VILLAGE OF NEW CONCORD

WASTEWATER TREATMENT PLANT STANDBY GENERATOR

NEW CONCORD MUSKINGUM COUNTY, OHIO



SEPTEMBER 2019

ADMINISTRATION:

MAYOR **BRETT ESSEX**

CHARLOTTE COLLEY VILLAGE ADMINISTRATOR

LYNN MARLATT FISCAL OFFICER

CHRIS HUEBNER WWTP SUPERINTENDENT

COUNCIL:

PRESIDENT ROBERT DICKSON STEVE WOOTON MEMBER JENNIFER LYLE MEMBER KRISTI (KJ) KEARNS MEMBER **ERIN STEVIC** MEMBER **BOB BAIER** MEMBER

PROJECT LOCATION **LOCATION MAP** NOT TO SCALE

1-800-362-2764 CALL TWO WORKING DAYS BEFORE YOU DIG (NON MEMBERS MUST BE CALLED DIRECTLY)

2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.

consultants planners

APPROVALS:

BRETT ESSEX, MAYOR	DATE
CHARLOTTE COLLEY, VILLAGE ADMINISTRATOR	DATE
CHRIS HUEBNER, WWTP SUPERINTENDENT	

OFFICE:

PROJECT SITE:

VILLAGE HALL 2 WEST MAIN STREET NEW CONCORD, OH 43762

(740) 826-7671 PHONE

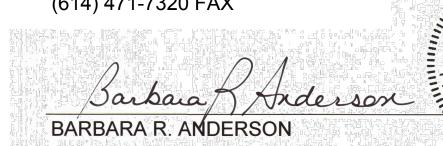
WASTEWATER TREATMENT PLANT 1092 JOHN GLENN HIGHWAY NEW CONCORD, OH 43762

(740) 826-7671 PHONE

ENGINEER:

CT CONSULTANTS, INC. 148 NORTH HIGH STREET GAHANNA, OH 43230

(614) 471-7310 PHONE (614) 471-7320 FAX





180324 DISCIPLINE **GENERAL** SHEET NAME

G-01

PROJECT NO.

ENGINEER'S PROJECT No. 180324

^{1.} UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO

GENERAL NOTES:

BY SUBMITTING A BID, OR STARTING CONSTRUCTION, THE CONTRACTOR CERTIFIES THAT THE CONTRACTOR HAS VISITED THE SITE AND IS SATISFIED THAT HE UNDERSTANDS ALL SITE CONDITIONS THAT MAY HAVE AN AFFECT ON HIS PRICE AND CONSTRUCTION SCHEDULE.

FURTHERMORE THE CONTRACTOR FULLY UNDERSTANDS THE MAKE-UP, CONSTRUCTION, AND OPERATION OF ALL SYSTEMS AND EQUIPMENT HE IS CONSTRUCTING AND THAT HE HAS INCLUDED IN HIS PRICE ALL MATERIALS, SUPPLIES, ACCESSORIES, AND SERVICES NECESSARY TO MAKE THESE SYSTEMS COMPLETE AND OPERATIONAL, WHETHER SUCH MATERIALS, SUPPLIES, AND SERVICES ARE EXPLICITLY SHOWN ON THE DRAWINGS OR INCLUDED IN THESE SPECIFICATIONS, OR ONLY IMPLIED BY THE CLEAR INTENT OF THESE DOCUMENTS FOR THE CONTRACTOR TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM AS PART OF THE SCOPE OF WORK UNDERTAKEN BY THIS CONTRACTOR.

THE TERM CONTRACTOR IN THESE DOCUMENTS REFERS TO THE GENERAL CONTRACTOR, ALL SUB CONTRACTORS, SUPPLIERS AND SERVICE SUPPLIERS; SUPPLYING SERVICES, OR MATERIAL OR LABOR DIRECTLY OR INDIRECTLY TO THIS PROJECT.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.

THE OWNER OR ENGINEER DO NOT SUPERVISE, NOR ARE THEY ENGAGED IN, CONSTRUCTION. THE OWNER OR ENGINEER HAVE NO CONTROL OVER, OR CHARGE OF, AND THEREFORE ARE NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THESE ITEMS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT FOR CONSTRUCTION.

MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR ALL PRODUCTS AND/OR BUILDING MATERIALS THAT MAY CONTAIN HAZARDOUS OR TOXIC CHEMICALS SHALL BE MADE READILY AVAILABLE TO CONTRACTOR, EMPLOYEES AND OWNER'S PERSONNEL DURING CONSTRUCTION. MSDS'S SHALL BE FORWARDED TO THE ENGINEER AT START OF AND DURING CONSTRUCTION AND TO THE OWNER UPON COMPLETION OF PROJECT.

MAINTAINING TRAFFIC

THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF NEW CONCORD AT LEAST 48 HOURS PRIOR TO MAKING ANY CHANGES IN TRAFFIC PATTERNS AND/OR ROAD CLOSURES.

ALL CONSTRUCTION SIGNS AND TEMPORARY TRAFFIC CONTROL AND PROTECTION DEVICES SHALL BE ERECTED AND MAINTAINED IN ACCORDANCE WITH "OHIO DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND O.D.O.T. ITEM 614 - MAINTAINING TRAFFIC.

LOCAL TRAFFIC SHALL HAVE ACCESS TO THEIR RESPECTIVE PROPERTIES AT ALL TIMES, EXCEPT DURING PERIODS OF ROAD OR PIPELINE CONSTRUCTION OR PAVEMENT REPAIR WHICH TEMPORARILY OBSTRUCTS

THE CONTRACTOR SHALL GIVE SUFFICIENT PRIOR NOTICE TO PROPERTY OWNERS BEFORE CLOSING ANY PRIVATE DRIVES. NO PRIVATE DRIVES MAY BE CLOSED FOR MORE THAN SEVEN (7) CONSECUTIVE HOURS AND SHALL BE OPEN TO TRAFFIC AT EACH END OF EACH WORKING DAY. NO SEPARATE PAYMENT WILL BE MADE FOR MAINTAINING TRAFFIC.

TEMPORARY SURFACES

TEMPORARY SURFACES WHERE EXCAVATIONS ARE LOCATED IN STREETS, DRIVES AND PARKING AREAS SHALL BE FURNISHED AND PLACED BY THE CONTRACTOR AND SHALL BE FULLY MAINTAINED TO MINIMIZE INCONVENIENCE TO THE PUBLIC.

THE CONTRACTOR AND SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL ALSO ABIDE BY ALL ORDINANCES OF THE GOVERNING MUNICIPALITY.

SUBSURFACE CONDITIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATIONS OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. THE CONTRACTOR MAY EXAMINE ANY EXISTING RECORDS OF BORINGS, TEST EXCAVATIONS AND OTHER SUBSURFACE INVESTIGATIONS, FOR HIS OWN INFORMATION. ANY AVAILABLE RECORDS OF BORINGS, TEST EXCAVATIONS OR OTHER SUBSURFACE INVESTIGATIONS ARE CONSIDERED INCOMPLETE AND ARE NOT A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR AGREES THAT HE WILL MAKE NO CLAIM AGAINST THE OWNER OR THE ENGINEER, IF IN CARRYING OUT THE WORK, HE FINDS THAT THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED DO NOT CONFORM TO THOSE INDICATED BY TEST EXCAVATIONS OR OTHER SUBSURFACE INVESTIGATIONS.

EXCESS EXCAVATION MATERIAL

ALL EXCESS MATERIAL SHALL BE DISPOSED OF OFF SITE OR STOCKPILED AS DIRECTED BY THE OWNER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE RESTORATION OF ALL WASTE AREAS USED IN THE COURSE OF THIS CONTRACT. THE RESTORATION WORK SHALL INCLUDE CLEANUP, SHAPING AND GRADING AND ESTABLISHMENT OF VEGETATIVE COVER BY SEEDING AND MULCHING IN ACCORDANCE WITH O.D.O.T. SPECIFICATION ITEM 659. THE FINAL GRADING OF WASTE AREAS SHALL BE PROPERLY SLOPED TO PROVIDE DRAINAGE RUNOFF. ALL ROCKS, BOULDERS, CONCRETE CHUNKS, BROKEN PIPES, ETC. SHALL BE BURIED WITHIN THE WASTE AREA TO A DEPTH OF AT LEAST TWO (2) FEET AND SHALL NOT BE VISIBLE AT COMPLETION.

