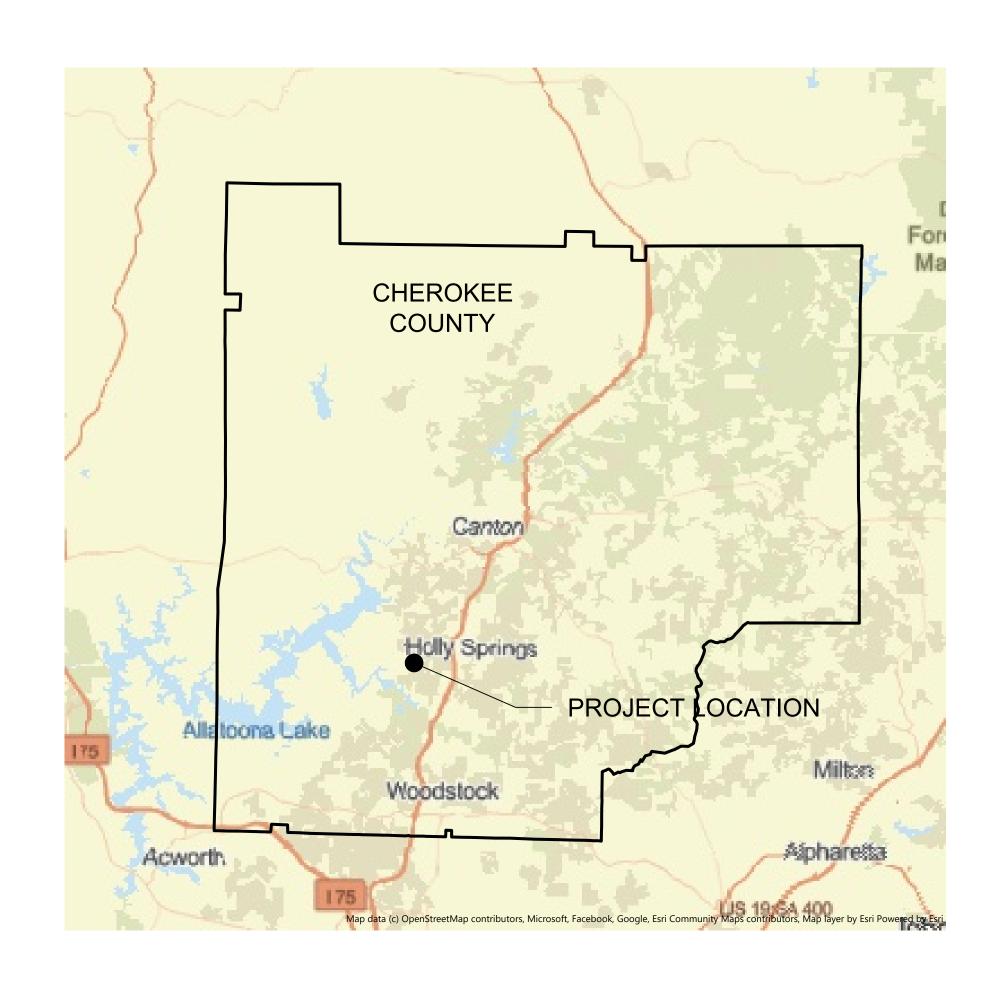
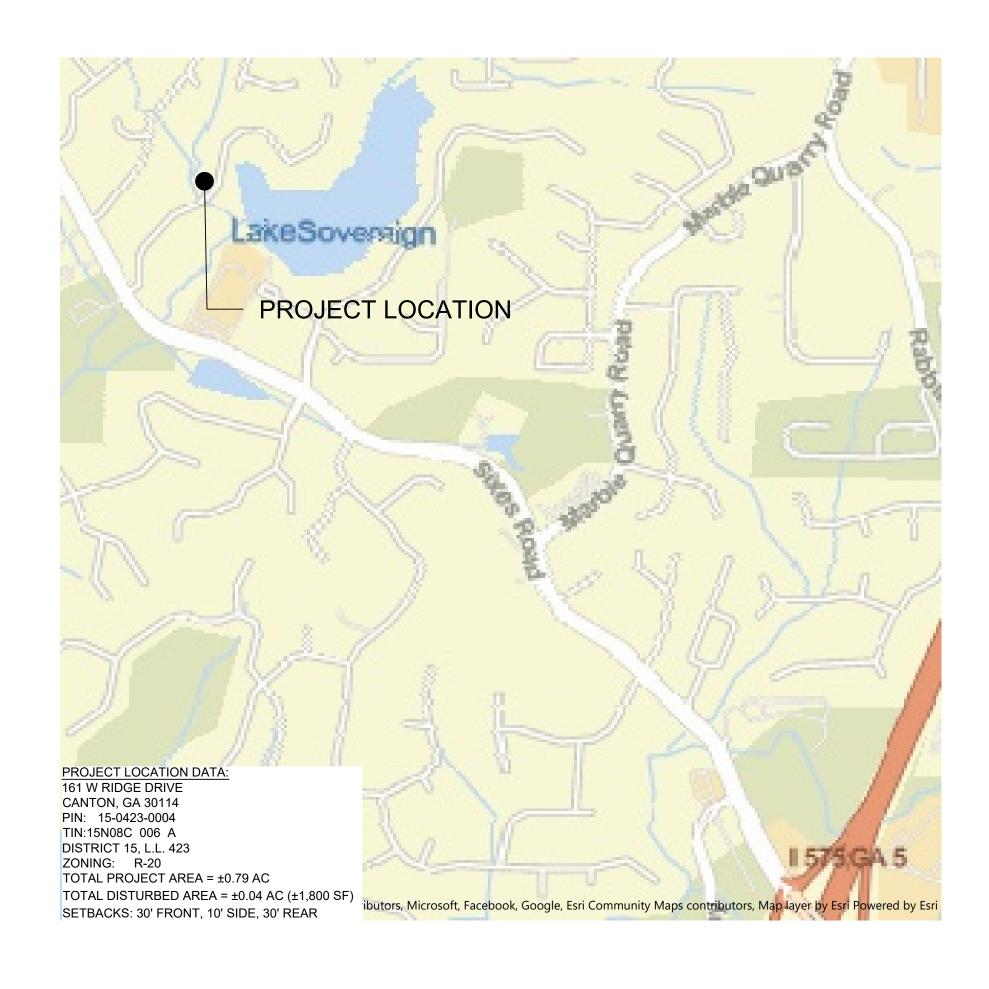
CONSTRUCTION PLANS FOR:

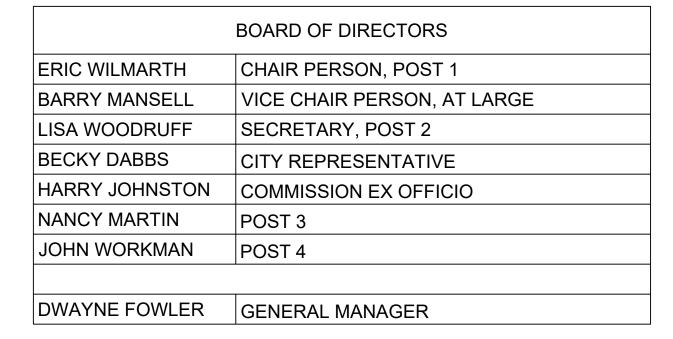
CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY





PROJECT: BLANKETS CREEK PS

ELECTRICAL UPGRADE



CONSULTING ENGINEER:

PROJECT No: 24-20081



Phone: (770) 429-0001 NOVEMBER 2025 24-HOUR CONTACT COREY GHORLEY (770) 479-1813

- 1. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE FEDERAL REGULATORY AGENCY FOR APPROVAL PRIOR TO UNDERTAKING ANY LAND DISTURBANCE WITHIN WETLANDS AREAS.
- 2. FINAL GRADING OF LOTS IS NOT TO ALTER NATURAL DRAINAGE PATTERN. FLOW SHALL ENTER AND EXIT SITE AS EXISTING CONDITIONS UNLESS
- WRITTEN APPROVAL IS OBTAINED FROM LOT OWNER AND ALL DOWNSTREAM AFFECTED PROPERTIES.
- ALL IRRIGATION METERS MUST HAVE RAIN SENSORS PER STATE LAW.
 CHANGES IN THE CONSTRUCTION PLANS OF STORM DRAINAGE FACILITIES CAUSED BY FIELD CONDITIONS SHALL BE MADE IN COMPLIANCE WITH
- SECTION 3.02-G OF THE CHEROKEE COUNTY DEVELOPMENT ORDINANCE.
 5. THIS PROJECT LIES WITHIN ZONE "A" AS SHOWN ON FEMA FIRM PANEL 13057C0241E, DATED JUNE 7, 2019. ZONE "A" REPRESENTS AREA WITHIN THE 100-YR FLOOD PLAIN BUT DOES NOT HAVE BASE FLOOD ELEVATIONS.
- 6. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES THAT MAY IMPACT ANY FEDERALLY-LISTED THREATENED OR ENDANGERED SPECIES OR PROTECTED BY THE ENDANGERED SPECIES ACT. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE US FISH AND WILDLIFE SERVICE FOR APPROVAL PRIOR TO UNDERTAKING ANY LAND DISTURBANCE ACTIVITY

GENERAL NOTES

- 1. THE BLANKETS CREEK PUMP STATION MUST REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY POWER, AS REQUIRED, TO ENSURE THAT PUMP STATION REMAINS IN SERVICE DURING THE REPLACEMENT OF THE ELECTRICAL EQUIPMENT. ALL COSTS FOR PROVIDING, FUELING, AND MAINTAINING A TEMPORARY GENERATOR SHALL BE INCLUDED IN THE LUMP SUM PRICE.
- 2. CONTRACTOR SHALL MAKE EVERY EFFORT TO PRESERVE PROPERTY CORNERS, BENCH MARKS, ORIGINAL AND DESIGN SURVEY MONUMENTS, WHICH EXIST ON THE PROJECT AT THE TIME OF CONTRACT AWARD. THE CONTRACTOR SHALL FURNISH PERSONNEL FULLY QUALIFIED AND CAPABLE OF STAKING CORNERS OF STRUCTURES AND CENTERLINES OF PIPELINES SHOWN ON THE PLANS. ANY PROPERTY CORNERS OR R/W MONUMENTS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 3. EXISTING UTILITIES SHOWN ON THESE DRAWINGS WERE TAKEN FROM BEST AVAILABLE INFORMATION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE HORIZONTAL OR VERTICAL ACCURACY OF SAID UTILITIES OR THE POSSIBILITY THAT UNDERGROUND UTILITIES OTHER THAN THE ONES SHOWN MAY EXISTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION AND SIZE OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR MUST CONTACT THE UTILITIES PROTECTION CENTER AT 811 AT LEAST 72 HOURS PRIOR TO BEGINNING EXCAVATION ON THE PROJECT.
- 4. TRAFFIC CONTROL SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. IN LOCATIONS WHERE THE ROAD IS NOT SPECIFIED TO BE CLOSED, AT LEAST ONE LANE OF TRAFFIC SHALL REMAIN OPEN IN ORDER TO ALLOW TRAFFIC TO MOVE THROUGH THE CONSTRUCTION SITE. ALL FLAG-MEN, WARNING SIGNS, BARRICADES, AND LIGHTS NECESSARY TO CONTROL THE TRAFFIC AND PROTECT THE PUBLIC SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE OWNER. TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
- 5. CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AND SCHOOL BUS SERVICE AT ALL TIMES DURING CONSTRUCTION.
- 6. ANY SIGNS REMOVED MUST BE REINSTALLED TO CHEROKEE COUNTY DOT STANDARDS.
- 7. ANY DEVIATIONS FROM THE PLANS MUST BE APPROVED IN WRITING PRIOR TO WORK BEGINNING.
- 8. PUMP STATION SHALL BE SECURED AT ALL TIMES WITH EITHER PERMANENT OR TEMPORARY FENCING. CONTRACTOR IS RESPONSIBLE FOR THE SECURITY AND SAFETY OF THE SITE THROUGHOUT CONSTRUCTION. MAINTAIN ACCESS TO SITE FOR CCWSA AT ALL TIMES.
- 9. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES ON THE PLANS.
- 10. DRAINAGE SYSTEMS SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR WILL NOT BE COMPENSATED FOR DRAINAGE STRUCTURES DAMAGED OR REMOVED AND REPLACED UNLESS SPECIFICALLY SHOWN TO BE PAID.

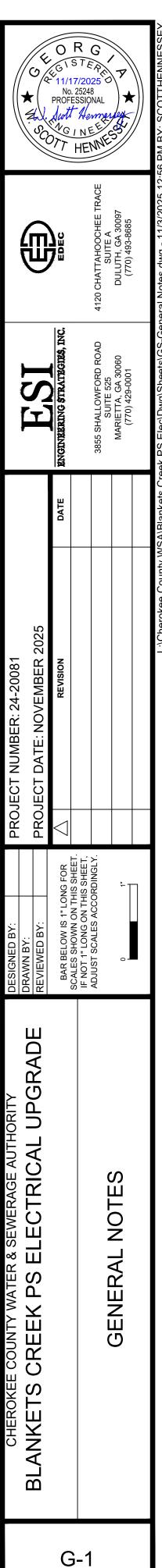
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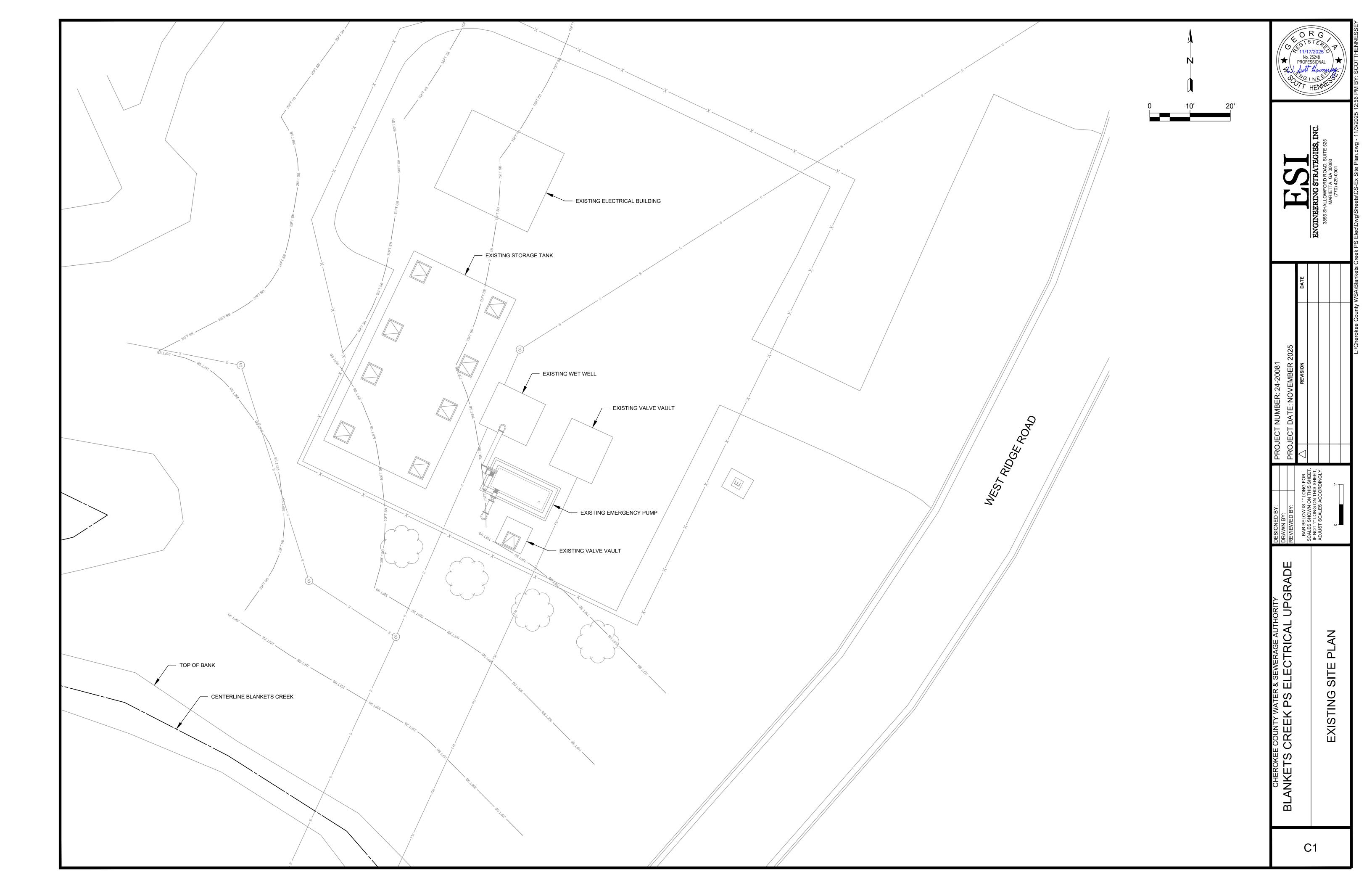
- 1. PROJECT NAME:
- BLANKETS CREEK PUMP STATION IMPROVEMENTS
- 2. PROJECT LOCATION: BLANKETS CREEK PUMP STATION: DISTRICT 15, LAND LOT 0423, PARCEL 0004
- 3. PROJECT ADDRESS: 161 W RIDGE DRIVE, CANTON, GA 30114
- 4. OWNER: CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY
 - 140 WEST MAIN STREET
 - CANTON, GA 30115 (770) 479-1813
 - (770) 479-1813 COREYGHORELY@CCWSA.COM
- 5. ENGINEER: ENGINEERING STRATEGIES, INC.
 - W. SCOTT HENNESSEY, P.E. 3855 SHALLOWFORD RD., SUITE 525
 - MARIETTA, GA 30062
 - (770) 429-0001 SHENNESSEY@ESI-GA.COM
- 6. ZONING: R20

