

A. ALTMAN SANITARY LATERAL

CITY OF MASSILLON, COUNTY OF STARK AND STATE OF OHIO

IMPROVEMENT	PLAN SHEET INDEX
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SUBMITTAL INDEX

9/21/2018

SUBMITTAL 1 (CITY OF MASSILLON)

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Fire Hydrant

Storm Manhole

Water Gate Valve

Water Service Stop

OWNER

A. ALTMAN COMPANY 2555 34TH STREET NE CANTON, OHIO 44705

CONTACT: LOUIS ALTMAN 330-456-0777

DESIGN ENGINEER

TGC ENGINEERING, LLC 1310 SHARON COPLEY ROAD SHARON CENTER, OHIO 44274

CONTACT: CHRIS SCHMIDT, P.E. 330-590-8004

CONTRACTOR

IMPROVEMENT PLANS FOR

LOCATION MAP (N.T.S.)

LATITUDE: N 040°47'59.4"

LONGITUDE: W 081°30'34.8"

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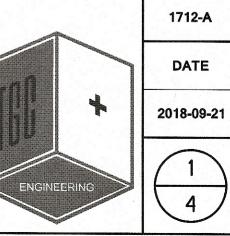
APPROVALS

OHIO EPA NPDES (#) PERMIT LETTER DATED:

CHRISTOPHER M. SCHMIDT, P.E. 80749







PROJECT NUMBER

TO BE DETERMINED

Standard Sanitary Sewer Notes

- 1. Sanitary sewers and appurtenances shall be constructed according to Stark County Sanitary Engineering Department specifications and details in effect at time of construction.
- 2. Roof drains, foundation drains and other clean water connections to the sanitary sewer are prohibited.
- 3. Prior to start of construction, the contractor shall schedule a pre-construction meeting with the construction engineer of the Stark County Sanitary Engineering Department (330/451-2310). A minimum of 72 hours notice is required to schedule this meeting.
- 4. The contractor shall notify all property owners along the route of the sanitary sewer at least three (3) days prior to start of construction
- 5. The contractor shall alert the Utilities Protection Service at least 48 hours prior to start of construction.
- 6. Approval by the Stark County Sanitary Engineering Department constitutes neither expressed nor implied warranties as to fitness, accuracy, or sufficiency of plans, designs or specifications.
- 7. The contractor shall be responsible for properly maintaining existing sanitary flow during the construction and testing of the proposed improvements. The contractor's methods for maintaining flow must be approved by the Stark County Sanitary Engineering Department at the pre-construction meeting.
- 8. All rough grading to within six (6) inches of finished grade shall be completed within the rights-of-way and easements prior to sanitary sewer construction.
- 9. Bulkheads shall be erected in existing manholes where taps for new mainline sewers are made and shall remain in place until the new sewers are complete, tested and approved. In cases where a bulkhead would interrupt the flow from existing service connections, the bulkhead shall be placed in the first new manhole upstream of the existing manhole.
- 10. Minimum vertical clearance between sanitary sewer and waterline shall be 18 inches. Minimum horizontal separation shall be 10 ft.
- 11. Sanitary sewer service laterals shall be 6-inch diameter and be laid at no less than 1.0 % grade.
- 12. No changes to sanitary sewer service lateral locations shall be made without the approval of the Stark County Sanitary Engineer.
- 13. For new subdivision construction, sewer service laterals shall extend 10 ft. into each lot when the main sewer is in a street right-of-way, and shall terminate at the easement line when the main sewer is in an easement. For other sewer extensions, sewer service laterals shall terminate at the right-of-way line or the easement line, whichever is applicable.
- 14. Service stacks shall be ductile iron pipe regardless of main sewer material. A cast iron tee shall be installed in the main sewer. Concrete encasement will not be required.
- 15. Minimum cover over sanitary sewer shall be 4 ft.
- 16. Acceptable sanitary sewer pipe materials are as follows:

Pipe Joints Installation

PVC Smooth Exterior: ASTM D-3034 ASTM D-3212 ASTM D-2321

PVC: ASTM F-794 ASTM D-3212 ASTM D-2321

Closed Profile (Dual Wall)
Corrugated (Dual Wall)

Ribbed (Open Profile)

