



SHEET INDEX

TITLE SHEET	1
GENERAL NOTES	2
DETAILS	3
EX. SITE PLAN	4
PLAN AND PROFILE	5
MOT PLAN	6
MOT NOTES	7

LEGEND

—R/W—	RIGHT-OF-WAY	—X—X—	FENCE
—W—	WATER LINE	—X—X—	GAS LINE MARKER
—S—	SANITARY SEWER LINE	—X—X—	TELEPHONE LINE MARKER
—ST—	STORM SEWER LINE	—X—X—	POWER POLE
—G—	GAS LINE	—X—X—	TELEPHONE POLE
—E—	UNDERGROUND ELECTRIC	—X—X—	TELEPHONE, LIGHT POLE
—O/E—	OVERHEAD ELECTRIC	—X—X—	TELEPHONE, POWER POLE
—T—	UNDERGROUND TELEPHONE	—X—X—	GENERAL POLE
—O/T—	OVERHEAD TELEPHONE	—X—X—	LIGHT POLE
—X—X—	ANCHOR	—X—X—	LIGHT, POWER POLE
—X—X—	SIGN	—X—X—	LIGHT, POWER, TELEPHONE POLE
—X—X—	CATCH BASIN (C.B.)	—X—X—	LIGHT, POWER, TELEPHONE, CABLE
—X—X—	MAN HOLE (AS LABELED)	—X—X—	T.V. POLE
—X—X—	TRAFFIC CONTROL BOX	—X—X—	
—X—X—	EXISTING FIRE HYDRANT	—X—X—	
—X—X—	WATER VALVE	—X—X—	
—X—X—	MAIL BOX	—X—X—	
—X—X—	GUARD POST	—X—X—	
—X—X—	SOIL BORING	—X—X—	
—X—X—	MONITORING WELL	—X—X—	
—X—X—	EDGE OF PAVEMENT	—X—X—	
—X—X—	FINISH FLOOR ELEVATION	—X—X—	
—X—X—	YARD DRAIN	—X—X—	
—X—X—	FLOOR DRAIN	—X—X—	
—X—X—	ROOF DRAIN	—X—X—	
—X—X—	DOWN SPOUT	—X—X—	
—X—X—	CLEAN OUT	—X—X—	
—X—X—	VITRIFIED CLAY PIPE	—X—X—	
—X—X—	POLYVINYL CHLORIDE PLASTIC PIPE	—X—X—	
—X—X—	SMOOTH LINED CORRUGATED PLASTIC PIPE	—X—X—	
—X—X—	DUCTILE IRON PIPE	—X—X—	

UTILITY OWNERSHIP

SANITARY & STORM
CITY OF MASSILLON
MUNICIPAL GOVERNMENT ANNEX
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646
(330) 830-1722

GAS
DOMINION EAST OHIO
320 SPRINGSIDE DRIVE
SUITE 320
AKRON, OHIO 44333
(330) 664-2413
ATTN: ERIC KERN
EMAIL:
ERIC.M.KERN@DOMINIONENERGY.COM

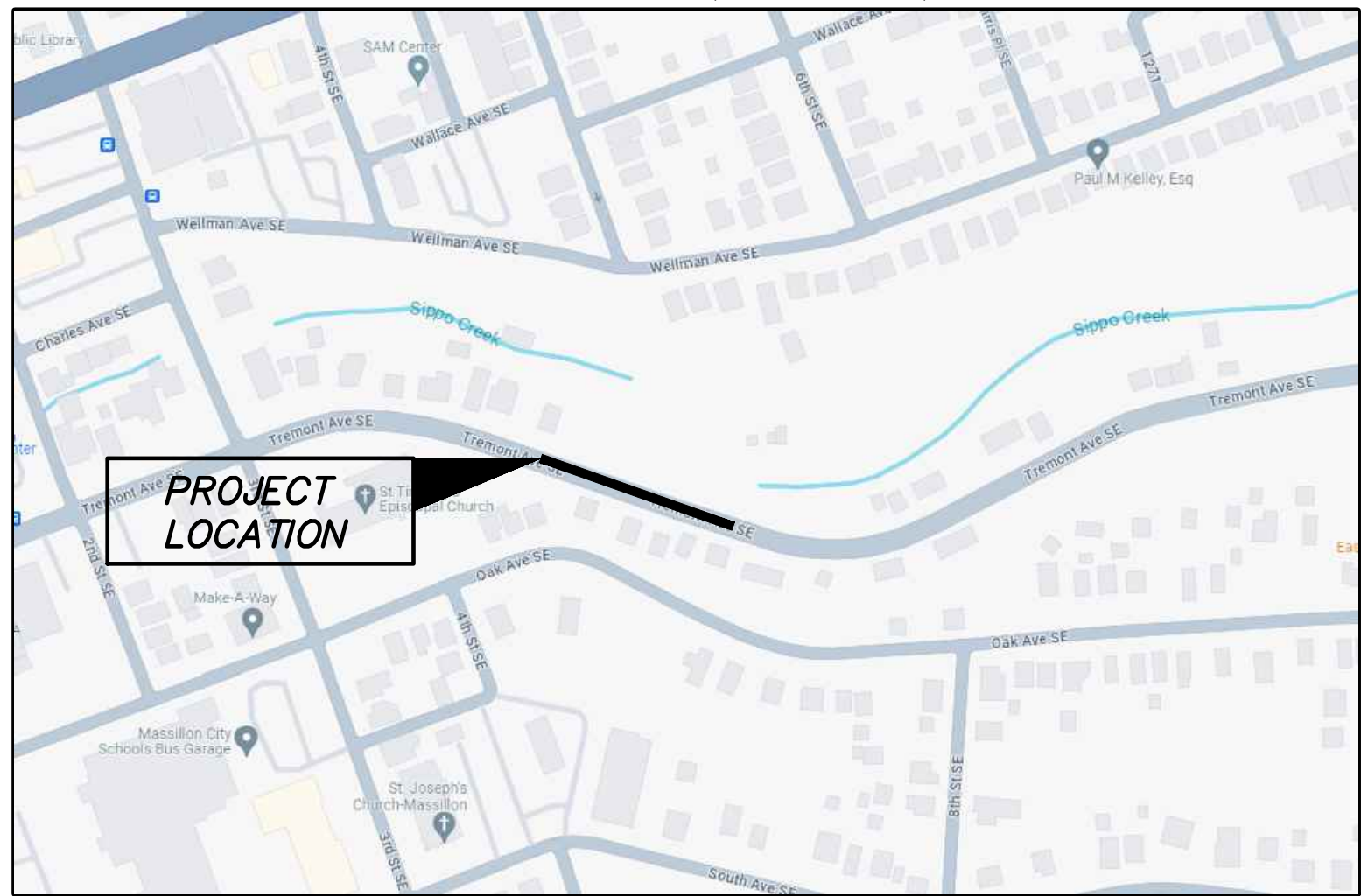
PHONE
AT&T
50 W. BOWERY ST.
AKRON, OHIO 44308
(330) 384-8541

ELECTRIC
FIRST ENERGY - OHIO EDISON
1717 ASHLAND ROAD
MANSFIELD, OHIO 44905
(419) 521-6212

CABLE
MASSILLON CABLE TV
814 CABLE CT NW
MASSILLON, OHIO 44647
(330) 833-4134

WATER
AQUA OHIO - MASSILLON
870 3RD ST NW,
MASSILLON, OHIO 44647
(877) 987-2782

HABITAT FOR HUMANITY
SANITARY SEWER EXTENSION
CITY OF MASSILLON
STARK COUNTY, OHIO
JANUARY 2024



VICINITY MAP

NO SCALE

SITE ADDRESS

424 TREMONT AVE SE, MASSILLON, OHIO

APPROVALS

OWNER: CORY BEVIS

DATE

CITY OF MASSILLON ENGINEER:

DATE

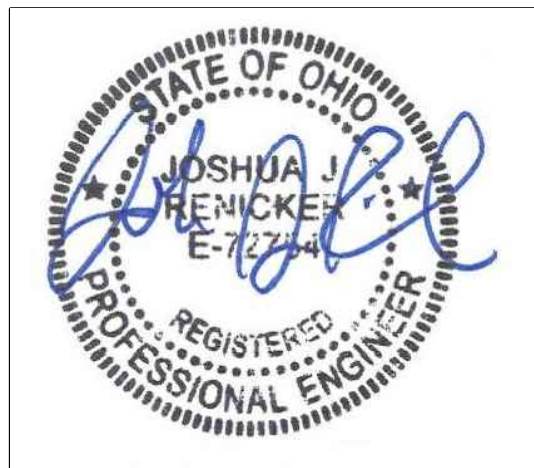
APPROVED BY THE OEPA FOR SANITARY SEWER EXTENSION BY A LETTER DATED MARCH 8, 2024

PTI #: 1623718

OWNER
HABITAT FOR HUMANITY
EAST CENTRAL OHIO, INC.
1400 RAFF RD SW, STE A
CANTON, OHIO 44710

ATTN: CORY BEVIS

PHONE - (330) 915-5888
EMAIL - CBEVIS@HABITATECO.ORG



1/16/2024

JOSHUA J. RENICKER, P.E.
OHIO P.E. NO. E-72754



UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

* THE CONTRACTOR IS TO VERIFY THE LOCATION
OF ALL UTILITIES PRIOR TO CONSTRUCTION

HAMMONTREE & ASSOCIATES, LIMITED
ENGINEERS, PLANNERS, SURVEYORS
5233 STONEHAM RD. NORTH CANTON, OH 44720
PHN: (330) 499-8817 FAX: (330) 499-0149
TOLL FREE: 1-800-394-8817
www.hammontree-engineers.com

COVER SHEET
SANITARY SEWER EXTENSION
FOR: HABITAT FOR HUMANITY EAST CENTRAL OHIO, INC.
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

GENERAL

- THE CONTRACTOR SHALL PERFORM ALL OF THE WORK AND FURNISH ALL OF THE LABOR AND MATERIALS NECESSARY FOR THE FINAL COMPLETION OF THIS CONTRACT IN THE MANNER AND UNDER THE CONDITIONS HEREIN SPECIFIED AND PROVIDED AND IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
- A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE OWNER AND CITY OF MASSILLON PRIOR TO THE COMMENCEMENT OF ANY WORK. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOUR NOTICE TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK.
- A PRE-CONSTRUCTION VIDEO TAPE OF THE PROJECT AREA WILL BE REQUIRED AND SUBMITTED TO THE OWNER BEFORE CONSTRUCTION BEGINS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS IN THE BID.
- ACCESS TO ALL DRIVEWAYS WILL BE MAINTAINED AT ALL TIMES EXCEPT THE TIME WHEN UTILITY INSTALLATION AND PAVEMENT REPLACEMENT WILL NOT PERMIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALL OTHER EXCESS EXCAVATED MATERIALS. COSTS FOR DISPOSAL SHALL BE INCLUDED IN OTHER ITEMS OF THE WORK.
- ALL OVER-THE-ROAD VEHICLES USED ON THE PROJECT BY ALL CONTRACTORS AND SUBCONTRACTORS WILL BE CLEARLY MARKED SHOWING ITS COMPANY SYMBOL.
- BEFORE THE OWNER WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR WILL FURNISH THE OWNER A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTOR HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
- MATERIALS FOR "AS-DIRECTED" ITEMS SHALL NOT BE ORDERED OR DELIVERED TO THE PROJECT SITE OR WORK PERFORMED UNTIL AUTHORIZED BY THE OWNER.
- THE CONTRACTOR SHALL NOTIFY THE LOCAL POLICE, FIRE DEPARTMENTS, LOCAL SCHOOLS, AND THE CITY OF MASSILLON ENGINEERS (PHONE-330-830-1722) AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.
- THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY MAILBOX, PAPERBOX, TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING ITEMS, ETC. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR OWNER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY, WHEN ORDERED BY THE OWNER, WATER OR CALCIUM CHLORIDE FOR THE ALLEVATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL. THE COST OF DUST CONTROL SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
- ALL SOIL AREAS DISTURBED SHALL BE TOPSOILED (4" THICK), SEEDED AND MULCHED PER ODOT CMS ITEM 659. ALL TOPSOIL WORK SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
- WORK UNDER THIS CONTRACT SHALL BE LIMITED TO THE PUBLIC RIGHT-OF-WAY AND EASEMENTS OBTAINED BY THE OWNER AS SHOWN ON THE DRAWINGS. ANY ADDITIONAL CONSTRUCTION EASEMENTS REQUIRED FOR COMPLETION OF WORK UNDER THIS CONTRACT SHALL BE OBTAINED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT CUT DOWN, DISTURB OR DAMAGE ANY TREES NOT DESIGNATED FOR REMOVAL DURING THE PROSECUTION OF WORK UNDER THE CONTRACT.
- IN ORDER TO MINIMIZE ADVERSE CONSTRUCTION NOISE IMPACTS, NO POWER OPERATED CONSTRUCTION TYPE DEVICE SHALL BE OPERATED BETWEEN THE HOURS OF 7:00 P.M. TO 7 A.M. IN ADDITION, NO POWER-OPERATED CONSTRUCTION TYPE DEVICE SHALL BE OPERATED IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.
- WHEN, FOR ANY REASON, THE WORK IS LEFT UNFINISHED FOR AN EXTENDED PERIOD OF TIME, ALL TRENCHES AND EXCAVATIONS SHALL BE FULLY PROTECTED OR FILLED UP TO LEAVE THE SITE IN A GOOD AND SAFE CONDITION.

EXCAVATION, BACKFILL, AND COMPACTION

- ALL UTILITY LINES (i.e. STORM SEWERS, STORM LATERALS, SANITARY LATERALS, WATER MAINS, WATER SERVICE CONNECTIONS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OBT CONDUITS, CABLE T.V. LINES) CROSSING THE PROPOSED IMPROVEMENTS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THE ABOVE WORK. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED.

EXCESS EXCAVATION

ALL EXCESS EXCAVATION SHALL BE DISPOSED OF IN A LOCATION TO BE SELECTED BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL CONSTRUCTION MATERIALS/DEBRIS.

ITEM 304 -- AGGREGATE BASE, AS PER PLAN

GRANULATED SLAG (GS) SHALL NOT BE PERMITTED FOR THIS ITEM. ALL OTHER REQUIREMENTS OF SECTION 304 AND 703.17 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL STILL BE APPLICABLE.

SALVAGED ITEMS

THE OWNER SHALL RECEIVE ALL SALVAGED ITEMS SUCH AS MANHOLE CASTINGS, FIRE HYDRANTS, VALVE CAPS, ETC. THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL STEEL REMOVED FROM THE PROJECT.

