THE CITY OF WILLOWICK

E. 305TH STREET SEWER IMPROVEMENTS



OPWC AND ARPA PROJECT LAKE COUNTY, OHIO

JULY 2024

CITY COUNCIL:

MS. MONICA KOUDELA, COUNCIL PRESIDENT

MR. PATRICK MOHORCIC, COUNCIL MEMBER

MS. NATALIE ANTOSH, COUNCIL MEMBER

MS. THERESA BISBEE, COUNCIL MEMBER

MR. CHARLIE MALTA, COUNCIL MEMBER

MR. DAVID PHARES, COUNCIL MEMBER

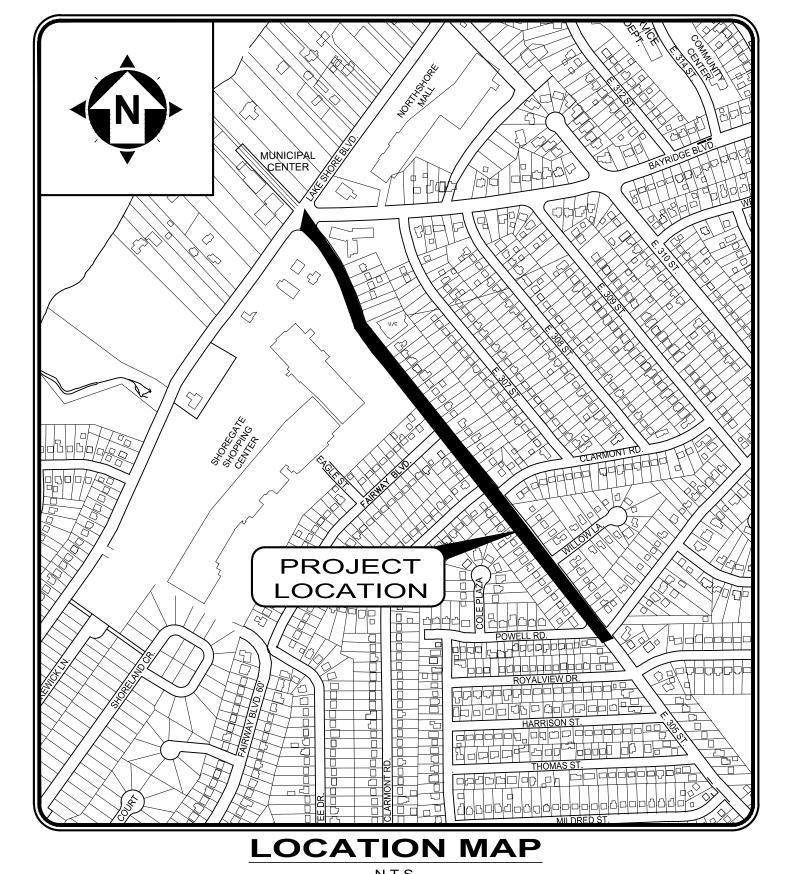
MR. DEVON MCFARLAND, COUNCIL MEMBER



OHIO 811 DESIGN SERIAL NUMBERS & UTILITY MEMBER LIST:

A334801634-00A A334801613-00A A334801691-00A

- 1. THE ILLUMINATING COMPANY
- 2. DOMINION ENERGY OHIO
- 3. LAKE COUNTY DEPARTMENT OF UTILITIES
- 4. AT&T OHIO
- 5. THE CITY OF WILLOWICK
- 1. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- 2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



Consultants engineers · architects · planners A Verdantas Company

ENGINEER'S PROJECT No. 241085

OWNER:

PROJECT SITE:

THE CITY OF WILLOWICK 30435 LAKESHORE BOULEVAR WILLOWICK, OH 44095 (440) 585-3700 PHONE

E 305TH STREET FROM LAKESHORE BOULEVARD TO WILLOWICK DRIVE.

CITY OFFICIALS:

MR. MICHAEL J. VANNI CITY MAYOR

MR. TODD SHANNON, SERVICE DIRECTOR

MS. CHERYL BENEDICT, FINANCE DIRECTOR

MS. STEPHANIE LANDGRAF, LAW DIRECTOR

MS JULIE KLESS, DIRECTOR OF RECREATION

MR. ROB DAUBEMIRE, POLICE CHEIF

MR. BILL MALOVRH, FIRE CHEIF

MR. SEAN BRENNAN, CHIEF HOUSING AND ZONING INSPECTOR

MR. ROB DAUBEMIRE, POLICE CHEIF

ENGINEER:

CT CONSULTANTS, INC. 8150 STERLING COURT MENTOR, OH 44060

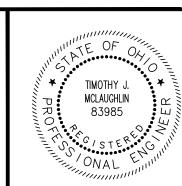
(440) 951-9000 PHONE (440) 951-7487 FAX

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TIMOTHY J. McLAUGHLIN

P.E. No. 83985

7/18/2024 DATE



DESIZIONAL CONSULTANTS

BY: AMM

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CITY OF WILLOWICK
E. 305TH STREET
SEWER IMPROVEMENTS
MILLOWICK, OHIO LAKE COUNTY

PROJECT NO:

241085

DRAWING NAME

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- 1.0 GENERAL NOTES
- 1.01 THE WORK CONTEMPLATED UNDER THIS CONTRACT INCLUDES LINING SANITARY SEWER AS DETAILED IN THE PLANS, CLEANING AND LINING OF STORM AND SANITARY MANHOLES, LINING OF SANITARY LATERALS OR REPLACEMENT OF STORM AND SANITARY LATERALS, AS NOTED IN PLANS OR DIRECTED BY THE ENGINEER, POINT REPAIRS AS NOTED IN THE PLANS OR AS DIRECTED BY THE ENGINEER, DEPOSIT CUTS AS NOTED, AND THE PERFORMANCE OF OTHER INCIDENTAL WORK.

THE CONTRACTOR WILL DO 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.

- 1.02 A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED BY THE OWNER 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.
- 1.03 ACCESS TO ALL DRIVEWAYS WILL BE MAINTAINED AT ALL TIMES EXCEPT THE TIME WHEN SEWER INSTALLATION AND PAVEMENT REPLACEMENT WILL NOT PERMIT.
- 1.04 IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL PROPERTIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR WILL FURNISH, MAINTAIN AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGGERS, SIGNING AND OTHER TRAFFIC CONTROLS TO INSURE THE SAFETY OF PERSONS AND VEHICLES DURING CONSTRUCTION WITHIN THE PROJECT LIMITS.

MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS - REVISION 20.

- 1.05 THE CONTRACTOR WILL 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. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE LOCATION OF THE DISPOSAL SITE AND WRITTEN PERMISSION FOR USE OF THE SITE FROM THE PROPERTY OWNER. THE COST FOR SECURING AND MAINTAINING THE DISPOSAL SITE WILL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL.
- 1.06 ALL OVER-THE-ROAD VEHICLES USED ON THE PROJECT BY ALL CONTRACTORS AND SUBCONTRACTORS WILL BE CLEARLY MARKED SHOWING ITS COMPANY AFFILIATION.
- 1.07 ALL SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER FOR PRELIMINARY CHECKING. THE ENGINEER SHALL FORWARD THE CHECKED SHOP DRAWINGS TO THE OWNER FOR FINAL CHECKING AND APPROVAL. SHOP DRAWINGS MUST BE APPROVED PRIOR TO ORDERING ANY MATERIALS.
- 1.08 BEFORE THE OWNER WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTEE 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 ADJUSTER HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
- 1.09 IN THE EVENT THAT ANY LEAD SERVICE CONNECTION IS ENCOUNTERED DURING THIS PROJECT BY THE CONTRACTOR, LAKE COUNTY DEPARTMENT OF UTILITIES (LCDU) SHALL BE IMMEDIATELY NOTIFIED AND WORK AT THAT LOCATION SHALL CEASE UNTIL DIRECTION ON HOW TO PROCEED IS MADE BY LCDU. CONTRACTOR SHALL CONTINUE WITH WORK ONCE LCDU GIVES NOTICE TO PROCEED WITHOUT ADDITIONAL PAYMENT FOR REMOBILIZATION.
- 2.0 EXCAVATION, BACKFILL AND COMPACTION
- 2.01 ALL EXCAVATION WILL BE CONSIDERED UNCLASSIFIED, NO ADDITIONAL COMPENSATION WILL BE ALLOWED THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
- 2.02 ALL BACKFILL WILL BE AS DESCRIBED IN THESE PLANS AND SPECIFICATIONS.
- 2.03 SLAG PRODUCTS OR CRUSHED CONCRETE WILL NOT BE PERMITTED FOR BEDDING, BACKFILL, OR TRAFFIC
- 2.04 ALL UTILITY LINES CROSSING THE NEW SEWER TRENCH, (I.E. STORM SEWERS, STORM LATERALS, WATERLINES, WATERLINE CONNECTIONS, SANITARY SEWERS, SANITARY LATERALS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OCT CONDUITS, CABLE TV LINES) 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 UNLESS ANY OF THE ABOVE UTILITIES ARE ENCOUNTERED AND NOT SHOWN ON THE DRAWINGS.
- 2.05 ANY COMPACTION TESTING REQUIRED AT THE SOLE DISCRETION OF THE ENGINEER SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- 2.06 THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND MANAGEMENT OF ALL GROUNDWATER AND SURFACE WATER AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. ALL CONDUIT SHALL BE INSTALLED IN A DRY AND STABLE TRENCH.
- 3.0 <u>SANITARY SEWER</u>
- 3.01 ALL SANITARY SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION 331000.
- 3.02 CURED IN PLACE PIPE (CIPP) SHALL BE IN ACCORDANCE WITH ASTM F1216 AND SPECIFICATION 330130.72 OR 330130.74.
- 3.03 FOLD AND FORM LINING SHALL BE IN ACCORDANCE WITH ASTM F1871 AND SPECIFICATION SECTION 330130.79.
- 3.04 ROOF DRAINS, FOUNDATION DRAINS, AND ANY OTHER CLEAN WATER CONNECTION TO THE SANITARY SEWER
- 3.05 SANITARY SEWER FLOW IS TO BE MAINTAINED AT ALL TIMES.
- 3.04 LOCATOR TAPE SHALL BE INSTALLED ON ALL SANITARY SERVICE LATERALS
- 3.05 FINAL TELEVISION INSPECTION OF CONDUIT SHALL BE PERFORMED BY AN EXPERIENCED COMPANY AND IN A FORMAT SATISFACTORY TO THE OWNER. THE ENGINEER SHALL BE PROVIDED WITH UNEDITED VIDEO AND TWO (2) COPIES OF THE VIDEO LOG.
- 3.06 SANITARY LATERALS SHALL BE CIPP LINED FROM THE MAINLINE WYE/ TEE CONNECTION TO THE RIGHT OF WAY LINE, TYPICALLY NEAR THE CLEAN OUT, AS NOTED ON THE PLANS AND IN ACCORDANCE WITH SPECIFICATION SECTION 330130.74. LOCATIONS WHERE LINING IS NOT FEASIBLE, THE LATERALS SHALL BE REPLACED OR HAVE NECESSARY POINT REPAIRS MADE TO ALLOW LINING TO BE PREFORMED. THE ENGINEER SHALL DIRECT REPLACEMENT AND POINT REPAIR WORK AS NECESSARY.
- 3.07 ELIMINATE ANY DISCONNECTED WYE'S TO LOTS THAT HAVE AN EXISTING HOUSE.
- 3.08 IF A VACANT LOT IS WITHIN THE SECTION OF THE SEWER THAT IS BEING LINED, A NEW LATERAL SHALL BE PROVIDED WITH A WYE POLE.
- 3.09 ALL SANITARY LINING SHALL BE DONE STRICTLY WITHIN MANUFACTURERS SPECIFICATIONS.
- 3.10 ALL NEW TEST TEES SHALL BE IN ACCORDANCE WITH THE CITY OF WILLOWICK STANDARDS AND DETAILS.
- 3.11 CONTRACTOR SHALL TAKE SPECIAL PROTECTIONS AS NECESSARY TO PREVENT ANY HARMFUL OR TOXIC BYPRODUCTS, INCLUDING FUMES PRODUCED DURING THE CIPP CURING PROCESS, FROM ENTERING INTO BUILDINGS CONNECTED TO THE SEWER WHERE CIPP IS BEING INSTALLED. THIS SHALL INCLUDE ENSURING FUMES WILL NOT SEEP INTO BUILDINGS THROUGH HOMES BY EITHER TEMPORARILY PLUGGING LATERALS THROUGH CLEANOUTS, ENSURING ALL SANITARY TRAPS IN HOMES ARE PROPERLY FILLED, AND USING STYRENE BLOCKER AS REFERENCED IN SPECIFICATION 330130.72 AND 330130.74 . 48 HOUR NOTIFICATION TO EACH PROPERTY CONNECTED TO THE SEWER SHALL BE PROVIDED PRIOR TO WORK COMMENCING.

- 4.0 EXISTING UTILITIES
- 4.01 THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE OWNER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.
- 4.02 BEFORE ANY WORK IS STARTED, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE", AT 1-800-362-2764, A MINIMUM OF 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.
- 4.03 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.
- 4.04 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.
- 4.05 NO SEPARATE PAYMENT WILL BE MADE FOR UTILITY SUPPORT, POLE SUPPORT OR POLE RELOCATION. THE CONTRACTOR SHALL INCLUDE THE COST OF UTILITY SUPPORT, POLE SUPPORT AND POLE RELOCATION IN THE UNIT PRICE(S) BID FOR OTHER RELATED ITEMS OF WORK.
- 4.06 CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL THE EXISTING GAS, WATER, ELECTRIC, CABLE, FIBER, TELEPHONE, SANITARY 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.
- THE CONTRACTOR SHALL ANTICIPATE ONE SERVICE CONNECTION FOR EACH UTILITY SHOWN TO EACH PROPERTY, EVEN IF NOT SHOWN ON PLAN.
- 4.07 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF THE EXISTING UTILITY OWNERS AND THE UTILITY PROTECTION SERVICE IN THE FOLLOWING LIST IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE.

THE UTILITY OWNERSHIPS, AS REPORTED BY OUPS, ARE AS LISTED ON THE COVER SHEET OF THIS PLAN SET AND THE CONTACT INFORMATION FOR EACH UTILITY, IF AVAILABLE, IS LISTED BELOW.

- DOMINION ENERGY OHIO (GAS) 320 SPRINGDALE DRIVE, STE. 320 AKRON, OHIO 44333 PHONE: (330) 664-2409 ATTN: BRYAN D. DAYTON GENERAL PHONE: (800) 362-7557 RELOCATION@DOMINIONENERGY.COM
- AT&T OHIO (COMMUNICATIONS) 13630 LORAIN AVENUE, 2ND FLOOR CLEVELAND, OHIO 44111 PHONE: (330) 401-8053 ATTN: JOHN ROOK DIRECT: (212) 476-6142 GENERAL PHONE: (216) 298-1513 PJ8191@ATT.COM

105 MAIN STREET

PAINESVILLE, OHIO 44077

PHONE: (440) 350-2645

LAKE COUNTY DEPARTMENT OF UTILITIES

ATTN: RANDY ROTHLISBERGER, P.E.

