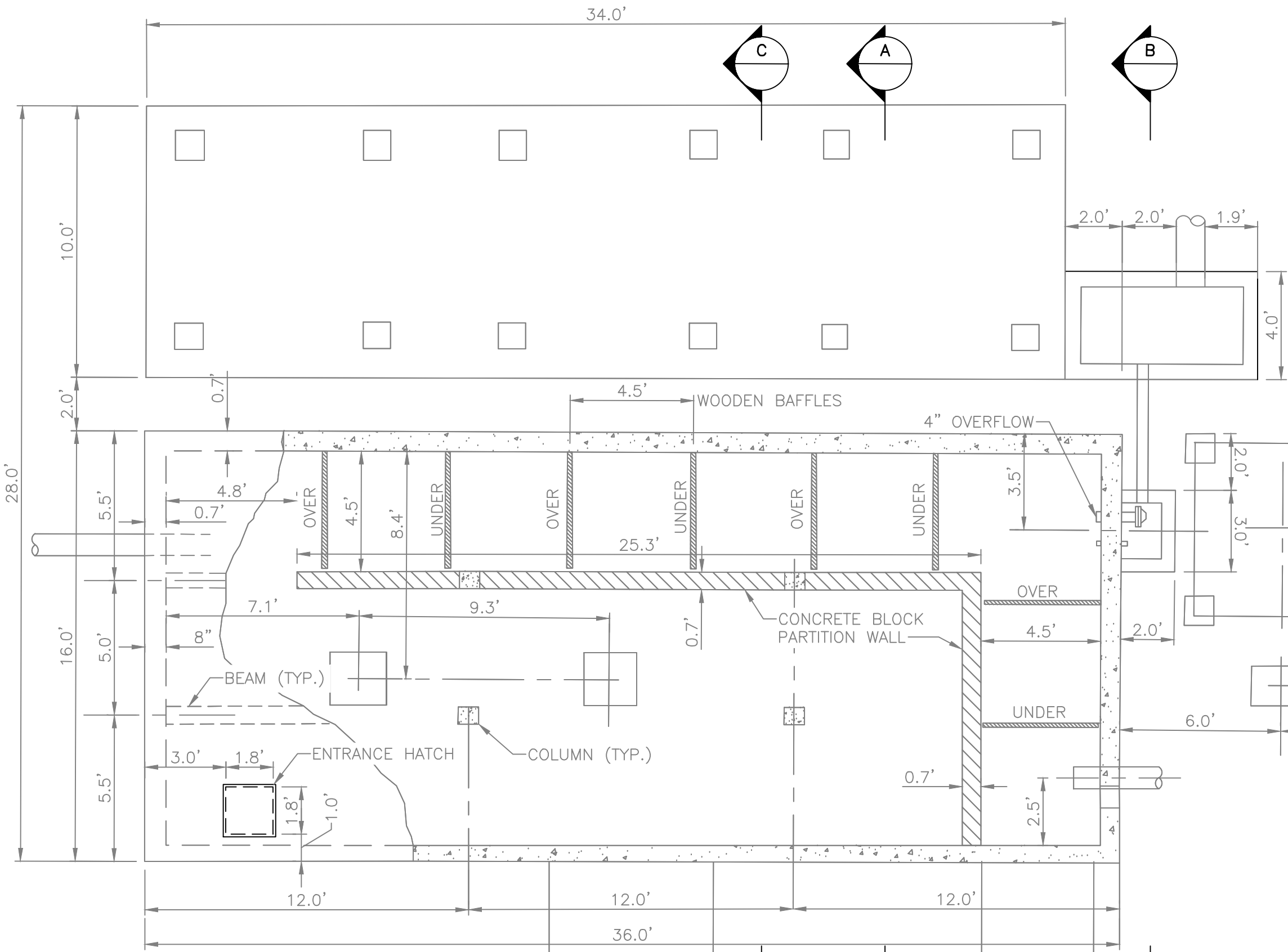
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SHEET NO.
C-11



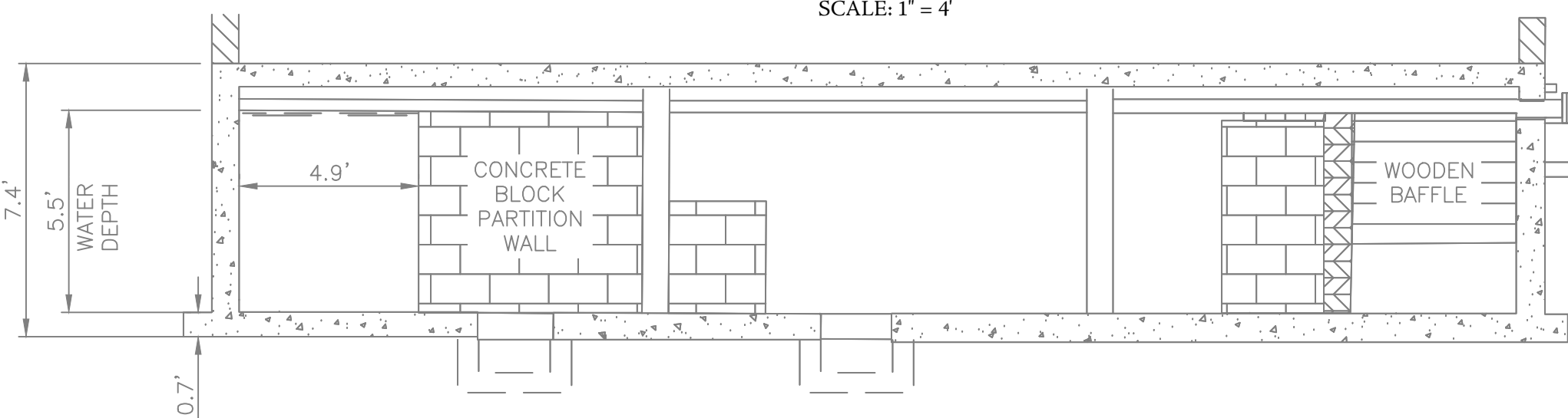
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RAJ20221220020 - DALLAS COUNTY DWSRF 2022/06/AD/PRODUCTION PLAN/CW01 - WELL 1 DETAILS.DWG



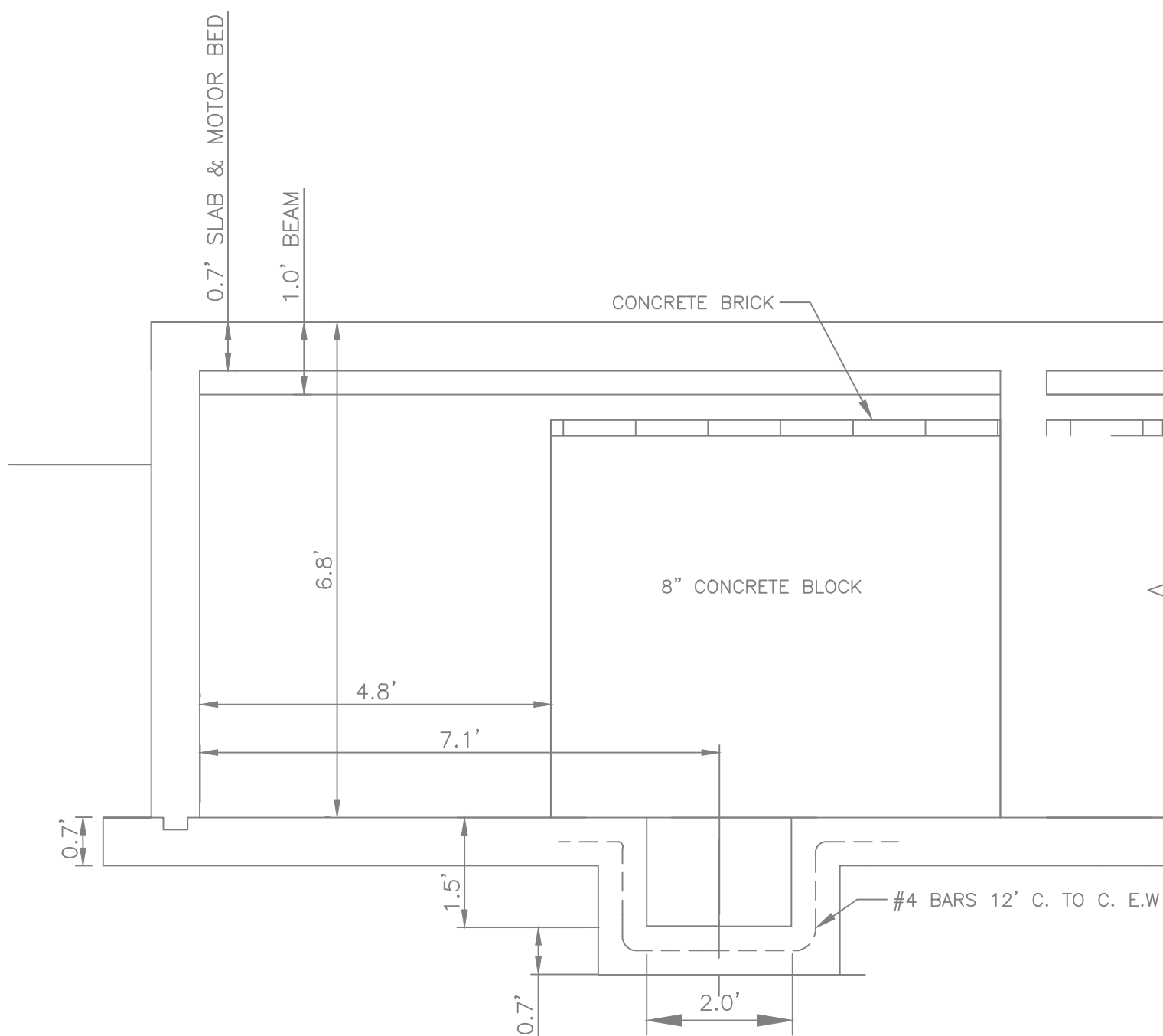
PLAN OF CONTACT BASIN

SCALE: 1" = 4"



LONGITUDINAL SECTION THRU CONTACT BASIN

SCALE: 1" = 4"



PARTIAL LONGITUDINAL SECTION

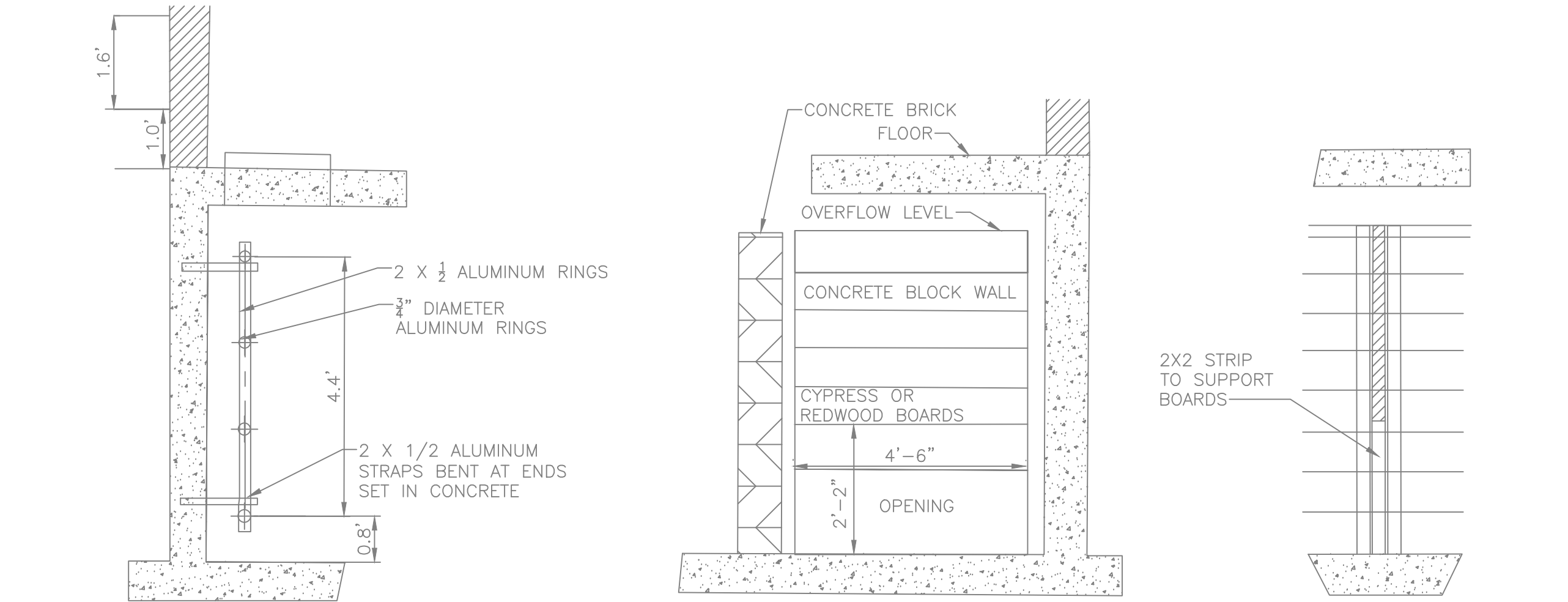
SCALE: 1" = 2"

NOTES:

- EXISTING FEATURES SHOWN ARE BASED ON SITE INVESTIGATIONS, IMAGERY, AND LIDAR DATA AND ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL FIELD-VERIFY ALL CONDITIONS AND BRING ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE CONTRACT PLANS TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION COMMENCES.

AUXILIARY ENGINE DRIVE FOR PLANT NO. 1 ONLY. DESIGN OF FOUNDATION BY ENGINE MANUFACTURER

NOTE
SPACE #4 BARS & DOWELS 6" C. TO C.
UNDER ENGINE FOUNDATION IN PLANT NO. 1



DETAILS OF HATCH AND LADDER

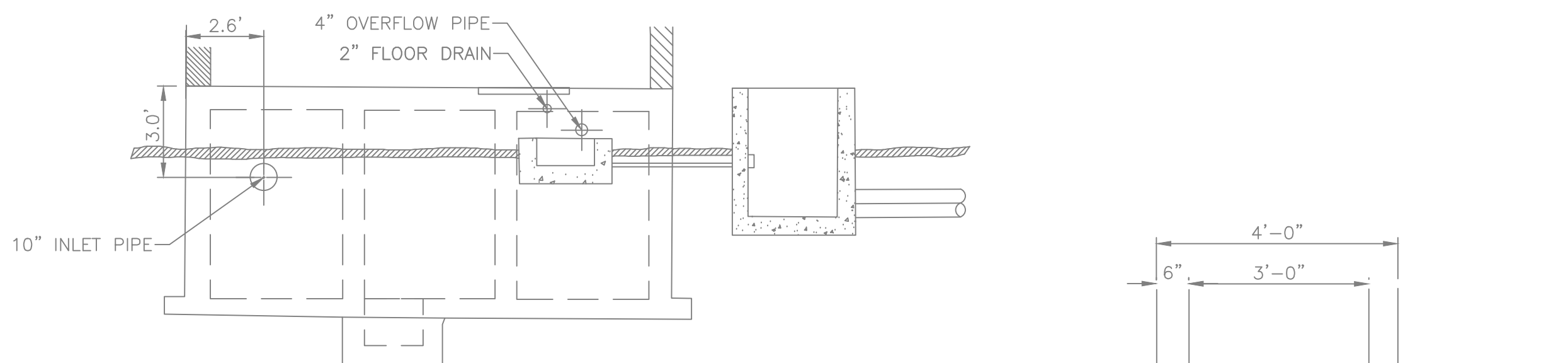
SCALE: 1" = 2"

DETAIL OF BAFFLES

SCALE: 1" = 2"

SECTION THRU BAFFLE

SCALE: 1" = 2"

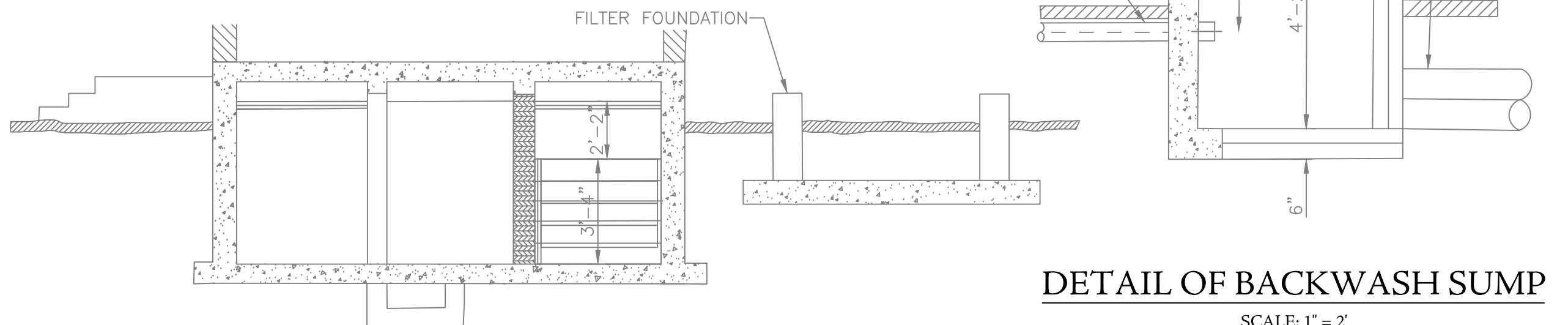


SECTION B-B

SCALE: 1" = 4"

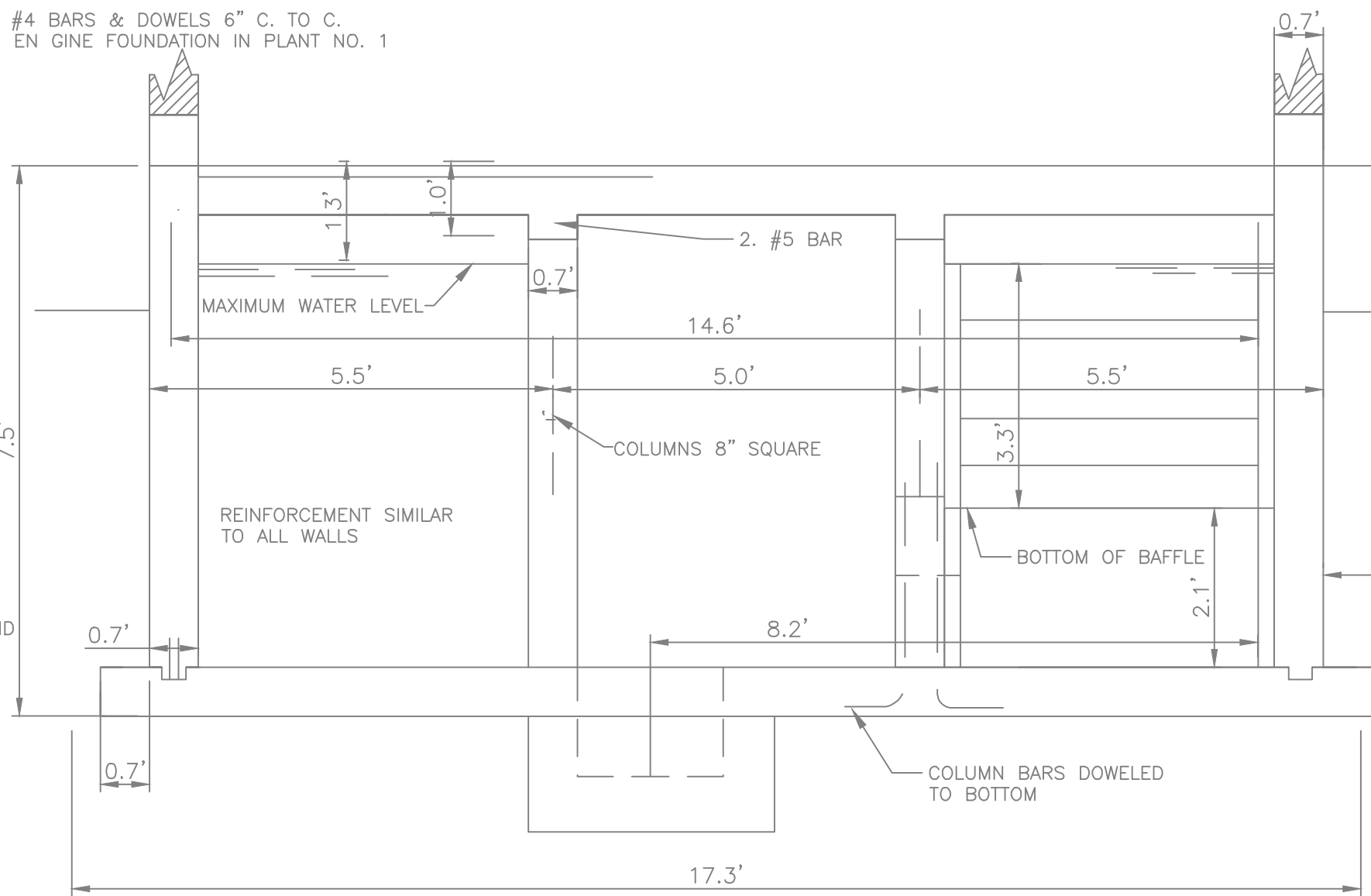
DETAIL OF BACKWASH SUMP

SCALE: 1" = 2"



SECTION A-A

SCALE: 1" = 4"



TRANSVERSE SECTION C-C

SCALE: 1" = 2"

CONTRACTOR NOTE:

CONTRACTOR SHALL INSPECT THE EXISTING CLEARWELL, BAFFLES, AND PARTITION WALLS TO VERIFY HYDRAULIC INTEGRITY AND IDENTIFY ANY SHORT-CIRCUITING. CONTRACTOR SHALL CLEAN ALL INTERIOR SURFACES; REMOVE AND PROPERLY DISPOSE OF ALL SEDIMENT, ORGANIC MATERIAL, AND DEBRIS ACCUMULATED SINCE ORIGINAL CONSTRUCTION; AND REHABILITATE OR REPLACE DAMAGED WALLS, BAFFLES, ETC.



REVISIONS		DATE	BY
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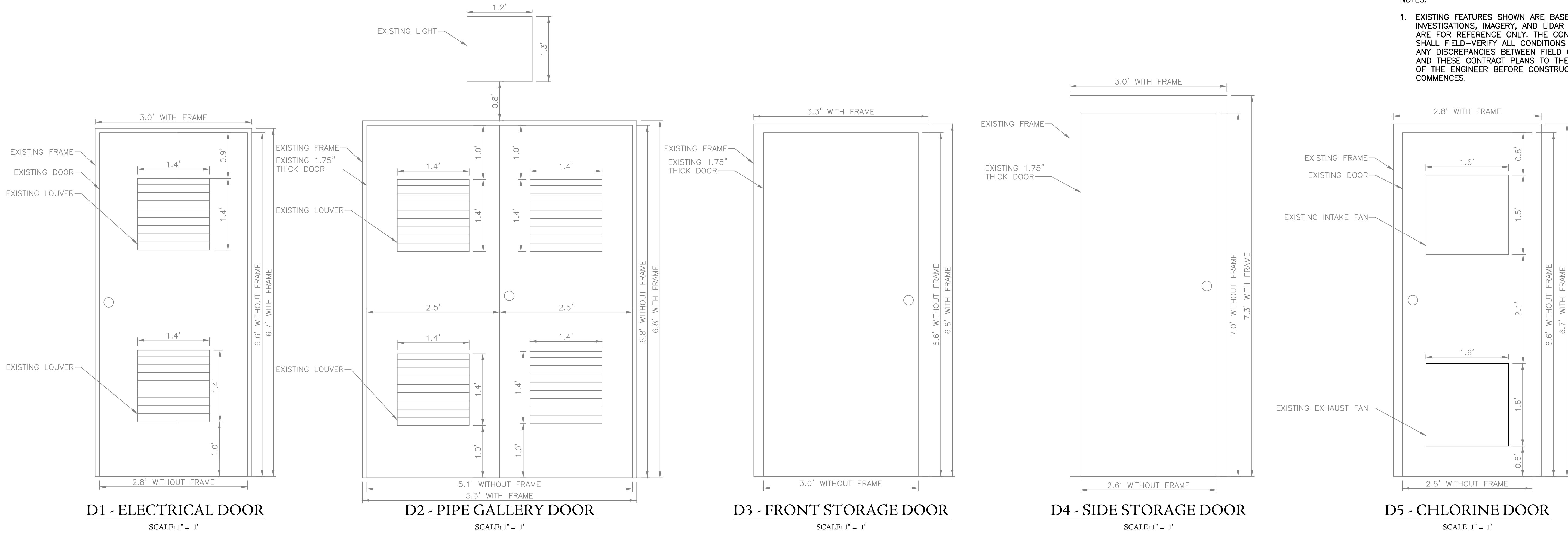
WELL NO. 1 CLEARWELL PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
301 N. Dickson St.
Tusculum, Alabama 35242
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

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DATE: 06/2026

SHEET NO.
C-12



- NOTES:
- GALVANIZED METAL TO BE PROVIDED FOR HOLLOW METAL DOOR AND/OR FRAME AT EXTERIOR LOCATION.
 - DOORS ARE 1-3/4" THICK UNLESS OTHERWISE NOTED.
 - ALL HALLOW METAL DOORS AND FRAMES SHALL BE PAINTED W/ PRIMER AND TWO COATS ALKYD ENAMEL.
 - ALL HOLLOW METAL DOOR FRAMES ARE TO BE WELDED. NO KNOCK DOWN FRAMES PERMITTED.
 - ALL EXTERIOR DOORS TO HAVE NON-REMOVABLE PINS.
 - CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO KEYING LOCKS.
 - CONTRACTOR TO FIELD VERIFY JAMB DEPTH OF NEW FRAMES IN EXISTING WALLS.
 - CHLORINE EXTERIOR DOORS SHALL HAVE HALF GLASS, LEVER HANDLE, ENTRY STYLE LOCK (KEY OUTSIDE, PANIC BAR INSIDE), DOOR CLOSER W/ HOLD OPEN ARM, KICK PLATE, NEOPRENE DOOR SWEEP W/ THRESHOLD, AND "CHLORINE" SIGN.
 - PIPE GALLERY DOORS AND ELECTRICAL DOORS SHALL HAVE 24" SQUARE LOUVER W/ INSECT SCREEN, LEVER HANDLE, ENTRY STYLE LOCK (KEY OUTSIDE, PANIC BAR INSIDE), DOOR CLOSER W/ HOLD OPEN ARM, KICK PLATE, NEOPRENE DOOR SWEEP W/ THRESHOLD, AND "DANGER-HIGH VOLTAGE SIGN".



REVISIONS

#	DATE	DESCRIPTION
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WELL NO. 1 DOOR AND WINDOW SCHEDULE

DALLAS COUNTY DWSRF 2022

DALLAS COUNTY WATER & SEWER AUTHORITY

DALLAS COUNTY

ALABAMA

THE KELLEY GROUP

A CIVIL ENGINEERING COMPANY

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SCALE: AS NOTED

DATE: 06/2026

SHEET NO.