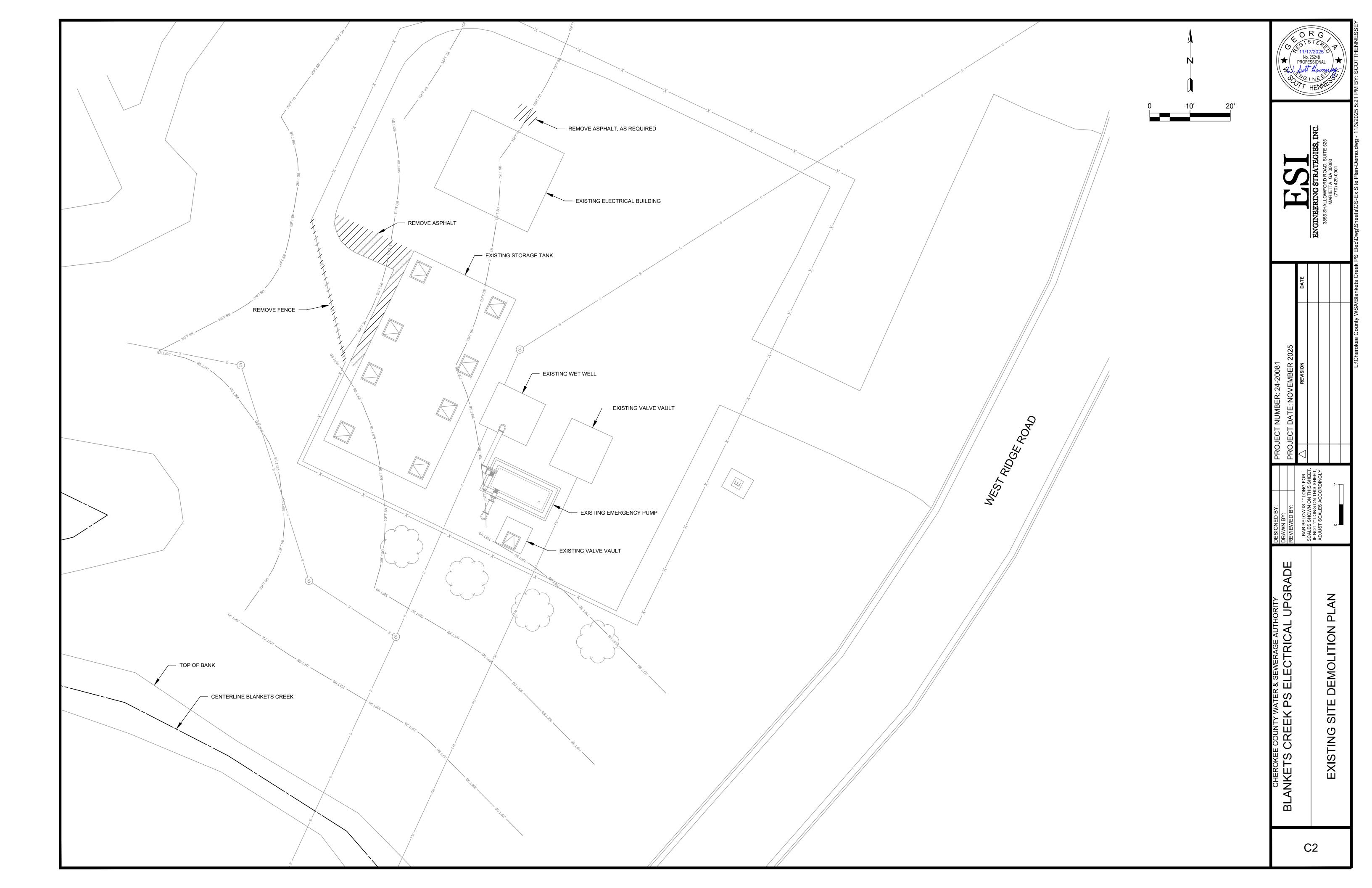
TREE PRESERVATION

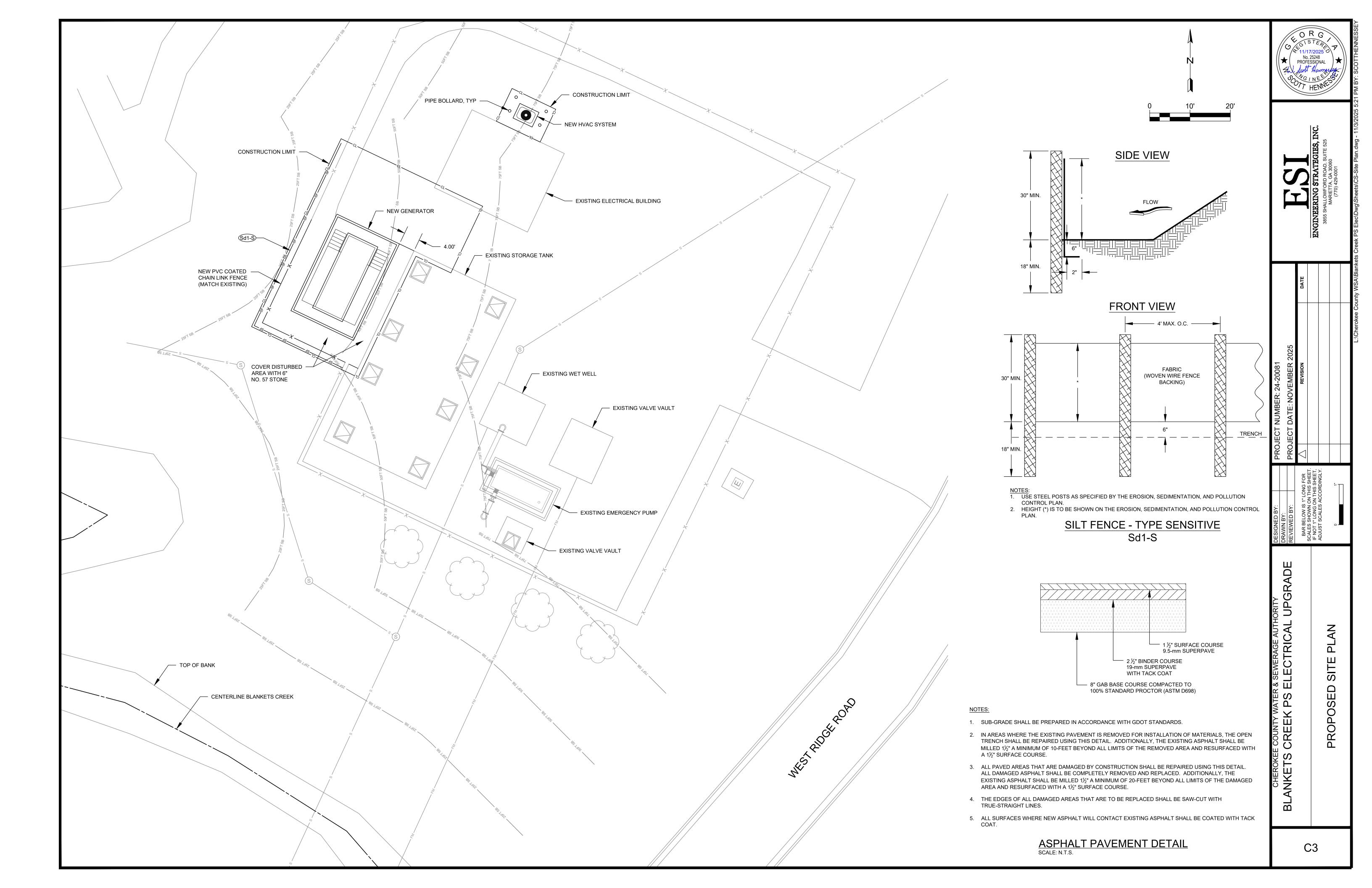
- 1. WHEN DIGGING NEAR TREES, CONTRACTOR SHALL PRUNE ALL EXPOSED ROOTS 1-INCH IN DIAMETER OR LARGER ON THE SIDE OF THE TRENCH ADJACENT TO THE TREES. PRUNING SHALL CONSIST OF MAKING A CLEAN CUT FLUSH WITH THE SIDE OF THE TRENCH TO PROMOTE NEW ROOT GROWTH.
- 2. CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION ON SITE EXCEPT AS NOTED ON THE PLANS OR APPROVED BY THE ENGINEER AND/OR CCWSA.
- 3. PROTECT THE TRUNKS OF ANY TREES BEING PRESERVED WITH STRAPPED ON PLANKING OR SIMILAR PROTECTIVE DEVICES.
- 4. TREE PROTECTION DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY CLEARING, GRUBBING, OR GRADING.
- 5. DO NOT PLACE FILL AGAINST TREE TRUNKS.
- 6. PRUNING OF TREE LIMBS TO PROVIDE CLEARANCE FOR EQUIPMENT AND MATERIALS SHALL BE DONE IN ACCORDANCE WITH STANDARD ARBORICULTURAL PRACTICE (ANSI A300).

	SHEET INDEX
DRAWING NUMBER	TITLE
	COVER
G-1	GENERAL NOTES
C1	EXISTING SITE PLAN
C2	EXISTING SITE DEMOLITION PLAN
C3	PROPOSED SITE PLAN
C4	EROSION CONTROL NOTES
M1	ELECTRICAL BUILDING DEMOLITION PLAN 1
M2	ELECTRICAL BUILDING DEMOLITION PLAN 2
S1	GENERAL NOTES AND GENERATOR CONTAINMENT SLAB PLAN AND SECTION
S2	ELECTRICAL BUILDING PROPOSED PLAN AND MISCELLANEOUS DETAILS
H-001	ELECTRICAL BUILDING HVAC PLAN
E-001	ELECTRICAL LEGEND AND NOTES
E-002	ELECTRICAL MATERIALS SCHEDULE
E-101	ONE LINE DIAGRAM (DEMOLITION)
E-151	ONE LINE DIAGRAM
E-201	PANELBOARD SCHEDULE
E-301	OVERALL ELECTRICAL SITE PLAN (DEMOLITION)
E-302	ELECTRICAL ROOM POWER PLAN (DEMOLITION)
E-351	OVERALL ELECTRICAL SITE PLAN
E-352	ELECTRICAL ROOM POWER PLAN
E-353	GENERATOR SET POWER PLAN
E-601	SCHEMATIC WIRING DIAGRAM
E-602	INTERCONNECTION WIRING DIAGRAM
E-901	ELECTRICAL INSTALLATION DETAILS









GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

		STRUC	TURAL PF	GEORGIA SOIL AND WATE			SSION	TURAL PF	RACTICES
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION	CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM		<i>J</i>	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.	Sr	TEMPORARY STREAM CROSSING		Sr	A temporary bridge or culvert-type structure protecting a stream or watero from damage by crossing construction equipment.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.	St	STORMDRAIN OUTLET PROTECTION		(LAB	A paved or short section of riprap channel at the outlet of a storm drain syspreventing erosion from the concentrated runoff.
Co	CONSTRUCTION EXIT		(LAB	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.	Su	SURFACE ROUGHENING		⊢(Su)	A rough soil surface with horizontal depressions on a contour or slopes lef roughened condition after grading.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr Cr	A travelway constructed as part of a construction plan including access roads,	Tc	TURBIDITY CURTAIN		Тс	A floating or staked barrier installed within the water (it may also be referred a floating boom, silt barrier, or silt curtain).
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.	Тр	TOPSOILING		(SHOW STRIPING AND	The practice of stripping off the more fertile soil, storing it, then spreading it the disturbed area after completion of construction activities.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.	Tr	TREE PROTECTION	\odot	STORAGE AREAS	To protect desirable trees from injury during construction activity.
Dn1)	TEMPORARY DOWNDRAIN STRUCTURE		(LAB	A flexible conduit of heavy-duty fabric or other material designed to safely conduc surface runoff down a slope. This is temporary and inexpensive.	Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL		CENTERS)	
Dn2	PERMANENT DOWNDRAIN STRUCTURE		(LAB	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.					
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.			V=0==		
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.	CODE	PRACTICE	VEGE I.	MAP SYMBOL	DESCRIPTION
Gr	GRADE STABILIZATION STRUCTURE		Gr (LAB	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.	Bf	BUFFER ZONE		Bf	Strip of undisturbed original vegetation, enhanced or restored existing veget or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Lv	LEVEL SPREADER	Ammin		A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.	Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	3 fifty f f f d f d f d d d	Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
	BOOK			A permanent or temporary stone filter dam installed across small streams or					Establishing temporary protection for disturbed areas where seedlings may

Rock filter baskets which are hand-placed into position forming soil stabilizing structures.	CODE
Decree to the state of the stat	
Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.	Df
1)	БІ
A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.	Cs
A permanent or temporary stone filter dam installed across small streams or drainageways.	De′
A wall installed to stabilize cut and fill slopes where maximum permissible slopes	
are not obtainable. Each situation will require special design.	De'
iL) A device or structure placed in front of a permanent stormwater detention pond	
outlet structure to serve as a temporary sediment filter.	Ds:
L) A barrier to prevent sediment from leaving the construction site. It may be	
sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.	Ds4
An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction	. '
activities.	Du
A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.	
;L)	FI-C
A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.	
	Sb
A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.	
aspo, s. Sasino di di commonica rato or now.	Ss
L) Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation	
chambers with the employment of intermediate dikes.	Tac

A basin created by excavation or a dam across a waterway. The sur runoff is temporarily stored allowing the Linux in the sur

CONSTRUCTION SCHEDULE

<u> </u>			· · · · ·		=							
ACTIVITY		MONTHS										
	1	2	3	4	5	6	7	8	9	10	11	12
INSTALLATION OF EROSION CONTROL												
MAINTENANCE OF EROSION CONTROL												
INSTALLATION OF GENERATOR AND ELECTRICAL MODIFICATIONS												
RESTORATION OF PUMP STATION SITE												
CLEAN-UP												

CONSTRUCTION ACTIVITIES ARE EXPECTED TO BEGIN IN OCTOBER, 2025

Rd)

(Sd3)

FILTER DAM

RETRO

BARRIER

SEDIMENT

SEDIMENT TRAP

SEEP BERM

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf (LABE	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	JEHENE FERRENCE A	Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
FI-Co	FLOCCULANTS AND COAGULANTS		FI-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Тас	TACKIFIERS AND BINDERS		Тас	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

STORM WATER AND EROSION CONTROL NOTES

- 1. THIS PROJECT LIES WITHIN ZONE "A" AS SHOWN ON FEMA FIRM PANEL 13057C0241E, DATED JUNE 7, 2019. ZONE "A" REPRESENTS AREA WITHIN THE 100-YR FLOOD PLAIN BUT DOES NOT HAVE BASE FLOOD
- 2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25- OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. A 50-FOOT UNDISTURBED BUFFER AND A 75-FOOT IMPERVIOUS SETBACK SHALL BE MAINTAINED ADJACENT TO ALL STREAMS.
- 3. ALL ON-SITE WETLANDS AND ALL STATE WATERS LOCATED WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN DELINEATED.
- 4. THERE IS NO STORM WATER MANAGEMENT BEING PROVIDED FOR THIS PROJECT.
- 5. SOURCE OF TOPOGRAPHY IS TAKEN FROM A GROUND RUN SURVEY PROVIDED BY HB&P SURVEYING, DATED AUGUST 2018.
- 6. CHEROKEE COUNTY ASSUMES NO RESPONSIBILITY FOR OVERFLOW OR EROSION OF NATURAL OR ARTIFICIAL DRAINS BEYOND THE EXTENT OF THE STREET RIGHT-OF-WAY, OR FOR THE EXTENSION OF CULVERTS BEYOND THE POINT SHOWN ON THE APPROVED AND RECORDED PLAN. CHEROKEE COUNTY DOES NOT ASSUME THE RESPONSIBILITY FOR THE MAINTENANCE OF PIPES IN DRAINAGE EASEMENTS BEYOND THE COUNTY RIGHT-OF-WAY.
- THE EXISTING AND PROPOSED LANDUSE FOR THE PROJECT SITE IS TO ACCOMODATE SANITARY SEWER GRAVITY AND FORCE MAIN IN WOODED LAND WITH PERMANENT UTILITY EASEMENT ADJACENT TO NORTHWEST RAILROAD RIGHT-OF-WAY.
- 8. EROSION AND SEDIMENT CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL DEVICES MAY BE REQUIRED AS NECESSARY.
- 9. TEMPORARY GRASSING OR MULCHING IS REQUIRED EVERY SEVEN (7) DAYS.
- 10. A TEMPORARY COVER OF HEAVY MULCH OR MULCH WITH TEMPORARY SEEDING SHALL BE PLACED ON ALL AREAS WHERE PERMANENT COVER CAN NOT BE ESTABLISHED IMMEDIATELY DUE TO SEASONAL
- 11. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL DEVICES IN GOOD WORKING CONDITION AND CLEANING OUT THE DEVICES BEFORE THEY ARE HALF-FULL OF SEDIMENT.
- 12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT UNDER NO CIRCUMSTANCES ANY SEDIMENT, TRASH, OR DEBRIS BE ALLOWED ONTO ADJACENT PROPERTIES, PUBLIC LANDS, OR OUTSIDE OF THE CONSTRUCTION LIMITS.
- 13. CONTRACTOR SHALL BUILD, MAINTAIN, AND USE A CONSTRUCTION EXIT AT ALL SITE ENTRY/EXIT LOCATIONS ADJACENT TO PAVED ROADS.
- 14. PRE AND POST CONSTRUCTION RUNOFF COEFFICIENT ESTIMATES ARE 0.30 FOR WOODED AREAS WITH LIGHT UNDERBRUSH. FINAL GRADING OF TRENCH BACKFILL WILL MATCH THE FLOW REGIME OF PRE-CONSTRUCTION CONDITIONS.
- 15. ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE USED ARE DETAILED ON THE EROSION CONTROL PLAN OR EROSION CONTROL DETAILS.
- 16. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL MEET THE MINIMUM REQUIREMENTS OF THE SPECIFICATIONS AND ALL LOCAL, STATE, AND FEDERAL LAWS AS APPLICABLE TO THIS PROJECT. ALL DEVICES SHALL BE PROPERLY INSTALLED AND BE OF SUITABLE MATERIALS. ANY DEVICES JUDGED TO BE INADEQUATE IN MATERIAL AND/OR CONSTRUCTION WILL IMMEDIATELY BE REPLACED WITH NEW OR ADDITIONAL DEVICES TO ENSURE PROPER CONTROL.
- 17. TEMPORARY SILT CONTROL FENCE, TYPE 'S' SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE LIFE OF THE PROJECT. THE CONTRACTOR SHALL INSPECT FENCE DAILY AND AFTER EVERY RAIN. ACCUMULATED SILT SHALL BE REMOVED AS SOON AS PRACTICAL, BUT NO LATER THAN WHEN FENCE IS HALF FULL. CONTRACTOR SHALL REMOVE THE SILT FENCE WHEN PERMANENT GRASSING HAS BEEN ESTABLISHED.
- 18. ALL EROSION CONTROL DEVICES, THAT ARE NOT DIRECTLY SPECIFIED AS TO INSTALLATION AND MATERIALS, SHALL MEET THE REQUIREMENTS OF THE GA. DEPT. OF TRANSPORTATION, SPECIFICATIONS FOR THE CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION, AND LATEST SUPPLEMENT IN EFFECT AT THE TIME OF BID OPENING OR THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, 2016 EDITION.
- 19. CONSTRUCTION EXITS (Co) SHALL BE REQUIRED AT ALL OTHER LOCATIONS USED FOR INGRESS/EGRESS FROM THE CONSTRUCTION AREA. CONSTRUCTION MATERIAL STORAGE AREAS WILL REQUIRE THE INSTALLATION OF A CONSTRUCTION EXIT TO REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE AREA. SILT FENCE SHALL ALSO BE INSTALLED TO PREVENT SEDIMENT FROM LEAVING THE MATERIAL STORAGE AREA. AFTER DEMOBILIZATION, THE MATERIAL STORAGE AREA SHALL BE SEEDED AND MULCHED, AND THE SILT FENCE SHALL REMAIN UNTIL THE AREA IS PERMANENTLY STABILIZED.
- 20. MAXIMUM SLOPE FOR CUT OR FILL IS 2H:1V EXCEPT EARTHEN DAM EMBANKMENTS SHALL BE 3H:1V.
- 21. THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLANDS INVENTORY MAPS HAVE BEEN CONSULTED; AND 2) THE APPROPRIATE PLAN SHEET DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION PERMIT HAS BEEN OBTAINED.
- 22. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- 23. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 24. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE $\frac{1}{3}$ FULL VOLUME.
- 25. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY
- 26. WASTE MATERIALS SHALL NOT BE DISCHARGED IN WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A
- 27. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- 28. ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE TOE OF THE SLOPE.
- 29. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING BLANKET.
- 30. THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.
- 31. UPON NOTIFICATION AND AUTHORIZATION OF THE OWNER, THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS RESPONSIBLE FOR INSPECTING THE INSTALLATION OF THE BMP'S WITHIN 7 DAYS AFTER INITIAL CONSTRUCTION ACTIVITIES BEGIN.
- 32. TOTAL WETLAND AREA ON THE SITE IS 0.0 ACRES.
- 33. THE RECEIVING WATERS FOR THIS PROJECT IS BLANKETS CREEK. THIS PROJECT IS NOT LOCATED WITHIN 1 MILE UPSTREAM OF AN IMPAIRED STREAM SEGMENT.
- 34. THE ESTIMATE OF THE PRE-CONSTRUCTION RUNOFF COEFFICIENT IS C = 0.71. THE ESTIMATE OF THE POST CONSTRUCTION RUNOFF COEFFICIENT IS C = 0.71.