GRANULAR BACKFILL

EXCAVATIONS AT ALL DRIVES, WALKS, PARKING AREAS AND OTHER ROADWAYS SHALL BE BACKFILLED AND COMPACTED WITH GRANULAR MATERIAL CONFORMING TO O.D.O.T. SPECIFICATION ITEM 304 - AGGREGATE BASE. ALL GRANULAR MATERIAL SHALL BE MECHANICALLY COMPACTED IN SIX (6) INCH LAYERS. THE COST OF ALL GRANULAR BACKFILL AND PLACEMENT SHALL BE INCLUDED IN THE PRICE BID FOR RELATED ITEMS SEPARATE PAYMENT WILL NOT BE MADE.

ESTIMATED QUANTITIES

ALL ITEMS OF WORK CALLED FOR ON THE DRAWINGS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED, SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF THE SAME SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MISCELLANEOUS SITE WORK.

SHEETING AND SHORING

ALL SHEETING AND SHORING REQUIRED TO SUPPORT ALL TRENCHES AND EXCAVATIONS SHALL BE PROVIDED BY THE CONTRACTOR AND PAID FOR UNDER THE LUMP SUM PRICE BID FOR MISCELLANEOUS SITE WORK. SEPARATE PAYMENT WILL NOT BE MADE.

FINAL GRADING

THE FINAL GRADING OF THE COMPLETED WORK ON THIS PROJECT SHALL BE ACCOMPLISHED IN SUCH A MANNER AS TO RESTORE ALL DISTURBED AREAS, INCLUDING LAWN AREAS, DITCHES AND OTHER AREAS ADJACENT TO BERMS AND ROADWAYS. THE DISTURBED AREAS SHALL BE FINE GRADED AND SHAPED TO A CONDITION SUITABLE TO BE SEEDED AND MULCHED. THE CONTRACTOR MUST OBTAIN THE ENGINEER'S APPROVAL OF THE FINAL GRADING PRIOR TO ANY SEEDING WORK. THE COST OF ALL WORK INVOLVED IN THE FINAL GRADING SHALL BE CONSIDERED INCIDENTAL TO OTHER VARIOUS ITEMS OF WORK IN THE CONTRACT.

ROCK EXCAVATION REMOVAL AND DISPOSAL

THE COST OF ALL ROCK REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE LUMP SUM BID FOR MISCELLANEOUS SITE WORK. BLASTING WILL NOT BE PERMITTED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.

THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHT-OF-WAY, OR CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE PROPERTY OWNERS. THE OWNER SHALL BE PROVIDED WITH COPIES OF ALL SUCH AGREEMENTS.

EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RAINWATER AND LAND DEVELOPMENT MANUAL, CURRENT EDITION PREPARED BY OHIO DEPARTMENT OF NATURAL

EROSION AND SEDIMENTATION MEASURES

THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT MEASURES AND PROVIDE MAINTENANCE AND INSPECTION OF SUCH MEASURES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENTATION RUNOFF FROM THE PROJECT AREA ALONG WITH PROPER MAINTENANCE AND INSPECTION IN ACCORDANCE WITH THE SPECIFICATIONS.

SILTATION AND EROSION SHALL BE CONTROLLED BY MINIMIZING THE TIME THE PROJECT SITE IS DENUDED BY TEMPORARY SEEDING, PERMANENT SEEDING, AND THE USE OF VARIOUS MECHANICAL MEASURES. THESE DEVICES ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT. ONCE THE PROJECT AREA HAS BEEN STABILIZED, THE MECHANICAL MEASURES SHALL BE REMOVED WITH THE APPROVAL OF THE ENGINEER.

ALL MEASURES SHALL BE MAINTAINED UNTIL ALL CONSTRUCTION UNDER THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED BY THE OWNER. MAINTENANCE SHALL INCLUDE ALL REPAIR TO THESE AREAS AND MEASURES DAMAGED BY EROSION, CONSTRUCTION EQUIPMENT, WEATHER, FIRE, AND/OR OTHER CAUSES INCLUDING "ACTS OF GOD."

THE CONTRACTOR SHALL REMOVE STRAW BALES AND SILT FENCE WHEN GRASS HAS BEEN ESTABLISHED AS 2" HIGH OVER DRAINAGE AREA FLOWING TO CATCH BASINS. THE ENGINEER SHALL DIRECT EROSION CONTROL AT CATCH BASINS IF REQUIRED.

TOPSOIL SHALL BE REMOVED FROM AREAS PRIOR TO CONSTRUCTION OF PAVEMENT, MOUNDING, AND EMBANKMENT AREA. TOPSOIL SHALL BE STOCKPILED FOR RESPREADING AS DIRECTED BY THE OWNER.

SURVEY MONUMENTS

ALL PROPERTY LINE MARKERS (IRON PINS, SPIKES, CONCRETE MONUMENTS, ETC.) THAT ARE DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE REFERENCED AND PROPERLY RESET FOLLOWING CONSTRUCTION UNDER THE SUPERVISION OF A SURVEYOR REGISTERED IN THE STATE OF OHIO AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL DETAIL SURVEYS NEEDED FOR CONSTRUCTION.

VERTICAL DATUM ELEVATIONS SHOWN HEREIN HAVE BEEN BASED UPON NAVD88.

HORIZONTAL DATUM COORDINATES HAVE BEEN BASED UPON NAD83 OHIO SOUTH STATE PLANE COORDINATES.

THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED AND RESTORED BY THE CONTRACTOR AT HIS EXPENSE. WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN COST AND EXPENSE TO A CONDITION SATISFACTORY TO THE CITY.

REPLACEMENT OF TILE AND STORM SEWER

ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER. MAINTAINING THE SAME GRADIENT AS EXISTING USING APPROVED WATER TIGHT COUPLINGS AND FITTINGS.

REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO THE SURROUNDING STRATUM. IF POSSIBLE, THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO A STORM SEWER STRUCTURE, CURB UNDERDRAIN OR OUTLET INTO THE ROADWAY DITCH AS APPLICABLE. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS IMPROVEMENT ITEMS.

RESTORATION AND CLEAN-UP

INCONVENIENCE TO THE ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC SHALL BE KEPT TO AN ABSOLUTE MINIMUM, ALL WORK IS TO CONTINUE ON A UNIFORM BASIS AND ON SCHEDULE. PARTICULARLY THE RESTORATION AND CLEAN-UP OF DISTURBED AREAS AFTER CONSTRUCTION.

THE CONTRACTOR SHALL INCLUDE PROVISIONS TO CLEAN AND SWEEP THE EXISTING ROAD(S) AS REQUIRED BY THE CITY WITH THE COST TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS. ALL FENCES, SIGNS, DRAINAGE STRUCTURES, LANDSCAPING, GUARDRAIL, MAILBOXES, OR OTHER PHYSICAL FEATURES REMOVED, DISTURBED OR DAMAGED DURING WORK WITHIN PUBLIC AREAS AND/OR UNDER THE CONTRACT IMPROVEMENTS, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE RESTORED TO THEIR ORIGINAL LOCATION AND CONDITION (OR BETTER) BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED AND TO THE SATISFACTION OF THE PROPERTY OWNER AND THE CITY. PAYMENT FOR THE SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS IMPROVEMENT ITEMS.

STORAGE OF MATERIAL AND EQUIPMENT

DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR SHALL NOT STORE CONSTRUCTION EQUIPMENT, STORE HARMFUL MATERIAL, TRANSFER FUEL OR DISCHARGE ANY WASTE MATERIALS WITHIN THE 300-FOOT SANITARY PROTECTION RADIUS ASSOCIATED WITH THE EXISTING POTABLE WATER WELLS. THIS LIMITATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REFUELING OF CONSTRUCTION EQUIPMENT AND POSITIONING OF TEMPORARY ON-SITE SANITARY FACILITIES.

