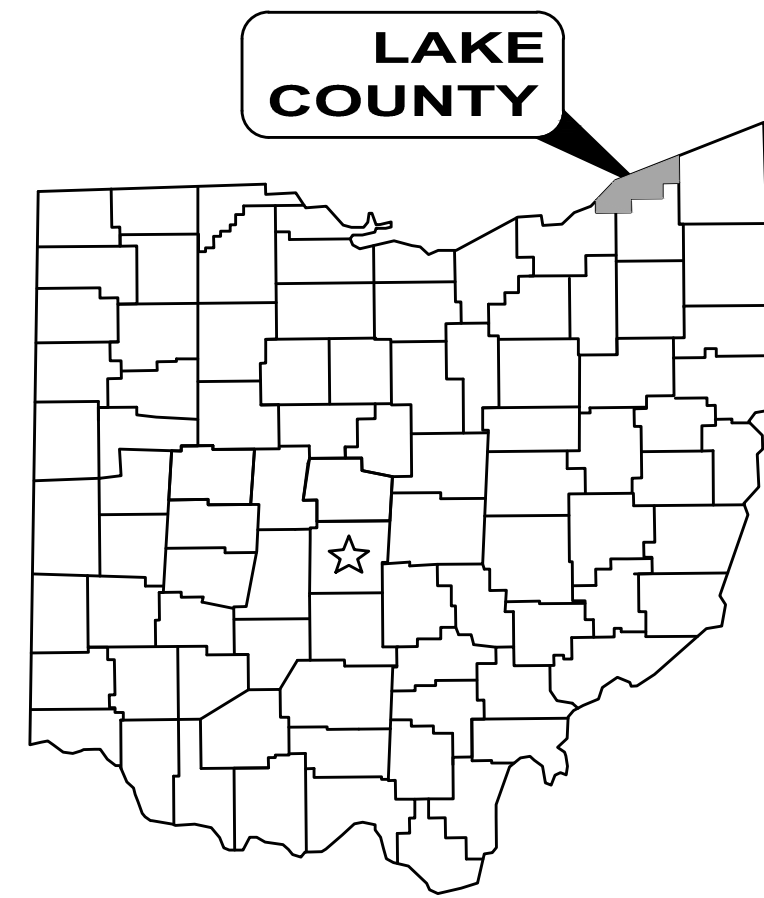


# THE CITY OF WILLOWICK

## E. 305TH STREET SEWER IMPROVEMENTS

### OPWC AND ARPA PROJECT LAKE COUNTY, OHIO



#### 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

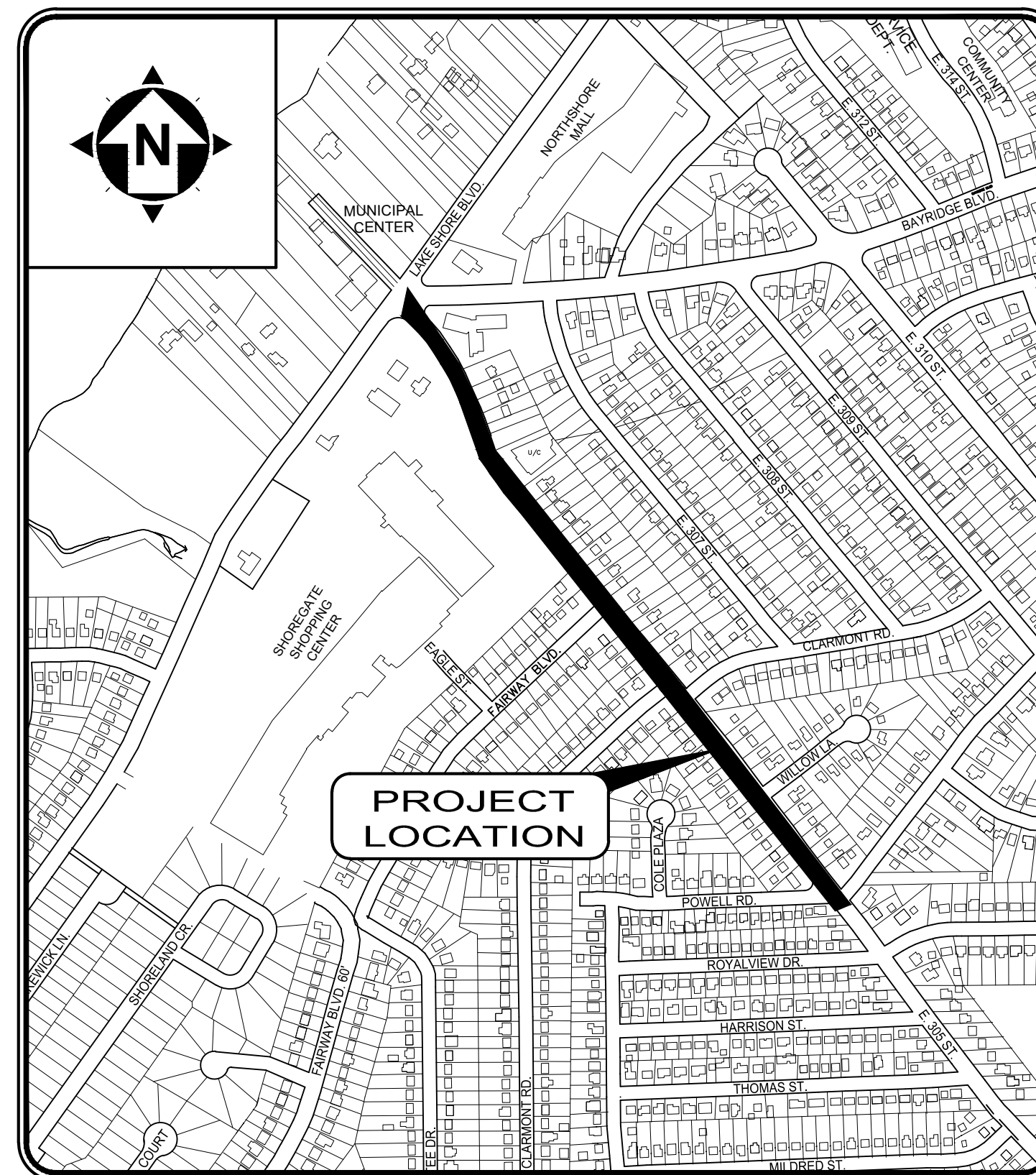


#### OHIO 811 DESIGN SERIAL NUMBERS & UTILITY MEMBER LIST:

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.

JULY 2024



LOCATION MAP  
N.T.S.

#### OWNER:

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

#### PROJECT SITE:

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

*Timothy J. McLaughlin*

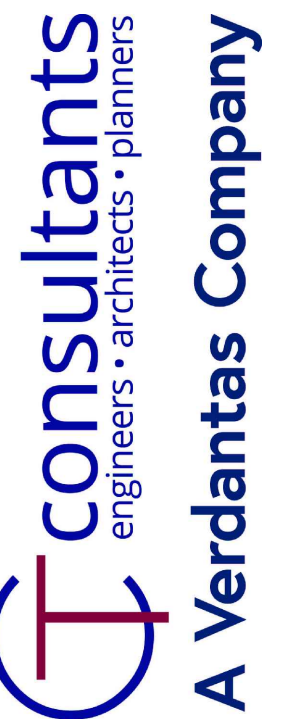
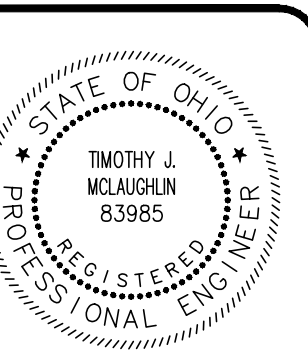
TIMOTHY J. McLAUGHLIN

P.E. No. 83985

7/18/2024  
DATE



ENGINEER'S PROJECT No. 241085



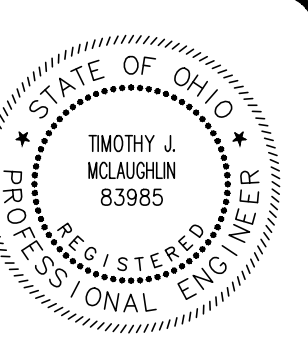
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SCALE: AS SHOWN	DATE: 05/31/2024	DESIGNED BY: AMM	DRAWN BY: AMM	CHECKED BY: TJM
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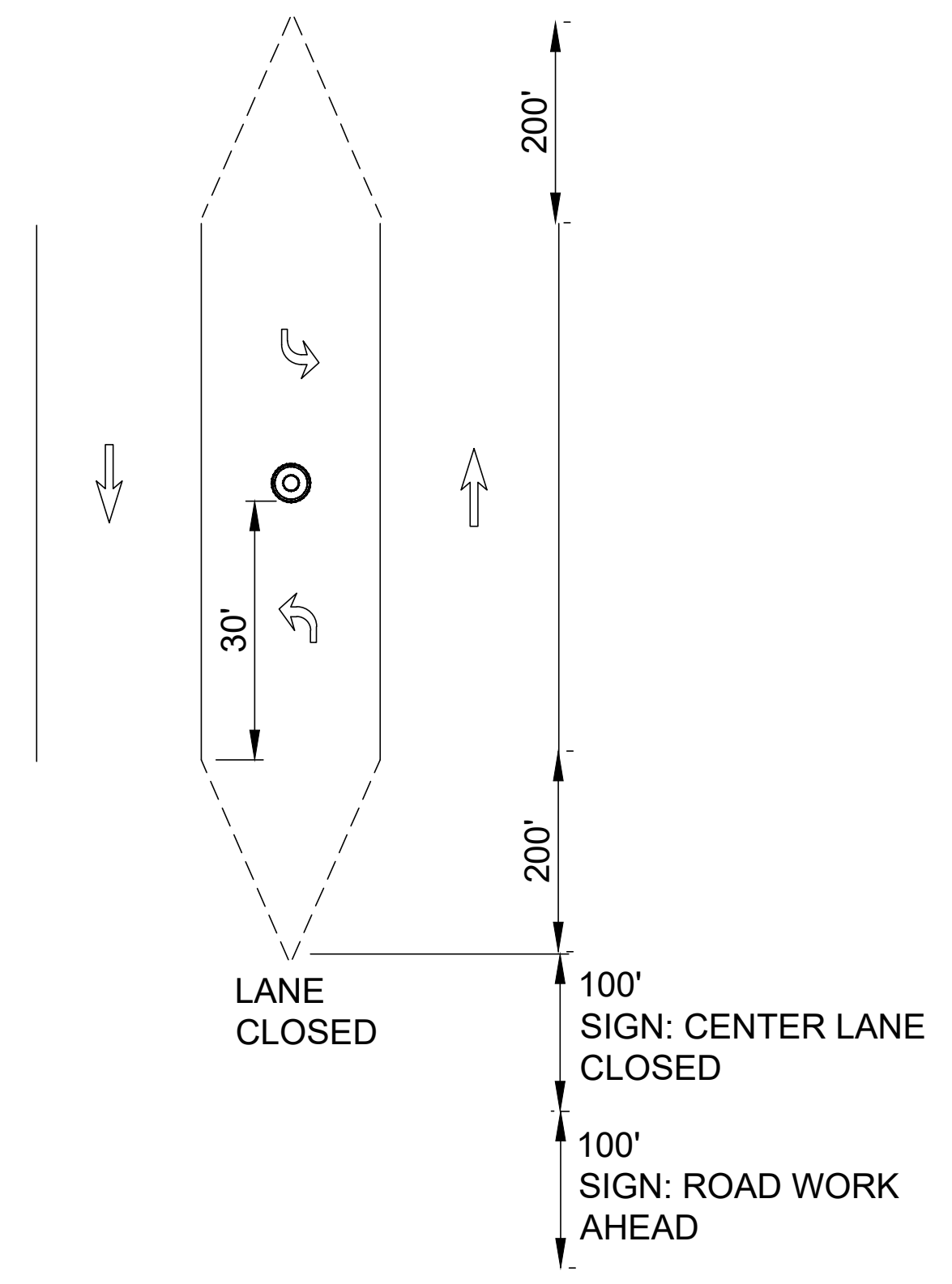
CITY OF WILLOWICK  
E. 305TH STREET  
SEWER IMPROVEMENTS  
WILLOWICK, OHIO LAKE COUNTY  
COVER SHEET