TEMPORARY PAVEMENT

THE CONTRACTOR SHALL REMOVE ALL PAVEMENTS AND ROAD SURFACES WITHIN THE LINES OF EXCAVATION IN ACCORDANCE WITH THE PLANS, TYPICAL SECTIONS AND DETAILS. AFTER THE PAVEMENT HAS BEEN REMOVED AND THE PIPE HAS BEEN LAID, ALL APPURTENANT WORK CONSTRUCTED AND BACKFILL COMPLETED, THE CONTRACTOR SHALL FURNISH, PLACE AND MAINTAIN WHEREVER SURFACE HAS BEEN REMOVED OR DAMAGED, A TEMPORARY PAVEMENT IN THE PAVED PORTION OF STREETS AND DRIVEWAYS SO AS TO PROVIDE A SAFE AND PASSABLE ROADWAY UNTIL SUCH TIME AS THE FINAL PAVEMENT IS COMPLETED. ACCESS TO ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES EXCEPT BRIEFLY DURING WORKING HOURS WHEN CONSTRUCTION ACTIVITIES PROHIBIT. TWO-WAY ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT. THE CONTRACTOR MUST SUBMIT IN WRITING ANY REQUESTS FOR NOT PROVIDING TWO-WAY TRAFFIC ACCESS FOR APPROVAL BY THE VILLAGE.

GRANULAR MATERIAL USED FOR THIS PURPOSE SHALL MEET THE GRADING REQUIREMENTS OF ITEM 304, ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS, CURRENT EDITION, AND SHALL BE PLACED AND MAINTAINED AS NECESSARY TO PROVIDE A STABLE SURFACE. THE COST OF TEMPORARY SURFACE SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SIZES OF PIPES AND NO SEPARATE COMPENSATION WILL BE MADE.

PROTECTION AGAINST VANDALISM

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT SITE SECURITY MEASURES AND / OR PERSONNEL TO PROTECT ALL NEW CONCRETE WORK FROM VANDALISM UNTIL THE CONCRETE IS SUFFICIENTLY CURED AT NO ADDITIONAL COST.

ROADWAY EXCAVATION AND PAVEMENT

ALL PAVEMENT REMOVAL AND REPLACEMENT, NEW PAVEMENT AND ASSOCIATED ROADWAY WORK WILL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, STANDARD CONSTRUCTION DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS, WITH THE MODIFICATIONS AS SET FORTH IN THESE SPECIFICATIONS.

COST FOR PAVEMENT REPLACEMENT AND SURFACE RESTORATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE SIZE AND TYPE OF PIPE. LIMESTONE AGGREGATE SHALL BE USED IN THE PORTLAND CEMENT CONCRETE FOR PAVEMENT, CURBS AND SIDEWALK.

SANITARY, STORM, AND WATER SERVICE CONNECTIONS

- THE FOLLOWING NOTES APPLY TO SANITARY, STORM, AND WATER CONNECTIONS
 - LOCATIONS OF EXISTING SERVICE CONNECTIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING CONNECTIONS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL RECORD ACTUAL LOCATION INFORMATION ON HIS RECORD DRAWINGS AS CONSTRUCTION OCCURS.
 - THERE SHALL BE NO ADDITIONAL PAYMENT MADE FOR SAW CUTTING, EXCAVATION OR BACKFILL, INCLUDING MATERIALS AND LABOR FOR PIPING, CAPS, BULKHEADS AND APPURTENANCES PLACED FOR LATERALS WHICH ARE DETERMINED TO BE INACTIVE AND THUS ARE TO BE ABANDONED, UNLESS NOTED OTHERWISE.
 - NO INACTIVE LATERALS SHALL BE RECONNECTED TO THE SEWER.
- THE CONTRACTOR SHALL BE REQUIRED TO BYPASS AND MAINTAIN THE FLOW FROM ALL HOUSE UTILITY CONNECTIONS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL SUPPLY ALL PIPE AND ADAPTERS TO CONNECT TO EXISTING PIPING.
- EXISTING SEWER AND WATER SERVICE CONNECTIONS SHALL BE PROTECTED AND MAINTAINED IN SERVICE. ANY EXISTING WATERLINE, SANITARY SEWER, AND GAS LINE, IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE IN THE PLANS AND/OR SPECIFICATIONS.

PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS

THE CONTRACTOR WILL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES AND IN CASE OF DISTURBANCE, HE SHALL ENGAGE A REGISTERED SURVEYOR TO REPLACE THEM AT HIS EXPENSE AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THEIR LOSS OR DISTURBANCE.

MAINTENANCE OF TRAFFIC

- PRIOR TO THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT TO THE OWNER A PROPOSED PROJECT CONSTRUCTION SCHEDULE AND A DETAILED MAINTENANCE OF TRAFFIC PLAN. BOTH THE SCHEDULE AND MAINTENANCE OF TRAFFIC PLAN SHALL BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION. COST OF THIS WORK TO BE INCLUDED IN THE BID.
- THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.
- MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT AND ITEM 614-TEMPORARY PAVEMENT MARKINGS. ACCESS TO ALL DRIVEWAYS SHALL ALSO BE MAINTAINED AT ALL TIMES EXCEPTING THE TIME WHEN CONCRETE CURB OR DRIVE APRONS ARE CURING. COST OF THIS WORK TO BE INCLUDED IN THE BID.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL ABUTTING PROPERTIES WITHIN THE PROJECT. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGMEN, CONSTRUCTION SIGNING AND OTHER TRAFFIC CONTROLS SO AS TO AVOID DAMAGE AND/OR INJURY TO AND ENSURE THE SAFETY OF VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION BOTH WITHIN AND OUTSIDE OF THE PROJECT LIMITS. COST OF THIS WORK TO BE INCLUDED IN THE BID.

EXISTING UTILITIES

- EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE PRIOR TO BID SUBMISSION.
- THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.
- THE LOCATIONS OF THE UNDERGROUND UTILITIES ARE PLOTTED ACCORDING TO THE INFORMATION FURNISHED BY THE UTILITIES CONCERNED AND THE OWNER DOES NOT GUARANTEE THE ACCURACY THEREOF. CONTRACTOR ALSO TO COORDINATE HIS WORK WITH THE DOMINION EAST OHIO GAS COMPANY, AEP, AT&T AND SPECTRUM CABLE FOR UTILITY RELOCATION.
- 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. CABLE (AEP, AT&T & SPECTRUM) RELOCATION AND SUPPORT COST SHALL BE INCLUDED IN OTHER BID ITEMS.
- 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 IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.
- 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.
- WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.
- IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
- IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST 48 HOURS IN ADVANCE OF THE NEED TO DISRUPT EXISTING WATER SERVICES. EXISTING SERVICES SHALL NOT BE DISRUPTED FOR MORE THAN TWO HOURS AND THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING PROPERTY OWNERS OF SERVICE DISRUPTION AT LEAST 24 HOURS IN ADVANCE OF THE DISRUPTION. THE OWNER WILL BE RESPONSIBLE FOR SHUTTING DOWN ANY EXISTING WATER SERVICES OR WATER LINES.

RESTORATION

- 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 OWNER. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED BY THE END OF THE SAME WORKDAY.
- 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 OWNER AT NO ADDITIONAL.

CITY OF MASSILLON SANITARY SEWER SPECIFICATIONS

SANITARY SEWER CONSTRUCTION PROPOSED FOR THIS PROJECT SHALL CONFORM TO THE LATEST CITY OF MASSILLON STANDARDS AND CONSTRUCTION AND MATERIALS SPECIFICATIONS, TEN STATE STANDARDS, AND THE LATEST EDITION OF ODOT CMS, OR MODIFIED BY THE CONTRACT DRAWINGS. IF A CONFLICT ARISES BETWEEN SAID STANDARDS IT SHALL BE THE DISCRETION OF THE CITY OF MASSILLON ENGINEER AS TO WHICH STANDARD SHALL GOVERN. THE PROJECT CONTRACT DRAWINGS SHALL GOVERN UNLESS NOTED OTHERWISE.