35. OWNER/DEVELOPER: CHEROKEE COUNTY WATER AND SEWERAGE AUTHORITY 140 W. MAIN STREET CANTON, GA 30114

36. 24-HOUR CONTACT: COREY GHORLEY (770) 479-1813.

37. TOTAL PROJECT AREA: ±0.79 ACRES TOTAL DISTURBED AREA: ±0.04 ACRES (±1,800 SF)

PROJECT LOCATION: N34°09'54" W84°32'07"

CHEROKEE COUNTY EROSION CONTROL NOTES

(770) 479-1813 - COREY GHORLEY

- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA
- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES THAT MAY IMPACT ANY ENDANGERED SPECIES. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY DISTURBANCE WHICH MAY THIS EFFECT.
- 3. BURY PITS ARE NOT PERMITTED TO BE USED ON THIS PROJECT.

TREE PRESERVATION/PROTECTION PLANTING NOTES

- 1. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO CLEARING.
- 2. UNDISTURBED BUFFERS SHALL BE PLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGETATED IN ACCORDANCE WITH ARTICLE 10 OF CHEROKEE COUNTY ZONING ORDINANCE. ALL REPLANTING MUST BE PRE APPROVED BY BOTH THE COUNTY ARBORIST AND THE PLANNING AND ZONING DEPARTMENT.
- 3. CONTACT THE COUNTY ARBORIST FOR A SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY OR FINAL PLAT.
- 4. ALL LIMITS OF CONSTRUCTION AS INDICATED ON THE DRAWINGS SHALL BE CLEARLY IDENTIFIED BY ORANGE SAFETY FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE EXCEPT THOSE OPERATIONS NEEDED TO INSTALL EROSION CONTROL FACILITIES. ENGINEER SHALL INSPECT SAFETY FENCING PRIOR TO LAND DISTURBANCE.
- 5. THE CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION ON THE SITE EXCEPT AS NOTED ON THE PLANS OR APPROVED BY CHEROKEE COUNTY ENGINEER OR INSPECTOR.
- 6. ORANGE SAFETY FENCING SHALL BE INSTALLED ALONG THE OUTER EDGE OF AND COMPLETELY SURROUNDING THE CRITICAL ROOT ZONES OF ALL SPECIMEN TREES OR STANDS OF TREES, OR OTHERWISE DESIGNATED TREE PROTECTION ZONES PRIOR TO ANY LAND DISTURBANCE. SPECIMEN TREES AND TREE PROTECTION ZONES SHALL BE FLAGGED BY CHEROKEE COUNTY PRIOR TO NOTICE TO
- 7. ALL TREE PROTECTION ZONES SHALL BE DESIGNATED WITH "TREE SAVE AREA" SIGNS.
- WHEN DIGGING NEAR TREES, THE CONTRACTOR SHALL PRUNE ALL EXPOSED ROOTS ONE (1) INCH IN DIAMETER AND LARGER ON THE SIDE OF THE TRENCH ADJACENT TO THE TREES. PRUNING SHALL CONSIST OF MAKING A CLEAN CUT FLUSH WITH THE SIDE OF THE TRENCH TO PROMOTE NEW ROOT
- 9. PRUNING OF TREE LIMBS TO PROVIDE CLEARANCE FOR EQUIPMENT AND MATERIALS SHALL BE DONE ACCORDING TO STANDARD ARBORICULTURAL PRACTICES.
- 10. ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

EROSION CONTROL PROJECT NARRATIVE

WHERE EQUIPMENT EXITS THE SITE.

THE PROPOSED PROJECT CONSISTS OF THE INSTALLATION OF AN EMERGENCY STORAGE TANK AND DIESEL DRIVEN EMERGENCY PUMP AT THE BLANKETS CREEK PUMP STATION IN CHEROKEE COUNTY, GEORGIA, THE TOTAL PROJECT AREA IS 0.79 ACRES AND THE DISTURBED AREA IS 0.45± ACRES.

1. SILT FENCE (Sd1) SHALL BE INSTALLED AT APPROPRIATE LOCATIONS TO PREVENT SEDIMENT FROM BEING WASHED OFF OF THE SITE.

FIVE (5) TYPES OF EROSION CONTROL MEASURES WILL BE UTILIZED IN THE CONSTRUCTION OF THE PROJECT.

- 2. MULCHING, TEMPORARY AND PERMANENT GRASSING (Ds1, Ds2 & Ds3) SHALL BE USED TO RE-ESTABLISH
- VEGETATION ON THE DISTURBED AREAS AS CONSTRUCTION PROCEEDS. 3. HAYBALE CHECKDAMS (Cd) SHALL BE PLACED IN THE DITCHES AND CHANNELS SHOWN TO PREVENT
- SEDIMENT FROM BEING WASHED OFF OF THE SITE. 4. CONSTRUCTION EXITS (Co) WILL BE INSTALLED TO PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE
- 5. ALL DISTURBED AREAS WILL BE STABILIZED WITH EITHER TEMPORARY OR PERMANENT MEASURES WITHIN
- 48 HOURS OR PRIOR TO ANY EXPECTED RAINFALL EVENT.

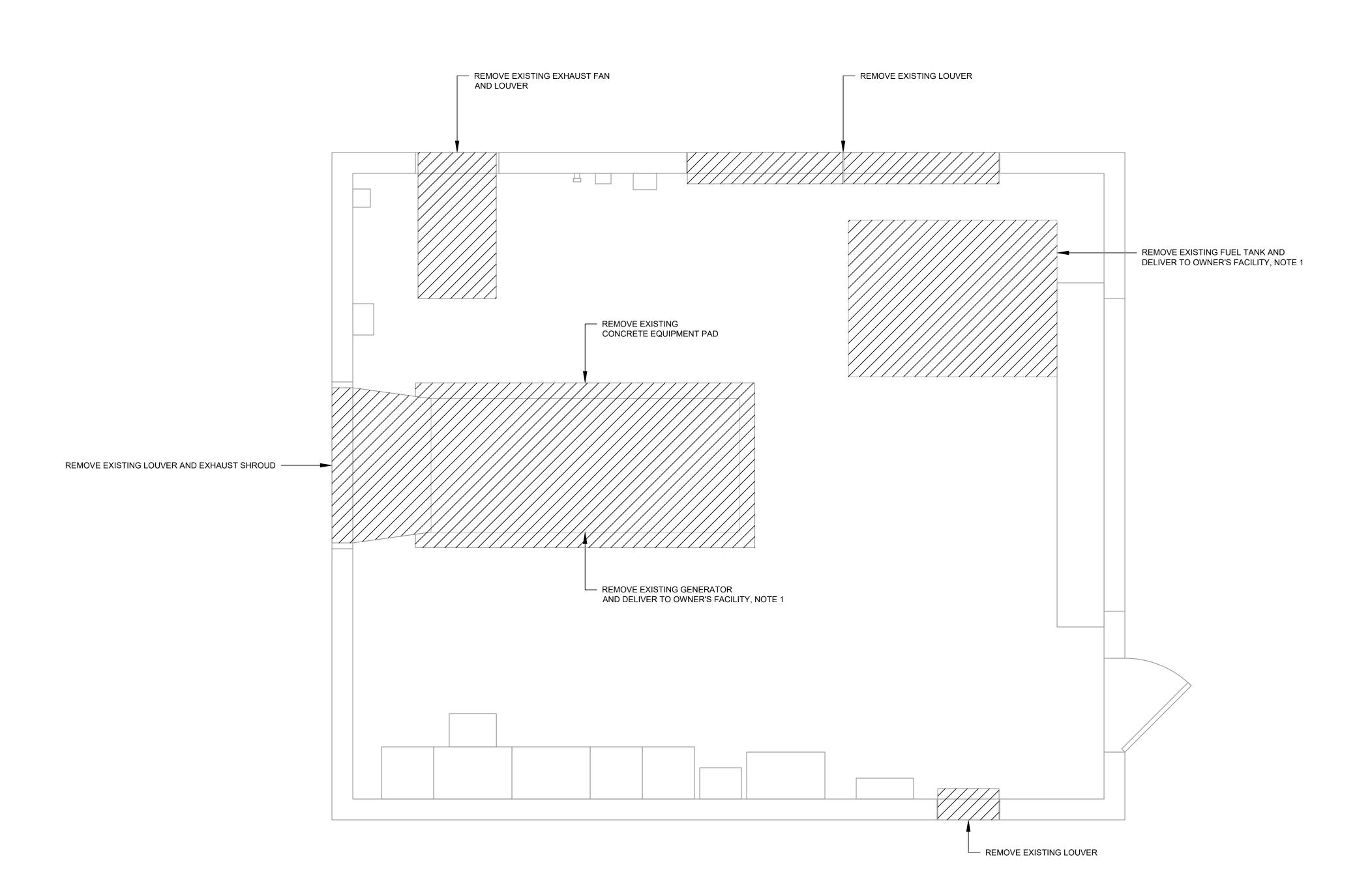
THE CONTRACTOR SHALL ESTABLISH A STRONG STAND OF GRASS BEFORE BEING RELEASED FROM HIS CONTRACTUAL OBLIGATIONS AND SHALL BE HELD RESPONSIBLE, FOR A PERIOD OF TWELVE MONTHS AFTER ACCEPTANCE OF THE PROJECT, TO REPAIR ANY WASHOUT AREAS, ETC.

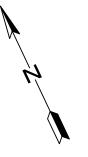


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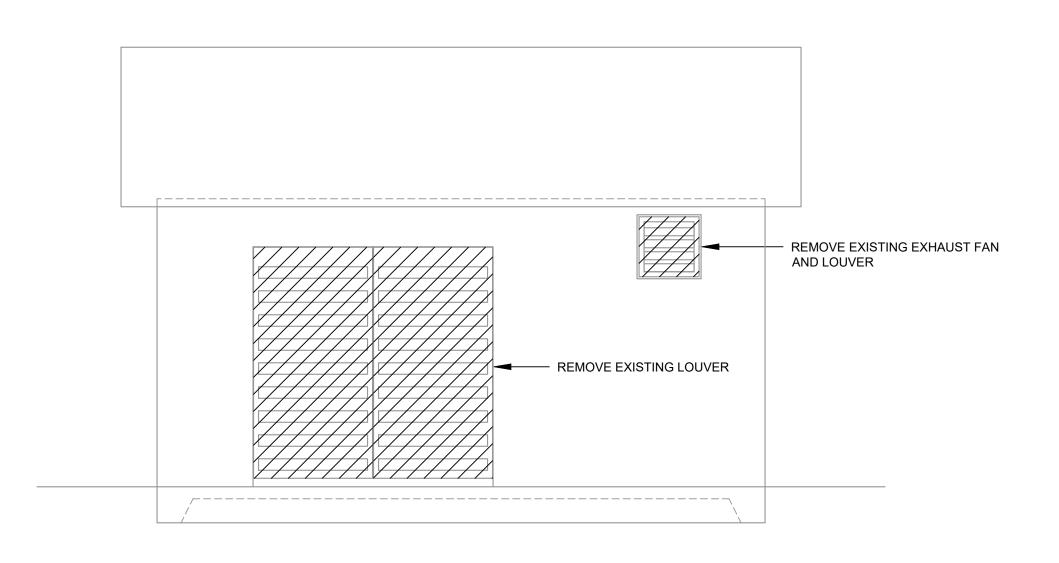
SCALE: ½" = 1'-0"

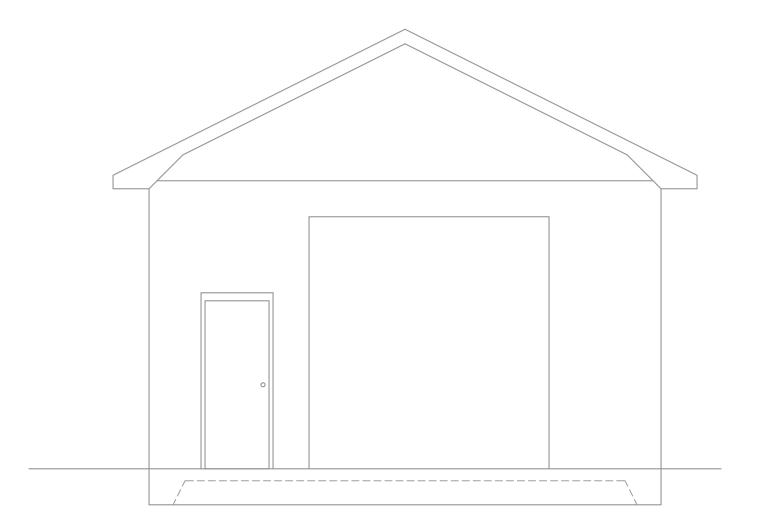
NOTES:

- 1. REMOVE EXISTING GENERATOR AND EXISTING FUEL TANK AND DELIVER TO OWNER'S STORAGE FACILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR LOADING, TRANSPORTING, UNLOADING, AND STORING THE EQUIPMENT AND THE OWNER'S FACILITY. IN ADDITION TO REMOVING THE GENERATOR AND FUEL TANK, CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL PIPING, ELECTRICAL COMPONENTS, HARDWARE, AND APPURTENANCES ASSOCIATED WITH THE EQUIPMENT. ALL PENETRATIONS, PIPE OPENINGS, ETC. LEFT BY THE REMOVAL OF THE APPURTENANCES SHALL BE REPAIRED (PLUGGED, PATCHED, ETC.) AND PAINTED.
- 2. ALL EXPOSED REINFORCING BARS OR ANCHORS REMAINING AFTER REMOVAL OF MATERIALS SHALL BE CUT AND GRINDED BACK TO A DEPTH OF ½" BELOW THE EXISTING CONCRETE SURFACE. GROUND BACK AREA SHALL BE COATED WITH A HEAVY COAT OF SIKA ARMATEC 110 EPOCEM BONDING AGENT AND FILLED WITH SIKA 123 PLUS REPAIR MORTAR.

ENGINEERING STRATEGIES, INC
3855 SHALLOWFORD ROAD, SUITE 525

	KEVIEWED BY:	LINOSEO DATE. NOVEMBER 2023
	BAR BELOW IS 1" LONG FOR	REVISION
	SCALES SHOWN ON THIS SHEET. IF NOT 1" LONG ON THIS SHEET,	
	ADJUST SCALES ACCORDINGLY.	
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		I \Cherokee County WSA\RI

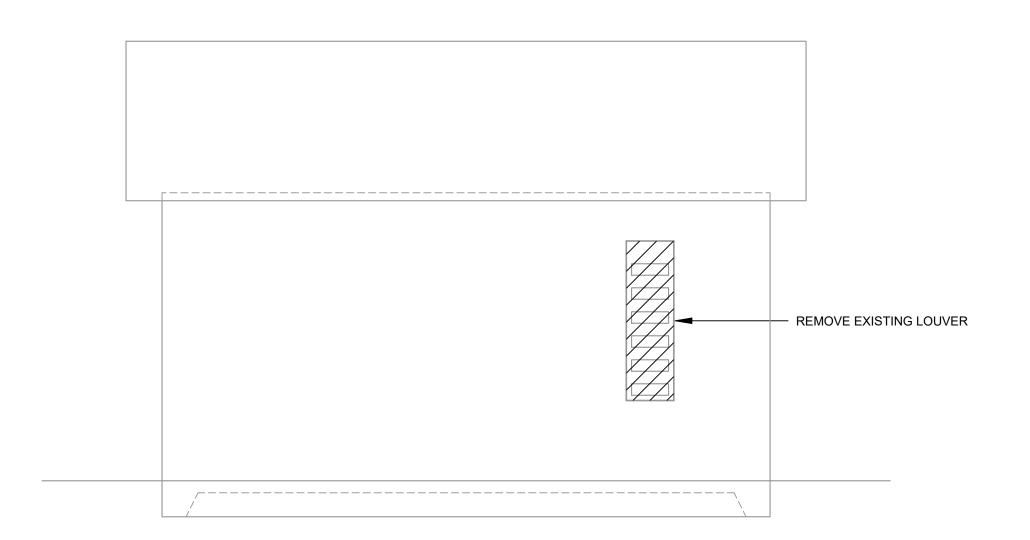


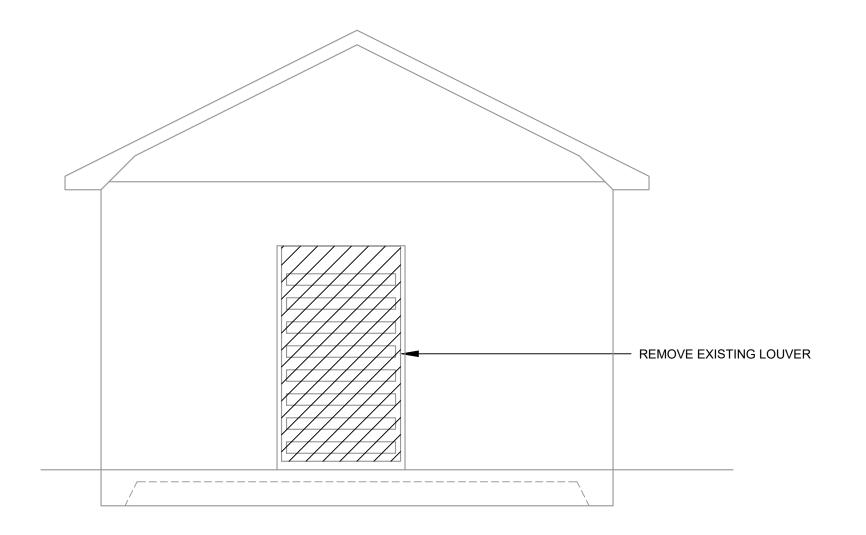


NORTH ELEVATION

1/4" = 1'-0"







SOUTH ELEVATION
1/4" = 1'-0"

WEST ELEVATION

1/4" = 1'-0"

ORG ORG STEP PROFESSIONAL Authority

OF INEE CONTINUES

ENGINEERING STRATEGIES, INC.
3855 SHALLOWFORD ROAD, SUITE 525
MARIETTA, GA 30060

	PROJECT DATE: NOVEMBER 2025	REVISION				
DRAWN BY:	REVIEWED BY:	BAR BELOW IS 1" LONG FOR	SCALES SHOWN ON THIS SHEET. IF NOT 1" LONG ON THIS SHEET,	ADJUST SCALES ACCORDINGLY.	0	
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RICAL BUILDING DEMOLITION PLAN