THE CONTRACTOR SHALL, AT ALL TIMES DURING CONSTRUCTION, PROVIDE PROPER AND SATISFACTORY MEANS AND DEVICES FOR THE REMOVAL OF ALL WATER ENTERING THE EXCAVATIONS AND SHALL REMOVE ALL SUCH WATER AS FAST AS IT MAY COLLECT IN SUCH A MANNER AS SHALL NOT INTERFERE WITH THE EXECUTION OF THE WORK.

MOUNTING HARDWARE AND MISCELLANEOUS BOLTS

ALL MOUNTING HARDWARE, BOLTS, ETC. UTILIZED IN PERFORMANCE OF THE PROJECT SHALL BE OF STAINLESS STEEL MANUFACTURE UNLESS OTHERWISE NOTED.

ITEMS TO BE INCLUDED

THE CONTRACTOR SHALL FURNISH ALL TOOLS, MATERIAL, LABOR AND INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK CALLED FOR AND/OR SHOWN IN THE DRAWINGS. MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN IN THE DRAWINGS, BUT NECESSARY TO COMPLETE THE WORK SHALL BE FURNISHED,

THE PROJECT INVOLVES WORK AT A SINGLE LOCATION WITHIN THE VILLAGE OF NEW CONCORD, OHIO CONTRACTOR SHALL COORDINATE ACCESS WITH REPRESENTATIVES OF THE VILLAGE OF NEW CONCORD.

SCOPE OF WORK SHALL INCLUDE:

- 1. FURNISH AND INSTALL A STANDBY DIESEL FUELED GENERATOR AT THE EXISTING WWTP WITH RELATED IMPROVEMENTS AND APPURTENANCES.
- COMPLETE MODIFICATIONS TO SITE FENCE TO FACILITATE INSTALLATION OF GENERATOR.

EXISTING UTILITIES

THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE VILLAGE OF NEW CONCORD AND/OR THE ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OF THE LOCATIONS OR THE DEPTHS OF THE EXISTING UNDERGROUND UTILITY FACILITIES SHOWN ON THE PLANS.

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THE PLANS OR NOT. THIS WORK INCLUDES THE MAINTENANCE OF ADEQUATE DEPTH ON ALL EXISTING UTILITY FACILITIES FOR THE DURATION OF CONSTRUCTION ACTIVITY.

WHERE POTENTIAL GRADE AND ALIGNMENT CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, OR AS SPECIFICALLY CALLED OUT ON THE PLANS (THESE LOCATIONS ARE NOTED THUS: EXPOSE), THE CONTRACTOR SHALL EXPOSE UTILITIES OR STRUCTURES SUFFICIENTLY IN ADVANCE OF INSTALLING ANY AFFECTED IMPROVEMENT OR WORK FOR THE ENGINEER TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. ANY DISCREPANCY TO THE PLANS SHALL BE COORDINATED WITH THE CITY ENGINEER TO ENSURE THAT THERE ARE NO CONSTRUCTION OR CONFLICT ISSUES ASSOCIATED WITH UTILITIES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PROPOSED IMPROVEMENTS IF A SPECIFIC BID ITEM IS NOT PROVIDED IN THE ESTIMATE OF

ALL PRIVATE UTILITY RELOCATION NOTED ON THE PLANS (GAS, ELECTRIC, PHONE, ETC.) WILL BE THE RESPONSIBILITY OF THE UTILITY OWNERS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY, COOPERATING WITH THEIR CREWS PERFORMING RELOCATION WORK AND SCHEDULING WORK OF ANY UTILITY IN PROPER SEQUENCE WITH THE CONTRACTED WORK.

PRIVATE UTILITY MANHOLES WITHIN THE LIMITS OF THE WORK SHALL BE ADJUSTED TO GRADE BY THE RESPECTIVE UTILITY. CONTRACTOR SHALL BE RESPONSIBLE AS NOTED ABOVE.

THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (800-362-2764, TOLL FREE) AND TO THE OWNERS OF UNDERGROUND UTILITY FACILITIES WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE ABOVE MENTIONED NOTICE SHALL BE GIVEN AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

IF THERE ARE MARKERS OR OTHER APPARENT PHYSICAL EVIDENCE IN OR NEAR THE PROJECT AREA THAT MAY INDICATE THE EXISTENCE OF UNDERGROUND PETROLEUM OR NATURAL GAS PIPELINES. THE CONTRACTOR SHALL ADDITIONALLY CONTACT THE OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (0GPUPS) AT (614)715-2984, TOLL FREE. SAID NOTIFICATION SHALL BE GIVEN A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

COOPERATION WITH UTILITIES

THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL PUBLIC OR PRIVATE UTILITY FACILITIES DURING CONSTRUCTION. SHOULD IT BECOME NECESSARY TO MOVE, ADJUST, OR TEMPORARILY RELOCATE ANY SUCH FACILITY, THE WORK SHALL BE DONE BY THE OWNER OF THE UTILITY FACILITY. ANY DAMAGE TO UTILITY FACILITIES BY THE CONTRACTOR OR HIS SUBCONTRACTORS WILL BE REPAIRED BY THE OWNER OF SAID UTILITY, AND THE COST OF SAID REPAIRS WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR SHALL SEND PROOF OF PAYMENT TO THE UTILITY FOR THE REPAIR TO THE OWNER, PRIOR TO FINAL PROJECT CLOSEOUT.

IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS CONSIDERED IN HIS BID ALL OF THE PERMANENT AND TEMPORARY UTILITY APPURTENANCES IN THEIR PRESENT OR RELOCATED POSITIONS AND THAT NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED BY HIM DUE TO ANY INTERFERENCE FROM THE SAID UTILITY APPURTENANCES OR THE OPERATION OF MOVING THEM.

(614) 715-2984

17 LIVERTY RD.

(740)826-7661

(844)316-8554

P.O. BOX 5759

1-877-542-2630

OHIO OIL & GAS PRODUCERS

NEW CONCORD, OH 43762

TIME WARNER CABLE

ZANESVILLE, OH 43701

DOMINION EAST OHIO

CLEVELAND, OH 44101

737 HOWARD ST.

UNDERGROUND PROTECTION SERVICE

MUSKINGUM ELECTRIC COOPERATIVE

OHIO UTILITIES PROTECTION SERVICE (800) 362-2764 OR (811)

VILLAGE OF NEW CONCORD 2 WEST MAIN ST. NEW CONCORD, OH 43762

(740) 826-7671 COLUMBIA GAS OF OHIO 2429 LINDEN AVE. ZASNESVILLE, OH 43701

1-800-344-4077

(740)455-6010

9595 MCGLADE SCHOOL RD. DRESDEN, OH 43821

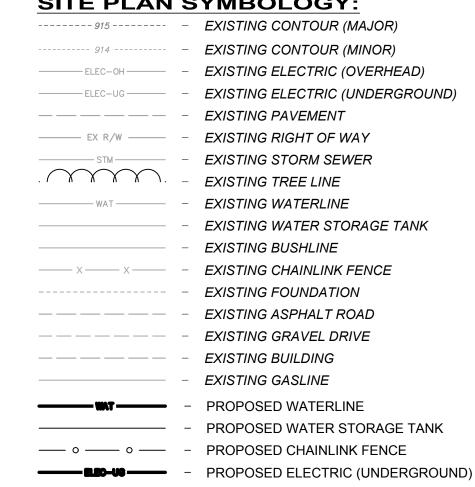
FRONTIER COMMUNICATIONS 921 STEUBENVILLE AVE. CAMBRIDGE, OH 43725 (740) 204-2282

FLOOD ELEVATION

BASED ON DATA AVAILABLE FROM THE 100-YR FLOOD ELEVATION AT THIS SITE IS 830.00.