- THE ILLUMINATING COMPANY (ELECTRIC) 6896 MILLER ROAD BRECKSVILLE, OHIO 44141 ATTN: TIM DENZLER (DESIGN SUPERVISOR) PHONE: (440) 546-8711 TJDENZLER@FIRSTENERGYCORP.COM
- THE CITY OF WILLOWICK TODD SHANNON CITY OF WILLOWICK SERVICE DIRECTOR 31230 VINE STREET WILLOWICK, OHIO 44095 PHONE: (440) 585-3700
- 4.08 ALL ROAD CLOSURE MUST BE APPROVED BY THE OWNER. IN THE EVENT OF A ROAD CLOSURE THE CONTRACTOR SHALL NOTIFY THE CITY OF WILLOWICK, A MINIMUM OF 48 HOURS IN ADVANCE.
- 4.09 SERVICE CONNECTIONS AND LATERALS ARE SHOWN ON THE PLANS USING RECORD DRAWINGS AND G.I.S DATA . THE CONTRACTOR SHALL FIELD VERIFY AND PROTECT CONNECTIONS AND LATERALS DURING CONSTRUCTION AND REPAIR ANY DAMAGE DUE TO CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR LOCATION, PROTECTION, AND/OR REPAIR.
- 5.0 GRASS RESTORATION
- 5.01 GRASS AREAS TO BE RESTORED SHALL BE SEEDED UNLESS OTHERWISE SHOWN ON THE CONTRACT
- 5.02 SEEDING AND/OR SODDING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 329200.19 OF THE DETAILED SPECIFICATIONS.
- 5.03 ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY SEEDING AND MULCHING RATHER THAN SODDING UNLESS OTHERWISE SHOWN ON PLANS, DETAILS, OR SPECIFICATIONS.
- 5.04 SEEDING AND MULCHING OF ALL DISTURBED AREAS SHALL IMMEDIATELY FOLLOW EXCAVATION AND SEWER INSTALLATION OPERATIONS.
- 5.05 ALL EXPOSED SLOPES ARE TO BE SEEDED AND MULCHED IMMEDIATELY AFTER GRADING WORK IS COMPLETED. IF, IN THE OPINION OF THE ENGINEER, ADDITIONAL EROSION AND SEDIMENTATION CONTROLS ARE REQUIRED, THEY SHALL BE INSTALLED UNDER HIS DIRECTION IN ACCORDANCE WITH APPLICABLE SECTIONS OF ODOT ITEM 207 AND STANDARD CONSTRUCTION DRAWING NO. MC-11.
- 6.0 DRAINAGE, SOIL EROSION, SEDIMENT AND DUST CONTROL
- 6.01 ALL SWALES, OR DITCHES DISTURBED OR DESTROYED BY THE CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 6.02 POSITIVE DRAINAGE OF ALL CONSTRUCTION AREAS SHALL BE MAINTAINED AT ALL TIMES.
- 6.03 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 SOIL AND WATER CONSERVATION DISTRICT.
- 6.04 TEMPORARY OR PERMANENT EROSION CONTROL MATTING SHALL BE UTILIZED FOR STABILIZATION OF ALL DISTURBED SLOPE AREAS GREATER THAN 2:1 (HORZ:VERT). PERMANENT EROSION CONTROL SHALL BE UTILIZED ON SEVER SLOPES GREATER THAN 1-1/2:1, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 6.05 THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY, SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE PERFORMED DAILY OR AS DIRECTED BY THE OWNER, TO MAINTAIN ALL PAVED AREAS AFFECTED BY THE CONSTRUCTION.
 - PAYMENT FOR ALL SOIL EROSION, SEDIMENT AND DUST CONTROL MEASURES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER VARIOUS ITEMS.

- 7.0 TREE PROTECTION
- 7.01 SPECIAL CARE SHALL BE TAKEN TO AVOID DAMAGE TO TREES AND THEIR ROOT SYSTEM. THE OPERATION OF ALL EQUIPMENT, PARTICULARLY WHEN EMPLOYING BOOMS, THE STORAGE OF MATERIALS AND THE DISPOSITION OF EXCAVATED MATERIALS SHALL BE CONDUCTED IN A MANNER WHICH WILL NOT INJURE TREES, TRUNKS, BRANCHES OR THEIR ROOTS UNLESS SUCH TREES ARE DESIGNATED BY THE ENGINEER FOR REMOVAL.
- 8.0 MONUMENT PROTECTION
- 8.01 PROPERTY PINS AND MONUMENTS ALONG THE ROUTE OF 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.
- 9.0 MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS
- 9.01 WHEN MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS INTERFERE WITH CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND ERECT THEM IN A TEMPORARY LOCATION DURING CONSTRUCTION (EXCEPT FENCES), AFTER COMPLETION OF THE CONSTRUCTION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL ERECT THE MAILBOXES, FENCES, NEWSPAPER BOXES OR STREET SIGNS AND SUPPORTS IN A PERMANENT LOCATION IN ACCORDANCE WITH THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE WORK SHALL BE INCLUDED IN THE UNIT PRICES BID FOR OTHER ITEMS.
- 10.0 RESTORATION
- 10.01 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. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED BY THE END OF THE SAME WORK DAY.
- 10.02 ALL EXISTING STORM SEWER FACILITIES, INCLUDING TILE, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR RECONNECTED TO THE EXISTING OR PROPOSED SYSTEM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL INCLUDE THE COST OF SUCH WORK IN THE UNIT PRICE FOR OTHER RELATED ITEMS OF WORK.
- 10.03 RESTORATION SHALL INCLUDE SEEDING AND MULCHING OF DISTURBED AREAS, RESTORATION OF EXISTING DRIVES AND FINAL CLEAN UP.
- 11.0 MATERIAL STORAGE
- 11.1 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.
- 11.02 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. NO EXTRA PAYMENT WILL BE MADE BY THE OWNER FOR THE REMOVAL AND DISPOSAL OF DEBRIS.
- 12.0 MATERIAL TESTING
- 12.01 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL AND EQUIPMENT TESTING. THE OWNER MAY REQUIRE SUBGRADE COMPACTION TESTING, ASPHALT AND CONCRETE QUALITY CONTROL TESTING WHICH WILL BE PAID FOR BY THE OWNER.
- 13.01 THE CONTRACTOR SHALL NOT COMMENCE WITH ANY FORM OF CONSTRUCTION WITHOUT CONTACTING THE OWNER, AS APPROPRIATE, A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITY TO ARRANGE FOR OBSERVATION. IF ANY CHANGE IN THE WORK SCHEDULE BECOMES NECESSARY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE CITY TO AVOID UNNECESSARY OBSERVATION COSTS. IF NO NOTIFICATION IS MADE IN REGARDS TO CANCELLATION OF WORK, THE CONTRACTOR WILL BE CHARGED FOR THE TIME INCURRED.
- 14.0 PROHIBITED CONSTRUCTION ACTIVITIES
- 14.01 DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS. EVEN WITH THE PERMISSION OF THE PROPERTY OWNER;
- 14.02 LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS;
- 14.03 INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS;
- 14.04 PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RFI FASF:
- 14.05 DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO;
- 14.06 PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM;
- 14.07 DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA:
- 14.08 DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS;
- 14.09 OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT;
- 14.10 DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, RILLING, BUFFING, GRINDING, POLISHING, SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR COMMERCIAL PROFESSIONAL, QUASI-PUBLIC OR PUBLIC PLACES OF HUMAN OCCUPATION;
- 14.11 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;
- PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER;
- 14.13 OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OR 8:00 AM AND 5:00 P.M. OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS; AND

14.12 RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC

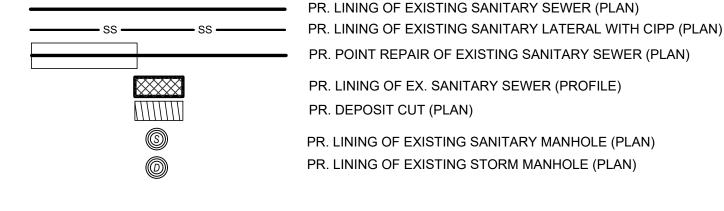
- 14.14 CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING
 - BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES;
- BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR
- BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF **BUILDING INGRESS AND EGRESS**

LEGEND & SYMBOLOGY:

EXISTING LINEWORK AND SYMBOLS

 			EX. CONCRET	E SIDEWALK
 			EX. EDGE OF F	PAVEMENT
 WS	WS	— WS —	EX. WATER SE	RVICE
 — — ss —	ss	— ss ——	EX. SANITARY	SERVICE LATERAL
 			EX. STORM SE	WER LATERAL
 	WAT		EX. WATER LIN	NE / WATER MAIN
 	SAN —		EX. SANITARY	SEWER
 	STM —		EX. STORM SE	WER
 	——— GAS —		EX. GAS LINE	
 			EX. PROPERT	Y LINE
 —— EX. R/W —			EX. RIGHT-OF-	WAY
	\otimes		EX. WATER VA	LVE
	<u></u>		EX. FIRE HYDF	RANT
	\otimes		EX. WATER SE	RVICE CORP. STOP
			EX. SANITARY	MANHOLE
			EX. STORM MA	ANHOLE
			EX. STORM CU	IRB & GUTTER INLE

PROPOSED LINEWORK AND SYMBOLS



EX. STORM CIRCLE INLET

EX. GAS VALVE

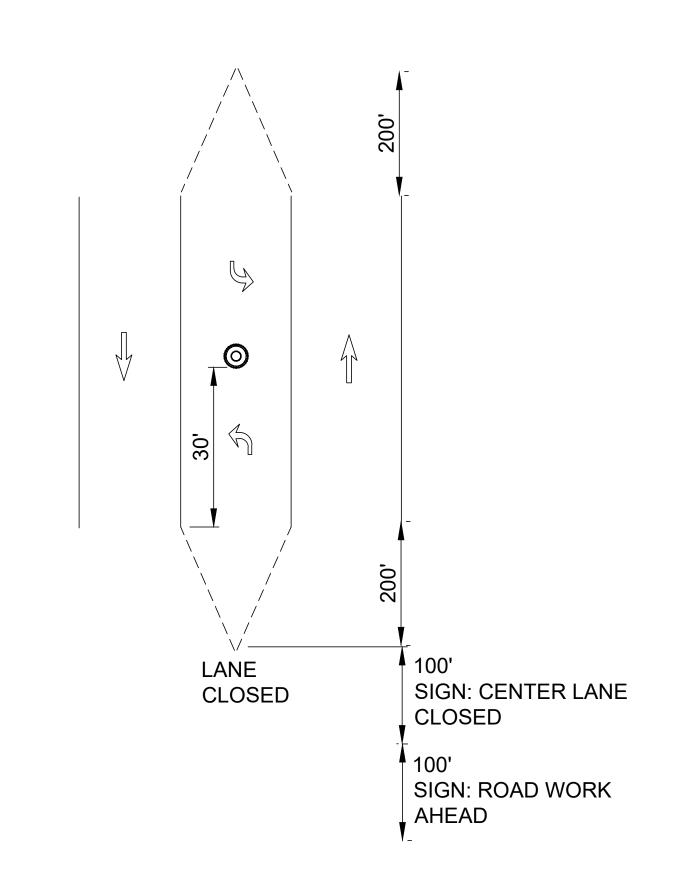
Sheet List Table						
Sheet Number	Sheet Title	Sheet Description				
1	COVER SHEET	00G-01				
2	GENERAL NOTES INDEX & SYMBOLOGY	00G-02				
3	MAINTENCE OF TRAFFIC DETAIL	00G-03				
4	MAINTENCE OF TRAFFIC NOTES	00G-04				
5	EROSION AND SEDIMENT CONTROL DETAILS	SWPP-01				
6	PLAN AND PROFILE STA. 0+00 TO 4+50	10C-01				
7	PLAN AND PROFILE STA. 4+50 TO 9+75	10C-02				
8	PLAN AND PROFILE STA. 9+75 TO 14+50	10C-03				
9	PLAN AND PROFILE STA. 14+50 TO 19+50	10C-04				
10	PLAN AND PROFILE STA. 19+50 TO 24+50	10C-05				
11	PLAN AND PROFILE STA. 24+50 TO END	10C-06				
12	CONSTRUCTION DETAILS-1	10C-07				
13	CONSTRUCTION DETAILS-2	10C-08				
14	IMPROVEMENTS SCHEDULE	10C-09				



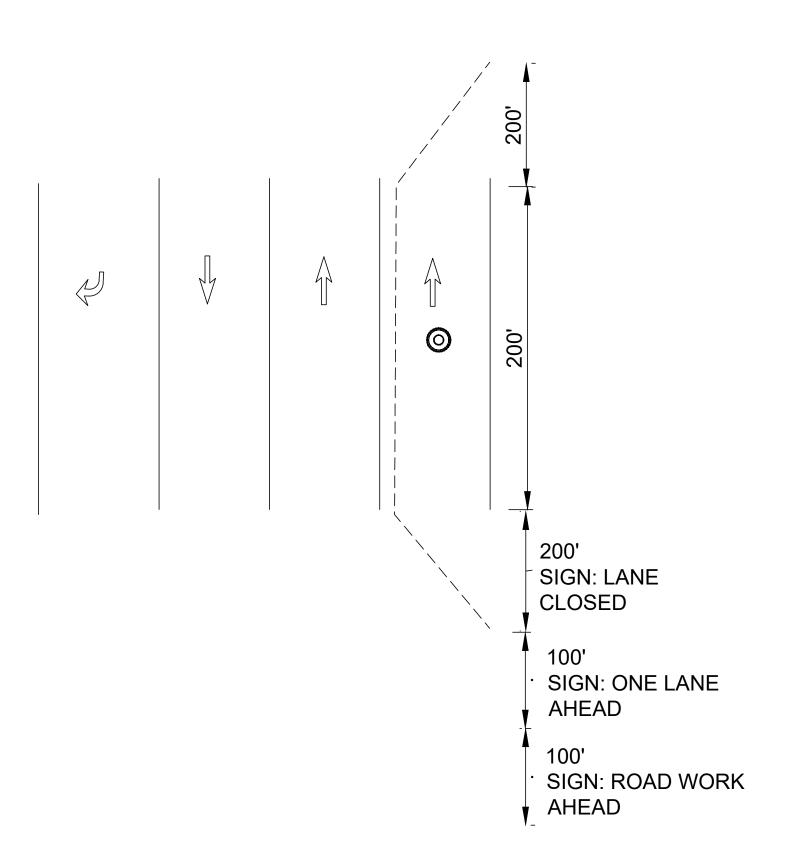
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PROJECT NO: 241085 DRAWING NAME 00G-02 SHEET