PVC Corrugated Exterior: ASTM F-949 ASTM D-3212 ASTM D-2321

VCP Extra Strength: ASTM C-700 ASTM C-425 ASTM C-12 DCIP (Class 52): AWWA C-151 AWWA C-110/C-111 AWWA C-151

ABS Composite: ASTM D-2680 ASTM D-2235 ASTM D-2680

PVC Composite: ASTM D-2680 ASTM D-2564 ASTM D-2680

- 17. All sanitary sewers, 8-inch diameter and larger, must pass an internal television inspection. The contractor shall provide complete internal inspection videotape to the Stark County Sanitary Engineering Department. The videotaping procedure shall be in accordance with Stark County Sanitary Engineering Department specifications.
- 18. A deflection test shall be required for all flexible pipe of 8-inch diameter and larger. The test shall be conducted at least 30 days after completion of backfill and shall be in accordance with Stark County Sanitary Engineering Department specifications. The allowable deflection rate shall not exceed five (5%) percent. Testing shall be in accordance with
- 19. All sanitary sewers must pass a low pressure air test, which shall be conducted in accordance with Stark County Sanitary Engineering Department specifications. The maximum allowable test leakage shall be 100 gal/inch of diameter/mile/day. This test shall conform to ASTM F-1417.
- Manhole construction shall meet the requirements of ASTM C-478 and C-443. All manholes shall be air/vacuum tested in accordance with and meet all the requirements of ASTM C1244.
- 21. Connections to existing manholes shall be core drilled, with benches and channels formed and repaired as necessary.
- Any manhole drop attachments shall be "outside" type.Manhole top of casting elevations may require adjustment during site grading. Manhole covers may not be buried. Upon
- completion of construction and restoration, all manholes, proposed and existing, shall be in conformance in all respects with Stark County Sanitary Engineering Department specifications and details.
- 24. All sanitary sewer trenches beneath proposed or existing pavement shall be compacted in Lifts, in a manner, and with material as specified by the Stark County Sanitary Engineering Department and all applicable O.D.O.T. specifications.