1/12

GENERAL STRUCTURAL NOTES

GENERAL CONDITIONS

- I. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE MECHANICAL, ELECTRICAL, AND SHOP DRAWINGS AND SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL REVIEW AND VERIFY DIMENSIONS SHOWN IN ALL PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT THE WORK DEPICTED ON THE DRAWINGS. SHOULD DISCREPANCIES APPEAR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING TO OBTAIN ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH THE WORK.
- 3. FOR ALL ITEMS EMBEDDED IN OR PASSING THROUGH CONCRETE, THE CONTRACTOR SHALL INITIALLY REFER TO MECHANICAL/PROCESS DRAWINGS FOR TYPE, SIZE, LOCATION, AND SPECIAL INSTALLATION REQUIREMENTS FOR THESE ITEMS.
- 4. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT EXISTING STRUCTURES FROM DAMAGE WHEN WORKING IN AND AROUND EXISTING STRUCTURES WHILE PERFORMING WORK SUCH AS DEMOLITION, FOUNDATION EXCAVATIONS, AND OTHERS.
- 5. SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS SHALL BE PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- 6. ANY EQUIPMENT THAT MAY INDUCE VIBRATION TO THE STRUCTURE SHALL BE ADEQUATELY ISOLATED FROM THE STRUCTURE.
- 7. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

DESIGN CRITERIA

BUILDING CODES AND REFERENCES:

- 1. 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS
- 2. REINFORCED CONCRETE:

WATER RETAINING ENVIRONMENTAL STRUCTURES: ACI 350-20 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES"

WIND DESIGN CRITERIA:

	RISK CATEGORY ULTIMATE DESIGN WIND SPEED, V_{ULT} NOMINAL DESIGN WIND SPEED, V_{ASD} EXPOSURE CATEGORY	III 113 MPH 88 MPH C
6.	SNOW LOAD:	
	BASIC GROUND SNOW LOAD	28 PSF
7.	SEISMIC DESIGN CRITERIA:	
	SITE CLASS	D
	SEISMIC IMPORTANCE FACTOR, le	1.25
	SHORT PERIOD MCE SPECTRAL	
	RESPONSE ACCELERATION, S _S	0.33
	1-SECOND PERIOD MCE SPECTRAL	
	RESPONSE ACCELERATIONS, S ₁	0.10
	SEISMIC DESIGN CATEGORY	С
	DESIGN SHORT PERIOD MCE SPECTRAL	
	RESPONSE ACCELERATION, S _{DS}	0.26
	DESIGN 1-SECOND PERIOD MCE SPECTRAL	
	RESPONSE ACCELERATION, S _{D1}	0.15

STAINLESS STEEL

- 1. STAINLESS STEEL MATERIALS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
- a. EXTERIOR AND SUBMERGED USE:

TYPE 316

TYPE 316L (WHERE WELDED)

- 2. ALL WELDING OF STRUCTURAL STAINLESS STEEL SHALL CONFORM TO "STRUCTURAL WELDING CODE - STAINLESS STEEL", AWS D1.6, LATEST EDITION. ELECTRODES SHALL BE E-318 316L STAINLESS STEEL.
- 3. STAINLESS STEEL PLATES, SHEETS AND WASHERS SHALL BE IN ACCORDANCE TO ASTM
- 4. STAINLESS STEEL W SHAPES, CHANNELS AND ANGLES SHALL BE IN ACCORDANCE TO
- 5. ALL BUILT-UP ASSEMBLIES SHALL BE FUSED BY LASER IN ACCORDANCE WITH ASTM A1069 FOR NON TUBULAR SHAPES OR WELDED IN ACCORDANCE WITH ASTM A554 FOR TUBULAR
- 6. STAINLESS STEEL BOLTS AND THREADED RODS SHALL BE TYPE 316 IN ACCORDANCE TO ASTM F593 UNLESS NOTED OTHERWISE.
- 7. STAINLESS STEEL NUTS SHALL BE TYPE 316 IN ACCORDANCE TO ASTM F594 UNLESS NOTED OTHERWISE.

CONCRETE (CAST-IN-PLACE)

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318 REQUIREMENTS.
- ALL CONCRETE SHALL BE AIR-ENTRAINED WITH A MINIMUM OF 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS UNLESS OTHERWISE NOTED.
- 3. WATER REDUCING AGENT SHALL BE IN ACCORDANCE WITH ASTM C494.
- 4. ALL CONCRETE SURFACES EXPOSED TO AIR, UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS. SHALL BE TREATED WITH AN APPROPRIATE CURING METHOD AS SOON AS FINISHING IS COMPLETED OR FORMS ARE REMOVED.
- ALL EXPOSED CORNERS SHALL HAVE A MINIMUM CHAMFER OF 3/4" UNLESS OTHERWISE NOTED.
- 6. THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR THE LOCATIONS OF CONSTRUCTION JOINTS THAT ARE NOT SHOWN ON THE DRAWINGS.

REINFORCING STEEL

- REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60 REQUIREMENTS. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 REQUIREMENTS. ALL ACCESSORIES SHALL BE IN CONFORMANCE WITH ACI 315 REQUIREMENTS.
- 2. REINFORCING STEEL SHALL HAVE THE FOLLOWING CLEAR COVER UNLESS OTHERWISE NOTED:

a. CONCRETE CAST AGAINST EARTH

FORMED SURFACE IN CONTACT WITH SOIL, SEWAGE, WATER OR EXPOSED TO WEATHER

- LAP SPLICES SHALL BE AS SHOWN ON THE DRAWINGS. FOR LAP SPLICES NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN ENGINEERS APPROVAL.
- 4. THE CONTRACTOR SHALL PREPARE PLACING DRAWINGS AND SCHEDULES IN CONFORMANCE WITH ACI 315 REQUIREMENTS.

MASONRY

- 1. MASONRY DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, $f_M = 2,000$ PSI MINIMUM.
- 2. MATERIALS:
- a. BLOCK: CONFORM TO ASTM C90 LOAD BEARING, NORMAL WEIGHT TWO-CELL, 8"x8"x16", 12"x8"x16".
- MORTAR: CONFORM TO ASTM C270, TYPE S, MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 1800 PSI. UTILIZE TYPE II CEMENT AND TYPE S LIME, MASONRY CEMENT WILL NOT BE CONSIDERED.
- c. GROUT: CONFORM TO ASTM C476, COURSE GROUT, MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 2500 PSI.

3. CONSTRUCTION:

- a. THE GROUT FOR FILLED CELLS SHALL BE RODDED OR PUDDLED DURING PLACEMENT TO INSURE COMPLETE FILLING TO THE BLOCK CORE.
- PROVIDE CLEAN OUT AND INSPECTION BLOCK OUT IN CELLS CONTAINING REINFORCEMENT FOR GROUT LIFTS EXCEEDING 5'-4".

STRUCTURAL ABBREVIATIONS

&	AND	EMBED	EMBEDMENT	OD	OUTSIDE DIAMETER
@	AT	EQ	EQUAL	OPNG	OPENING
#	NUMBER	EW	EACH WAY	PSF	POUNDS PER SQUARE
ADDTL	ADDITIONAL	EXIST	EXISTING		FOOT
ALUM	ALUMINUM	EXP	EXPANSION	PSI	POUNDS PER SQUARE
ALT	ALTERNATE	FG	FINISHED GRADE		INCH
APROX	APPROXIMATE(LY)	FT	FOOT	R	RADIUS
BLD	BUILDING	GALV	GALVANIZED	REINF	REINFORCING
BM	BEAM	HORIZ	HORIZONTAL	SIM	SIMILAR
BOT	BOTTOM	HP	HIGH POINT	SJ	SAWCUT JOINT
CL	CENTER LINE	ID	INSIDE DIAMETER	SPECS	SPECIFICATIONS
CLR	CLEAR	JT	JOINT	SQ	SQUARE
CMU	CONCRETE MASONRY	LB(S)	POUND(S)	SS	STAINLESS STEEL
	UNIT	LONG	LONGITUDINAL	STD	STANDARD
COL	COLUMN	LP	LOW POINT	STL	STEEL
CONC	CONCRETE	MANUF	MANUFACTURER	T/	TOP OF
CONN	CONNECTION	MATL	MATERIAL	TB	TIE BEAM
CONST JT	CONSTRUCTION JOINT	「MAX	MAXIMUM	T&B	TOP AND BOTTOM
CONT	CONTINUOUS	MECH	MECHANICAL	THK	THICK
DIA	DIAMETER	MFR	MANUFACTURER	THRU	THROUGH
DWL	DOWEL(S)	MIN	MINIMUM	TOC	TOP OF CONCRETE
(E)	EXISTING	MISC	MISCELLANEOUS	TOS	TOP OF STEEL
EA	EACH	MO	MASONRY OPENING	TYP	TYPICAL
EF	EACH FACE	NO	NUMBER	UNO	UNLESS NOTED
EL	ELEVATION	NTS	NOT TO SCALE		OTHERWISE
ELEC	ELECTRICAL	OC	ON CENTER	VERT	VERTICAL
				WT	WEIGHT
					SYMBOLS

±26'-10" ±25'-6" - EQUIPMENT PAD, / E - SS TYPE 316 ANCHORS (MIN 3/4"Ø, 6" SEE DETAIL EMBED) PER EQUIPMENT S2 , MANUFACTURER, TYP PROVIDE 1" TYPE 316 SS WALL PIPE AND 1" TYPE 316 SS BALL VALVE FOR DRAIN SLOPE - LP AT FLOOR DRAIN SUMP: SUMP TO BE 1'-0" SQUARE AND 6" DEEP **EMERGENCY GENERATOR** SLOPE CONCRETE CURB, SEE NOTES: SECTION THIS SHEET, 1. THE CONTRACTOR SHALL COORDINATE ANY SLAB PENETRATION OR OPENINGS REQUIRED WITH THE EQUIPMENT MANUFACTURER DURING - HP +4" ABOVE LP

GENERATOR FOUNDATION

PLAN

3/8"=1'-0"

E \HOUSEKEEPING S2 PAD - LP BEYOND ANCHORS PER PLAN, TYP -S2 / - HOLD BOTTOM OF SLAB #5AT8" EW, - 12" (MIN) COMPACTED FLAT AND SLOPE TOP OF GRANULAR SUBGRADE T&B, TYP SLAB PER PLAN

HVAC FOUNDATION

PLAN

LEGEND STRUCTURAL LEGEND APPLIES TO "S" SHEETS ONLY

EARTH FILL

COMPACTED GRANULAR FILL

GRATING

UNDISTURBED EARTH

GROUT OR SAND (AS NOTED)

PRECAST CONCRETE

CONCRETE

EXISTING

CONCRETE

DEMOLITION

SYMBOLS APPLY TO "S" SHEETS ONLY COLUMN OR WALL LINE TAG **ELEVATION TAG** SECTION NO. **BUILDING SECTION** DETAIL INDICATOR INDICATOR DWG. NO. OF DWG. NO **SECTION VIEW** INDICATES DETAIL SECTION CUT (WHERE SHOWN)

- 6" THICK SLAB REINF W/#4AT6", EW PLACED ±5'-3" WITH 2" CONC COVER FROM TOP NOTES:

1. COORDINATE OVERALL DIMENSIONS WITH THE PROPOSED HVAC EQUIPMENT WITH THE MANUFACTURER IN ORDER TO ACCOMMODATE THE PROPOSED ANCHORAGE. MODIFY THE PAD SIZE AS NEEDED.

SHOP DRAWING REVIEW. PROVIDE ADDITIONAL REINFORCEMENT AT

COORDINATE OVERALL DIMENSIONS WITH THE PROPOSED GENERATOR

PENETRATIONS OR OPENINGS IN ACCORDANCE WITH THE PROJECT

MANUFACTURER IN ORDER TO ACCOMMODATE THE PROPOSED

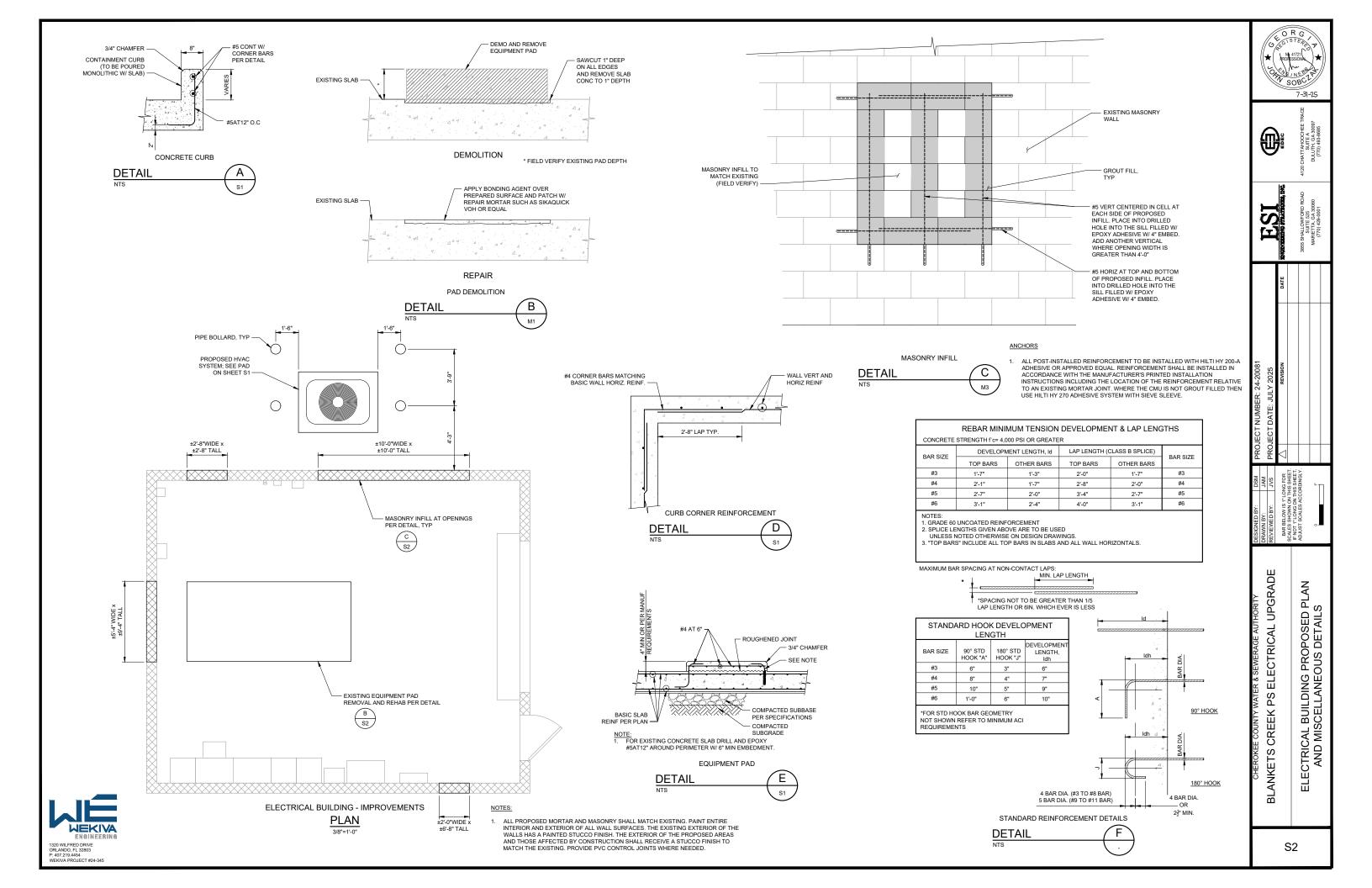
ANCHORAGE, ACCESS STAIRS AND PLATFORMS, ETC.

STANDARD DETAILS.

S1

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1320 WILFRED DRIVE ORLANDO, FL 32803 P: 407.219.4454 WEKIVA PROJECT #24-345



HVAC SYMBOLS AND ABBREVIATIONS							
M	SUPPLY AIR DUCT UP/DOWN	CHWR	CHILLED WATER RETURN				
	RETURN/EXHAUST AIR DUCT UP/DOWN	CHWS	CHILLED WATER SUPPLY				
	NEW DUCTWORK	CU-*	CONDENSING UNIT				
(FLEXIBLE DUCT	DIA.	DIAMETER				
П	VOLUME DAMPER	EF-*	EXHAUST FAN				
\boxtimes	SUPPLY DIFFUSER	ES	EQUAL SPLIT				
	RETURN OR EXHAUST GRILLE	FIL-*	FILTER				
1	THERMOSTAT	F-*	FURNACE				
	PRESSURE SENSOR	GA	GAUGE				
2	SMOKE DETECTER	OA	OUTSIDE AIR				
	FIRE DAMPER	OE	OPEN ENDED DUCT				
-	FIRE/SMOKE DAMPER	SD	SPLITTER DAMPER				
	PIPE TURNED DOWN	U/G	UNDERGROUND				
Ŷ	PIPE TURNED UP	UH-*	UNIT HEATER				
Ý	BRANCH PIPE OFF MAIN	VD	VOLUME DAMPER				
CFM	CUBIC FEET PER MINUTE	A/C-*	AIR CONDITIONING SYSTEM				
<u>M</u>	MOTOR OPERATOR	AFF	ABOVE FINISHED FLOOR				
		AHU-*	AIR HANDLING UNIT				

HEAT PUMP SCHEDULE							
HPOU TAG	BASIS OF DESIGN	CAPACITY	I.E.E.R	VOLTS - PH	REMARKS		
HPOU-1	TRANE TWA090K4DA	7.5 TON	14.1	460/3	DUAL CIRCUIT SYSTEM		

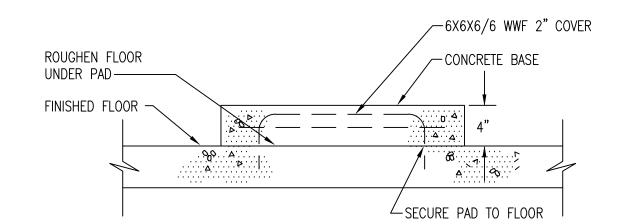
1.	DUAL CIRC	CUIT	SYSTEM	
2.	OR EQUAL	BY	CARRIER,	YOR

FAN COIL UNIT SCHEDULE									
HPIU TAG	BASIS OF DESIGN	CAPACITY	CFM	O.A.	E.S.P.	TYPE	VOLTS - PH	AUX. EL. HT.	REMARKS
HPIU-1	TRANE TWE090K4BA	7.5 TON	3,000	N/A	0.50"	HP	460/3	15 KW 460/3	1, 2, 3, 4, 5, 6

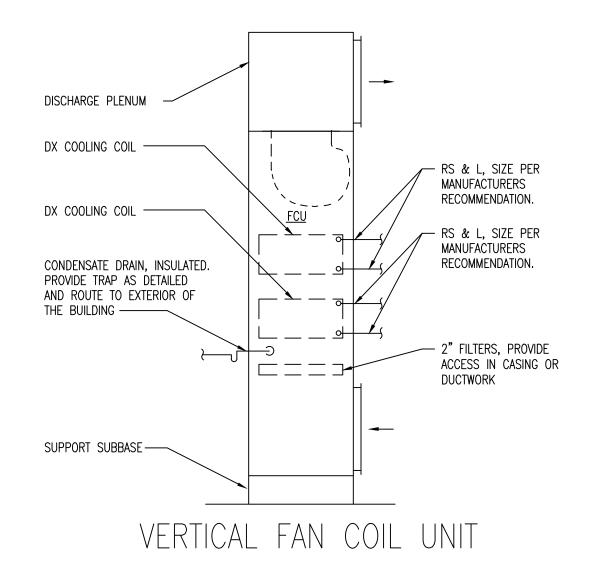
- 1. DUAL CIRCUIT SYSTEM RUBBER VIBRATION ISOLATORS
- DISCHARGE PLENUM AND GRILLE
- 4. SUBBASE 5. RETURN AIR GRILLE

