

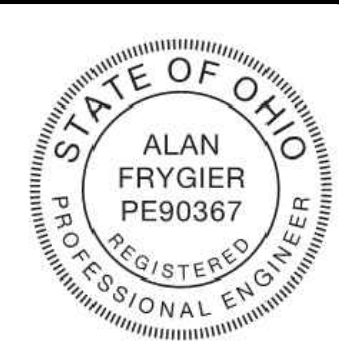
# VILLAGE OF SMITHVILLE

## 2025 SANITARY SEWER

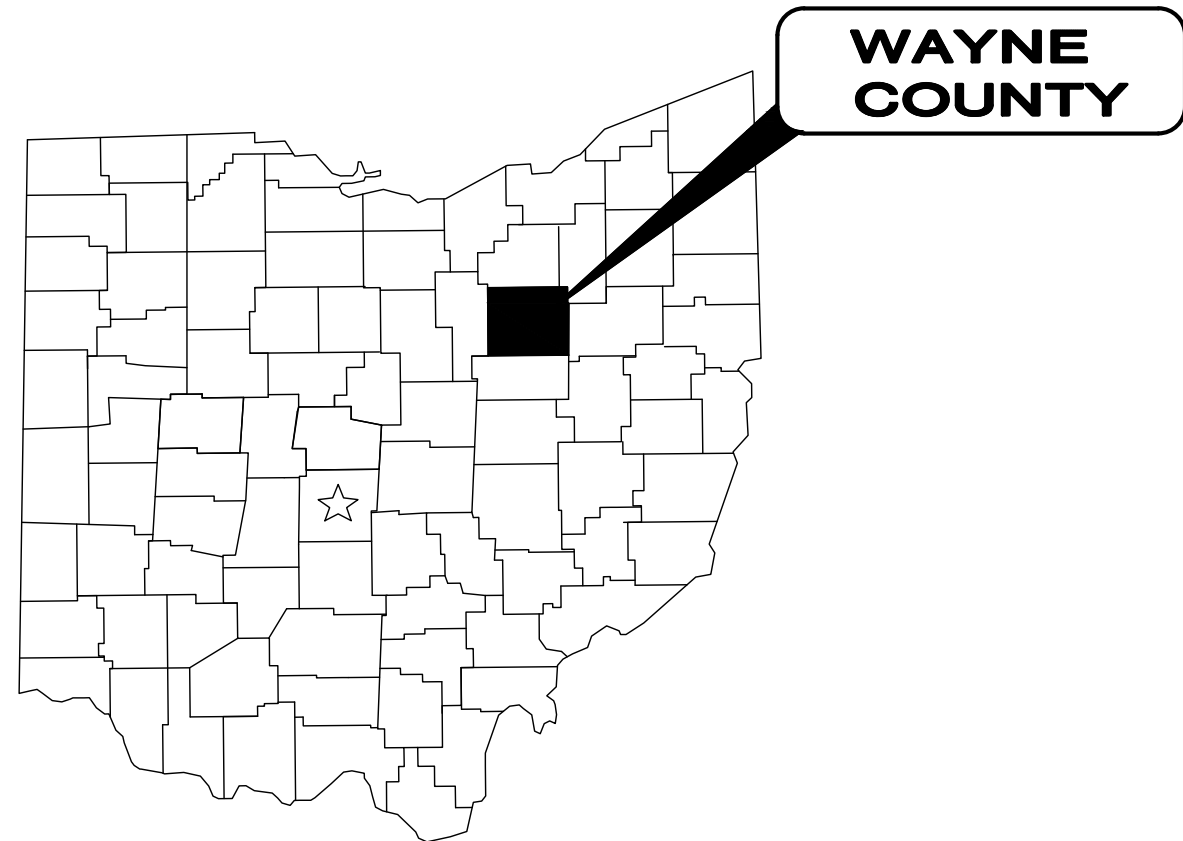
### REHABILITATION - PHASE 3

#### OPWC FUNDED PROJECT

#### WAYNE COUNTY, OHIO



verdantas



#### SMITHVILLE COUNCIL

TOM POULSON  
TRICIA MULLINS  
ADRIENNE KARLEN  
PATRICK FINN  
LARRY ALLEN  
SCOTT THORN  
.MATT HAAS  
JOSEPH REED  
NATE DUENKE

MAYOR  
PRESIDENT  
VETERANS MEMORIAL  
STREETS & SIDEWALKS  
FIRE DEPARTMENT  
EQUIPMENT  
PARKS/TREES  
FINANCE AND PERSONNEL  
EQUIPMENT