GENERAL NOTES

- 1. THIS PLAN HAS BEEN BASED UPON DIGITAL COUNTY ORTHOPHOTO INFORMATION AND TOPOGRAPHIC AND BOUNDARY SURVEY WORK PERFORMED BY TGC ENGINEERING, LLC.
- 2. THE CONTRACTOR SHALL KEEP ALL EXISTING STREETS CLEAN OF ALL SOIL, DIRT, MUD, AND DEBRIS. THE CONTRACTOR SHALL EXERCISE DILIGENT CARE TO PROTECT ALL TREES, SHRUBS, AND PLANTS NOT DESIGNATED FOR REMOVAL. CONTRACTOR SHALL REPLACE, TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE OWNER, ANY TREES, SHRUBS, PLANTS, AND OTHER OBJECTS REMOVED, DESTROYED, DISFIGURED, OR DAMAGED DUE TO CONTRACTOR'S NEGLIGENCE.
- 3. CONSTRUCTION WORK SHALL NOT COMMENCE UNTIL A PRECONSTRUCTION CONFERENCE HAS BEEN HELD AT THE DIRECTION OF THE CITY OF MASSILLON ENGINEER.
- 4. MATERIAL AND METHODS OF CONSTRUCTION AND MACHINERY USED SHALL BE AS INDICATED IN THESE CONSTRUCTION PLANS AND IN ACCORDANCE WITH THE CITY OF MASSILLON ENGINEER. ALL OTHER MATERIALS AND METHODS OF CONSTRUCTION AND MACHINERY USED SHALL MEET THE REQUIREMENTS OF THE 2010 EDITION OF THE ODOT "CONSTRUCTION AND MATERIAL SPECIFICATIONS."
- 5. ALL WORK PERFORMED WITHIN THE RIGHT-OF-WAY MUST BE INSPECTED AND APPROVED BY THE CITY OF MASSILLON ENGINEER OR HIS DULY APPOINTED AGENTS.
- 6. ALL TESTING AND INSPECTION FEES ARE THE RESPONSIBILITY OF THE DEVELOPER (OWNER).
- 7. TRENCHES UNDER AND/OR WITHIN THREE FEET OF EXISTING OR PROPOSED PAVEMENT AREAS SHALL BE BACKFILLED WITH NO. 57 LIMESTONE TO WITHIN 12 INCHES OF EXISTING GRADE AND TOPPED WITH 12 INCHES OF NO. 304 LIMESTONE.
- 8. NO. 304 LIMESTONE BACKFILL SHALL BE USED WHEREVER SANITARY, STORM AND WATER LINES INTERSECT.
- 9. WARNING DEVICES (SIGNS, FLASHERS, BARRICADES, ETC.) SHALL BE PROVIDED (AT THE DEVELOPER'S EXPENSE) AT THE INTERSECTION(S) OF EXISTING ROADS AND THE ROAD(S) UNDER CONSTRUCTION.
- 10. EXISTING DRIVES, UTILITIES, AND APPURTENANCES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE DEVELOPER/CONTRACTOR'S EXPENSE AS DIRECTED BY THE CITY OF MASSILLON ENGINEER.
- 11. THE DEVELOPER AND/OR CONTRACTOR SHALL OBTAIN ALL NECESSARY COUNTY, STATE, AND FEDERAL PERMITS, INCLUDING BUT NOT LIMITED TO HIGHWAY USE, STORMWATER MANAGEMENT, HAULING, ROAD OPENING, RIGHT-OF-WAY, ETC.
- 12. THE CONTRACTOR SHALL CONTACT THE GOVERNING AUTHORITY FOR REQUIRED INSPECTIONS.
- 13. UPON COMPLETION OF THE IMPROVEMENTS, THE SUBDIVIDER SHALL REQUEST, IN WRITING, A FINAL INSPECTION BY THE CITY OF MASSILLON ENGINEERS OFFICE, AS REQUIRED UNDER SECTION 711-091 OF THE OHIO REVISED CODE.
- 14. VISIBLE ABOVE-GROUND UTILITIES ON SITE HAVE BEEN SHOWN ON THE PLANS. THE CONTRACTOR IS TO FIELD-VERIFY ELEVATIONS, QUANTITIES AND LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 15. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOW ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL RUBBISH, TRASH, DEBRIS, AND ORGANIC MATERIAL IN A LAWFUL MANNER.
- 17. ALL UNDERGROUND LINES ENCOUNTERED BY CONSTRUCTION ARE TO BE COMPLETELY RESTORED AT THE EXPENSE OF THE CONTRACTOR.
- 18. COST OF ANY SHEETING, DE-WATERING OR FOUNDATIONS NECESSARY FOR INSTALLATION SHALL BE INCLUDED IN PRICE BID PER LINEAR FOOT OF RESPECTIVE ITEMS.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE PROPOSED CONSTRUCTION.
- 20. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS (INCLUDING BUT NOT LIMITED TO CLEARING/GRUBBING, EARTHWORK, BUILDING CONSTRUCTION, STREET OPENINGS AND UTILITY CONNECTIONS) REQUIRED BY LOCAL AND STATE AGENCIES PRIOR TO CONSTRUCTION.
- 21. ANY APPARENT DISCREPANCIES OR QUESTIONS IN CONTRACT DOCUMENTS ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVES IMMEDIATELY.
- 22. REFER TO "DETAILS & SPECIFICATIONS" PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
- 23. TRAFFIC SHALL BE MAINTAINED ON ALL ADJOINING STREETS AT ALL TIMES. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 24. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, PROCEDURES, TECHNIQUES OR SEQUENCES OF CONSTRUCTION NOT SPECIFIED HEREIN, NOR FOR THE SAFETY ON THE JOB SITE, NOR SHALL THE DESIGN ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS
- 25. A SUBSURFACE DRAINAGE SYSTEM MAY EXISTING ON THIS SITE. THE SYSTEM AND/OR OUTLET IF LOCATED ON THIS PROPERTY MUST BE MAINTAINED AT ALL TIMES.
- 26. ANY MODIFICATIONS TO THE WORK SHOWN ON THE PLANS MUST HAVE PRIOR WRITTEN APPROVAL FROM THE OWNER AND REVIEW AGENCIES.
- 27. REFER TO CITY OF MASSILLON STANDARDS FOR STANDARD DETAILS AND SPECIFICATIONS.

