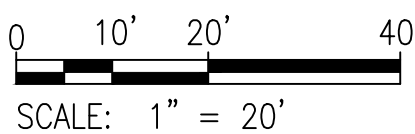


GENERAL SHEET NOTES

1. REFER TO DRAWINGS E0.01 FOR LEGEND AND ABBREVIATIONS AND E0.02 FOR DEFINITIONS AND GENERAL NOTES.
2. REFER TO DRAWING E5.01 FOR ELECTRICAL ONE-LINE DIAGRAM.
3. REFER TO DRAWING E6.02 DETAIL G FOR CONCRETE ENCASED ELECTRODE DETAIL. COORDINATE INSTALLATION WITH ALL OTHER UTILITIES.
4. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE IN NEMA 4X ENCLOSURE, UON.
5. COORDINATE NEW ELECTRICAL SERVICE AND EXISTING SERVICE CUT-OVER WITH APPALACHIAN POWER COMPANY AND FACILITY OPERATIONS.
6. COORDINATE ELECTRICAL LAYOUT WITH CIVIL SITE PLANS FOR NEW AND EXISTING UTILITIES.
7. LOCATIONS INDICATED FOR GROUND RODS AND BURIED GROUND GRID CONDUCTORS ARE APPROXIMATE. COORDINATE ACTUAL LOCATIONS WITH EXISTING AND NEW UNDERGROUND UTILITIES. ALL GROUND RODS AND GROUND GRID CONDUCTORS MUST BE INSTALLED A MINIMUM OF 30" BELOW FINISHED GRADE, UON.
8. SEE DRAWING E6.01 DETAIL A FOR ALL UNDERGROUND DIRECT BURIED CONDUIT INSTALLATION UON.

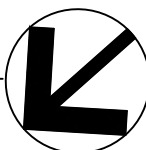
SHEET KEYNOTES

- 1 DEMOLISH EXISTING ELECTRICAL SERVICE CONDUIT AND CONDUCTORS, CT CABINET AND CT'S & METER. COORDINATE SERVICE CUTOVER WITH APPALACHIAN POWER COMPANY. ABANDON IN PLACE, CUT AND CAP EXISTING UNDERGROUND SERVICE ENTRANCE CONDUITS BELOW GRADE. SEE DRAWING ED5.01 FOR INSTRUCTIONS.
- 2 RELOCATE APPALACHIAN POWER COMPANY ELECTRICAL METER. THE METER MUST BE MOUNTED TO A SUPPORT STRUCTURE MINIMUM 3'-0" FEET AWAY AND NO MORE THAN 20'-0" FROM THE TRANSFORMER. MOUNT METER IN A PLUMB POSITION AT LOCATION, USING REMOVABLE CORROSION RESISTANT FASTENERS. PROVIDE 2" PVC UNDERGROUND CONDUIT WITH PULL STRING TO CT UTILITY TRANSFORMER COMPARTMENT. THE METER SOCKET MUST BE GROUNDED BY A SUPPLEMENTAL GROUND ROD & #6 BCSD GROUNDING CONDUCTOR.
- 3 APPALACHIAN POWER COMPANY PAD MOUNTED TRANSFORMER. PROVIDE CONCRETE PAD PER DRAWING E6.02 DETAIL H. COORDINATE EXACT STUB LOCATIONS AND PAD DIMENSIONS PER APPALACHIAN POWER COMPANY TRANSFORMER DETAIL. PROVIDE SECONDARY COPPER CONDUCTORS WITH CABLE TERMINATION LUGS AS REQUIRED BY THE POWER COMPANY.
- 4 NEW APPALACHIAN POWER COMPANY POLE AND OVERHEAD LINES. COORDINATE CONDUIT STUB-UPS WITH DRAWING E6.01 DETAIL E.
- 5 NEW NATURAL GAS 450KW, 480/277V 3-PHASE 4-WIRE GENERATOR, WITH LEVEL 3 SOUND ACOUSTICAL ENCLOSURE.
- 6 BURIED GROUND GRID EXISTING TO REMAIN.
- 7 CONNECT GROUNDING ELECTRODE TO MAIN SERVICE NEUTRAL BUS. SEE GROUNDING CONNECTION DIAGRAM ON DRAWING E6.02 DETAIL A.
- 8 DISCONNECT/RECONNECT EXISTING LIGHTNING PROTECTION DOWN LEAD TO UNDERGROUND GROUND GRID AS SHOWN AFTER SITE WORK IS COMPLETED.
- 9 DISCONNECT/RECONNECT BURIED GROUND GRID CONDUCTORS AND GROUND RODS AS SHOWN AFTER SITE WORK IS COMPLETED. SEE DRAWING E6.02 DETAIL A AND GROUND RODS PER E6.02 DETAILS E AND F.
- 10 CONNECT SWITCHGEAR "MDSWGR" GROUNDING CONDUCTOR TO RAW WATER PIPE. SEE GROUNDING CONNECTION DIAGRAM ON DRAWING E6.02 DETAIL A.
- 11 COORDINATE ELECTRICAL DUCTBANK CROSSING ABOVE UNDERGROUND PIPES.
- 12 PROVIDE WEATHERPROOF GFCI SUMP PUMP RECEPTACLE 5'-0" AFF, 1" DIRECT BURIED PVC CONDUIT FROM VALVE VAULTS TO PUMP STATION. CORE-DRILL VAULT WALL AND SEAL PENETRATION AROUND CONDUIT WATER TIGHT WITH NON-SHRINK GROUT. PROVIDE DIRECT BURIED CONDUIT 24" BELOW FINISHED GRADE BETWEEN THE NEW VAULTS & THE PUMP STATION. PROVIDE NEMA 4X J-BOX WHERE CONDUCTORS EXIT THE VAULT AND UPON ENTRY TO THE PUMP STATION.



ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"



WESTERN VIRGINIA WATER AUTHORITY  
601 South Jefferson Street, Suite 300  
Roanoke, Virginia 24011

DES:	T.P.B	SCALE:	1"=20'-0"
DRAWN:	T.P.B	HORIZ:	N/A
CHECK:	L.H.K	VERT:	N/A
DATE:	1/24/20		

CRYSTAL SPRING  
PUMP STATION RELOCATION

ELECTRICAL SITE PLAN

DRAWING  
E1.01

SHEET

57

REV	DATE	DESCRIPTION
1	3/10/20	ADDENDUM #1