PROJECT NO:	
241085	
DRAWING NAME	
00G-01	
SHEET	OF
1	14

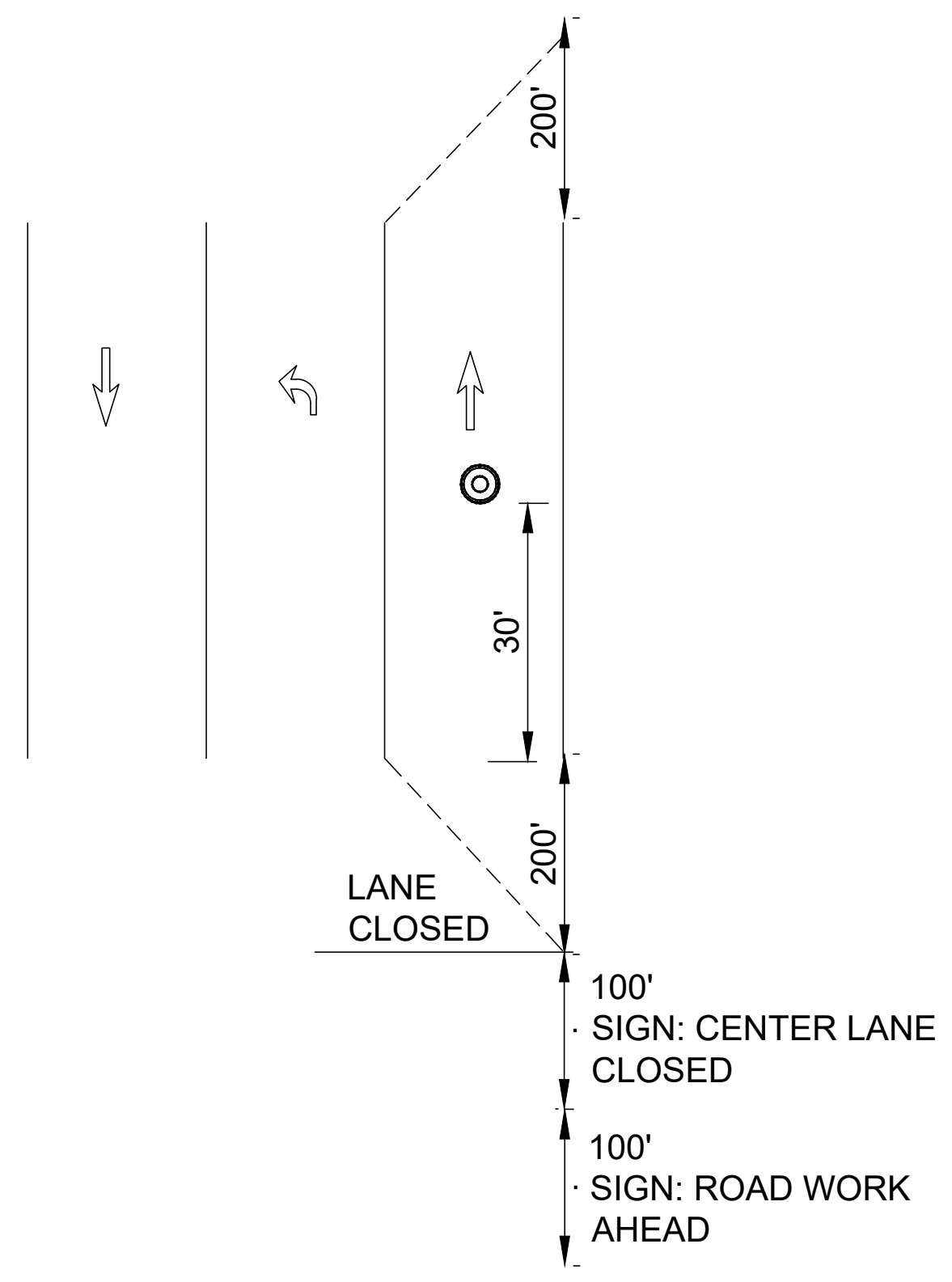




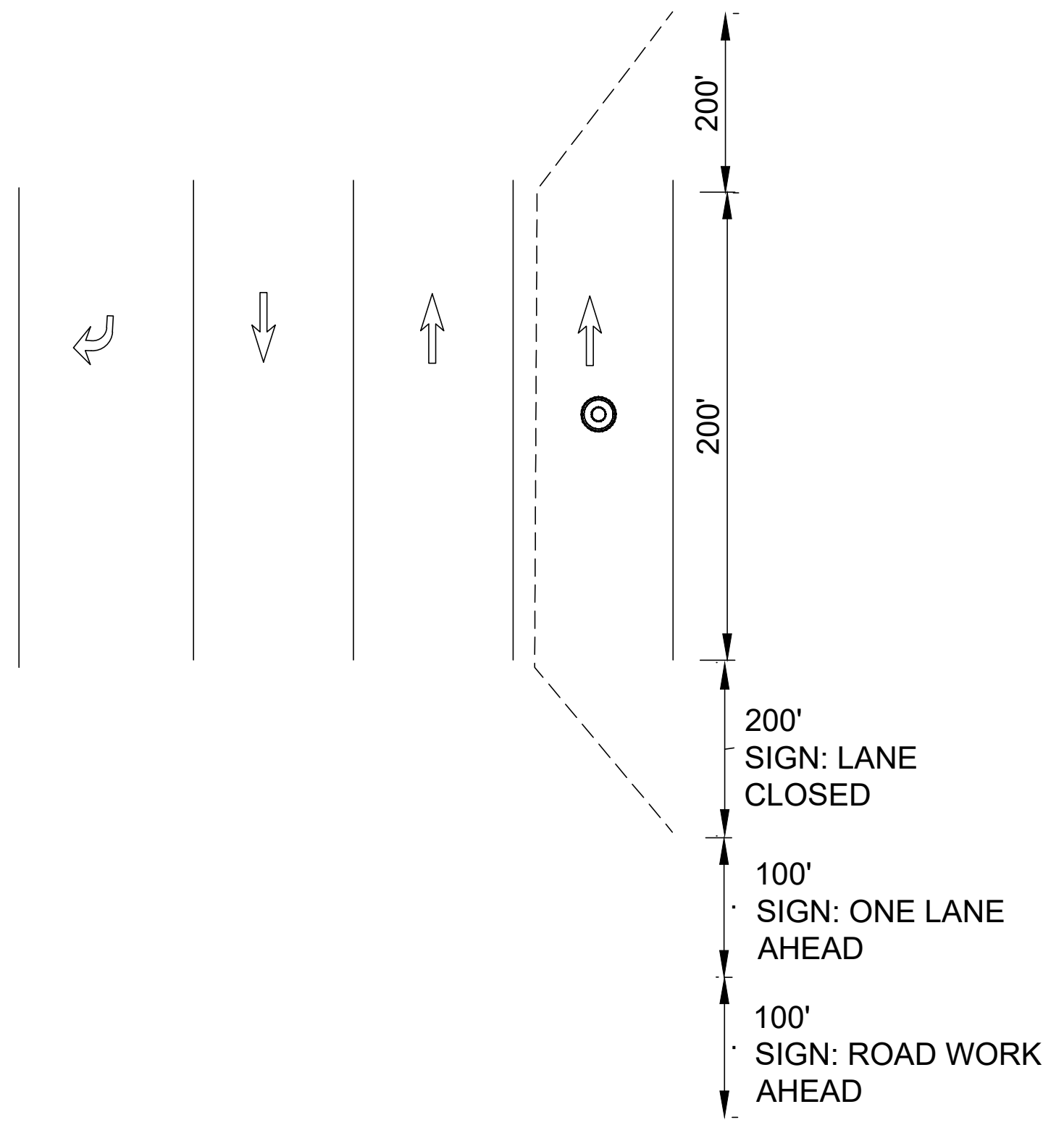
**T consultants**  
engineers • architects • planners  
**A Verdantas Company**



