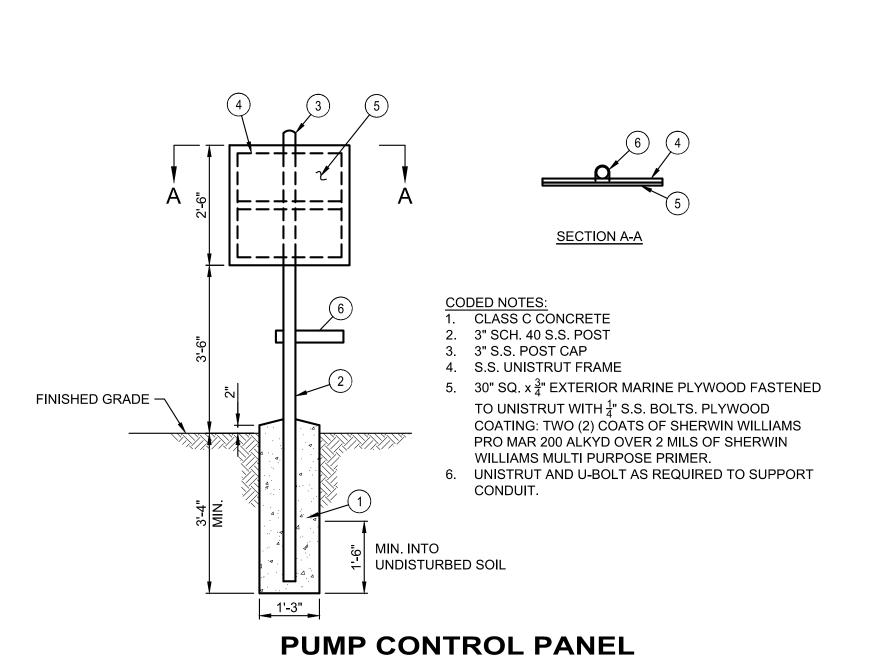
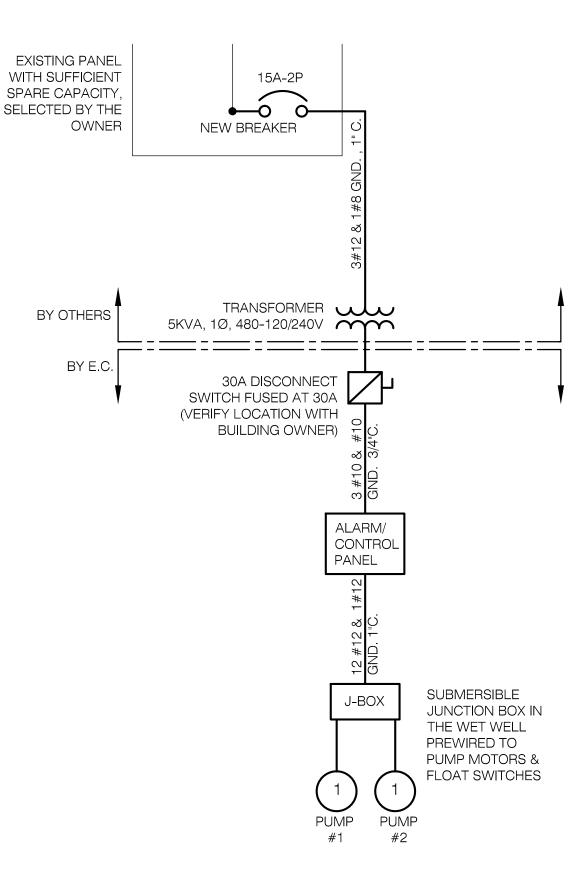
ELECTRICAL SPECIFICATIONS