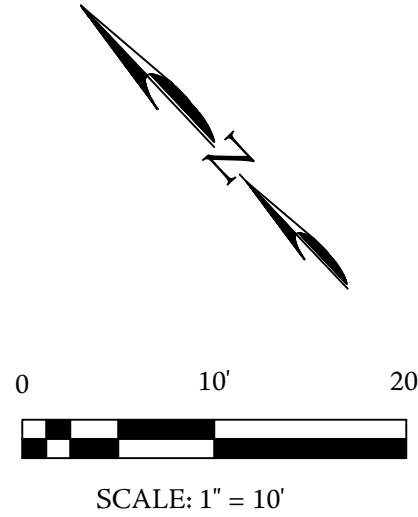
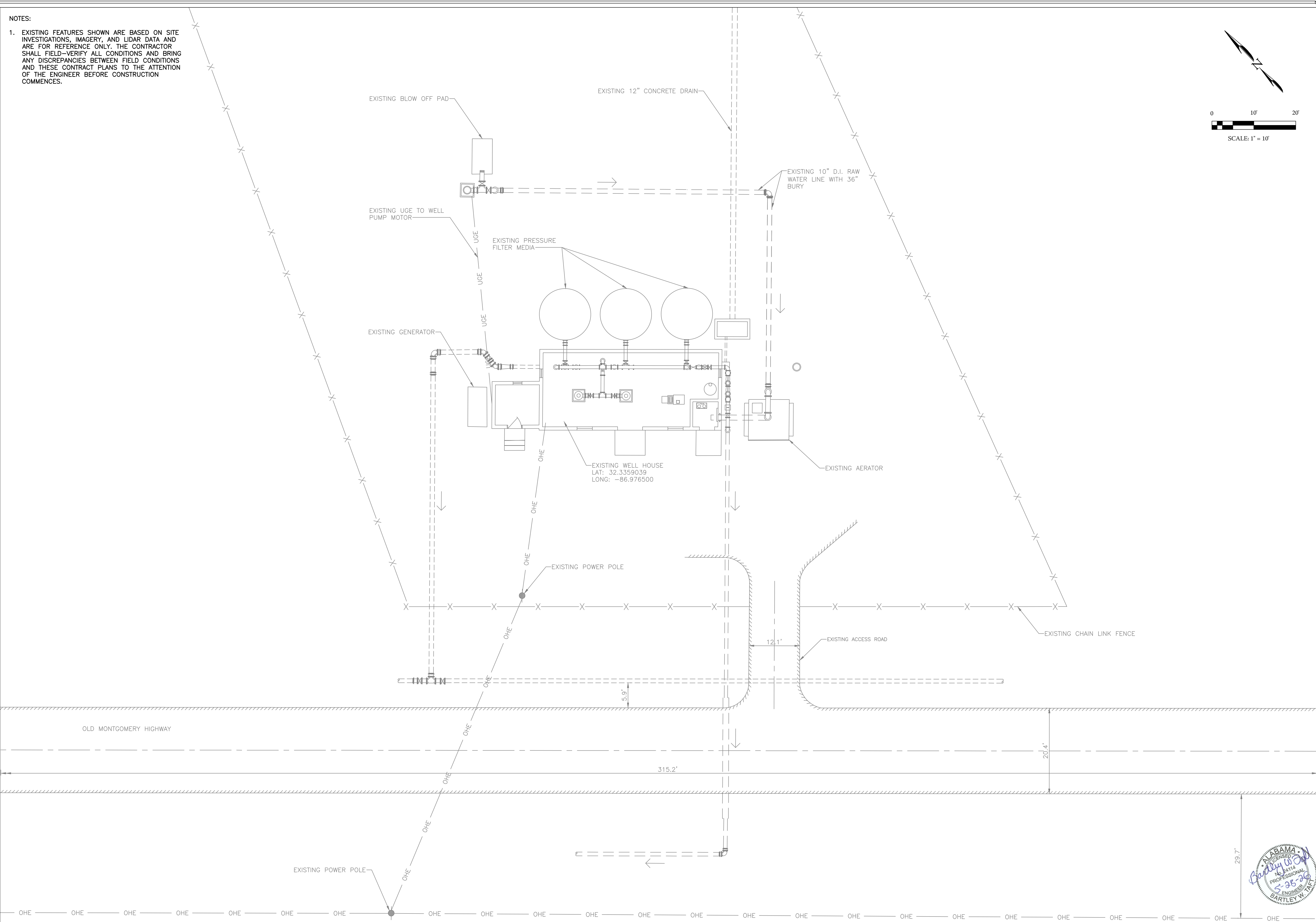
C-13

5/28/2026 8:15:50 AM

RA:20221220020 - DALLAS COUNTY DWSRF 202217.CAD(BASE PLAN)SU01 - WELL 3.DWG

NOTES:

1. EXISTING FEATURES SHOWN ARE BASED ON SITE INVESTIGATIONS, IMAGERY, AND LIDAR DATA AND ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL FIELD-VERIFY ALL CONDITIONS AND BRING ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE CONTRACT PLANS TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION COMMENCES.



REVISIONS	
DESCRIPTION	DATE
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OVERALL SITE PLAN WELL NO. 3

DALLAS COUNTY DWSRF 2022

DALLAS COUNTY WATER & SEWER AUTHORITY

DALLAS COUNTY

ALABAMA

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A CIVIL ENGINEERING COMPANY

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PROJECT NO: 22-0020

DRAWN BY: TCW

CHECKED BY: BWT

SCALE: AS NOTED

DATE: 06/2026

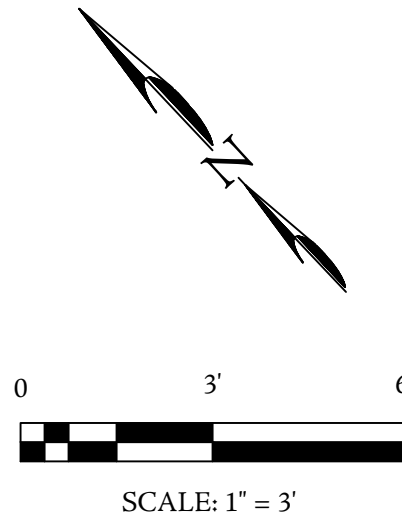
SHEET NO.

C-14

C-14

OVERALL SITE PLAN WELL NO. 3

Scale: 1" = 10'

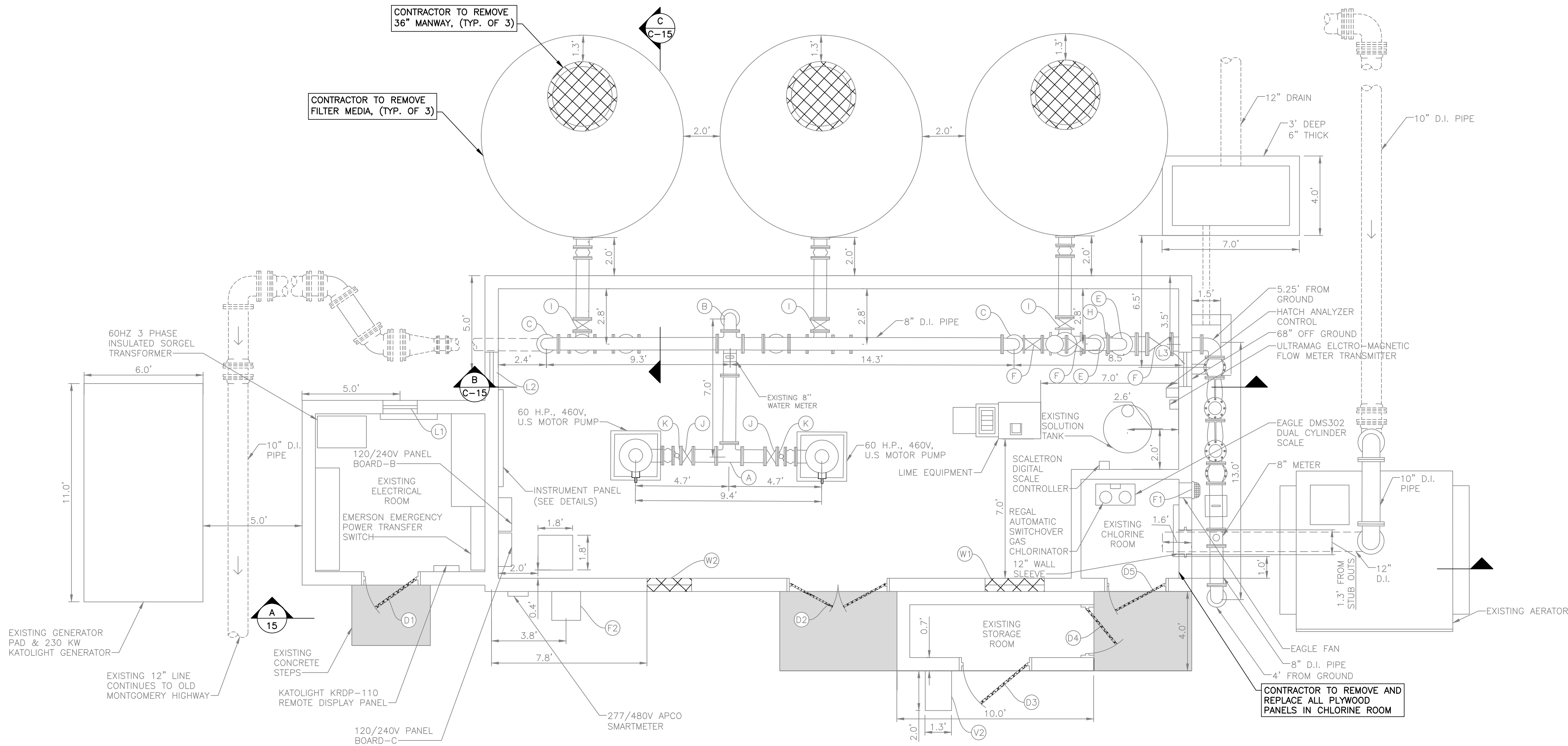


NOTES:

1. SEE DOOR AND WINDOW SCHEDULE ON SHT. C-20 FOR ALL DOOR, WINDOW, LOUVER, VENT AND FAN DIMENSIONS.

NOTE:

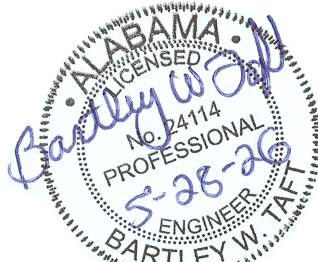
EXISTING FEATURES SHOWN ARE BASED ON SITE INVESTIGATIONS, IMAGERY, AND LIDAR DATA AND ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL FIELD-VERIFY ALL CONDITIONS AND BRING ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE CONTRACT PLANS TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION COMMENCES.



PLAN VIEW

SCALE 1" = 3'

FITTING SCHEDULE	
(A)	8" TEE
(B)	8" 90° BEND
(C)	8"x6" 90° BEND
(D)	8"x6" TEE
(E)	6" 90° BEND
(F)	6" GATE VALVE WITH ACTUATOR
(G)	6" GATE VALVE WITH HAND WHEEL
(H)	6" TEE
(I)	8" GATE VALVE
(J)	8" FLG'D GATE VALVE
(K)	8" FLG'D CHECK VALVE



REVISIONS	
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WELL NO. 3 DEMOLITION PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
301 N. Dickson St.
Tusculum, AL 35674
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

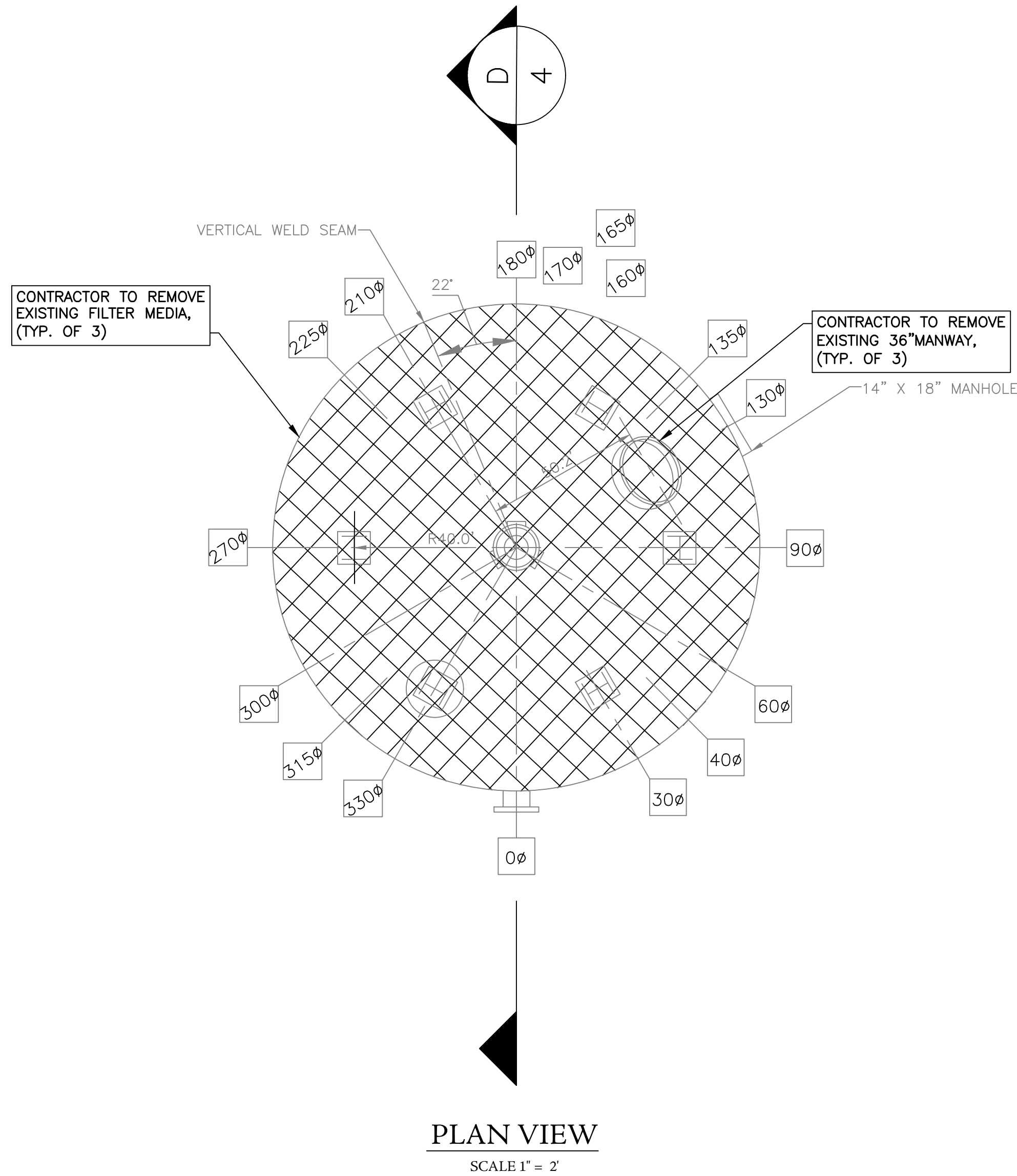
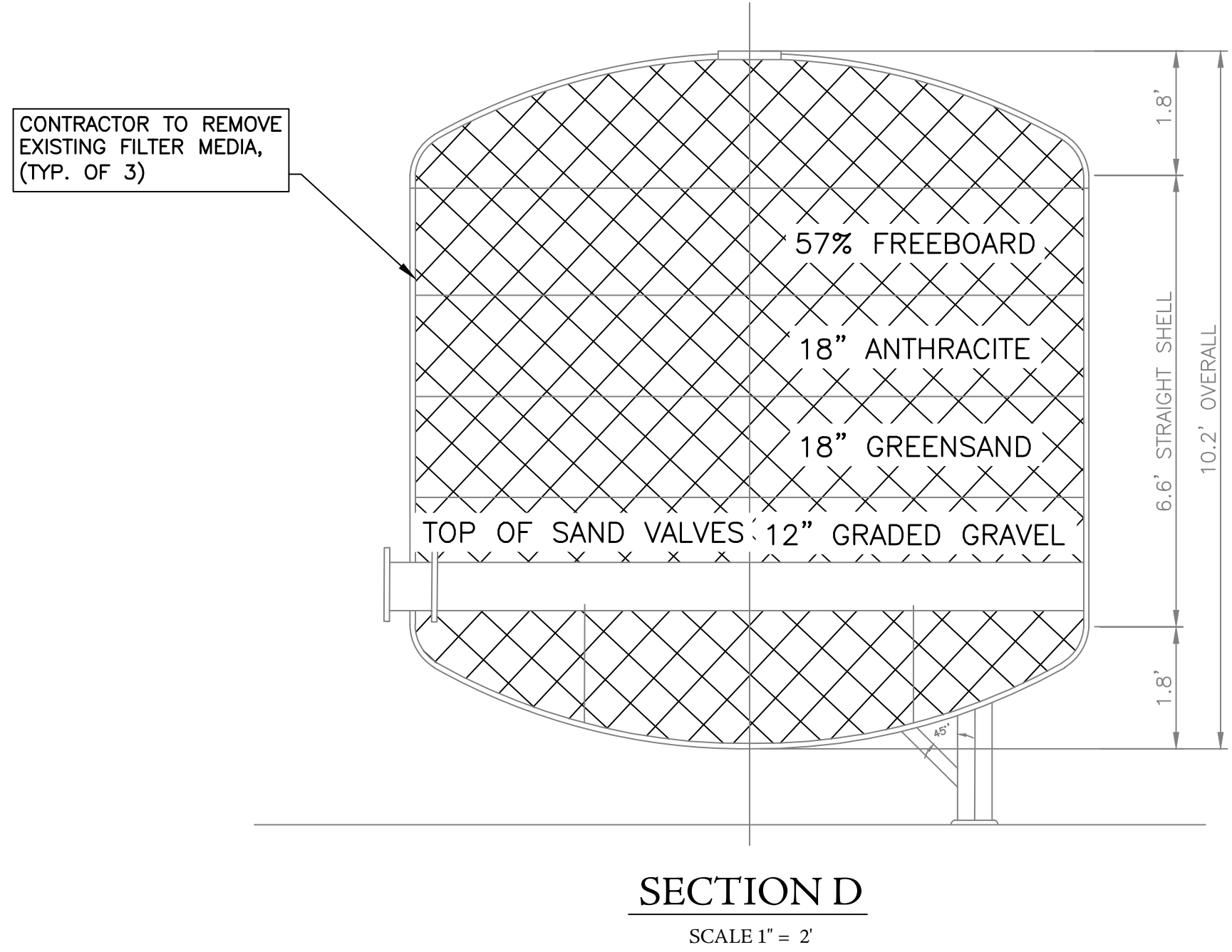
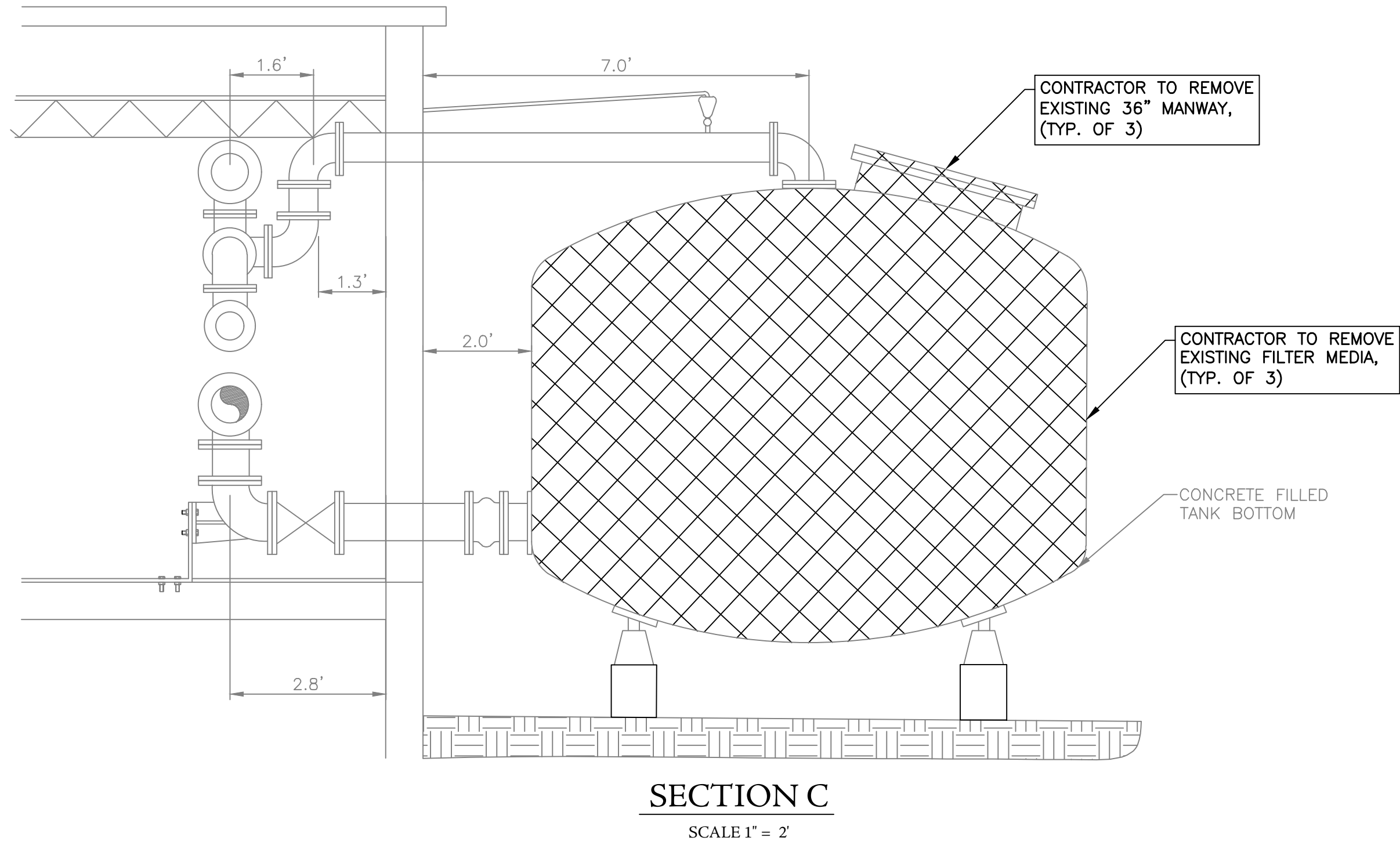
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DATE: 06/2026

SHEET NO.
C-15

5/28/2026 8:16:09 AM

RA:2022/12/20/20 - DALLAS COUNTY DWSRF 2022/7/CAD/PRODUCTION PLAN/D02 - WELL 3.DWG



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REVISIONS		DATE	BY
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WELL NO. 3 DEMOLITION PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

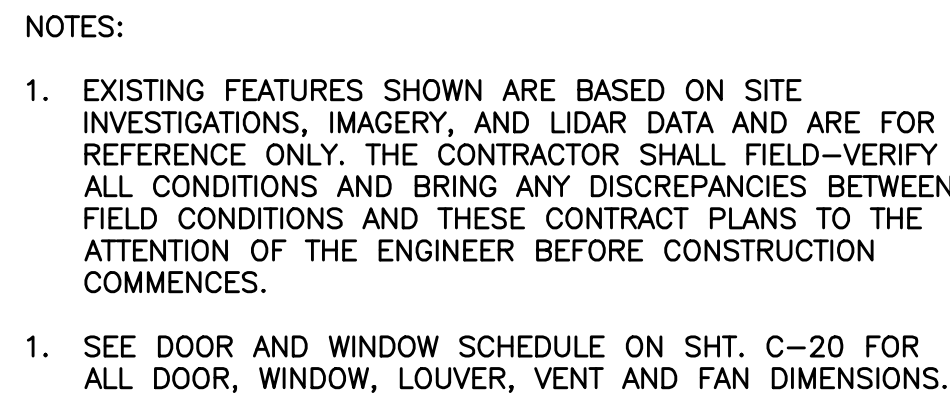
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A CIVIL ENGINEERING COMPANY
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Tusculum, AL 35674

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SCALE: AS NOTED
DATE: 06/2026

SHEET NO.
C-16





REVISIONS			
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WELL NO. 3 IMPROVEMENTS PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
♦
• A CIVIL ENGINEERING COMPANY •
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242
301 N Dickson St.
Tusculum, AL 35674

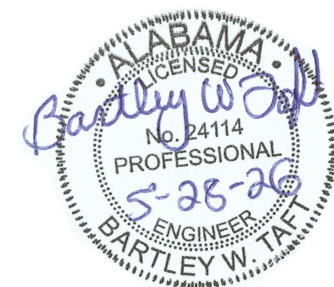
ATTENTION:
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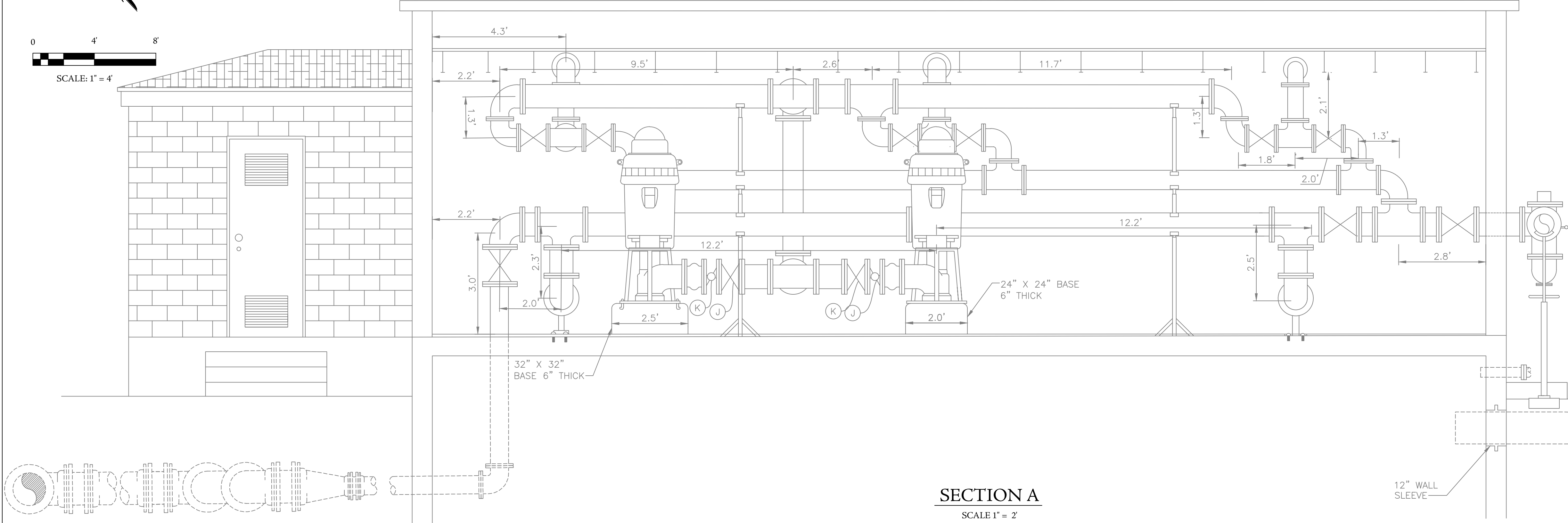
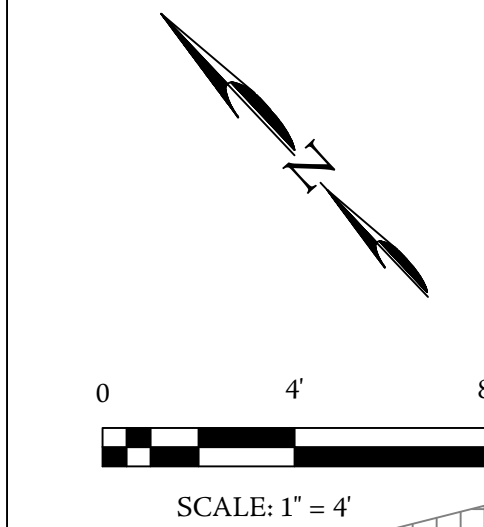
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 CHECKED BY: BWT
 SCALE: AS NOTED
 DATE: 06/2026

SHEET NO.
C-17



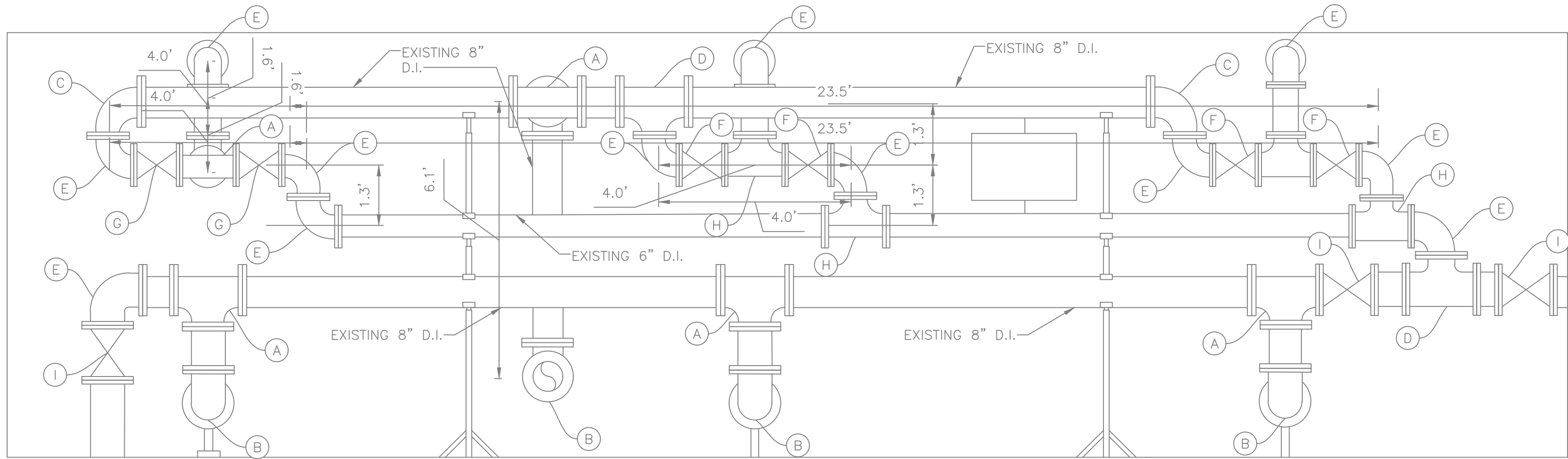
FITTING SCHEDULE	
(A)	8" TEE
(B)	8" 90° BEND
(C)	8"x6" 90° BEND
(D)	8"x6" TEE
(E)	6" 90° BEND
(F)	6" GATE VALVE WITH ACTUATOR
(G)	6" GATE VALVE WITH HAND WHEEL
(H)	6" TEE
(I)	8" GATE VALVE
(J)	8" FLG'D GATE VALVE
(K)	8" FLG'D CHECK VALVE





SECTION A
SCALE 1" = 2'

FITTING SCHEDULE	
(A)	8" TEE
(B)	8" 90° BEND
(C)	8"X6" 90° BEND
(D)	8"X6" TEE
(E)	6" 90° BEND
(F)	6" GATE VALVE WITH ACTUATOR
(G)	6" GATE VALVE WITH HAND WHEEL
(H)	6" TEE
(I)	8" GATE VALVE
(J)	8" FLG'D GATE VALVE
(K)	8" FLG'D CHECK VALVE



SECTION B
SCALE 1" = 2'

NOTE:
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WELL NO. 3 IMPROVEMENTS PLAN

DALLAS COUNTY DWSRF 2022

DALLAS COUNTY WATER & SEWER AUTHORITY

DALLAS COUNTY

ALABAMA

THE KELLEY GROUP

A CIVIL ENGINEERING COMPANY

800 Corporate Pkwy, Suite 100
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SCALE: AS NOTED

DATE: 06/2026

SHEET NO.