GENERAL NOTES: SITE PREPARATION

- WITHIN THE SUBJECT PROPERTY, THE INTENT IS TO HAVE A CLEAN, CLEAR SITE, FREE OF ALL EXISTING ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW PROJECT.
- 2. WHERE EXISTING ITEMS ARE SHOWN TO REMAIN, CARE SHOULD BE TAKEN TO INSURE PROTECTION OF THAT ITEM FROM DAMAGE. ANY ITEM DISTURBED BY CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING AND TO THE SATISFACTION OF THE OWNER OF THE ITEM.
- 3. UTILITIES, SIDEWALKS, DRIVE APRONS, ETC WITHIN THE RIGHT-OF-WAY ARE TO REMAIN UNLESS NOTED OTHERWISE.
- 4. REMOVE SOILS AS NECESSARY TO COMPLETE PROPOSED CONSTRUCTION.

GENERAL NOTES: UTILITIES

- 1. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 OF THE OHIO REVISED CODE.
- 2. THE OHIO UTILITIES PROTECTION SERVICE (OUPS, 1-800-362-2764) SHALL BE CONTACTED BY THE DEVELOPER/CONTRACTOR AT LEAST TWO WORKING DAYS IN ADVANCE OF WORK TO BE DONE NEAR ANY EXISTING UTILITY.
- 3. EXISTING UTILITIES, INCLUDING PRIVATE OIL/GAS LINES, ENCOUNTERED DURING CONSTRUCTION SHALL BE LOWERED AS NECESSARY TO A MINIMUM OF THREE FEET BELOW FINISHED GRADE.
- 4. EXCAVATIONS SHALL BE SHORED OR SLOPED AS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS DURING CONSTRUCTION. IN DEEP TRENCHES OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, A TRENCH BOX OR OTHER METHOD OF EMBANKMENT STABILIZATION WILL BE REQUIRED.
- UNDERGROUND UTILITY CONSTRUCTION PRACTICES ARE TO CONFORM TO THE SAFETY REQUIREMENTS OF OSHA.
- THE CONTRACTOR SHALL SHOW ALL MODIFIED PIPING, CONDUIT RUNS, UTILITIES AND ANY MODIFICATIONS MADE TO THE ORIGINAL DRAWINGS ON AS-BUILT PRINTS AND TURN OVER TO OWNERS REPRESENTATIVE UPON COMPLETION OF THE JOB.
- 7. ALL SEWER RUN DISTANCE GIVEN ARE FROM CENTERLINE TO CENTERLINE OF MANHOLES. ALL PIPE INVERT ELEVATIONS GIVEN AT MANHOLES ARE AT CENTERLINE OF MANHOLE. SEWER GRADES ARE ESTABLISHED FROM CENTERLINE OF MANHOLE AND CARRIED THROUGH MANHOLE INVERT TO ASSURE FLOW THROUGH MANHOLE.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES AND STRUCTURES DESIGNATED TO REMAIN UNTIL ALL CONSTRUCTION IS COMPLETE. ANY ITEM DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- EXISTING UTILITY SERVICES NOT BEING SAVED SHALL BE CUT AND CAPPED AT THE PROPERTY LIMITS. ALL ON-SITE PIPING SHALL BE REMOVED AND BE PROPERLY BACKFILLED. THE DEMOLITION CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR TERMINATION OF SERVICE PRIOR TO DEMOLITION.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE, PROTECTION, AND CONTINUATION OF SERVICE FOR ALL UTILITIES SERVICING ADJOINING AREAS.
- 1. PROPOSED MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE FRAMES AND COVERS, CATCH BASIN GRATES, VALVE BOXES, ETC., TO BE RAISED OR LOWERED AS NECESSARY, TO PROPOSED FINISHED GRADE, FLUSH WITH THE ADJACENT GRADE.
- 12. UTILITIES PROPOSED UNDER NEW PAVEMENT SHALL EITHER BE BORED OR INSTALLED IN CONDUITS PLACED PRIOR TO PAVEMENT INSTALLATION. OPEN CUTTING FOR UTILITY CROSSINGS WILL NOT BE PERMITTED ONCE PAVEMENT CONSTRUCTION IN UNDERWAY.
- 13. ALL TRENCHES AND/ OR HOLES 2' OR DEEPER SHALL BE BACKFILLED OR PLATED EVERY DAY.