- 1. THE ELECTRICAL CONTRACTOR SHALL APPLY FOR AND SECURE ALL COSTS AND CHARGES FOR PERMITS, CONSTRUCTION, AND MISCELLANEOUS WORK ASSOCIATED WITH AND REQUIRED FOR THE COMPLETION OF THE PROJECT ELECTRICAL WORK.
- 2. THE ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS OF ELECTRICAL WORK BY ALL INSPECTION AUTHORITIES HAVING JURISDICTION. COPIES OF INSPECTION REPORTS SHALL BE MADE AVAILABLE TO THE OWNER UPON REQUEST, AND THREE (3) COPIES OF THE APPROVED FINAL INSPECTION REPORT SHALL ACCOMPANY THE REQUEST FOR FINAL PAYMENT.
- 3. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC 2014), OHIO BUILDING CODE, LOCAL CODES AND ORDINANCES WHERE APPLICABLE, AND REQUIREMENTS OF O.S.H.A.
- 4. ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE NEW, U.L. LISTED OR LABELED, AND CONFORM TO NEMA AND ANSI STANDARD WHERE APPLICABLE.
- 5. THE CONTRACTOR SHALL VISIT THE SITE AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS WHICH AFFECT HIS WORK PRIOR TO BID. COORDINATE AND SCHEDULE WORK WITH OTHER TRADES TO ENSURE SATISFACTORY PERFORMANCE, AVOID DELAYS AND DUPLICATIONS AND MEET THE OWNER'S COMPLETION SCHEDULE FOR THE USE OF THE BUILDING.
- 6. ALL WORK SHALL BE INSTALLED BY WORKMEN FULLY SKILLED IN THE WORK TO BE PERFORMED. REPAIR OR REPLACE EXISTING EQUIPMENT OR PROPERTY OF THE OWNER DAMAGED BY ELECTRICAL TRADES WORKMEN.
- 7. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE MATERIALS AND WORKMANSHIP PROVIDED BY HIM FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF OWNER'S FINAL ACCEPTANCE. REPAIR OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER WITHIN THE GUARANTEE PERIOD.
- 8. IDENTIFY PANELBOARDS AND USAGE OF PANELBOARD CIRCUIT BREAKERS WITH PLASTIC LAMINOID NAMEPLATES. NAMEPLATES SHALL INDICATE PANEL DESIGNATION, VOLTAGE, AND USE.
- 9. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE EMT, INTERMEDIATE, OR RIGID GALVANIZED IN ACCORDANCE WITH AND AS PERMITTED BY THE NATIONAL ELECTRICAL CODE OR LOCAL/STATE CODES AS APPLICABLE. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, 1" MINIMUM. USE PVC-COATED RGC ELBOWS TO TRANSITION TO ABOVE GRADE RGC OUTDOORS.
- 10. FURNISH AND INSTALL PULL BOXES, JUNCTION, AND DEVICE BOXES OF SUITABLE CODE GAUGE AND SIZE. ALL TERMINATIONS IN IN-GROUND PULL BOXES SHALL BE LIQUID-TIGHT.
- 11. ELECTRICAL WIRES SHALL BE MINIMUM #12 AWG, COPPER, 600 V RATED. #14 AWG COPPER SHALL BE PERMISSIBLE FOR CONTROL CIRCUITRY. AMPACITY RATINGS SHALL BE BASED UPON 75°C RATINGS.
 - A. #14, #12, AND #10 AWG CONDUCTORS SHALL BE "THHN/THWN".
 - B. #8 AND LARGER SHALL BE STRANDED "THHN/THWN".
- 12. FLEXIBLE METAL CONDUIT INCLUDING LIQUIDTIGHT SHALL BE PERMITTED WHERE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND LOCAL CODE PROVISIONS. FLEXIBLE METAL CONDUIT SHALL CONTAIN A SEPARATE GROUNDING CONDUCTOR AND BE TERMINATED WITH APPROPRIATE FITTINGS.
- 13. THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO DESCRIBE THE WORK REQUIRED. THE ELECTRICAL CONTRACTOR SHALL ACCURATELY FIELD MEASURE AND LAY OUT HIS WORK TO EFFECTIVELY ACHIEVE A STRUCTURALLY COORDINATED INSTALLATION WITH THE BUILDING LAYOUT AND OTHER TRADES.
- 14. SEAL ALL BUILDING PENETRATIONS AND UNDERGROUND CONDUIT. CONFIRM PROPOSED EQUIPMENT LOCATIONS WITH THE OWNER.
- 15. DISCONNECTION, RECONNECTION, AND RELOCATION OF EQUIPMENT, IF REQUIRED SHALL BE COORDINATED SO AS TO CAUSE MINIMAL DISRUPTION OF SERVICE.