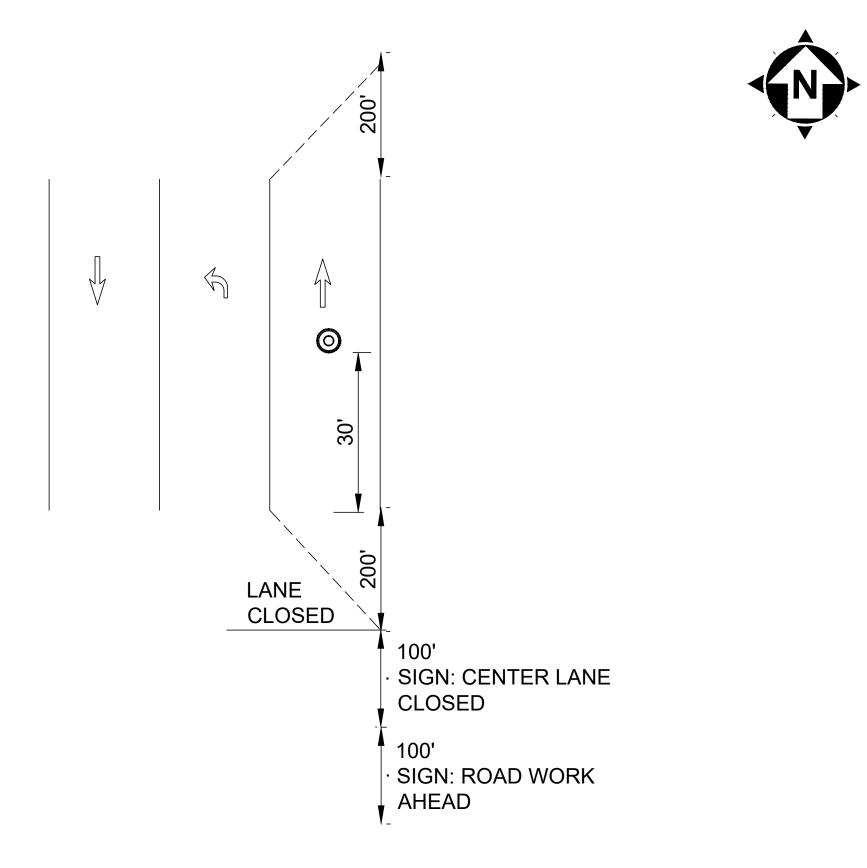


CENTER LANE CLOSURE, 3 LANES NOT TO SCALE



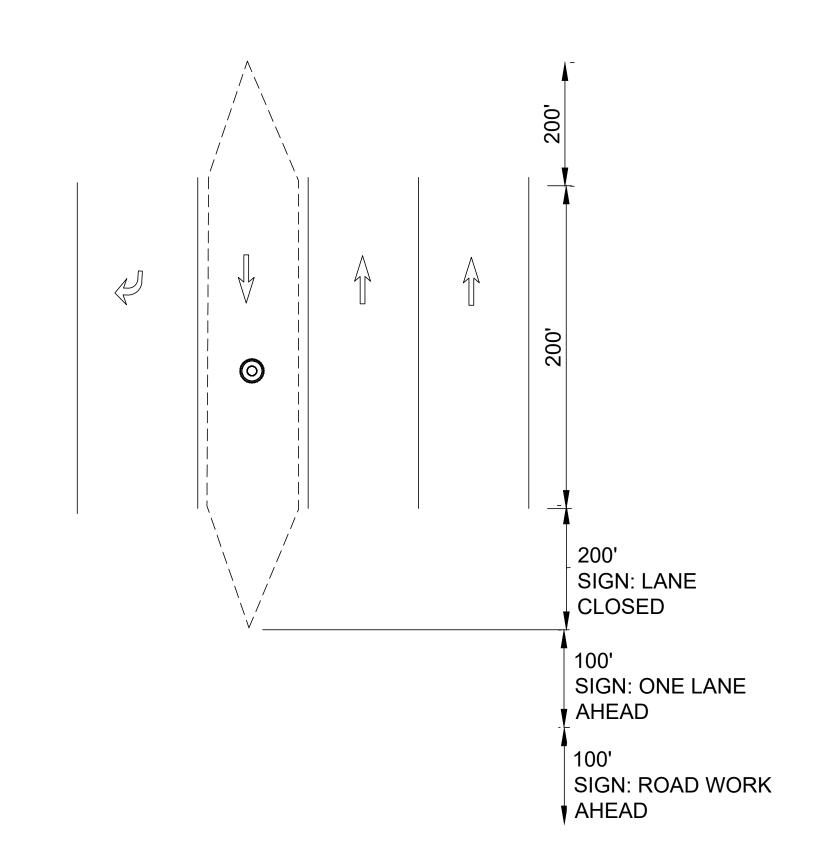
CURB LANE CLOSURE, 4 LANES

NOT TO SCALE



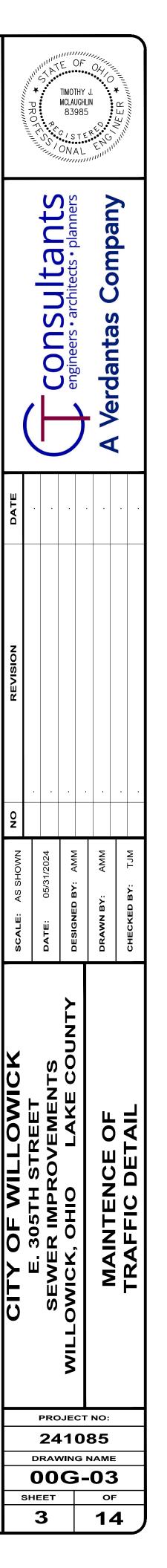
CURB LANE CLOSURE, 3 LANES

NOT TO SCALE



LANE CLOSURE, 4 LANES

NOT TO SCALE



NOTES:

FLAGGERS

1. Flaggers, one for each direction, shall be used to control traffic continuously for as long as a one lane operation is in effect. The flaggers shall be able to communicate with each other at all times.

LENGTH OF CLOSURE

2. Several small work areas close together should be combined into one work zone. However, the closure shall not be more than 2000' long unless approved by the Engineer. The minimum length between closures shall be 2000'. Only one side of the road shall be closed in any one work zone.

SIGN LOCATION AND SPACING

- 3A. The minimum spacing between work zone signs is shown in Table I. Maximum spacing should not be greater than 1.5 times the distances shown in Table I.
- 3B. Sign spacing should be adjusted to avoid conflict with existing signs. Minimum spacing to existing signs shall be 200' for speeds of 45 mph or less and a minimum of 400' for speeds of 50 mph or greater.
- 3C. The location of the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.

ADJUSTMENTS FOR SIGHT DISTANCE

4. The location of the flagger station and the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.

BASIC SIGNING

- 5A. ROAD WORK AHEAD (W20-1) signs shall be provided on entrance ramps or roadways entering the work limits.
- 5B. END ROAD WORK (G20-2) signs are only required for lane closures of more than 1 day. It is intended that these signs be placed on the mainline, on all exit ramps, and on roadways exiting the work limits.
- 5C. Overlapping of signing for adjacent projects should be avoided where the messages could be confusing. Any ROAD WORK AHEAD (WŽO-1) or END ROAD WORK (GŽO-2) sign which falls within the limits of another traffic control zone shall be omitted or covered during the period when both projects are active.

SIGNING DETAILS

- 6A. The Advisory Speed (W13-1P) plaque shall be used when specified in the plan.
- 6B. 36" warning signs may be used when the approach speed limit is 40 mph or less.

FLASHING WARNING LIGHTS

7. Type A flashing warning lights shown on the ROAD WORK AHEAD (WZO-1) signs and on the LANE CLOSED AHEAD (W20-5) signs are required whenever a night lane closure is necessary.

DRUMS / CONES

- 8A. Drum spacing shall be as follows:
 - a) Spacing along the closure shall be 40' center-to-center. b) Spacing along the approach taper shall be 10' centerto-center.
- 8B. Cones may be substituted for drums as follows:
 - a) Cones used for daytime traffic control shall have a minimum height of 28".
 b) Cones used for nighttime traffic control shall have
 - a minimum height of 42".
 - c) Use of cones at night shall be prohibited along tapers.
- 8C. Provisions shall be made to stabilize the cones and drums to prevent them from blowing over.
- 8D. A minimum of two drums shall be used to close the paved shoulder.

(RESERVED FOR FUTURE USE)

9A. (intentionally blank)

AREA ILLUMINATION

- 10A. Adequate area illumination of each flagger station shall be provided at night. Use of portable flood lighting is acceptable. Luminaires shall be located adjacent to each flagger station.
- 10B. To ensure the adequacy of floodlight placement and the elimination of glare, the Contractor and the Engineer shall drive through the worksite each night when the lighting is in place. Light placement and shielding shall be adjusted to the satisfaction of the Engineer.

INTERSECTION / DRIVEWAY ACCESS

- 11. Within the length of closure, provision shall be made to control trăffic entering from intersecting streets and major drives as necessary to prevent wrona-way movements and to keep vehicles off of new pavement not ready for traffic'. The Contractor shall:
 - a) Place across the closed lane, either three drums (cones) or barricades, and/or
 - b) Provide an additional flagger at every public street intersection and major driveway.

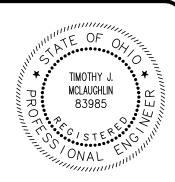
Drums (cones) placed across the closed lane shall be located 25' beyond the projected pavement edges of the driveway or cross highway, as shown in Standard Construction Drawings (SCDs MT-97.11 or MT-97.12. For barricades, see SCD MT-101.60.

Existing STOP signs shall be relocated as necessary to assure proper location for the traffic conditions.

The method of control shall be subject to the approval of the Engineer.

SHADOW VEHICLE

- 12A. The shadow vehicle shall be in place and unoccupied whenever workers are in the work area. This vehicle shall be removed from the pavement whenver workers are not in the work area.
- 12B. The shadow vehicle shall be equipped with a highintensity yellow rotating, flashing, oscillating, or strobe light(s).
- 12C. The shadow vehicle shall be equipped with a truckmounted or trailer attenuator (TMA) in accordance with CMS 614.03 when called for in the plans.

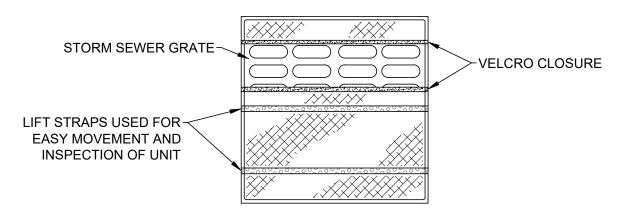


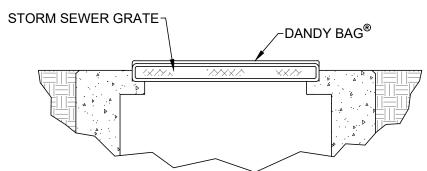
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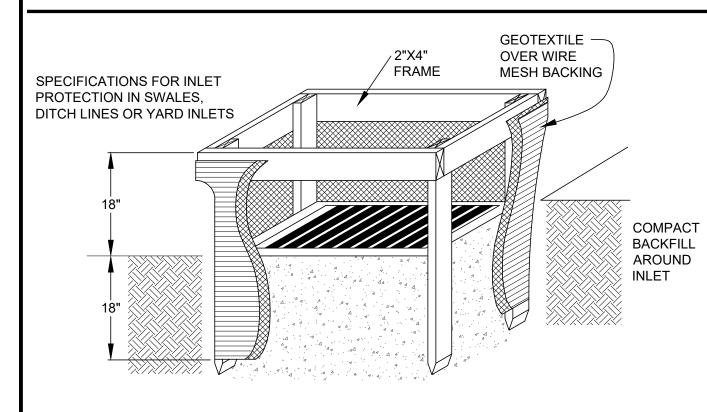
241085 DRAWING NAME





INLET PROTECTION ALTERNATIVE DANDY BAG DETAIL

NOT TO SCALE



SPECIFICATIONS FOR INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS:

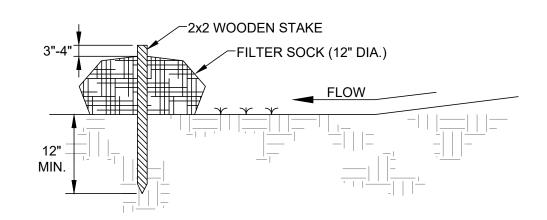
- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
- 2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- 3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-INCH CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-INCH POSTS SHALL BE DRIVEN 1 FOOT INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-BY-4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
- 4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- 7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

INLET PROTECTION

NOT TO SCALE

RESTORATION/SEDIMENTATION AND EROSION CONTROL

- 1. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND OTHER AREAS AS SHOWN ON PLANS SHALL BE PROPERLY RESTORED WITH 4" OF TOPSOIL, SEEDING AND MULCHING PER THE SPECIFICATIONS.
- 2. IN ALL DISTURBED AREAS THE CONTOURS WILL BE RESTORED IN A MANNER THAT MAINTAINS EXISTING DRAINAGE PATTERNS. FOLLOWED BY SEEDING AND MULCHING. IF, DUE TO WEATHER, FINAL GRADING CANNOT BE ACCOMPLISHED IMMEDIATELY, TEMPORARY SEEDING & MULCHING, WITHIN SEVEN DAYS, WILL BE USED UNTIL FINAL RESTORATION CAN OCCUR.
- 3. SILT FENCING SHALL BE EXTRA STRENGTH SYNTHETIC FILTER FABRIC HAVING A MINIMUM FLOW RATE OF 0.3 GA/SQ.FT/MINUTE AND SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0°F. TO 120°F. SEE STANDARD DETAIL.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING INSPECTIONS OF ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER ALL STORMS THAT PRODUCE MORE THAN ONE-HALF (1/2") INCH TOTAL RAINFALL. ANY NEEDED REPAIRS SHALL BE PERFORMED IMMEDIATELY. THE CONTRACTOR SHALL DOCUMENT ALL INSPECTIONS AND ANY REPAIRS THAT ARE DONE TO MAINTAIN EFFICIENCY.
- 5. CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS, DRIVES OR WALKS BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.
- 6. THE TOTAL DISTURBED AREA IS LESS THAN ONE ACRE.



MATERIALS - COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".