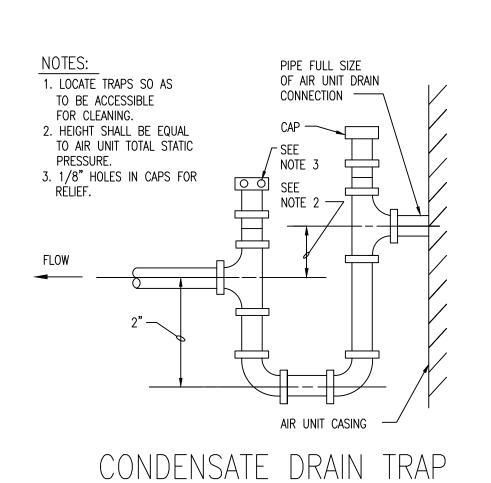
THE FOLLOWING EQUIPMENT:

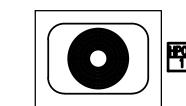
- 6. 2" MERV 13 FILTER 7. OR EQUAL BY CARRIER, YORK
- CONCRETE BASE SHALL BE 4" LARGER THAN THE ENTIRE BASE OF THE EQUIPMENT BEING SUPPORTED. 4" HIGH BASE SHALL BE PROVIDED FOR

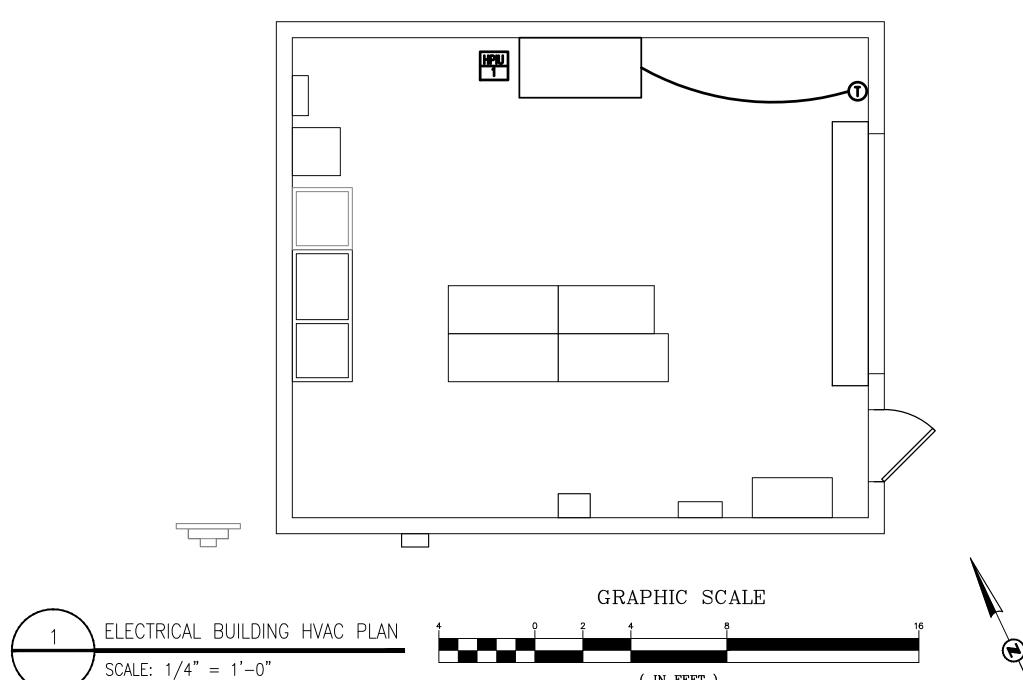


4" HIGH CONCRETE BASE





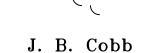




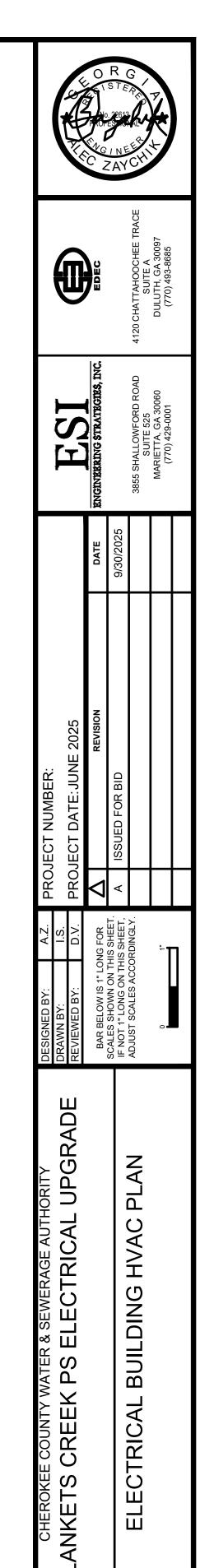
(IN FEET)

1/4 inch = 1 ft.

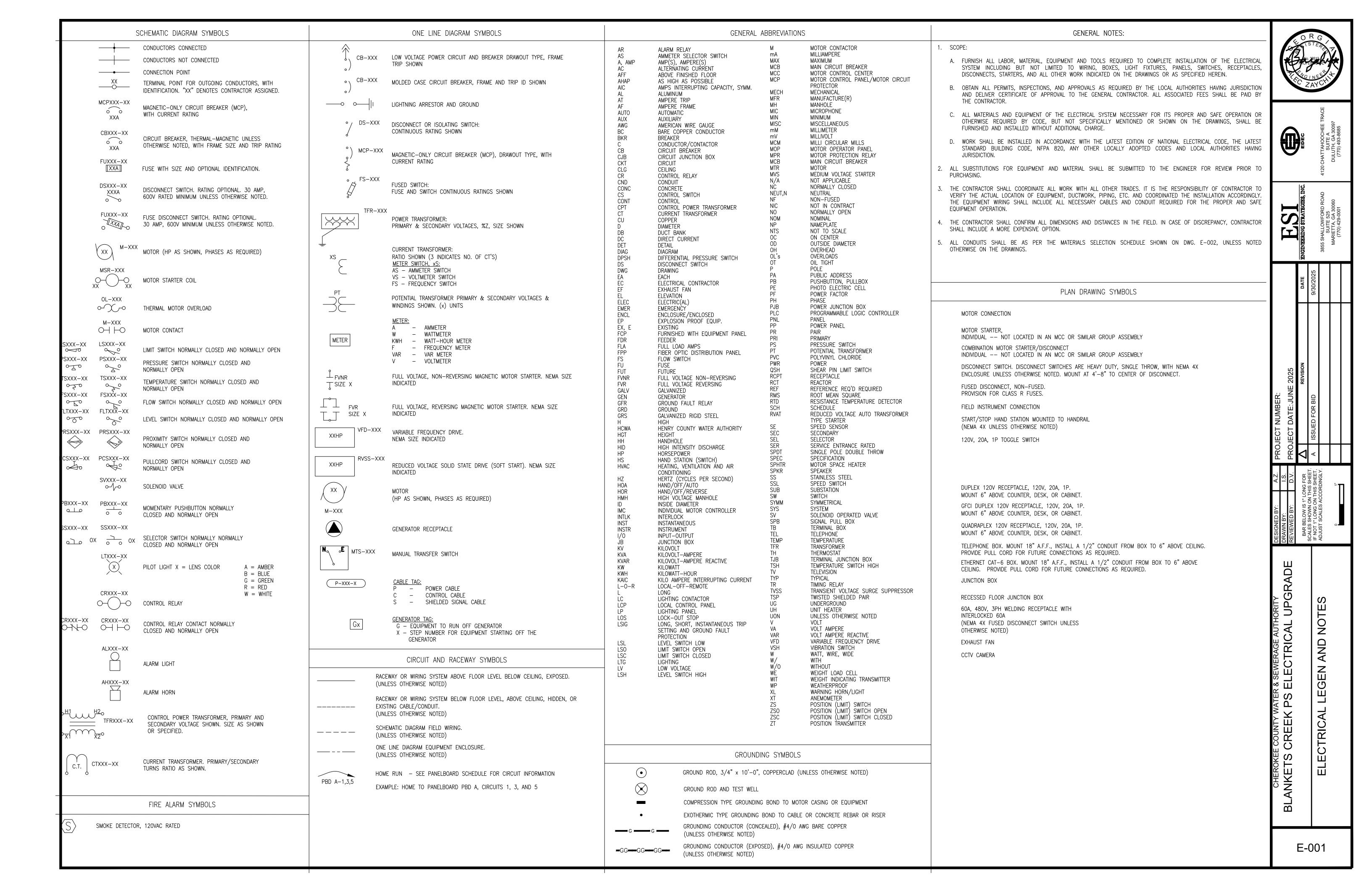
- 1. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CONFLICTS OF WORK PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK. CONTRACTOR SHALL NOT FABRICATE WORK WITHOUT COORDINATING WITH OTHER DISCIPLINES AND VERIFYING CLEARANCE FOR THE WORK.
- 2. CONTRACTOR SHALL VISIT THE JOB SITE AND HAVE A GOOD WORKING KNOWLEDGE AND ACQUAINTANCE OF THE EXISTING JOB SITE AS WELL AS THE CONDITIONS OF THE JOB SITE.
- 3. DEVIATIONS FROM MATERIAL, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING WITH EQUIPMENT AND INSTALLATION
- 4. CONTRACTOR SHALL REVIEW STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS BEFORE FABRICATING OR INSTALLING DUCTWORK OR
- EQUIPMENT TO AVOID ANY CONFLICTS. REQUEST FOR PAYMENT FOR ADDITIONAL COST DUE TO SITE CONDITIONS WILL NOT BE ALLOWED.
- 6. ALL DUCT DIMENSIONS ARE INSIDE CLEAR. 7. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY EVERY APPLICABLE JURISDICTION FOR THE
- PERFORMANCE OF THE WORK. 8. ALL WORK SHALL MEET THE LOCAL AND STATE, HEATING AND AIR-CONDITIONING, AND ENERGY CODES.
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
- 10. SYSTEM SHALL BE AIR BALANCED. 11. PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT.
- 12. ALL REQUIRED LOW VOLTAGE (24 VOLTS AND BELOW) CONTROL AND INTERLOCK WIRING SHALL BE INCLUDED FOR A FULLY OPERATIONAL
- 13. RUN COPPER CONDENSATE DRAIN FROM UNIT TO A LOCATION OUTSIDE THE BUILDING THAT IS NOT IN A VEHICLE OR FOOT TRAFFIC AREA.
- 14. AIR-CONDITIONING UNITS SHALL HAVE FACTORY INSTALLED VIBRATION (INTERNAL) ISOLATORS.
- 15. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES AND CHECK CLEARANCÉS TO PREVENT ANY CONFLICTS.
- 16. MOUNT ALL THERMOSTATS AT 4'-6" AFF.(TOP)
- 17. PROVIDE SEVEN-DAY (5-1-1) DAY PROGRAMMABLE THERMOSTATS SINGLE STAGE HEAT-OFF-COOL-AUTO OR AS APPROVED BY ENGINEER. CONTRACTOR SHALL MAKE SURE THAT THESE THERMOSTAT ARE COMPATIBLE WITH THE HEAT PUMP PROVIDED.
- 18. ALL CONDENSING UNITS SHALL BE MOUNTED ON 4" HIGH CONCRETE PAD AND PROVIDE CLEARANCE AROUND AND THE UNITS AS RECOMMENDED BY THE MANUFACTURER.
- 19. MINIMUM SEER(@ SEASONAL RATING) \ EER (@ STANDARD RATING) FOR AIR-CONDITIONING UNITS SHALL BE 10.0 \ 9.5
- 20. MINIMUM COP @ 17 F DB AND 15 F WB FOR ELECTRIC HEAT PUMP SHALL BE 2.0 AND 6.8 HSPH(@ SEASONAL RATING AND SINGLE PHASE
- SPLIT SYSTEM). 6.6 HSPF(@ SEASONAL RATING AND SINGLE PHASE SINGLE PACKAGE SYSTEM). 21. AIR SHALL BE BALANCED BY A CERTIFIED INDEPENDENT BALANCING CONTRACTOR. CONTRACTOR SHALL PROVIDE SIX COPIES OF CERTIFIED
- BALANCING REPORT TO THE OWNER. 22. FRESH AIR INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10'-0" FROM ANY SANITARY SEWER VENT OUTLET OR FLUE OR ANY
- EXHAUST AIR OUTLET, UNLESS SUCH OUTLET IS NOT LESS THAN 24 INCH ABOVE THE FRESH AIR INLET AND SHALL COMPLY LOCAL AND STANDARD MECHANICAL CODE.
- 23. DRAWINGS INDICATE LOCATIONS OF FIXTURES, APPARATUS, DUCTWORK AND PIPING; AND WHILE THESE ARE TO BE FOLLOWED AS CLOSELY AS
- POSSIBLE, IF IT IS NECESSARY TO CHANGE THE LOCATION OF SAME TO ACCOMMODATE BUILDING CONDITIONS, MAKE CHANGES WITHOUT ADDITIONAL COST TO THE OWNER AND AS APPROVED BY THE ARCHITECT.
- 24. PROVIDE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION SERVICE OR MAINTENANCE WITHIN THE LIFE OF THE SYSTEM.
- 25. DO NOT RUN PIPING OR LOCATE EQUIPMENT (WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS WITHIN 42" IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36" HORIZONTALLY OF SAME SPACE. 26. ALL MATERIALS AND EQUIPMENT SHALL FIT THE SPACE AVAILABLE, WITH MANUFACTURER'S RECOMMENDED CLEARANCE FOR ACCESS.
- 27. SCHEDULED FAN STATIC PRESSURES ARE ESTIMATED. PROVIDE AND ADJUST DRIVES TO DELIVER SCHEDULED AIR QUANTITIES AGAINST ACTUAL
- SYSTEM RESISTANCE. CONTRACTOR SHALL MAKE CHANGES TO SHEAVES, BELTS, VALVES, AND DAMPERS OR PROVIDE ADDITIONAL DAMPERS REQUIRED TO PROVIDE AIR QUANTITIES SHOWN ON THE DRAWINGS.
- 28. PROVIDE LABELS FOR EACH EQUIPMENT. LABELS TO BE ENGRAVED LAMINATED BAKELITE NAMEPLATES WITH 1/4" HIGH WHITE CUT LETTERS; SECURE TO EQUIPMENT.
- 29. DIMENSIONS, CONNECTIONS, AND INSTALLATION DETAILS OF EQUIPMENT SUPPLIED BY SEVERAL ACCEPTABLE MANUFACTURERS MAY VARY.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE OF COMPLIANCE WITH REQUIREMENTS OF PLANS AND SPECIFICATION FOR ANY SUBSTITUTE
- 30. CONTRACTOR SHALL SUBMIT EQUIPMENT DATA FOR APPROVAL. 31. CONTRACTOR SHALL PROVIDE A ONE-YEAR WARRANTY ON EQUIPMENT AND INSTALLATION. WARRANTY SHALL BEGIN FROM THE DATE OF THE
- ENTIRE PROJECT'S COMPLETION. 32. THE USE OF BRAND NAME IS FOR THE SOLE PURPOSE OF DESCRIBING THE STANDARD OF QUALITY, PERFORMANCE AND CHARACTERISTICS
- DESIRED AND IS NOT INTENDED TO LIMIT OR RESTRICT COMPETITION. WHENEVER MATERIAL IS DESCRIBED BY USE OF A PRODUCT OR BRAND NAME, OR BY USING THE NAME OF A MANUFACTURER OR VENDOR, THE USE OF SAME IS FOR INFORMATION PURPOSES ONLY, AND THE TERM "OR EQUAL" IF NOT INSERTED, IS IMPLIED.



Mechan



H-001



	ELECTRICAL EQUIPMENT MATERIALS RATING								
			INSTALLATION AREA AND DESIGN CRI	TERIA					
NO.	EQUIPMENT	INDOOR NON-PROCESS; EXPOSED INSTALLATION (ELECTRICAL & CONTROL ROOMS, OFFICES, LAB, UNDER RAISED FLOORS, ETC.) ENVIRONMENT: NON-CORROSIVE; DRY	INDOOR NON-PROCESS, CONCEALED INSTALLATION (AREAS WITH RECESSED CEILING AND STUD WALLS) ENVIRONMENT: NON-CORROSIVE; DRY	OUTDOOR GENERAL AREAS ENVIRONMENT: CORROSIVE; WET	UNDERGROUND AND DIRECT BURIED ENVIRONMENT: CORROSIVE; WET				
1	RIGID CONDUITS	RMC – GALVANIZED STEEL	NO CONDUIT REQUIRED, USE METAL CLAD CABLE (MC)	RMC – GALVANIZED STEEL	DIRECT BURIED — PVC 40; CONCRETE ENCASED — PVC 40.				
2	FLEXIBLE CONDUITS	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC)	NO CONDUIT REQUIRED, USE METAL CLAD CABLE (MC)	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC)	N/A				
3	CABLE TRAYS	LADDER TYPE — GALVANIZED STEEL	N/A	LADDER TYPE – GALVANIZED STEEL	N/A				
4	JUNCTION BOXES	STEEL - NEMA 1	STEEL - NEMA 1	STEEL - NEMA 3R	POLYMER CONCRETE				
5	PULL BOXES	STEEL - NEMA 1	STEEL - NEMA 1	STEEL - NEMA 3R	POLYMER CONCRETE				
6	EQUIPMENT RACKS/SUPPORTS/HARDWARE	HOT-DIPPED GALVANIZED	HOT-DIPPED GALVANIZED	HOT-DIPPED GALVANIZED	STAINLESS STEEL 304				
7	FASTENERS	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL	STAINLESS STEEL 304				
8	SWITCHGEAR	NEMA 1	N/A	NEMA 3R	N/A				
9	SWITCHBOARD	NEMA 1	N/A	NEMA 3R	N/A				
10	MOTOR CONTROL CENTER	NEMA 1	N/A	NEMA 3R	N/A				
11	PANELBOARDS	NEMA 1	N/A	NEMA 3R	N/A				
12	DRY TYPE TRANSFORMERS	NEMA 2	N/A	NEMA 3R	N/A				
13	DISCONNECT SWITCHES	NEMA 1	N/A	NEMA 3R	N/A				
14	MOTOR STARTERS	NEMA 1	N/A	NEMA 3R	N/A				
15	CONTACTORS	NEMA 1	N/A	NEMA 3R	N/A				
16	CONTROL PANELS	NEMA 1	N/A	NEMA 3R	N/A				
17	MOTOR HOUSING MINIMUM PROTECTION RATING	ODP	ODP	TEFC	N/A				
18	INSTRUMENTATION MINIMUM PROTECTION RATING	NEMA 1	NEMA 1	NEMA 4	NEMA 6P				
19	VALVE ACTUATORS	N/A	N/A	NEMA 4	N/A				
20	WIRING DEVICE BOXES	GALVANIZED STEEL; NON-WEATHERPROOF	GALVANIZED STEEL; NON-WEATHERPROOF	CAST IRON HOT DIP GALVANIZED; WEATHERPROOF	N/A				
21	DEVICES COVER PLATES	STAINLESS STEEL; NON-WEATHERPROOF (WITH GASKET)	STAINLESS STEEL; NON-WEATHERPROOF (WITH GASKET)	DIE-CAST ALUMINUM; WEATHERPROOF (WITH GASKET)	N/A				
22	OUTLET BOX HOODS	N/A	N/A	ALUMINUM; WEATHERPROOF (WHILE—IN—USE COVER) (WITH GASKET)	N/A				

CABLE TYPES REQUIREMENTS									
	MATERIAL	SERVICE ENTRANCE	VFD MOTOR FEEDERS	POWER	CONTROL	SIGNAL			
CABLE TYPES	COPPER, UNLESS NOTED OTHERWISE	XHHW, 600V	SHIELDED VFD CABLES, 1000V	THWN-2, 600V	THWN-2, 600V	SHIELDED TWISTED TYPE, 600V			

- 1. POWER CABLES REQUIREMENTS:
- 1.1. MINIMUM ALLOWED WIRE GAUGE: #12 AWG.
- 1.2. MAXIMUM ALLOWED WIRE GAUGE: 600KCMIL.
- 1.3. MAXIMUM MULTICONDUCTOR CABLES SIZE: #1 AWG.
- 1.4. MAXIMUM SOLID CORE CABLES SIZE: #10 AWG.
- 2. CONTROL CABLES REQUIREMENTS:
- 2.1. CABLES CONSTRUCTION TYPE: SINGLE CONDUCTOR.
- 2.2. MINIMUM ALLOWED WIRE GAUGE: #14 AWG.
- 3. SIGNAL CABLES REQUIREMENTS:
- 3.1. CABLES CONSTRUCTION TYPE: MULTICONDUCTOR CONDUCTOR WITH OVERALL SHIELD AND DRAIN WIRE.
- 3.2. MINIMUM ALLOWED WIRE GAUGE: #16 AWG.
- 3.3. MAXIMUM NUMBER OF PAIRS/TRIADS IN MULTI-PAIR/TRID CABLE: 2.