SANITARY GRAVITY SEWER PIPE AND FITTINGS SHALL BE PVC SDR 35 CONFIRMING TO ASTM D-3034 UNLESS OTHERWISE NOTED. PVC COMPOUNDS SHALL CONFORM TO ASTM D-1784 PVC PIPE AND FITTINGS SHALL HAVE BELL AND SPIGOT TYPE JOINTS CONFORMING TO ASTM-3212 AND GASKETS CONFORMING TO ASTM F-477.

BACKFILL IN SEWER TRENCHES SHALL CONFORM TO ODOT ITEM 603.10 AND BE PLACED IN LAYERS SUFFICIENT TO TO MEET THE COMPACTION REQUIREMENT OF 100% OF MAXIMUM LABORATORY DRY DENSITY PER ASTM D-698 AND THOROUGHLY COMPACTED WITH MACHINE MOUNDED COMPACTION EQUIPMENT. THE PLACING OF BACKFILL MATERIAL SHALL BE CONTINUED UNTIL THE TRENCH IS ENTIRELY FILLED AND COMPACTED WITH THE APPROVED GRANULAR MATERIAL TO THE GRADE CALLED FOR ON THE CONTRACT DRAWINGS. EXCAVATED MATERIAL CONFORMING TO ODOT 2033 SHALL BE USED FOR BACKFILLING EXISTING STRUCTURES (AFTER REMOVAL) ONLY. CRUSHED GRAVEL CONFORMING TO GRADATION REQUIREMENTS OF ODOT ITEM 304 OR APPROVED EQUAL AS SHOWN ON ODOT TABLE 70301 SHALL BE USED FOR BACKFILLING ALL SEWER TRENCH AREAS SHOWN ON THE PLANS AND AS DIRECTED BY THE CITY OF MASSILLON ENGINEER. FLOODING, JETTING, OR PUDDLING OF BACKFILL MATERIAL WILL NOT BE PERMITTED UNLESS APPROVED BY THE CITY OF MASSILLON ENGINEER.

CLEAN WATER STATEMENT

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

ENVIRONMENTAL PROTECTION – PROHIBITED CONSTRUCTION ACTIVITIES

- LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS.
- INDISCRIMINATE, ARBITRARY OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR OUTWASH AREAS.
- PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER AREAS DIRECTLY INTO ANY SURFACE WATERS, STREAM CORRIDORS, WETLANDS, OR INTO NATURAL SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE.
- DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, WETLANDS, SURFACE WATERS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
- PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM.
- DAMAGING ANY VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
- DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR AT UNSPECIFIED LOCATIONS.
- OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
- STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES.
- RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE VILLAGE AND THE CONSENT OF THE ENGINEER.
- OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 A.M. AND 4:30 P.M. OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS.
- CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING CLEAR ACCESS:
 - BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES.
 - BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE.
 - BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.

SANITARY SEWERS

SANITARY PIPE – ODOT 611
POLYVINYL CHLORIDE SANITARY PIPE – ODOT 707.45 (SDR 35);
C900 (DR 25) (AWWA C605-21) – WHERE NOTED
LATERAL PIPE – ODOT 611
POLYVINYL CHLORIDE SANITARY PIPE – ODOT 707.45 (SDR 35)
MANHOLES – ODOT 611
MANHOLE – PRECAST REINFORCED CONCRETE – ODOT 706.13
CASTINGS – GRAY OR DUCTILE IRON – ODOT 711.12 OR 711.13
HEAVY DUTY (PAVEMENT AREAS) – NEENAH R-1785 OR APPROVED EQUAL WITH SOLID COVER, MACHINED BEARING SURFACES AND "SANITARY SEWER" CAST IN THE COVER
LIGHT DUTY (NON-PAVEMENT AREAS) – NEENAH R-1786 OR APPROVED EQUAL WITH SOLID COVER, MACHINED BEARING SURFACES AND "SANITARY SEWER" CAST IN THE COVER
STEPS – REINFORCED PROPYLENE PLASTIC MANHOLE STEPS – ODOT 711.31
M.A. INDUSTRIES, INC., MODEL PSI-PF OR APPROVED EQUAL
FLEXIBLE PIPE CONNECTIONS
NATIONAL POLLUTION CONTROL SYSTEMS, INC., KOR-N-SEAL OR APPROVED EQUAL
A-LOK CORPORATION A-LOK MANHOLE SEALS OR APPROVED EQUAL
TRUMBULL MANUFACTURING, INC., LINK-SEAL OR APPROVED EQUAL
TESTING – MANHOLE VACUUM TESTING – ASTM C 1244-05 – STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES
SANITARY SEWER LEAKAGE TESTING – ASTM F 1417 – STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW PRESSURE AIR
SANITARY SEWER DEFLECTION TESTING – ASTM D 3034 – SOLVENT WELD GRAVITY SEWER PIPE
VISUAL INSPECTION – AS DESCRIBED BELOW
PRESSURE TESTING – PVC C900 SEWER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C605. ALL TEST RESULTS SHALL BE APPROVED BY OWNER BEFORE INSTALLATION OF SERVICE LATERALS.

VISUAL INSPECTION SHALL BE PERFORMED UPON ALL NEWLY INSTALLED SANITARY SEWERS. INSPECTION SHALL BE PERFORMED AFTER SUCCESSFUL DEFLECTION TESTING BY CONTINUOUS CLOSED CIRCUIT TELEVISION AND VIDEO RECORDING OF THE INTERIOR OF SEWER PIPE BETWEEN CONSECUTIVE MANHOLES. INSPECTION SHALL BE PERFORMED BY A QUALIFIED FIRM APPROVED BY THE CITY OF MASSILLON.

TELEVISION AND VIDEO RECORDING SHALL PROVIDE A CLEAR AND VISIBLE PICTURE OF THE FULL INTERIOR DIAMETER OF THE PIPE. VIDEO RECORDING SHALL BE IN DIGITAL FORMAT WITH PROPER IDENTIFICATION OF THE LOCATION OF THE SEWERS RECORDED AND A LOG SHOWING THE EXACT POSITION OF THE TELEVISION CAMERA BETWEEN MANHOLES. A DIGITAL COPY OF THE VIDEO SHALL BE FURNISHED TO THE CITY FOR REVIEW UPON COMPLETION OF THE VISUAL INSPECTION.

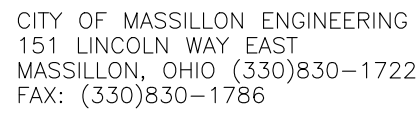
THE CONTRACTOR SHALL SUPPLY ALL NECESSARY EQUIPMENT AND APPARATUS FOR PERFORMING THE VISUAL INSPECTION AND THE INSPECTION SHALL BE PERFORMED IN THE PRESENCE OF A SMSD AUTHORIZED REPRESENTATIVE. ANDY DEFECTS SUCH AS CRACKED PIPE, SAGS, JOINT LEAKAGE, ETC. DISCOVERED AS A RESULT OF THE VISUAL INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND THE REPAIRED AREA SHALL BE REINSPECTED AFTER 30 DAYS.

MINIMUM CLEARANCE BETWEEN SANITARY SEWERS AND WATERLINES SHALL BE 18 INCHES VERTICALLY AND 10 FEET HORIZONTALLY.





NOTE:
1. REPAIRING SHALLOW SERVICE LATERALS: SHALLOW SANITARY AND STORM SERVICE LATERALS SHALL BE REPAIRED AS SHOWN IN THIS DETAIL.