C-18

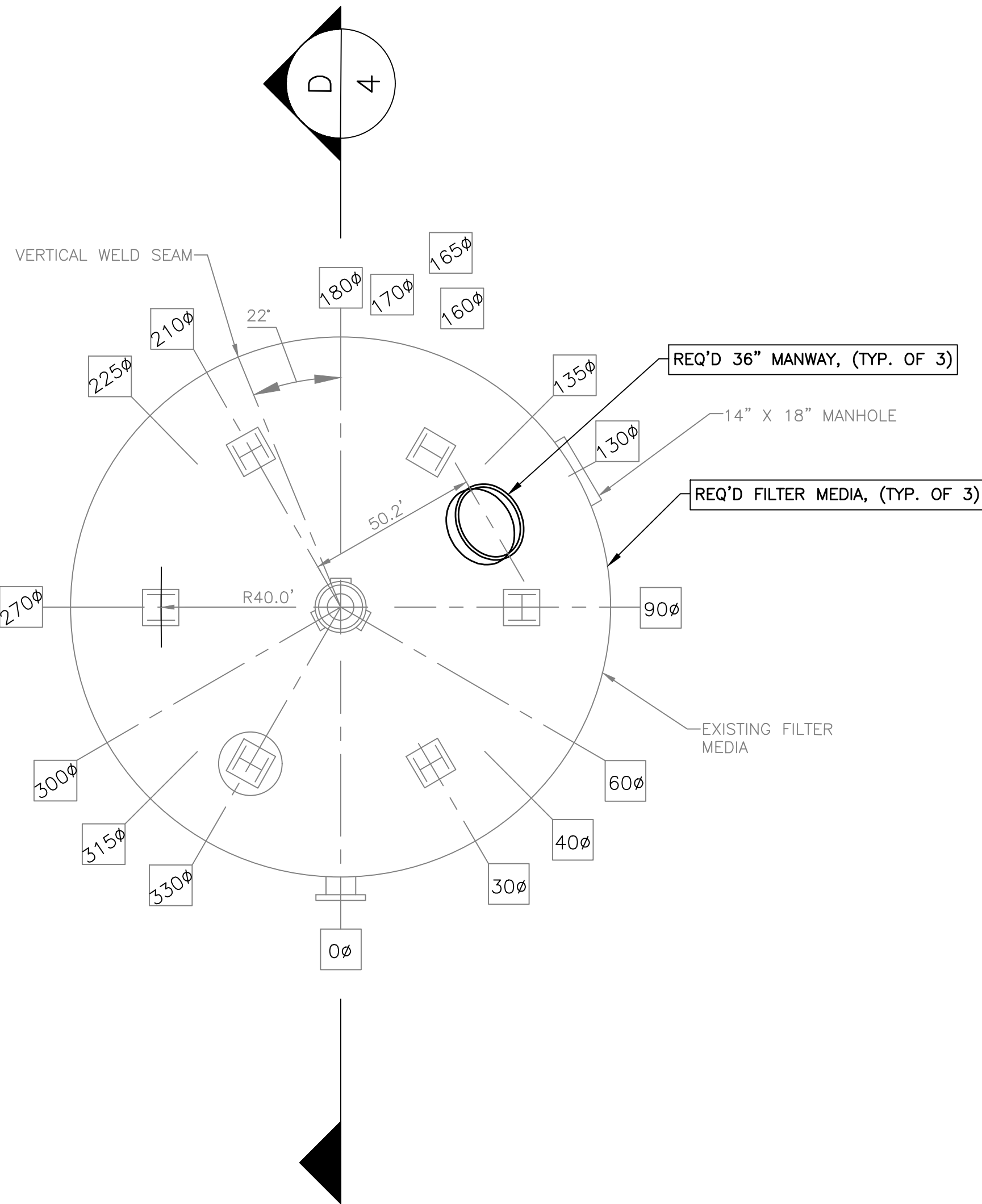
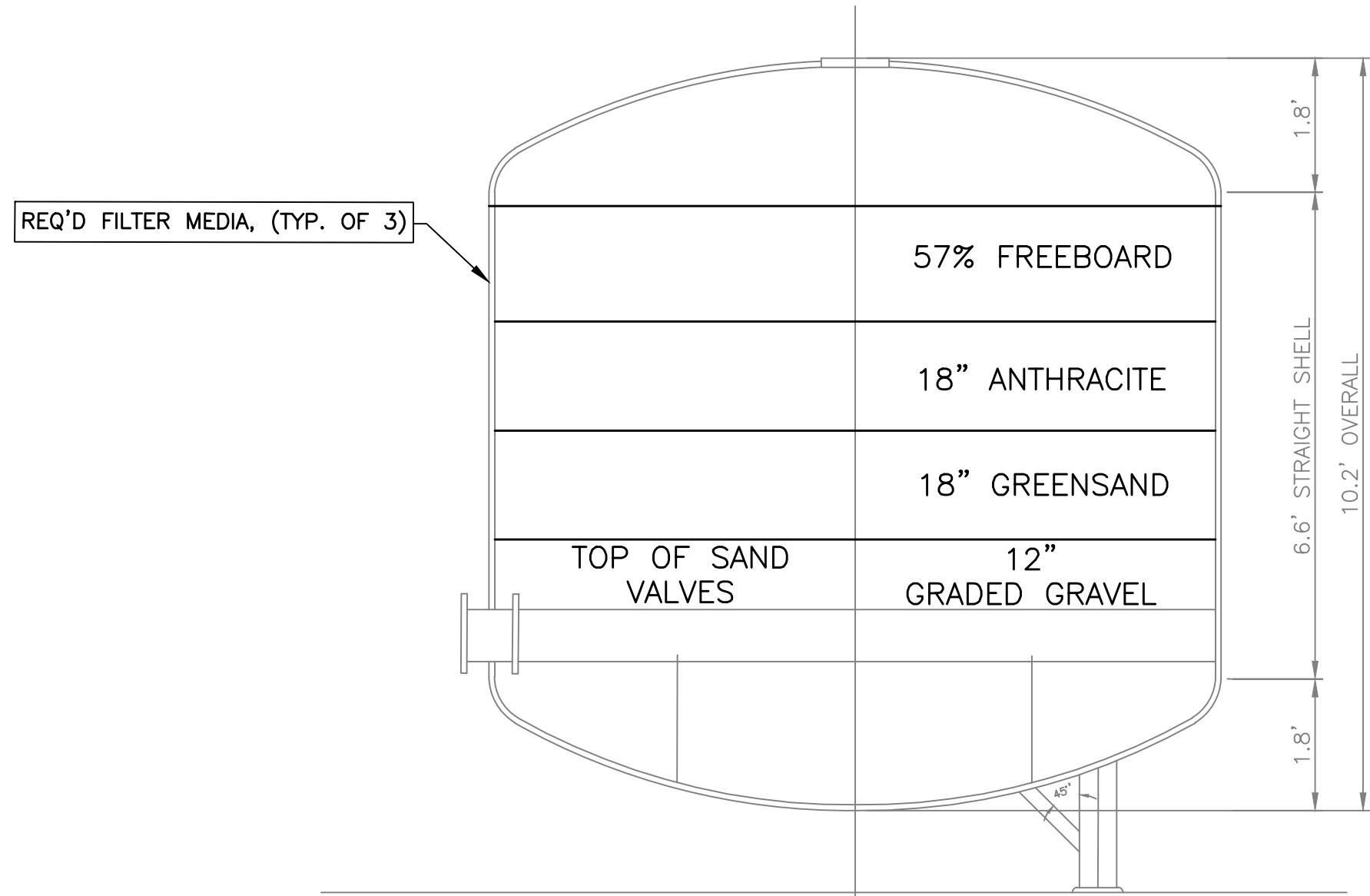
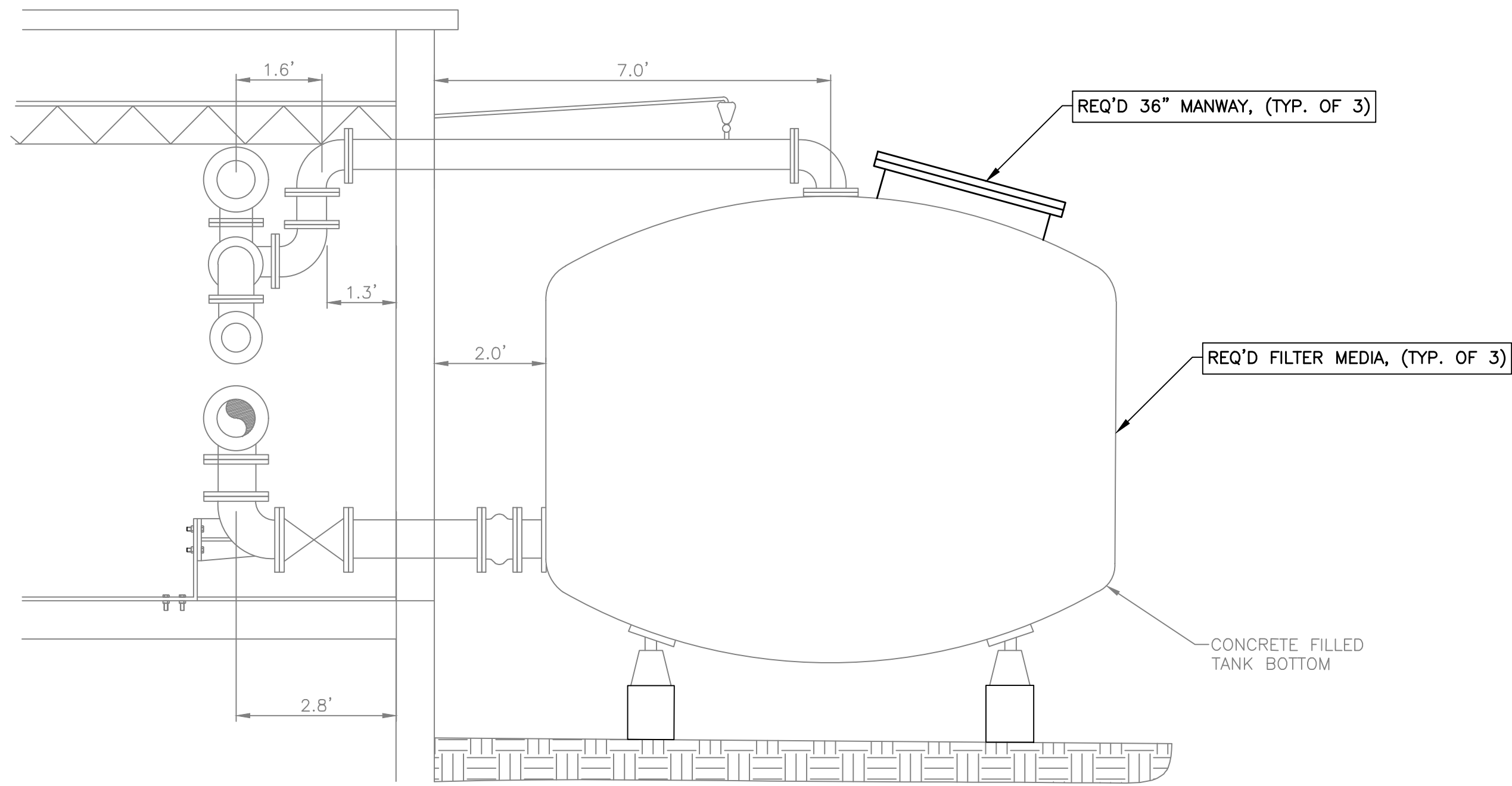


5/28/2026 8:16:41 AM

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C-19 WELL NO. 3 IMPROVEMENTS PLAN

Scale: 1" = 2'



NOTE:

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REVISIONS		DESCRIPTION	DATE	BY
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WELL NO. 3 IMPROVEMENTS PLAN

DALLAS COUNTY DWSRF 2022

DALLAS COUNTY WATER & SEWER AUTHORITY

DALLAS COUNTY

ALABAMA

THE KELLEY GROUP

A CIVIL ENGINEERING COMPANY

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Birmingham, Alabama 35242

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1"

PROJECT NO: 22-0020

DRAWN BY: TCW

CHECKED BY: BWT

SCALE: AS NOTED

DATE: 06/2026

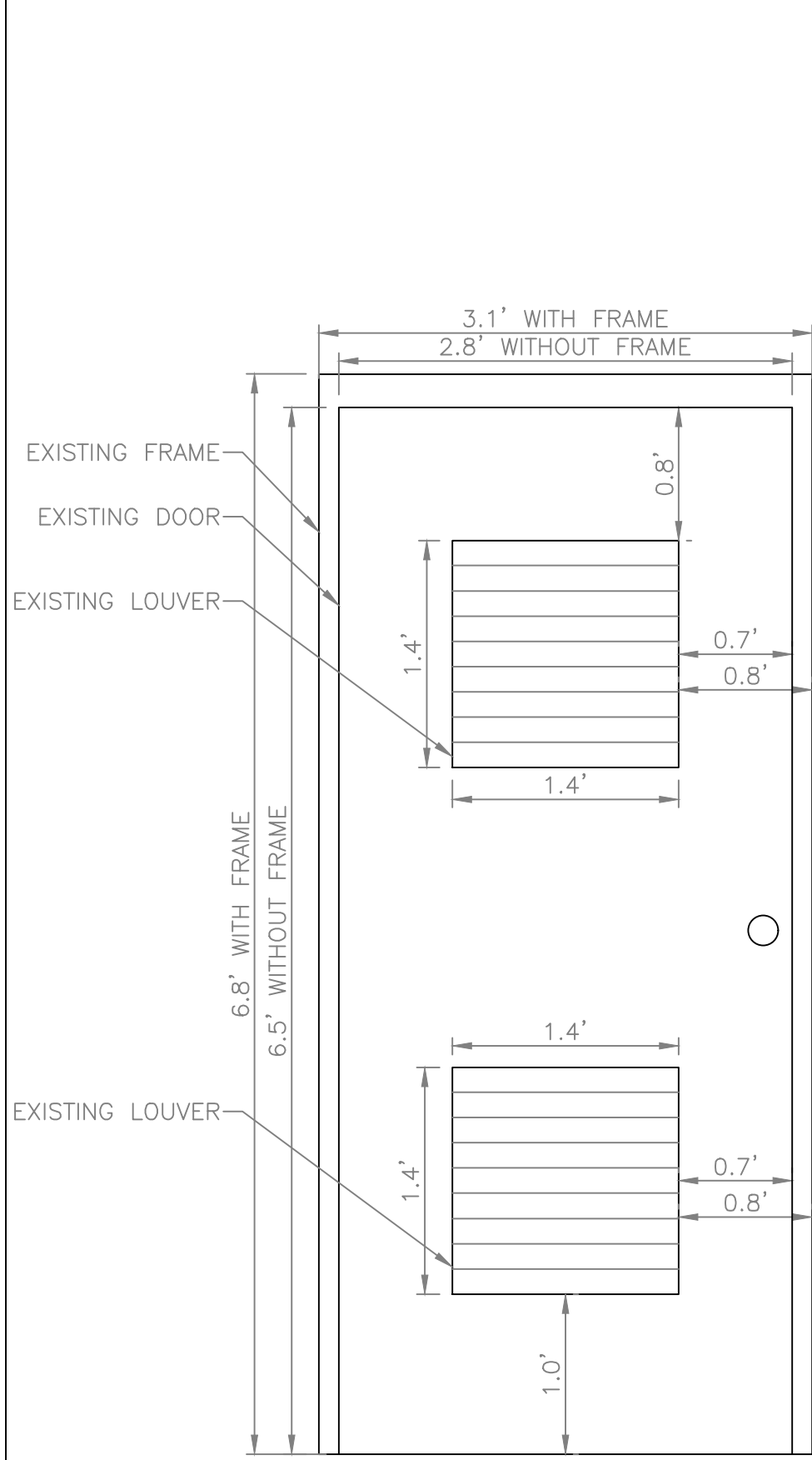
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C-19



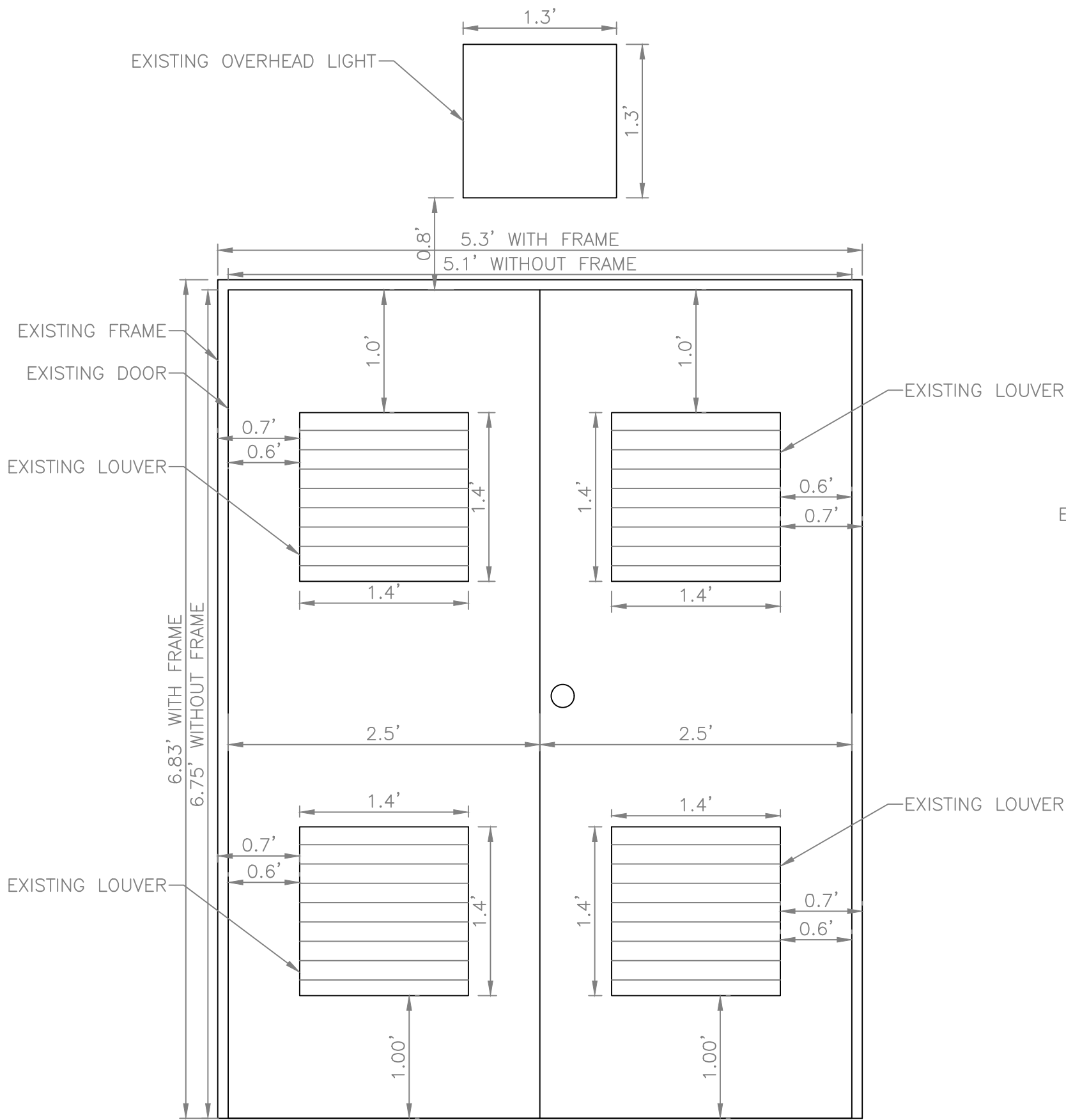
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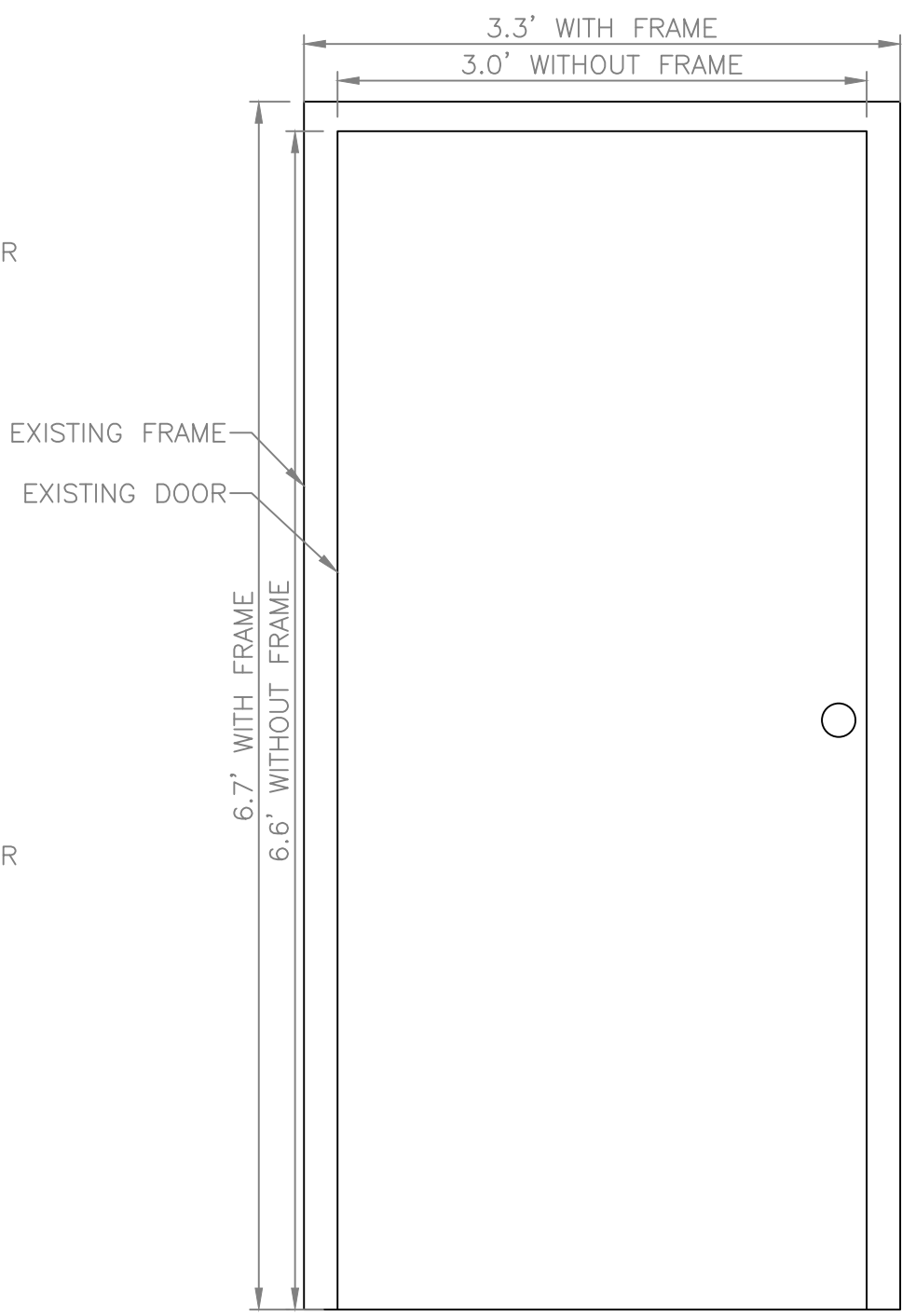
D1 - ELECTRICAL DOOR

SCALE 1" = 1'



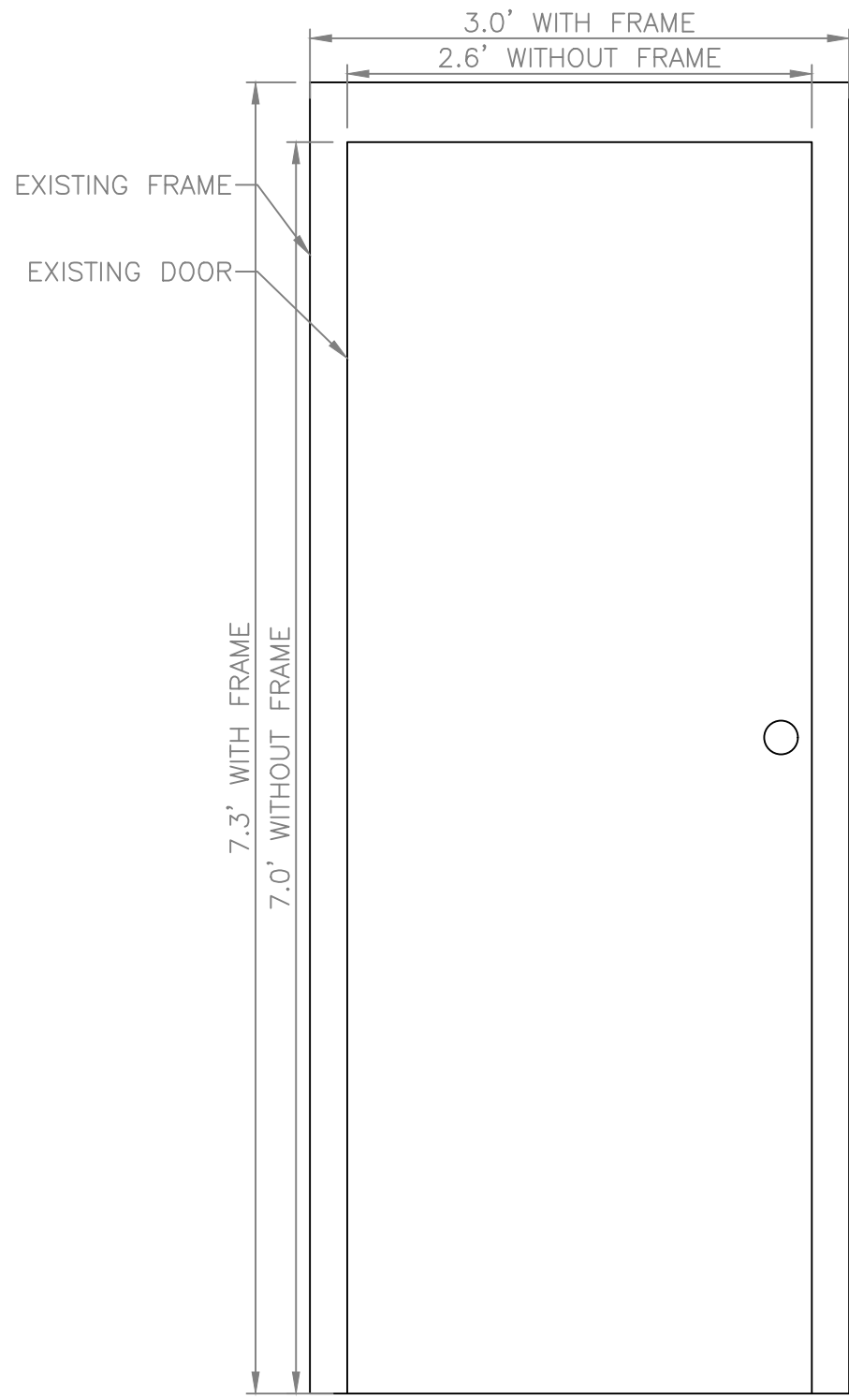
D2 - PIPE GALLERY DOOR

SCALE 1" = 1'



