

MANHOLE REPLACEMENT SITE PLAN

GENERAL NOTES

THESE MECHANICAL CONSTRUCTION DOCUMENTS ARE BASED UPON DESIGN CRITERIA DERIVED FROM THE FOLLOWING HANDBOOKS, STANDARDS AND CODES.

ASIRAE: HANDBOOKS
ASIRAE: STANDARD 55
ASIRAE: STANDARD 52
ASIRAE: STANDARD 62
ASIRAE: LOAD CALCULATIONS MANUAL, 2ND EDITION
ASPE: DATA BOOK
BOOA: MATIONAL MECHANICAL CODE

ASHRAE: LOAD CALCULATIONS MANUAL, 2ND EDITION
ASPE: DATA BOOK
BOCA: NATIONAL MECHANICAL CODE
BOCA: NATIONAL PLUMBING CODE
BOCA: NATIONAL FLERIFICAL CODE
BOCA: NATIONAL FLERIFICAL CODE
SMACHA: HVAC SYSTEMS AND DUCT DESIGN, 3RD EDITION

INSTALLATIONS SHALL CONFORM WITH ALL FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, CODES, ETC., AND SAME ARE MADE A PART OF THESE CONTRACT DOCUMENTS, THE SAME AS IF REPEATED HEREIN. 3. CONTRACTOR SHALL INCLIDE IN BID ALL COSTS REQUIRED TO COMPLETELY AND PROPERLY INSTALL ALL WORK REQUIRED FOR PROJECT.

AND SMAR ARE MADE A PARK OF HESE CONTRACT DUCKNOWN, HE SHARE SIF REPORTEY INSTALL ALL WORK REQUIRED FOR PROJECT.

S. CONTRACTOR SHALL MAINTAIN ONE SET OF BLUPRINT DRAWINGS SHOWING EACH OF THE THREE (3) PREFABRICATED MANHOLES SHOWING INTERPRETY INSTALL ALL WORK REQUIRED FOR PROJECT.

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S. CONTRACTOR SHALL INCLIDE IN BID ALL COSTS FOR CUTTING AND PATCHING REQUIRED TO INSTALL NEW OR RELOVE DISTRIBUTION SYSTEM.

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AND REQUIRED REMOVAL, RELOCATION OR REPLACEMENT OF EXISTING COMDUIT, PIPMS, COMMUNICATION SYSTEM WIRING, ETC., RELATED TO THE COMPLETION OF THIS PROJECT SHALL BE INCLUDED IN THE CONTRACTORS BID AT NO ADDITIONAL COST TO THE OWNER.

S. CLEARANCES INDICATED ARE BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERY PIPMS SZE, INVESTED, AND PRE-PIPED MANHOLES INCLUDING COSTS AS REQUIRED TO COMPLETE WORK AS SHOWN OR INTENDED.

9. CONTRACTOR SHALL PIECLD VERIFY THE EXACT SIZE AND LOCATION OF ALL EXISTING WORK PRIOR TO COMPLETE WORK AS SHOWN OR INTENDED.

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10. DURING THE REMOVAL OF TEXES NOT INDICATED, CAUTION SHALL BE USED TO ELIMINATE DAMAGE TO EQUIPMENT HAVING SALVAGE VALUE. ALL REQUISABLE SALVAGED MATERIAL SHALL BE EMENDATED TO THE OWNER SHALL BE EXPENDED FOR THE CONTRACTOR. ALL OTHER SHALL BE EXPENDED FOR THE CONTRACTOR. ALL DETERD TO CONFIDENCE FOR THE CONTRACTOR. ALL OTHER SHALL BE EXPORT OF OWNER AND SHALL BE EXPRESED TO MISH REPORT TO CONSTRUCTION AND DEMOCRATED FOR THE CONTRACTOR. ALL OTHER SHALL BE EXPENDED TO WORK SHALL BE EXPENDED TO THE CONTRACTOR. ALL OTHER SHALL BE EXTENDED TOWNER SHALL BE EVENED TO CONTRACTION. THE CONTRACTOR WILL THEM SHALL BE HAVED OWNER SHALL BE BE RETIMED FOR HIS INSPECTION. ONLY THEMS S