- 1. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES; GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1; ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
- 2. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
- 3. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

- 1. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- 2. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY
- REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED
- WITH A MORE EFFECTIVE ALTERNATIVE.
- 4. REMOVAL FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

SILT FENCE ALTERNATIVE FILTER SOCK DETAIL

NOT TO SCALE

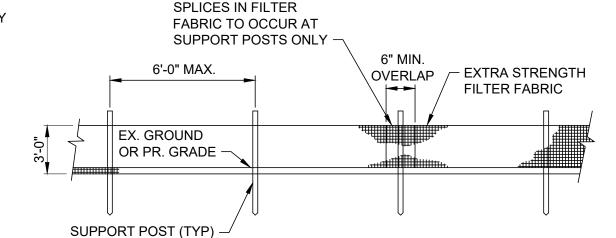
SILT FENCE NOTES:

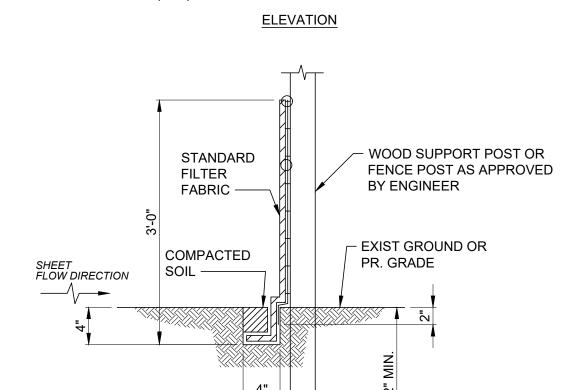
- 1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- 2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- 3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
- WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE. WHERE POSSIBLE VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT
- 5. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 6. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 INCHES OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH-DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
- SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
- 9. MAINTENANCE SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
- 9.1. THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED,
- ACCUMULATED SEDIMENT SHALL BE REMOVED, OR
- 9.3. OTHER PRACTICES SHALL BE INSTALLED.

10. SILT FENCE MATERIALS

- 10.1. FENCE POSTS THE LENGTH SHALL BE A MINIMUM OF 32 INCHES LONG. WOOD POSTS WILL BE 2 X 2 INCH
- HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FEET.
- 10.2. SILT FENCE FABRIC (SEE CHART BELOW):

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 PSI MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./F2 MAXIMUM	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM-G-26





SECTION

SILT FENCE NOT TO SCALE

EROSION CONTROL TIMETABLE

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PERM. SEEDING				0	8	8	8	8	0	0		
SODDING			8	8	8	8	8	8	8	8		
MULCHING	0	0	0	0	0	0	0	0	0	0	0	0

⊗ IRRIGATION NEEDED

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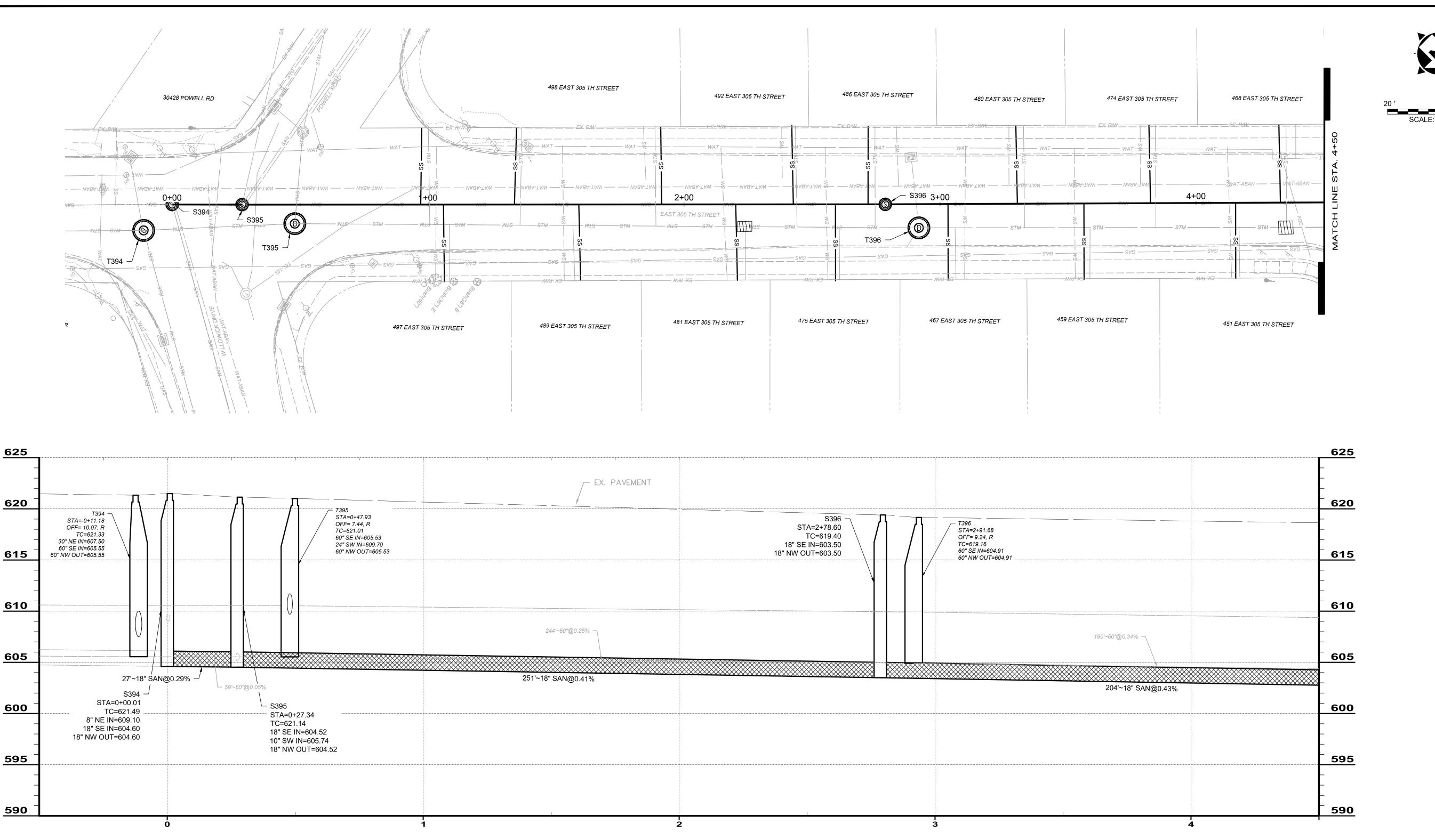
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241085 DRAWING NAME SWPP-01 SHEET

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PROJECT NO:

14



E. 305 TH STREET STATIONING

GENERAL NOTES:

- 1. CONTRACTOR SHALL CLEAN AND TELEVISE SEWER PRIOR TO WORK. CCTV SHALL BE REVIEWED BY THE THE ENGINEER BEFORE AUTHORIZATION TO COMPLETE IMPROVEMENTS. DIRECTION OF ANY ADDITIONAL REPAIRS NOT CURRENTLY SHOWN ON PLANS WILL BE MADE PRIOR TO COMMENCEMENT OF ANY IMPROVEMENTS. HEAVY CLEANING IN THE SANITARY SEWER SHALL BE PERFORMED AS NECESSARY AND AS DIRECTED BY THE ENGINEER TO COMPLETE LINING ITEMS.
- 2. POINT REPAIRS AND DEPOSIT CUTS NOTED ON THE PLANS ARE APPROXIMATE AND BASED ON PREVIOUS CCTV COMPLETED BY THE CITY. CONTRACTOR SHALL COMPLETE
- CCTV PRIOR TO STARTING ANY REPAIRS TO CONFIRM LOCATION OF ALL REPAIRS. CCTV SHALL BE REVIEWED BY ENGINEER FOR ANY FURTHER REPAIRS NEEDED. 3. CONTRACTOR IS RESPONSIBLE TO CONFIRM AND VERIFY ANY ADDITIONAL INLETS (ACTIVE OR INACTIVE) ENTERING INTO THE SEWER. ALL INLETS SHALL REMAIN ACTIVE OR
- RESTORED AT THE COMPLETION OF CONSTRUCTION. 4. POINT REPAIRS SHALL BE MADE TO DISTURB THE LEAST AMOUNT OF PAVEMENT, CURB AREA, AND/OR GRASS AREA AS MUCH AS POSSIBLE. THE CONTRACTOR SHALL
- REPLACE ALL PAVEMENT TO MATCH EXISTING CONDITIONS AND PER CONSTRUCTION DETAILS WHEN DOING WORK WITHIN THE STREET.
- 5. CONTRACTOR TO LINE SANITARY SEWER USING CURED-IN-PLACE LINING OR FOLD AND FORM PIPE LINING. ENGINEER TO MAKE FINAL DETERMINATION BASED ON PRICING.



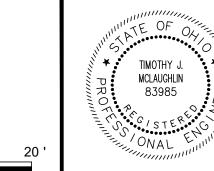
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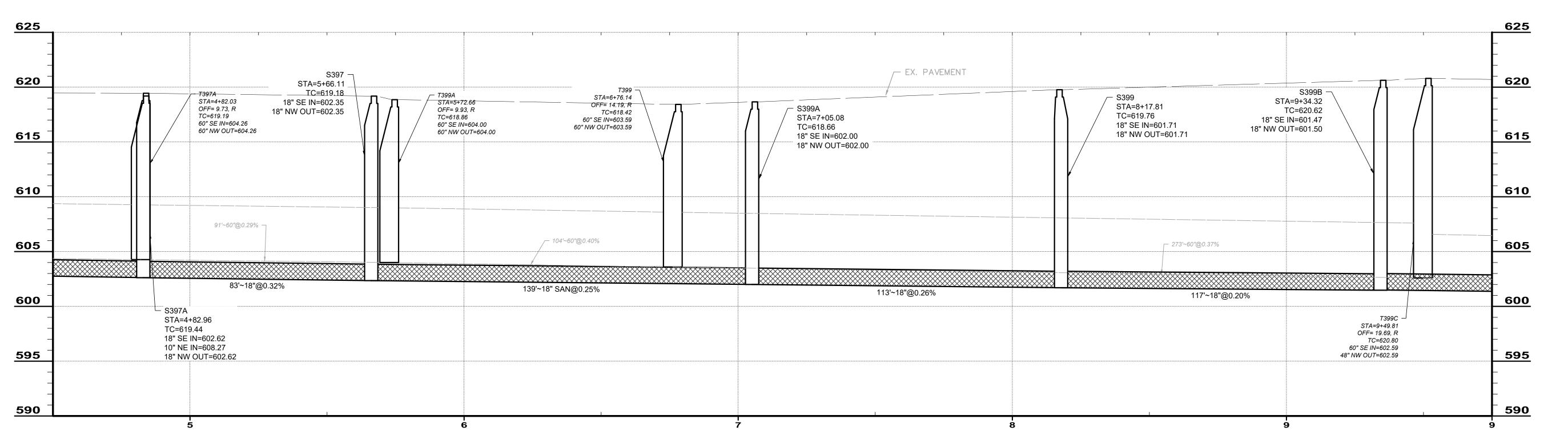






PROJECT NO: 241085 DRAWING NAME 10C-02

SCALE: 1" = 20 406 EAST 305 TH STREET 412 EAST 305 TH STREET 418 EAST 305 TH STREET 426 EAST 305 TH STREET 432 EAST 305 TH STREET 444 EAST 305 TH STREET 450 EAST 305 TH STREET 438 EAST 305 TH STREET 456 EAST 305 TH STREET 462 EAST 305 TH STREET - S397 \$397A · S399A EAST 305 TH STREET T399 -T399A 401 EAST 305 TH STREET 409 EAST 305 TH STREET 415 EAST 305 TH STREET 423 EAST 305 TH STREET 431 EAST 305 TH STREET 439 EAST 305 TH STREET

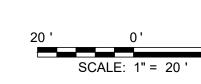


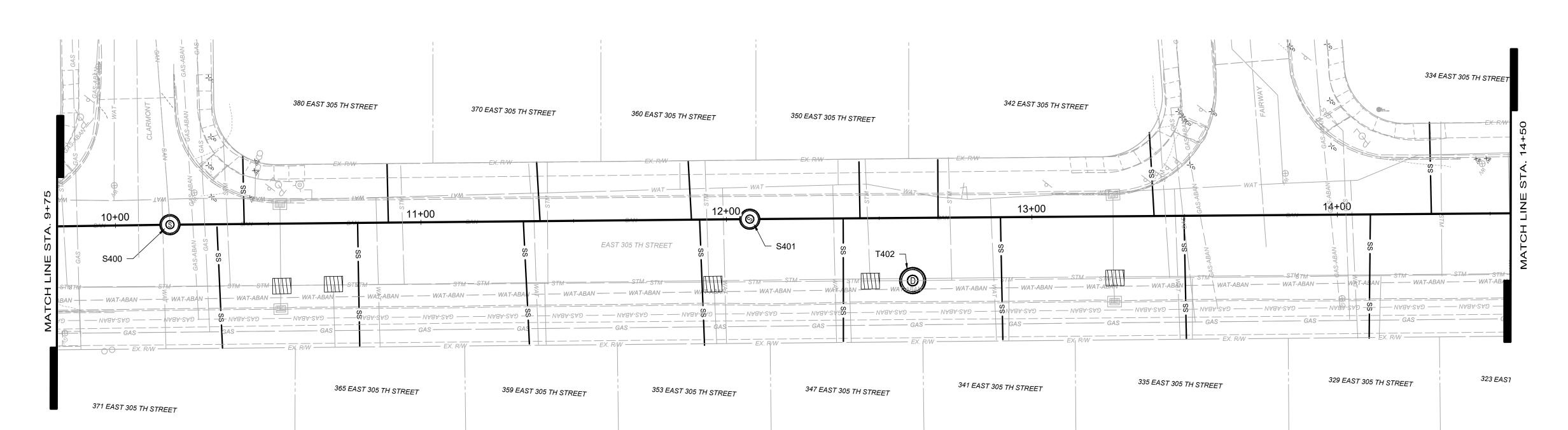
E. 305 TH STREET STATIONING

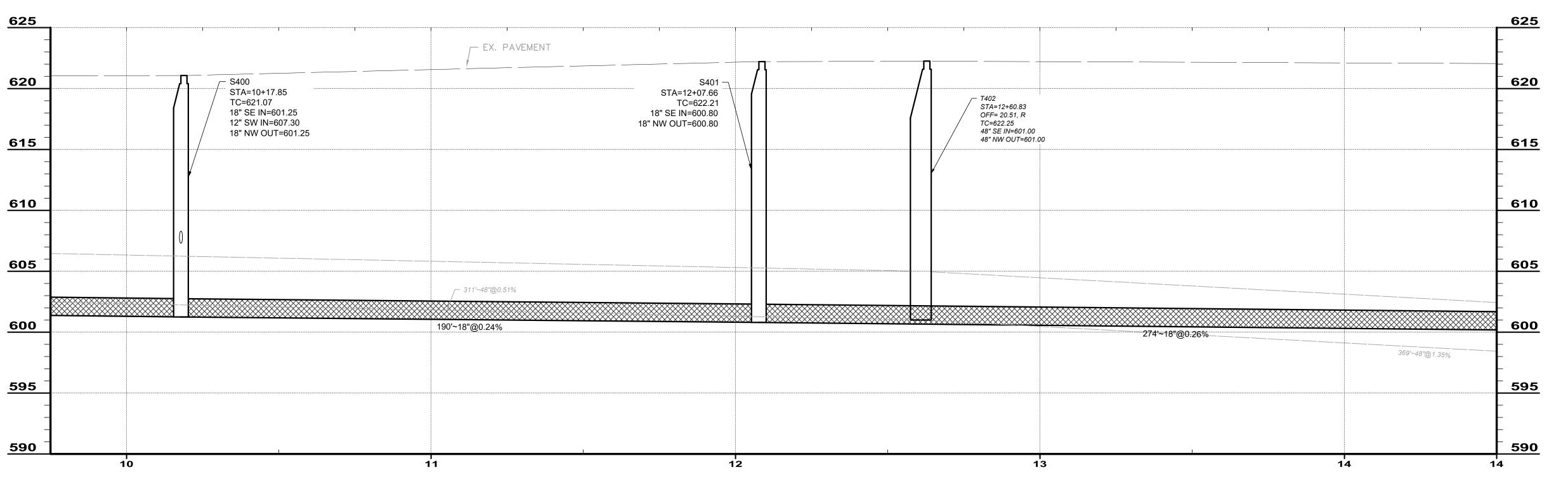
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- 5. CONTRACTOR TO LINE SANITARY SEWER USING CURED-IN-PLACE LINING OR FOLD AND FORM PIPE LINING. ENGINEER TO MAKE FINAL DETERMINATION BASED ON PRICING.