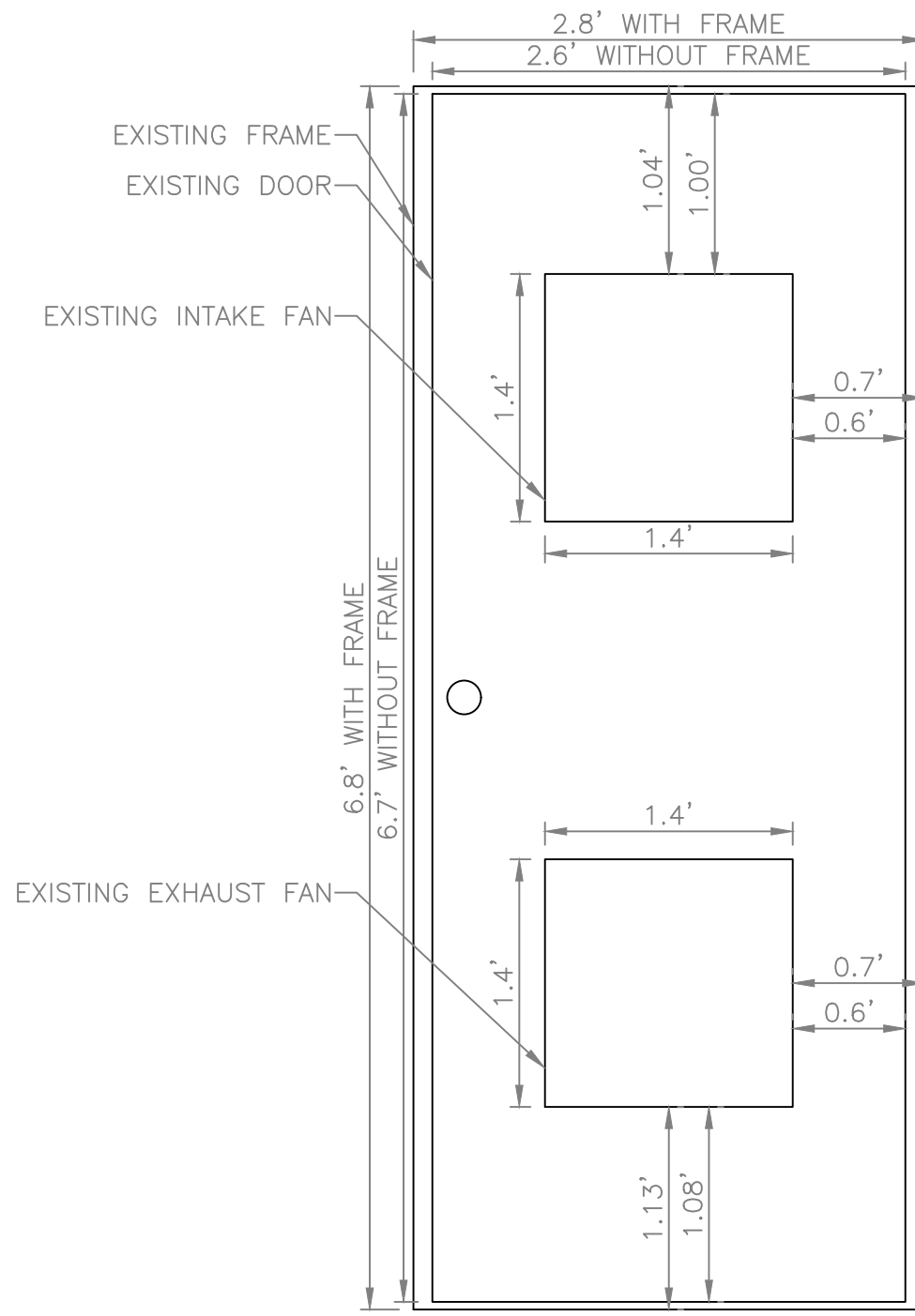
D3 - FRONT STORAGE DOOR

SCALE 1" = 1'



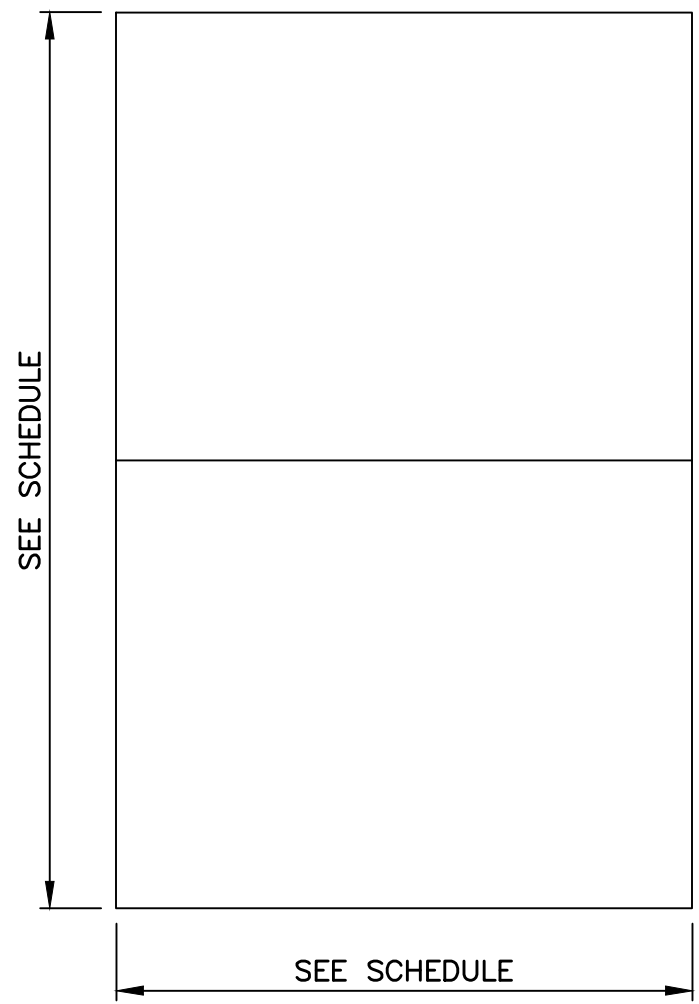
D4 - SIDE STORAGE DOOR

SCALE 1" = 1'



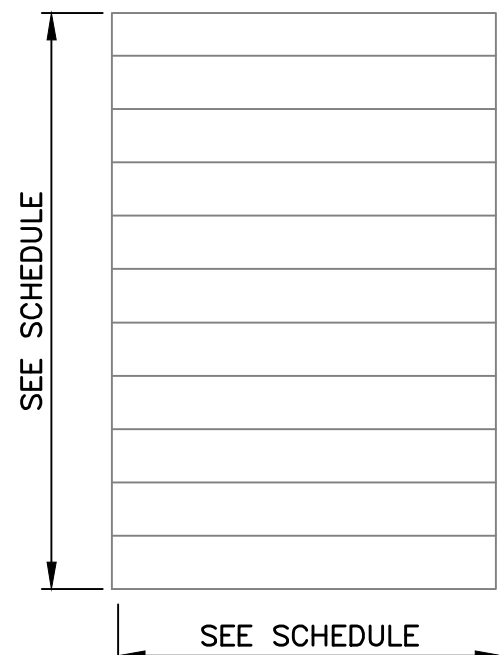
D5 - CHLORINE DOOR

SCALE 1" = 1'



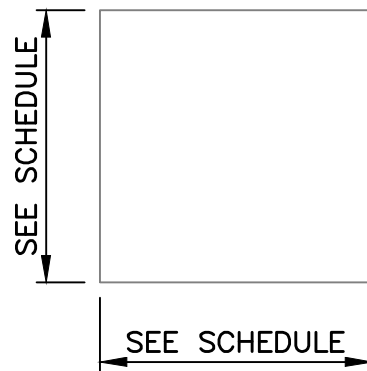
WINDOW

SCALE 1" = 1'



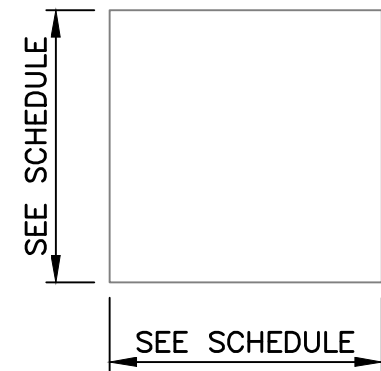
LOUVER

SCALE: 1" = 1'



VENT

SCALE: N.T.S.



FAN

SCALE: N.T.S.

VENT SCHEDULE				
SYMBOL	LOCATION	WIDTH	HEIGHT	REMARKS
V1	PIPE GALLERY	11.5"	11.5"	
V2	STORAGE ROOM	24"	18"	1.3' X 2' X 1.5' HOOD VENT

LOUVER SCHEDULE				
SYMBOL	LOCATION	WIDTH	HEIGHT	REMARKS
L1	ELECTRICAL ROOM	2'	2'	45" ABOVE GROUND
L2	PIPE GALLERY	2'	3'	88" ABOVE GROUND
L3	PIPE GALLERY	3'	2'	68" ABOVE GROUND

FAN SCHEDULE				
SYMBOL	LOCATION	WIDTH	HEIGHT	REMARKS
F1	CHLORINE ROOM	16.5"	18"	
F2	PIPE GALLERY	17.5"	17.5"	16" OUT OF WALL & 26" ABOVE GROUND

DOOR HARDWARE SCHEDULE		
DOOR SYMBOL	LOCATION	REMARKS
D1	ELECTRICAL ROOM	REMOVE AND REPLACE DOOR AND HARDWARE
D2	PIPE GALLERY	REMOVE AND REPLACE DOOR AND HARDWARE
D3	FRONT STORAGE	REMOVE AND REPLACE DOOR AND HARDWARE
D4	SIDE STORAGE	REMOVE AND REPLACE DOOR AND HARDWARE
D5	CHLORINE ROOM	REMOVE AND REPLACE DOOR AND HARDWARE

WINDOW SCHEDULE				
SYMBOL	LOCATION	WIDTH	HEIGHT	REMARKS
W1	PIPE GALLERY	36"	51"	REMOVE AND REPLACE WINDOW
W2	PIPE GALLERY	36"	56"	REMOVE AND REPLACE WINDOW, RECESSED 2" & 39" ABOVE GROUND

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WELL NO. 3 DOOR AND WINDOW SCHEDULE

DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
301 N. Dickson St.
Tusculum, Alabama 35242

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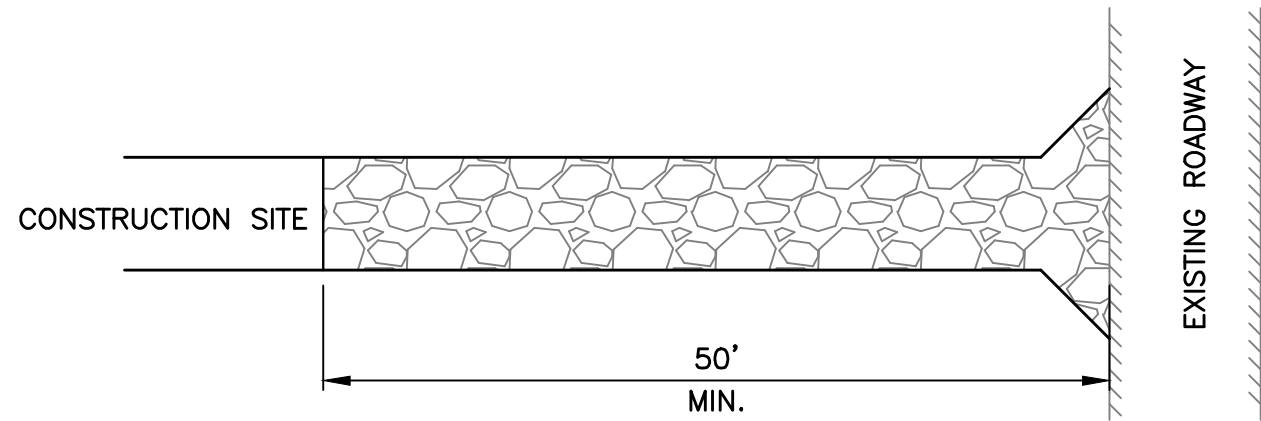
PROJECT NO: 22-0020
DRAWN BY: TCW
CHECKED BY: BWT
SCALE: AS NOTED
DATE: 06/2026

SHEET NO.
C-20

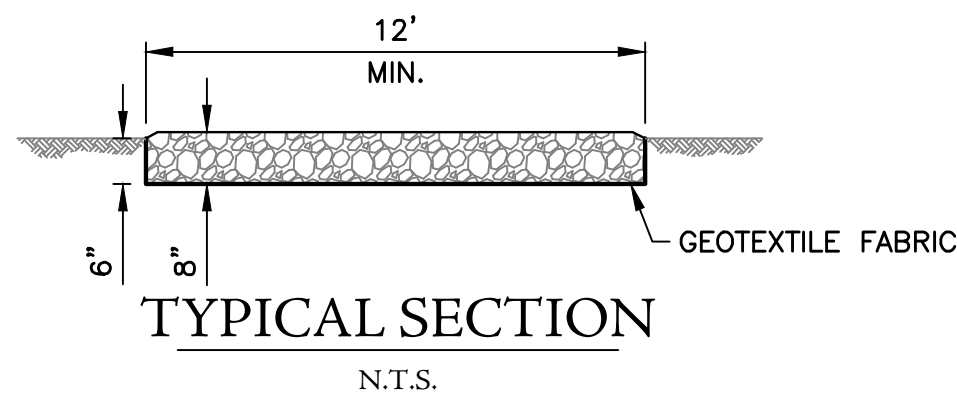


5/28/2026 8:16:54 AM

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PLAN VIEW
N.T.S.

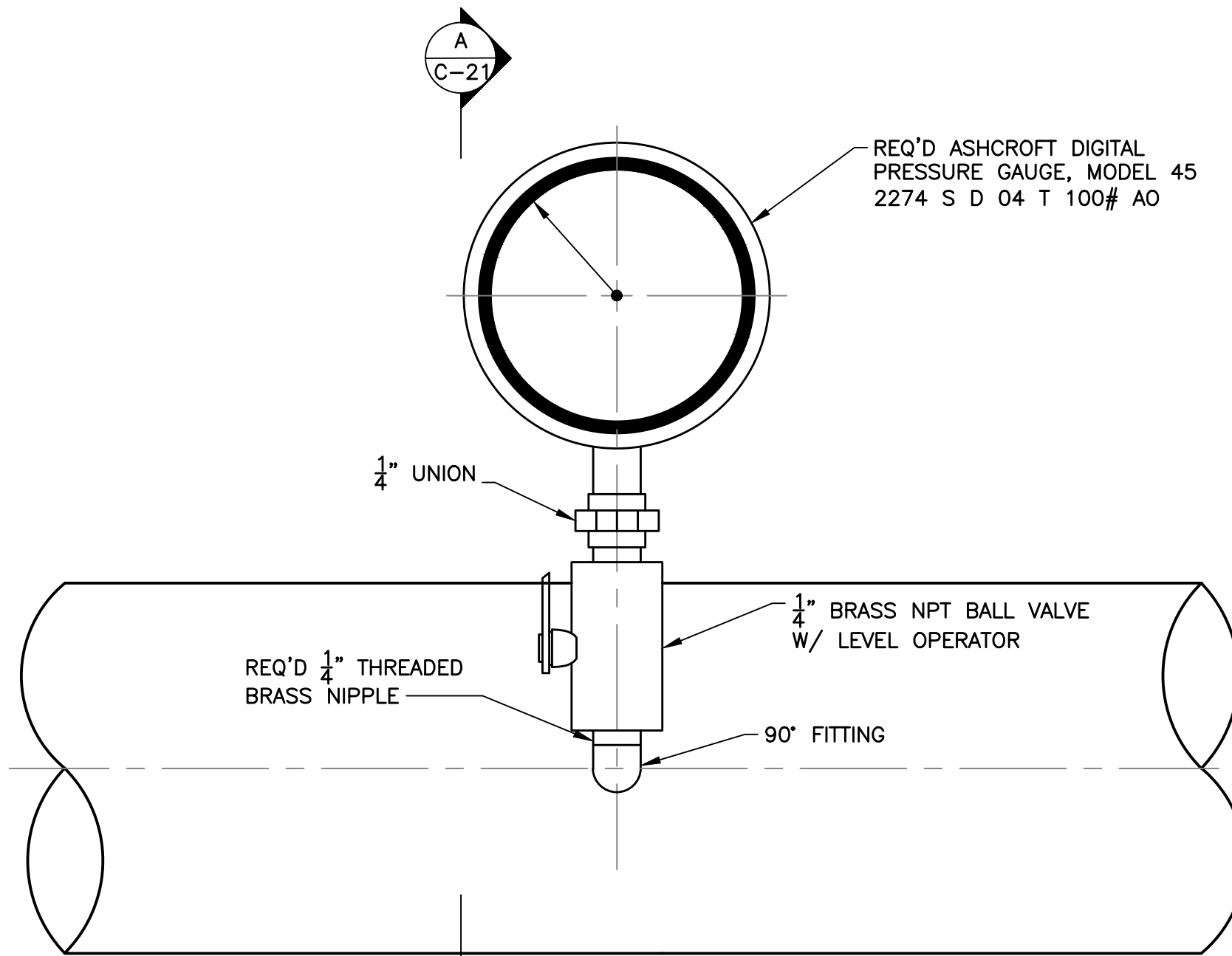


TYPICAL SECTION
N.T.S.

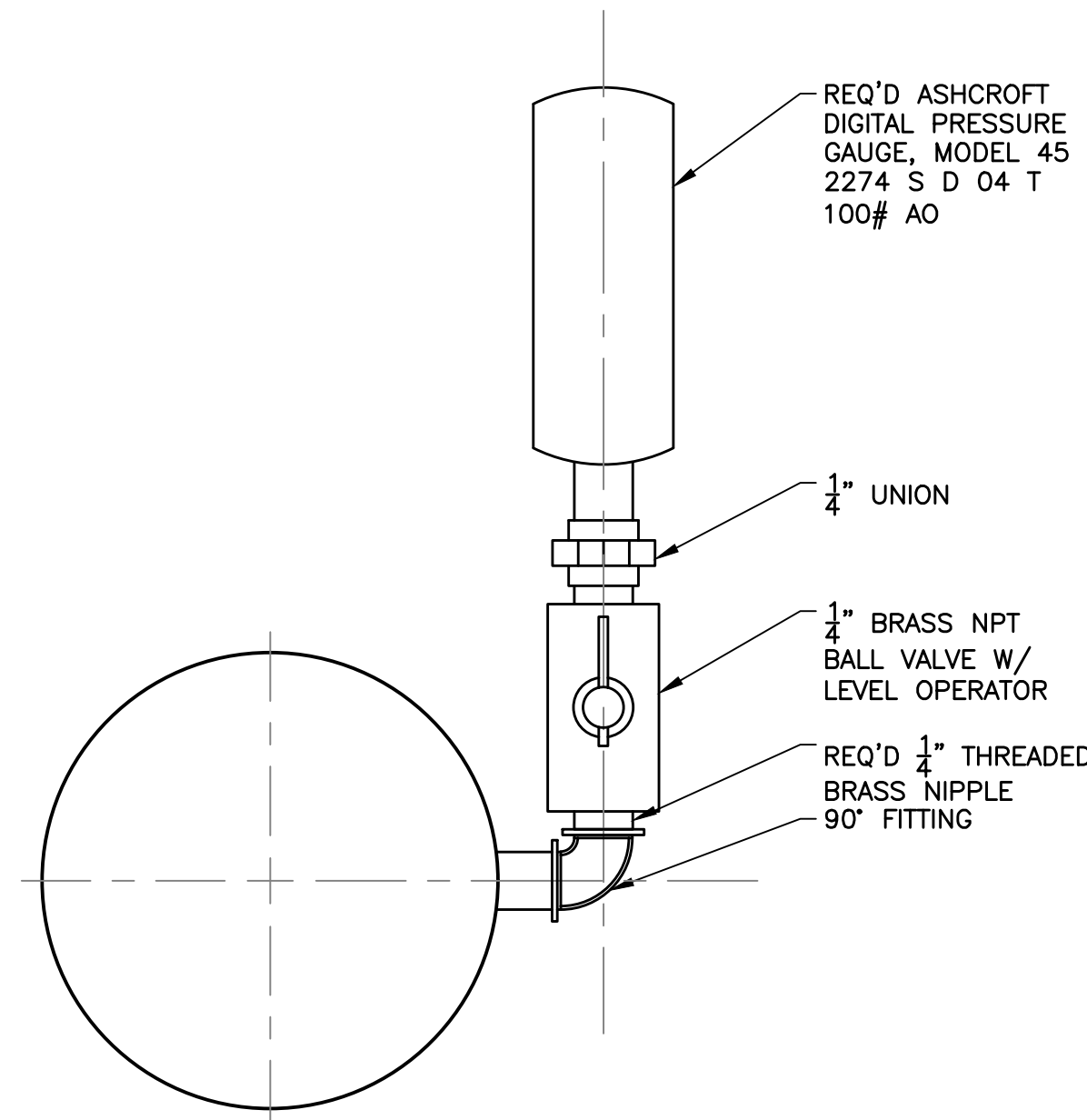
NOTES:

1. A STONE STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED.
2. ALDOT #2 STONE TO BE USED FOR CONSTRUCTION ENTRANCE/EXIT.
3. A GEOTEXTILE FABRIC UNDERLINE SHALL BE INSTALLED.
4. CONTRACTOR TO VERIFY WITH PERMITTING AUTHORITY ANY PROJECT-SPECIFIC ENTRANCE SPECIFICATIONS.
5. PROVIDE TEMPORARY DRAINAGE AS REQUIRED.
6. THE COST OF THE STONE CONSTRUCTION ENTRANCE/EXIT SHALL BE A SUBSIDIARY OBLIGATION OF OTHER ITEMS OF WORK.

01 | TEMPORARY CONSTRUCTION ENTRANCE/EXIT
SCALE: N.T.S.

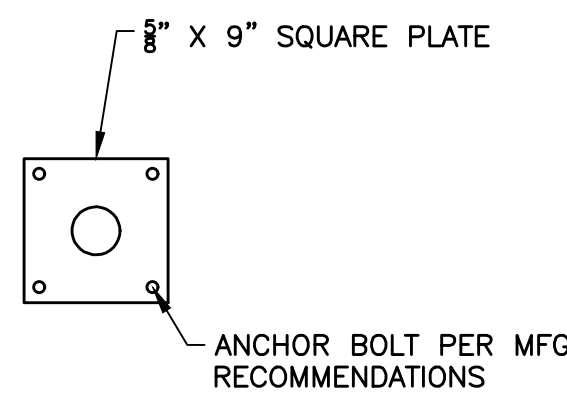


PLAN VIEW

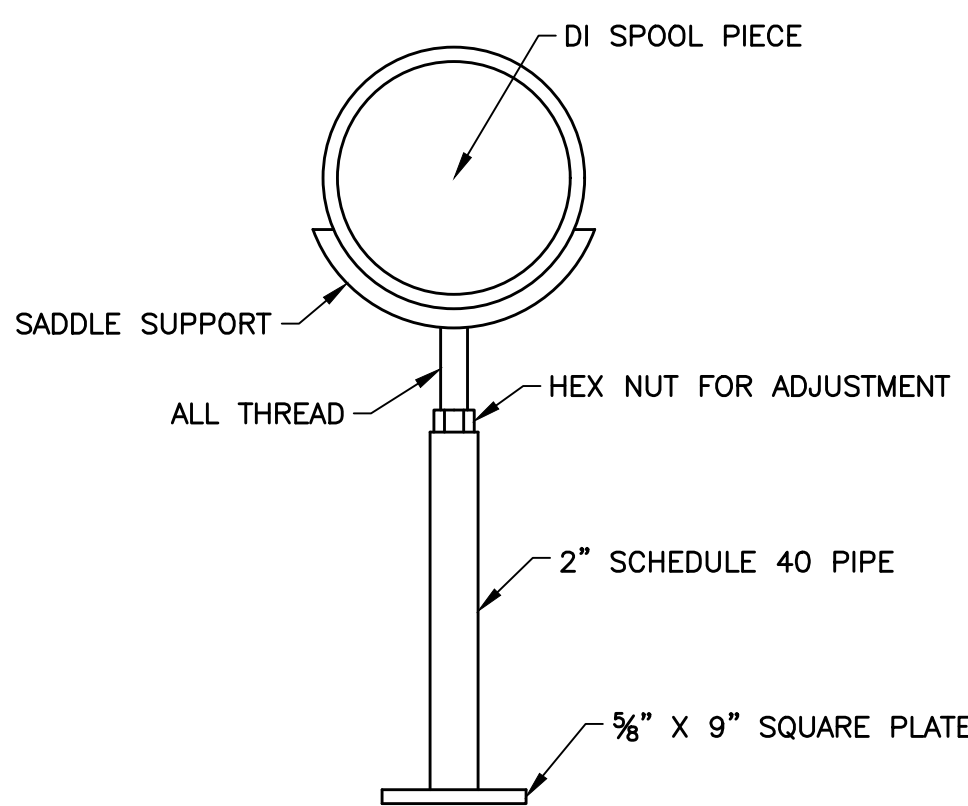


SECTION A

02 | PRESSURE GAUGE DETAILS
SCALE: N.T.S.