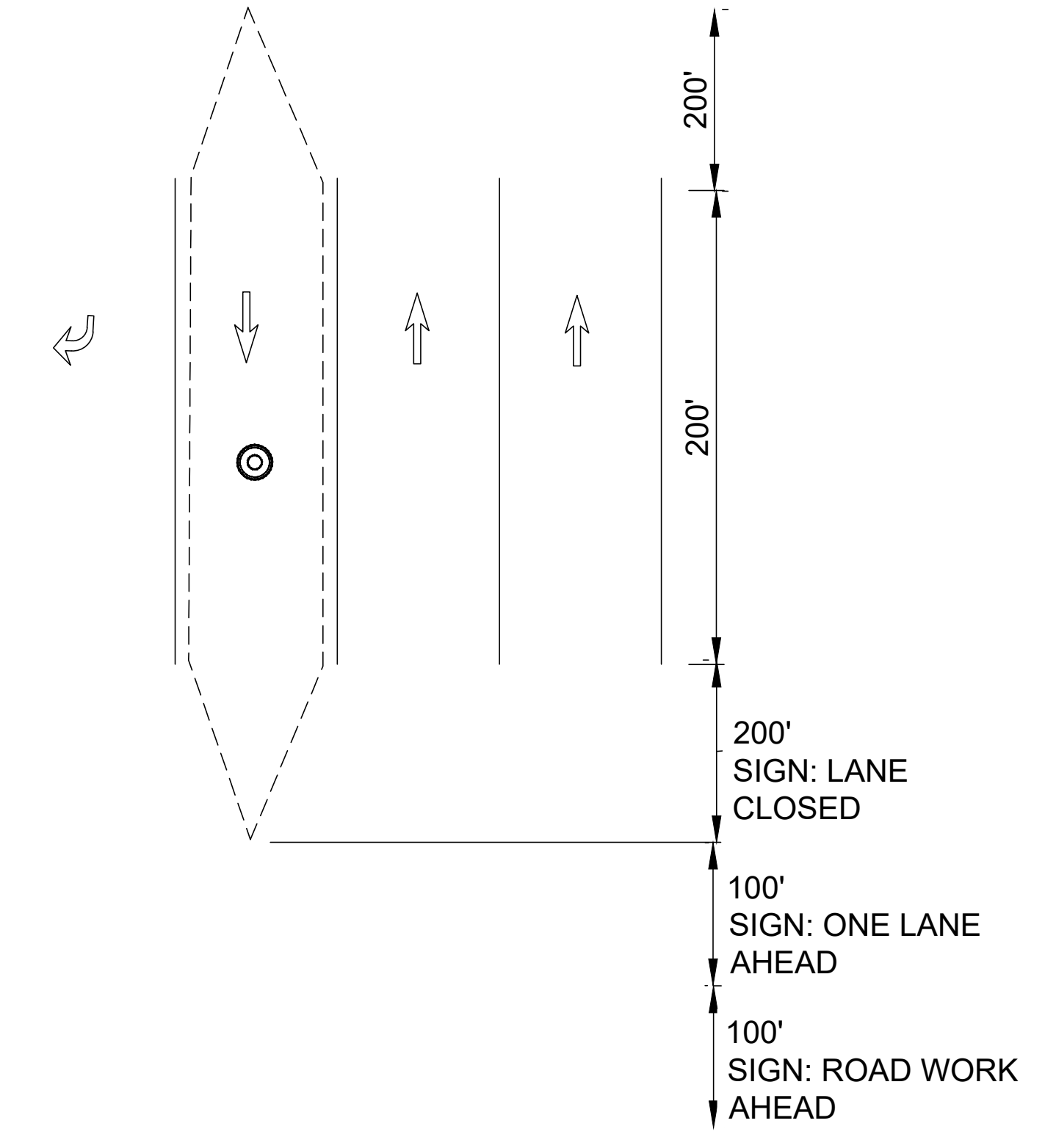
**CENTER LANE CLOSURE, 3 LANES**  
NOT TO SCALE



**CURB LANE CLOSURE, 3 LANES**  
NOT TO SCALE



**CURB LANE CLOSURE, 4 LANES**  
NOT TO SCALE



**LANE CLOSURE, 4 LANES**  
NOT TO SCALE

NO	REVISION	DATE

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**CITY OF WILLOWICK**  
E. 305TH STREET  
SEWER IMPROVEMENTS  
WILLOWICK, OHIO LAKE COUNTY  
**MAINTENANCE OF TRAFFIC DETAIL**

PROJECT NO:	
241085	
DRAWING NAME	
00G-03	
SHEET	OF
3	14

**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. If 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 (W20-1) or END ROAD WORK (G20-2) 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 (W20-1) 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' center-to-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 traffic entering from intersecting streets and major drives as necessary to prevent wrong-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.*

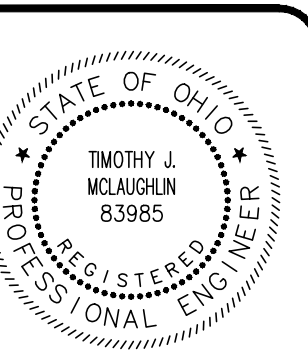
*The method of control shall be subject to the approval of the Engineer.*

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 whenever workers are not in the work area.*

12B. *The shadow vehicle shall be equipped with a high-intensity yellow rotating, flashing, oscillating, or strobe light(s).*

12C. *The shadow vehicle shall be equipped with a truck-mounted or trailer attenuator (TMA) in accordance with CMS 614.03 when called for in the plans.*

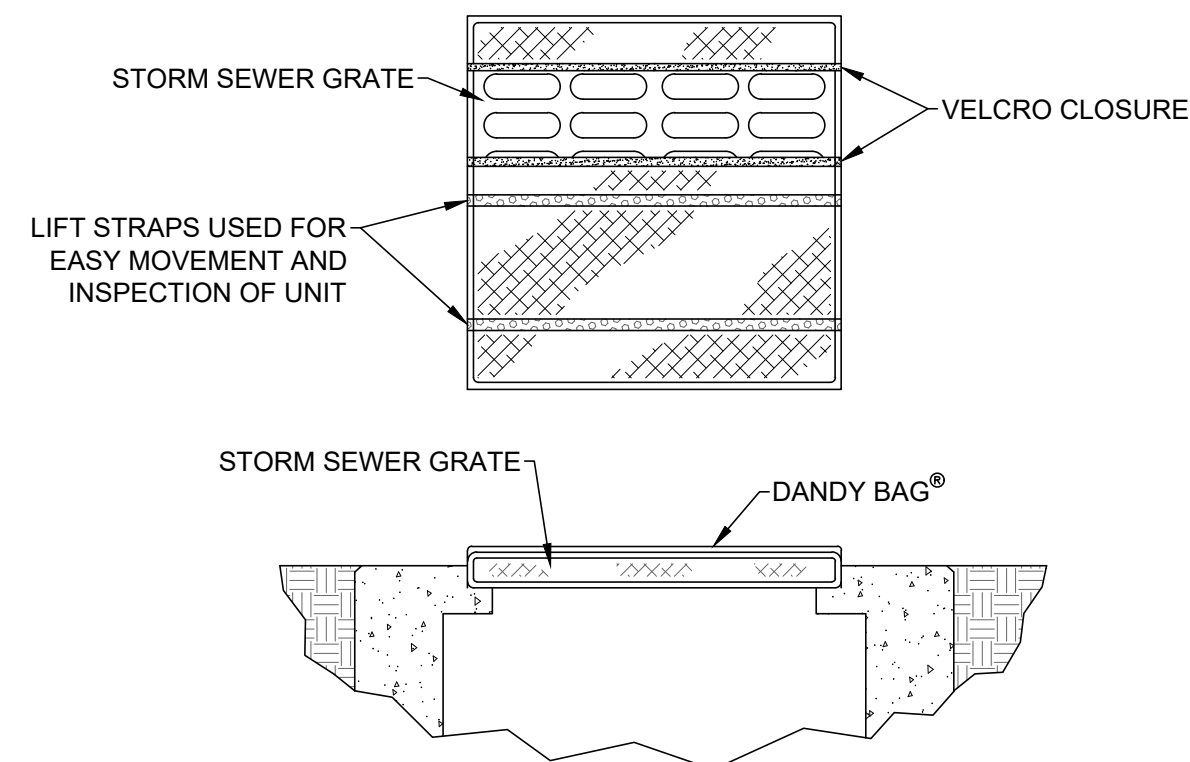


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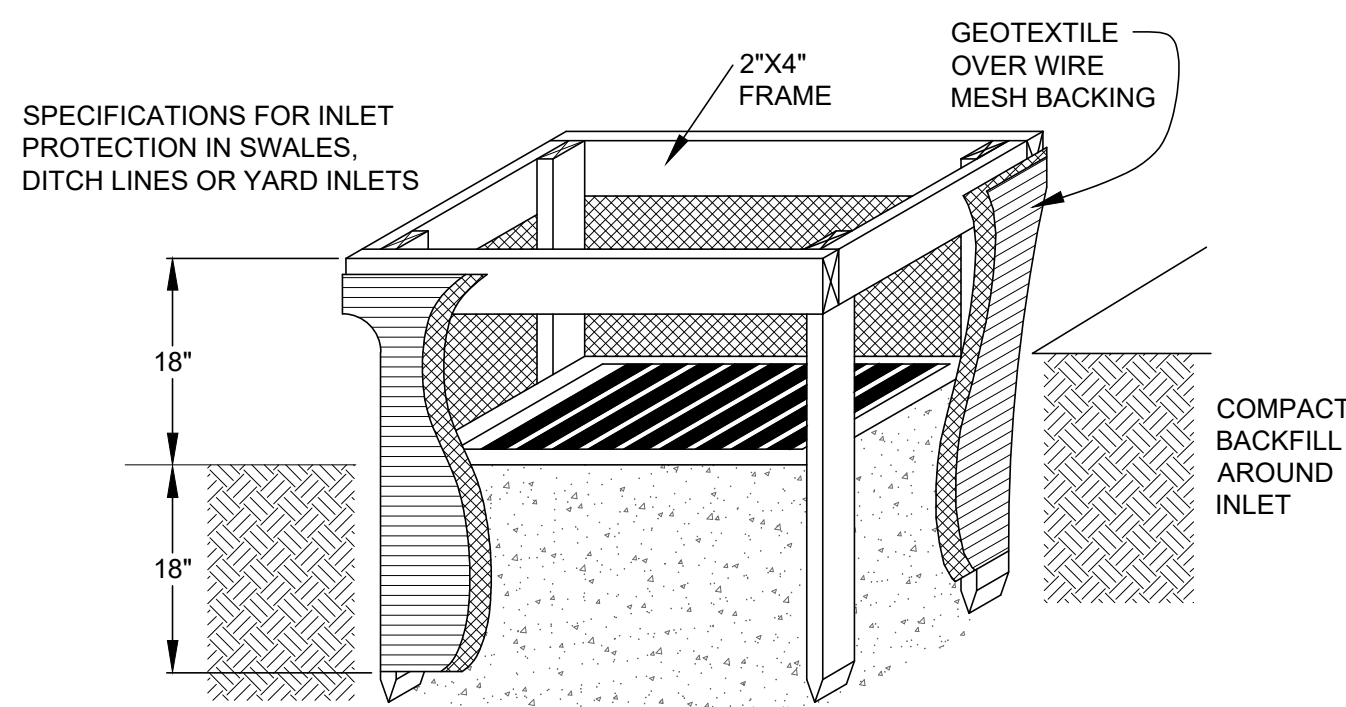
SCALE: AS SHOWN	DATE: 05/31/2024	DESIGNED BY: AMM	DRAWN BY: AMM	CHECKED BY: TJM
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**CITY OF WILLOWICK**  
**E. 305TH STREET**  
**SEWER IMPROVEMENTS**  
**WILLOWICK, OHIO LAKE COUNTY**  
**MAINTENANCE OF**  
**TRAFFIC NOTES**