E. 305 TH STREET STATIONING

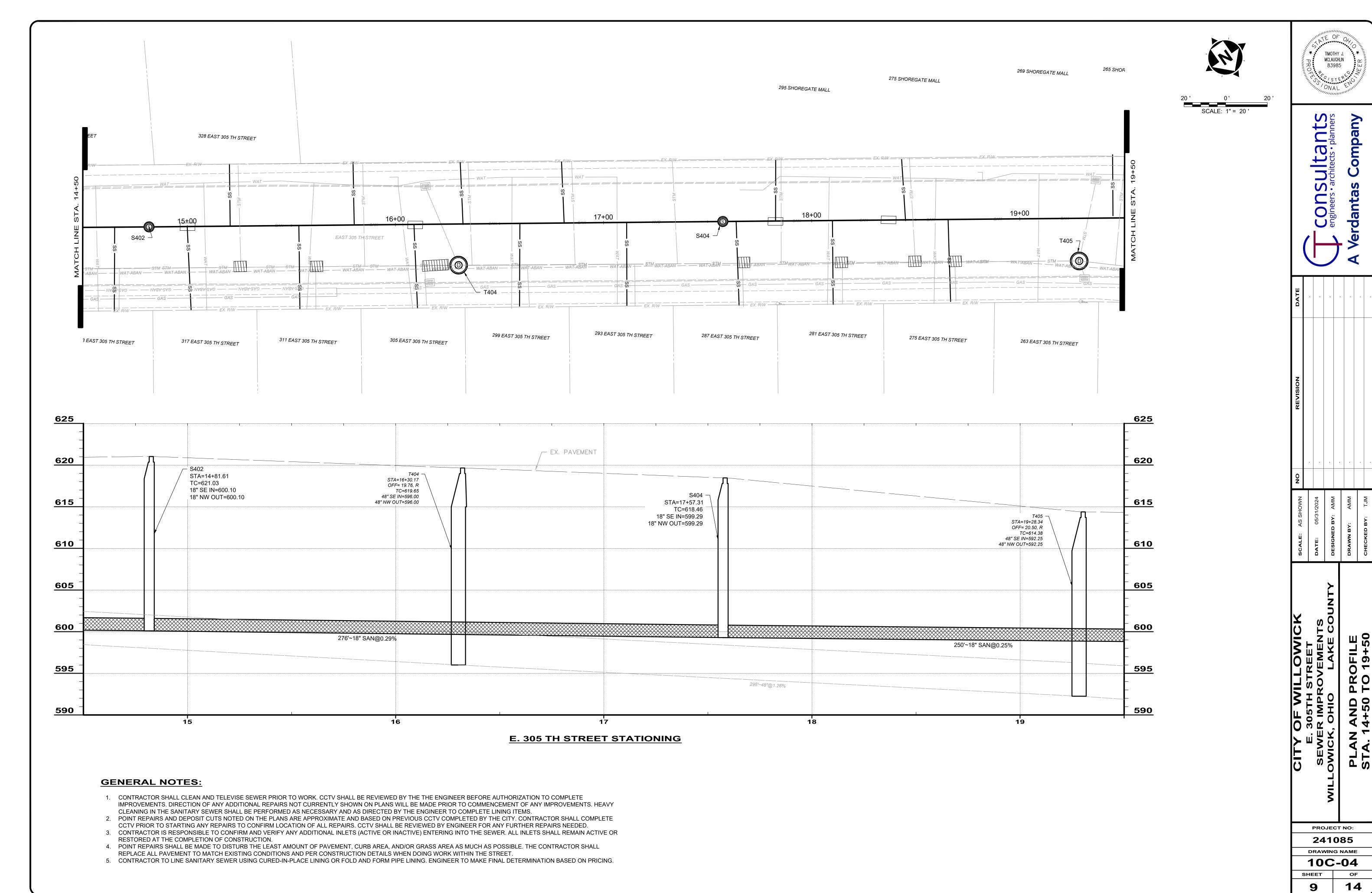
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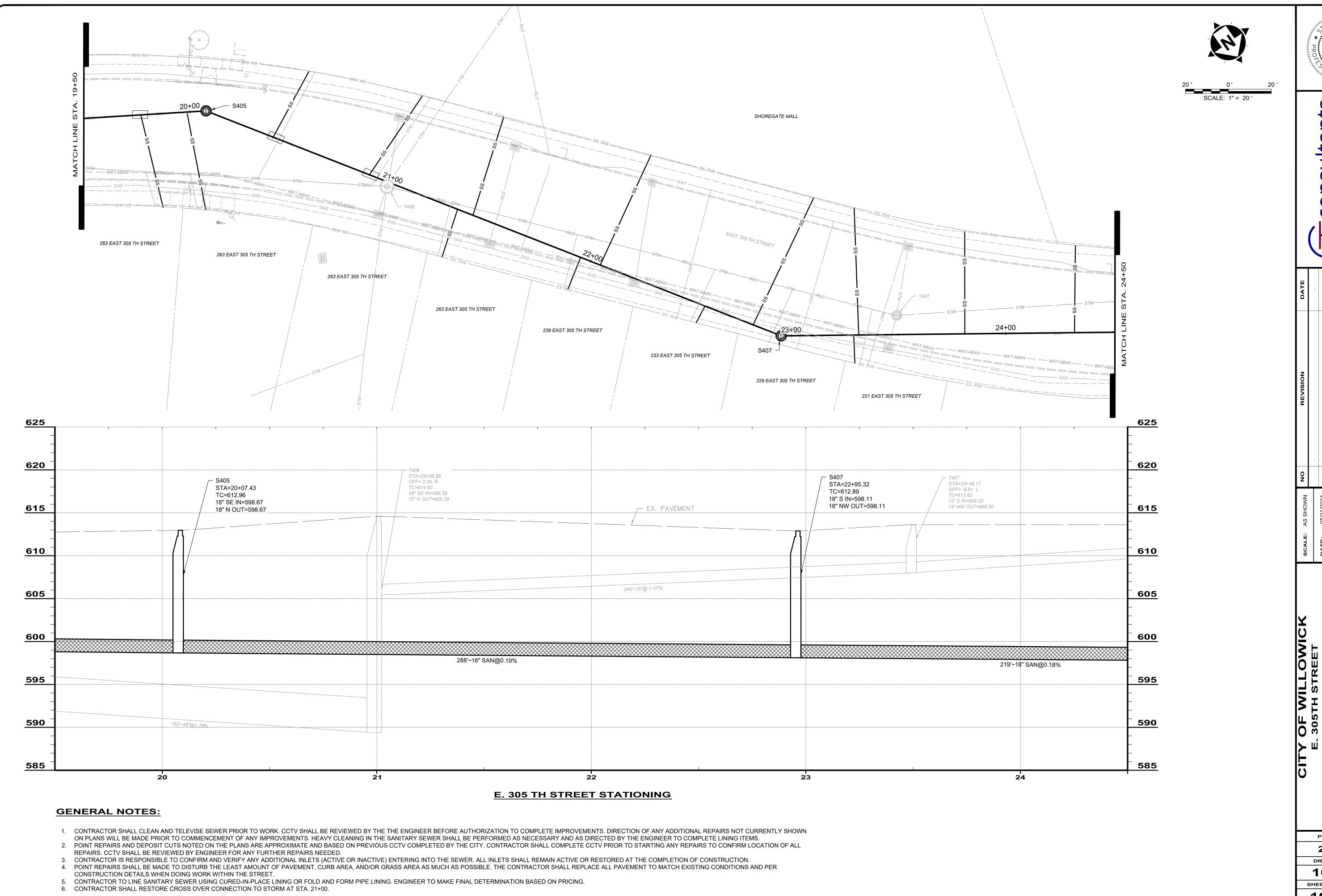
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PROFESUIII	TIMOTHY J. MCLAUGHLIN 83985	EER + O'MIN
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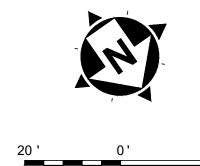