INDEX OF SHEETS						
Sheet Number	Sheet Title	Sheet Name				
1	COVER SHEET	G-01				
2	GENERAL NOTES	G-02				
3	AREA & SITE PLAN	C-01				
4	ELECTRICAL SITE PLAN	E-01				
5	ELECTRICAL DETAILS	E-02				
6	ONE-LINE DIAGRAM	E-03				
7	STANDARD DETAILS	DET-01				
	•	•				

SITE PLAN SYMBOLOGY:



- PROPOSED ELECTRIC PANELS

EXISTING SYMBOLS				
CATCH BASIN				
POLE, ELECTRIC	\$			
POLE, TELEPHONE	Ţ.			
POLE, LIGHT	\$			
SIGN	0			
ELECTRIC PEDESTAL	EP			
TELEPHONE PEDESTAL	TP			
EXISTING WATER VALVE	\otimes			
EXISTING TREE	0			
EXISTING PROPERTY PIN	0			
BENCHMARK SET	•			

DATE					
REVISION					
ON					
BIDDING	10/18/19	AS SHOWN	JPB	AGD	BRA
ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
CACCAC	R ADDITION	- OIH		ES	

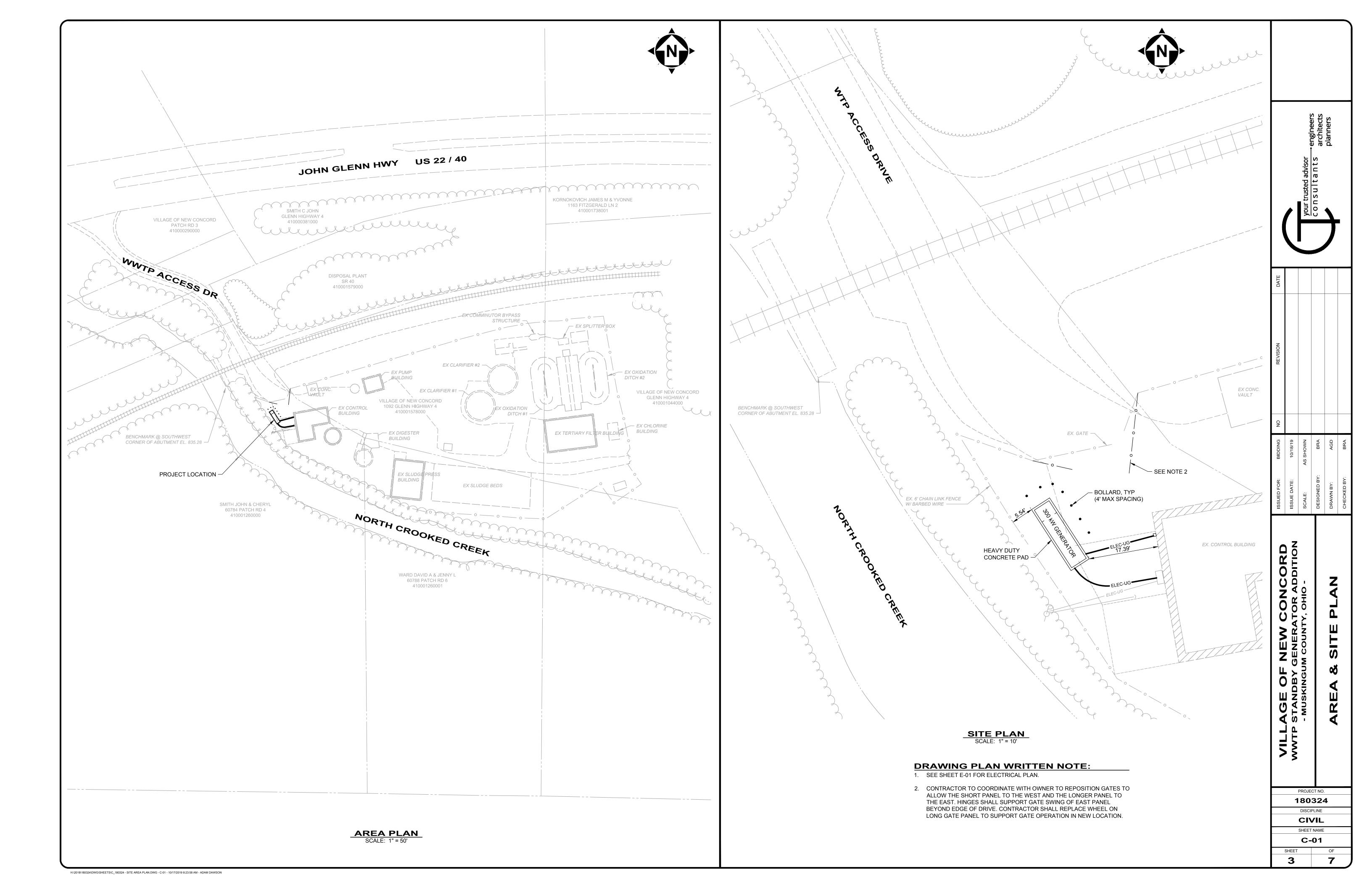
⋖ ७ -

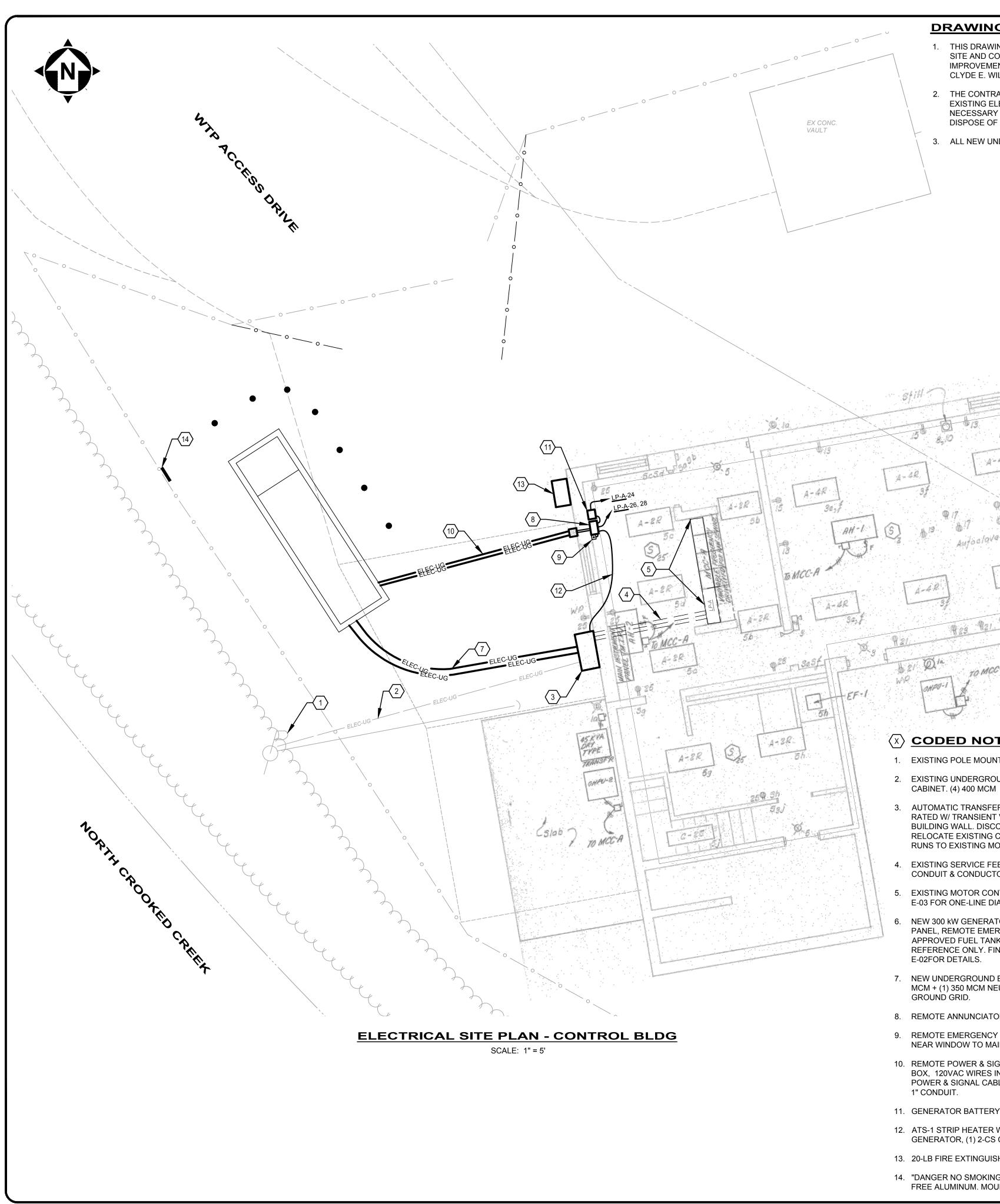
PROJECT NO.