(913.06)
 CONCRETE: 10" BASE AND SURFACE MONOLITHIC
 ASPHALT BASE: 8" CONCRETE BASE WITH
 2" OF 404 ASPHALT CONCRETE
 BRICK: 8" CONCRETE BASE W/ BRICK SURFACE
 MATCHING ORIGINAL
 MACADAM: SAME AS ASPHALT

IF ASPHALT AC BAND
 IF CONCRETE EXPANSION JOINT

TOP OF SUBBASE

9"

(*) No. 6 WIRE MAT OR 5/8" DEFORMED BARS SPACED BOTH WAYS 18" ON CENTER

9"

GRANULAR BACKFILL AS SPECIFIED

12'

TOP OF PIPE

SPRING LINE

6" MIN.

ASTM D-2321, CLASS 1
 BEDDING FOR FLEXIBLE PIPING
 CLASS B
 CLASS C
 BEDDING FOR RIGID PIPING

TRENCH WIDTH =

UP TO 42" PIPE, I.D. PIPE + 2'0"
 48" & LARGER, O.D. PIPE + 2'0"

(*) MUST BE USED WHEN WIDTH OF TRENCH IS GREATER THAN 3' AT THE SUBBASE LEVEL

CONCRETE BASE SHALL BE OF 1:2:4, 6 BAG MIX, PORTLAND CEMENT CONCRETE USING HIGH EARLY STRENGTH CEMENT AND IT MUST BE CURED AT LEAST 48 HRS.

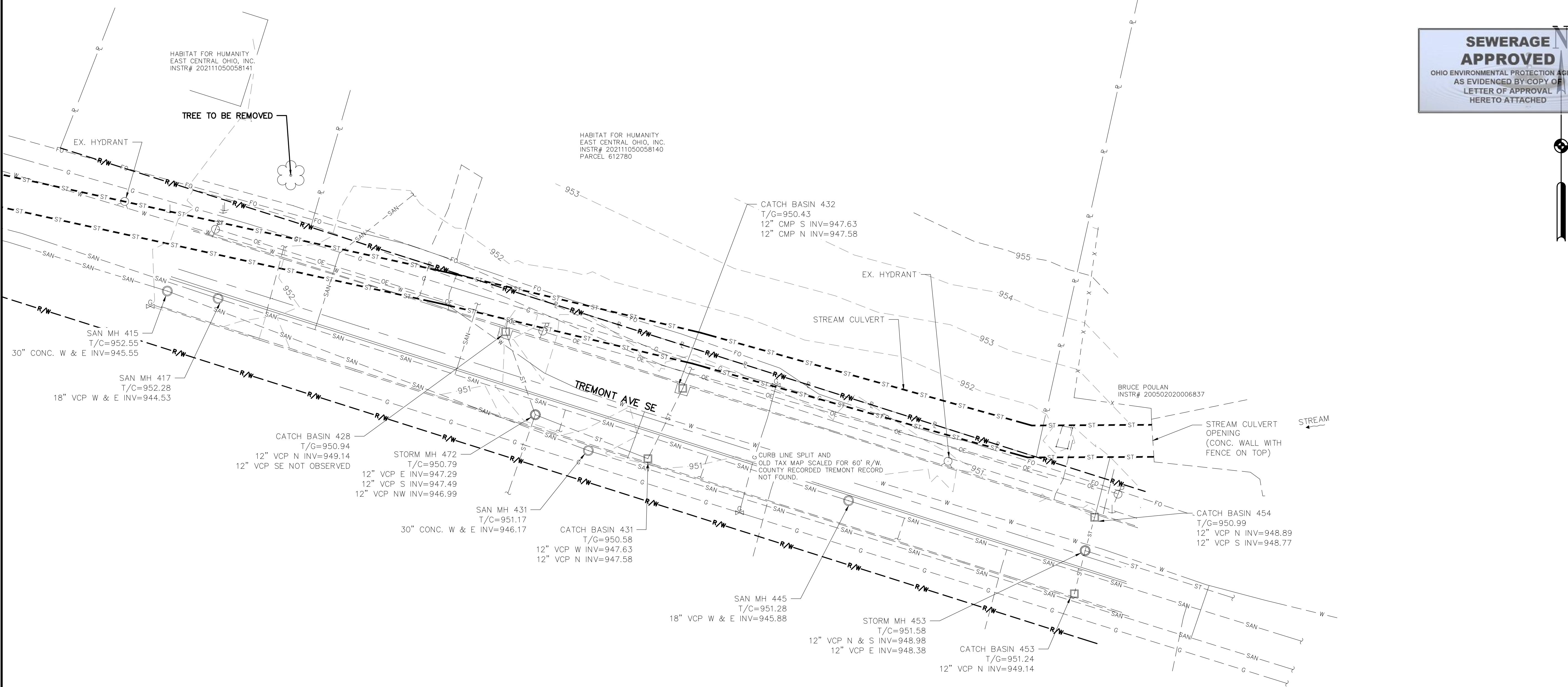


BASE I.D.	MIN. "T"	MAX. PIPE SIZE
48"	5"	30"
60"	5"	36"
72"	6"	48"
84"	7"	54"
90"	7-1/2"	60"
96"	8"	60"

**SEWERAGE
APPROVED**
OHIO ENVIRONMENTAL PROTECTION AGENCY
AS EVIDENCED BY COPY OF
LETTER OF APPROVAL
HERETO ATTACHED

K:\Stark County\Massillon\Habitat for Humanity Sewer Ext\DWG\2024-01-10 HFHECO Tremont Sewer Ext.dwg; 2/22/24 - 2:11pm; pcollier

© 2024 HAMMONTREE & ASSOCIATES, LIMITED — THESE DRAWINGS SHALL NOT BE USED BY ANY PERSON, FIRM OR CORPORATION WITHOUT SPECIFIC WRITTEN PERMISSION FROM HAMMONTREE & ASSOCIATES, LIMITED.



ENGINEERS, PLANNERS, SURVEYORS

PA
OH
WV

HAMMONTREE & ASSOCIATES, LIMITED

5233 STONEHAM RD. NORTH CANTON, OH 44720
PHN: (330) 499-8817 FAX: (330) 499-0149
TOLL FREE: 1-800-394-8817
www.hammontree-engineers.com

REV. BY:	DATE:	DESC.:
REV. BY:	DATE:	DESC.:
REV. BY:	DATE:	DESC.:
REV. BY:	DATE:	DESC.:

DESIGN BY:	JUR
DRWN BY:	PLC
RWD BY:	JUR
FLD BK:	679
BK PG:	18
DATE:	12/13/23

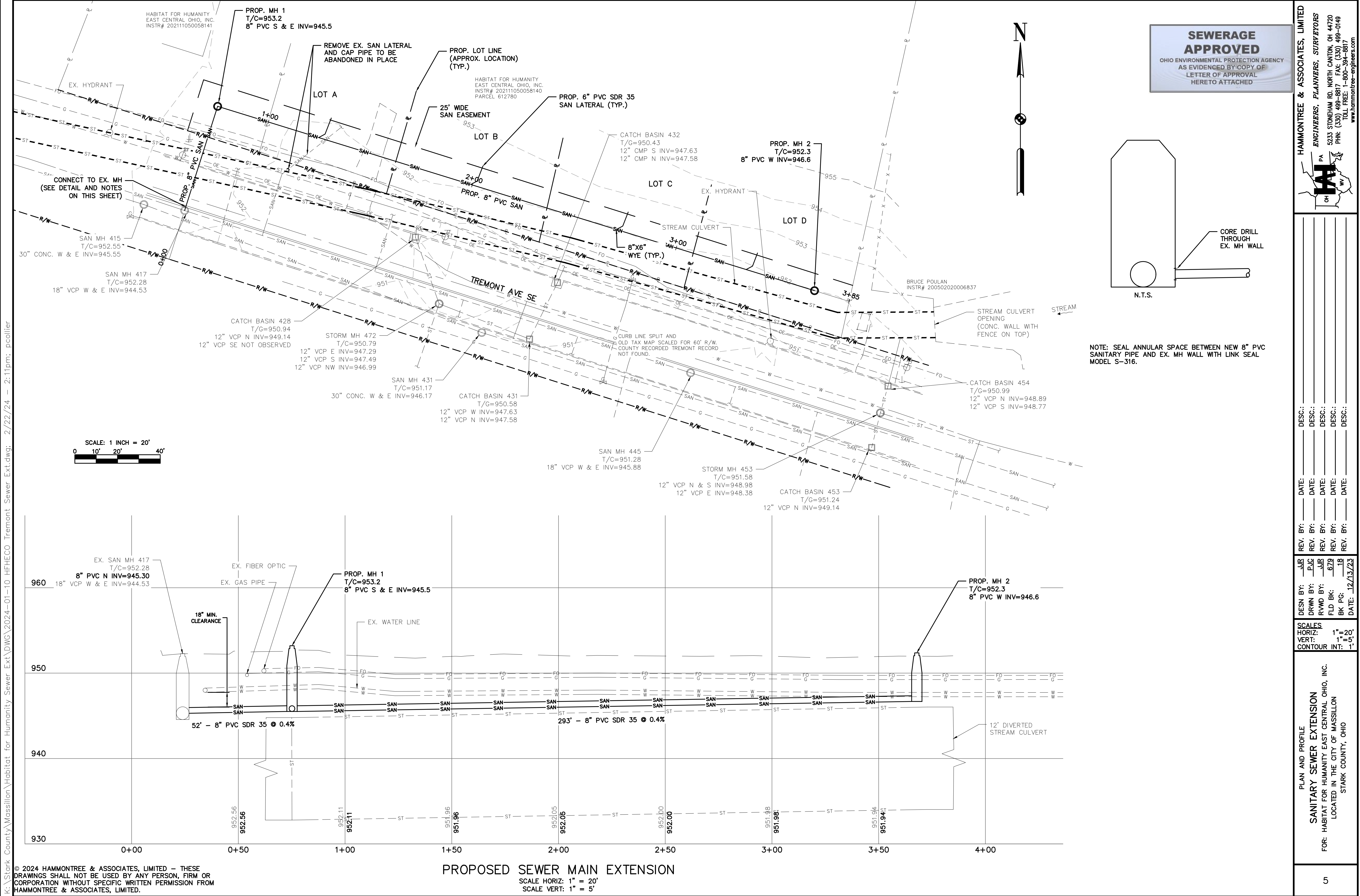
SCALES	1"=20'
HORIZ:	
VERT:	
CONTOUR INT:	1'

EXISTING SITE PLAN

SANITARY SEWER EXTENSION

FOR: HABITAT FOR HUMANITY EAST CENTRAL OHIO, INC.
LOCATED IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

4



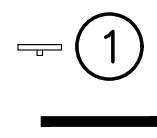
K:\Stark County\Massillon\Habitat for Humanity Sewer Ext\DWG\2024-01-10 HFECO Tremont Sewer Ext.dwg; 2/22/24 - 2:11pm; pccollier

LEGEND

SIGN
WORK AREA

NOTES:

1. CONTRACTOR SHALL USE AND FOLLOW ODOT SCD MT-97.11, MT-101.60 AND THE CURRENT OMUTCD.
2. THE DETOUR SHOWN SHALL BE USED FOR THE SEWER EXTENSION ALONG TREMONT AVENUE SE.