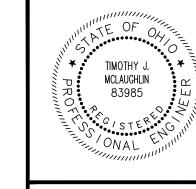


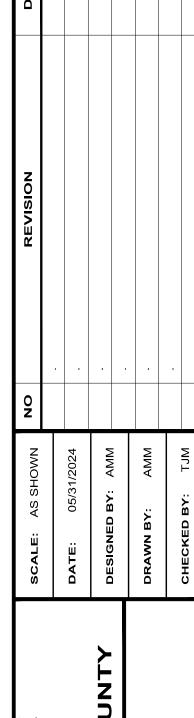
MCLAUGHLIN

ants re-planners

	DATE : 05/31/2024	LAKE COUNTY DESIGNED BY: AMM	T	DRAWN BY: AMM		CHECKED BY: TJM
	024				· 	. MCI



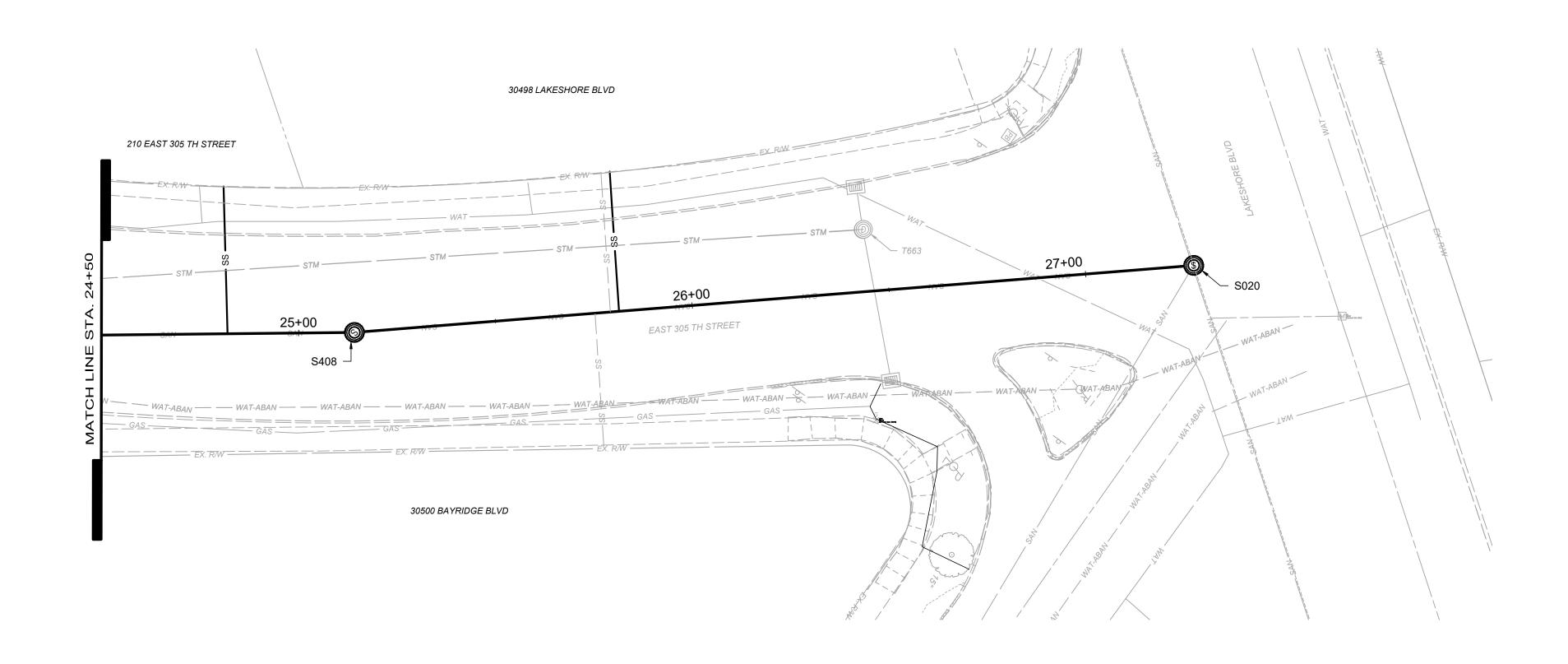


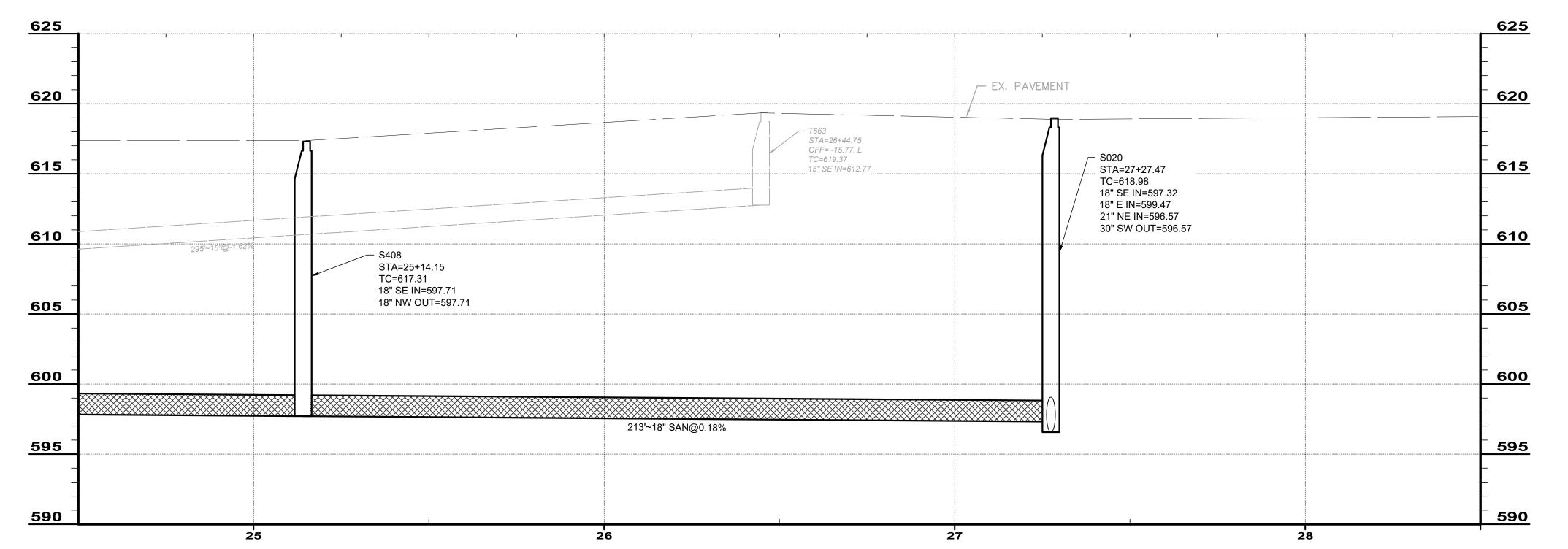


SEWEI OWICK,

PROJECT NO: 241085 DRAWING NAME

10C-06 11

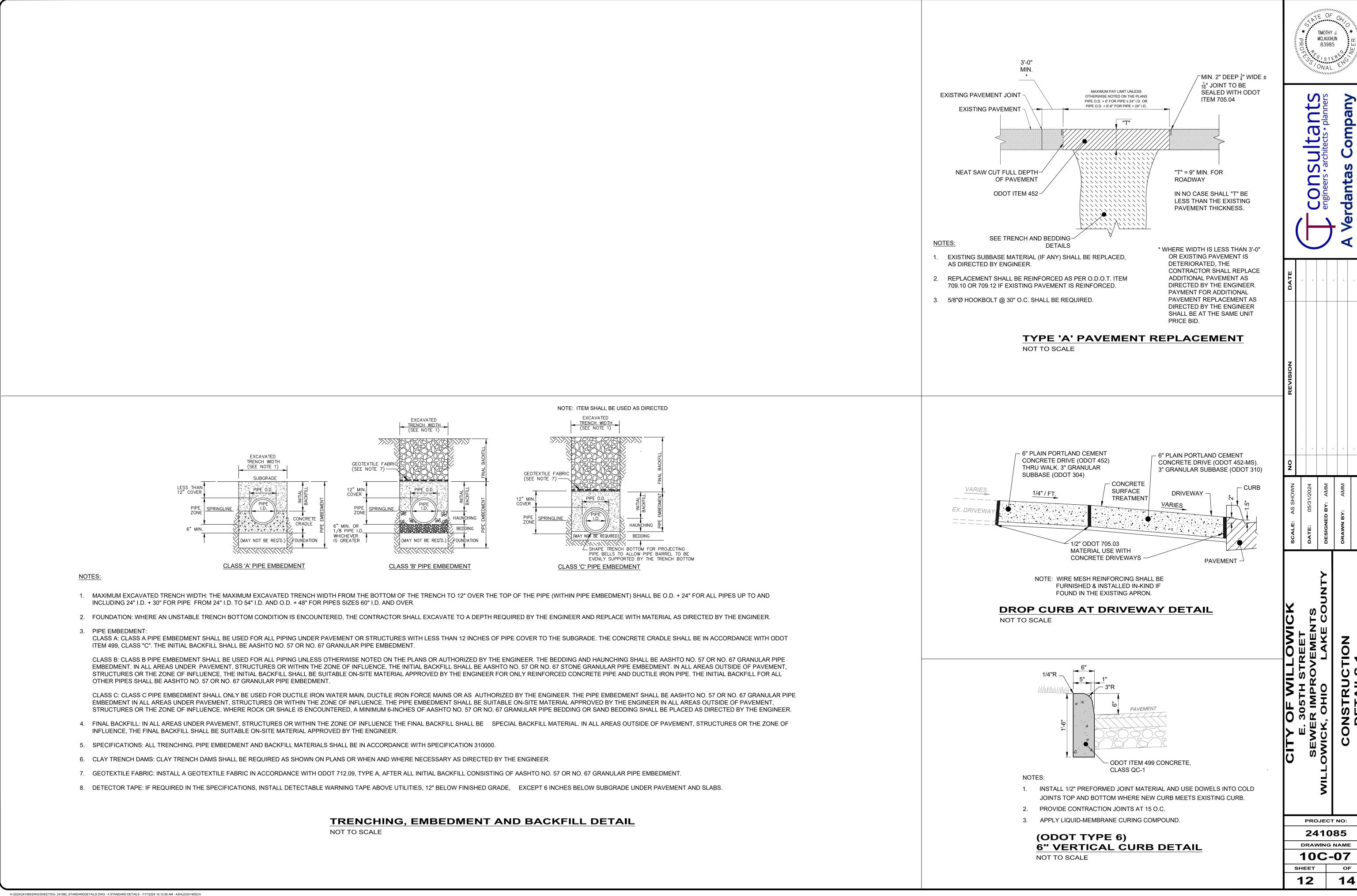


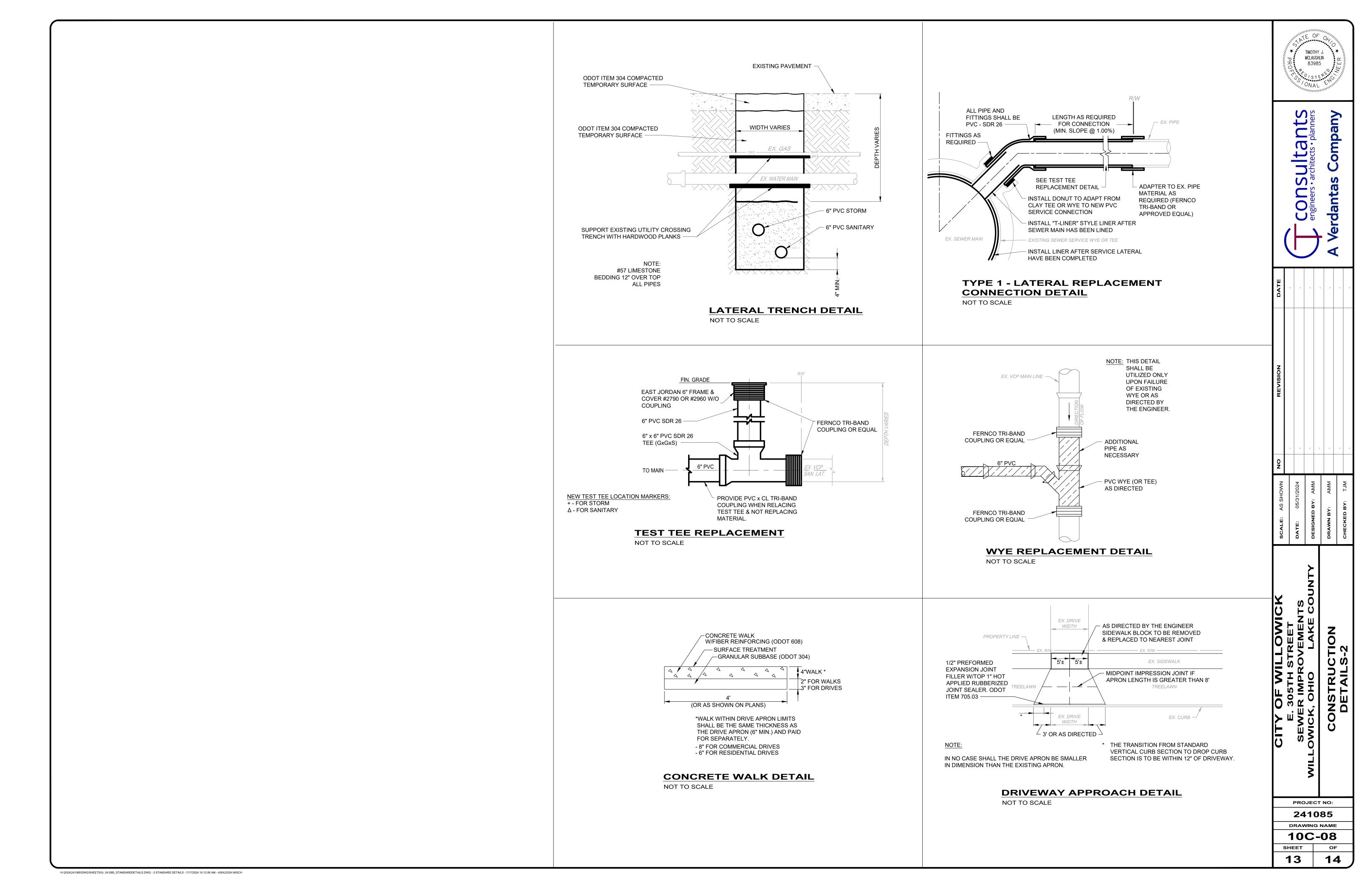


E. 305 TH STREET STATIONING

GENERAL NOTES:

- CONTRACTOR SHALL CLEAN AND TELEVISE SEWER PRIOR TO WORK. CCTV SHALL BE REVIEWED BY THE THE ENGINEER BEFORE AUTHORIZATION TO COMPLETE IMPROVEMENTS. DIRECTION OF ANY ADDITIONAL REPAIRS NOT CURRENTLY SHOWN ON PLANS WILL BE MADE PRIOR TO COMMENCEMENT OF ANY IMPROVEMENTS. HEAVY CLEANING IN THE SANITARY SEWER SHALL BE PERFORMED AS NECESSARY AND AS DIRECTED BY THE ENGINEER TO COMPLETE LINING ITEMS.
 POINT REPAIRS AND DEPOSIT CUTS NOTED ON THE PLANS ARE APPROXIMATE AND BASED ON PREVIOUS CCTV COMPLETED BY THE CITY. CONTRACTOR SHALL COMPLETE CCTV PRIOR TO STARTING ANY REPAIRS TO CONFIRM LOCATION OF ALL REPAIRS. CCTV SHALL BE REVIEWED BY ENGINEER FOR ANY FURTHER REPAIRS NEEDED.
 CONTRACTOR IS RESPONSIBLE TO CONFIRM AND VERIFY ANY ADDITIONAL INLETS (ACTIVE OR INACTIVE) ENTERING INTO THE SEWER. ALL INLETS SHALL REMAIN ACTIVE OR DESTRUCTION.
- RESTORED AT THE COMPLETION OF CONSTRUCTION.
- 4. POINT REPAIRS SHALL BE MADE TO DISTURB THE LEAST AMOUNT OF PAVEMENT, CURB AREA, AND/OR GRASS AREA AS MUCH AS POSSIBLE. THE CONTRACTOR SHALL
- REPLACE ALL PAVEMENT TO MATCH EXISTING CONDITIONS AND PER CONSTRUCTION DETAILS WHEN DOING WORK WITHIN THE STREET.
- 5. CONTRACTOR TO LINE SANITARY SEWER USING CURED-IN-PLACE LINING OR FOLD AND FORM PIPE LINING. ENGINEER TO MAKE FINAL DETERMINATION BASED ON PRICING.





STC	ORM DEP	OSIT CUT
US MH	DS MH	STA. OF DEPOSIT CU
T395	T396	2+23
T396	T397A	4+35
T396	T397A	4+72
T397A	T399A	4+96
T399A	T399	5+86
T399A	T399	6+59
T399	T399C	7+71
T399	T399C	7+98
T399	T399C	8+50
T399	T399C	8+79
T399	T399C	9+03
T399	T399C	9+44
T399C	T402	10+53
T399C	T402	10+71
T399C	T402	11+94
T399C	T402	12+46
T402	T404	13+25
T402	T404	15+25
T402	T404	15+61
T402	T404	16+13
T404	T405	17+67
T404	T405	18+14
T404	T405	18+48
T404	T405	18+69

US MH	DS MH	US STA.	DS STA.	PIPE SIZE (INCHES)	EXISTING MATERIAL	PROPOSED THICKNESS (MM)	THICKNESS (AS BUILT)
S394	S395	0+00	0+27	18	VCP	12	0
S395	S396	0+27	2+79	18	VCP	12	
S396	S397A	2+79	4+83	18	VCP	12	Q
S397A	S397	4+83	5+66	18	VCP	12	
S397	S399A	5+66	7+05	18	VCP	12	0
S399A	S399	7±05	8+18	18	VCP	12	
S399	S399B	8+18	9+34	18	VCP	12	
S399B	S400	9+34	10+18	18	VCP	12	5 ci
S400	S401	10+18	12+08	18	VCP	12	
S401	S402	12+08	14+82	18	VCP	12	5
S402	S404	14+82	17+57	18	VCP	12	1.
S404	S405	17+57	20+07	18	VCP	12	6
S405	S407	20+07	22+95	18	VCP	12	
S407	S408	22+95	25+14	18	VCP	12	5 a
S408	S020	25+14	27+27	18	VCP	12	

		SANI	TARY SEWER PO	DINT REPAI	R	2
US MH	DS MH	STARTING STA.	ENDING STA.	PIPE SIZE (INCHES)	STARTING STA. (AS BUILT)	ENDING STA. (AS BUILT)
S404	S405	18+33	18+40	18		-

	W 73		85 Y	MA	ANHOLE LINING	.00	
MH	STATION	AVG ID (FT)	DEPTH (FT)	WALL MATERIAL	MH SEALING (Y/N)	CASTING REPLACEMENT (Y/N)	ADDITIONAL REPAIRS
S394	0+00	4	16.89	BRICK	Y	N	
S395	0+27	4	16.62	BRICK	Υ	N	
T394	0+00	8	15.78	BRICK	Y	N	
T395	0+48	8	15.48	BRICK	Υ	N	
S396	2+79	4	15.9	BRICK	Υ	N	
T396	2+92	8	14.25	BRICK	Y	N	
S397A	4+82	4	14.93	BRICK	Υ	N	
T397A	4+83	8	16.82	BRICK	Y	N	
S397	5+66	4	16.83	BRICK	Υ	N	
T399A	5+73	8	14.86	BRICK	Y	N	
T399	6+76	8	14.83	BRICK	Υ	N	
S399A	7+05	4	16.66	BRICK	Y	N	
S399	8+18	4	18.05	BRICK	Υ	N	
S399B	9+34	4	19.15	BRICK	Y	N	
T399C	9+50	8	18.21	BRICK	Υ	N	
S400	10+18	4	19.82	BRICK	Y	N	
S401	12+08	4	21.41	BRICK	Υ	N	
T402	12+61	8	21.25	BRICK	Y	N	
S402	14+82	4	20.93	BRICK	Υ	N	
T404	16+30	8	23.65	BRICK	Y	N	
S404	17+57	4	19.17	BRICK	Y	N	
T405	19+28	8	22.13	BRICK	Y	N	
S405	20+07	4	14.29	BRICK	Y	N	
S407	22+95	4	14.78	BRICK	Y	N	
S408	25+14	4	19.6	BRICK	Y	N	
S020	27+27	4	22.41	BRICK	Y	N	