180324

DISCIPLINE

GENERAL SHEET NAME G-02





DRAWING GENERAL NOTES:

- 1. THIS DRAWING IS A COMPOSITE OF SCANNED BACKGROUNDS OF THE PLANT SITE AND CONTROL BUILDING ELECTRICAL PLANS FROM THE 1985 WWTP IMPROVEMENTS PLAN SET, RECORD DRAWING SHEETS 5&34 OF 37 BY CLYDE E. WILLIAMS & ASSOCIATES, INC.
- 2. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION/RELOCATION OF EXISTING ELECTRICAL SYSTEMS AS INDICATED ON ELECTRICAL PLANS OR NECESSARY FOR THE PROJECT. REMOVE FROM SITE AND PROPERLY DISPOSE OF ALL MATERIAL AND DEBRIS FROM THIS WORK.
- 3. ALL NEW UNDERGROUND CONDUIT TO BE SCH-40 PVC

ELECTRICAL GENERAL NOTES:

- 1. ALL ELECTRICAL EQUIPMENT AND MATERIALS WILL BE SELECTED AND INSTALLED IN COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL FIRE CODES, INCLUDING BUT NOT LIMITED TO ALL PERTINENT NFPA REGULATIONS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPLIANCE WITH THESE CODES.
- 2. DO NOT INSTALL DEVICES SCALED FROM THESE DRAWINGS. ALL DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE APPROVED CONDUIT/DEVICE LAYOUT DRAWINGS AND WITH DIMENSIONS TAKEN IN THE FIELD.
- 3. ELECTRICIAN TO VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
- 4. NO DUCTWORK OR PIPING TO BE RUN ABOVE ELECTRICAL PANELS OR THROUGH ELECTRICAL EQUIPMENT ROOMS. ELECTRICIAN SHALL COORDINATE WITH ALL TRADES FOR EQUIPMENT LAYOUTS PRIOR TO ROUGH-IN OF ALL SYSTEMS.
- 5. MANUFACTURERS AND CATALOG NUMBERS SHOWN IN THE LIGHT FIXTURE SCHEDULE ARE PROVIDED TO INDICATE DESIRED LIGHT FIXTURE CHARACTERISTICS. IT IS THE INTENT OF THE DOCUMENTS TO ALLOW ALTERNATE MANUFACTURERS TO PROVIDE LIGHTING PRODUCTS FOR THE PROJECT, AS LONG AS PROPOSED ALTERNATES PROVIDE THE SAME GENERAL DESIGN AND LIGHTING CHARACTERISTICS AS NOTED IN THE LIGHT FIXTURE DESCRIPTION.
- 6. ELECTRICIAN TO CONFIRM LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND ELECTRICAL CHARACTERISTICS OF PROCESS EQUIPMENT PROVIDED BY OTHER TRADES PRIOR TO INSTALLING ROUGH-INS AS SHOWN ON THE ELECTRICAL PLANS. ALL SHOP DRAWING REQUIREMENTS WILL BE CONSIDERED AS THE MEANS AND METHODS OF INSTALLATION.
- 7. THIS PROJECT INVOLVES WORK AT AN INDUSTRIAL FACILITY AND THE CONTRACTOR IS EXPECTED TO PROVIDE CRAFTSMANSHIP REFLECTING THE NATURE OF THE FACILITY. CONDUITS IN PROCESS AREAS ARE TO BE SURFACE MOUNTED RIGID GALVANIZED STEEL (RGS). IN CLASSIFIED AREAS SEAL ALL CONDUITS TO RESTRICT THE PASSAGE OF GASSES AND VAPORS, AND ARRANGE SEALING FITTING DRAINS IN CONDUIT SYSTEMS TO PREVENT ACCUMULATION OF CONDENSATE ABOVE SEALS. ALL CONDUITS ENTERING OR LEAVING A MOTOR CONTROL CENTER, CONTROL PANEL, VALVE ACTUATOR, INSTRUMENT, A BUILDING, OR A PANELBOARD SHALL BE MADE WATERTIGHT USING AN INFLATABLE SEALED BLADDER DUCT SEALING SYSTEM, RAYCHEM 'RAYFLATE' DUCT SEALING SYSTEM RDSS OR APPROVED EQUAL. ALL HARDWARE IS TO BE STAINLESS STEEL UNLESS OTHERWISE DIRECTED.

ALL ENCLOSURES ARE TO BE RATED AS FOLLOWS (UNLESS OTHERWISE NOTED):