LISTED BELOW ARE ALL THE KNOWN UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS, TOGETHER WITH THEIR RESPECTIVE OWNERS:

WATER LINES: AQUA OHIO

SANITARY LINES: CITY OF MASSILLON (330) 830-1704

ELECTRIC: FIRST ENERGY (800) 362-2764

TELEPHONE LINES: MCTV (330) 833-4134

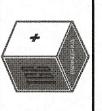
GAS LINES: DOMINION EAST OHIO (800) 362-7557

DRAWN BY: | LTD | 2018-08-21

CHECKED BY: CMS | 2018-08-21

IEETING, LLC
OPLEY ROAD, P.O. BOX
R, OHIO 44274

TGC Engineering
1310 SHARON COPLEY ROA
SHARON-CENTER, OHIO 443

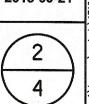


PROJECT NUMBER 1712-A DATE

SANITARY

NOTES





GENERAL UTILITY NOTES: REFERENCE GENERAL NOTES AND DETAILS & SPECIFICATIONS FOR ADDITIONAL INFORMATION. . ALL SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF MASSILLON AND THE STATE . THE CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING STUB-OUTS, INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE . ALL SEWERS, WATER LINES AND APPURTENANCES THERETO SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH - 12" RCP @ 7.33% CURRENT STANDARDS AND SPECIFICATIONS ESTABLISHED BY THE UTILITY OWNER AND UNDER ITS INSPECTION. . PROPER COORDINATION WITH THE RESPECTIVE UTILITY Manhole No. 3 (MH-1.2) COMPANIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY COMPANY AND LOCAL GOVERNING RIM EL. = 1020.80催 AGENCIES STANDARDS FOR MATERIALS AND CONSTRUCTION E 24" (E) = 1013.26 LINCOLN WAY E 100' 6. REFER TO "DETAILS AND SPECIFICATIONS" PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES. . THE CONTRACTOR SHALL COORDINATE SITE UTILITY INSTALLATION WITH ELECTRICAL AND TELEPHONE INSTALLATION, ETC. AND UTILITY COMPANIES. 8. THE CONTRACTOR SHALL COMPACT PIPE BACKFILL ACCORDING TO THE "TYPICAL FLEXIBLE PIPE TRENCH SECTION" DETAIL, SHEET C6.0. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED IN AREAS OF ROCK EXCAVATION. . GENERAL SANITARY SEWERS NOTES: SANITARY LATERAL CONNECTIONS TO THE MAIN LINE SEWER SHALL BE MADE WITH STANDARD WYES COMPATIBLE WITH THE MATERIAL OF THE SEWER MAIN. INV=1013.83 2. ALL SANITARY LATERALS MUST MAINTAIN A MINIMUM GRADE OF CONTRACTOR TO FIELD LOCATE & VERIFY LINE ELEVATION AND DEPTH 3. ALL SEWER SERVICE LATERALS SHALL BE PVC, ASTM D-3034, SDR 35. WITH RUBBER GASKET JOINTS IN ACCORDANCE WITH ASTM D3212. WHERE A DIFFERENT TYPE OF MATERIAL IS USED FOR THE SEWER MAIN, AN ACCEPTABLE ADAPTER TO THE PVC 8" X 8" WYE INTO LINE LATERAL MUST BE PROVIDED. . ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER INV=1014.00 CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED. 5. JOINT SEAL BETWEEN MANHOLE AND SANITARY SEWER SHALL BE RESILIENT AND FLEXIBLE GASKET JOINT PER ASTM443. STM CLEANOUT 6. ALL SANITARY SEWER WORK COMPLETED MUST BE IN ACCORDANCE WITH THE CURRENT REGULATIONS AND RULES OF THE CITY OF MASSILLON. A1) INV=1017.49 -. CLEANOUTS FOR SANITARY SEWER ARE TO BE LOCATED WITHIN 10'-0" OF THE BUILDING. PROVIDE CLEANOUTS AT EACH 45° 24' - 6" PVC @ 1.00%-A6 INV=1017.73 8. ALL SANITARY SEWERS MUST HAVE PREMIUM JOINTS. NEW BUILDING OVERHANG B. GENERAL STORM SEWERS NOTES: STM CLEANOUT STORM SEWERS DESIGNATED "PVC" SHALL BE SDR 35, WITH RUBBER GASKET JOINTS. NEW BUILDING OVERHANG PROVIDE CLEANOUTS FOR STORM SEWERS AS INDICATED ON INSTALL NEW ROOF DRAIN (A) KEYED NOTES: INSTALL CLEANOUT. REFERENCE "SANITARY CLEANOUT DETAIL", SHEET 4. A6 INV=1018.76 (A2) WYE INTO EXISTING SANITARY LINE AT LISTED INVERT. NEW BUILDING OVERHANG EXISTING SANITARY SEWER AND MANHOLES FROM MAIN, NOT INCLUDED IN THIS SCOPE OF WORK. (A1) INV=1017.81 A6 INV=1019.36 — ROUTE SANITARY LATERAL FROM MANHOLE TO NEW GREASE INTERCEPTOR NEAR BUILDING. 6' - 6" PVC @ 1.00%-A5 SANITARY LATERALS NOT INCLUDED IN THIS SCOPE OF WORK. - 20' - 6" PVC @ 1.00% AT A6 PROPOSED WYE CONNECTION (FROM WYE CONNECTION) STM CLEANOUT -FUTURE: LATERAL LINE TO BE CONTINUED INSIDE BUILDING, WORK END 1 20' - 6" PVC @ 1.00% 10' - 8" PVC SDR-35 @ 1.00%-PROPOSED KFC BUILDING CONSTRUCTION AREA; NOT INCLUDED IN THIS SCOPE OF WORK └ *INV=1018.84* (A1) (FROM WYE CONNECTION) SANITARY LINE TO BE CAPPED UNDER DEMISING WALL AND CLEANOUT TO BE INSTALLED FLUSH WITH FINISH FLOOR -50' - 8" PVC SDR-35 @ 1.00% MIN P.P.N. 615582 STM CLEANOUT AT 20' - 6" PVC @ 1.00% LOT #12458 & 12459 A1) INV=1017.51 MASS WALES LLC (FROM WYE CONNECTION) 05/2018/2017 INSTALL NEW ROOF DRAIN COMMERCIAL GREASE TRAP BUILDING FINISH FLOOR ELEVATION: 1024.96 ASSUMED EXISTING ELEVATION TO BE WALLACE AVE SE 30' N I RIM EL. = 1023.40 ≈1023.40 AFTER TRUCK DOCK DEMOLITION; ADJUST GREASE TRAP RIM ELEVATION TO £6" (SW) = 1017.78' NEW PVMT AS-BUILT ELEVATION £6" (NE) = 1017.53' SANITARY OLP.F. INV=1018.90 EXISTING DEMISING WALL - 6" PVC @ 1.17% SITE NEW BUILDING OVERHANG INSTALL NEW ROOF DRAIN -OHE -A1) INV=1017.80 -INSTALL NEW ROOF DRAIN W/ CO AT BASE 6" DRAIN EXISTING GENERATOR 6" DRAIN A1) INV=1019.42 -6" DRAIN TO REMAIN -**PROJECT** 6" DRAIN TO REMAIN -NUMBER CONNECT TO EXISTING ROOF DRAIN CONNECT TO EXISTING ROOF DRAIN 1712-A DATE 2018-09-21