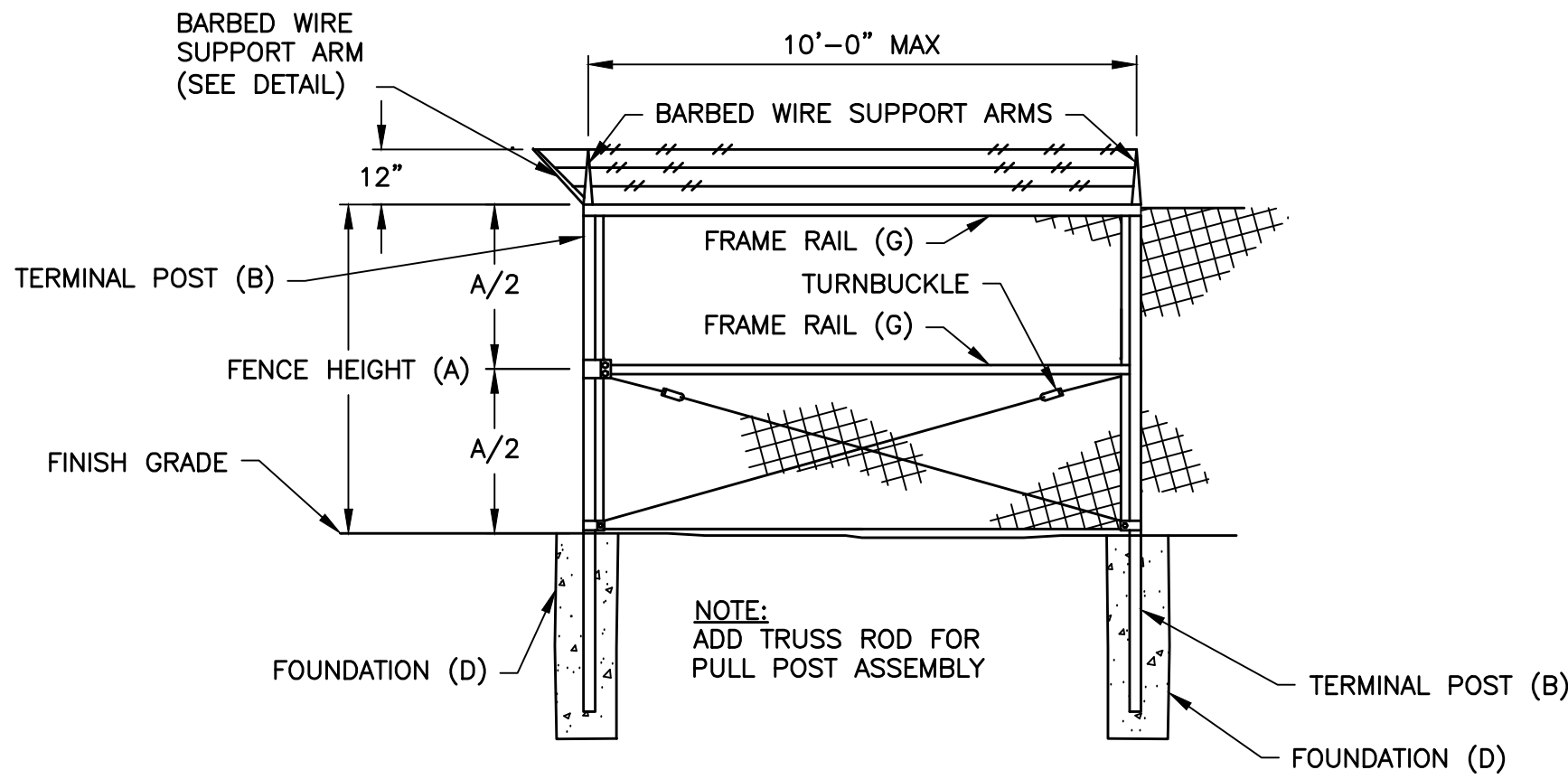


PLAN

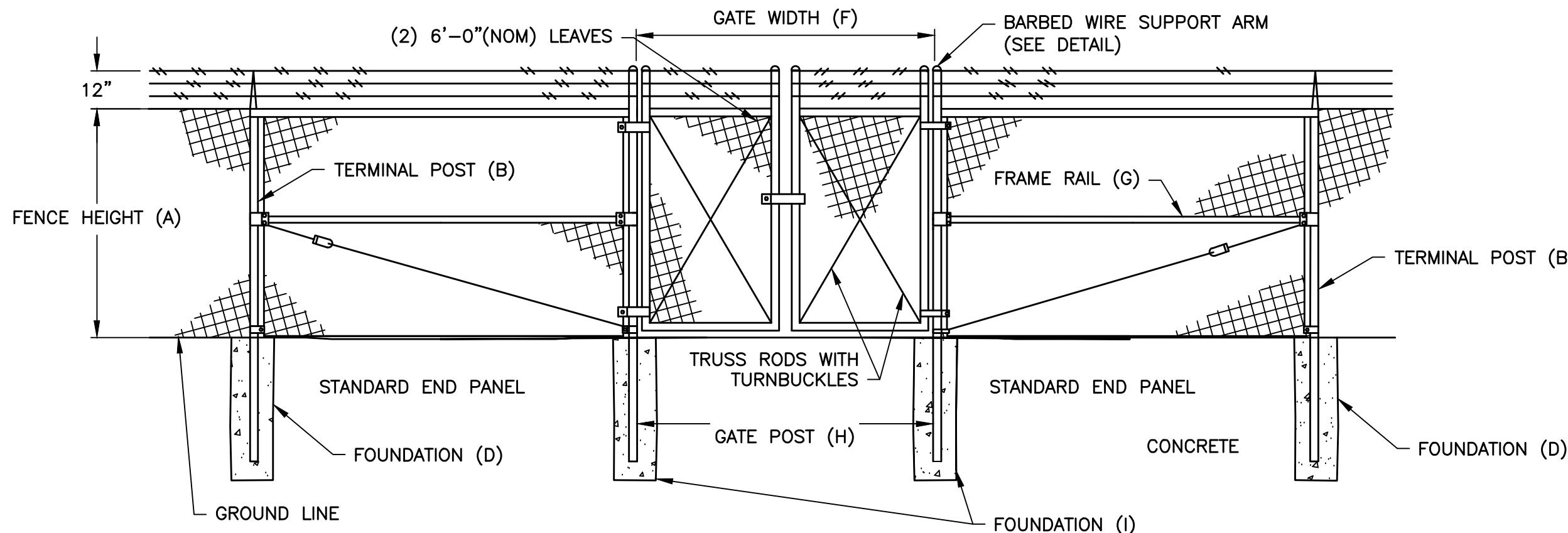


ELEVATION

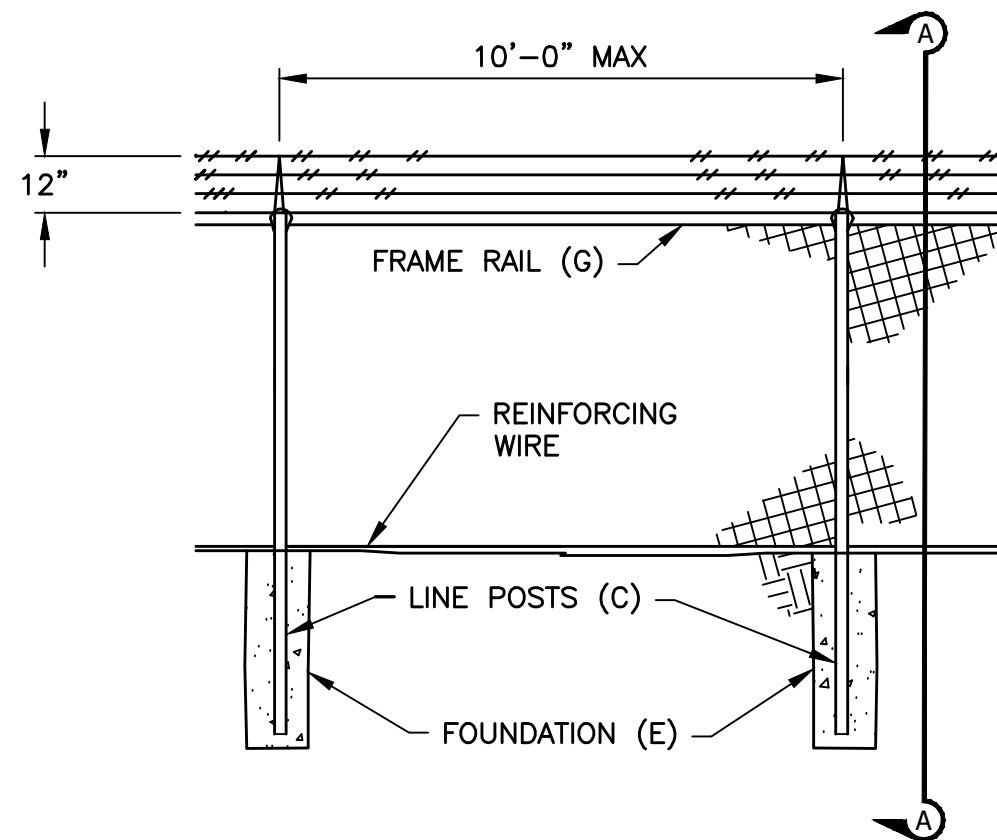
03 | PIPE STAND DETAIL
SCALE: N.T.S.



CORNER/END PANEL ASSEMBLY



DOUBLE PANEL GATE DETAIL



TYPICAL LINE FENCE DETAIL

GATE POST REQUIRED			
F	G	H	I
GATE WIDTH (FEET)	FRAME DIAM. (INCH)	GATE POST DIAM. (INCH)	GATE POST FOUNDATION DIMENSIONS (DIAM. x DEPTH)
20	1.90	4.000	12" x 36"

TERMINAL AND LINE POST REQUIRED				
A	B	C	D	E
FENCE HEIGHT (FEET)	TERMINAL POST DIAM. x THICKNESS (INCH)	LINE POST DIAM. x THICKNESS (INCH)	TERMINAL POST FOUNDATION DIMENSIONS (DIAM. x DEPTH)	LINE POST FOUNDATION DIMENSIONS (DIAM. x DEPTH)
6-8	3.000 x 0.110	2.375 x 0.095	10" x 36"	10" x 36"

NOTES:

1. ALL FENCING AND GATES TO BE BLACK PVC COATED.
2. ALL FENCING AND GATES TO HAVE BLACK PRIVACY SLATS.
3. ALL FENCING AND GATES TO HAVE 3 STRAND BARBED WIRE.
4. WHEN GATES ARE INSTALLED ADJACENT TO CORNER OR END PANES, INSTALL TRUSS RODS AS IN PULL POST ASSEMBLIES.
5. ALL POSTS ARE SET IN CONCRETE 6" FROM TOTAL DEPTH.
6. CONTRACTOR TO PROVIDE FENCE SUBMITTAL TO ENGINEER FOR APPROVAL.
7. ALL FENCE AND GATE DIMENSIONS SHALL MATCH EXISTING SITE FENCING.



C-21

MISCELLANEOUS DETAILS
Scale: VARIES

4 | CHAIN LINK FENCE DETAILS
SCALE: N.T.S.

REVISIONS		DATE	BY
DESCRIPTION			
#	1	2	3
4	5	6	

MISCELLANEOUS DETAILS
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
301 N. Dickson St.
Tusculum, Alabama 35674
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

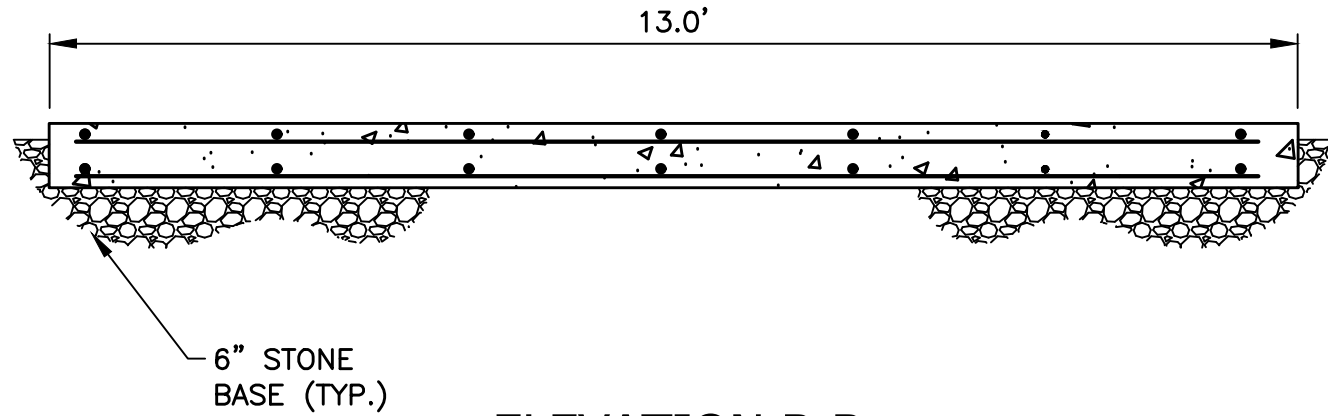
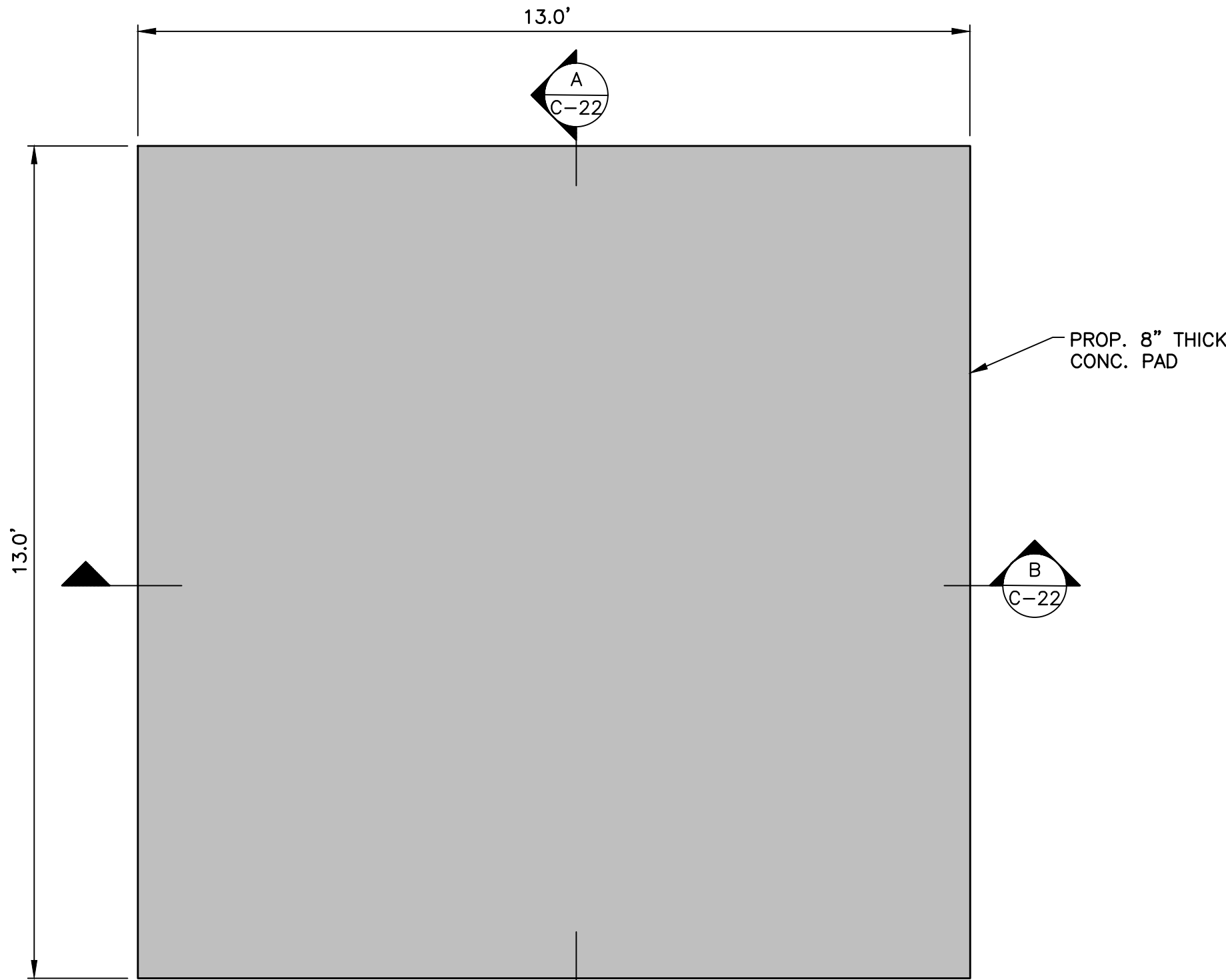
ATTENTION:
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ORIGINAL DRAWING.
ADJUST SCALE IF THIS
BAR ≠ 1 INCH.

PROJECT NO: 22-0020
DRAWN BY: TCW
CHECKED BY: BWT
SCALE: AS NOTED
DATE: 06/2026

SHEET NO.
C-21

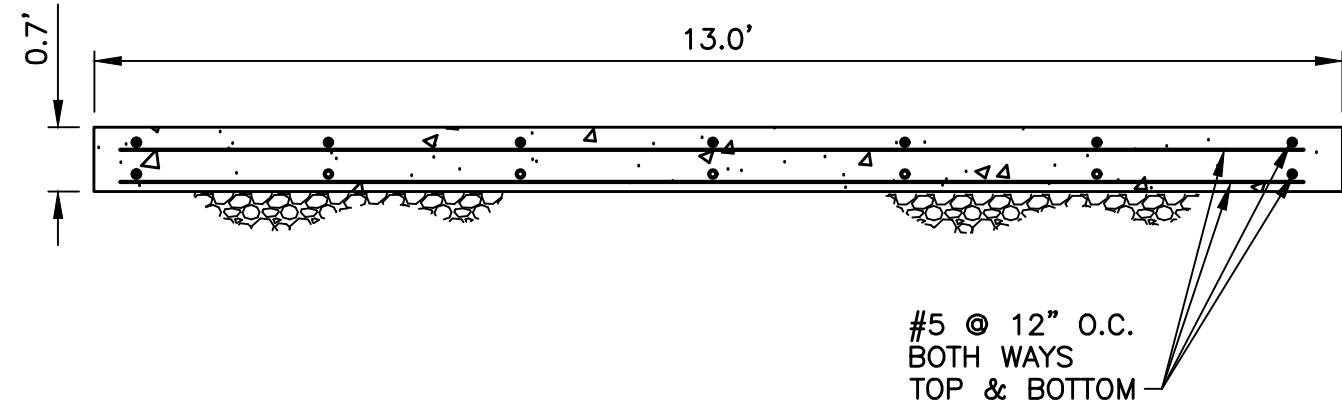
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ELEVATION B-B
SCALE: 1" = 2'

- NOTES:
1. SLAB DESIGN TO BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.



ELEVATION A-A
SCALE: 1" = 2'

5 | FRP BUILDING CONCRETE SLAB DETAILS
SCALE: 1" = 2'

C-22

MISCELLANEOUS DETAILS
Scale: VARIES



REVISIONS		
#	DESCRIPTION	DATE BY
1		
2		
3		
4		
5		
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MISCELLANEOUS DETAILS
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
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SHEET NO.
C-22

GENERAL ELECTRICAL NOTES

1. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND WIRING MADE OBSOLETE BY THIS RENOVATION AND DISPOSE OF AS DIRECTED BY THE ENGINEER.

2. CONTRACTOR SHALL VISIT THE SITE OF THE WORK PRIOR TO SUBMITTING BID TO EXAMINE CAREFULLY LOCAL CONDITIONS AND DIFFICULTIES TO BE ENCOUNTERED. ANY DISCREPANCY BETWEEN PLANS AND EXISTING CONDITIONS SHALL IMMEDIATELY BE CALLED TO THE ATTENTION OF THE ENGINEER.

3. THE CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT FROM MANUFACTURER'S RECOMMENDATIONS PRIOR TO ROUGHING IN ANY CONDUIT AND SHALL ADJUST CONDUIT SIZE, WIRE SIZE, AND CIRCUIT PROTECTION SIZE ACCORDINGLY. IF REQUIREMENTS ARE LARGER THAN CALLED FOR ON ELECTRICAL PLANS NOTIFY THE ENGINEER IMMEDIATELY.

4. CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR POWER SERVICES WITH UTILITY COMPANY PRIOR TO SUBMITTING BID. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THOSE SHOWN ON PLANS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY. ALL COSTS INCURRED WITH THE UTILITY COMPANY FOR SERVICES SHALL BE INCLUDED IN THE BID PRICE. IF SUCH COSTS ARE NOT AVAILABLE AT BID TIME, CONTRACTOR SHALL INCLUDE WITH BID A LETTER FROM A RESPONSIBLE PARTY WITH THE UTILITY COMPANY STATING SUCH, AND COSTS WILL THEN BE EXCLUDED FROM THE BID PRICE.

5. ALL FIXTURES AND EQUIPMENT INSTALLED SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS SO AS TO MAINTAIN GUARANTEES.

6. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL ROUTE IN MOST DIRECT MANNER AVOIDING ANY OBSTRUCTIONS NOT INDICATED. CONTRACTOR SHALL PROVIDE TRAFFIC RATED PULL BOXES OR MANHOLES AS REQUIRED.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN THE ELECTRICAL AND OTHER TRADES, ESPECIALLY COORDINATION CONCERNING PENETRATIONS OF THE FOUNDATIONS WITH CONDUIT, UNDERGROUND SERVICES, ETC.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GROUNDING OF EQUIPMENT, DISCONNECT SWITCH, PANELBOARDS, ETC. WHETHER SHOWN ON DRAWINGS OR NOT. SEE DETAIL DRAWINGS FOR TYPICAL GROUNDING DETAILS.

9. COORDINATE ALL UNDERGROUND CONDUIT WORK WITH EXISTING UNDERGROUND WORK EG. FEEDER CIRCUITS, SEWER, GAS, TELEPHONE, WATER, DRAINAGE, ETC. LOCATE ALL UNDERGROUND UTILITIES BEFORE INSTALLATION. UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR TO PLACE BACK IN ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE CONSTRUCTION CONTRACT.

10. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT WITH THE EXISTING CONDITIONS, SHOULD CONFLICTS ARISE WHICH CANNOT BE CORRECTED WITH MINOR DEVIATIONS, THE CONTRACTOR SHALL CALL THESE CONFLICTS TO THE DESIGNERS ATTENTION BEFORE PROCEEDING. ALL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND/OR MOUNTING DETAILS SHOWN WITH MODIFICATIONS OF SAME AS REQUIRED TO SUIT FINISHED CONDITIONS.

11. THE CONTRACTOR SHALL FURNISH AND INSTALL WARNING TAPE 6" BELOW FINISHED GRADE AND DIRECTLY ABOVE ALL UNDERGROUND FEEDERS, ETC. TAPE SHALL BE PERMANENT IN NATURE AND DISPLAY A MESSAGE DESCRIBING THE TYPE SERVICE BURIED BENEATH IT.

12. THE CONTRACTOR SHALL FURNISH AND INSTALL THE PROJECT PER THE DETAILS AS SHOWN.

13. CONDUIT AND WIRE SHALL BE ROUTED FROM THE POINT OF SUPPLY TO EACH LOAD AS SHOWN. ANY DEVICE BETWEEN THE SUPPLY (EG. DISC SWITCH, CIRCUIT BREAKERS, ETC) AND LOAD SHALL CONTAIN THE SAME SIZE AND QUANTITY OF CONDUCTORS ON BOTH THE SUPPLY AND THE LOAD SIDE OF THE DEVICE.

14. CONTRACTOR SHALL PROVIDE PROPERLY SIZED ENCLOSURES OR ADDITIONAL WIREWAYS AS REQUIRED FOR ALL WIRING. CONTRACTOR SHALL MAKE ALL REQUIRED ALLOWANCES BEFORE BIDDING TO PROVIDE AND INSTALL MULTIPLE LUGS PER PHASE FOR ALL EQUIPMENT REQUIRING SAME.

15. CONTRACTOR SHALL PROVIDE PERMANENT LAMINATED LABELS FOR EACH DISCONNECT SWITCH, CONTROL DEVICE, FEEDER BREAKER, ETC. LABELING SHALL BE A MINIMUM OF 3/8" ENGRAVED BLACK LETTERS ON WHITE BACKGROUND. LABELS SHALL BE CONSTRUCTED OF MINIMUM 1" WIDE BY LENGTH AS REQUIRED LAMINATED PLASTIC SECURELY FASTENED TO DEVICE WITH STAINLESS STEEL HARDWARE. PRESSURE SENSITIVE "STICK ON" LABELS SHALL NOT BE ALLOWED.

16. ALL SPARE CONDUIT SHALL BE PROVIDED WITH A NONMETALLIC FISH ROPE AND SHALL BE CAPPED WITH RGS CAPS FOR RGS CONDUIT AND PVC CAPS FOR PVC CONDUITS.

17. ALL SERVICES SHALL BE INSTALLED BETWEEN TERMINATIONS WITHOUT SPLICES. SPLICES SHALL ONLY BE ALLOWED WHERE SHOWN OR DETAILED ON THE DRAWINGS. UNDERGROUND SPLICES OR TERMINATIONS SHALL NOT BE ALLOWED FOR ANY SERVICE, UNLESS OTHERWISE NOTED.

18. ALL CONDUITS INSTALLED THIS PROJECT SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS. ALL EXPOSED CONDUIT SHALL BE ALUMINUM TYPE. SECURELY FASTENED WITH ALUMINUM ONE HOLE CLAMPS AND CLAMP BACKS AND STAINLESS STEEL TYPE HARDWARE, AS REQUIRED BY
- THE SUPPORTING MEDIUM. EMT TYPE CONDUIT SHALL NOT BE USED. ALL UNDERGROUND CONDUIT SHALL BE PVC EXCEPT THE 90 DEGREE BENDS WHICH SHALL BE PVC COATED RGS. TRANSITION FROM CONCRETE ENCASED PVC COATED RGS CONDUIT TO ALUMINUM CONDUIT SHALL BE MADE AFTER THE PVC COATED RGS PASSES THROUGH THE CONCRETE.

19. ELECTRICAL SYSTEMS AND DEVICES THIS PROJECT SHALL BE INSTALLED PER THE NATIONAL ELECTRICAL CODE AND TYPICAL DETAILS AS SHOWN, WITH MODIFICATIONS AS REQUIRED TO SUIT EXISTING CONDITIONS, SPECIFICALLY NFPA 70 (2008), NATIONAL ELECTRICAL CODE.

20. CONTRACTOR SHALL UTILIZE ONE LINE DIAGRAMS AS A DESCRIPTION OF THE DEVICES REQUIRED AND THE QUANTITY AND SIZE OF SAME ONLY. CONTRACTOR SHALL ARRANGE THE CIRCUIT BREAKERS, SPACES, ETC. AS REQUIRED BY THE MANUFACTURER.

21. ALL LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS FOR WATER EQUIPMENT, ETC., ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH THE EXACT FIELD LOCATION OF ALL EQUIPMENT AND PROVIDE ELECTRICAL SERVICE OR CONTROLS AT THE CLOSEST APPROPRIATE JUNCTION BOX OF THE EQUIPMENT. FLEXIBLE CONDUIT RUNS BETWEEN DISCONNECT SWITCHES OR OTHER RACEWAYS AND THE APPROPRIATE EQUIPMENT JUNCTION BOX SHALL BE LIMITED TO 18" MAXIMUM. SEE SPECIFICATIONS FOR ALL ALLOWABLE TYPE OF FLEXIBLE CONDUIT.

22. ALL UNMARKED DISCONNECT SWITCHES SHALL BE A MINIMUM OF 30A AND RATED FOR PHASE AND VOLTAGE OF THE BRANCH CIRCUIT SERVING THE ASSOCIATED PIECE OF EQUIPMENT. ALL SWITCHES OVER 30A ARE SO DESIGNATED BY THE AMPERE RATING ADJACENT TO THE DISCONNECT SWITCH. ALL DISCONNECT SWITCHES SHALL BE FUSED UNLESS SHOWN OTHERWISE. ALL DISCONNECT SWITCHES SHALL BE PROVIDED WITH GROUND BLOCKS FOR TERMINATION AND CONTINUATION OF THE EQUIPMENT GROUND.

23. ALL UNMARKED RECEPTACLES 120V, 208V, 1 PHASE, ETC. SHALL BE 20 AMP MINIMUM. ALL RECEPTACLES OVER 20 AMPS ARE SO DESIGNATED BY THE AMPERE RATING ADJACENT TO THE RECEPTACLE.

24. ALL CONDUIT SHOWN TO BE STUBBED OUT SHALL TERMINATE A MINIMUM OF 5'-0" BEYOND ANY FOUNDATION AND BE ENCASED IN A MINIMUM OF 3" RED CONCRETE ALL AROUND.

25. ALL HARDWARE UTILIZED THIS PROJECT SHALL BE STAINLESS STEEL.

26. ALL UNDERGROUND CONDUITS SHOWN SHALL BE ENCASED IN A MINIMUM OF 3" RED CONCRETE ALL AROUND. CONDUIT SHALL BE A MINIMUM OF 18" BELOW GRADE UNLESS SHOWN OTHERWISE. ALL SPARE CONDUIT SHALL BE PROVIDED WITH A TRACEABLE METALLIC FISH ROPE AND SHALL BE CAPPED WITH RGS CAPS FOR RGS CONDUIT AND PVC CAPS FOR PVC CONDUIT.

