

1.0 LAKE COUNTY NOTES

1.01 ALL SANITARY SEWER WORK COMPLETED MUST BE IN ACCORDANCE WITH THE CURRENT REGULATIONS AND RULES OF THE LAKE COUNTY DEPARTMENT OF UTILITIES (LCDU).

1.02 ONLY WATER/SEWER CONTRACTORS LICENSED BY THE LAKE COUNTY BOARD OF COMMISSIONERS MAY INSTALL SANITARY SEWERS.

1.03 CONSTRUCTION PLAN APPROVAL BY THE LCDU SHALL EXPIRE IF SANITARY SEWER CONSTRUCTION HAS NOT BEEN INITIATED BY A DEVELOPER WITHIN (12) MONTHS OF THE EFFECTIVE APPROVAL DATE AS SHOWN ON THE BLUEPRINT COPY ORIGINALLY SUBMITTED FOR APPROVAL (THIS IS NOT TO BE CONSTRUED AS THE DATE SHOWN ON THE ORIGINAL MYLAR TITLE SHEET).

1.04 ALL SANITARY SEWER CONNECTIONS SHALL BE A MINIMUM OF 6" DIAMETER AND SHALL HAVE PREMIUM JOINTS.

1.05 ALL SANITARY SEWERS MUST HAVE PREMIUM JOINTS, AND THE ENTIRE SYSTEM MUST PASS AN INFILTRATION TEST AND EXFILTRATION TEST AFTER CONSTRUCTION HAS BEEN COMPLETED. THE MAXIMUM ALLOWABLE RATE OF INFILTRATION AND EXFILTRATION SHALL BE 100 GALLONS PER INCH DIAMETER OF THE SEWER PER MILE PER DAY.

1.06 THE CONTRACTOR SHALL SCHEDULE INSPECTION AT LEAST 48 HOURS IN ADVANCE WITH THE LCDU.

1.07 NO SANITARY SEWER SERVICE CONNECTIONS TO ANY BUILDING SHALL BE PERMITTED PRIOR TO FINAL ACCEPTANCE BY THE LCDU WHICH SHALL INCLUDE APPROVED RECTIFICATION OF ALL PUNCH LIST ITEMS AND THE SUBMITTAL OF MYLAR AS-BUILT DRAWINGS.

1.08 ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

1.09 ALL SANITARY SEWER CONSTRUCTION AREAS MUST BE TO SUBGRADE PRIOR TO CONSTRUCTION AND CERTIFIED IN WRITING BY AN OHIO PROFESSIONAL SURVEYOR.

1.10 SHOP DRAWINGS ON ALL MATERIALS SHALL BE SUBMITTED TO THE LCDU FOR APPROVAL PRIOR TO INSTALLATION.

1.11 INSPECTION SERVICES SHALL BE PERFORMED BY THE LCDU. THE COST OF INSPECTION SHALL BE INCLUDED AS A PART OF THIS CONSTRUCTION PROJECT AT THE CURRENT BASE RATE AS ESTABLISHED BY THE LAKE COUNTY BOARD OF COMMISSIONERS PER 8 HOUR DAY. (SEE SECTION 7 FEE SCHEDULE OF L.C.D.U. RULES AND REGULATIONS) COST FOR INSPECTION SHALL BE THE SOLE RESPONSIBILITY OF THE LAKE COUNTY LICENSED WATER/SEWER CONTRACTOR.

1.12 FINAL TELEVISIONING OF A SANITARY SEWER SHALL BE PERFORMED BY A PACP CERTIFIED CREW IN ACCORDANCE WITH ALL APPLICABLE PROTOCOL OF THE NATIONAL ASSOCIATION OF SEWER SERVICE COMPANIES AND AS APPROVED BY THE LCDU. THE TELEVISION INSPECTION SHALL BE RECORDED TO A DVD IN MPEG FORMAT AS DIRECTED BY THE LCDU. THE LCDU SHALL RECEIVE VIDEO RECORDING OF ALL TELEVISION INSPECTIONS. THE CONTRACTOR SHALL PAY ALL COSTS FOR INSPECTION.