PROJECT NO:	
241085	
DRAWING NAME	
00G-04	
SHEET	OF
4	14



**INLET PROTECTION ALTERNATIVE DANDY BAG DETAIL**  
NOT TO SCALE



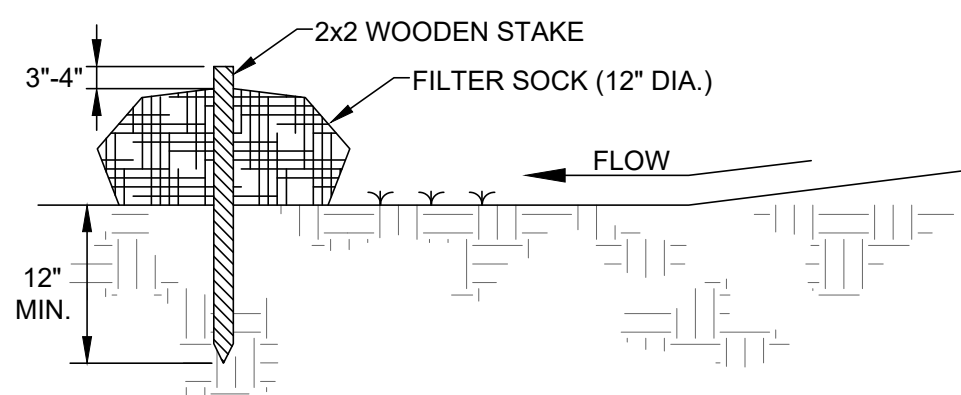
**SPECIFICATIONS FOR INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS:**

- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- 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.
- 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 POST.
- 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.
- 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:**

- 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.
- 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.
- 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.
- 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.
- 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.
- 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".

**INSTALLATION:**

- 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.
- 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.
- FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

**MAINTENANCE:**

- ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- 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.
- REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

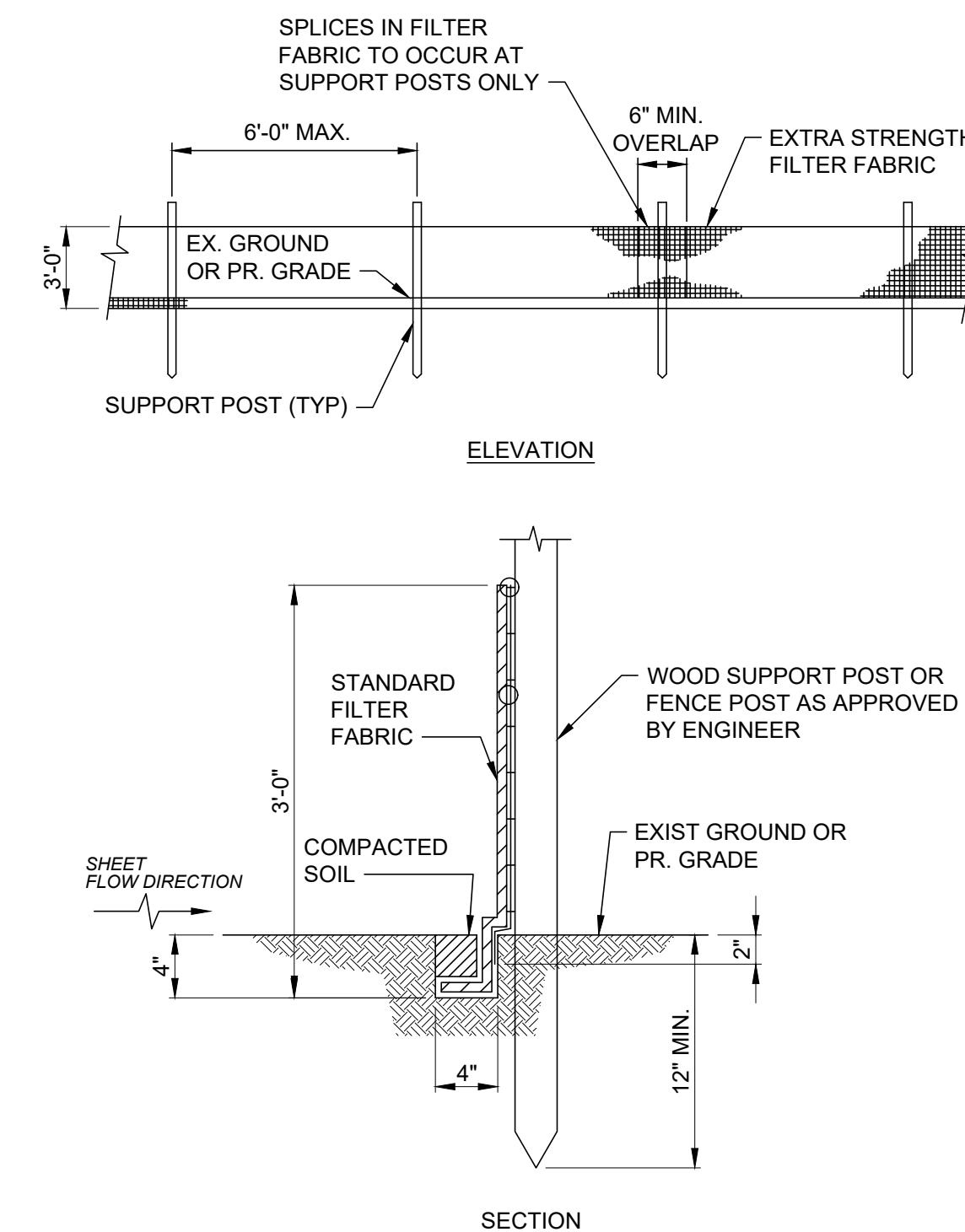
**SILT FENCE ALTERNATIVE FILTER SOCK DETAIL**  
NOT TO SCALE

**SILT FENCE NOTES:**

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- 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.
- 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 FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 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.
- 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:
  - THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED,
  - ACCUMULATED SEDIMENT SHALL BE REMOVED, OR
  - OTHER PRACTICES SHALL BE INSTALLED.
- SILT FENCE MATERIALS
  - 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.
  - 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

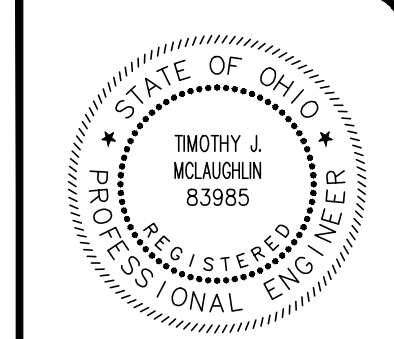
**SILT FENCE**  
NOT TO SCALE



**EROSION CONTROL TIMETABLE**

STABILIZATION	2024/2025											
	J	F	M	A	M	J	J	A	S	O	N	D
TEMP. SEEDING				○	○	⊗	⊗	⊗	⊗	○	○	
PERM. SEEDING				○	○	⊗	⊗	⊗	⊗	○	○	
SODDING				⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
MULCHING	○	○	○	○	○	○	○	○	○	○	○	○