27. ELECTRICAL SYSTEMS AND DEVICES THIS PROJECT SHALL BE INSTALLED PER THE NATIONAL ELECTRICAL CODE AND TYPICAL DETAILS AS SHOWN, WITH MODIFICATIONS AS REQUIRED TO SUIT EXISTING CONDITIONS, SPECIFICALLY NFPA 70 (2005), NATIONAL ELECTRICAL CODE.

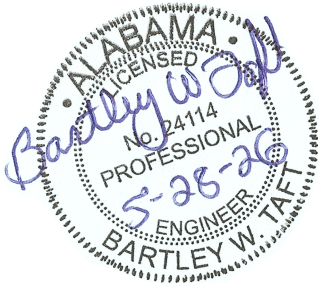
28. CONTRACTOR SHALL SUPPLY NEMA CONFIGURATION RECEPTACLES AS REQUIRED TO MATCH EQUIPMENT MANUFACTURER'S EQUIPMENT PLUGS.

29. CONTRACTOR SHALL FURNISH, INSTALL AND WIRE FLEXIBLE CORDS AND PLUGS FOR ALL CORD CONNECTED EQUIPMENT. CORDS AND THEIR ASSOCIATED FITTINGS SHALL BE SUITABLE FOR THE USE INTENDED PER ARTICLE 400 OF THE NEC. AS A MINIMUM, CORD SHALL BE TYPE "SO" FOR EXTRA HARD SERVICE USAGE. CONDUCTOR SIZE SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

30. THE USE OF THE TERM "PROVIDE" SHALL MEAN TO FURNISH, INSTALL AND WIRE THE ASSOCIATED DEVICE OR EQUIPMENT, COMPLETE AND READY FOR THE INTENDED USE".

31. ALL LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS FOR MECHANICAL EQUIPMENT, ETC., IS APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH THE EXACT FIELD LOCATION OF ALL EQUIPMENT AND PROVIDE ELECTRICAL SERVICE OR CONTROLS AT THE CLOSEST APPROPRIATE JUNCTION BOX OF THE EQUIPMENT. FLEXIBLE CONDUIT RUNS BETWEEN DISCONNECT SWITCHES OR OTHER RACEWAYS AND THE APPROPRIATE EQUIPMENT JUNCTION BOX SHALL BE LIMITED TO 18" MAXIMUM. SEE SPECIFICATIONS FOR ALLOWABLE TYPE OF FLEXIBLE CONDUIT.

32. THE CONTRACTOR SHALL BE AWARE THE PLAN LAYOUT DRAWINGS AND DETAILS SHOWN, REPRESENT THE INTENT OF THE ELECTRICAL DESIGN FOR A GENERIC STYLE TREATMENT PLANT AND PUMP STATION WITH ASSOCIATED APPURTENANCES. THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT PROVIDED THIS PROJECT WITH ALL DISCIPLINES TO INSURE ALL ELECTRICAL AND OR CONTROLS ARE THE CORRECT VOLTAGE AND OTHERWISE COMPATIBLE. IN ADDITION, THE CONTRACTOR SHALL COORDINATE THE CONCRETE FOUNDATIONS WITH ALL DISCIPLINES TO PROVIDE AT LEAST THE MINIMUM DIMENSIONS AND CLEARANCES SHOWN. THE CONTRACTOR SHALL MAKE ALL REQUIRED ALLOWANCES TO ACCOMPLISH THE ABOVE BEFORE BIDDING.



REVISIONS		DATE	BY
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ELECTRICAL GENERAL NOTES

DALLAS COUNTY DWSRF 2022

DALLAS COUNTY WATER & SEWER AUTHORITY

DALLAS COUNTY

ALABAMA

THE KELLEY GROUP

A CIVIL ENGINEERING COMPANY

301 N Dickson St,
Tusculumia, AL 35674

800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

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PROJECT NO: 22-0020

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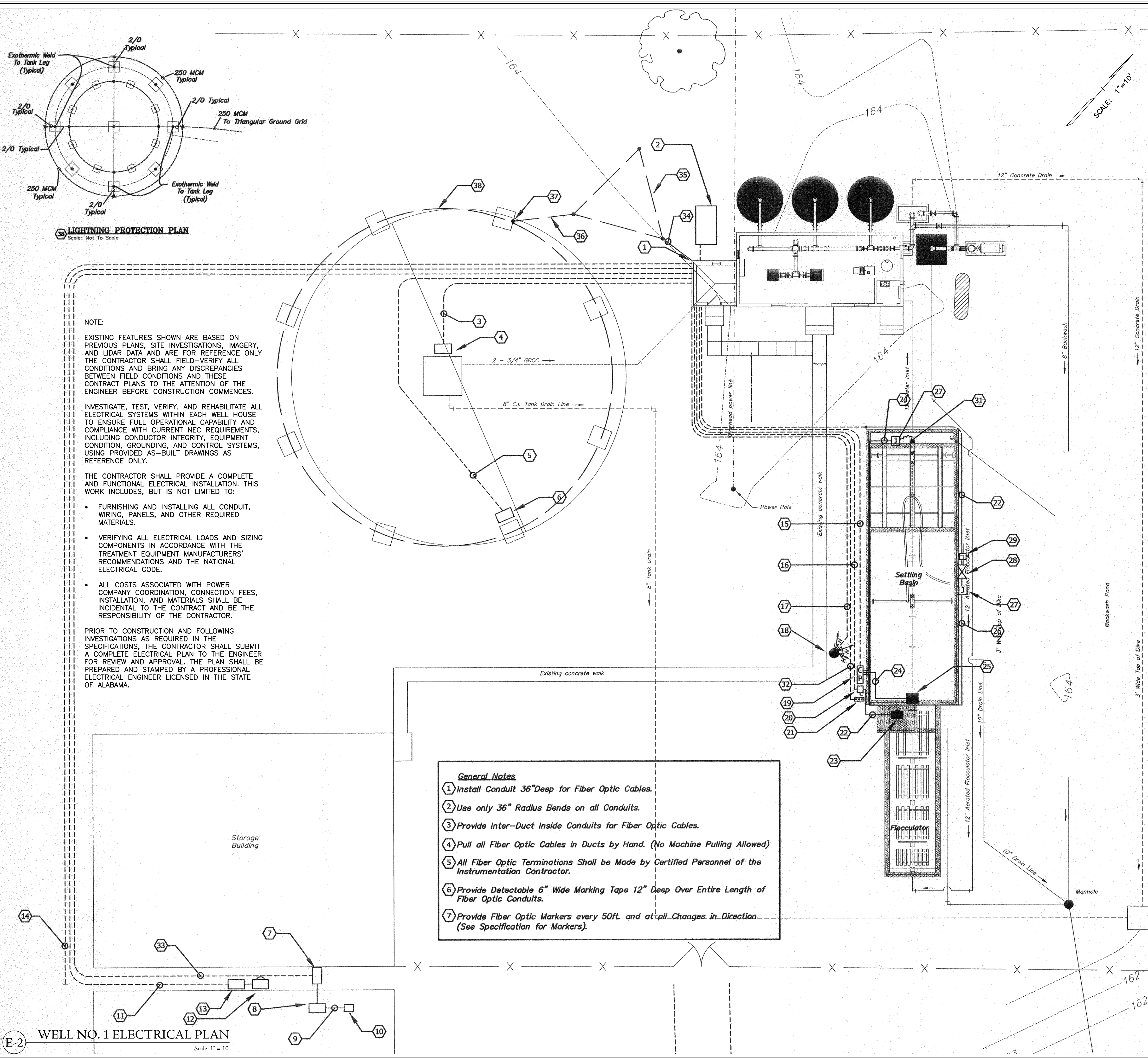
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DATE: 06/2026

SHEET NO.

E-1



KEYED NOTES

- 1 ELECTRICAL ROOM
- 2 EXIST. 150 KW 120/240V 3 PHASE 4 WIRE NEMA 3R GENERATOR
- 3 EXIST. (2)-3/4" GRCC, (1) WITH 2 #12 & #12G FOR HEATER & (1) WITH (2) 2C #16 SHIELDED CABLE FOR PRESSURE TRANSDUCER
- 4 EXIST. PRESSURE TRANSDUCER, IN NEMA 4 HINGED ENCLOSURE.
- 5 EXIST. (1) 6 PAIR MULTI-MODE FIBER-OPTIC CABLE #PTD6012 IN 3°C. AND (1) 2#12 & #12G. IN 3/4" GRC.
- 6 EXIST. RADIO PANEL
- 7 EXIST. 8"X8" NEMA 3R WIREWAY, WALL FLANGE, FITTING, ETC. TO ENTER BUILDING FOR FIBER OPTIC CABLE. (NO SHARP BEND IN FIBER OPTIC CABLE) AS REQUIRED.
- 8 EXIST. ETHERNET MANAGED SWITCH
- 9 EXIST. CAT V ETHERNET CABLE IN 1/2"C.
- 10 EXIST. OFFICE COMPUTER AND PRINTER
- 11 EXIST. 3/8" & #8G, IN 2" GRC. CONNECT TO EXISTING OFFICE PANEL.
- 12 EXISTING OFFICE OVERHEAD SERVICE
- 13 EXISTING OFFICE PANEL CONNECTED TO EXIST. PANEL IN PLANT ELECTRICAL ROOM
- 14 EXIST. 2" PVC CONDUIT FOR BILLING CENTER CONNECTED TO EXIST. PANEL "D"
- 15 NEW (2)-3/4" GRC. (1) WITH 2 #10 & #10G & (1) WITH 8 #16 & 16G.
- 16 NEW 3 #10 & #10G, IN 1" GRC.
- 17 NEW 3 #10 & #10G, 3/4"C TO NQ08 PANEL IN MCC. ROUTE VIA SWITCHES ON WALL INSIDE PLANT PAINT DOOR. "DUSK TO DOWN" ON ONE SWITCH & FLOOD LIGHTS ON SECOND SWITCH. PROVIDE NEW 20/1 BKR.
- 18 REHABILITATE CONCRETE POLE & OUTDOOR LIGHTING. SEE SCHEDULE & DETAILS 1/E- AND 2/E-
- 19 NEW CLARI-TRAC CONTROL PANEL
- 20 NEW FLOCCULATOR DISCONNECT (DETAIL 5/E-9)
- 21 NEW FLOCCULATOR ON/OFF CONTROL STATION. (DETAIL 5/E-9)
- 22 3 #12 & #12G, 3/4"C
- 23 NEW FLOCCULATOR DRIVE
- 24 2 #14 & #14G, 3/4"C.
- 25 NEW CLARI-TRAC DRIVE
- 26 12 #16 & #16G, 3/4"ORS
- 27 NEW W.P. JUNCTION BOX. SIZE AS REQUIRED
- 28 NEW VALVE ACTUATOR (240V-30)
- 29 NEW ACTUATOR DISCONNECT
- 30 NOT USED
- 31 NEW FLOCCULATOR LIMIT SWITCH
- 32 3 #16 & #16G. 82C #16 SHIELDED IN 3/4" GRC.
- 33 EXIST. (1) 6 PAIR MULTI-MODE FIBER OPTIC CABLE #PTD6012 IN 3°C.
- 34 EXIST. #3/8" G. IN 3/4" CTO TRANSFER SWITCH GRD, BUILDING STEEL AND CW PIPE
- 35 EXIST. TRIANGULAR GROUND GRID.
- 36 EXIST. 250 MCM BARE COPPER.
- 37 EXIST. EXOTHERMIC WELD TO LIGHTNING PROTECTION PLAN.
- 38 EXIST. LIGHTNING PROTECTION PLAN.

- General Notes**
- 1 Install Conduit 36" Deep for Fiber Optic Cables.
 - 2 Use only 36" Radius Bends on all Conduits.
 - 3 Provide Inter-Duct Inside Conduits for Fiber Optic Cables.
 - 4 Pull all Fiber Optic Cables in Ducts by Hand. (No Machine Pulling Allowed)
 - 5 All Fiber Optic Terminations Shall be Made by Certified Personnel of the Instrumentation Contractor.
 - 6 Provide Detectable 6" Wide Marking Tape 12" Deep Over Entire Length of Fiber Optic Conduits.
 - 7 Provide Fiber Optic Markers every 50ft. and at all Changes in Direction (See Specification for Markers).

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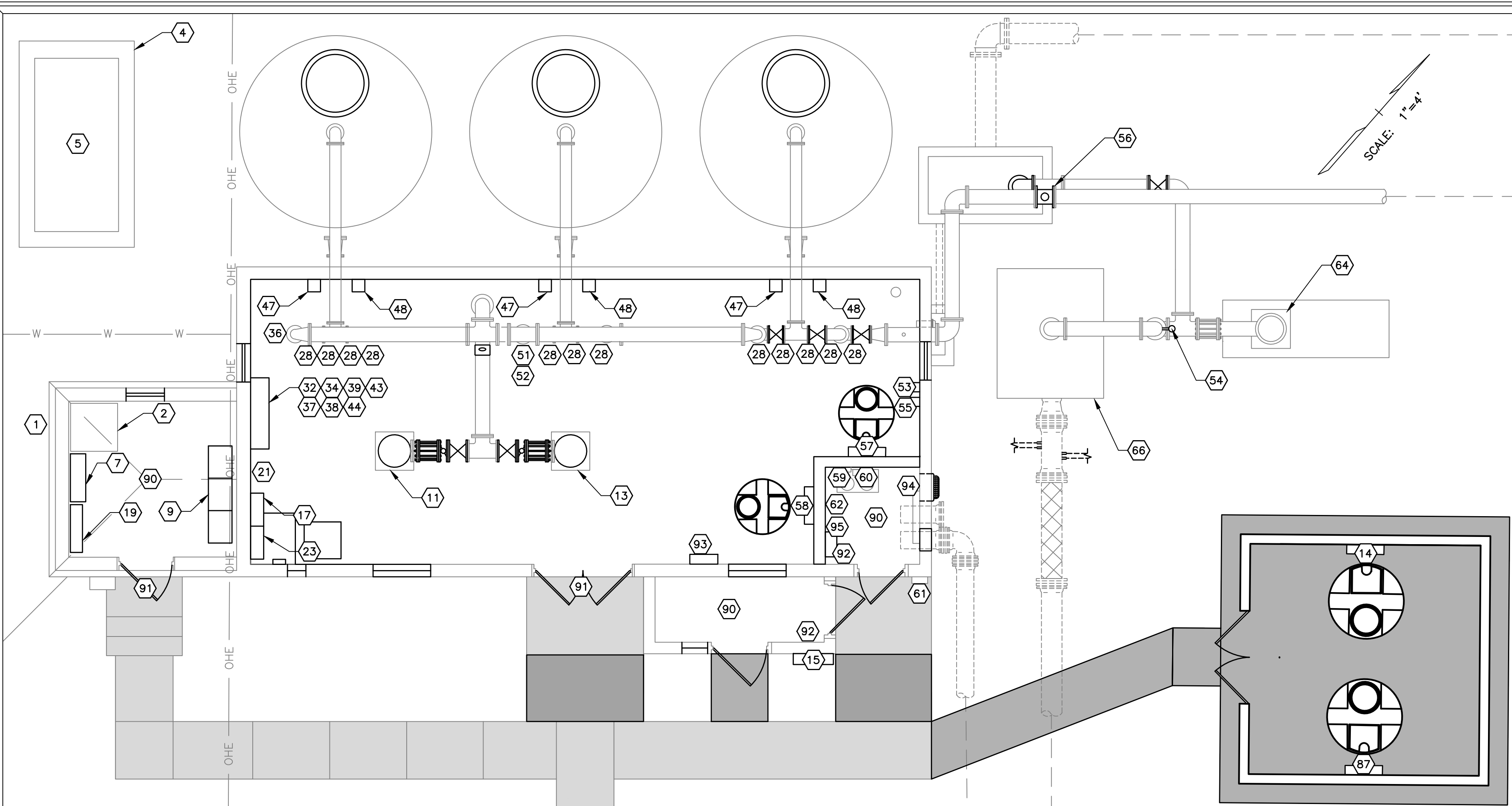
WELL NO. 1 ELECTRICAL PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
301 N. Dickson St.
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CHECKED BY: BWT
SCALE: AS NOTED
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SHEET NO.
E-2



WELL #1 ELECTRICAL PLAN

SCALE: 1" = 4'

NOTE:

EXISTING FEATURES SHOWN ARE BASED ON PREVIOUS PLANS, SITE INVESTIGATIONS, IMAGERY, AND LIDAR DATA AND ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL FIELD-VERIFY ALL CONDITIONS AND BRING ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE CONTRACT PLANS TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION COMMENCES.

INVESTIGATE, TEST, VERIFY, AND REHABILITATE ALL ELECTRICAL SYSTEMS WITHIN EACH WELL HOUSE TO ENSURE FULL OPERATIONAL CAPABILITY AND COMPLIANCE WITH CURRENT NEC REQUIREMENTS, INCLUDING CONDUCTOR INTEGRITY, EQUIPMENT CONDITION, GROUNDING, AND CONTROL SYSTEMS, USING PROVIDED AS-BUILT DRAWINGS AS REFERENCE ONLY.

THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL ELECTRICAL INSTALLATION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO:

- FURNISHING AND INSTALLING ALL CONDUIT, WIRING, PANELS, AND OTHER REQUIRED MATERIALS.
- VERIFYING ALL ELECTRICAL LOADS AND SIZING COMPONENTS IN ACCORDANCE WITH THE TREATMENT EQUIPMENT MANUFACTURERS' RECOMMENDATIONS AND THE NATIONAL ELECTRICAL CODE.
- ALL COSTS ASSOCIATED WITH POWER COMPANY COORDINATION, CONNECTION FEES, INSTALLATION, AND MATERIALS SHALL BE INCIDENTAL TO THE CONTRACT AND BE THE RESPONSIBILITY OF THE CONTRACTOR.

PRIOR TO CONSTRUCTION AND FOLLOWING INVESTIGATIONS AS REQUIRED IN THE SPECIFICATIONS, THE CONTRACTOR SHALL SUBMIT A COMPLETE ELECTRICAL PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. THE PLAN SHALL BE PREPARED AND STAMPED BY A PROFESSIONAL ELECTRICAL ENGINEER LICENSED IN THE STATE OF ALABAMA.

CONTRACTOR NOTES:

- ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
- ELECTRICAL EQUIPMENT SHALL BE FULLY RATED FOR THE FAULT CURRENT INDICATED ON THE PLANS. NO SERIES RATING WILL BE ACCEPTED.
- SEAL ALL PENETRATIONS IN ACCORDANCE WITH A UL APPROVED METHOD TO MAINTAIN THE UL RATING OF THE WALL AS INDICATED IN ARCHITECTURAL PLANS.
- NO COMBUSTIBLE MATERIAL IS ALLOWED IN ANY RETURN AIR PLENUM.
- SURFACE MOUNTED CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT (GRC) UNO.
- SUBSURFACE CONDUIT SHALL BE SCHEDULE 40PVC UNO. FOR RUNS GREATER THAN 50 FEET IN LENGTH, VERTICAL TURN UPS SHALL BE GRC SWEEP 90S WITH A BITUMASTIC COATING UNO.
- ALL EMPTY CONDUITS SHALL HAVE A 200 LBS NYLON PULLSTRING. SUBSURFACE CONDUITS TURNING UP AND TERMINATING SHALL BE CAPPED ON BOTH ENDS TO PREVENT ENTRY OF RODENTS AND OTHER FOREIGN MATTER.
- CONTRACTOR SHALL REPAIR DISTURBED AREA TO SAME COMPACTION, GRADE, SLOPE, ETC. AS ORIGINAL AREA INCLUDING REPLACEMENT OF SOD, GRASS, ROCK, GRAVEL, RIP-RAP, ETC. TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- SLOPE ALL AREAS AROUND CONCRETE PADS TO PREVENT WATER PONDING.
- CLEAN UP ALL DEBRIS AROUND CONSTRUCTION SITE DAILY.
- REMOVE ANY SPILLED DIRT, CONCRETE, ETC. FROM ANY DRIVEWAYS, ROADWAYS OR CONSTRUCTION SITE AS DIRECTED BY OWNER OR ENGINEER.
- ALL REMOVED EQUIPMENT SHALL REMAIN PROPERTY OF OWNER AND SHALL BE DELIVERED, BY CONTRACTOR, TO THE DALLAS COUNTY WATER & SEWER AUTHORITY AT A LOCATION AS INDICATED BY THE OWNER.
- ALL NEW CONDUIT AND FITTING IN CHLORINE ROOM(S) TO BE ROBROY PLASTIBOND (OR EQUAL) COATED GALVANIZED STEEL CONDUIT.

- KEYED NOTES
- EXIST. SERVICE ENTRANCE, 3 #350 & 1 #1/0, 3"GRC. 2 PARALLEL RUNS.
 - EXIST. 600 AMP AUTOMATIC TRANSFER SWITCH
 - 3 #350, 1 #1/0 & #1g, 3" GRC, 2 PARALLEL RUNS
 - EXIST. CONCRETE SLAB
 - EXIST. 150KW 120/240V 3φ4W NEMA 3R STANDBY GENERATOR
 - 3 #4/0, 1 #1/0 & #4g, 3" GRC
 - NEW I-LINE PANEL "D"
 - 3 #500 & 1 #2/0 φ #3G, 3"GRC.
 - NEW 240V MCC. ADD FEEDER BREAKERS, QOBVF BREAKERS, & VFD AS SHOWN ON SCHEDULE, AS REQ'D BY ELEC. ENG., ELECTRICIAN, ETC.
 - NEW 3 #3 & #8G, 1 1/4" GRC. ROUTED OVERHEAD.
 - EXISTING 15HP SERVICE PUMP TO BE REPLACED. DISCONNECT EXISTING PUMP FROM OLD WIRING & CONNECT NEW PUMP TO NEW CONDUIT & WRE.
 - NEW 3 #6 & #8G, 1"GRC. ROUTED OVERHEAD.
 - EXISTING 30HP SERVICE PUMP TO BE REPLACED. DISCONNECT EXISTING PUMP & CONNECT NEW PUMP TO NEW CONDUIT & WIRE.
 - NEW POLY ALUMINUM CHLORIDE EQUIPMENT, WIRING, & CONNECTIONS AS REQUIRED BY MANUFACTURER FOR CONNECTION TO NEW MCC
 - NEW MSA SCBA UNIT & CONNECTIONS AS REQ'D BY MANUFACTURER
 - 3 #3 & #8g, 1 1/4"C. CONNECT TO NEW 100/2 IN MCC.
 - NEW NQOD PANEL WITH TVSS (FOR INSTRUMENTATION).
 - 3 #12 & #12g, 3/4"GRC.
 - NEW RTU-BY SCADA CONTRACTOR.
 - 7 #16 & #16G-3/4"GRC
 - NEW FILTER BACKWASH CONTROL STATION (DETAIL 8/E-9 & 5/E-9)
 - 3 #3 & #8G, 1 1/4"C. CONNECT TO NEW 100/3 IN MCC.
 - NEW NQOD PANEL FOR ELECTRIC VALVE ACTUATORS (230V-3φ)
 - 120 #16, 2 #12 & #12g, 2"C.
 - 36 #12 & #12G, 1 1/4"C.
 - CAST WEATHERPROOF JUNCTION BOX WITH HUBS-SIZE AS REQUIRED TO BE ALUMINUM EXCEPT IN CHLORINE ROOM.
 - 3 #12 & #12G, 1/2" SEALTITE C.
 - NEW ACTUATORS BY MECHANICAL-240 VOLT 3 PHASE.
 - 12 #16 & #16G, 1/2" SEALTITE
 - (4) 2C #16 SHIELDED, IN 3/4"GRC.
 - 6 #14 & #14G, 3/4"C.
 - NEW INSTRUMENT PANEL.
 - 2 #14 & #14G, 1/2"C. IN 3 NaCL2 ROOM.
 - COMBINATION FINISHED WATER pH METER & TURBIDIMETER
 - (2) 2C #16 SHIELDED, 3/4" GRC
 - MANUFACTURER'S CABLE IN APPROPRIATE SIZE CONDUIT. CABLE BY INSTRUMENT SUPPLIER
 - NEW pH PROBE
 - NEW TURBIDIMETER PROBE
 - NEW FINISHED WATER FLOWMETER
 - 2C #16 SHIELDED, 1/2"C. NOT IN CL2 ROOM.
 - (3) 2c #16 SHIELDED, 3/4"GRC
 - NEW FINISHED WATER FLOW TRANSDUCER
 - NEW CL2 ANALYZER
 - 8 #14 & #14G, 3/4"C.
 - SEAL-OFF
 - NEMA 12 HINGED COVER JUNCTION BOX-SIZE PER NEC AS REQUIRED. USE MEYER'S HUBS FOR CONDUIT ENTRANCE. PROVIDE GROUND BAR IN EACH J.BOX
 - NEMA 12 HINGED COVER JUNCTION BOX- SIZE PER NEC AS REQUIRED. USE MEYER'S HUBS FOR CONDUIT ENTRANCE. PROVIDE GROUND BAR IN EACH J.BOX. PROVIDE ENOUGH PHOENIX CONTACT # 3044160 TERMINALS WITH HAVE A HOT AND NEUTRAL FOR EACH ACTUATOR SERVED FROM THAT BOX.
 - 4 #14 & #14G, 3/4"C.
 - 8 #16 & #16g=G, 1"C. RTU TRANSFER.
 - NEW LOSS OF HEAD dp INDICATOR/ TRANSMITTER
 - NEW dp TRANSDUCER

- NEW RAW PH CONTROLLER
- NEW RAW pH PROBE
- NEW BACKWASH FLOWMETER
- NEW BACKWASH FLOW TRANSDUCER
- NEW SODIUM PERMANGANATE EQUIPMENT, WIRING, & CONNECTIONS AS REQUIRED BY MANUFACTURER FOR CONNECTION TO NEW MCC
- NEW POLY ORTHOPHOSPHATE EQUIPMENT, WIRING, & CONNECTIONS AS REQUIRED BY MANUFACTURER FOR CONNECTION TO NEW MCC
- EXISTING CL2 SCALE
- EXISTING CL2 WEIGHT TRANSDUCER
- NEW CL2 LEAK DETECTOR
- NEW CL2 LEAK DETECTOR PROBE
- NEW 3 #1 & #6g, 1 1/4"GRC. ROUTE OVERHEAD UNTIL OUTSIDE OF BUILDING, THEN UNDERGROUND TO WELL PUMP.
- EXISTING WELL PUMP W/ NEW CONNECTIONS & ACCESSORIES REQ'D FOR NEW VFD
- 3 #12 & #12g, 3/4"GRC. ROUTE OVERHEAD UNTIL OUTSIDE OF BUILDING THEN UNDERGROUND TO NEW AERATOR. CONNECT TO NEW STARTER IN MCC.
- NEW AERATOR BLOWER
- 8 #16 & #16G,, 3/4"C.
- 2 #10 & #10G,, 1"GRC. CONNECT TO NEW 30/1 BKR IN EXISTING NQOB
- 2 #14 & #14G, 3/4"GRC.
- NEW CLARI-TRAC CONTROL PANEL
- NEW CLARI-TRAC DRIVE MOTOR
- 3 #12 & #12G, 3/4"GRC.
- 12 #16 & #16G, 3/4"GRC.
- ACTUATOR DISCONNECT, 30A 3P NON-FUSED, 240V, NEMA 4X WITH GRD BAR. SQUARE D #HU361DS. MOUNT PER DETAIL 5/E-9.
- NEW ACTUATOR
- 5 #16 & 2C #16 SHIELDED, 3/4"C.
- NEW FLOCCULATOR CONTROL STATION (DETAIL 9/E-9)
- 3 #10 & #10G,, 1"C. CONNECT TO NEW VFD IN MCC
- FLOCCULATOR DISCONNECT, 30A 3P NON-FUSED, 240V, NEMA 4X SQUARE D #HU361DS. MOUNT PER DETAIL 5/E-9
- NEW FLOCCULATOR DRIVE MOTOR
- 2C #16 SHIELDED, 3/4" GRC.
- 12"x12"x8" NEMA 4 ENCLOSURE WITH PRESSURE TRANSDUCER & ELECTRIC HEATER
- NEW (1) 6 PAIR MULTI-MODE FIBER-OPTIC CABLE #PTD6012 IN 3"C. AND (1) 2/12 & #12 G. IN 3/4" PVC.
- EXIST. RADIO PANEL
- 3 #3 & #6G. IN 2"C.
- EXISTING OFFICE PANEL
- NEW SODIUM HYDROXIDE EQUIPMENT, WIRING, & CONNECTIONS AS REQUIRED BY MANUFACTURER FOR CONNECTION TO NEW MCC
- EXISTING TROUGH TO REMAIN
- NOT USED
- REPLACE OVERHEAD LIGHT
- REPLACE ENTRANCE LIGHT
- REPLACE WALL SWITCH & COVER
- REPLACE WALL HEATER ROUTED TO PB-B
- REPLACE EXHAUST FAN
- REPLACE WALL HEATER
- 80 #16, 2 #12 & #12G. - 1 1/2"C.
- 50 #16, 2 #12 & #12G.-1"C.
- 24 #12, & #12G.-1"C
- 15 #12, & #12G.-3/4"C.
- 1 1/2" CONDUIT & WEATHERHEAD AS REQUIRED FOR CT.
- ALABAMA POWER CO. METER AND SOCKET
- 1 #6GR- 3/4"C.
- 1 #3/0GR IN 1"C.
- EXIST. GROUND MAT
- EXIST. #250 MCM 24" DEEP TO TANK RING GRID
- EXIST. EXOTHERMIC WELD TO TANK RING GRID
- EXIST. TANK RING GRID
- 14 #16 & 2C #16 SHIELDED IN 1 1/4" FOR REMOTE ANNUNCIATOR
- 2 #16 & #16G, - 3/4"C.
- 2 #10 & #10G,, 1"C. TO NEW 30/2 IN NEW NQOB PANEL "A"
- 2 #10 & #10G,, 1"C. TO NEW 20/1 IN NEW NQOB PANEL "A"



WELL NO. 1 ELECTRICAL PLAN

Scale: 1" = 10'

REVISIONS	DESCRIPTION	#	DATE	BY
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WELL NO. 1 ELECTRICAL PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY.
301 N. Dickson St.
Tusculum, AL 35674
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

ATTENTION:
THIS BAR = 1 INCH ON
ORIGINAL DRAWING.
ADJUST SCALE IF THIS
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PROJECT NO: 22-0020
DRAWN BY: TCW
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DATE: 06/2026

SHEET NO.
E-3

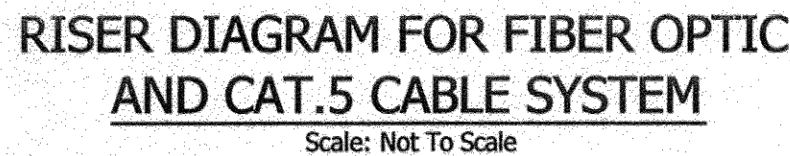
EXISTING FEATURES SHOWN ARE BASED ON PREVIOUS PLANS, SITE INVESTIGATIONS, IMAGERY, AND LIDAR DATA AND ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL FIELD-VERIFY ALL CONDITIONS AND BRING ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE CONTRACT PLANS TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION COMMENCES.