NOTES

- 1. THIS TRENCH BACKFILL DETAIL APPLIES TO AREAS UNDER PAVEMENT AND AREAS WHERE THE TRENCH IS WITHIN FIVE (5) FEET OF THE EDGE OF PAVEMENT.
- STARK COUNTY BEDDING CLASSIFICATION TYPE B MEETS OR EXCEEDS ASTM D-2321 CLASS 1 BEDDING FOR FLEXIBLE PIPING, AND ASTM C-12, CLASS B BEDDING FOR RIGID PIPING.
- 3. FORCEMAIN BEDDING SHALL BE SELECT NATURAL SAND WELL COMPACTED IN 6" LIFTS.
- 4. BACKFILL SHALL BE COMPACTED TO THE REQUIREMENTS OF ITEM 1 IN THE SPECIFICATIONS.
- 5. COMPACTION OF THE BACKFILL SHALL BE ACHIEVED THROUGH THE USE OF AN APPROVED VIBRATORY TAMPER OR ROLLER.
- 6. COMPACTION TESTING OF THE BACKFILL SHALL BE PROVIDED, DIRECTED AND COORDINATED BY THE OWNER. INTERVALS OF TESTING SHALL BE AT THE TOTAL DISCRETION OF THE OWNER AND MAY BE CHANGED AT ANY TIME.