⊗ IRRIGATION NEEDED



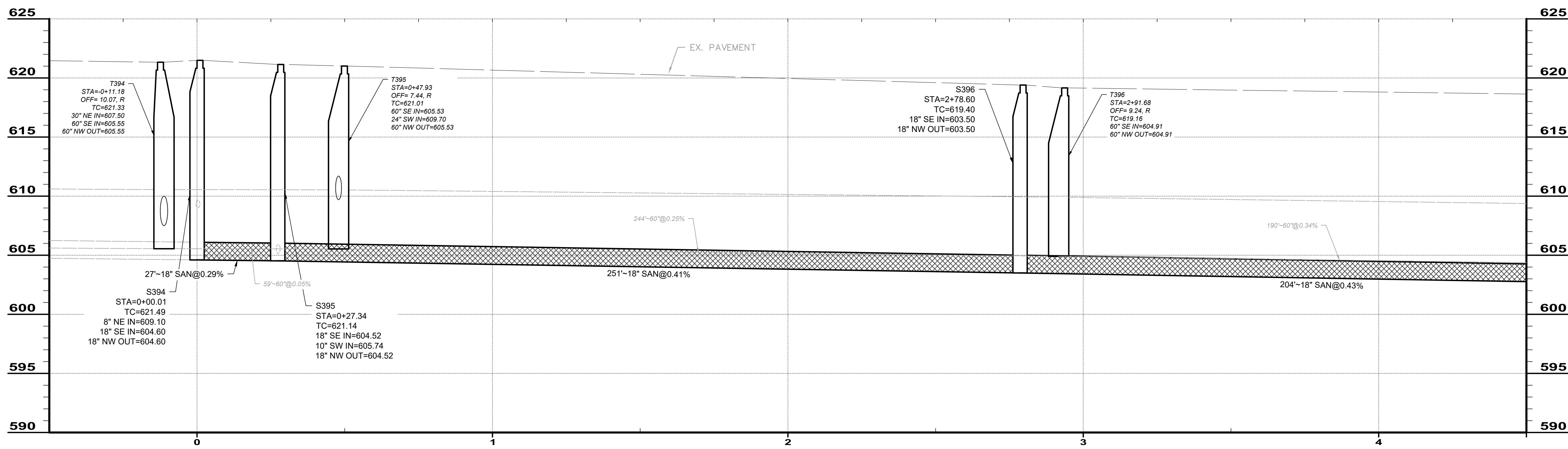
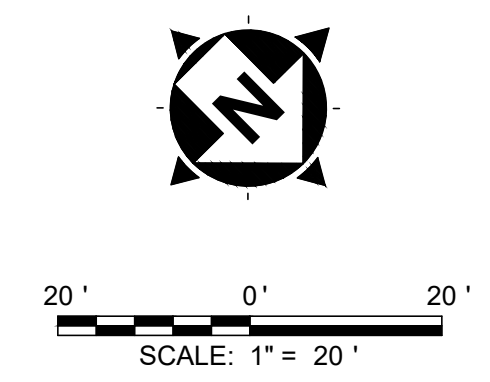
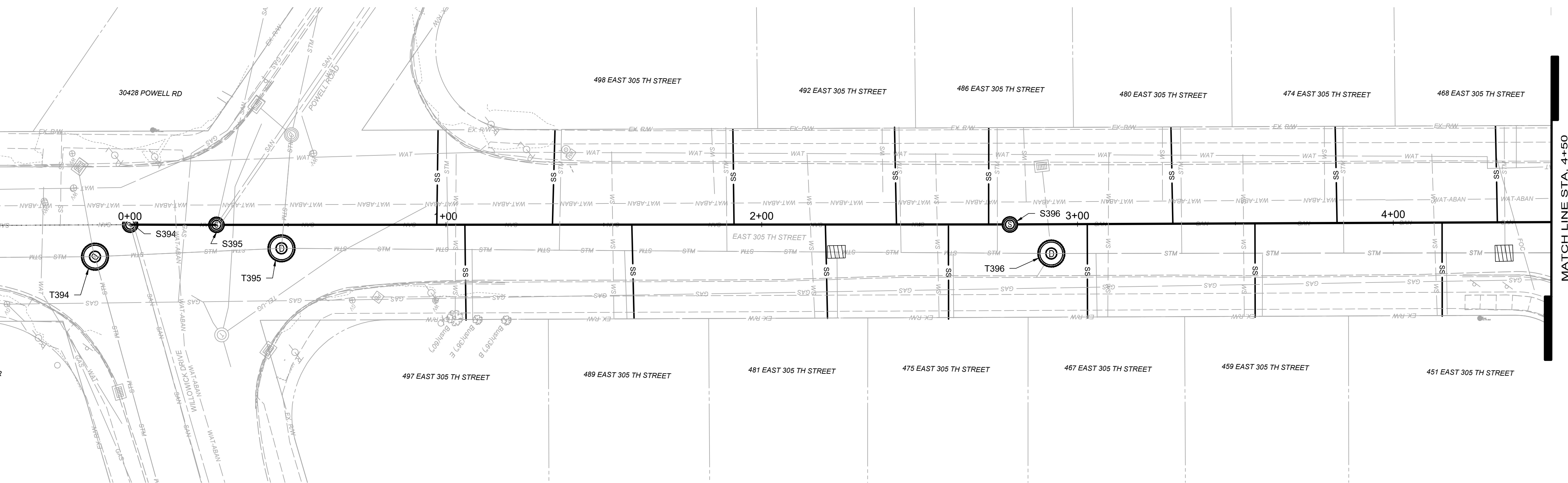
**consultants**  
engineers • architects • planners  
**A Verdantas Company**

NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 05/31/2024	DESIGNED BY: AMM	DRAWN BY: AMM	CHECKED BY: TJM
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**CITY OF WILLOWICK**  
E. 305TH STREET  
SEWER IMPROVEMENTS  
WILLOWICK, OHIO LAKE COUNTY  
**EROSION AND SEDIMENT CONTROL DETAILS**

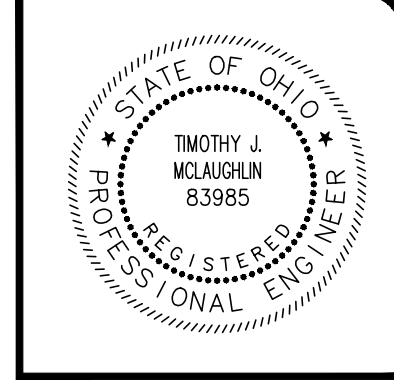
PROJECT NO:	
241085	
DRAWING NAME	
SWPP-01	
SHEET	OF
5	14



**E. 305 TH STREET STATIONING**

**GENERAL NOTES:**

- CONTRACTOR SHALL CLEAN AND TELEVISION 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 RESTORED AT THE COMPLETION OF CONSTRUCTION.
- 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.
- 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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**CITY OF WILLOWICK**  
**E. 305TH STREET**  
**SEWER IMPROVEMENTS**  
**WILLOWICK, OHIO LAKE COUNTY**  
**PLAN AND PROFILE**  
**STA. 0+00 TO 4+50**

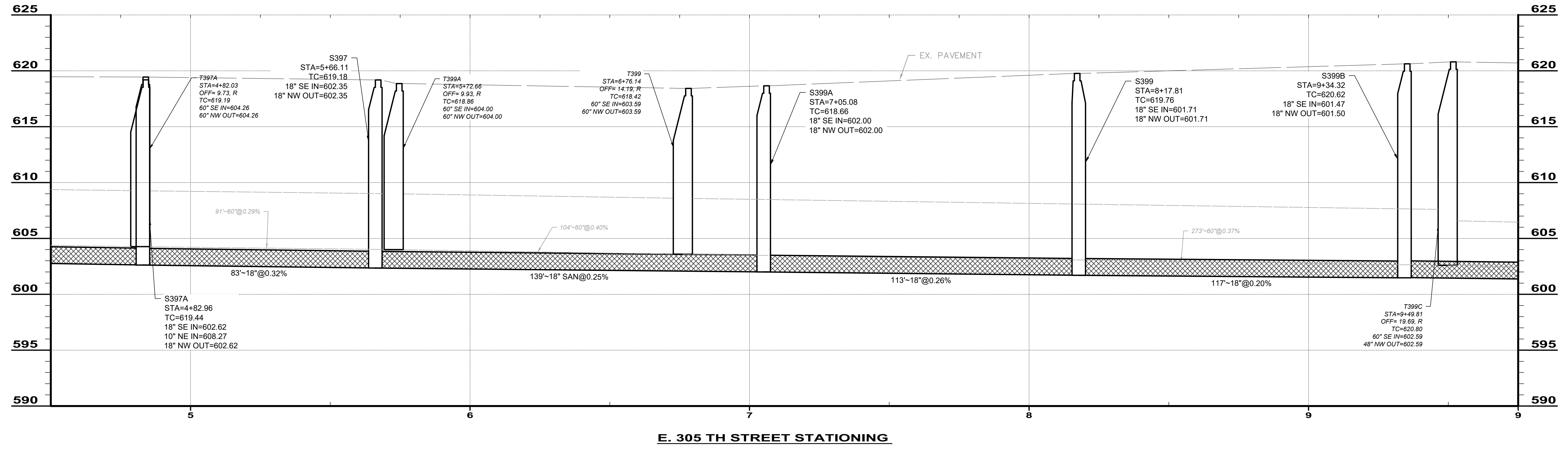
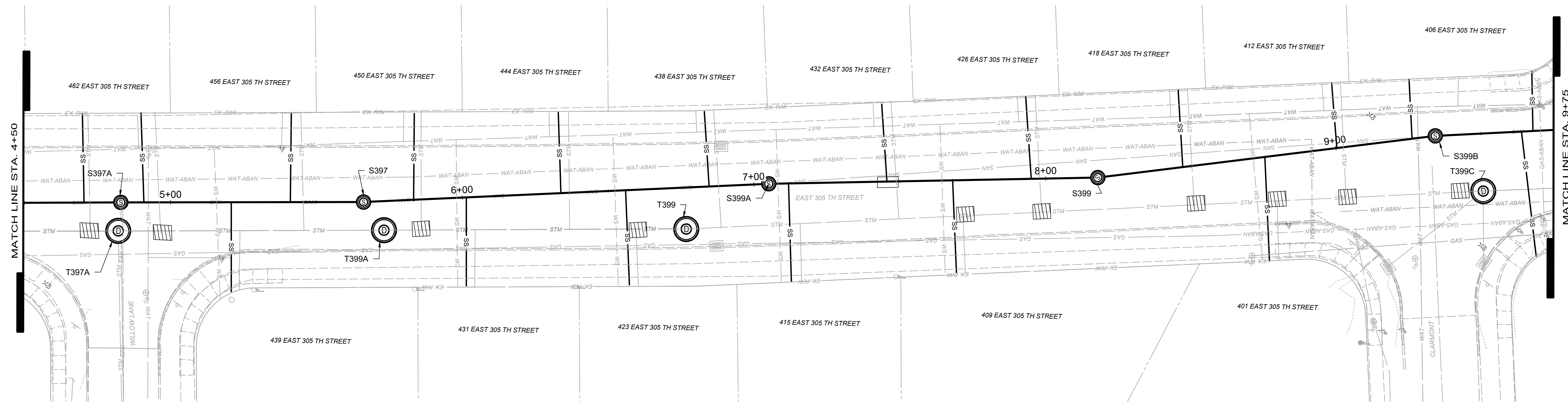
PROJECT NO:	
241085	
DRAWING NAME	
10C-01	
SHEET	OF
6	14



SCALE: 1" = 20'



**consultants**  
engineers • architects • planners  
**A Verdantas Company**



**E. 305 TH STREET STATIONING**

**GENERAL NOTES:**

- CONTRACTOR SHALL CLEAN AND TELEVISION 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 RESTORED AT THE COMPLETION OF CONSTRUCTION.
- 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.
- CONTRACTOR TO LINE SANITARY SEWER USING CURED-IN-PLACE LINING OR FOLD AND FORM PIPE LINING. ENGINEER TO MAKE FINAL DETERMINATION BASED ON PRICING.