#### SMITHVILLE BOARD OF PUBLIC AFFAIRS

LYNN MOOMAW- PRESIDENT  
KYLE KROWNAPPLE  
RYAN IMHOFF

#### OUPS ONE CALL-UTILITY LIST:

NATURAL GAS DIST./TRANS.  
DOMINION EAST OHIO GAS  
320 SPRINGSIDE DR.  
AKRON, OHIO 44333  
330-664-2409  
ATTN: BRYAN D. DAYTON  
relocation@dom.com

AMERICAN ELECTRIC POWER  
825 TECH CENTER DR.  
GAHANNA, OHIO 43230  
614-552-1183  
ATTN: TONY PURSES  
ajpurses@aep.com

CLEAR PICTURE, INC.  
444 W. MILLTOWN RD.  
WOOSTER, OHIO 44691  
330-345-8114

SMITHVILLE WATER DEPARTMENT  
4363 EBY ROAD  
SMITHVILLE, OHIO 44677  
PHONE: 330-669-2633

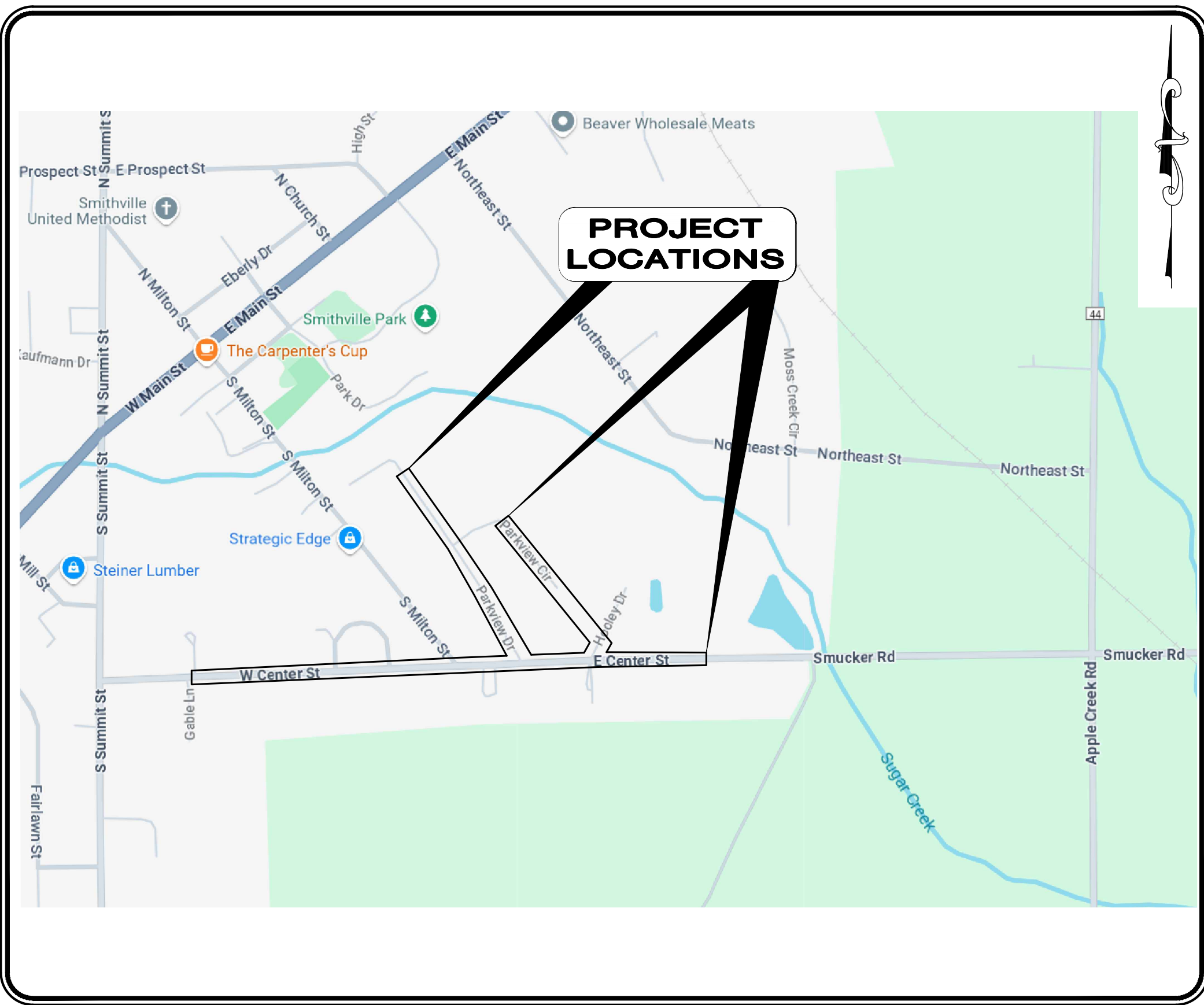
CENTURYLINK  
665 LEXINGTON AVENUE  
MANSFIELD, OHIO 44907  
800-786-6272



verdantas

ENGINEER'S  
PROJECT No. 32411

JUNE 2025



LOCATION MAP

NOT TO SCALE

#### OWNER:

VILLAGE OF SMITHVILLE  
VILLAGE HALL, 207 WEST MAIN STREET  
SMITHVILLE, OH 44677  
(330) 438-6569 PHONE  
(330) 489-3073 FAX

#### VILLAGE OF SMITHVILLE OFFICIALS

MAYOR  
FISCAL OFFICER  
VILLAGE ENGINEER

TOM POULSON  
PAMELA KEENER  
ALAN FRYGIER, P.E.