498 EAST 305TH STREET	N N
1998 EAST 305TH STREET	AVG 1
197 EAST 305TH STREET	1.9
98 EAST 305TH STREET	N
98 EAST 305TH STREET	N
89 EAST 305TH STREET	N
89 EAST 305TH STREET	N
98 EAST 305TH STREET	N
188 EAST 305TH STREET	N
SE EAST 305TH STREET	N
81 EAST 305TH STREET 2+20 SAN VCP 6 Y N 81 EAST 305TH STREET 2+25 STM VCP 6 N N 82 EAST 305TH STREET 2+42 SAN VCP 6 Y N 83 EAST 305TH STREET 2+42 SAN VCP 6 Y N N 75 EAST 305TH STREET 2+44 STM VCP 6 N N N 75 EAST 305TH STREET 2+59 SAN VCP 6 Y N N 75 EAST 305TH STREET 2+59 SAN VCP 6 Y N N 86 EAST 305TH STREET 2+61 STM VCP 6 Y N N 87 EAST 305TH STREET 2+71 SAN VCP 6 Y N N 86 EAST 305TH STREET 2+74 STM VCP 6 Y N N 87 EAST 305TH STREET 2+74 STM VCP 6 Y N N 87 EAST 305TH STREET 3+03 SAN VCP 6 Y N N 87 EAST 305TH STREET 3+06 STM VCP 6 Y N 80 EAST 305TH STREET 3+06 SAN VCP 6 Y N N 80 EAST 305TH STREET 3+33 STM VCP 6 N N N 95 EAST 305TH STREET 3+33 STM VCP 6 N N N 95 EAST 305TH STREET 3+35 SAN VCP 6 N N N 80 EAST 305TH STREET 3+35 SAN VCP 6 N N N 80 EAST 305TH STREET 3+35 SAN VCP 6 N N N 81 EAST 305TH STREET 3+25 SAN VCP 6 N N N 82 EAST 305TH STREET 3+25 SAN VCP 6 N N N 83 EAST 305TH STREET 3+25 SAN VCP 6 N N N 84 EAST 305TH STREET 3+25 SAN VCP 6 N N N 85 EAST 305TH STREET 3+25 SAN VCP 6 N N N 85 EAST 305TH STREET 3+25 SAN VCP 6 N N N 85 EAST 305TH STREET 3+25 SAN VCP 6 N N N 95 EAST 305TH STREET 3+25 SAN VCP 6 N N N 96 EAST 305TH STREET 3+25 SAN VCP 6 N N N 97 EAST 305TH STREET 3+25 SAN VCP 6 N N N 98 EAST 305TH STREET 3+25 SAN VCP 6 N N N 98 EAST 305TH STREET 4+33 SAN VCP 6 N N 98 EAST 305TH STREET 4+33 SAN VCP 6 N N 98 EAST 305TH STREET 4+33 SAN VCP 6 N N 98 EAST 305TH STREET 4+35 SAN VCP 6 N N 99 EAST 305TH STREET 4+35 SAN VCP 6 N N 90 EAST 305TH STREET 4+35 SAN VCP 6 N N 90 EAST 305TH STREET 4+35 SAN VCP 6 N N 90 EAST 305TH STREET 4+35 SAN VCP 6 N N 90 EAST 305TH STREET 4+35 SAN VCP 6 N N 90 EAST 305TH STREET 4+35 SAN VCP 6 N N 90 EAST 305TH STREET 4+35 SAN VCP 6 N N 90 EAST 305TH STREET 4+36 SAN VCP 6	N
S1 EAST 305TH STREET	N
22 EAST 305TH STREET	N
Seast 305TH STREET 2+44	N
275 EAST 305TH STREET	N
25 EAST 305TH STREET	N
36 EAST 305TH STREET 2+71 SAN VCP 6 Y N 36 EAST 305TH STREET 2+74 STM VCP 6 N N 37 EAST 305TH STREET 3+03 SAN VCP 6 Y N 30 EAST 305TH STREET 3+06 STM VCP 6 N N 30 EAST 305TH STREET 3+30 SAN VCP 6 N N 30 EAST 305TH STREET 3+33 STM VCP 6 N N 30 EAST 305TH STREET 3+56 SAN VCP 6 N N 39 EAST 305TH STREET 3+82 SAN VCP 6 N N 34 EAST 305TH STREET 3+84 STM VCP 6 N N 31 EAST 305TH STREET 4+15 SAN VCP 6 N N 32 EAST 305TH STREET 4+13 SAN VCP 6 N N 38 EAST 305TH STREET 4+33 SAN </td <td>N</td>	N
Second	4.44.0
67 EAST 305TH STREET 3+03 SAN VCP 6 Y N 67 EAST 305TH STREET 3+06 STM VCP 6 N N 80 EAST 305TH STREET 3+30 SAN VCP 6 Y N 80 EAST 305TH STREET 3+33 STM VCP 6 N N 80 EAST 305TH STREET 3+56 SAN VCP 6 N N 59 EAST 305TH STREET 3+59 STM VCP 6 N N 74 EAST 305TH STREET 3+82 SAN VCP 6 N N 74 EAST 305TH STREET 3+84 STM VCP 6 N N 51 EAST 305TH STREET 4+15 SAN VCP 6 Y N 51 EAST 305TH STREET 4+17 STM VCP 6 N N 52 EAST 305TH STREET 4+33 SAN VCP 6 N N 52 EAST 305TH STREET 4+70 SAN </td <td>N</td>	N
67 EAST 305TH STREET 3+06 STM VCP 6 N N 80 EAST 305TH STREET 3+30 SAN VCP 6 Y N 80 EAST 305TH STREET 3+33 STM VCP 6 N N 99 EAST 305TH STREET 3+56 SAN VCP 6 Y N 99 EAST 305TH STREET 3+59 STM VCP 6 N N 74 EAST 305TH STREET 3+82 SAN VCP 6 N N 74 EAST 305TH STREET 3+84 STM VCP 6 N N 75 EAST 305TH STREET 4+15 SAN VCP 6 N N 51 EAST 305TH STREET 4+17 STM VCP 6 N N 52 EAST 305TH STREET 4+33 SAN VCP 6 N N 52 EAST 305TH STREET 4+72 STM VCP 6 N N 52 EAST 305TH STREET 4+96 STM </td <td>N</td>	N
30 EAST 305TH STREET 3+30 SAN VCP 6 Y N S 30 EAST 305TH STREET 3+33 STM VCP 6 N N N 30 EAST 305TH STREET 3+56 SAN VCP 6 N N N 30 EAST 305TH STREET 3+59 STM VCP 6 N N N 30 EAST 305TH STREET 3+59 STM VCP 6 N N N 30 EAST 305TH STREET 3+82 SAN VCP 6 N N N 31 EAST 305TH STREET 3+82 SAN VCP 6 N N N 32 EAST 305TH STREET 3+84 STM VCP 6 N N N 33 EAST 305TH STREET 4+15 SAN VCP 6 N N N 34 EAST 305TH STREET 4+15 SAN VCP 6 N N N 35 EAST 305TH STREET 4+17 STM VCP 6 N N N 36 EAST 305TH STREET 4+33 SAN VCP 6 N N N 38 EAST 305TH STREET 4+35 STM VCP 6 N N N 38 EAST 305TH STREET 4+35 STM VCP 6 N N N 32 EAST 305TH STREET 4+70 SAN VCP 6 N N N 32 EAST 305TH STREET 4+70 SAN VCP 6 N N N 34 EAST 305TH STREET 4+91 SAN VCP 6 N N N 35 EAST 305TH STREET 4+91 SAN VCP 6 N N N 36 EAST 305TH STREET 5+20 SAN VCP 6 N N N 39 EAST 305TH STREET 5+20 SAN VCP 6 N N N 39 EAST 305TH STREET 5+21 STM VCP 6 N N N 30 EAST 305TH STREET 5+23 STM VCP 6 N N N 30 EAST 305TH STREET 5+24 SAN VCP 6 N N N 31 EAST 305TH STREET 5+41 SAN VCP 6 N N N 32 EAST 305TH STREET 5+43 SAN VCP 6 N N N 34 EAST 305TH STREET 5+45 STM VCP 6 N N N 35 EAST 305TH STREET 5+45 STM VCP 6 N N N 36 EAST 305TH STREET 5+45 STM VCP 6 N N N 36 EAST 305TH STREET 5+45 STM VCP 6 N N N 37 EAST 305TH STREET 5+45 STM VCP 6 N N N 38 EAST 305TH STREET 5+86 STM VCP 6 N N N 39 EAST 305TH STREET 5+83 SAN VCP 6 N N N 30 EAST 305TH STREET 5+83 SAN VCP 6 N N N 31 EAST 305TH STREET 6+37 STM VCP 6 N N N 31 EAST 305TH STREET 6+37 STM VCP 6 N N N 32 EAST 305TH STREET 6+36 SAN VCP 6 N N N 33 EAST 305TH STREET 6+37 STM VCP 6 N N N 34 EAST 305TH STREET 6+37 STM VCP 6 N N N 35 EAST 305TH STREET 6+36 SAN VCP 6 N N N 35 EAST 305TH STREET 6+37 STM VCP 6 N N N 36 EAST 305TH STREET 6+37 STM VCP 6 N N N 36 EAST 305TH STREET 7+16 SAN VCP 6 N N N 37 EAST 305TH STREET 7+16 SAN VCP 6 N N N 38 EAST 305TH STREET 7+16 SAN VCP 6 N N N 38 EAST 305TH STREET 7+16 SAN VCP 6 N N N 30 EAST 305TH STREET 7+16 SAN VCP 6 N N N 30 EAST 305TH STREET 7	N
SO EAST 305TH STREET 3+33	N
\$9 EAST 305TH STREET	N
STEP STM	N
A	N
274 EAST 305TH STREET	N
\$1 EAST 305TH STREET	N
STEAST 305TH STREET	N
58 EAST 305TH STREET 4+33 SAN VCP 6 Y N 58 EAST 305TH STREET 4+35 STM VCP 6 N N 52 EAST 305TH STREET 4+70 SAN VCP 6 Y N 52 EAST 305TH STREET 4+72 STM VCP 6 N N 52 EAST 305TH STREET 4+91 SAN VCP 6 Y N 52 EAST 305TH STREET 4+96 STM VCP 6 N N 53 EAST 305TH STREET 5+20 SAN VCP 6 Y N 39 EAST 305TH STREET 5+23 STM VCP 6 N N 39 EAST 305TH STREET 5+41 SAN VCP 6 Y N 56 EAST 305TH STREET 5+45 STM VCP 6 N N 50 EAST 305TH STREET 5+86 STM VCP 6 N N 31 EAST 305TH STREET 6+01 SAN </td <td>N</td>	N
68 EAST 305TH STREET 4+33 SAN VCP 6 Y N 68 EAST 305TH STREET 4+35 STM VCP 6 N N 62 EAST 305TH STREET 4+70 SAN VCP 6 Y N 62 EAST 305TH STREET 4+72 STM VCP 6 N N 62 EAST 305TH STREET 4+91 SAN VCP 6 Y N 62 EAST 305TH STREET 4+96 STM VCP 6 N N 63 EAST 305TH STREET 5+20 SAN VCP 6 Y N 63 EAST 305TH STREET 5+23 STM VCP 6 N N 65 EAST 305TH STREET 5+41 SAN VCP 6 Y N 66 EAST 305TH STREET 5+45 STM VCP 6 N N 60 EAST 305TH STREET 5+86 STM VCP 6 N N 81 EAST 305TH STREET 6+01 SAN </td <td>N</td>	N
58 EAST 305TH STREET 4+35 STM VCP 6 N N 52 EAST 305TH STREET 4+70 SAN VCP 6 Y N 52 EAST 305TH STREET 4+72 STM VCP 6 N N 52 EAST 305TH STREET 4+91 SAN VCP 6 Y N 52 EAST 305TH STREET 4+96 STM VCP 6 N N 53 EAST 305TH STREET 5+20 SAN VCP 6 Y N 39 EAST 305TH STREET 5+23 STM VCP 6 N N 39 EAST 305TH STREET 5+41 SAN VCP 6 Y N 30 EAST 305TH STREET 5+45 STM VCP 6 N N N 30 EAST 305TH STREET 5+86 STM VCP 6 N N N 31 EAST 305TH STREET 6+01 SAN VCP 6 N N N N N	N
\$2 EAST 305TH STREET	N
\$2 EAST 305TH STREET	N
62 EAST 305TH STREET 4+91 SAN VCP 6 Y N 62 EAST 305TH STREET 4+96 STM VCP 6 N N 89 EAST 305TH STREET 5+20 SAN VCP 6 Y N 89 EAST 305TH STREET 5+23 STM VCP 6 N N 56 EAST 305TH STREET 5+41 SAN VCP 6 Y N 56 EAST 305TH STREET 5+45 STM VCP 6 N N 50 EAST 305TH STREET 5+83 SAN VCP 6 N N 50 EAST 305TH STREET 5+86 STM VCP 6 N N 81 EAST 305TH STREET 6+01 SAN VCP 6 N N 81 EAST 305TH STREET 6+05 STM VCP 6 N N 81 EAST 305TH STREET 6+34 SAN VCP 6 N N 82 EAST 305TH STREET 6+56 SAN </td <td>N</td>	N
\$2 EAST 305TH STREET	N
SAN VCP 6	N
SPEAST 305TH STREET	N
56 EAST 305TH STREET 5+41 SAN VCP 6 Y N 56 EAST 305TH STREET 5+45 STM VCP 6 N N 50 EAST 305TH STREET 5+83 SAN VCP 6 Y N 50 EAST 305TH STREET 5+86 STM VCP 6 N N 81 EAST 305TH STREET 6+01 SAN VCP 6 Y N 81 EAST 305TH STREET 6+05 STM VCP 6 N N 84 EAST 305TH STREET 6+34 SAN VCP 6 Y N 82 EAST 305TH STREET 6+37 STM VCP 6 N N 83 EAST 305TH STREET 6+56 SAN VCP 6 N N 83 EAST 305TH STREET 6+59 STM VCP 6 N N 84 EAST 305TH STREET 6+84 SAN VCP 6 N N 85 EAST 305TH STREET 7+16 STM </td <td>1100</td>	1100
Second Strict Str	N
SO EAST 305TH STREET	N
SO EAST 305TH STREET	N
31 EAST 305TH STREET 6+01 SAN VCP 6 Y N 31 EAST 305TH STREET 6+05 STM VCP 6 N N 44 EAST 305TH STREET 6+34 SAN VCP 6 Y N 44 EAST 305TH STREET 6+37 STM VCP 6 N N 23 EAST 305TH STREET 6+56 SAN VCP 6 Y N 23 EAST 305TH STREET 6+59 STM VCP 6 N N 38 EAST 305TH STREET 6+84 SAN VCP 6 Y N 38 EAST 305TH STREET 6+84 SAN VCP 6 Y N 38 EAST 305TH STREET 6+87 STM VCP 6 N N 35 EAST 305TH STREET 7+12 SAN VCP 6 Y N 36 EAST 305TH STREET 7+16 STM VCP 6 N N 37 EAST 305TH STREET 7+16 STM VCP 6 N N 38 EAST 305TH STREET 7+16 STM VCP 6 N N 38 EAST 305TH STREET 7+16 STM VCP 6 N N 38 EAST 305TH STREET 7+16 STM VCP 6 N N 38 EAST 305TH STREET 7+16 STM VCP 6 N N 38 EAST 305TH STREET 7+16 STM VCP 6 N N 38 EAST 305TH STREET 7+46 SAN VCP 6 N N	N
## EAST 305TH STREET 6+05 STM VCP 6 N N ## EAST 305TH STREET 6+34 SAN VCP 6 Y N ## EAST 305TH STREET 6+37 STM VCP 6 N N ## EAST 305TH STREET 6+56 SAN VCP 6 Y N ## EAST 305TH STREET 6+56 SAN VCP 6 N N ## EAST 305TH STREET 6+59 STM VCP 6 N N ## EAST 305TH STREET 6+84 SAN VCP 6 Y N ## EAST 305TH STREET 6+87 STM VCP 6 N N ## EAST 305TH STREET 6+87 STM VCP 6 N N ## EAST 305TH STREET 7+12 SAN VCP 6 N N ## EAST 305TH STREET 7+16 STM VCP 6 N N ## EAST 305TH STREET 7+16 STM VCP 6 N N ## EAST 305TH STREET 7+16 STM VCP 6 N N ## EAST 305TH STREET 7+46 SAN VCP 6 N N N ## EAST 305TH STREET 7+46 SAN VCP 6 N N N ## EAST 305TH STREET 7+46 SAN VCP 6 N N N ## EAST 305TH STREET 7+46 SAN VCP 6 N N N ## EAST 305TH STREET 7+46 SAN VCP 6 N N N ## EAST 305TH STREET 7+46 SAN VCP 6 N N N ## EAST 305TH STREET 7+46 SAN VCP 6 N N N ## EAST 305TH STREET 7+46 SAN VCP 6 N N N N ## EAST 305TH STREET 7+46 SAN VCP 6 N N N N N N N N N N N N N N N N N N	N
44 EAST 305TH STREET 6+34 SAN VCP 6 Y N 44 EAST 305TH STREET 6+37 STM VCP 6 N N 23 EAST 305TH STREET 6+56 SAN VCP 6 Y N 23 EAST 305TH STREET 6+59 STM VCP 6 N N 38 EAST 305TH STREET 6+84 SAN VCP 6 Y N 38 EAST 305TH STREET 6+87 STM VCP 6 N N 15 EAST 305TH STREET 7+12 SAN VCP 6 Y N 15 EAST 305TH STREET 7+16 STM VCP 6 N N 32 EAST 305TH STREET 7+46 SAN VCP 6 Y Y	N
44 EAST 305TH STREET 6+37 STM VCP 6 N N 23 EAST 305TH STREET 6+56 SAN VCP 6 Y N 23 EAST 305TH STREET 6+59 STM VCP 6 N N 38 EAST 305TH STREET 6+84 SAN VCP 6 Y N 38 EAST 305TH STREET 6+87 STM VCP 6 N N 15 EAST 305TH STREET 7+12 SAN VCP 6 Y N 15 EAST 305TH STREET 7+16 STM VCP 6 N N 32 EAST 305TH STREET 7+46 SAN VCP 6 Y Y	N
23 EAST 305TH STREET 6+56 SAN VCP 6 Y N 23 EAST 305TH STREET 6+59 STM VCP 6 N N 38 EAST 305TH STREET 6+84 SAN VCP 6 Y N 38 EAST 305TH STREET 6+87 STM VCP 6 N N 15 EAST 305TH STREET 7+12 SAN VCP 6 Y N 15 EAST 305TH STREET 7+16 STM VCP 6 N N 32 EAST 305TH STREET 7+46 SAN VCP 6 Y Y	N
23 EAST 305TH STREET 6+59 STM VCP 6 N N 38 EAST 305TH STREET 6+84 SAN VCP 6 Y N 38 EAST 305TH STREET 6+87 STM VCP 6 N N 15 EAST 305TH STREET 7+12 SAN VCP 6 Y N 15 EAST 305TH STREET 7+16 STM VCP 6 N N 32 EAST 305TH STREET 7+46 SAN VCP 6 Y Y	N
38 EAST 305TH STREET 6+84 SAN VCP 6 Y N 38 EAST 305TH STREET 6+87 STM VCP 6 N N 15 EAST 305TH STREET 7+12 SAN VCP 6 Y N 15 EAST 305TH STREET 7+16 STM VCP 6 N N 32 EAST 305TH STREET 7+46 SAN VCP 6 Y Y	N
38 EAST 305TH STREET 6+87 STM VCP 6 N N 15 EAST 305TH STREET 7+12 SAN VCP 6 Y N 15 EAST 305TH STREET 7+16 STM VCP 6 N N 32 EAST 305TH STREET 7+46 SAN VCP 6 Y Y	N
15 EAST 305TH STREET 7+12 SAN VCP 6 Y N 15 EAST 305TH STREET 7+16 STM VCP 6 N N 32 EAST 305TH STREET 7+46 SAN VCP 6 Y Y	N
15 EAST 305TH STREET 7+16 STM VCP 6 N N 32 EAST 305TH STREET 7+46 SAN VCP 6 Y Y	N
32 EAST 305TH STREET 7+46 SAN VCP 6 Y Y	N
	N
200 C C C C C C C C C C C C C C C C C C	N
	N
09 EAST 305TH STREET	N
09 EAST 305TH STREET 7+71 STM VCP 6 N N	N
26 EAST 305TH STREET 7+95 SAN VCP 6 Y N	N
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	NAME OF TAXABLE PARTY.
26 EAST 305TH STREET 7+98 STM VCP 6 N N	N
18 EAST 305TH STREET 8+47 SAN VCP 6 Y N	N
18 EAST 305TH STREET 8+50 STM VCP 6 N N	N
01 EAST 305TH STREET 8+75 SAN VCP 6 Y N	N
01 EAST 305TH STREET 8+79 STM VCP 6 N N	N
12 EAST 305TH STREET 9+00 SAN VCP 6 Y N	N
12 EAST 305TH STREET 9+03 STM VCP 6 N N	N
06 EAST 305TH STREET 9+26 SAN VCP 6 Y N	N
71 EAST 305TH STREET 9+64 SAN VCP 6 Y N	N
06 EAST 305TH STREET 9+67 SAN VCP 6 Y N	N
06 EAST 305TH STREET 9+83 STM VCP 6 N N	N
71 EAST 305TH STREET 9+89 STM VCP 6 N N	N
71 EAST 305TH STREET 10+33 SAN VCP 6 Y N	N
30 EAST 305TH STREET 10+36 STM VCP 6 N N	N
30 EAST 305TH STREET 10+42 SAN VCP 6 Y N	N
55 EAST 305TH STREET	N
55 EAST 305TH STREET 10+79 SAN VCP 6 Y N	N.
30 EAST 305TH STREET 10+89 SAN VCP 6 Y N	N
30 EAST 305TH STREET 10+93 STM VCP 6 N N	N
	N
	N.C.
70 EAST 305TH STREET 11+39 SAN VCP 6 Y N	N
59 EAST 305TH STREET 11+40 STM VCP 6 N N	N
70 EAST 305TH STREET 11+41 STM VCP 6 N N	N
50 EAST 305TH STREET 11+88 SAN VCP 6 Y N	N
53 EAST 305TH STREET 11+90 SAN VCP 6 Y N	N
50 EAST 305TH STREET 11+93 STM VCP 6 N N	N
53 EAST 305TH STREET 11+94 STM VCP 6 N N	N
17 EAST 305TH STREET 12+38 SAN VCP 6 Y N	N
47 EAST 305TH STREET 12+40 STM VCP 6 N N	N
50 EAST 305TH STREET 12+43 SAN VCP 6 Y N	N
50 EAST 305TH STREET 12+46 STM VCP 6 N N	N
42 EAST 305TH STREET 12+69 SAN VCP 6 Y N	N
42 EAST 305TH STREET 12+73 STM VCP 6 N N	N