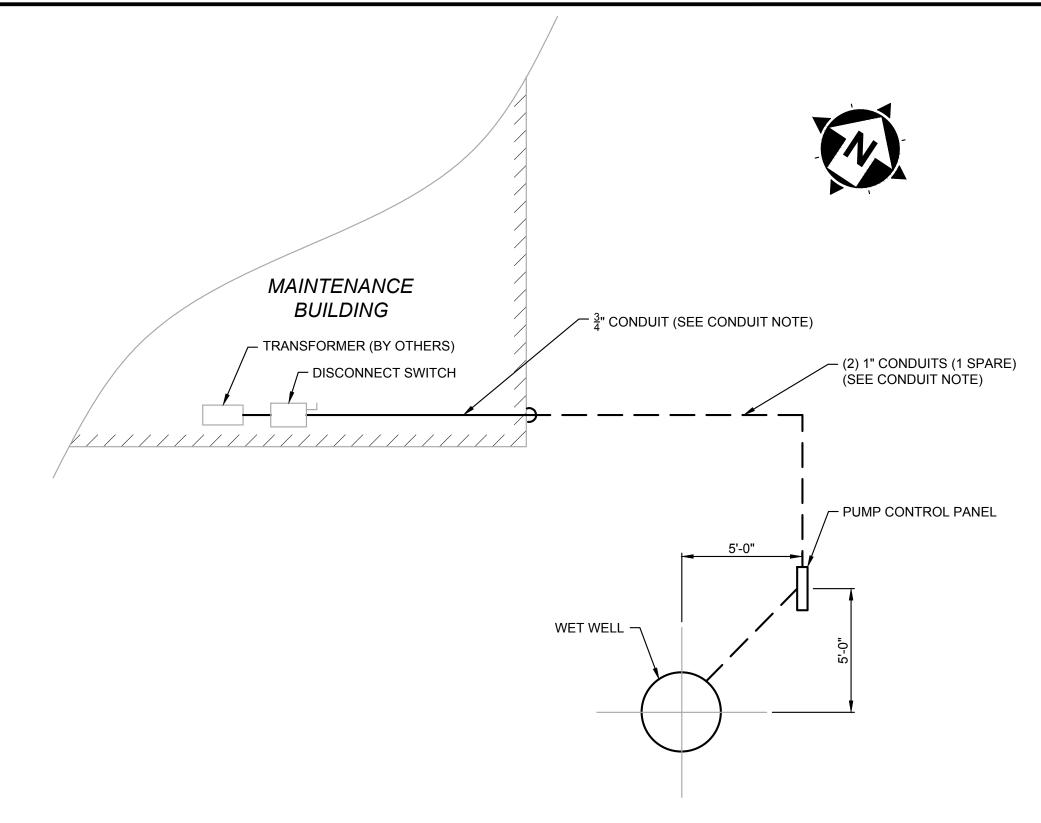
MOUNTING BOARD

SCALE: $\frac{1}{2}$ " = 1'-0"



ONE-LINE DIAGRAM

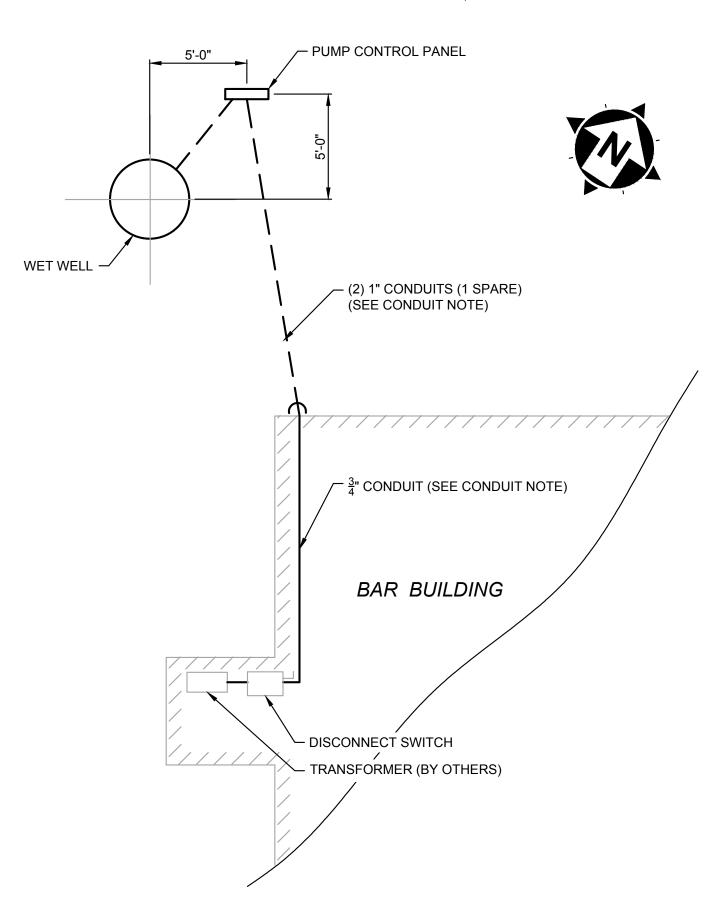
TYPICAL FOR PUMP STATION #1
AND PUMP STATION #2



MAINTENANCE BUILDING @ PUMP STATION No. 1

- SCHEMATIC -

CONDUIT NOTE:
CONTRACTOR TO ROUTE ELECTRICAL CONDUIT ALONG INTERIOR BUILDING WALLS AS DIRECTED BY THE MIDWEST MATERIALS OPERATIONS MANAGER, MARK CHABOT.



BAR BUILDING @ PUMP STATION No. 2

- SCHEMATIC -





	DEEDEN IOINT ECONOMIC DEVEL OBMENT DISTBICT		RE
	TENNI SOLIVI ECONOMIC DEVELOT MENT DISTINICI		REV. DESCRIPTION
1	MIDWEST MATERIALS SANITARY	ISSUE DATE:	
70	SEWAGE IMPROVEMENT	9/14/2018	
41	LAKE COUNTY PERRY, OHIO	SCALE: AS NOTED	
5	Political	DESIGNED BY: GBS	
	S HATER LA CIETCE	DRAWN BY: JFD	
	ELECTRICAL DETAILS	CHECKED BY: GBS	

DISCIPLINE

CIVIL

SHEET NAME

ELEC

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