- OUTDOORS: NEMA 4X (STAINLESS STEEL)
- CLASSIFIED AREAS: NEMA 7
- INDOORS (CORROSIVE AREAS): NEMA 4X (STAINLESS STEEL)
- INDOORS (CONTROLLED ENVIRONMENT) NEMA 12
- 8. ELECTRICIAN SHALL REVIEW ALL OTHER TRADES' CONSTRUCTION DOCUMENTS AND/OR COORDINATE WITH OTHER TRADES AND VERIFY IF THERE ARE ANY ADDITIONAL ELECTRICAL REQUIREMENTS NOT SHOWN ON ELECTRICAL DRAWINGS. COST FOR WORK SHOWN ON OTHER TRADES' DRAWINGS SHALL BE INCLUDED IN BASE BID. ALL FIELD WIRING AND TERMINATIONS OF PROCESS EQUIPMENT AND INSTRUMENTATION AND CONTROLS SHALL BE THE RESPONSIBILITY OF THE ELECTRICIAN. ALL CABLES AND WIRES PROVIDED BY VENDORS SHALL BE INSTALLED AND TERMINATED BY THE ELECTRICIAN. WIRE ALL MISCELLANEOUS POWER AND CONTROLS AS REQUIRED TO PROVIDE A COMPLETE FUNCTIONING SYSTEM.
- 9. A 4-20mA SIGNAL IS AN ANALOG SIGNAL USED TO TRANSMIT DATA (LEVEL, FLOW, ETC.) FOR PROCESS CONTROLS. THE ELECTRICIAN SHALL PROVIDE, INSTALL, AND TERMINATE TWISTED SHIELDED PAIRS (T.S.P.) WIRING IN RIGID GALVANIZED STEEL CONDUIT (RGS). RGS IS USED IN AN ATTEMPT TO REDUCE THE DISTORTION AFFECT FROM EMI AND RFI. BELOW GRADE CONDUITS SHALL BE PVC SCHED-40. PARALLEL RUNS OF DATA CONDUITS AND POWER CONDUITS SHALL BE SEPARATED BY 2 FEET. THE T.S.P. SHIELD SHALL BE GROUNDED AT THE CONTROL PANEL ONLY (DO NOT GROUND AT BOTH ENDS).
- 10. THE ELECTRICIAN SHALL BE RESPONSIBLE FOR LAYOUT AND COORDINATION OF OPENINGS AND CHASES AND SHALL PERFORM ALL CUTTING AND PATCHING AS REQUIRED TO INSTALL THEIR WORK. ALL CONCRETE HOUSE KEEPING PADS SHALL BE FRAMED AND POURED BY THE ELECTRICIAN. PADS SHALL HAVE A 45 DEGREE, 1" CHAMFER AROUND UPPER EDGE.
- 11. THE ELECTRICIAN SHALL INSTALL & DISTRIBUTE TEMPORARY POWER SERVICE FOR THE DURATION OF THIS PROJECT AS DEFINED IN DIVISION 1 SPECIFICATIONS. ALL COSTS ASSOCIATED WITH THE INSTALLATION, DISTRIBUTION AND MAINTENANCE OF THE TEMPORARY POWER IS THE RESPONSIBILITY OF THE ELECTRICIAN. THERE SHALL BE 480/277V,3PH,4W; 208/120V,3PH,4W; AND 120/240V,1PH,3W POWER AVAILABLE AT ALL LOCATIONS OF CONSTRUCTION AS DIRECTED IN FIELD AND AS SPECIFIED. ALL TEMPORARY EQUIPMENT, CONDUITS & CONDUCTORS SHALL BE COMPLETELY REMOVED AT COMPLETION OF PROJECT.
- 12. ALL ELECTRICAL EQUIPMENT, DEVICES, LIGHTING FIXTURES, CONDUIT, AND WIRING SHOWN ON THE ELECTRICAL DRAWINGS IS NEW UNLESS CLEARLY CALLED OUT AS EXISTING. ALL EXISTING ELECTRICAL EQUIPMENT THAT IS CALLED OUT TO BE REUSED SHALL BE INSPECTED IN THE FIELD BY THE ELECTRICIAN AND THE CONSTRUCTION MANAGER TO DETERMINE ITS CONDITION PRIOR TO STARTING ANY WORK. PROVIDE DOCUMENTATION TO OWNER INDICATING CONDITION OF THE EXISTING EQUIPMENT, AND REUSE EXISTING EQUIPMENT ONLY IF ALL PARTIES AGREE THE CONDITION IS ACCEPTABLE. ALL EXISTING EQUIPMENT DETERMINED TO BE UNUSABLE SHALL BE REPLACED WITH LIKE KIND AS DIRECTED BY THE OWNER. ANY OF THE OWNERS EQUIPMENT DETERMINED TO BE REUSED THAT IS DAMAGED BY ANY CONTRACTOR DURING SWITCHOVER SHALL BE REPLACED BY THAT CONTRACTOR. ALL EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER (NOT THE CONTRACTOR) AND SHALL BE TREATED ACCORDINGLY.
- 13. THE ELECTRICIAN SHALL BE HELD RESPONSIBLE TO ENSURE ALL CONTROLLERS TO BE INSTALLED ARE CAPABLE OF LOCKOUT / TAGOUT PRIOR TO INSTALLATION.
- 14. CONFORM TO THE NEC, OSHA, FIRE MARSHAL, BUILDING DEPARTMENT AND OTHER APPLICABLE CODES AND REGULATIONS. OBTAIN PERMITS, PAY ALL FEES, AND ARRANGE FOR REQUIRED
- 15. ALL LIGHTING AND RECEPTACLE WIRING TO BE #12 XHHW WITH EQUIPMENT GROUND IN 3/4" C UNLESS OTHERWISE NOTED.
- 16. DO NOT MOUNT ANY LIGHT FIXTURE DIRECTLY OVER PIPING OR EQUIPMENT THAT WILL INTERFERE WITH NORMAL LIGHTING DISTRIBUTION.
- 17. SIZE JUNCTION BOXES AS REQUIRED PER NEC. PROVIDE BARRIER TYPE TERMINAL STRIPS, AND ALL WIRING TO BE IN CONDUIT.
- 18. SIZE PULL BOXES (PB) AS REQUIRED PER NEC.
- 19. PROVIDE SEPARATE PB'S FOR CONTROL AND POWER.
- 20. MOTOR OVERLOAD SETTING SHALL BE FIELD SELECTED PER MOTOR NAME PLATE CURRENT AND INSTALLED ACCORDINGLY.
- 21. MOUNT LOCAL CONTROLS AND SERVICE DISCONNECTS ON WALL NEAREST EQUIPMENT WHERE POSSIBLE. (MAXIMUM 60" ABOVE FINISHED FLOOR OR FINAL GRADE, MAXIMUM LATERAL DISTANCE FROM WALL TO EQUIPMENT - 10 FEET).
- 22. ALL FEEDERS RUN BELOW GRADE SHALL BE RUN IN PVC CONDUIT AT MINIMUM 3'-0" BELOW FINISHED GRADE, TRANSITION TO ABOVE GRADE SHALL BE MADE USING FACTORY PVC COATED RIGID STEEL CONDUIT SWEEPS.

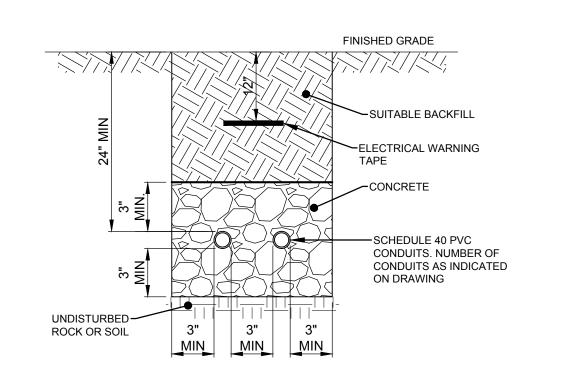
NOIL	ISSUE DATE:	10/18/19	
	SCALE:	AS SHOWN	
	DESIGNED BY:	JPB	
z	DRAWN BY:	JPB	
	CHECKED BY:	NSS	

PROJECT NO. 180324 DISCIPLINE

ELECTRICAL SHEET NAME E-01

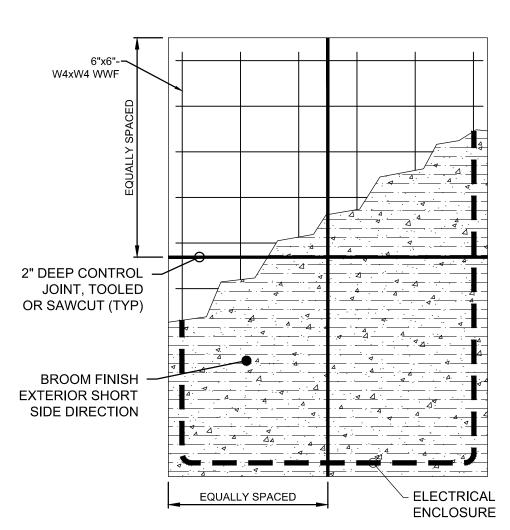
$\langle x \rangle$ CODED NOTES:

- 1. EXISTING POLE MOUNTED UTILITY TRANSFORMERS
- 2. EXISTING UNDERGROUND PVC CONDUIT FROM UTILITY POLE TO EXISTING CT
- AUTOMATIC TRANSFER SWITCH "ATS-1", 3-POLE, NEMA 4X, 600A SERVICE ENTRANCE RATED W/ TRANSIENT VOLTAGE SURGE SUPPRESSION. MOUNTED ON CONTROL BUILDING WALL. DISCONNECT AND REROUTE ALL EXISTING CONDUIT AS NEEDED. RELOCATE EXISTING CT CABINET AND METER AS NEEDED, REUSE EXISTING CONDUIT RUNS TO EXISTING MOTOR CONTROL CENTER "MCC-A" AS MUCH AS POSSIBLE.
- 4. EXISTING SERVICE FEED TO MCC-A THROUGH CONCRETE FLOOR. REUSE EXISTING CONDUIT & CONDUCTORS, CONNECT TO LOAD LUGS ON NEW ATS-1.
- 5. EXISTING MOTOR CONTROL CENTER "MCC-A" & LIGHTING PANEL "LP-A". SEE SHEET E-03 FOR ONE-LINE DIAGRAM.
- NEW 300 kW GENERATOR WITH INTEGRAL CONTROLLER, REMOTE ANNUNCIATOR PANEL, REMOTE EMERGENCY STOP BUTTON, AND 24-HOUR CAPACITY STATE OF OHIO APPROVED FUEL TANK. INSTALLED ON CONCRETE PAD. BOLLARDS SHOWN FOR REFERENCE ONLY. FINAL LOCATION TO BE DETERMINED IN THE FIELD. SEE SHEET E-02FOR DETAILS.
- 7. NEW UNDERGROUND BACKUP FEED TO ATS-1 "EMERGENCY" LUGS, (2) SETS OF (3) 350 MCM + (1) 350 MCM NEU + (1) 4/0 GND IN 3" CONDUIT. BOND GENERATOR TO EXISTING
- 8. REMOTE ANNUNCIATOR PANEL FOR GENERATOR
- 9. REMOTE EMERGENCY STOP PUSHBUTTON STATION FOR GENERATOR, MOUNTED NEAR WINDOW TO MAINTAIN LINE-OF-SITE WITH GENERATOR.
- 10. REMOTE POWER & SIGNAL WIRING TO GENERATOR VIA WALL MOUNTED JUNCTION BOX, 120VAC WIRES IN(1) 1" CONDUIT FOR JACKET HEATER CIRCUITS FROM "LP-A", DC POWER & SIGNAL CABLES FOR & BATTERY CHARGER, ATS-1, AND ANNUNCIATOR IN (1)
- 11. GENERATOR BATTERY CHARGER
- 12. ATS-1 STRIP HEATER WIRING, (2) #12 + (1) #12 GND IN 3/4" C. DC SIGNAL WIRING TO GENERATOR, (1) 2-CS CABLE IN 3/4" C.
- 13. 20-LB FIRE EXTINGUISHER IN FIBERGLASS CABINET.
- 14. "DANGER NO SMOKING OR OPEN FLAMES WITHIN 50 FEET" WARNING SIGN. 0.040" RUST FREE ALUMINUM. MOUNT TO EXISTING FENCE.