INVESTIGATE, TEST, VERIFY, AND REHABILITATE ALL ELECTRICAL SYSTEMS WITHIN EACH WELL HOUSE TO ENSURE FULL OPERATIONAL CAPABILITY AND COMPLIANCE WITH CURRENT NEC REQUIREMENTS, INCLUDING CONDUCTOR INTEGRITY, EQUIPMENT CONDITION, GROUNDING, AND CONTROL SYSTEMS, USING PROVIDED AS-BUILT DRAWINGS AS REFERENCE ONLY.

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REVISIONS			
#	DESCRIPTION	DATE	BY
1			
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WELL NO. 1 RTU DIAGRAM
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
— A CIVIL ENGINEERING COMPANY —

800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

301 N. Dickson St.,
Tusculum, AL 35674

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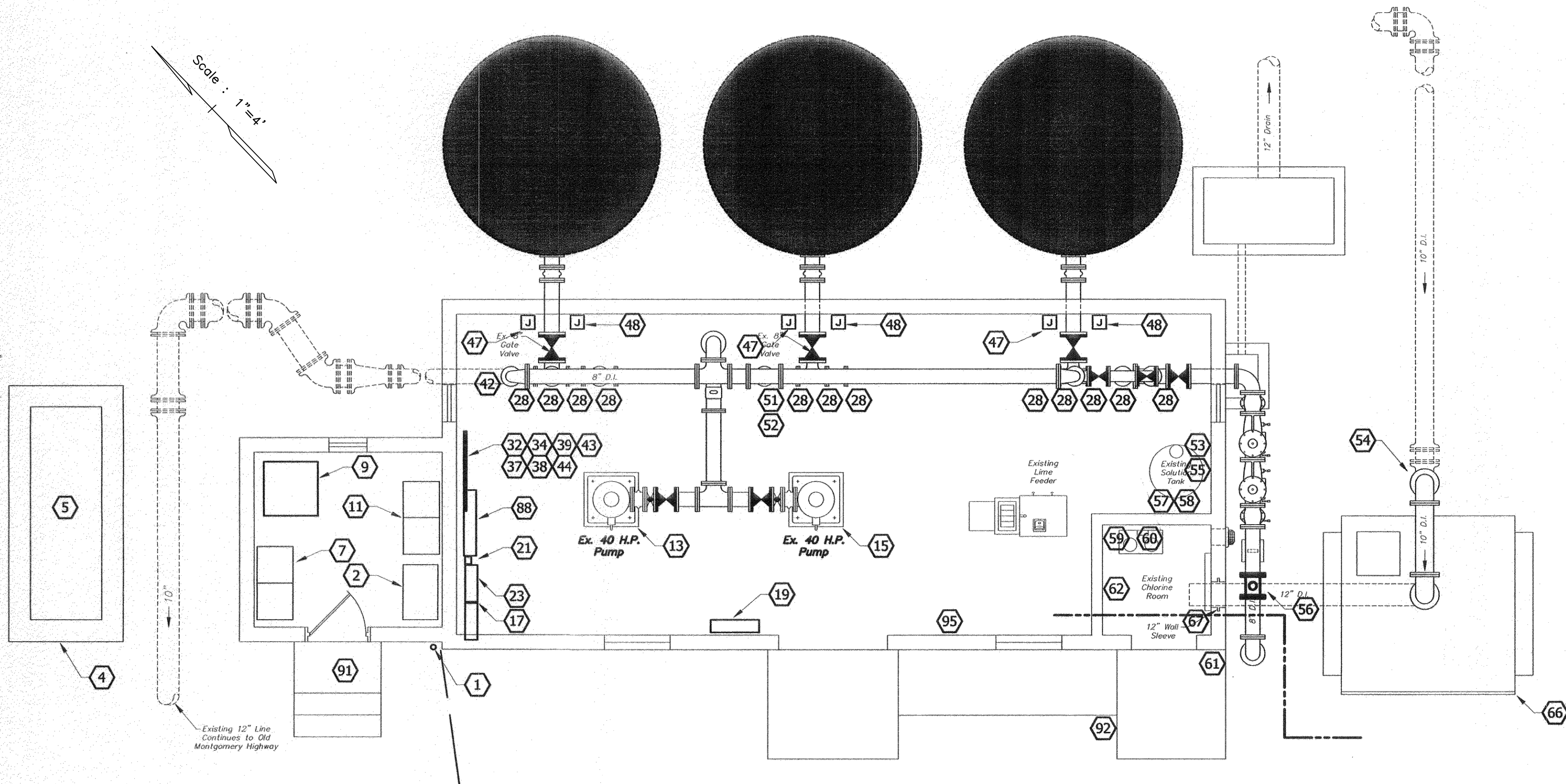
PROJECT NO: 22-0020
 DRAWN BY: TCW
 CHECKED BY: BWT
 SCALE: AS NOTED
 DATE: 06/2026

SHEET NO.
E-4



WELL NO. 1 RTU DIAGRAM

Scale: N.T.S.



PLAN VIEW

Scale: 1/4" = 1'-0"

NOTE:

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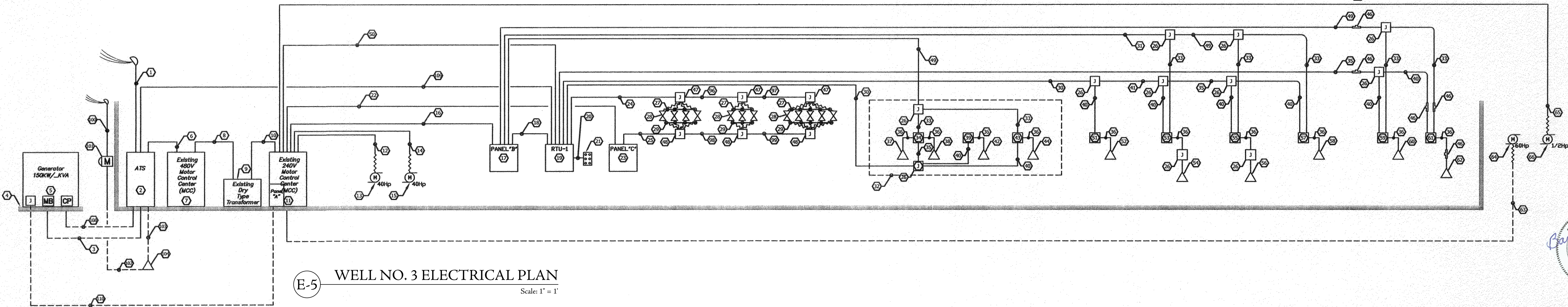
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CONTRACTOR NOTES:

- ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
- ELECTRICAL EQUIPMENT SHALL BE FULLY RATED FOR THE FAULT CURRENT INDICATED ON THE PLANS. NO SERIES RATING WILL BE ACCEPTED.
- SEAL ALL PENETRATIONS IN ACCORDANCE WITH A UL APPROVED METHOD TO MAINTAIN THE UL RATING OF THE WALL AS INDICATED IN ARCHITECTURAL PLANS.
- NO COMBUSTIBLE MATERIAL IS ALLOWED IN ANY RETURN AIR PLENUM.
- SURFACE MOUNTED CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT (GRC) UNO.
- SUBSURFACE CONDUIT SHALL BE SCHEDULE 40PVC UNO. FOR RUNS GREATER THAN 50 FEET IN LENGTH, VERTICAL TURN UPS SHALL BE GRC SWEEP 90S WITH A BITUMASTIC COATING UNO.
- ALL EMPTY CONDUITS SHALL HAVE A 200 LBS NYLON PULLSTRING. SUBSURFACE CONDUITS TURNING UP AND TERMINATING SHALL BE CAPPED ON BOTH ENDS TO PREVENT ENTRY OF RODENTS AND OTHER FOREIGN MATTER.
- CONTRACTOR SHALL REPAIR DISTURBED AREA TO SAME COMPACTION, GRADE, SLOPE, ETC. AS ORIGINAL AREA INCLUDING REPLACEMENT OF SOD, GRASS, ROCK, GRAVEL, RIP-RAP, ETC. TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- SLOPE ALL AREAS AROUND CONCRETE PADS TO PREVENT WATER PONDING.
- CLEAN UP ALL DEBRIS AROUND CONSTRUCTION SITE DAILY.
- REMOVE ANY SPILLED DIRT, CONCRETE, ETC. FROM ANY DRIVEWAYS, ROADWAYS OR CONSTRUCTION SITE AS DIRECTED BY OWNER OR ENGINEER.
- ALL REMOVED EQUIPMENT SHALL REMAIN PROPERTY OF OWNER AND SHALL BE DELIVERED, BY CONTRACTOR, TO THE DALLAS COUNTY WATER & SEWER AUTHORITY AT A LOCATION AS INDICATED BY THE OWNER.
- ALL NEW CONDUIT AND FITTING IN CHLORINE ROOM(S) TO BE ROBROY PLASTIBOND (OR EQUAL) COATED GALVANIZED STEEL CONDUIT.

KEYED NOTES

- | | | | |
|----|---|-----|--|
| 1 | EXISTING SERVICE ENTRANCE, 3 #350 & 1 #1/0, 3" GRC. 2 PARALLEL RUNS | 52 | EXISTING dp TRANSDUCER |
| 2 | EXISTING 400AMP AUTOMATIC TRANSFER SWITCH | 53 | EXISTING RAW pH CONTROLLER |
| 3 | 3 #500, 1 # 2/10 & #3G., 3" GRC. | 54 | EXISTING RAW pH PROBE |
| 4 | USE EXISTING CONCRETE SLAB | 55 | EXISTING BACKWASH FLOWMETER |
| 5 | EXISTING 200KW, 277/480, 3Ø4W, NEMA 3R STANDBY GENERATOR | 56 | EXISTING BACKWASH FLOW TRANSDUCER |
| 6 | 3 #500, 1 #2/0 & #3G., 3" GRC | 57 | EXISTING POTASSIUM PERMANGANATE SCALE |
| 7 | EXISTING 480V MCC. | 58 | EXISTING POTASSIUM PERMANGANATE TRANSDUCER |
| 8 | EXISTING CONDUIT & WIRE | 59 | EXISTING CL2 SCALE |
| 9 | EXISTING 225 KVA DRY-TYPE TRANSFORMER | 60 | EXISTING CL2 WEIGHT TRANSDUCER |
| 10 | EXISTING CONDUIT & WIRE | 61 | EXISTING CL2 LEAK DETECTOR |
| 11 | EXISTING 240V MCC. | 62 | EXISTING CL2 LEAK DETECTOR PROBE |
| 12 | EXISTING CONDUIT & WIRE | 63 | EXISTING CONDUIT & WIRE |
| 13 | EXISTING 40 HP SERVICE PUMP. | 64 | EXISTING WELL PUMP. |
| 14 | EXISTING CONDUIT & WIRE | 65 | EXISTING CONDUIT & WIRE |
| 15 | EXISTING 40 HP SERVICE PUMP. | 66 | EXISTING AERATOR |
| 16 | 3 #3 & #8G., 1 1/4" C. CONNECTING TO EXISTING 100/2 IN MCC. | 67 | EXISTING 2 #12 & #12G., 3/4" C. TO NQOB PANEL IN MCC. |
| 17 | EXISTING NQOD PANEL WITH TVSS (FOR INSTRUMENTATION.) | 68 | NOT USED |
| 18 | 7 #16, #16G.-3/4" C. | 69 | NOT USED |
| 19 | EXISTING RTU- BY SCADA CONTRACTOR. | 70 | NOT USED |
| 20 | 7 #16, #16G.-3/4" C. | 71 | NOT USED |
| 21 | FILTER BACKWASH CONTROL STATION (DETAIL 8/E-9) | 72 | NOT USED |
| 22 | 3 #3 & #8G., 1 1/4" C. CONNECTING TO EXISTING 100/3 IN MCC. | 73 | NOT USED |
| 23 | EXISTING NQOD PANEL FOR ELECTRIC VALVE ACTUATORS (230V-3Ø) | 74 | NOT USED |
| 24 | 120 #16, 2 #12 & #12G., 2" C. | 75 | NOT USED |
| 25 | 36 #12 & #12G., 1 1/4" C. | 76 | NOT USED |
| 26 | CAST WEATHERPROOF JUNCTION BOX WITH HUBS-SIZE AS REQUIRED TO BE ALUMINUM EXCEPT IN CHLORINE ROOM. | 77 | NOT USED |
| 27 | 3 #12 & #12G., 1/2" SEALTITE C. | 78 | NOT USED |
| 28 | NEW ACTUATORS BY MECHANICAL-240 VOLT 3 PHASE. | 79 | NOT USED |
| 29 | 12 #16 & #16G., 1/2" SEALTITE | 80 | NOT USED |
| 30 | (4) 2C #16 SHIELDED, IN 3/4" GRC. | 81 | NOT USED |
| 31 | 6 #14 & #14G, 3/4" GRC. | 82 | NOT USED |
| 32 | INSTRUMENT PANEL | 83 | NOT USED |
| 33 | 2 #14 & #14G, 1/2" C. | 84 | NOT USED |
| 34 | COMBINATION FINISHED WATER pH METER & TUBIDIMETER | 85 | NOT USED |
| 35 | (2) EA-2C #16 SHIELDED, 3/4" GRC. | 86 | NOT USED |
| 36 | MANUFACTURER'S CABLE IN APPROPRIATE SIZED CONDUIT. CABLE BY INSTRUMENT SUPPLIER. | 87 | NOT USED |
| 37 | EXISTING pH PROBE | 88 | EXISTING TROUGH TO REMAIN. |
| 38 | EXISTING TUBIDIMETER PROBE | 89 | EXISTING OVERHEAD SERVICE |
| 39 | EXISTING FINISHED WATER FLOWMETER | 90 | NOT USED |
| 40 | 2C #16 SHIELDED, 1/2" C. | 91 | NOT USED |
| 41 | (3) EA-2C #16 SHIELDED | 92 | NOT USED |
| 42 | EXISTING FINISHED WATER FLOW TRANSDUCER | 93 | NOT USED |
| 43 | EXISTING CL2 ANALYZER | 94 | NOT USED |
| 44 | EXISTING CL2 PROBE | 95 | NOT USED |
| 45 | 8 #14 & #14G, 3/4" C. | 96 | NOT USED |
| 46 | SEALED-OFF | 97 | NOT USED |
| 47 | NEMA 12JUNCTION BOX- SIZE PER NEC AS REQUIRED. | 98 | NOT USED |
| 48 | EXISTING NEMA 12 HINGED COVER JUNCTION BOX-SIZE PER NEC AS REQUIRED. GROUND BAR IN EACH J.BOX. PHOENIX CONTACT #3044160 TERMINALS WITH PROPER END COVERS AND END BLOCKS AND BRIDGE TYPE JUMPERS TO HAVE A HOT AND A NEUTRAL FOR EACH ACTUATOR SERVED FROM THAT BOX. | 99 | NOT USED |
| 49 | 4 #14 & #14G, 3/4" C. | 100 | EXISTING 1 1/4" CONDUIT & WEATHERHEAD FOR CT. |
| 50 | 8 #16 #16G.- 1" C. | 101 | ALABAMA POWER CO. METER AND SOCKET. |
| 51 | EXISTING LOSS OF HEAD dp INDICATOR/TRANSMITTER | 102 | 1 #6GR - 3/4" C. |
| | | 103 | 1 #3ØGR IN 1" C. |
| | | 104 | GROUND MAT |
| | | 105 | NOT USED |
| | | 106 | NOT USED |
| | | 107 | NOT USED |
| | | 108 | SIZE & QTY OF CONDUCTORS AS REQUIRED IN 1" CONDUIT FOR COORDINATION BETWEEN ATS & GENERATOR. |
| | | 109 | 2 #16 & #16G.- 3/4" C. |
| | | 110 | 2 #10 & #10G., TO EXISTING 3Ø/2 IN EXISTING NQOB PANEL "A" |



WELL NO. 3 ELECTRICAL PLAN

Scale: 1" = 1'

REVISIONS	#	DESCRIPTION	DATE	BY
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WELL NO. 3 ELECTRICAL PLAN
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

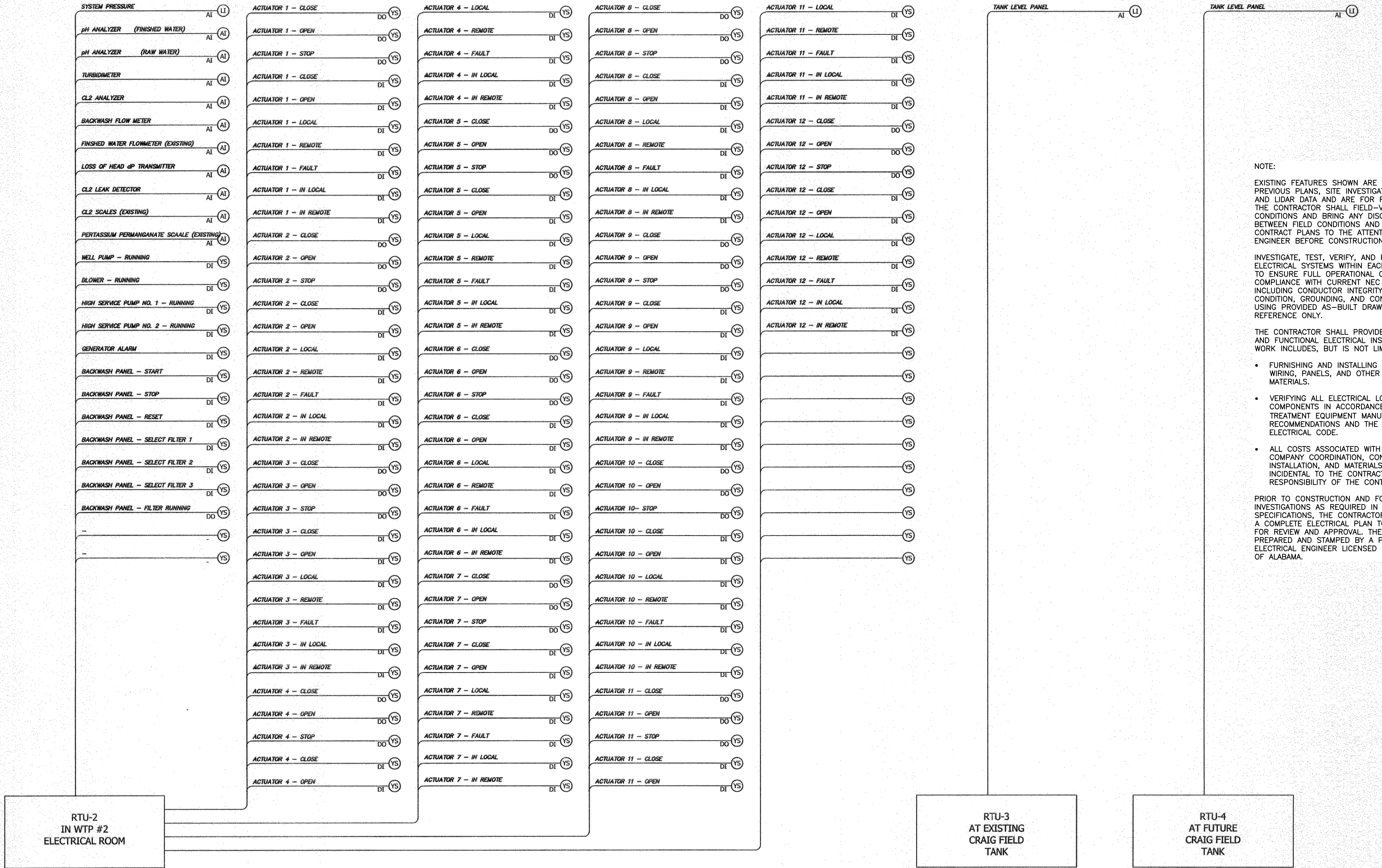
THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
301 N. Dickson St.
Tusculum, AL 35674

ATTENTION: THIS BAR = 1 INCH ON ORIGINAL DRAWING. ADJUST SCALE IF THIS BAR ≠ 1 INCH.
1"

PROJECT NO: 22-0020
DRAWN BY: TCW
CHECKED BY: BWT
SCALE: AS NOTED
DATE: 06/2026

SHEET NO.
E-5

WELL NO. 3 RTU DIAGRAM
Scale: N.T.S.



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REVISIONS		DATE	BY
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WELL NO. 3 RTU DIAGRAM
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

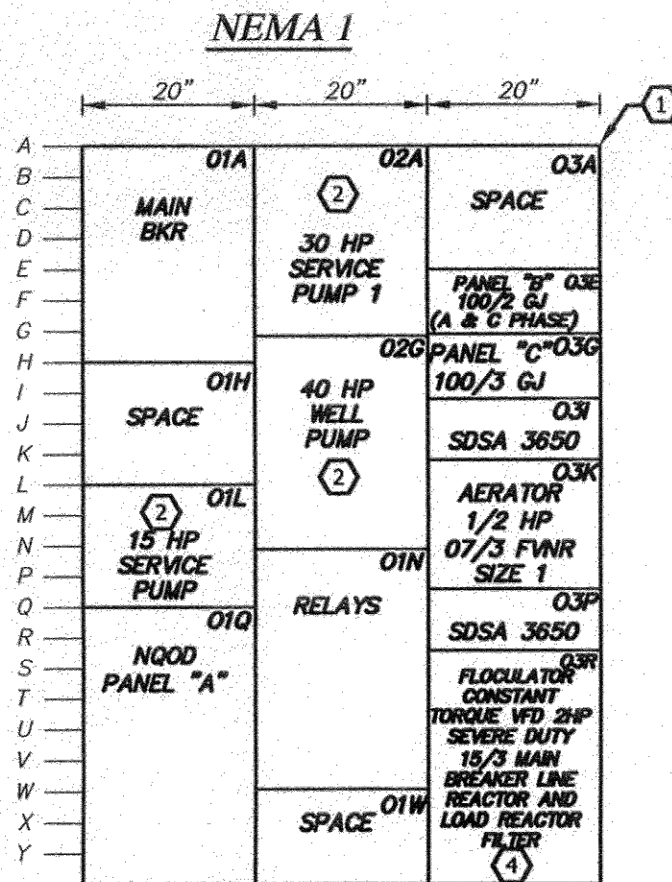
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SHEET NO.
E-6

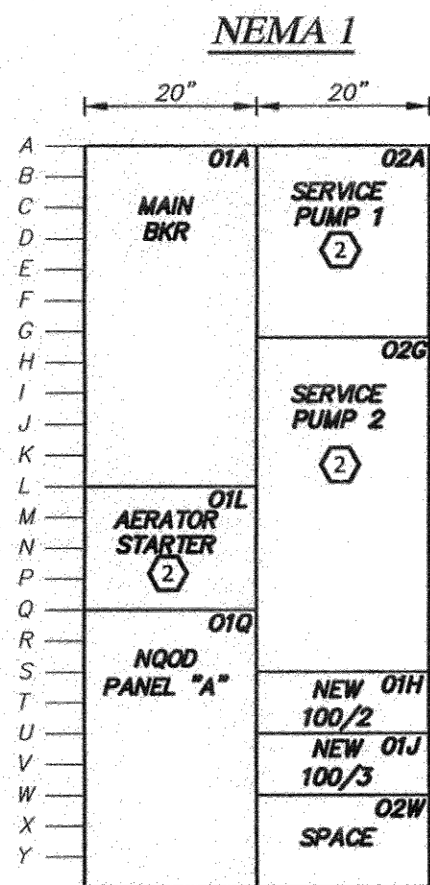




MOTOR CONTROL CENTER - WTP 1 (240V)/ Existing						
Enclosure: NEMA 3R						
Unit Location	Unit Description	Type	Hp	Crct'd Load (kW)	NEMA Size	Accessories
O1Q	NOOD PANEL "A" Existing	-	-	-	-	ADD: 1-30/1 FOR CLARI-VAC 1-30/1 FOR NEW POLE LIGHT 1-30/2 for Generator, Heater, & Battery Charger
O3A	SPACE	-	-	-	-	-
O3E	Feeder-Panel "B"	GJ	-	-	100/2 COMPACT 6	Connect to A & C Phase
O3G	Feeder-Panel "C"	GJ	-	-	100/3 COMPACT 6	-
O3I	Lightning Arrestor	-	-	-	-	SDSA3650 FOR AERATOR
O3K	Aerator	FWIR	0.5	-	7/3 MCP	HOA,RL,ETM,CP, AUX-11, C2OSS
OP	Lightning Arrestor	-	-	-	-	SDSA3690 FOR FLOCULATOR
O3R	FLOCULATOR	VFD	2	-	ALTIVAR 58	HOA, RL, ETM, CP, AUX-11, FILR, FIOF, SHTR, K

MCC-WTP 1
Existing Not to Scale

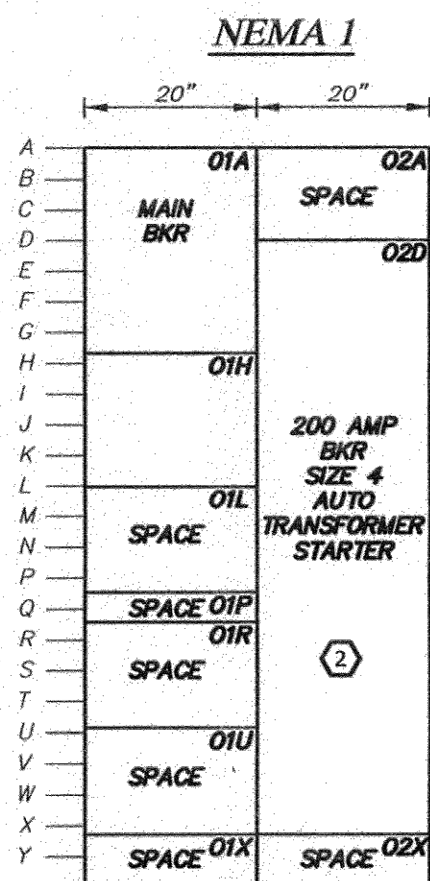
Modify as Required.
Square D Model 5
F.O. 1637963A



MOTOR CONTROL CENTER - WTP 2 (240V)/ Existing						
Enclosure: NEMA 1						
Unit Location	Unit Description	Type	Hp	Crct'd Load (kW)	NEMA Size	Accessories
O1Q	NOOD Panel "A" Existing	-	-	-	-	ADD: 1-30/2 for Generator, Heater & Battery Charger
O1J	Feeder Panel C	GJ	-	-	100/3 Compact 6	Install New Bucket in Existing Space and Make All Connections as Required. Connect to A & C Phase
O1H	Feeder Panel B	GJ	-	-	100/2 Compact 6	Install New Bucket in Existing Space and Make All Connections as Required.