1.13 ALL PROPOSED SANITARY SEWERS SHALL BE LAID OUT BY A REGISTERED SURVEYOR WITH GRADE STAKES AT A MINIMUM OF EVERY 50' AND AT ALL FITTINGS AND A CUT SHEET PROVIDED PRIOR TO CONSTRUCTION.

1.14 THE CONTRACTOR/DEVELOPER SHALL SUBMIT A THREE YEAR MAINTENANCE BOND TO THE COMMISSIONERS BY THE DEVELOPER IN THE AMOUNT OF TEN PERCENT OF THE FINAL CONSTRUCTION COSTS AS CERTIFIED BY THE DEVELOPERS ENGINEER, FOR PUBLIC EXTENSION PROJECTS.

2.0 EXISTING UTILITIES

THE FOLLOWING IS BELIEVED TO BE THE LIST OF UTILITY OWNERS AND GOVERNING AUTHORITIES WITHIN THE LIMITS OF CONSTRUCTION:

Dominion Energy: Kevin Birt 320 Springside Dr Suite 320 Akron, Ohio 44333 33-664-2781 Relocation@dominionenergy.com William.d.snyder@dominionenergy.com	CEI: Art Stitt 7755 Auburn Road Painesville, Ohio 44077 astitt@firstenergycorp.com phone: 440-358-4993
LCDU: Sanitary and water Sarah Cerovski Administration Building 105 Main St Painesville, Oh 44077 440-350-2652 Sarah.cerovski@lakecountyoio.gov Attn: Randy Rothlisberger Randy.rothlisberger@lakecountyoio.gov	Level 3 communications: 4000 Chester Ave Cleveland, Ohio 44113 Doug Holloway 216-426-6010 Doug.holloway@level3.com
Sprint: Sprint Nextel Corporation Paul, Castelli, 2 Penn Center Blvd Pittsburg, PA 15276 412-960-4037 paul.castelli@sprint.com	Windstream: 100 Owen Brown St Hudson, Ohio 44236 Attn: Jon Hobby 440-285-5474 Jon.hobby@windstream.com
City of Painesville - Water Department 9565 Headlands Rd. Mentor, Ohio 44060 Attn: Bruce Hook Phone: (440) 392-9565 Cell: 440-823-1017 Email: bhook@painesville.com	Mike Alley Midwest Materials 3687 Shepard Rd Perry, OH 44081
City of Painesville 325 Richmond St. Painesville, OH 44077 Jeffrey McHugh Superintendent Phone: (440) 392-5939 Email: jmchugh@painesville.com	City of Painesville - Storm & Sanitary Sewer 96 Mentor Ave Painesville, OH 44077 Attn: Leanne Exum Phone: (440) 392-5926 Cell: (440) 497-8878 E-mail: lexum@painesville.com
Oil and Gas Producers (800) 925-0988	Ohio Utilities Protection Service (800) 362-2764
ODNR Division of Oil & Gas Resources 3575 Forest Lake Dr. Suite 150 Uniontown, OH 44685 Attn: Mr. Stephen Tompkins, Field Inspector	

2.01 THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE OWNER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

2.02 WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK. THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT BE THE RESPONSIBILITY OF THE OWNER.

DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK WITH THE UTILITY COMPANY'S SCHEDULE.

2.03 CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL THE EXISTING GAS, WATER, ELECTRIC, CABLE, TELEPHONE, OR OTHER UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF ANY PROPOSED IMPROVEMENT INDICATED ON THE PLANS. SHOULD A CONFLICT EXIST AT A UTILITY CROSSING, THE PROJECT ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

2.04 UTILITY LATERALS ARE SHOWN ON DRAWINGS WHEN AND WHERE INDICATED ON RECORD DRAWINGS. HOWEVER, THE RECORD DRAWINGS ARE ASSUMED TO BE INCOMPLETE. IN PREPARING THE BID AND EXECUTING THE WORK THE CONTRACTOR SHALL ASSUME ONE EACH LATERAL FOR WATER, SANITARY SEWER, STORM SEWER AND GAS AT EACH BUILDING ON MIDWEST MATERIALS PROPERTY.

2.05 BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE", AT 1-800-362-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE OWNER, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE OWNER, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.

