

PUMP STATION MODIFICATIONS

THE FOLLOWING SEQUENCE OF TASKS ARE PROPOSED FOR TRANSITION FROM EXISTING TO PROPOSED CONFIGURATIONS AND AFFECT DORR DRIVE PUMP STATION AND FORCE MAIN OPERATIONS. THE CONTRACTOR SHALL UTILIZE THE PROPOSED SEQUENCE OF TASKS OR PROPOSE AN ALTERNATE PLAN OF ACTION ON THE PROPOSED CPM SCHEDULE AS OUTLINED IN SECTION 108.03.

1. INSTALL NEW FORCE MAIN FROM APPROXIMATELY STA. 501+00 ACROSS BRIDGE TO NEW SANITARY MANHOLE SMH 4. INSTALL AND RESTRAIN TEMPORARY CAPS AT EITHER END TO CONDUCT PRESSURE TESTING.
2. PROVIDE BYPASS PUMPING FROM EXISTING SANITARY MANHOLE IMMEDIATELY UPSTREAM FROM WETWELL (STA. 501+40 LT) AND DISCHARGE INTO NEW SMH 4 ON RIVER STREET.
3. DRAIN OLD FORCE MAIN FLUID INTO WETWELL AND PUMP WETWELL DRY. THE CITY WILL VACUUM SOLIDS FROM WETWELL IF PROVIDED WITH 2 WEEKS NOTICE. BYPASS PUMPING EFFORT AND WETWELL PUMPING SHALL BE CONSIDERED INCIDENTAL TO ITEM 628.42 TRANSFER TO NEW SYSTEM, SANITARY SEWER.
4. REMOVE OVERFLOW BYPASS PIPING. DOCUMENT PIPE SLOPE AND INVERTS.
5. COMPLETE REMAINING FORCE MAIN AND EMERGENCY BACKUP PORT PIPING. CONNECT TO EXISTING FORCE MAIN STUB AT PUMP STATION WALL.
6. REPLACE EXISTING GATE VALVES AND SWING CHECK VALVES INSIDE PUMP STATION AS SHOWN ON NEXT SHEET. CONTRACTOR TO VERIFY VALVE SIZES PRIOR TO ORDERING.
7. INSTALL OVERFLOW BYPASS PIPING UNDER ITEM 900.640 SPECIAL PROVISION (C-900 PVC, ALL INCLUSIVE) (12" SEWER OVERFLOW) WITH FLANGE AND INSTALL FLAPPER VALVE AND HEADWALL.
8. NEW INTERIOR DORR DRIVE PUMP STATION CONDUIT AND ELECTRICAL MODIFICATIONS CAN BE DONE INDEPENDENTLY OF THE ABOVE TASKS.

GENERAL ELECTRICAL WORK

1. NO INTERRUPTION OF SERVICE TO THE DORR DRIVE PUMP STATION BUILDING IS ALLOWED.
2. ALL WORK TO BE IN COMPLIANCE WITH THE 2014 EDITION OF NFPA 70 NATIONAL ELECTRICAL CODE.
3. SUPPLY SHOP DRAWINGS OF PROPOSED WORK IN SCHEMATIC AND ELEVATION VIEWS FOR OWNER AND ENGINEER REVIEWS. ALLOW TWO WEEKS FOR REVIEW.
4. ALL INTERIOR WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (PUMP STATION MODIFICATIONS).

SERVICE

1. INSTALL NEW 100 AMPERE 120/208 VOLT, 3-PHASE SERVICE FROM NEW SERVICE POLE. NEW SERVICE TO BE INSTALLED UNDERGROUND. COORDINATE LOCATION OF METER SOCKET WITH GREEN MOUNTAIN POWER. SEE UTILITY PLANS FOR NEW SERVICE POLE LOCATION AND CONDUIT LAYOUT.
2. PROVIDE EXTERIOR OVER CURRENT PROTECTION AT NEW SERVICE ENTRANCE LOCATION.
3. INSTALL NEW 100 AMPERE 120/208 VOLT, 3-PHASE FEEDER TO EXISTING INTERIOR DISCONNECT SWITCH LOCATION. PROVIDE UPGRADED NON-FUSED DISCONNECT SWITCH.
4. ENSURE PROPER GROUNDING FOR THE ABOVE WORK.
5. COORDINATE WITH GREEN MOUNTAIN POWER TO DE-ENERGIZE OLD SERVICE AND FOR ABANDONMENT OF OLD CONDUIT AND METER SOCKET.


BRANCH CIRCUITS

1. INSTALL PROPERLY SIZED VARIABLE FREQUENCY DRIVE (VFD) MOTOR STARTERS TO LIMIT MOTOR STARTING IN-RUSH CURRENT TO EACH PUMP CIRCUIT. ACCEPTABLE MODELS ARE ABB, ALLEN-BRADLEY, AND TOSHIBA.

MATERIALS

1. EXTERIOR CONDUIT TO BE RIGID STEEL OR SCH 80 PVC.
2. INTERIOR CONDUIT TO BE RIGID STEEL OR EMT.
3. ALL CONDUCTORS TO BE COPPER THHN OR THWN2.
4. SERVICE EQUIPMENT TO BE SQUARE D HEAVY-DUTY TYPE (OR APPROVED EQUAL).
5. ALL WALL PENETRATIONS TO BE MORTAR PATCHED AND PAINTED.
6. PUMP STATION INTERIOR TO BE BROOM CLEANED UPON PROJECT COMPLETION.

RECORD DRAWING WATER AND SEWER ELEMENTS
SOME OF THE CONTENT SHOWN ON THESE RECORD DRAWINGS HAS BEEN PREPARED BASED ON INFORMATION FURNISHED BY OTHERS. THE LOCATION OF ITEMS SHOWN WITHOUT LABELED DIMENSIONS SHALL BE CONSIDERED AS APPROXIMATE. MODIFICATIONS TO BRIDGE ELEMENTS ARE NOT ADDRESSED ON THESE RECORD PLANS. THE SITE WAS NOT RE-SURVEYED AFTER CONSTRUCTION, SO RECORD LOCATIONS, ELEVATIONS AND FINISH GRADES ARE APPROXIMATE AND SHALL BE CONSIDERED "SCHEMATIC." DETAILS AND CROSS SECTIONS MAY NOT REFLECT "AS-BUILT" CONDITIONS.

WATER AND SEWER PLANS	PROJECT NAME: RUTLAND CITY	FILE NAME: z94j092wtrswrdet.dgn	PLOT DATE: 6/17/2014
	PROJECT NUMBER: BRF 3000(16 101/100)	PROJECT LEADER: C. BEAN	DRAWN BY: W. GORDON
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