INSTALLATION REQUIREMENTS:

<u>GENERAL:</u>

- 1. ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE UL LISTED.
- 2. ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED OUTDOORS SHALL BE UV RESISTANT.
- 3. ALL ELECTRICAL EQUIPMENT AND MATERIALS OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND MODEL LINE.
- 4. ALL FREESTANDING EQUIPMENT SHALL BE INSTALLED ON 4" HOUSEKEEPING PAD, ELEVATED ABOVE THE SURROUNDING SURFACE.
- 5. ALL ELECTRICAL, INSTRUMENTATION AND CONTROL SYSTEM COMPONENTS LOCATIONS SHALL BE ADJUSTED TO PROVIDE NEC REQUIRED WORKING CLEARANCES.
- 6. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE CONCRETE PADS EXTENDING 3'-0" IN 1. MAXIMUM DISTANCE BETWEEN DRIVEN GROUND RODS IS NOT TO EXCEED 50' UNLESS OTHERWISE NOTED. FRONT OF THE EQUIPMENT.
- 7. THE CONTRACTOR SHALL ADJUST CIRCUIT BREAKER SIZES, CABLES AND CONDUITS FOR ELECTRICAL EQUIPMENT AT NO ADDITIONAL COST BASED ON THE ACTUAL ACCEPTED SHOP DRAWINGS.
- 8. THE CONTRACTOR SHALL CONFIRM ELECTRICAL EQUIPMENT DIMENSIONS PRIOR TO RELEASING FOR FABRICATION LOCATED IN THE AREAS WITH LIMITED AVAILABLE SPACE TO ENSURE PROPER EQUIPMENT INSTALLATION PROVIDING NEC REQUIRED WORKING CLEARANCES.
- 9. FOR NEW CONSTRUCTION, INSTALLATION AND/OR DEMOLITION THAT INTERRUPTS ANY POWER, CONTROL OR SIGNAL WIRING TO EXISTING EQUIPMENT OR DEVICES THAT SHALL REMAIN IN OPERATION. CONTRACTOR SHALL INCLUDE ALL REQUIRED BREAKERS, CABLES/CONDUITS AND/OR ANY OTHER EQUIPMENT AS REQUIRED TO KEEP THE EXISTING SYSTEM FUNCTIONAL.
- 10. ALL MOTORS USED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED TYPE.
- 11. ALL OUTDOOR ENCLOSURES CABLES ENTRY POINTS SHALL BE IN THE BOTTOM OF THE ENCLOSURE. IN CASE OF INABILITY TO MAKE BOTTOM PENETRATION, SIDE CONNECTION WOULD BE ACCEPTABLE. ENCLOSURES TOP ENTRY ARE NOT ALLOWED.
- 12. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY HARDWARE FOR EQUIPMENT MOUNTING, INCLUDING, BUT NOT LIMITED TO, EQUIPMENT RACKS, SUPPORT CHANNELS, ANCHORS, FASTENERS, AND ANY OTHER REQUIRED COMPONENTS TO ENSURE A SECURE AND STABLE INSTALLATION.

POWER DISTRIBUTION AND CONDUITS INSTALLATION REQUIREMENTS:

- 1. ALL POWER DISTRIBUTION EQUIPMENT SHALL BE BY THE FOLLOWING MANUFACTURES: SCHNEIDER ELECTRIC OR ABB.
- 2. ALL MOTOR STARTERS, VFD'S, RVSS'S SHALL BE BY THE FOLLOWING MANUFACTURES: SCHNEIDER ELECTRIC OR ABB.
- 3. ALL CONDUITS ENDS SHALL BE FREE OF METAL SHAVINGS AND BE PROVIDED WITH FITTINGS WITH INSULATED BUSHING.
- 4. ALL EXPOSED CONDUITS SHALL BE MINIMUM OF 3/4". ALL BURIED CONDUIT SHALL BE MINIMUM OF 1".
- 6. ALL METAL CONDUITS SHALL BE PROTECTED WITH A BITUMINOUS COATING WHEN INSTALLED UNDERGROUND OR WHEN IN CONTACT WITH CONCRETE.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CABLES AND EQUIPMENT LUG SIZES. IN CASE THE CABLE IS OF A LARGER SIZE THAN THE EQUIPMENT LUG, CONTRACTOR SHALL PROVIDE THE REQUIRED CONNECTOR AT NO ADDITIONAL CHARGE TO OWNER.
- 8. THE CONTRACTOR SHALL PROVIDE PULL STRING AND PERMANENTLY ATTACHED IDENTIFICATION LABELS AT EACH CONDUIT END FOR ALL SPARE CONDUITS. EACH TAG SHALL INCLUDE CONDUIT NUMBER, SIZE AND DESTINATION POINT.
- 9. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED PULL BOXES AND/OR CONDULETS TO MEET NEC ARTICLE 314 FOR CABLE PULLS.
- 10. ALL CABLES INSTALLED IN CABLE TRAYS SHALL BE TC RATED.

5. ALL UNDERGROUND CONDUITS SHALL HAVE RIGID STEEL ELBOWS.

- 11. CONDUIT FITTING CONNECTION TYPES SHALL BE AS FOLLOWS:
- 11.1. FOR RMC AND IMC CONDUITS THREADED TYPE: 11.2. FOR EMT CONDUITS — COMPRESSION TYPE.
- 12. RIGID CONDUIT CONNECTIONS TO ENCLOSURES SHALL BE MADE WITH MYERS HUBS.
- 13. ALL OPEN CONDUIT ENDS (INSIDE THE EQUIPMENT ENCLOSURES) SHALL BE PROTECTED FROM ELEMENTS PENETRATION TO THE INSIDE THE CONDUIT WITH DUCT SEAL.
- 14. EQUIPMENT ENCLOSURES THAT ARE NOT SUITABLE FOR RIGID OR FLEXIBLE CONDUIT CONNECTION, THE CONTRACTOR SHALL PROVIDE A CORD GRIP AT THE CONDUIT END TO PROTECT FROM ELEMENTS PENETRATION TO THE INSIDE THE CONDUIT.
- 15. THE CONTRACTOR SHALL INSTALL EXPANSION COUPLINGS AS REQUIRED TO PREVENT CONDUIT DAMAGE DUE TO LONGITUDAL MOVEMENT AND/OR THERMAL EXPANSION.
- 16. THE CONTRACTOR SHALL INSTALL DEFLECTION COUPLINGS FOR CONDUITS RUNS THAT ARE SUBJECT TO ANGULAR AND PARALLEL MISALIGNMENT.
- 17. THE CONTRACTOR SHALL INSTALL DRAIN FITTING IN VERTICAL CONDUIT RUNS AT LOW POINTS IN CONDUIT SYSTEM TO PREVENT ACCUMULATION OF CONDENSATE ABOVE SEAL-OFF FITTINGS.
- 18. THE CONTRACTOR SHALL INSTALL DRAIN FITTINGS AT LOW POINTS OF CONDUIT RUN TO DRAIN ACCUMULATED CONDENSATE AND TO PROVIDE VENTILATION TO MINIMIZE CONDENSATION.
- SERVICE CABLE INSTALLATION THROUGH THE ROOF, USE SERVICE ENTRANCE MAST KITS.

19. FOR OVERHEAD SERVICES THE CONTRACTOR SHALL INSTALL WEATHERED FITTINGS AS REQUIRED, FOR

- 20. THE CONTRACTOR SHALL INSTALL GROUNDING BUSHING AS REQUIRED BY NEC, AS WELL AS FOR THE
- FOLLOWING CONDITIONS: 20.1. FOR METALLIC RACEWAYS CONTAINING SERVICE CONDUCTORS;
- 20.2. FOR METALLIC RACEWAYS TERMINATED AT NON-METALLIC ENCLOSURES;
- 20.3. FOR METALLIC RACEWAYS TERMINATED ON RING KNOKOUTS REMAINING AND THE CIRCUIT EXCEEDING 250V TO GROUND NOMINAL; 20.4. FOR METALLIC RACEWAYS NOT TERMINATED AT ENCLOSURE.

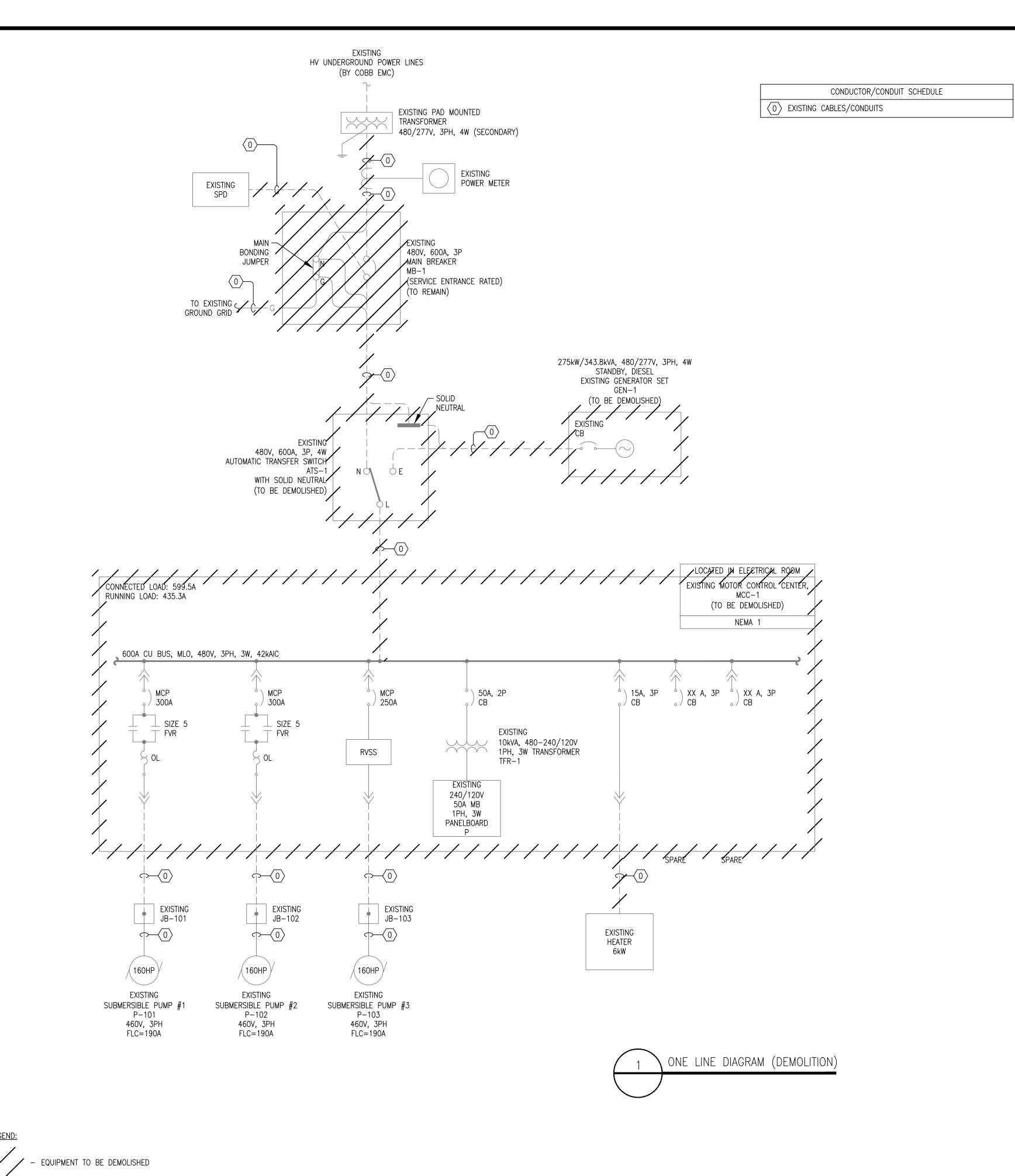
- **INSTRUMENTATION AND CONTROLS:**
- 1. ALL FIELD MOUNTED INDICATING TRANSMITTERS SHALL BE PROVIDED WITH SUN/RAIN HOOD.
- 2. ALL CONTROL CABINETS INSTALLED OUTDOORS HOUSING VFD's, SOFT STARTERS, OR PLC'S SHALL BE EQUIPPED WITH SUN PROTECTION COVERS TO PREVENT DIRECT SUNLIGHT EXPOSURE.
- 3. ALL OUTDOOR CONTROL CABINETS WITH HMI SCREENS OR OTHER TYPES OF DISPLAYS SHALL BE EQUIPPED WITH PROTECTIVE COVERS TO SHIELD THE DISPLAYS FROM SUNLIGHT EXPOSURE AND PREVENT DETERIORATION.
- 4. ALL INSTRUMENT SHALL BE PROVIDED WITH STAINLESS STEEL TAGS ATTACHED USING STAINLESS STEEL TAGGING WIRE.

- 2. ALL GROUNDING CONDUCTORS TO BE BARE, STRANDED, SOFT DRAWN, COPPER, SIZED AS INDICATED ON THE DESIGN DRAWINGS.
- 3. MAIN RING GROUND WIRE TO BE MAXIMUM 3'-0" OUTSIDE FOUNDATIONS AND 2'-6" BELOW FINISH
- 4. THE CONTRACTOR TO DETERMINE ACTUAL LOCATION OF ANY EQUIPMENT UTILIZING BONDS TO GROUNDING TAILS. CONTRACTOR TO LOCATE 1" PVC GROUNDING STUB-UPS IN ACCORDANCE WITH EQUIPMENT VENDOR INFORMATION OR DRAWING REQUIREMENTS.
- FOR COMPRESSION APPLICATIONS, APPLY A COAT OF "NO-OXIDE" COMPOUND ONTO COPPER CABLE AND COMPRESSION CONNECTORS PRIOR TO CRIMPING CONNECTION OR USE PRE-FILLED CONNECTORS.
- 6. ALL GROUND CABLES STUBBING UP THROUGH CONCRETE SHALL STUB UP THRU PVC CONDUIT, SIZED PER PLAN DRAWINGS. PVC CONDUIT SHALL EXTEND A MINIMUM OF 6" ABOVE AND 6" BELOW THE
- 7. PIGTAILS SHOULD BE INSTALLED THRU 1" PVC CONDUIT, 10'-0" LONG U.N.O.
- 8. EXOTHERMIC WELDS SHALL BE UTILIZED IN UNDERGROUND INSTALLATIONS ONLY. ALL SUCH WELDS SHALL BE INSPECTED BY THE SITE ENGINEER REPRESENTATIVE PRIOR TO COVER.
- 9. ALL ABOVE GROUND GROUNDING CONNECTIONS SHALL EMPLOY PROPERLY RATED COMPRESSION
- 10. THE MAIN GROUNDING RING CONDUCTOR SHALL BE RUN AS MECHANICALLY CONTINUOUS AS POSSIBLE WITH A MINIMUM OF CUTS AND SPLICES.





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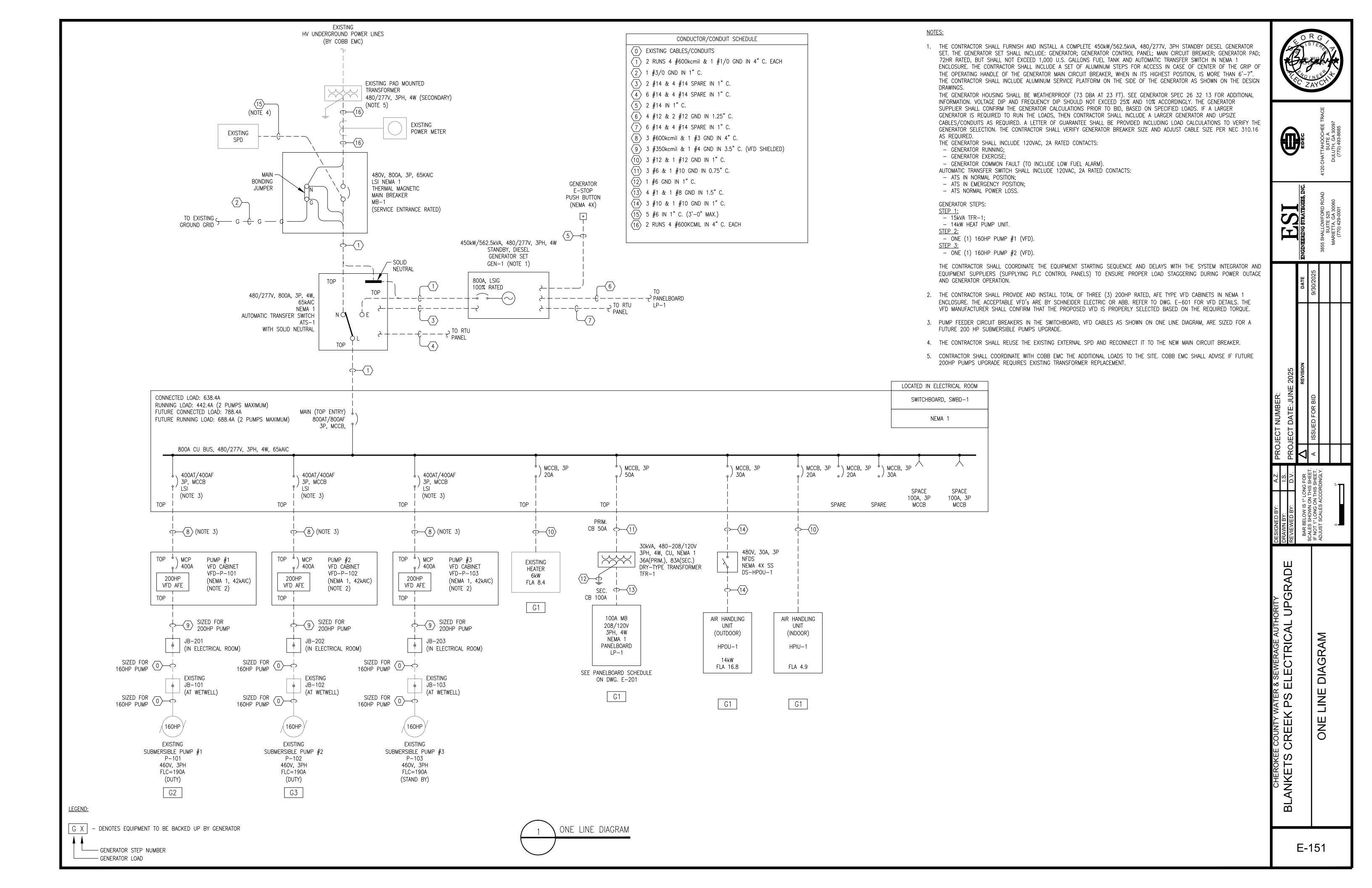
1. THE CONTRACTOR SHALL SAFELY DISCONNECT AND DEMOLISH ALL EXISTING ELECTRICAL EQUIPMENT AS NOTED AND ALL ASSOCIATED INSTALLATION HARDWARE, CABLES AND CONDUITS. ALL DEMOLISHED ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH THE OWNER FOR RE-USE OR DISPOSAL.