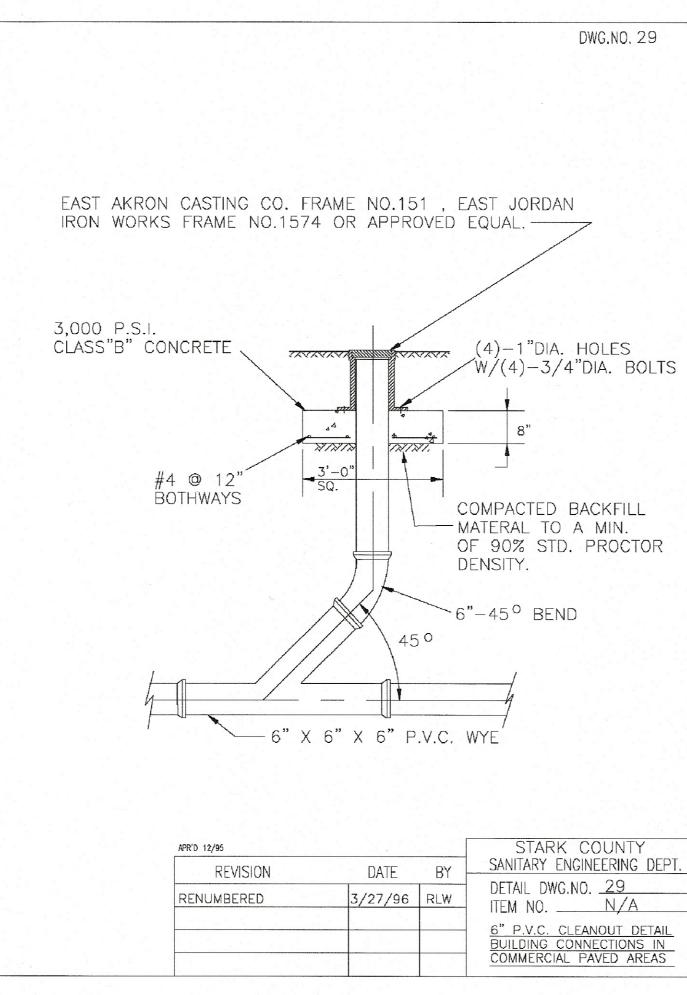
IF A TEST DOES NOT PASS, THE CONTRACTOR SHALL REMOVE THE DEFECTIVE BACKFILL, REDO THE WORK AND THE AREA WILL BE RETESTED. THE CONTRACTOR SHALL BE AWARE OF THE LEVEL OF COMPACTION REQUIRED.

IF THE WORK IS SUSPECT TO BE DEFECTIVE BY THE OWNER, THE WORK SHALL BE RETESTED.