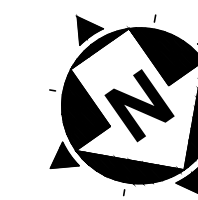
NO	REVISION	DATE

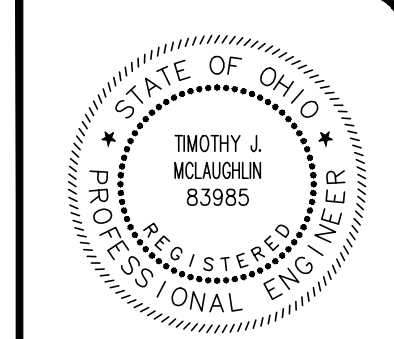
SCALE: AS SHOWN	DATE: 05/31/2024	DESIGNED BY: AMM	DRAWN BY: AMM	CHECKED BY: TJM
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**CITY OF WILLOWICK**  
**E. 305TH STREET**  
**SEWER IMPROVEMENTS**  
**WILLOWICK, OHIO LAKE COUNTY**  
**PLAN AND PROFILE**  
**STA. 4+50 TO 9+75**

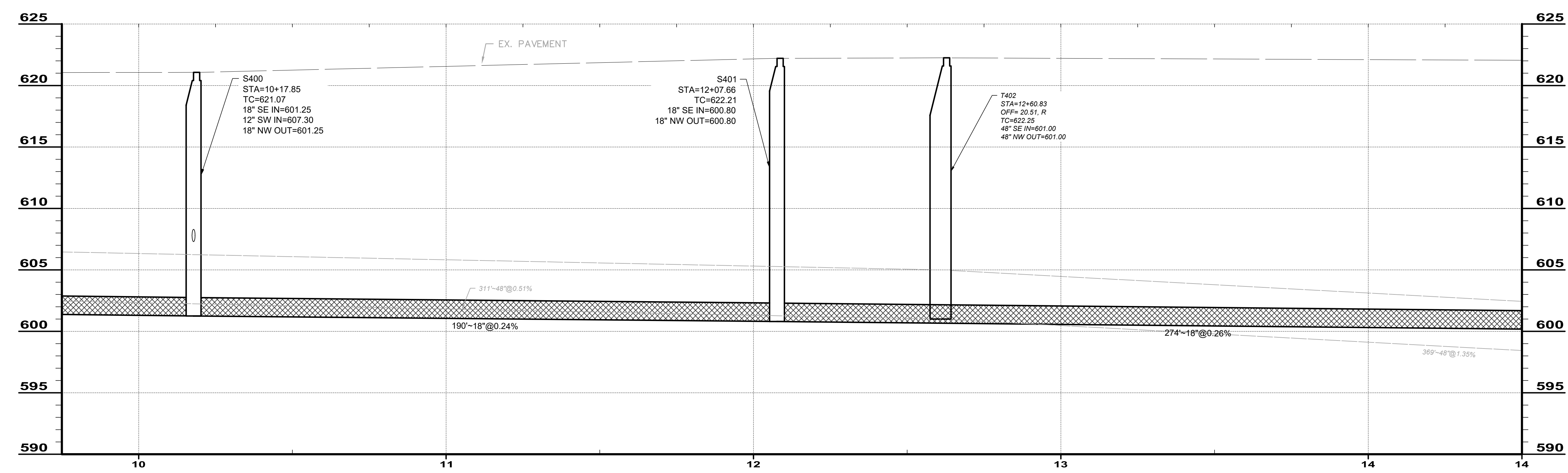
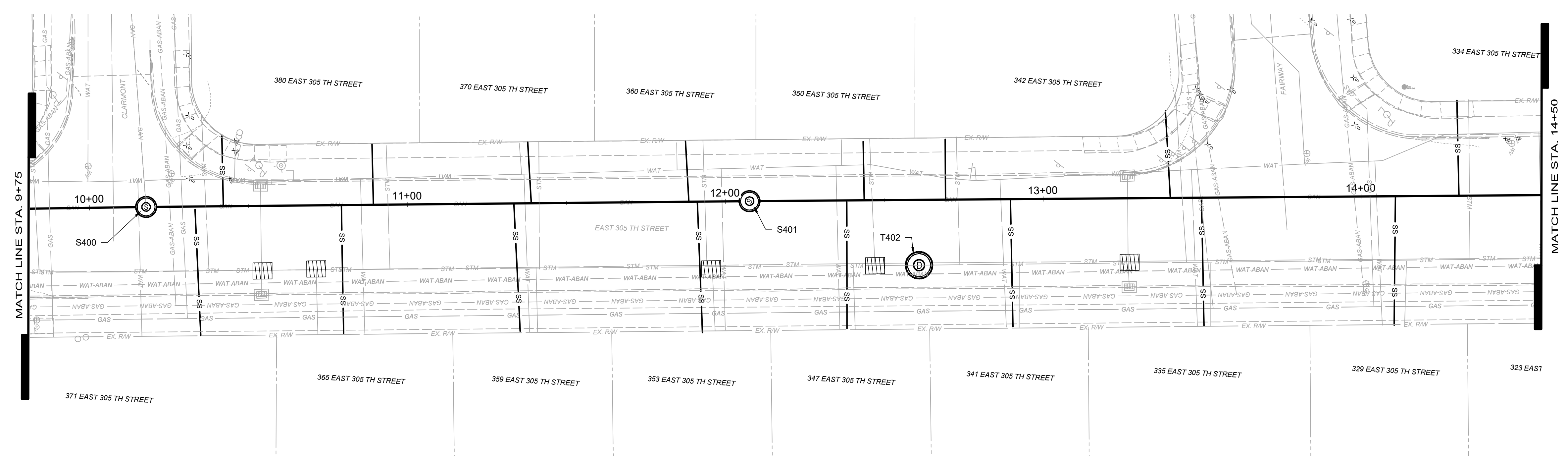
PROJECT NO:	
241085	
DRAWING NAME	
10C-02	
SHEET	OF
7	14



20' 0' 20'  
SCALE: 1" = 20'



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**E. 305 TH STREET STATIONING**

**GENERAL NOTES:**

1. CONTRACTOR SHALL CLEAN AND TELEVIEW 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.
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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.

NO	REVISION	DATE

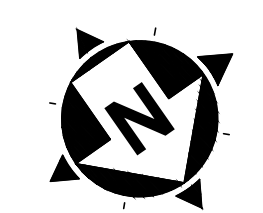
SCALE: AS SHOWN	DATE: 05/31/2024	DESIGNED BY: AMM	DRAWN BY: AMM	CHECKED BY: TJM
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**CITY OF WILLOWICK**  
**E. 305TH STREET**  
**SEWER IMPROVEMENTS**  
**WILLOWICK, OHIO LAKE COUNTY**  
**PLAN AND PROFILE**  
**STA. 9+75 TO 14+50**

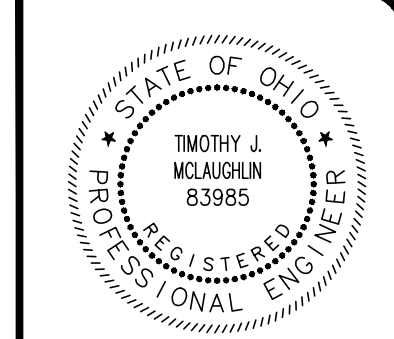
PROJECT NO:	
241085	
DRAWING NAME	
10C-03	
SHEET	OF
8	14



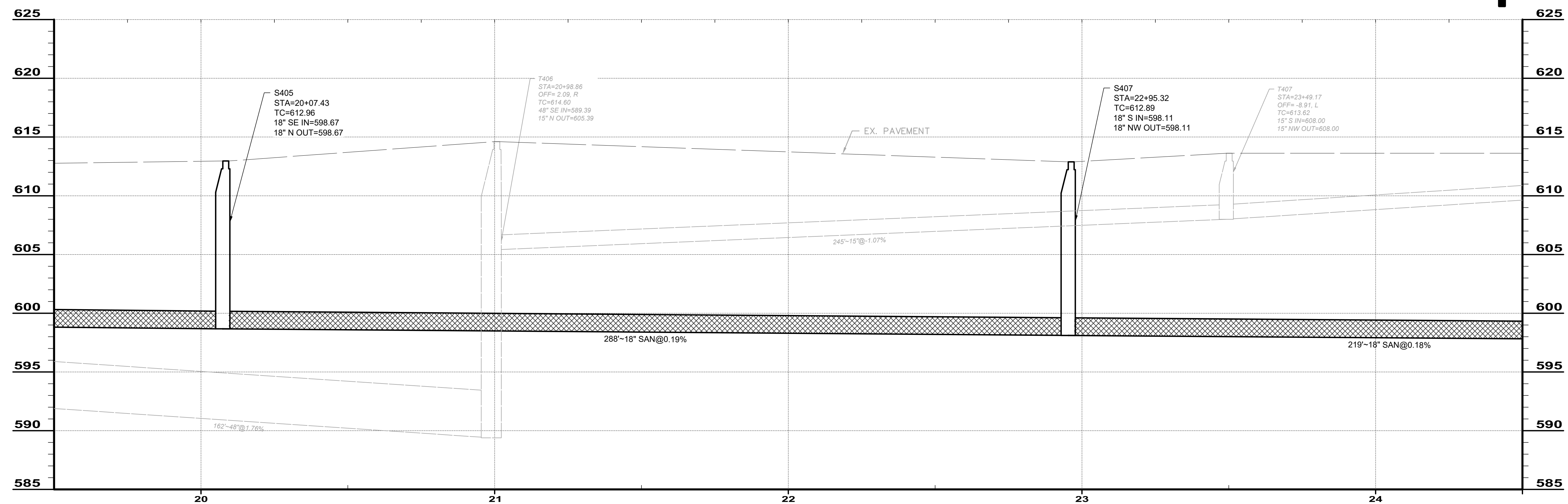
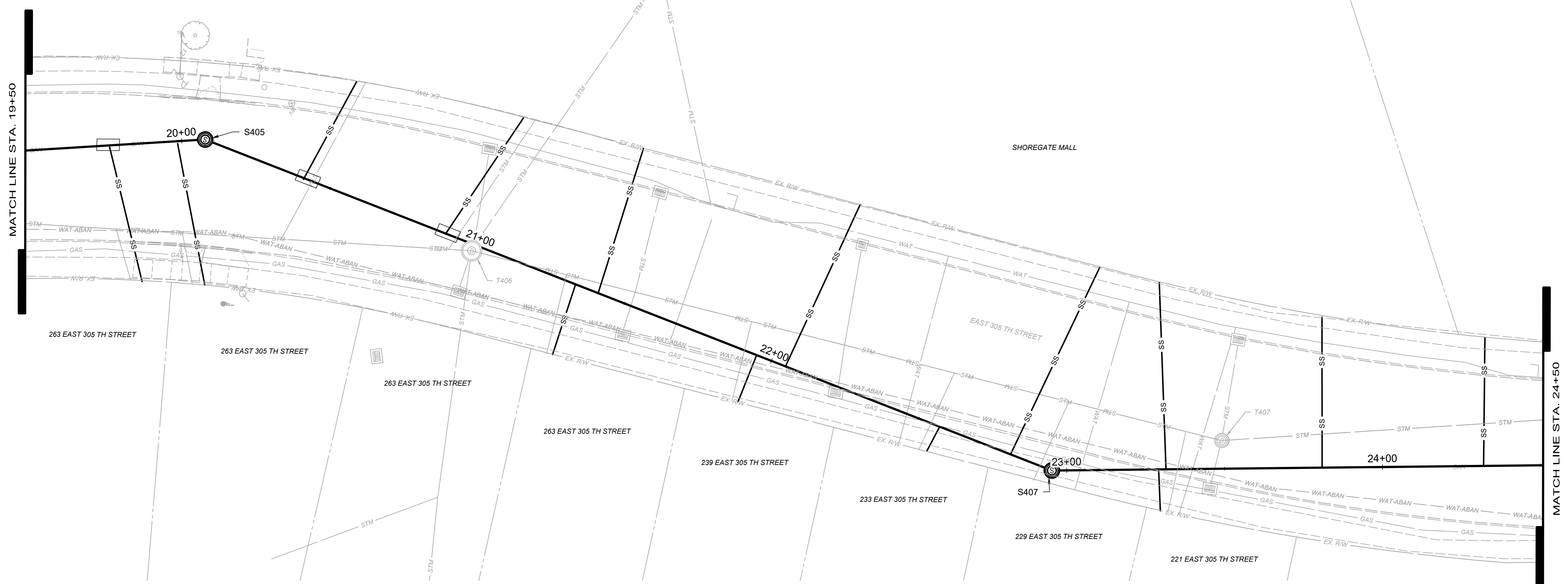