342 EAST 305TH STREET 12+73 STM VCP 6 N N

		\$20000000000			CIPP	FIELD TEE	
ADDRESS	STATION	SEWER	MATERIAL	SIZE (INCH)	LINING (Y/N)	REPAIR (Y/N)	REPLACEMENT (Y/N)
341 EAST 305TH STREET	12+89	SAN	VCP	6	Y	N	N
341 EAST 305TH STREET	12+93	STM	VCP	6	N	N	N
342 EAST 305TH STREET	13+39	SAN	VCP	6	Y	N	N
342 EAST 305TH STREET	13+43	STM	VCP	6	N	N	N
335 EAST 305TH STREET	13+49	SAN	VCP	6	Y	N	N
335 EAST 305TH STREET	13+54	STM	VCP	6	N	N	N
329 EAST 305TH STREET	14+10	SAN	VCP	6	Y	N	N
329 EAST 305TH STREET	14+14	STM	VCP	6	N	N	N N
334 EAST 305TH STREET	14+30	SAN	VCP	6	Y	N	N
334 EAST 305TH STREET 323 EAST 305TH STREET	14+34 14+65	STM	VCP VCP	6	N	N N	N N
323 EAST 305TH STREET	14+68	STM	VCP	6	N	N	N
317 EAST 305TH STREET	15+00	SAN	VCP	6	Y	Y	N
328 EAST 305TH STREET	15+20	SAN	VCP	6	Y	N	N
328 EAST 305TH STREET	15+25	STM	VCP	6	N	N	N
311 EAST 305TH STREET	15+53	SAN	VCP	6	Υ	N	N
311 EAST 305TH STREET	15+61	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	15+79	SAN	VCP	6	Υ	N	N
29700 LAKE SHORE BLVD	15+84	STM	VCP	6	N	N	N
305 EAST 305TH STREET	16+08	SAN	VCP	6	Υ	Υ	N
305 EAST 305TH STREET	16+13	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	16+32	SAN	VCP	6	Υ	N	N
29700 LAKE SHORE BLVD	16+36	STM	VCP	6	N	N	N
299 EAST 305TH STREET	16+59	SAN	VCP	6	Υ	N	N
299 EAST 305TH STREET	16+63	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	16+81	SAN	VCP	6	Υ	N	N
29700 LAKE SHORE BLVD	16+85	STM	VCP	6	N	N	N
293 EAST 305TH STREET	17+11	SAN	VCP	6	Y	N	N
293 EAST 305TH STREET	17+15	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	17+34	STM	VCP	6	N	N	N
287 EAST 305TH STREET	17+63	SAN	VCP	6	Y	N	N
287 EAST 305TH STREET	17+67	STM	VCP	6	N Y	N Y	N N
29700 LAKE SHORE BLVD 29700 LAKE SHORE BLVD	17+82 17+85	SAN	VCP	6	N	N	N N
281 EAST 305TH STREET	18+10	SAN	VCP	6	Y	N	N
281 EAST 305TH STREET	18+14	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	18+45	SAN	VCP	6	Y	N	N
29700 LAKE SHORE BLVD	18+48	STM	VCP	6	N	N	N
275 EAST 305TH STREET	18+65	SAN	VCP	6	Y	N	N
275 EAST 305TH STREET	18+69	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	19+44	SAN	VCP	6	γ	N	N
29700 LAKE SHORE BLVD	19+47	STM	VCP	6	N	N	N
263 EAST 305TH STREET	19+71	STM	VCP	6	N	N	N
263 EAST 305TH STREET	19+76	SAN	VCP	6	Υ	Υ	N
263 EAST 305TH STREET	19+95	STM	VCP	6	N	N	N
263 EAST 305TH STREET	19+98	SAN	VCP	6	Y	N	N
29700 LAKE SHORE BLVD	20+41	SAN	VCP	6	Y	Υ	N
29700 LAKE SHORE BLVD	20+45	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	20+92	STM	VCP	6	N	N	N
263 EAST 305TH STREET	21+29	SAN	VCP	6	Υ	N	N
263 EAST 305TH STREET	21+33	STM	VCP	6	Ň	N	N
29700 LAKE SHORE BLVD	21+40	SAN	VCP	6	Y	N	N
239 EAST 305TH STREET	21+90	STM	VCP	6	N	N	N
239 EAST 305TH STREET	21+95	SAN	VCP	6	Y	N	N
29700 LAKE SHORE BLVD	22+04	SAN	VCP	6	Y	N	N
233 EAST 305TH STREET	22+54	STM	VCP	6	N	N N	N
233 EAST 305TH STREET 29700 LAKE SHORE BLVD	22+57 22+81	SAN	VCP VCP	6	Y	N N	N N
229 EAST 305TH STREET	22+81	STM	VCP	6	N	N	N
229 EAST 305TH STREET	22+91	SAN	VCP	6	Y	N	N
221 EAST 305TH STREET	23+29	SAN	VCP	6	Y	N	N
29700 LAKE SHORE BLVD	23+29	SAN	VCP	6	Y	N	N
221 EAST 305TH STREET	23+35	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	23+81	SAN	VCP	6	Y	N	N
29700 LAKE SHORE BLVD	24+32	SAN	VCP	6	Y	N	N
210 EAST 305TH STREET	24+82	SAN	VCP	6	Y	N	N
30500 LAKESHORE BLVD	25+75	SAN	VCP	6	N	N	N
30498 LAKESHORE BLVD	25+79	SAN	VCP	6	N	N	N
30498 LAKESHORE BLVD	25+81	SAN	VCP	6	Υ	N	N





REVISION							
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SCALE: AS SHOWN		05/31/2024	DESIGNED BY: AMM		BY: AMM		СНЕСКЕD ВҮ: ТЈМ
SCALE		DATE:	DESIGN		DRAWN BY:		СНЕСК
ILLOWICK	TREET	OVEMENTS	LAKE COUNTY		U H) - ! !	F
CITY OF WILLOWICK	E. 305TH STREET	SEWER IMPROVEMENTS	WILLOWICK, OHIO		STNAMAYCAGMI		SCHEDULE
CITY OF W		PRO 24)JE(от О8			SCHEDUL