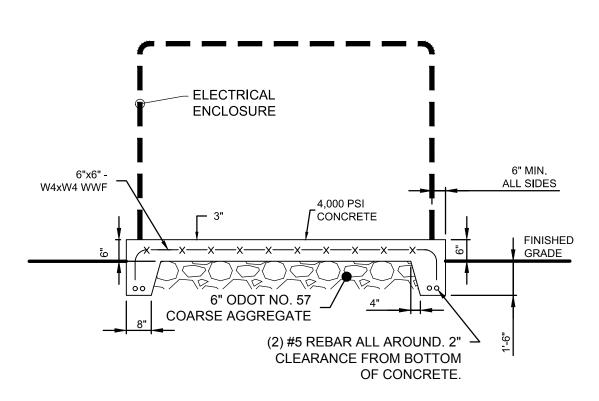


ELECTRICAL TRENCH DETAIL

NOT TO SCALE



<u>PLAN</u>



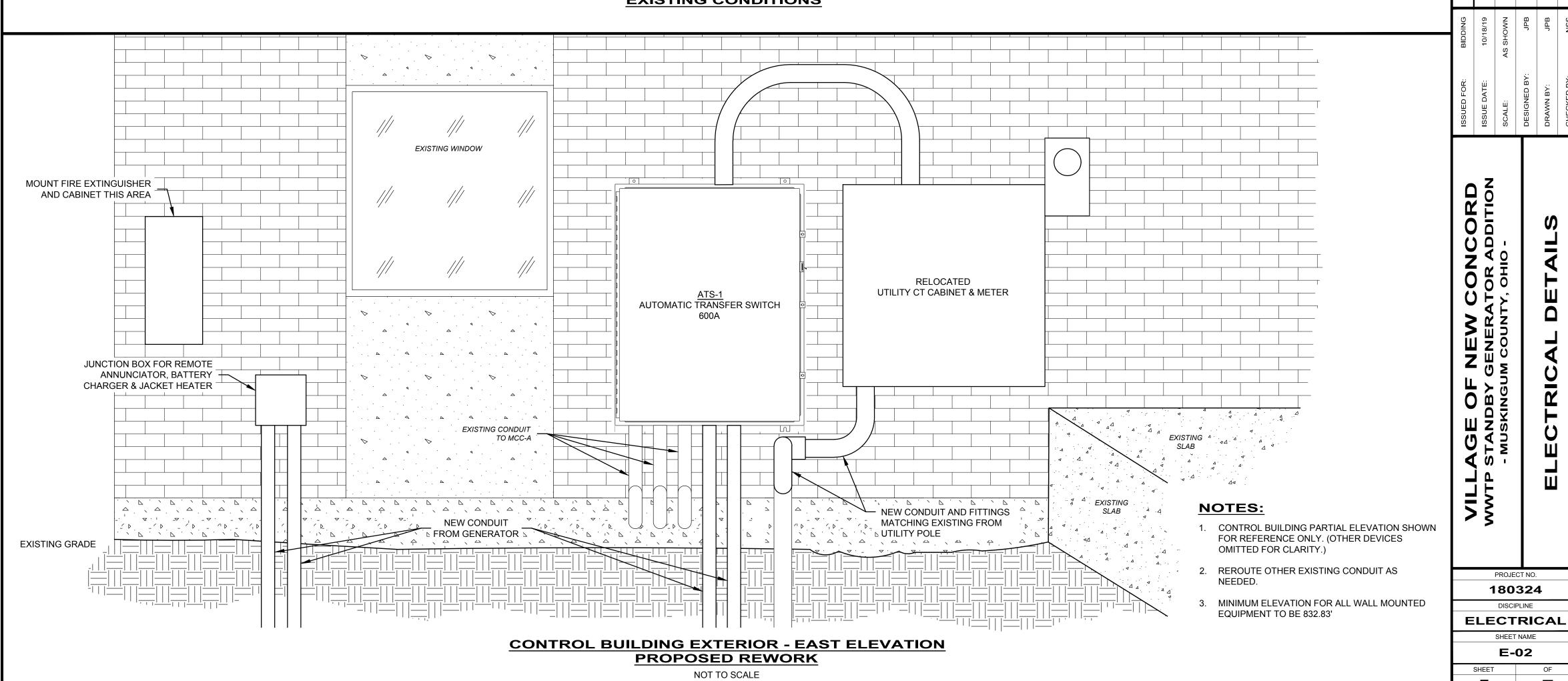
<u>SECTION</u>

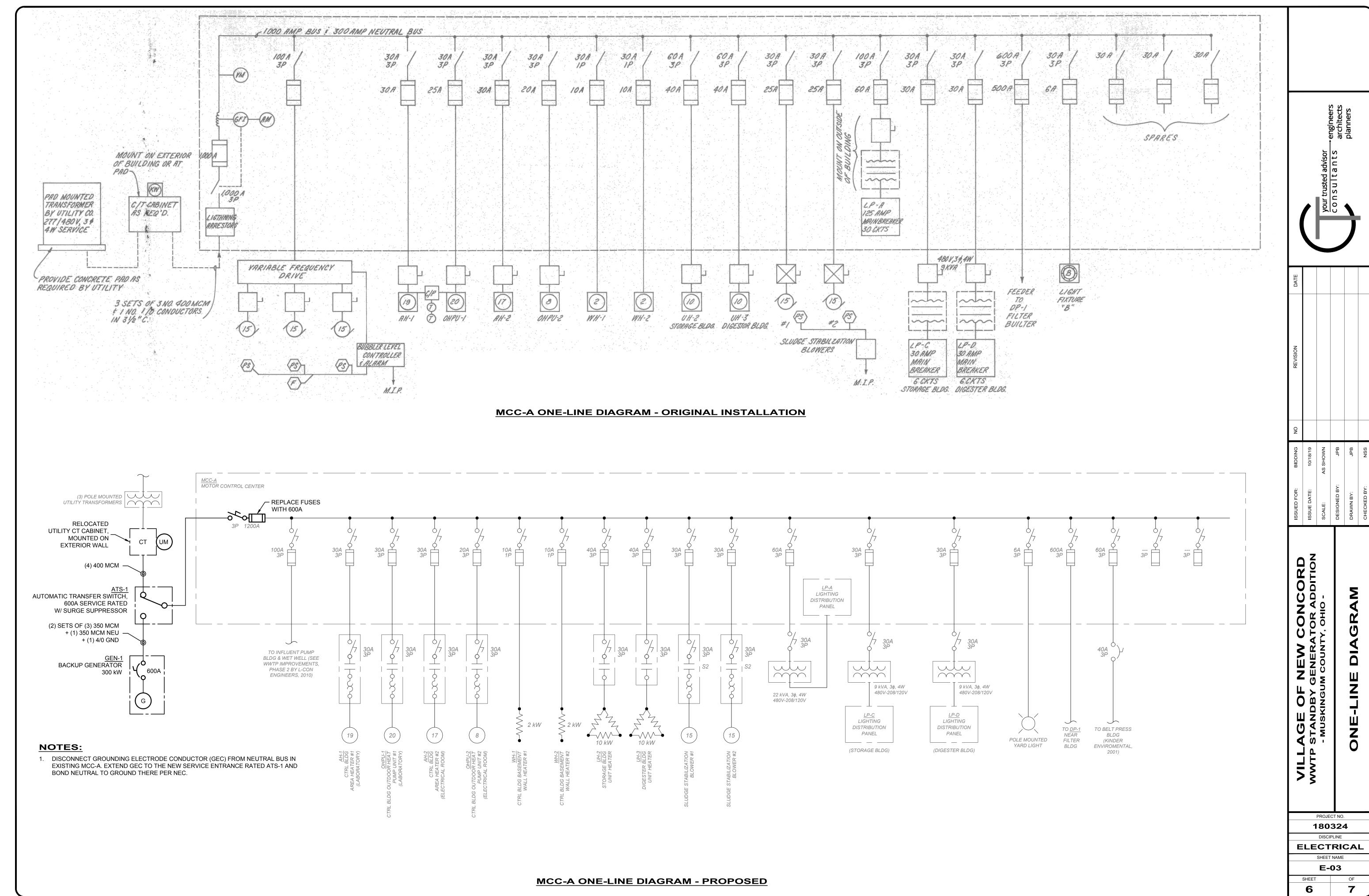
GENERATOR PAD DETAIL

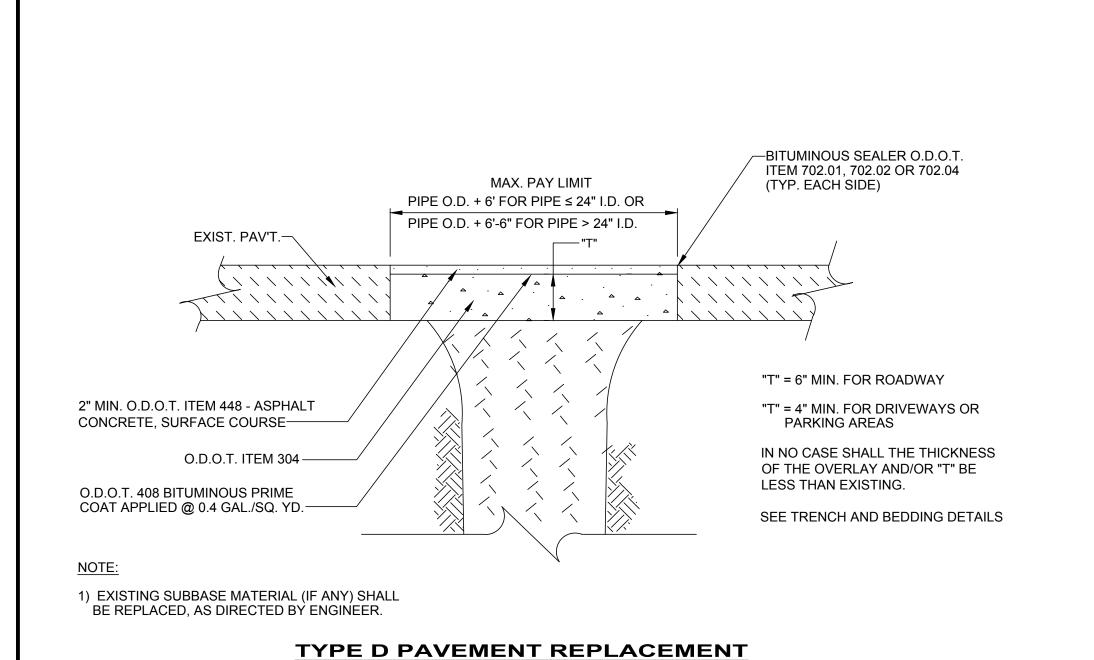
NOT TO SCALE



CONTROL BUILDING EXTERIOR - EAST ELEVATION EXISTING CONDITIONS

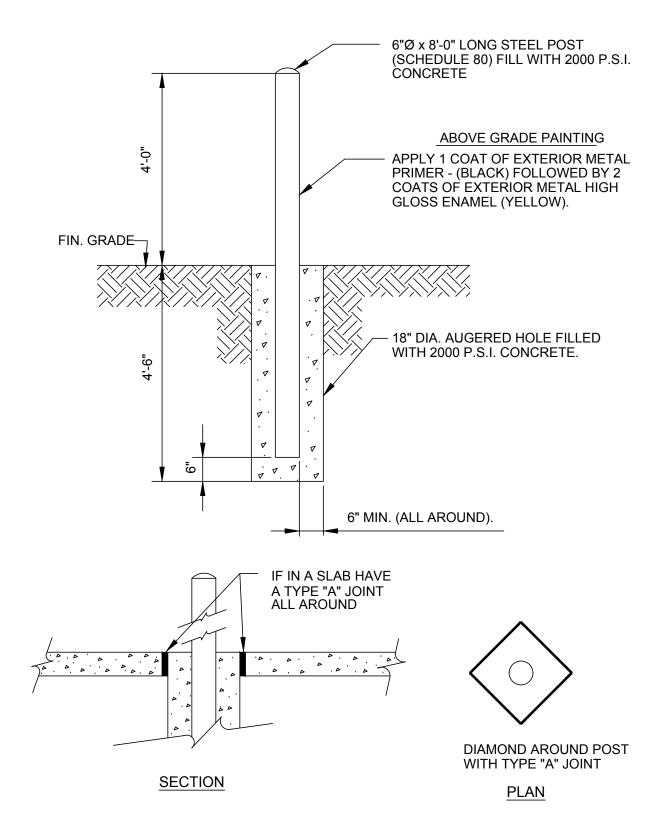






(ASPHALT OVER STONE BASE)

NOT TO SCALE



STEEL POST DETAIL

NOT TO SCALE

PANELBOARD	LP-A						
PANEL TYPE	NQOD OR E	EQUAL		1			
NEMA TYPE	NEMA	1		1			
VOLTAGE	208Y/12	20V		PHASE		3	
OCPD	125A			WIRE		4	
MOUNTING	INTEGRATED IN	ITO MCC-A	١	BUSS	225A		
LOAD	DESCRIPTION	BKR.	CKT.	PHASE	CKT.	BKR.	LOAD DESCRIPTION
CONTROL BUILDI	NG LIGHTS	15/1	1	Α	2	20/1	WET WELL LIGHTS