ESI MENGERIA STRATEGO 25

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:D BY:	D.V.	PRO	PROJECT DATE: JUNE 2025	
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DIAGRAM ONE LINE CHEROKEE COUNTY W BLANKETS CREEK



PANELBOARD				LP-1						(LOCATED IN ELECTRICAL ROOM)			
VOLTAGE (L-N): 120V E			ENCLOS	URE TYP)E:	NEMA 1							
VOLTAG	E (L–L):	208V					MOUNTIN	NG:		SURFACE			
PHASE,	WIRES:	3 ф, 4	W				AIC RAT	ING (A):		18,000	AIC		-
MINIMUM BUS CAPACITY (A).			NOTEO										
MAIN O	.C. DEVICE (A):	100A, 3F	MAIN E	BREAKER			NOTES:						
CKT	DESCRIPTION	TRIP	POLE		Pl	HASE LC	ADS (AM	IP)		POLE	TRIP	DECODIDATION	CKT
NO	DESCRIPTION	AMPS	PULE	,	4		В	(2	7 PULE	AMPS	DESCRIPTION	NO
1	SPARE	20	1	0.0	0.0					1	20	AREA LIGHTING (EX.)	2
3	EXTERIOR DOOR LIGHT (EX.)	20	1			0.0	0.0			1	20	AREA LIGHTING (EX.)	4
5	VENTOLATOR VF1 & VALVE PIT LIGHTS (EX.)	20	1					0.0	0.0	1	20	ELECTRICAL BUILDING RECEPTACLES (EX.)	6
7	HEAT TAPE (EX.)	20*	1	0.0	0.0					1	20	ELECTRICAL BUILDING LIGHTING (EX.)	8
9	EMERGENCY PUMP (EX.)	20	1			0.0	0.0			1	20	AUTO DIALER (EX.)	10
11	PUMP CONTROL PANEL LCP-1	30	1					7.0	0.0	1	20	VENTOLATOR VF2 & WET WELL LIGHTS (EX.)	12
13	SPARE	20	1	0.0	5.0					1	20	GENERATOR BATTERY CHARGER	14
15	SPARE	20	1			0.0	10.0			2	20	GENERATOR BLOCK HEATER	16
17	SPARE	20	1					0.0	10.0	•	V		18
19	SPARE	20	1	0.0	0.0					1	20	SPARE	20
21	SPARE	20	1			0.0	0.0			1	20	SPARE	22
23	SPARE	20	1					0.0	0.0	1	20	SPARE	24
25	SPARE	20	1	0.0	0.0					1	20	SPARE	26
27	SPARE	20	1			0.0	0.0			1	20	SPARE	28
29	SPARE	20	1					0.0	0.0	1	20	SPARE	30
31	SPACE			0.0	0.0							SPACE	32
33	SPACE					0.0	0.0					SPACE	34
35	SPACE							0.0	0.0			SPACE	36
37	SPACE			0.0	0.0							SPACE	38
39	SPACE					0.0	0.0					SPACE	40
41	SPACE							0.0	0.0			SPACE	42
1	E FOLLOWING CONDUCTORS FOR PANELBOARD (#12AWG; 30A — #10AWG; 40A — #8AWG; 50A #4AWG		G;		NECTED .0		PHASE TO 0.0	·	MP) 7.0			FP CIRCUIT BREAKER LOADS (TO BE REWIRED)	



1. THE EXISTING 120V LOADS ARE CONNECTED TO THE 120V PANELBOARD INSTALLED INSIDE THE EXISTING MCC. CONTRACTOR SHALL REWIRE THE EXISTING 120V LOADS FROM THE EXISTING MCC PANELBOARD TO THE NEW PANELBOARD LP-1. PROVIDE ALL REQUIRED CABLES AND CONDUITS TO THE EXISTING LOADS.



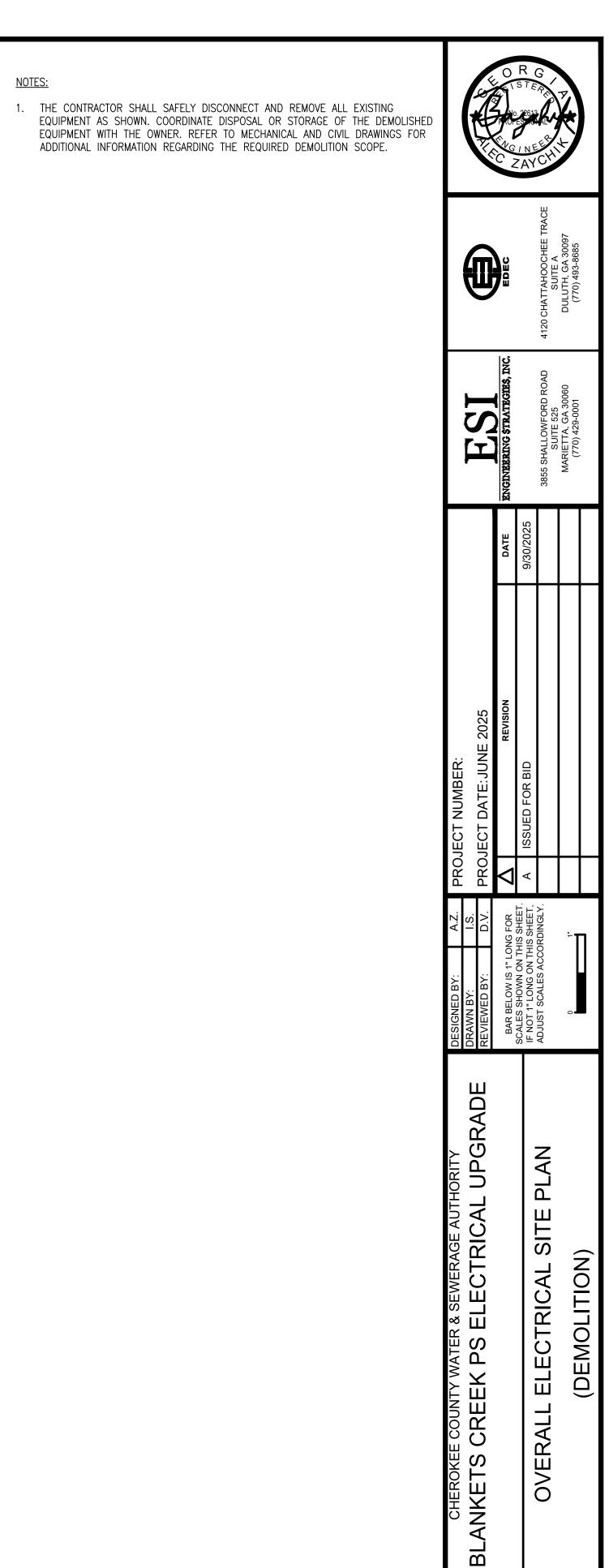
EDEC	4120 CHATTAHOOCHEE TRACE SUITE A DULUTH, GA 30097 (770) 493-8685

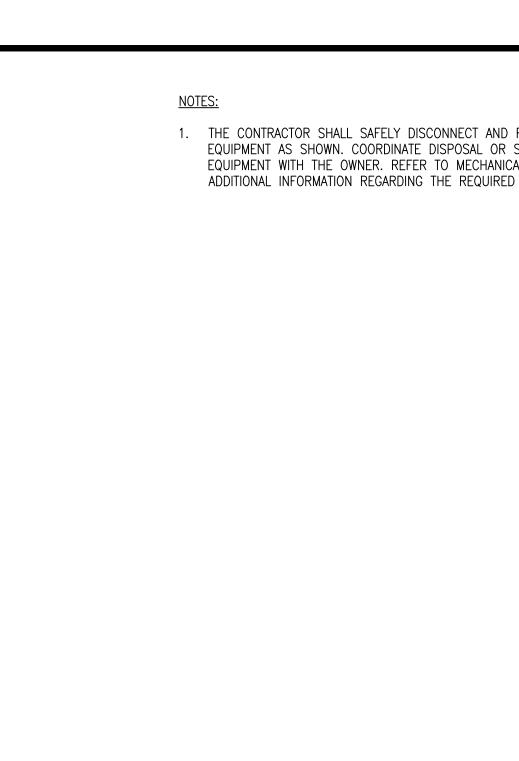
EDEC	4120 CHATTAHOOCHEE TE	DULUTH, GA 30097 (770) 493-8685	
Gres, inc.	ROAD	0060 1	

FSI	ENGINEERING STRATEGIES, I		3855 SHALLOWFORD ROAD SUITE 525	MARIETTA, GA 30060 (770) 429-0001	
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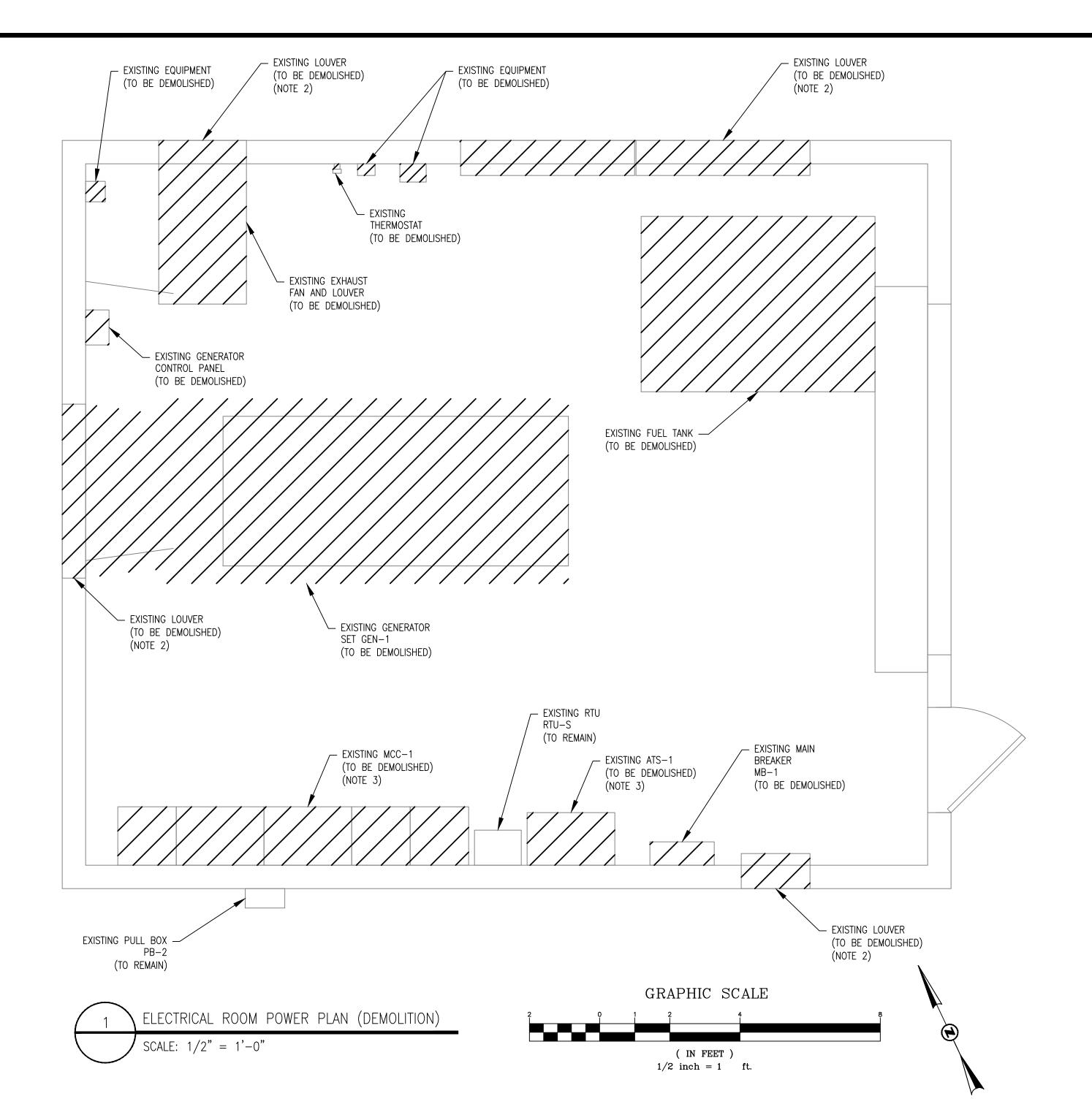
D.V. PROJECI DATE: JUNE 2025	REVISION	ISSUED FOR BID			
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IS CREEK PS ELECTRICAL UPGRADE	PANELBOARD SCHEDULES
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- 1. THE CONTRACTOR SHALL SAFELY DISCONNECT AND REMOVE ALL EXISTING EQUIPMENT AS SHOWN. COORDINATE DISPOSAL OR STORAGE OF THE DEMOLISHED EQUIPMENT WITH THE OWNER. REFER TO MECHANICAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THE REQUIRED DEMOLITION SCOPE.
- 2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLOSING THE WALL OPENINGS LEFT BY THE DEMOLISHED EQUIPMENT.
- 3. IT IS CRITICAL TO MINIMIZE THE PUMP STATION SHUTDOWN TIME DURING THE ELECTRICAL WORK. THE EXISTING MOTOR CONTROL CENTER MCC-1, AUTOMATIC TRANSFER SWITCH ATS-1 AND MAIN BREAKER MB-1 SHALL STAY IN PLACE UNTIL PROPOSED EQUIPMENT WILL BE INSTALLED TO AVOID LOSS OF POWER TO THE PUMPS FOR MORE THAN 8 HOURS. PROPOSED CONSTRUCTION SEQUENCE:
- 1) PROVIDE A TEMPORARY PORTABLE GENERATOR CONNECTED TO THE EXISTING ATS FOR ANY POWER OUTAGES REQUIRED FOR POWER DISTRIBUTION SYSTEM UPGRADE.
- 2) INSTALL, WIRE AND TEST THE PROPOSED STATIONARY 450kW/562.5kVA DIESEL GENERATOR OUTSIDE THE BUILDING.
- 3) DISCONNECT AND REMOVE THE EXISTING GENERATOR AND DIESEL TANK FROM INSIDE THE BUILDING.
- 4) REMOVE, COVER, AND WATERPROOF EXISTING GENERATOR EXHAUST LOUVERS ON THE WEST WALL.
- 5) REMOVE, COVER, AND WATERPROOF THE EXISTING GENERATOR INTAKE AIR LOUVERS ON THE NORTH WALL.
- 6) INSTALL THE PROPOSED SWITCHBOARD SWBD-1
- 7) INSTALL PROPOSED VFD CABINETS VFD-P-1, VFD-P-2, AND VFD-P-3.
- 8) INSTALL THE PROPOSED PUMP CONTROL PANEL LCP-1.
- 9) INSTALL THE PROPOSED DRY-TYPE TRANSFORMER TFR-1 AND PANELBOARD LP-1.
- 10) INSTALL THE PROPOSED HVAC SYSTEM.
- 11) REMOVE, COVER, AND WATERPROOF EXISTING LOUVERS IN THE SOUTH WALL TO PROVIDE FLOOR/WALL SPACE FOR NEW ATS INSTALLATION.
- 12) INSTALL THE PROPOSED AUTOMATIC TRANSFER SWITCH ATS-1.
- 13) INSTALL PROPOSED JUNCTION BOX JB-ER-1 (ABOVE EXISTING MOTOR CONTROL CENTER MCC-1).
- 6) DEMOLISH EXISTING MAIN BREAKER MB-1 AND INSTALL THE NEW MAIN BREAKER MB-1 IN ITS PLACE.
- 7) INSTALL ALL INTERCONNECTION CABLES/CONDUITS BETWEEN THE PROPOSED AND EXISTING (TO REMAIN) EQUIPMENT.
- 8) CRITICAL PATH TO BE PERFORMED AS FAST AS POSSIBLE:
- DISCONNECT UTILITY POWER FROM THE EXISTING MAIN BREAKER AND REMOVE EXISTING CABLES/CONDUITS, INSTALL/CONNECT THE NEW CABLES TO THE NEW MAIN BREAKER AND NEW ATS.
- DISCONNECT THE EXISTING PUMP POWER AND CONTROL CABLES FROM THE EXISTING MCC, REMOVE MCC SECTIONS, PROVIDE POWER WALL MOUNTED JUNCTION BOX FOR EACH PUMP AT THE BOTTOM OF EACH SECTION, AND TERMINATE EXISTING POWER CABLES FOR EACH PUMP. EXTEND EACH POWER CABLE TO THE ASSOCIATED VFD.