#### ENGINEER:

VERDANTAS  
3875 EMBASSY PARKWAY  
SUITE 200  
AKRON, OH 44333  
(330) 375-0800 PHONE  
(330) 665-0620 FAX

#### PROJECT LOCATION:

PROJECT LOCATION IS ON SECTIONS OF  
W. AND E. CENTER ST., HOOLEY DR., AND  
PARKVIEW CIRCLE. THE PROJECT WILL  
CONSIST OF 8" CURED-IN-PLACE LINING  
OF SANITARY SEWERS, POINT REPAIRS,  
WYE OR TEE REPAIRS, AND CONNECTION  
REINSTATEMENTS.

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.

Alan Frygier P.E.

ALAN E. FRYGIER, P.E.

P.E. No. 90367

6/11/2025

DATE

PROJECT NO.	
32411	
DISCIPLINE	
GENERAL	
SHEET NAME	
G-01	
SHEET	OF
1	12

1.0	GENERAL NOTES	4.0	EXISTING UTILITIES	8.0	MATERIAL STORAGE
1.01	THE WORK UNDER THIS CONTRACT SHALL CONSIST OF CURED-IN-PLACE (CIPP) LINING OF SANITARY SEWER, REHABILITATION AND SEALING OF INNER WALLS OF MANHOLES, REMOVAL OF EXTRUDING TAPS, AND CONNECTION REINSTATEMENTS AS NOTED AND DETAILS IN PLANS AND SPECIFICATIONS.	4.01	EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE SITE PRIOR TO BID SUBMISSION.	8.1	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.
	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.	4.02	THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, MAY NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.	8.02	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.
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 VILLAGE OF SMITHVILLE PRIOR TO THE COMMENCEMENT OF WORK.	4.03	THE LOCATIONS OF THE UNDERGROUND UTILITIES ARE PLOTTED ACCORDING TO THE INFORMATION FURNISHED BY THE UTILITIES CONCERNED AND THE VILLAGE DOES NOT GUARANTEE THE ACCURACY THEREOF. CONTRACTOR ALSO TO COORDINATE THEIR WORK WITH THE DOMINION EAST OHIO GAS COMPANY, AMERICAN ELECTRIC POWER, CENTURYLINK AND CLEAR PICTURE FOR GAS LINE AND/OR POLE RELOCATION.	9.0	MATERIAL TESTING
1.03	ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES EXCEPT THE TIME WHEN SEWER INSTALLATION AND PAVEMENT REPLACEMENT WILL NOT PERMIT.	4.04	WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THAT OF THE VILLAGE.	9.01	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.
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.	4.05	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.	10.0	INSPECTION
	MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS - REVISION 20.	4.06	BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE" AT 1-800-362-2764, FORTY- EIGHT (48) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE VILLAGE OF SMITHVILLE, 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 VILLAGE OF SMITHVILLE, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS. THE UTILITY OWNERSHIPS ARE LISTED ON THE COVER SHEET.	10.01	THE CONTRACTOR SHALL NOT COMMENCE WITH ANY FORM OF CONSTRUCTION WITHOUT CONTACTING THE VILLAGE OF SMITHVILLE SERVICE DEPARTMENT AND/OR THE VILLAGE OF SMITHVILLE STREET DEPARTMENT, 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 VILLAGE 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.
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.	4.07	WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.	11.0	PROHIBITED CONSTRUCTION ACTIVITIES
1.06	ALL OVER-THE-ROAD VEHICLES USED ON THE PROJECT BY ALL CONTRACTORS AND SUBCONTRACTORS WILL BE CLEARLY MARKED SHOWING ITS COMPANY AFFILIATION.	4.08	IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.	11.01	DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER;
1.07	ALL SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER FOR FINAL CHECKING AND APPROVAL. SHOP DRAWINGS MUST BE APPROVED PRIOR TO ORDERING ANY MATERIALS.	4.09	IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.	11.02	LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS;
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.		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.	11.03	INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS;
1.09	THE CONTRACTOR IS TO TAKE CARE DURING EXCAVATION, PIPE INSTALLATION AND BACKFILLING, IN AREAS IMMEDIATELY ADJACENT TO TREES, TO MINIMIZE THE DISTURBANCE OF ROOT SYSTEM AND TREE LIMBS. THE COST OF ANY EXTRA EFFORT SUCH AS HAND EXCAVATION IS TO BE INCLUDED IN THE UNIT PRICE BID FOR PIPE INSTALLATION.		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	11.04	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 RELEASE;