20' 0' 20'  
SCALE: 1" = 20'



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**E. 305 TH STREET STATIONING**

**GENERAL NOTES:**

1. CONTRACTOR SHALL CLEAN AND TELEVIEW 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.
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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.
6. CONTRACTOR SHALL RESTORE CROSS OVER CONNECTION TO STORM AT STA. 21+00.

NO	REVISION	DATE

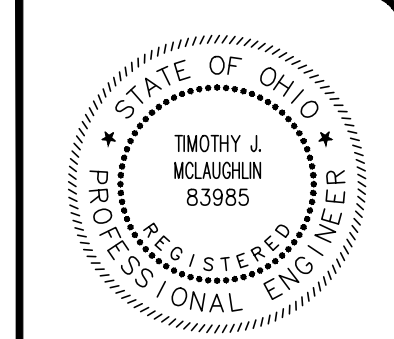
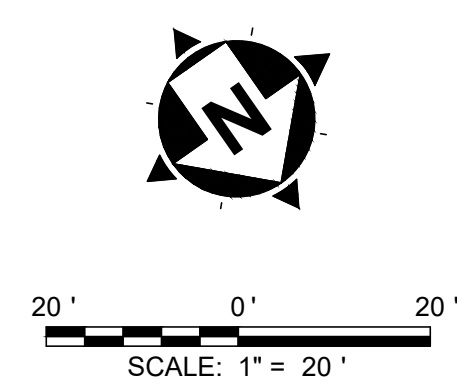
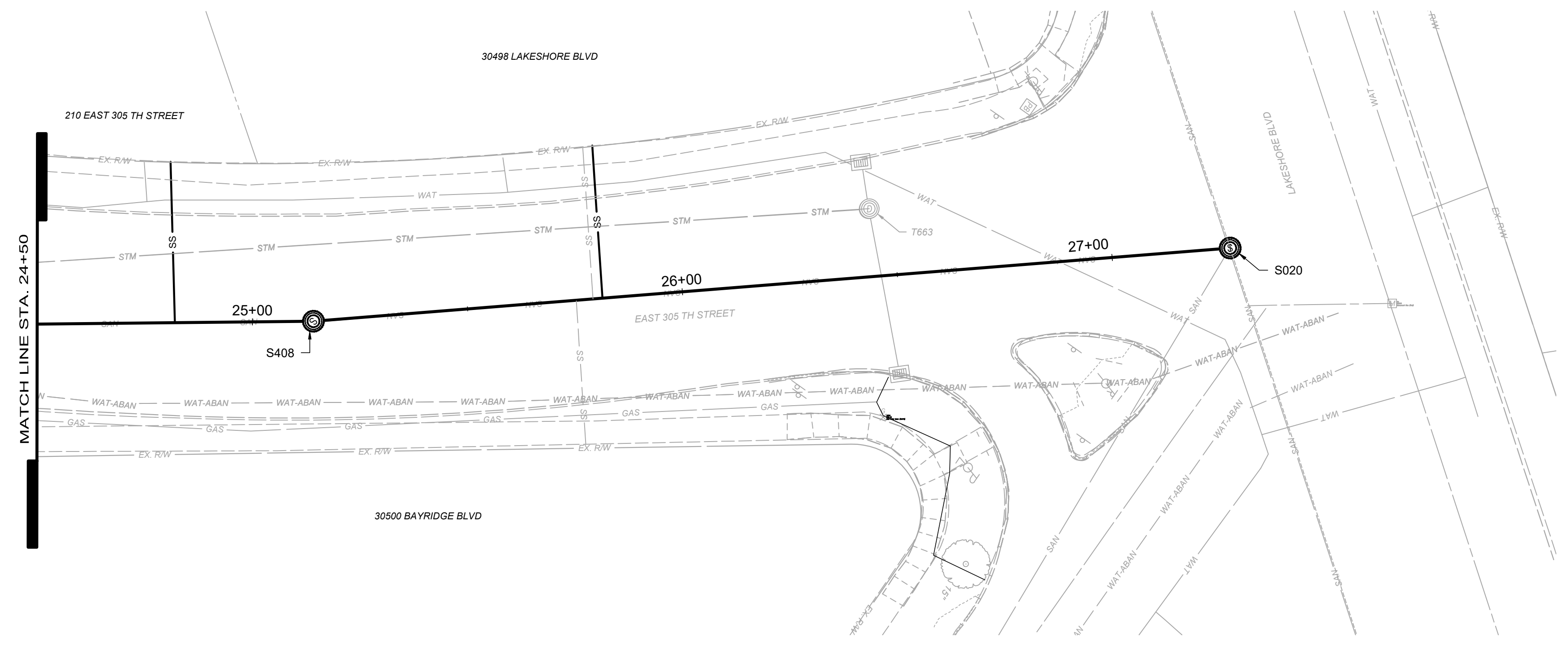
  

SCALE: AS SHOWN	DATE: 05/31/2024	DESIGNED BY: AMM	DRAWN BY: AMM	CHECKED BY: TJM
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**CITY OF WILLOWICK**  
**E. 305TH STREET**  
**SEWER IMPROVEMENTS**  
**WILLOWICK, OHIO LAKE COUNTY**

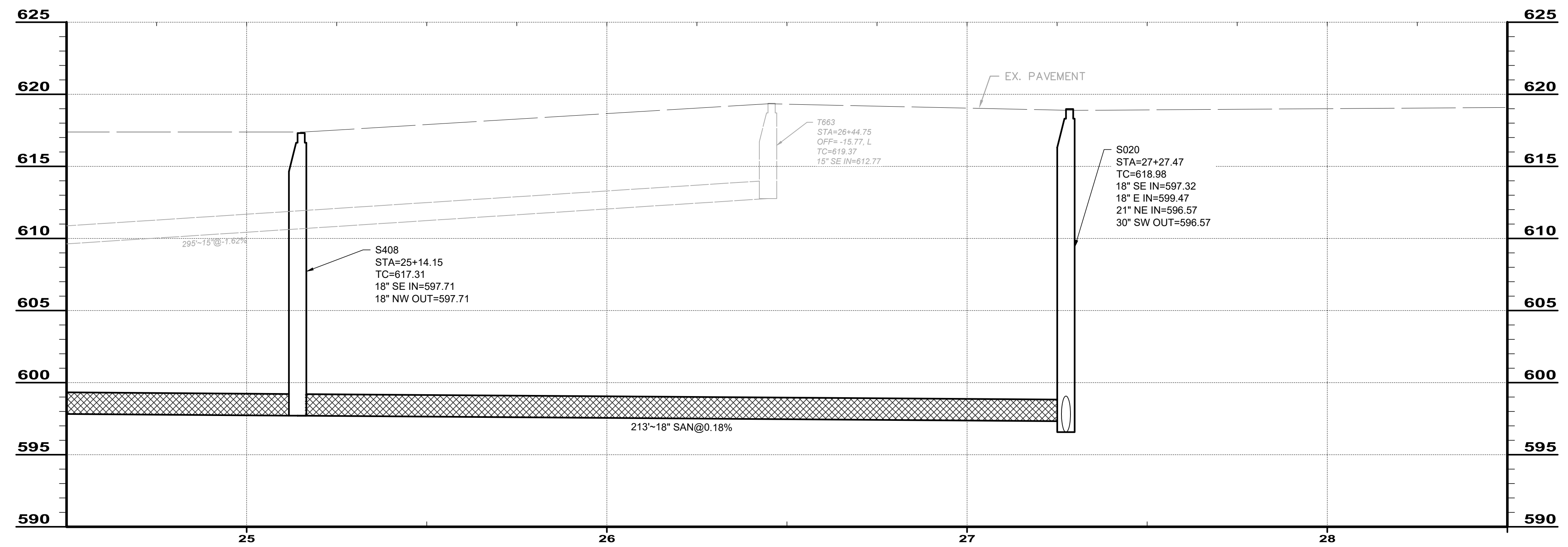
**PLAN AND PROFILE**  
**STA. 19+50 TO 24+50**

PROJECT NO:	
241085	
DRAWING NAME	
10C-05	
SHEET	OF
10	14



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**E. 305 TH STREET STATIONING**

**GENERAL NOTES:**

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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.

NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 05/31/2024	DESIGNED BY: AMM	DRAWN BY: AMM	CHECKED BY: TJM
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**CITY OF WILLOWICK**  
**E. 305TH STREET**  
**SEWER IMPROVEMENTS**  
**WILLOWICK, OHIO LAKE COUNTY**

**PLAN AND PROFILE**  
**STA. 24+50 TO END**

PROJECT NO:	
241085	
DRAWING NAME	
10C-06	
SHEET	OF
11	14





STORM DEPOSIT CUT		
US MH	DS MH	STA. OF DEPOSIT CUT
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

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

SANITARY SEWER POINT REPAIR						
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		

MANHOLE LINING							
MH ID	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	Y	N	
T394	0+00	8	15.78	BRICK	Y	N	
T395	0+48	8	15.48	BRICK	Y	N	
S396	2+79	4	15.9	BRICK	Y	N	
T396	2+92	8	14.25	BRICK	Y	N	
S397A	4+82	4	14.93	BRICK	Y	N	
T397A	4+83	8	16.82	BRICK	Y	N	
S397	5+66	4	16.83	BRICK	Y	N	
T399A	5+73	8	14.86	BRICK	Y	N	
T399	6+76	8	14.83	BRICK	Y	N	
S399A	7+05	4	16.66	BRICK	Y	N	
S399	8+18	4	18.05	BRICK	Y	N	
S399B	9+34	4	19.15	BRICK	Y	N	
T399C	9+50	8	18.21	BRICK	Y	N	
S400	10+18	4	19.82	BRICK	Y	N	
S401	12+08	4	21.41	BRICK	Y	N	
T402	12+61	8	21.25	BRICK	Y	N	
S402	14+82	4	20.93	BRICK	Y	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	

LATERAL REPAIR							
ADDRESS	STATION	SEWER TYPE	MATERIAL	SIZE (INCH)	CIPP LINING (Y/N)	FIELD TEE REPAIR (Y/N)	REPLACEMENT (Y/N)
498 EAST 305TH STREET	0+97	SAN	VCP	6	Y	N	N
498 EAST 305TH STREET	1+00	STM	VCP	6	N	N	N
497 EAST 305TH STREET	1+06	SAN	VCP	6	Y	N	N
497 EAST 305TH STREET	1+09	STM	VCP	6	N	N	N
498 EAST 305TH STREET	1+34	SAN	VCP	6	Y	N	N
498 EAST 305TH STREET	1+36	STM	VCP	6	N	N	N
489 EAST 305TH STREET	1+56	STM	VCP	6	N	N	N
489 EAST 305TH STREET	1+59	SAN	VCP	6	Y	N	N
498 EAST 305TH STREET	1+89	STM	VCP	6	N	N	N
498 EAST 305TH STREET	1+91	SAN	VCP	6	Y	N	N
481 EAST 305TH STREET	2+20	SAN	VCP	6	Y	N	N
481 EAST 305TH STREET	2+25	STM	VCP	6	N	N	N
492 EAST 305TH STREET	2+42	SAN	VCP	6	Y	N	N
492 EAST 305TH STREET	2+44	STM	VCP	6	N	N	N
475 EAST 305TH STREET	2+59	SAN	VCP	6	Y	N	N
475 EAST 305TH STREET	2+61	STM	VCP	6	N	N	N
486 EAST 305TH STREET	2+71	SAN	VCP	6	Y	N	N
486 EAST 305TH STREET	2+74	STM	VCP	6	N	N	N
467 EAST 305TH STREET	3+03	SAN	VCP	6	Y	N	N
467 EAST 305TH STREET	3+06	STM	VCP	6	N	N	N
480 EAST 305TH STREET	3+30	SAN	VCP	6	Y	N	N
480 EAST 305TH STREET	3+33	STM	VCP	6	N	N	N
459 EAST 305TH STREET	3+56	SAN	VCP	6	Y	N	N
459 EAST 305TH STREET	3+59	STM	VCP	6	N	N	N
474 EAST 305TH STREET	3+82	SAN	VCP	6	Y	N	N
474 EAST 305TH STREET	3+84	STM	VCP	6	N	N	N
451 EAST 305TH STREET	4+15	SAN	VCP	6	Y	N	N
451 EAST 305TH STREET	4+17	STM	VCP	6	N	N	N
468 EAST 305TH STREET	4+33	SAN	VCP	6	Y	N	N
468 EAST 305TH STREET	4+35	STM	VCP	6	N	N	N
462 EAST 305TH STREET	4+70	SAN	VCP	6	Y	N	N
462 EAST 305TH STREET	4+72	STM	VCP	6	N	N	N
462 EAST 305TH STREET	4+91	SAN	VCP	6	Y	N	N
462 EAST 305TH STREET	4+96	STM	VCP	6	N	N	N
439 EAST 305TH STREET	5+20	SAN	VCP	6	Y	N	N
439 EAST 305TH STREET	5+23	STM	VCP	6	N	N	N
456 EAST 305TH STREET	5+41	SAN	VCP	6	Y	N	N
456 EAST 305TH STREET	5+45	STM	VCP	6	N	N	N
450 EAST 305TH STREET	5+83	SAN	VCP	6	Y	N	N
450 EAST 305TH STREET	5+86	STM	VCP	6	N	N	N
431 EAST 305TH STREET	6+01	SAN	VCP	6	Y	N	N
431 EAST 305TH STREET	6+05	STM	VCP	6	N	N	N
444 EAST 305TH STREET	6+34	SAN	VCP	6	Y	N	N
444 EAST 305TH STREET	6+37	STM	VCP	6	N	N	N
423 EAST 305TH STREET	6+56	SAN	VCP	6	Y	N	N
423 EAST 305TH STREET	6+59	STM	VCP	6	N	N	N
438 EAST 305TH STREET	6+84	SAN	VCP	6	Y	N	N
438 EAST 305TH STREET	6+87	STM	VCP	6	N	N	N
415 EAST 305TH STREET	7+12	SAN	VCP	6	Y	N	N
415 EAST 305TH STREET	7+16	STM	VCP	6	N	N	N
432 EAST 305TH STREET	7+46	SAN	VCP	6	Y	Y	N
432 EAST 305TH STREET	7+49	STM	VCP	6	N	N	N
409 EAST 305TH STREET	7+68	SAN	VCP	6	Y	N	N
409 EAST 305TH STREET	7+71	STM	VCP	6	N	N	N
426 EAST 305TH STREET	7+95	SAN	VCP	6	Y	N	N
426 EAST 305TH STREET	7+98	STM	VCP	6	N	N	N
418 EAST 305TH STREET	8+47	SAN	VCP	6	Y	N	N
418 EAST 305TH STREET	8+50	STM	VCP	6	N	N	N
401 EAST 305TH STREET	8+75	SAN	VCP	6	Y	N	N
401 EAST 305TH STREET	8+79	STM	VCP	6	N	N	N
412 EAST 305TH STREET	9+00	SAN	VCP	6	Y	N	N
412 EAST 305TH STREET	9+03	STM	VCP	6	N	N	N
406 EAST 305TH STREET	9+26	SAN	VCP	6	Y	N	N
371 EAST 305TH STREET	9+64	SAN	VCP	6	Y	N	N
406 EAST 305TH STREET	9+67	SAN	VCP	6	Y	N	N
406 EAST 305TH STREET	9+83	STM	VCP	6	N	N	N
371 EAST 305TH STREET	9+89	STM	VCP	6	N	N	N
371 EAST 305TH STREET	10+33	SAN	VCP	6	Y	N	N
380 EAST 305TH STREET	10+36	STM	VCP	6	N	N	N
380 EAST 305TH STREET	10+42	SAN	VCP	6	Y	N	N
365 EAST 305TH STREET	10+71	STM	VCP	6	N	N	N
365 EAST 305TH STREET	10+79	SAN	VCP	6	Y	N	N
380 EAST 305TH STREET	10+89	SAN	VCP	6	Y	N	N
380 EAST 305TH STREET	10+93	STM	VCP	6	N	N	N
359 EAST 305TH STREET	11+34	SAN	VCP	6	Y	N	N
370 EAST 305TH STREET	11+39	SAN	VCP	6	Y	N	N
359 EAST 305TH STREET	11+40	STM	VCP	6	N	N	N
370 EAST 305TH STREET	11+41	STM	VCP	6	N	N	N
360 EAST 305TH STREET	11+88	SAN	VCP	6	Y	N	N
353 EAST 305TH STREET	11+90	SAN	VCP	6	Y	N	N
360 EAST 305TH STREET	11+93	STM	VCP	6	N	N	N
353 EAST 305TH STREET	11+94	STM	VCP	6	N	N	N
347 EAST 305TH STREET	12+38	SAN	VCP	6	Y	N	N
347 EAST 305TH STREET	12+40	STM	VCP	6	N	N	N
350 EAST 305TH STREET	12+43	SAN	VCP	6	Y	N	N
350 EAST 305TH STREET	12+46	STM	VCP	6	N	N	N
342 EAST 305TH STREET	12+69	SAN	VCP	6	Y	N	N
342 EAST 305TH STREET	12+73	STM	VCP	6	N	N	N

LATERAL REPAIR							
ADDRESS	STATION	SEWER TYPE	MATERIAL	SIZE (INCH)	CIPP LINING (Y/N)	FIELD TEE 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
334 EAST 305TH STREET	14+30	SAN	VCP	6	Y	N	N
334 EAST 305TH STREET	14+34	STM	VCP	6	N	N	N
323 EAST 305TH STREET	14+65	SAN	VCP	6	Y	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	Y	N	N
311 EAST 305TH STREET	15+61	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	15+79	SAN	VCP	6	Y	N	N
29700 LAKE SHORE BLVD	15+84	STM	VCP	6	N	N	N
305 EAST 305TH STREET	16+08	SAN	VCP	6	Y	Y	N
305 EAST 305TH STREET	16+13	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	16+32	SAN	VCP	6	Y	N	N
29700 LAKE SHORE BLVD	16+36	STM	VCP	6	N	N	N
299 EAST 305TH STREET	16+59	SAN	VCP	6	Y	N	N
299 EAST 305TH STREET	16+63	STM	VCP	6	N	N	N
29700 LAKE SHORE BLVD	16+81	SAN	VCP	6	Y	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	N	N
29700 LAKE SHORE BLVD	17+82	SAN	VCP	6	Y	Y	N
29700 LAKE SHORE BLVD	17+85	STM	VCP	6	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	Y		