2.06 THE LOCATION OF ALL KNOWN EXISTING UNDERGROUND UTILITY FACILITIES ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF THE FIELD SURVEY IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF THE EXISTING UTILITY OWNERS AND UTILITY PROTECTION SERVICE LISTED BELOW IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE.

3.0 SUBSOIL INVESTIGATION

3.01 NO SUBSURFACE INVESTIGATIONS HAVE BEEN PERFORMED FOR THIS PROJECT. AN ITEM HAS BEEN ADDED TO THE BID PROPOSAL FORM FOR SUBSURFACE INVESTIGATION WORK BY THE CONTRACTOR. THIS WORK IS INTENDED TO BE COMPLETED WITHIN 14 DAYS FOLLOWING THE CONTRACTORS RECEIPT OF THE NOTICE OF AWARD.

4.0 SOIL EROSION, SEDIMENT AND DUST CONTROL

4.01 THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH ODOT ITEM 207 AND AS REQUIRED BY THE LAKE COUNTY STORM WATER MANAGEMENT DEPARTMENT AND THE LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT.

4.02 THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY, SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE, AS DIRECTED BY THE ENGINEER, TO MAINTAIN ALL ROADWAYS BEING USED ALONG THE CONSTRUCTION SITE. PAYMENT FOR ALL SOIL EROSION, SEDIMENT AND DUST CONTROL MEASURES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER VARIOUS ITEMS.

5.0 MONUMENT PROTECTION

5.01 PROPERTY PINS AND MONUMENTS NEAR THE IMPROVEMENT, WHICH MAY BE DISTURBED BY THE CONTRACTOR, SHALL BE REFERENCED BY A PROFESSIONAL SURVEYOR. SO THEY CAN BE REPLACED IN THE EVENT THAT THEY ARE DISTURBED DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL PINS, MONUMENTS AND REFERENCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF LOCATING AND REFERENCING AND REPLACING THE PROPERTY PINS AND MONUMENTS AS DIRECTED BY THE ENGINEERS.

6.0 RESTORATION

6.01 THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED BY THE END OF THE SAME WORK DAY. THE COST FOR THIS WORK SHALL BE COVERED UNDER THE COST PER LINEAL FOOT OF SEWER AND FORCE MAIN.

6.02 ALL EXISTING STORM AND SANITARY SEWER FACILITIES, INCLUDING TILE, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR RECONNECTED TO THE EXISTING OR PROPOSED SYSTEM AS DIRECTED BY THE ENGINEER.

6.03 RESTORATION SHALL INCLUDE SEEDING AND MULCHING OF DISTURBED AREAS, RESTORATION OF EXISTING DRIVES AND FINAL CLEAN UP.

7.0 MATERIALS STORAGE

7.01 ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE STORED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS, HYDRANTS UNDER PRESSURE, VALVE PIT COVERS, VALVE BOXES, CURB STOP BOXES OR OTHER UTILITY CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS BEING COMPLETED. GUTTERS SHALL BE KEPT CLEAR AND MAINTAINED AT ALL TIMES OR OTHER SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE. NATURAL DRAINAGE COURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF WORK, ALL MATERIALS SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER.

7.02 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL TREES, STUMPS, BROKEN PAVEMENT AND ALL CONSTRUCTION DEBRIS OF WHATEVER NATURE OUTSIDE THE WORK LIMITS OF THE PROJECT.

8.0 PROJECT LIMITS

8.01 CONSTRUCTION LIMITS FOR THIS PROJECT ARE THE SEWER EASEMENTS ON THE GOSOL PROPERTY, LIMITS DEFINED BY THE NS RAILROAD UTILITY OCCUPANCY PERMIT AND PUBLIC RIGHTS-OF-WAY. CONSTRUCTION LIMITS WITH THE NORSHAR PROPERTIES (MIDWEST MATERIALS) ARE LIMITED TO THE MINIMUM SPACE REQUIRED TO INSTALL THE IMPROVEMENTS. THE CONTRACTOR SHALL SUBMIT A DETAILED DRAWING THAT SHOWS HIS PROPOSED WORKING LIMITS, LAYDOWN AREA(S), TRAILER LOCATION AND OTHER AREA(S) OF IMPACT ON THE MIDWEST MATERIALS SITE. THE CONSTRUCTION LIMITS ON MIDWEST MATERIALS MAY BE SUBJECT TO APPROVAL BY THE PROPERTY OWNER.