PLAN NOTES

- The contractor shall remove and properly dispose of the existing three (3) concrete manholes destribed on the MI drawing as Manhole 1, 2 and 3. All existing internal components such as gate valves. Butterfly valves, ball valves, steam traps and accessories shall be salvaged and inspected by the owner's representance for proper disposition.
- INSPECTED BY THE OWNER'S REPRESENTATIVE FOR PROPER DISPOSITION.

 2. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) PERMA—PIPE (OR EQUAL), PRE—FABRICATED AND PIPED MAN—HOLES CANSTRUCTED OF 1/4" MIN. SMOOTH WALL BLACK STELL TO REPLACE MANHOLES 2 AND 3. THE OUTER SURFACE SHALL BECOATED WITH SPRAY APPLIED, 30 MIL MINIMAL INERTHANE. A PHENOLE PAINT SHALL BE USED TO PROTECT THE INNER SURFACES MANHOLES SHALL BE EQUIPPED WITH CONDUIT STUB-OUTS, END SEALS, STEEL LADDER, VENTS, SUMPS & LIFTING EYES. PROVIDE & INSTALL IN CONCRETE ANCHOR AS DIRECTED BY MANUFACTURER. PROVIDE & INSTALL STRAIGHT PIPMS IN PLACE OF MANHOLE NO. 1.

 3. THE CONTRACTOR SHALL PROVIDE THE MANHOLE MANUFACTURER WITH ENGINEERIND DRAWNINGS REFLECTING THE INTENT OF DESION AS REPRESENTED IN THE STEAM ISOLATION VIA VES, CONDENSATE TRAPS AND OTHER ACCESSORIES IN THE MANHOLES THE NITED AS SIMPLE GRADE LEVEL ACCESS TO ACTUATORS ISOLATING STEAM DISTRIBUTION AND ACCESS FOR MAINTENANCE.

 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MINERALY MORRISON STEAM WHICH ALLOWS SIMPLE GRADE LEVEL ACCESS TO ACTUATORS ISOLATING STEAM DISTRIBUTION AND ACCESS FOR MAINTENANCE.

 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MANHOLE MANUFACTURER WITH ALL INVEST

SMPLE GRADE LEVEL ACCESS TO ACTUATIONS STANDAMENT IN DISTRIBUTION AND ACCESS FOR MAINTENANCE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MAINTELE MANUFACTURES WITH ALL INVERT ELEVATIONS, PIPE SIZES AND ANGLES OF ENTRY AND ECRESS PROOK TO ORDERING THE MAINTELS. ON SITE VERRICATION OF DATA BY A FACTORY REPRESENTATIVE IS SUGGESTED. SUBMITTALS TO THE OWNER'S REPRESENTATIVE IS REQUIRED.

5. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH FOUR (4) WRENCHES CAPABLE OF TURNING THE GATE VALVE ACTUATORS AT THE GRADE LEVEL ACCESS.

6. EVENTION CHARACTER SHADOWLATE WICKLETS. MAINTELE 1: 53.792.M. MAINTELE 2: 56.7926.M. MAINTELE 7: 50.7926.M. MAINTELE 7: 50.79

6. EXISTING MANHOLE APPROXIMATE WEIGHTS: MANHOLE 1: 53,282# MANHOLE 2: 56,782# MANHOLE 3: 60,282#



ALVES L COMPLEX HA BOULEVARD EAST , WEST VIRGINIA 25305 **ISOLATION** CAPITOL (1900 KANAWHA B CHARLESTON, WI **STEAM**

REVISIONS		
DATE	NO.	

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REVISED	
DATE	SCALE
7/28/2011	NOTED
DRAWN BY	CHK. BY

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