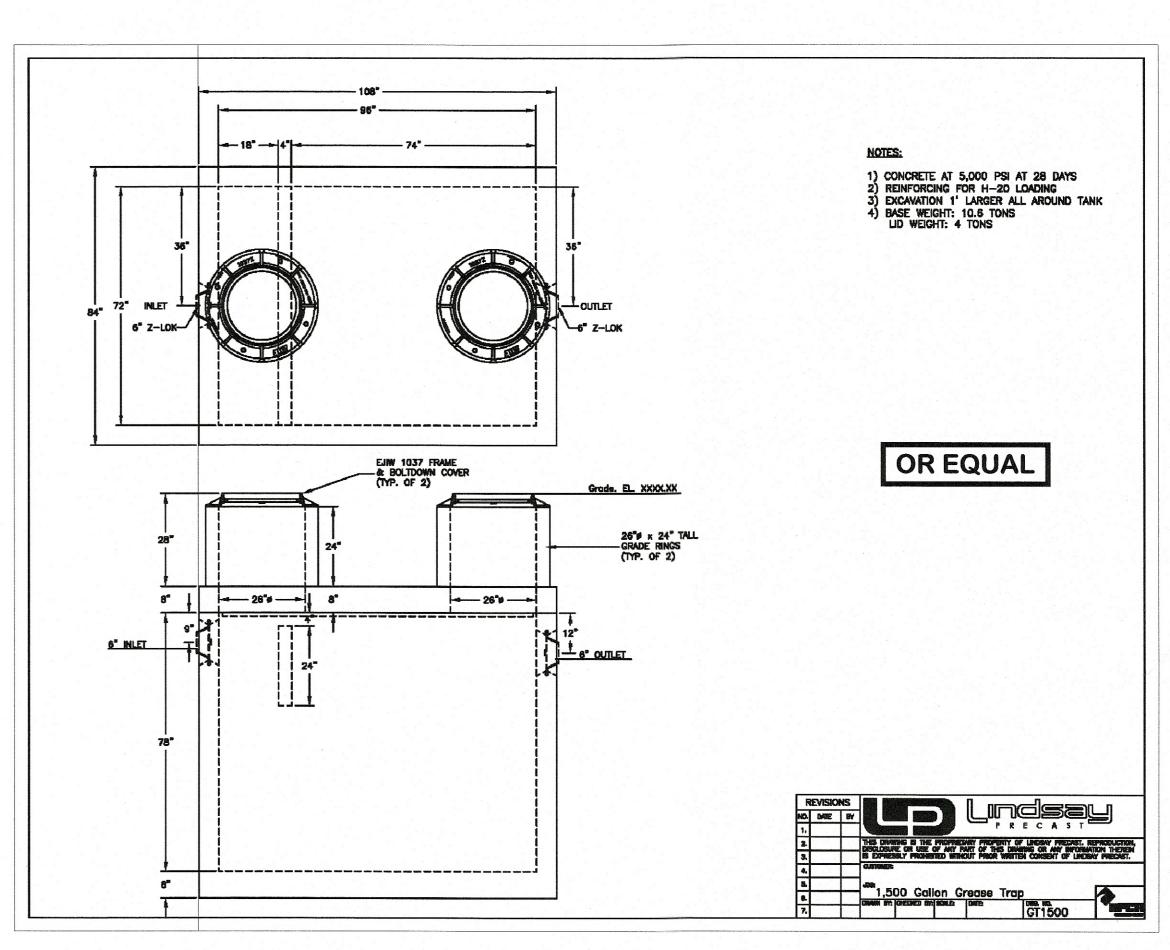
THE WATER CONTENT OF THE BACKFILL MATERIAL SHALL ALSO BE TESTED AND RECORDED FOR EACH TEST COMPLETED. THE CONTRACTOR WILL BE ALLOWED TO ADD WATER TO THE BACKFILL MATERIAL IN ORDER TO OBTAIN THE OPTIMUM WATER CONTENT. HOWEVER, THE CONTRACTOR WILL NOT BE ALLOWED TO UTILIZE THE ADDITION OF WATER AS A MEANS OF COMPACTION. FURTHERMORE, SHOULD THE BACKFILL MATERIAL BE FOUND TO HAVE WATER CONTENT RATIOS WHICH IN THE OPINION OF THE ENGINEER OR THE OWNER PREVENTS THE APPROPRIATE COMPACTION OF THE TRENCH, THE CONTRACTOR SHALL REMOVE ALL DEFECTIVE MATERIAL AND UNDERTAKE THE NECESSARY CORRECTIVE WORK.

			NO SCALE	
APR'D 08/02	STARK COUNTY	_		
REVISION	DATE	BY	SANITARY ENGINEERING DEPT.	
ODOT ITEM 703.11	9/02	BGD	DETAIL DWG.NO. 2	_
ADDED TYPE 2 BACK.	1/03	BGD	ITEM NO. 6 BEDDING & TRENCH	CH
REVISED NOTES	7/05	BGD	DETAIL FOR CONSTRUCTION	
			UNDER PAVEMENT	

BEDDING TRENCH DETAIL UNDER PAVEMENT N.T.S.



SANITARY CLEANOUT DETAIL N.T.S.



GREASE TRAP DETAIL N.T.S.

. ALTMAN SANITARY LATERAL
DETAILS & SPECIFICATIONS

PROJECT NUMBER 1712-A

DATE

2018-09-21

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