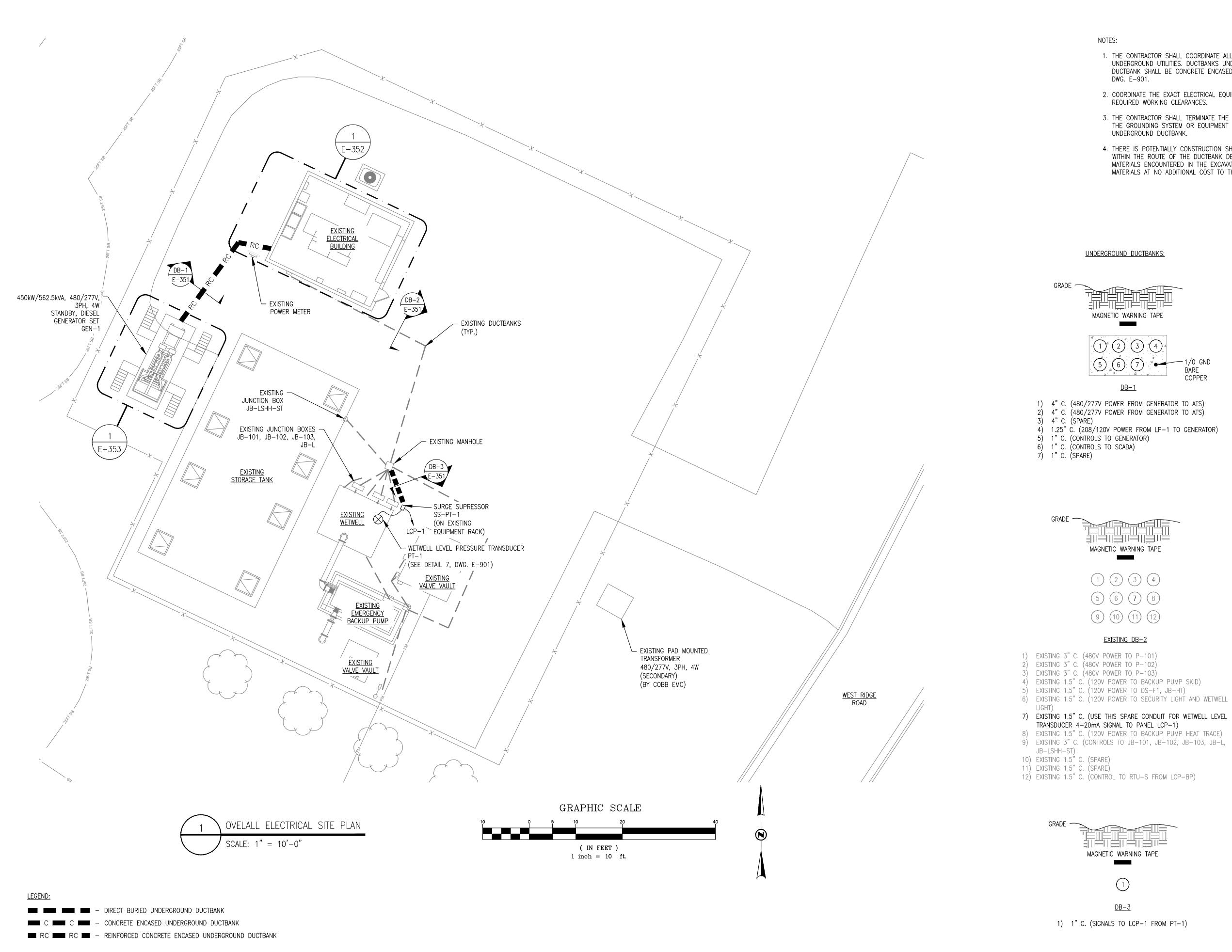
THE ABOVE CONSTRUCTION SEQUENCE IS A RECOMMENDATION ONLY. THE CONTRACTOR SHALL CREATE A DEMOLITION/INSTALLATION SEQUENCE IN ORDER TO MEET THE MAXIMUM SHUTDOWN TIME REQUIREMENT.



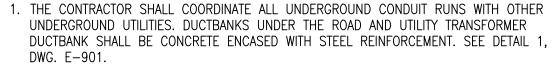


ELECTRICAL UPGRAD **ROOM POWER**

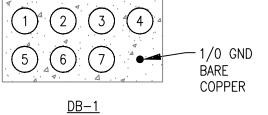
CHEROKEE COUNTY W BLANKETS CREEK ELECTRICAL







- 2. COORDINATE THE EXACT ELECTRICAL EQUIPMENT LOCATION IN THE FIELD TO PROVIDE NEC REQUIRED WORKING CLEARANCES.
- 3. THE CONTRACTOR SHALL TERMINATE THE GROUNDING CONDUCTORS AT BOTH ENDS TO THE GROUNDING SYSTEM OR EQUIPMENT WHERE SPECIFIED TO BE INCLUDED WITH
- 4. THERE IS POTENTIALLY CONSTRUCTION SHORING AND OTHER CONSTRUCTION DEBRIS WITHIN THE ROUTE OF THE DUCTBANK DB-1. THE CONTRACTOR SHALL REMOVE ANY MATERIALS ENCOUNTERED IN THE EXCAVATION OR ROUTE THE DUCTBANK AROUND THE MATERIALS AT NO ADDITIONAL COST TO THE OWNER.



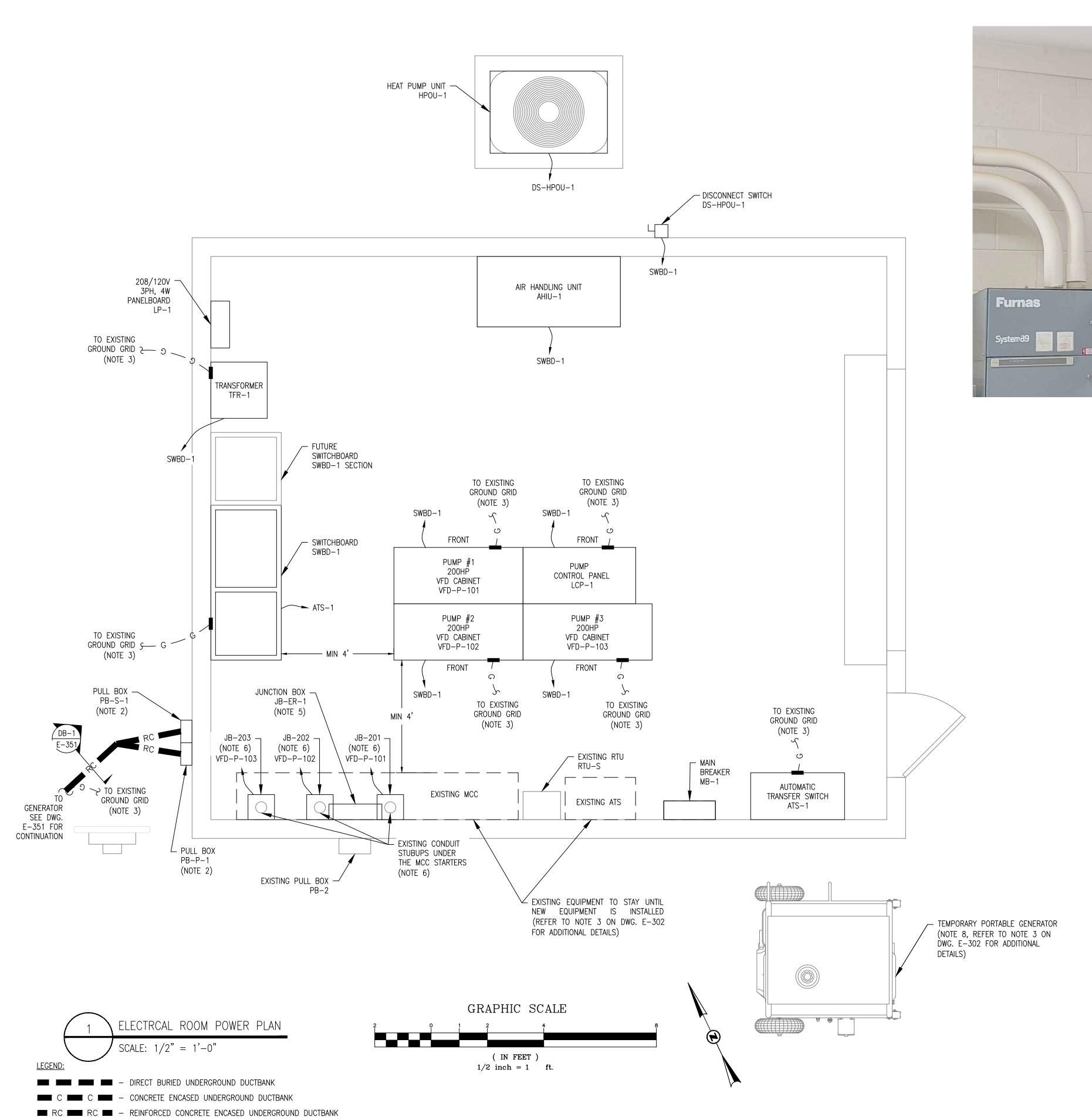
- 9) EXISTING 3" C. (CONTROLS TO JB-101, JB-102, JB-103, JB-L,

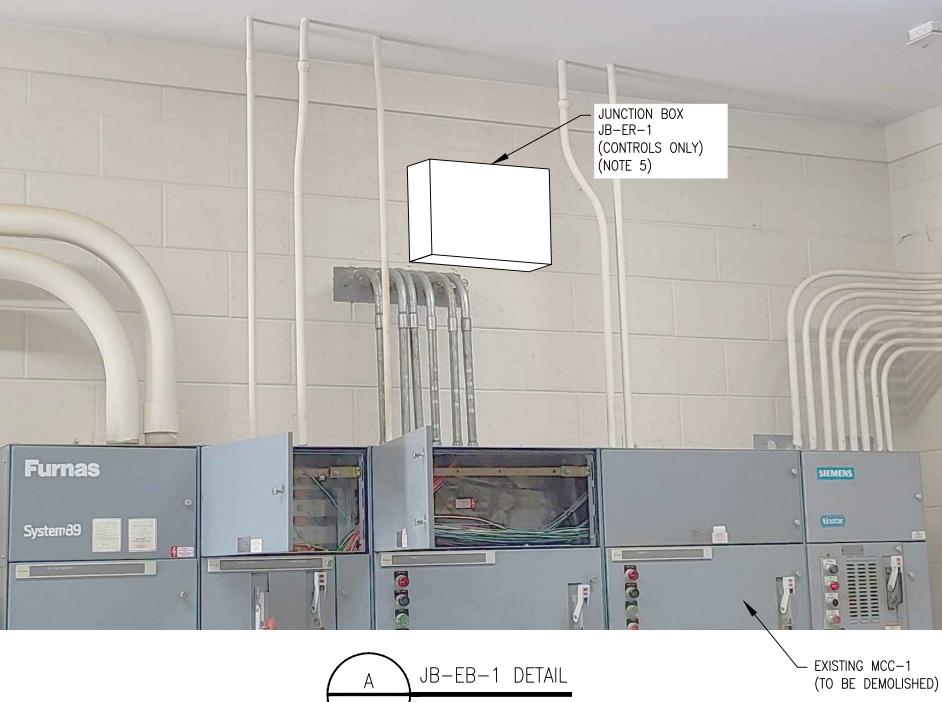


H SERVING STRAT

SITE ELECTRICAL

CREEK OVELALL





- 1. SEE DETAIL "DB-1" ON DWG. E-351 FOR DUCTBANKS SECTIONS.
- 2. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEMA 4X SS PULL BOX ADEQUATELY SIZED FOR ASSOCIATED CABLES/CONDUITS PER NED 314.28, MOUNTED ON THE STRUCTURE'S WALL AT 9'-0" ABOVE GRADE. CONTRACTOR SHALL PROVIDE AND INSTALL SEPARATE PULL BOXES FOR POWER AND CONTROLS (PB-P-1) AND SIGNAL (PB-S-1) CABLES/CONDUITS. CONTRACTOR SHALL PROPERLY SEAL ALL WALL PENETRATIONS TO BE WATER TIGHT AND 2-HOUR FIRE RATED.
- 3. THE CONTRACTOR SHALL PROVIDE AND INSTALL #1/0 AWG BARE COPPER GROUND WIRE FOR CONNECTION TO EXISTING GROUNDING SYSTEM.
- 4. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES. IT IS THE RESPONSIBILITY OF CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. AND COORDINATE THE INSTALLATION ACCORDINGLY. THE EQUIPMENT WIRING SHALL INCLUDE ALL NECESSARY CABLES AND CONDUIT REQUIRED FOR THE PROPER AND SAFE EQUIPMENT OPERATION.
- 5. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEMA 1 JUNCTION BOX ADEQUATELY SIZED FOR ASSOCIATED CABLES/CONDUITS PER NED 314.28, MOUNTED ON THE STRUCTURE'S WALL (SEE DETAIL A).
- 6. THE CONTRACTOR SHALL DISCONNECT THE EXISTING PUMP POWER CABLES FROM THE EXISTING MCC, REMOVE MCC SECTIONS, PROVIDE POWER WALL MOUNTED JUNCTION BOX FOR EACH PUMP (JB-201, JB-202, AND JB-203) AT THE BOTTOM OF EACH SECTION, AND TERMINATE EXISTING POWER CABLES FOR EACH PUMP. EXTEND EACH POWER CABLE FROM THE JUNCTION BOXES TO THE ASSOCIATED VFD.
- 7. THE CONTRACTOR MAY USE THE EXISTING CONDUITS WHERE POSSIBLE IF NEC CONDUIT FILL REQUIREMENTS ARE MET. OTHERWISE, NEW CONDUITS OF THE SAME MATERIAL AS THE EXISTING CONDUITS SHALL BE PROVIDED AND INSTALLED.
- 8. THE CONTRACTOR SHALL PROVIDE A TEMPORARY GENERATOR TO SUPPORT THE EXISTING LOADS DURING NEW EQUIPMENT INSTALLATION.



EDEC 4120 CHATTAHOOCHEE TRA SUITE A DULUTH, GA 30097 (770) 493-8685

DATE ENGINEERING STRATECIES, INC.

9/30/2025
3855 SHALLOWFORD ROAD
SUITE 525
MARIETTA, GA 30060
(770) 429-0001

A.Z. PROJECT NUMBER:

1.S. PROJECT DATE: JUNE 2025

D.V. REVISION

MIS SHEET, A ISSUED FOR BID

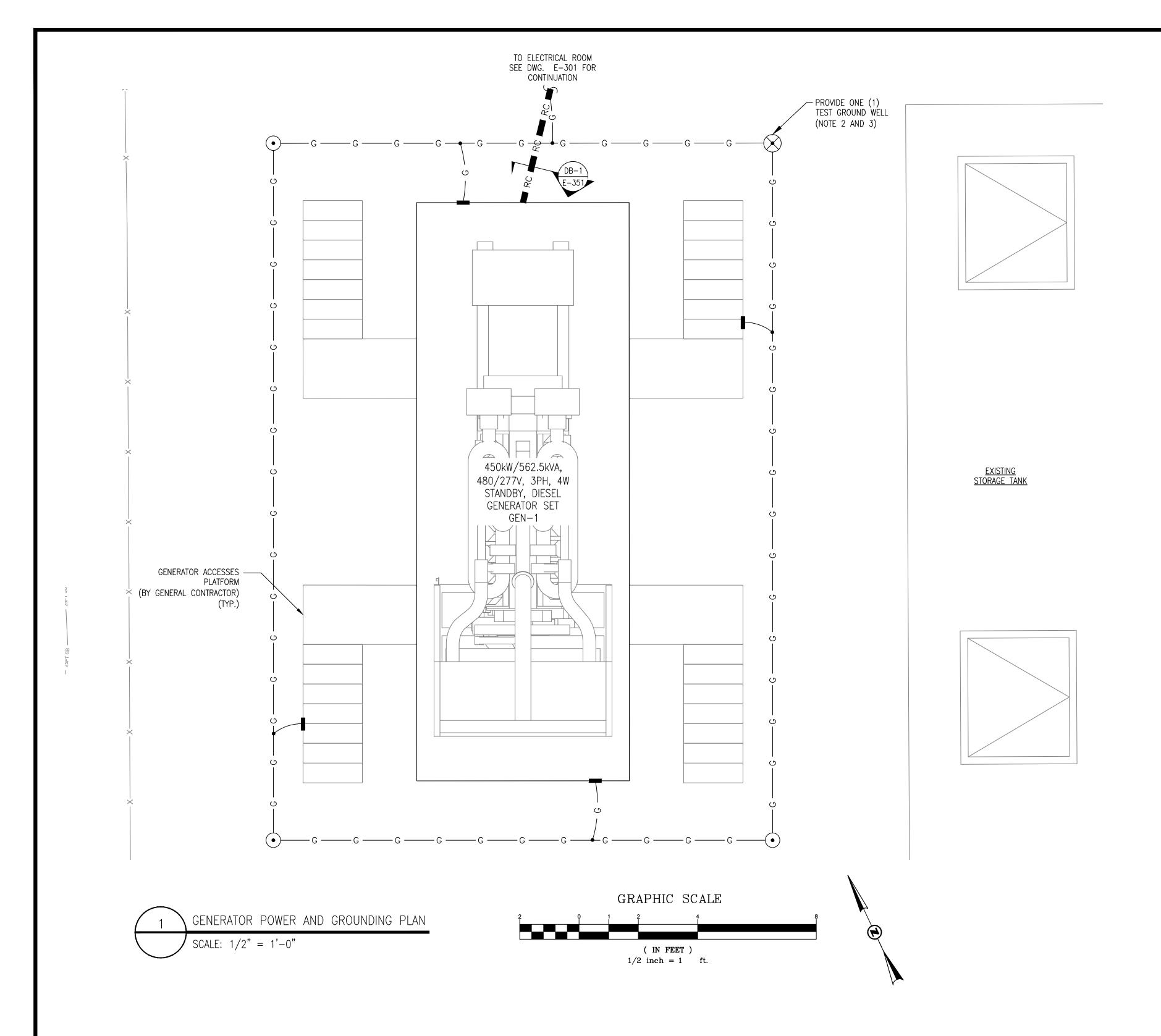
ORDINGLY:

A SUED FOR BID

9

CREEK PS ELECTRICAL UPGRADE
TRICAL ROOM POWER PLAN

DEAW
REVIE
BAR
SCALE
IF NOT



- 1. SEE DETAIL "1" ON DWG. E-351 FOR DUCTBANKS SECTIONS.
- 2. THE CONTRACTOR SHALL PROVIDE A GROUND GRID CONSISTING OF 3/4" DIA. x 10'-0" LONG COPPER CLAD GROUND RODS. THE RODS SHALL BE DRIVEN IN GROUND CONNECTED TOGETHER WITH #1/0 AWG BARE STRANDED COPPER CONDUCTORS. PROVIDE A GROUND WELL FOR ONE ROD. SEE DETAIL "2" AND $^{''}$ "3" ON DWG. E-901 FOR GROUND WELL INSTALLATION DETAILS.
- 3. THE CONTRACTOR SHALL PROVIDE AND INSTALL #1/0 BARE COPPER GROUND WIRE TO CONNECT NEW GROUND RING AROUND GENERATOR SET TO THE PUMP STATION EXISTING GROUND GRID.
- 4. THE CONTRACTOR SHALL HAVE THE PROPOSED GENERATOR PLATFORM AND STAIRS DRAWINGS DESIGNED AND STAMPED BY REGISTERED STRUCTURAL PROFESSIONAL ENGINEER. THE DESIGN SHALL BE SUBMITTED TO THE PROJECT ENGINEERS FOR REVIEW AND APPROVAL.



& SEWERAGE AUTHORITY
ELECTRICAL UPGRADE

POWER PLAN SET GENERATOR CHEROKEE COUNTY W BLANKETS CREEK

E-353

- DIRECT BURIED UNDERGROUND DUCTBANK

- CONCRETE ENCASED UNDERGROUND DUCTBANK

C ■ - REINFORCED CONCRETE ENCASED UNDERGROUND DUCTBANK