ROAD WORK
AHEAD

W20-1

1

TREMONT
D3-1

ROAD CLOSED
500 FEET AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

DETOUR

M4-10L-48

MOUNTED ON TYPE III
BARRICADE

5

END
ROAD WORK

G20-2

2

TREMONT
D3-1

ROAD CLOSED
0.6 MILES
LOCAL TRAFFIC ONLY

R11-3A-60

DETOUR

M4-10R-48

MOUNTED ON TYPE III
BARRICADE

6

NOT TO SCALE

DETOUR
AHEAD

W20-2

3

ROAD CLOSED

R11-2-48
MOUNTED ON TYPE III
BARRICADE

4

TREMONT
D3-1

EAST

M3-2-24

DETOUR

M4-9R-30

A

TREMONT
D3-1

WEST

M3-4-24

DETOUR

M4-9L-30

B

TREMONT
D3-1

WEST

M3-4-24

END
DETOUR

M4-8a-30

C

TREMONT
D3-1

WEST

M3-4-24

DETOUR

M4-8-24

↑

M6-3-21

D

TREMONT
D3-1

EAST

M3-2-24

DETOUR

M4-8-24

↑

M6-3-21

E

TREMONT
D3-1

EAST

M3-2-24

END
DETOUR

M4-8a-30

F

TREMONT
D3-1

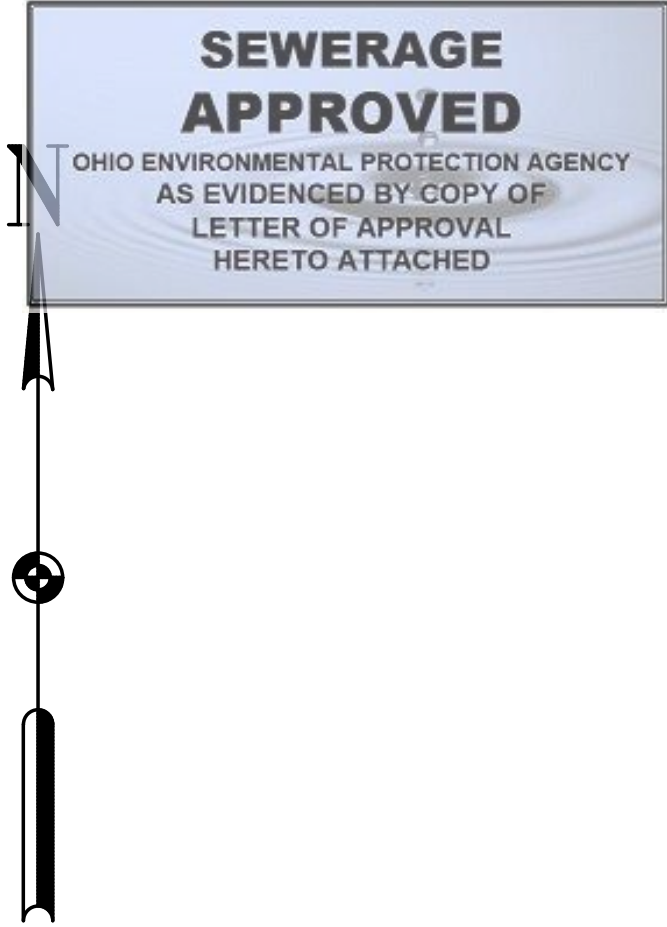
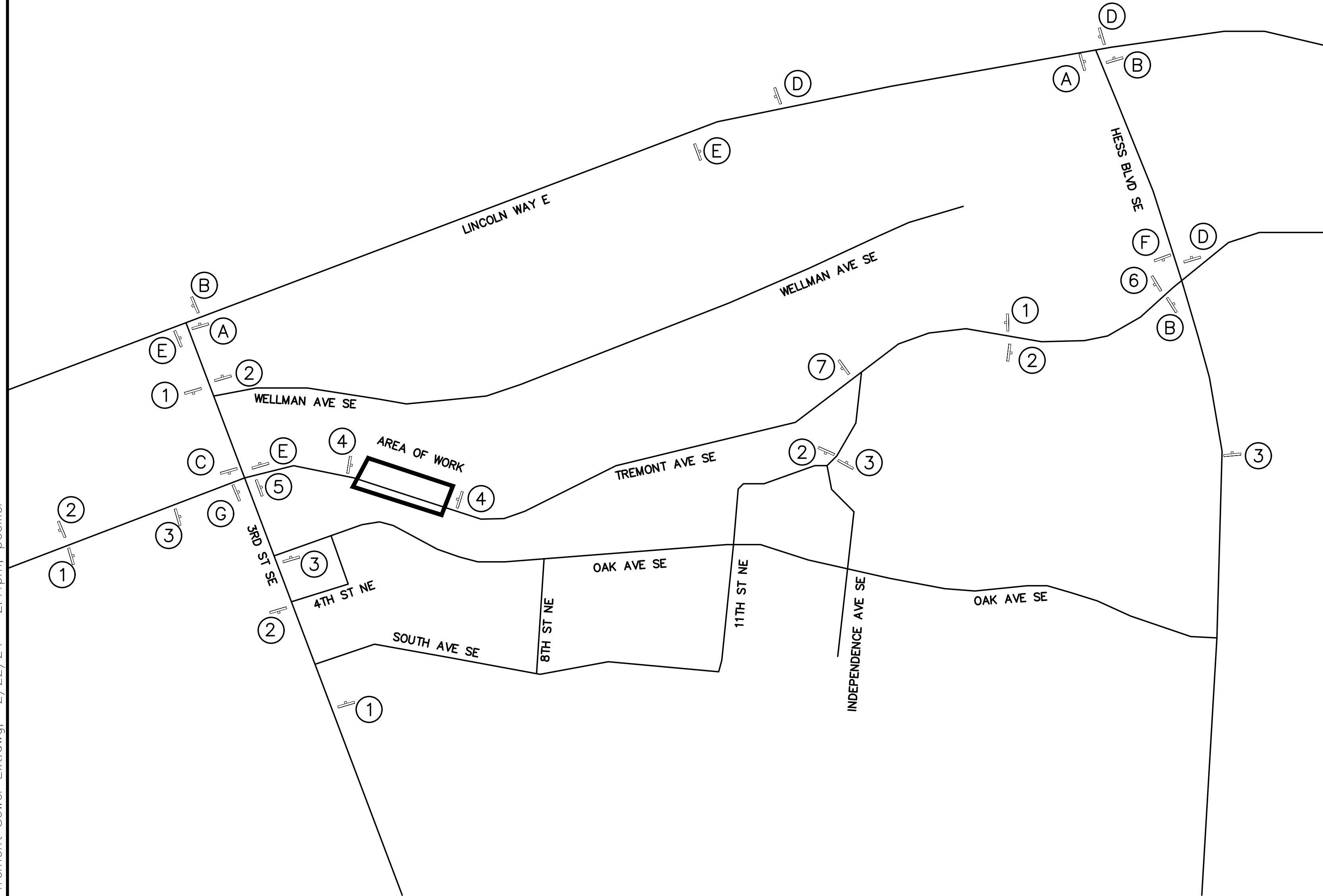
EAST

M3-2-24

DETOUR

M4-9L-30

G



MAINTENANCE OF TRAFFIC NOTES:
ITEM 614 – MAINTAINING TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

- A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK, EXCEPT AS NOTED:
 - CULVERT REPLACEMENT WHILE MAINTAINING SINGLE LANE FOR USE.
- PLACEMENT OF ASPHALT CONCRETE: TWO–WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE–WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES OR THE INSTALLATION OF STORM CONDUIT.
- THE CONTRACTOR SHALL INFORM THE CITY OF GREEN ENGINEER (330) 856–9910, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
- CONES SHALL NOT BE ACCEPTABLE TRAFFIC CONTROL DEVICES FOR LANE RESTRICTIONS OR LANE REDUCTIONS THAT ARE IN OPERATION ONE–HALF HOUR AFTER SUNSET OR ONE HALF–HOURS BEFORE SUNRISE. ALL NIGHTTIME LAND RESTRICTIONS SHALL REQUIRE DRUMS OR BARRICADES AT A MAXIMUM SPACING OF FIFTY (50) FEET. WEIGHTED CHANNELIZERS MAY BE USED IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DRAWINGS.
- LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.
- ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS AND CONDUIT REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED OR PROTECTED AS PER SCD MT–101.90.
- UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS ONE (1) MILE.
- RESIDENTIAL AREAS: NO WORK SHALL BE PERFORMED FROM 10:00PM TO 6:00AM DAILY.
- IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) CENTER, LANE, CHANNELIZING AND STOP LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER ITEM 614 WORK ZONE PAVEMENT MARKINGS.
- ALL ITEM 614 WORK ZONE MARKING SIGNS SHALL BE INCLUDED IN THE COST OF THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

ALTHOUGH NOT SHOWN IN THE PLANS, THE CONTRACTOR SHALL PLACE THE SIGNS: W8–1 [BUMP] PER OMUTCD 2C.28; W811 [UNEVEN LANES] PER OMUCTD 6F.45; AND W6–3 [TWO–WAY TRAFFIC] PER OMUTCD 6F.32 AND AS REQUESTED BY THE PROJECT ENGINEER, CITY OR OWNER. PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614 – MAINTAINING TRAFFIC.

IN ADDITION TO THE REQUIREMENTS OF 614.11, ALL CLASS 1 EDGE LINES, LANE LINES, CENTER LINES AND DOTTED LINES SHALL BE 6 INCHES WIDE AND CHANNELIZING MARKINGS SHALL BE 12 INCHES WIDE. THE APPLICATION RATES FOR THE 6 INCH LINES SHALL BE 1.5 TIMES THE RATES SPECIFIED FOR 4 INCH LINES IN TABLE 614.11–1.

- PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.
- DRIVEWAYS AND CROSSROAD INTERSECTIONS – THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO ALL PROPERTIES AT ALL TIMES. THE CONTRACTOR MUST SUBMIT A PLAN TO DEMONSTRATE HOW THE BUSINESSES/PARKS WILL HAVE CONTINUOUS ACCESS TO THEIR PARKING LOTS. THE CONTRACTOR SHALL COORDINATE WITH INDIVIDUAL OWNERS ON PROVIDING ACCESS TO THEIR PROPERTY DURING APPROACH WORK. PROPERTY OWNERS SHALL BE NOTIFIED 24 HOURS IN ADVANCE AT ANY TIME ACCESS TO THEIR DRIVES WILL BE BLOCKED FOR MORE THAN ¼ HOUR. NO DRIVE SHALL BE BLOCKED FOR LONGER THAN 4 CONSECUTIVE HOURS, EXCEPT DURING CEMENT STABILIZATION PROCESS. BLOCKING DRIVES AND/OR CLOSING LANES FOR PERIODS OF TIME OTHER THAN AS PROVIDED HEREIN SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$500/DAY OR PORTION THEREOF FOR WHICH THESE PROVISIONS ARE NOT MET.