LABORATORY LI	GHTS	15/1	3	В	4	20/1	MAIN INSTRUMENTATION PANEL
OFFICE LAVATOR	RY/ BASEMENT LIGHTS	15/1	5	С	6	20/1	INFLUENT FLOW METER
BASEMENT RCP	TS	15/1	7	Α	8	20/2	STILL
BASEMENT RCP	TS	20/1	9	В	10	20/2	STILL
LABORATORY RO	CPTS	20/1	11	С	12	20/2	AUTOCLAVE
LABORATORY RO	CPTS	20/1	13	Α	14	2012	AOTOCLAVE
LABORATORY RO	CPTS	20/1	15	В	16	15/1	FUME HOOD
LABORATORY RO	CPTS	20/1	17	С	18	20/1	SUMP PUMP
LABORATORY RO	CPTS	20/1	19	Α	20	20/1	BUBBLER LEVEL CONTROLLER
LABORATORY RO	CPTS	20/1	21	В	22	20/1	BASEMENT EXHAUST FAN "EF-2"
LABORATORY RO	CPTS	20/1	23	С	24	20/1	ATS STRIP HEATER
MISCELLANEOUS	S RCPTS	20/1	25	А	26	20/1	GENERATOR BATTERY CHARGER
SPARE		20/1	27	В	28	20/1	GENERATOR HEATING JACKET
SPARE		20/1	29	С	30		

LP-A PANELBOARD SCHEDULE

PROPOSED NEW CIRCUITS IN **BOLD**