9.0 CLEARING

9.01 AREAS WITHIN THE LIMITS OF PROPOSED EMBANKMENTS AND ACCESS ROADS SHALL BE GRUBBED. ALL TREE STUMPS WITHIN THESE LIMITS SHALL BE GROUND DOWN TO 18" BELOW FINAL GRADE SURFACE ELEVATIONS OR 18" BELOW THE EMBANKMENT. TREES, ROOTS OR OTHER OBSTRUCTIONS THAT INTERFERE WITH THE CONSTRUCTION OF THE NEW SEWER OR SEWER TRENCH PILING MUST BE REMOVED COMPLETELY.

10.0 PAVEMENT REPLACEMENT

10.1 PAVEMENTS AND SIDEWALKS ARE TO BE REPLACED IN-KIND, IN NO CASE SHALL THE THICKNESS OF THE REPLACEMENT SECTION BE LESS THAN THE ORIGINAL PAVEMENT THICKNESS.

10.2 ALL PAVEMENT AND SIDEWALKS DAMAGED OR REMOVED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN ACCORDANCE WITH DETAILS SHOWN ON SHEET 21.

11.0 HAUL ROADS

11.01 THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL ROADWAYS CLEAN OF ALL DEBRIS ASSOCIATED WITH THESE IMPROVEMENTS.

SURVEY REFERENCES

11.01 PROJECT CONTROL AND MANHOLE COORDINATES ARE SHOWN ON THE PLANS.

12.0 TRAFFIC CONTROL

12.01 IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN PEDESTRIAN AND LOCAL ROADWAY ACCESS AT ALL TIMES. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY STONE DRIVES WITH A MATERIAL WHICH IS APPROVED IN WRITING BY THE ENGINEER. THE CONTRACTOR SHALL INSTALL TEMPORARY TRENCH TOPPING (SEE DETAIL) IN ALL ROADS AS PART OF THE BACKFILLING OPERATION. THE TEMPORARY PAVEMENT AND STONE DRIVES SHALL BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER. COST FOR ALL MATERIALS, LABOR AND EQUIPMENT FOR CONSTRUCTION MAINTENANCE AND SUBSEQUENT REMOVAL SHALL BE INCLUDED IN THE UNIT PRICES FOR ALL ITEMS OF THE PROPOSAL.

12.02 AS A MINIMUM THE CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN FOR REVIEW AND ACCEPTANCE BY THE OWNER PRIOR TO BEGINNING WORK.

12.03 ACCESS MUST BE MAINTAINED FOR RESIDENCES, EMERGENCY VEHICLES AND PEDESTRIANS, INCLUDING PERSONS WITH DISABILITIES, AT ALL TIMES.

12.04 AT ALL EXCAVATION LOCATIONS THE CONTRACTOR SHALL PROVIDE SUITABLE FLASHERS, BARRICADES, AND TRAFFIC CONTROL DEVICES AS DEEMED NECESSARY BY THE ENGINEER AND IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

12.05 THE CONTRACTOR SHALL PHASE CONSTRUCTION SUCH THAT AT A MINIMUM, ONE ACCESS LANE IS AVAILABLE FOR LOCAL VEHICULAR TRAFFIC. THE PAVEMENT SURFACE SHALL HAVE A UNIFORM SURFACE TO THE SATISFACTION OF THE OWNER. THE SAME ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS.

13.0 DOMINION EAST OHIO GAS

13.01 IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF DOMINION'S PIPELINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P (SAFE EXCAVATION & SHORING). ONE-FOOT MINIMUM VERTICAL AND HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN DOMINION EAST OHIO'S (DEO) EXISTING PIPELINE(S) AND ALL OTHER IMPROVEMENTS. EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY DEO FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES OR DEVICES, VALVE BOXES, ETC.). DEO FACILITIES MUST BE PROTECTED WITH A TARP DURING BRIDGE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL DEO EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND IN WORKING ORDER. THE CROSSING OF DEO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND THE DEO FACILITY. PLEASE CONTACT DOMINION'S CORROSION DEPARTMENT: DAVE CUTLIP (330-323-0064), RICK McDONALD (330-575-0335), OR AL HUMRICHOUSER (330-323-3119).