- DROPOFFS – THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION AT ANYTIME BETWEEN THE ROADWAY AND SIDE STREET APPROACHES/DRIVEWAY APPROACHES GREATER THAN 1.25 INCH. THE CONTRACTOR SHALL PLACE A 12:1 ASPHALT WEDGE FOR ALL RESULTING ELEVATION DIFFERENCES GREATER THAN 1.25 INCH PRIOR TO OPENING TO TRAFFIC. IF TYPE OF WORK REQUIRES, STEEL PLATES MAY BE USED. THE PAVING OF INTERSECTION APPROACHES AND DRIVEWAYS SHALL BE PERFORMED WITHIN 7 DAYS OF MAINLINE SURFACE COURSE BEING APPLIED AND A DROPOFF BEING CREATED BETWEEN THE NEW SURFACE COURSE AND THE MILLED/EXISTING SIDE ROAD OR DRIVEWAY SURFACE. THE CONTRACTOR MAY ELECT TO PLACE A 12:1 ASPHALT WEDGE IN LIEU OF COMPLETING THE PAVING, HOWEVER THE ASPHALT CONCRETE AND/OR STEEL PLATE USED FOR THE WEDGE SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 – MAINTAINING TRAFFIC AND SHALL INCLUDE THE REMOVAL OF THE WEDGE BEFORE THE INTERSECTION/DRIVEWAY IS PAVED.
- A QUANTITY OF 10 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
- PAVEMENT MARKINGS – THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO PROTECT THE EXISTING PAVEMENT MARKINGS IMMEDIATELY ADJACENT TO THE PROJECT LIMITS. ANY DAMAGE TO EXISTING PAVEMENT MARKINGS NOT WITHIN THE PROJECT LIMITS CAUSED BY THE PAVING OPERATION SHALL BE REPAIRED AT THE CONTRACTOR’S EXPENSE.
- THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 14 CONSECUTIVE CALENDAR DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$1000 PER DAY THAT THE TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMIT.
- LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK ON PROGRESS.
- ONLY DURING OFF–PEAK PERIODS (no ANY PERIOD OTHER THAN 6–8AM AND 3–6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.
- NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC ON SUNDAYS AND DURING ALL CITY HOLIDAYS LISTED BELOW:

NEW YEAR’S DAY	MARTIN LUTHER KING DAY
PRESIDENT’S DAY	MEMORIAL DAY
INDEPENDENCE DAY	LABOR DAY
COLUMBUS DAY	VETERAN’S DAY
THANKSGIVING DAY	THE DAY AFTER THANKSGIVING
CHRISTMAS DAY	
- SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.
- MARKING REPAIR AREAS – THE CONTRACTOR SHALL SET A WORK ZONE AT THE REQUEST OF THE ENGINEER TO ALLOW THE LAYOUT OF THE PARTIAL/FULL DEPTH PAVEMENT REPAIR AREAS. THIS WORK IS INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.
- THE CONTRACTOR SHALL PROVIDE, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL FLAGS, TYPE III BARRICADES, SIGNS, SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS AND INCIDENTALS RELATED THERETO AND AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, LATEST REVISION.
- SIGNS FURNISHED SHALL BE IN NEW OR LIKE NEW CONDITIONS. LIKE NEW SIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PROVIDING AND MAINTAINING LIGHTS, SIGNS, AND BARRICADES FOR THE MAINTENANCE OF TRAFFIC AND SAFETY OF HIS/HER WORK AT THE LOCATIONS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, AS DETERMINED BY THE ENGINEER.
- IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS AND PROVISIONS OF THE OMUTCD AND THE FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE ENGINEER SHALL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.
- ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISIONS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS, INCLUDING ITEM 614 – ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 5 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER. TRENCH OPENINGS SHALL BE PROTECTED AS PER ODOT SCD MT–101.90.

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE–CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

DETOUR NOTIFICATION

FOR POSSIBLE DETOURS, THE CONTRACTOR SHALL ADVISE THE CITY OF MASSILLON EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED, INCLUDING DETOUR SIGNS, SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR, INCLUDING DETOUR SIGNS, SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614, MAINTAINING TRAFFIC.

TIME LIMITATION, CURB RAMP

THE MAXIMUM ALLOWABLE TIME FOR THE CONTRACTOR TO HAVE AN INDIVIDUAL CURB RAMP AND ASSOCIATED SIDEWALK LEADING INTO THE CURB RAMP OUT OF SERVICE FOR THE REMOVAL AND REPLACEMENT SHALL BE 14 CONSECUTIVE CALENDAR DAYS (THE TIME PERIOD INCLUDES ALL WORK AND CURING TIME PERIOD).

AT THE CONCLUSION OF CONSTRUCTING OF THE CURB RAMP AND PRIOR TO OPENING TO PEDESTRIAN TRAFFIC THE CONTRACTOR SHALL ENSURE THAT THE REQUIREMENTS OF STANDARD CONSTRUCTION DRAWING BP–7.1 ARE MET. THE CONTRACTOR SHALL USE ASPHALT AS A WEDGE, OR SUBMIT ANOTHER METHOD APPROVED BY THE ENGINEER, TO ENSURE THE TRANSITION FROM THE CURB RAMP TO THE ROADWAY ARE PER STANDARD CONSTRUCTION DRAWING BP–7.1. ALL COSTS TO PERFORM THIS WORK SHALL BE INCIDENTAL TO THE ASSOCIATED PAY ITEMS FOR THE INSTALLATION OF THE CURB RAMP.

SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$1000 PER DAY PER AFFECTED RAMP THAT THE AFFECTED CURB RAMP REMAINS OUT OF SERVICE BEYOND 14 CONSECUTIVE CALENDAR DAYS.

ASPHALT PAVING LIMITATION

THE CONTRACTOR SHALL NOT ANTICIPATE OR SCHEDULE PLACING ASPHALT (ASPHALT SURFACE COURSE, ASPHALT INTERMEDIATE COURSE, ASPHALT CONCRETE BASE, ETC.) BETWEEN NOVEMBER 1 AND APRIL 1 WHEN SUBMITTING THEIR INITIAL PROGRESS SCHEDULE TO THE PROJECT ENGINEER AS SPECIFIED IN CMS SECTION 108.02A. THIS LIMITATION SHALL ALSO INCLUDE INITIAL BASE LINE SCHEDULES AND ALL UPDATES IF A CPM SCHEDULE IS REQUIRED.

ITEM 614 – LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE LEO(S) SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED UNLESS THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, THE CONTRACTOR SHALL PROVIDE AN OFFICIAL PATROL CAR (CAR WITH TOP–MOUNTED EMERGENCY FLASHING LIGHTS) AND A COPY OF THE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED TO THE PROJECT ENGINEER PRIOR TO THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
- FOR LANE CLOSURES: DURING INITIAL SET–UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG–TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.
- WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE REQUIRED.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST’S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONE.

THE LEOS WORK AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS’ DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO–WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR EACH ROAD.

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW–UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.



HA

ENGINEERS

PLANNERS

SURVEYORS

MAINTENANCE OF TRAFFIC NOTES

SANITARY SEWER EXTENSION

FOR: HABITAT FOR HUMANITY EAST CENTRAL OHIO, INC.

LOCATED IN THE CITY OF MASSILLON

STARK COUNTY, OHIO

DESIGN BY: JLR

DRAWN BY: JLR

REVIEWED BY: JLR

FIELD BY: JLR

DATE: 12/13/23

SCALES

HORIZ:

VERT:

CONTOUR INT:

REV. BY: DATE:

DESC:

REV. BY: DATE:

DESC:

REV. BY: DATE:

DESC:

REV. BY: DATE:

DESC:

HAMMONTREE & ASSOCIATES, LIMITED

ENGINEERS, PLANNERS, SURVEYORS

5233 STONEHAM RD. NORTH CANTON, OH 44720

PHN: (330) 499-8817 FAX: (330) 499-0149

TOLL FREE: 1-800-394-8817

www.hammontree-engineers.com

7