MCC-WTP 2 (240V)
Existing Not to Scale

Modify as Required.
Square D Model 5
F.O. #1637963-A



MCC-WTP 2 (480V)
Existing Not to Scale

Modify as Required.
Square D Model 5
F.O. #3429447-A

MCC - ACCESSORIES LEGEND	
SYMBOL	DESCRIPTION
CP (100)	480V- 120V FUSED CONTROL POWER TRANSFORMER (#-VA OVER STANDARD) CP(100)UND
ETM	ELAPSED TIME METER
AUX-11	AUXILIARY CONTACT 1- N.O., 1-N.C. (3-# OF NO CONTACTS #-# OF NC CONTACTS) AUX-11 UND
CROSS	CLASS 30 SOLID STATE OVERLOAD UNIT WITH 1-N.O. ISOLATED CONTACT IN RELAY
SSPB	START-STOP PUSHBUTTON
HOA	HAND-OFF-AUTOMATIC SELECTOR SWITCH
RL	RUN LIGHT GREEN "ON" UND
CR22	CONTROL RELAY 2-N.O. AND 2-N.C. CONTACTS (#-# OF NO CONTACTS #-# OF NC CONTACTS
TD	TIME DELAY RELAY TIME INTERVAL AS INDICATED
LA	SQUARE D #SDSA 3650 THREE PHASE 600V LIGHTING ARRESTOR
TE	TRANSIENT VOLTAGE SURGE SUPPRESSOR 180 KA/PHASE
FCB	FEEDER CIRCUIT BREAKER
FWR	FULL VOLTAGE REVERSING STARTER
FWNR	FULL VOLTAGE NON-REVERSING STARTER
VFD	VARIABLE FREQUENCY DRIVE (ALTIVAR 60)
SSS	SOLID STATE DUAL RAMP STARTER (ALSTHART 48)
FILR	FACTORY INSTALLED LINE REACTOR 3%
FIOF	FACTORY INSTALLED OUTPUT REACTOR AND MOTOR FILTER 3%
MCB	MAIN CIRCUIT BREAKER
BPIC	ISOLATED FULL VOLTAGE BYPASS CONTACTOR WITH SWITCH
IC	ISOLATION CONTACTOR
CAS	SPECIAL RELAY BY PUMP MANUFACTURER/INSTALLED BY CONTRACTOR
PFC	POWER FACTOR CORRECTION CAPACITOR
K	SPEED CONTROL WITH POWER SUPPLY FOR VFD
TEN112	12 TERMINAL BLOCKS DIN RAIL MOUNTED- UNWIRED
TEN212	12 TERMINAL BLOCKS DIN RAIL MOUNTED- WIRED FOR NEMA 2BT
PSR	PLANT EXERCISER AND PEAK SHAVING RELAY
LSR	LOAD SHEDDING RELAY
DAR	DUPLEX ALTERNATING RELAY
FOR	FORWARD-OFF-REVERSE SELECTOR SWITCH
SHTR	STRIP HEATER WITH THERMOSTAT
TCHT	TRUCKLE CHARGE HEAT SYSTEM
PNE	PANELBOARD

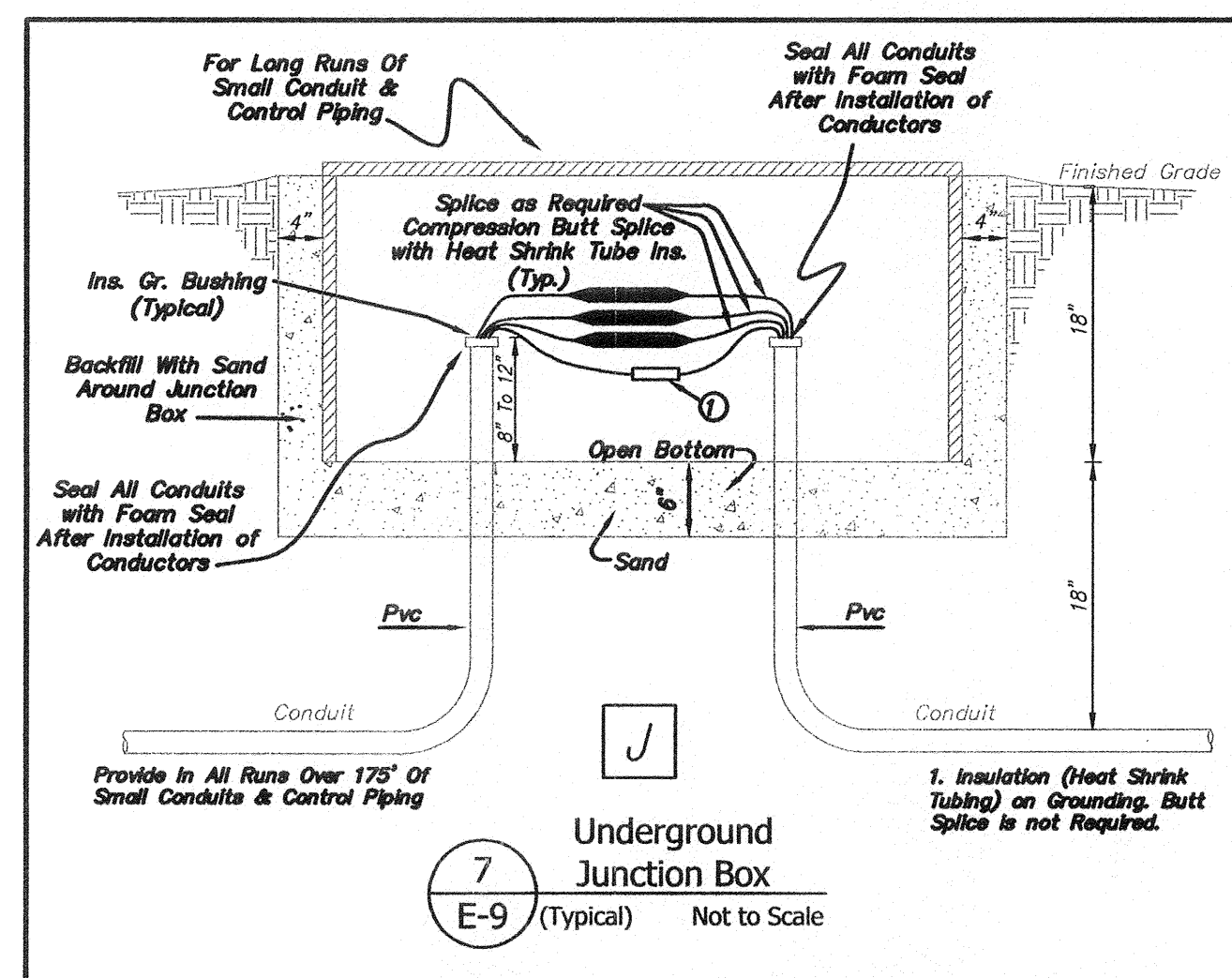
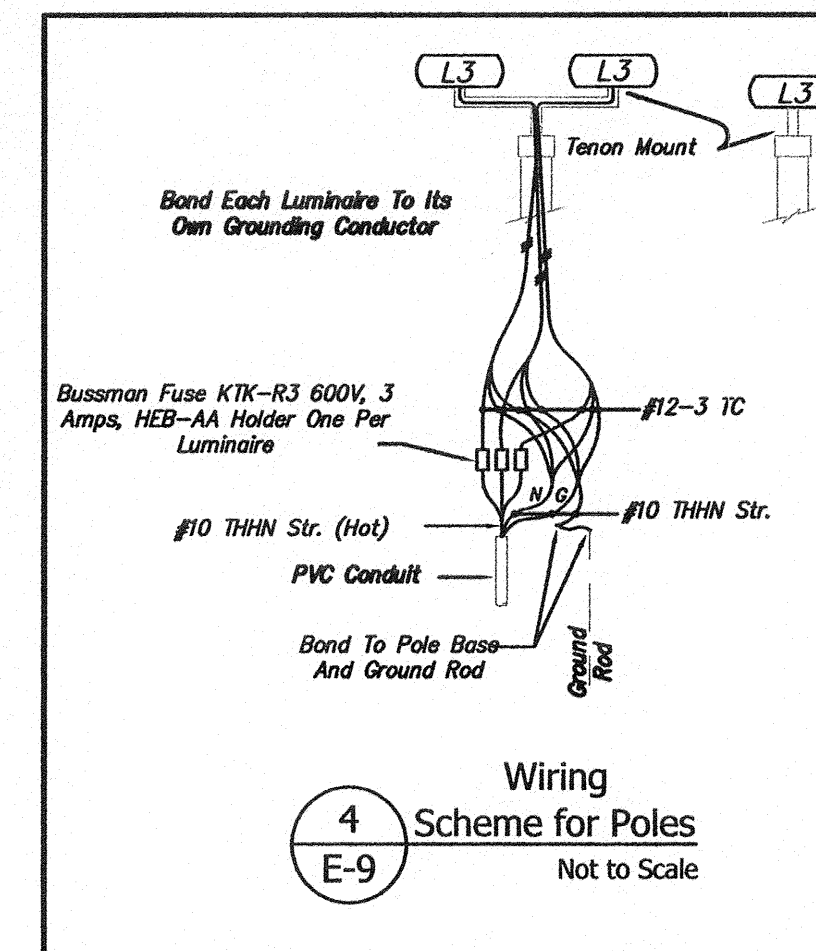
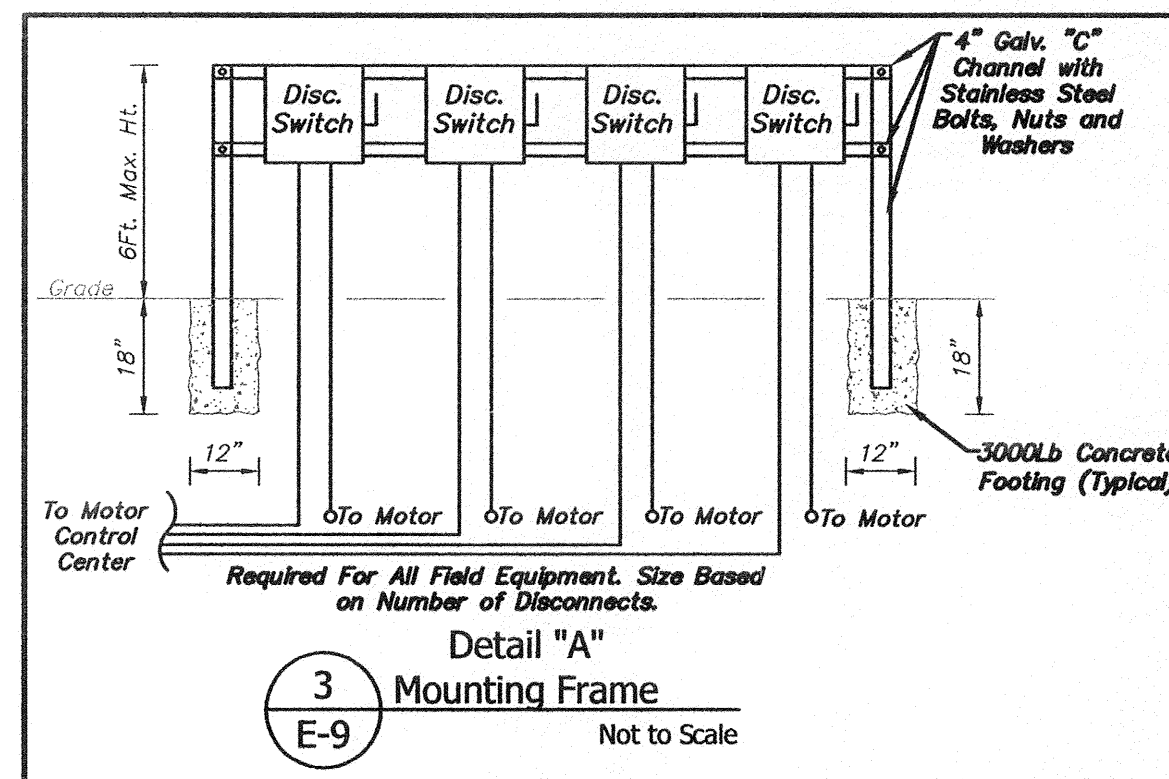
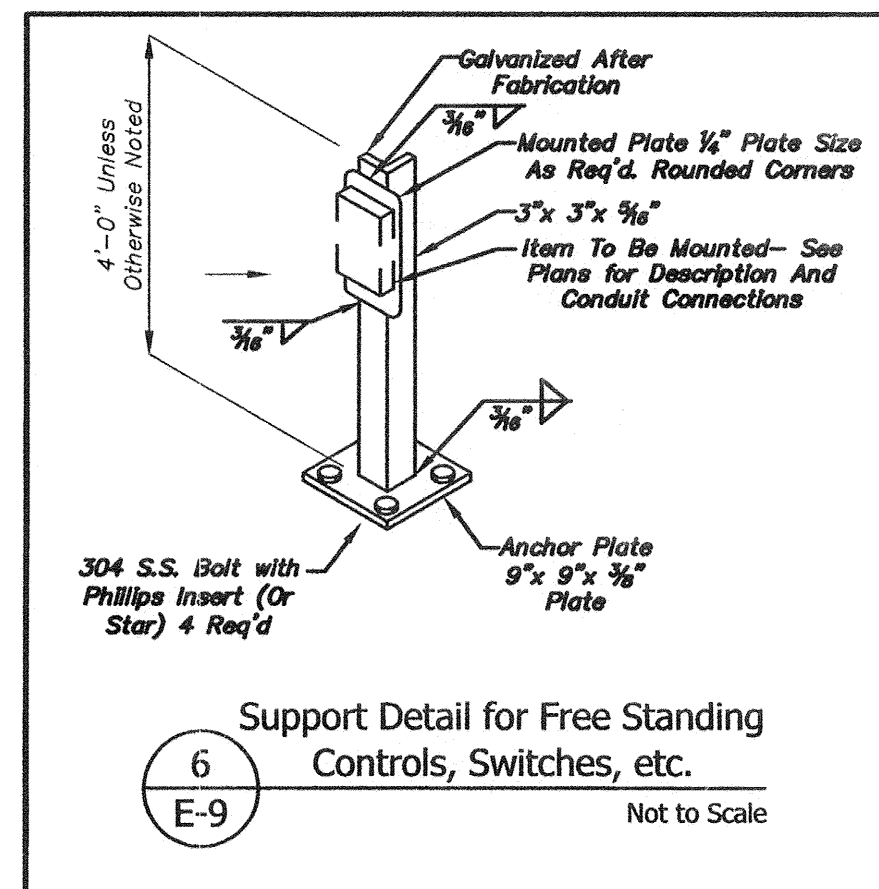
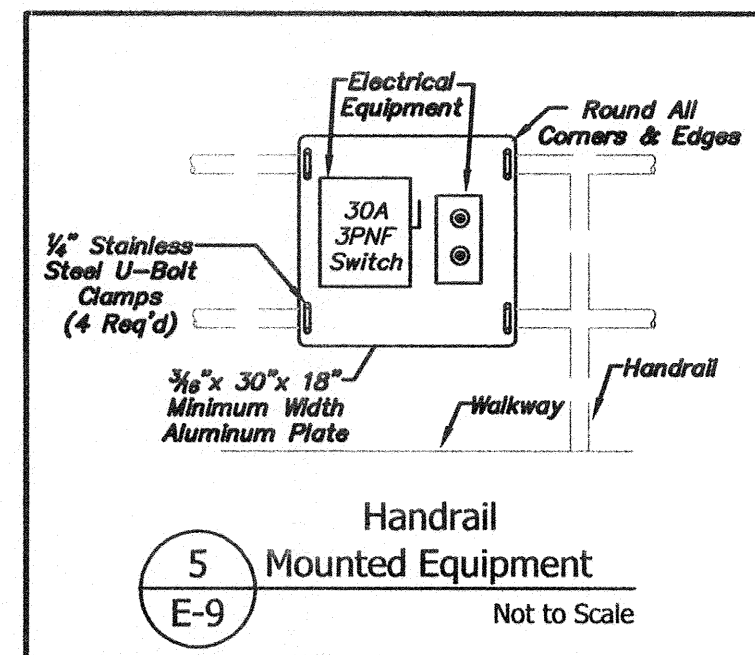
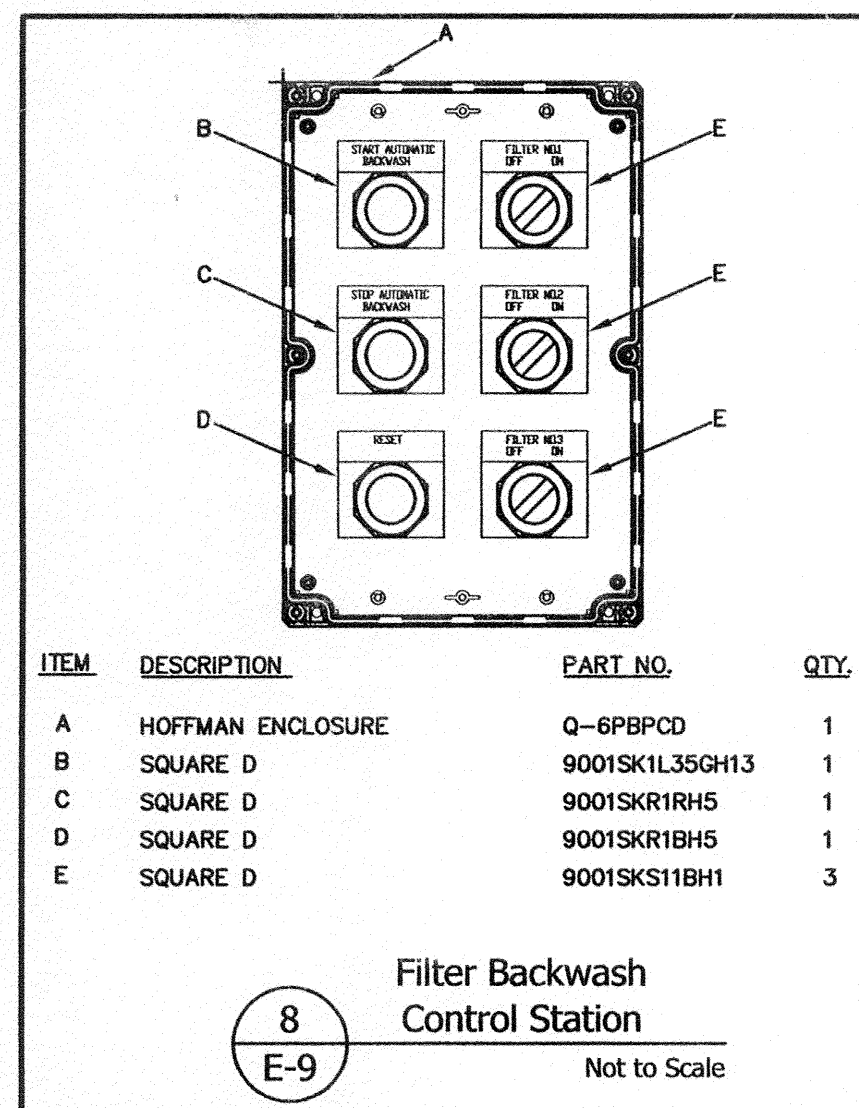
PANELBOARD "B-WTP 1" SCHEDULE																			
Voltage: 120/240v		Phase: 1#		3w		Mains: 100A		MLO		Mounting: SURFACE		Fault Duty: 24K(min)		Remarks: Provide Integral Square D Surgeprotc TSS with 180KA P&F Phases & 10 Modes of Protection					
Bus Size: 100 AMP		SquareD NOOD		Total Load:		Load (KW)		Breaker		Phase		Breaker		Load (KW)		Lta		Serves	
No. Serves		Lta	Recap	Mtr	A/c	Htg	Misc	Trips	P	A	B	C	P	Trips	Misc	Htg	A/c	Mtr	Recap
1 RTU								20	1					1	20				
3 Tank Level								20	1					1	20				
5 pH Analyzer (Raw Water)								20	1					1	20				
7 CL2 Analyzer								20	1					1	20				
9 Potassium Permanganate Scales								20	1					1	20				
11 CL2 Leak Detector								20	1					1	20				
13 Heat Trace/Tank								20	1					1	20				
15 Spare								20	1					1	20				
17 Spare								20	1					1	20				
19 Spare								20	1					1	20				
																		Heater	

PANELBOARD "C- WTP 1" SCHEDULE																			
Voltage: 120/208v		Phase: 3#		4w		Mains: 100A		MLO		Mounting: SURFACE		Fault Duty: 24K(min)		Remarks:					
Bus Size: 100 AMP		SquareD NOOD		Total Load:		Load (KW)		Breaker		Phase		Breaker		Load (KW)		Lta		Serves	
No. Serves		Lta	Recap	Mtr	A/c	Htg	Misc	Trips	P	A	B	C	P	Trips	Misc	Htg	A/c	Mtr	Recap
1 Valve Actuators Filter #3-A				3.6				20	3					3	20				
3																			
5																			
7 Valve Actuators Filter #3-B				3.6				20	3					3	20				
9																			
11																			
13 Valve Actuators Filter #3-C				3.6				20	3					3	20				
15																			
17																			
19 Valve Actuators Filter #3-D				3.6				20	3					3	20				
21																			
23																			
25 Valve Actuators Filter #3-E				3.6				20	3					3	20				
27																			
29																			
31 Valve Actuators Filter #2-A				3.6				20	3					3	20				
33																			
35																			
37 Valve Actuators Filter #2-B				3.6				20	3					3	20				
39																			
41																			

PANELBOARD "D- WTP 1" SCHEDULE																			
Voltage: 120/208v		Phase: 3#		4w		Mains: 225A		MGB		Mounting: SURFACE		Fault Duty: 24K(min)		Remarks:					
Bus Size: 225 AMP		SQUARE D I-LINE		Total Load:		Load (KW)		Breaker		Phase		Breaker		Load (KW)		Lta		Serves	
No. Serves		Lta	Recap	Mtr	A/c	Htg	Misc	Trips	P	A	B	C	P	Trips	Misc	Htg	A/c	Mtr	Recap
1 Office								6.3	100	2				3	20				
3																			
5														3	20				
7 Space & Bussing																			
9																			
11																			
13 Space & Bussing														3	20				
15																			
17																			
19 Space & Bussing														3	20				
21																			
23																			

PANELBOARD "B-WTP 2" SCHEDULE																			
Voltage: 120/240v		Phase: 1#		3w		Mains: 100A		MLO		Mounting: SURFACE		Fault Duty: 24K(min)		Remarks: Provide Integral Square D Surgeprotc TSS with 180KA P&F Phases & 10 Modes of Protection					
Bus Size: 100 AMP		SquareD NOOD		Total Load:		Load (KW)		Breaker		Phase		Breaker		Load (KW)		Lta		Serves	
No. Serves		Lta	Recap	Mtr	A/c	Htg	Misc	Trips	P	A	B	C	P	Trips	Misc	Htg	A/c	Mtr	Recap
1 RTU								20	1					1	20				
3 System Pressure								20	1					1	20				
5 pH Analyzer (Raw Water)								20	1					1	20				
7 Turbidimeter/pH Finish								20	1					1	20				
9 Potassium Permanganate Scales								20	1					1	20				
11 CL2 Leak Detector								20	1					1	20				
13 Spare								20	1					1	20				
15 Spare								20	1					1	20				
17 Spare								20	1					1	20				
19 Spare								20	1					1	20				

PANELBOARD "C- WTP 2" SCHEDULE																									
Voltage: 120/208v		Phase: 3#		4w		Mains: 100A		MLO		Mounting: SURFACE		Fault Duty: 24K(min)		Remarks:											
Bus Size: 100 AMP		Ground: NGND		Total Load:		Load (KW)		Breaker		Phase		Breaker		Load (KW)											
No.	Service	Lta	Resp	Mtr	A/C	Htg	Misc	Tri	P	A	B	C	P	Tri	Misc	Htg	A/C	Mtr	Resp	Lta	Service	W	No.		
1	Valve Actuators Filter #2-A			3.6				20	3					3	20			3.6				Valve Actuators Filter #2-C	2	3.6	
3																							4		
5																							6		
7	Valve Actuators Filter #3-B			3.6				20	3					3	20			3.6				Valve Actuators Filter #1-A	8	3.6	
9																							10		
11																							12		
13	Valve Actuators Filter #3-C			3.6				20	3					3	20			3.6				Valve Actuators Filter #1-B	14	3.6	
15																							16		
17																							18		
19	Valve Actuators Filter #3-D			3.6				20	3					3	20			3.6				Valve Actuators Filter #1-C	20	3.6	
21																							22		
23																							24		
25	Valve Actuators Filter #3-E			3.6				20	3					3	20			3.6				Valve Actuators Filter #1-D	26	3.6	
27																							28		
29																							30		
31	Valve Actuators Filter #2-A			3.6				20	3					3	20			3.6			Spare	32	3.6		
33																							34		
35																							36		
37	Valve Actuators Filter #2-B			3.6				20	3					3	20			3.6			Spare	38	3.6		
39																							40		
41																							42		



ITEM	DESCRIPTION	PART NO.	QTY.
A	HOFFMAN ENCLOSURE	Q-3BPBCD	1
B	SQUARE D	9001SKR1GH5	1
C	SQUARE D	9001SKR1RH5	1

Floculator
Control Station

Not to Scale

PRIOR TO CONSTRUCTION AND FOLLOWING INVESTIGATIONS AS REQUIRED IN THE SPECIFICATIONS, THE CONTRACTOR SHALL SUBMIT A COMPLETE ELECTRICAL PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. THE PLAN SHALL BE PREPARED AND STAMPED BY A PROFESSIONAL ELECTRICAL ENGINEER LICENSED IN THE STATE OF ALABAMA.

REVISIONS			
#	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			

ELECTRICAL DETAILS
DALLAS COUNTY DWSRF 2022
DALLAS COUNTY WATER & SEWER AUTHORITY
DALLAS COUNTY
ALABAMA

THE KELLEY GROUP
♦
A CIVIL ENGINEERING COMPANY.
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242
301 N. Dickson St.
Tusculum, AL 35674

ATTENTION:
THIS BAR = 1 INCH ON
ORIGINAL DRAWING.
ADJUST SCALE IF THIS
BAR $\neq$ 1 INCH.



PROJECT NO: 22-0020
DRAWN BY: TCW
CHECKED BY: BWT
SCALE: AS NOTED
DATE: 06/2026

SHEET NO.
E-8