13.02 DEO = THE DOMINION EAST OHIO GAS COMPANY, DBA DOMINION EAST OHIO, 1-800-362-7557.

14.0 SEWER AND FORCE MAIN ALIGNMENT THROUGH MIDWEST MATERIALS PROPERTIES

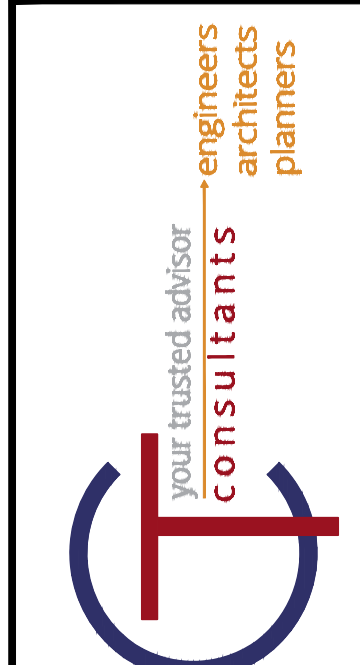
14.1 THE SITE PLANS FOR SHEETS 4, 5 AND 6 UTILIZE MAPPING FROM THE LAKE COUNTY DEPARTMENT OF UTILITIES GIS DATA THAT MAY NOT BE ACCURATE.

14.2 FOR THE PURPOSES OF THIS PROJECT, THE CONTRACTOR WILL BE REQUIRED TO CONDUCT HIS OWN SURVEY THROUGH THE MIDWEST MATERIALS SITE ALONG THE CENTERLINE OF THE PROPOSED 8" SANITARY SEWER AND 2" FORCE MAIN ALIGNMENT THAT HAS BEEN IDENTIFIED BY UTILIZING OFFSETS FROM BUILDINGS, STRUCTURES AND/OR OTHER MEANS ON THE PLANS.

14.3 THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SUFFICIENT DATA TO TIE THE LOCATION OF PROPOSED STRUCTURES INTO THE ESTABLISHED COORDINATE SYSTEM UTILIZED ON THE EAST END OF THE PROJECT AND PROVIDE ELEVATIONS OF THE SAME. NO CONSTRUCTION SHALL TAKE PLACE UNTIL THE ENGINEER HAS HAD THE OPPORTUNITY TO REVIEW AND MAKE MINOR ADJUSTMENTS TO THE ALIGNMENT (IF NECESSARY).

14.1 THE CONTRACTOR SHOULD ASSUME THAT THERE WILL NEED TO BE SOME ADJUSTMENTS TO THE SEWER AND FORCE MAIN ALIGNMENT, BOTH VERTICAL AND HORIZONTAL, IN ORDER TO INSTALL THE IMPROVEMENTS AS INTENDED. THE DESIGN PARAMETERS INCLUDE:

- a. MINIMUM DEPTH (RIM TO INVERT) OF 8" OUTLET SEWER AT SAN. MH NO. 1 OF 6'.
- b. MINIMUM DEPTH (RIM TO INVERT) OF 8" OUTLET SEWER AT SAN. MH NO. 2 OF 11'.
- c. MINIMUM DEPTH (RIM TO BOTTOM OF WET WELL) OF P.S. OF 19'.
- d. MINIMUM COVER OVER FORCE MAIN (FINISHED GROUND GRADE TO CROWN OF PIPE) OF 5'.



REV. NO.	DESCRIPTION	DATE	REVISIONS			
			ISSUE DATE:	SCALE:	AS NOTED:	CHECKED BY:
			9/14/2018			

PERRY JOINT ECONOMIC DEVELOPMENT DISTRICT  
 MIDWEST MATERIALS SANITARY  
 SEWAGE IMPROVEMENT  
 LAKE COUNTY  
 PERRY, OHIO  
 GN  
 GENERAL NOTES

PROJECT NO.	
170415	
DISCIPLINE	
CIVIL	
SHEET NAME	
GN	
SHEET	OF
02	22