1.10	THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF SMITHVILLE POLICE AND FIRE DEPARTMENTS, WAYNE COUNTY ENGINEER, ODOT AND THE VILLAGE REPRESENTATIVES AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.		AMERICAN ELECTRIC POWER 825 TECH CENTER DR. GAHANNA, OHIO 43230 614-552-1183 ATTN: TONY PURSES ajpurses@aep.com	11.05	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;
1.11	THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE, OR DESTROY ANY MAILBOX, PAPERBOX, TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING ITEMS, ETC.. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AS THE CONTRACTORS EXPENSE. ANY ITEMS DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTORS EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.		SMITHVILLE WATER DEPARTMENT 4363 EBY ROAD SMITHVILLE, OHIO 44677 330-669-2633	11.06	PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM;
2.0	EXCAVATION, BACKFILL AND COMPACTION		CENTURY LINK 665 LESINGTON AVENUE MANSFIELD, OHIO 44907 800-786-6272	11.07	DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA;
2.01	ALL EXCAVATION WILL BE CONSIDERED UNCLASSIFIED, NO ADDITIONAL COMPENSATION WILL BE ALLOWED THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.	4.10	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.	11.08	DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS;
2.02	ALL BACKFILL WILL BE AS DESCRIBED IN THESE PLANS AND SPECIFICATIONS.	5.0	DRAINAGE, SOIL EROSION, SEDIMENT AND DUST CONTROL	11.09	OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT;
2.03	SLAG PRODUCTS OR CRUSHED CONCRETE WILL NOT BE PERMITTED FOR BEDDING, BACKFILL, OR TRAFFIC COMPACTED SURFACE.	5.01	ALL SWALES, OR DITCHES DISTURBED OR DESTROYED BY THE CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.	11.10	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;
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.	5.02	POSITIVE DRAINAGE OF ALL CONSTRUCTION AREAS SHALL BE MAINTAINED AT ALL TIMES.	11.11	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;
2.05	ANY COMPACTION TESTING REQUIRED AT THE SOLE DISCRETION OF THE CITY ENGINEER SHALL BE AT THE EXPENSE OF THE CONTRACTOR.	5.03	THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH ODOT ITEM 207 AND AS REQUIRED BY THE WAYNE COUNTY SOIL AND WATER CONSERVATION DISTRICT.	11.12	RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER;
2.06	THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL GROUNDWATER AND SURFACE WATER AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. ALL CONDUIT SHALL BE INSTALLED IN A DRY AND STABLE TRENCH.	5.04	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.	11.13	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
3.0	SANITARY SEWER	5.05	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 VILLAGE, TO MAINTAIN ALL PAVED AREAS AFFECTED BY THE CONSTRUCTION.	11.14	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 CLEAR ACCESS:
3.01	ALL PVC SANITARY SEWER PIPE SHALL CONFORM TO ASTM D-3034 SDR 26, AS SHOWN ON PLANS, WITH JOINTS CONFORMING TO ASTM D-3212. THE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D-2321.		PAYMENT FOR ALL SOIL EROSION, SEDIMENT AND DUST CONTROL MEASURES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER VARIOUS ITEMS.		- BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES;
3.02	SANITARY SEWER FLOW IS TO BE MAINTAINED AT ALL TIMES.	6.0	TREE PROTECTION		- BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR
3.03	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.	6.01	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.		- BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.
3.04	ALL SANITARY LINING SHALL BE DONE STRICTLY WITHIN MANUFACTURERS SPECIFICATIONS.	7.0	RESTORATION		
3.06	ROOF DRAINS, FOUNDATION DRAINS, AND ANY OTHER CLEAN WATER CONNECTION TO THE SANITARY SEWER SYSTEM IS PROHIBITED.	7.01	THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM THEIR 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.		
3.07	MINIMUM THICKNESS OF CIPP LINER SHALL BE 6MM FOR 8" SEWER.	7.02	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.		
3.08	THE CONTRACTOR SHALL REINSTATE ALL CONNECTIONS WHETHER SHOWN ON PLANS OR ENCOUNTERED IN THE FIELD.				

Sheet List Table

Sheet Number	Sheet Title	Sheet Description
1	COVER SHEET	G-01
2	GENERAL NOTES, INDEX & SYMBOLOGY	G-02
3	CONSTRUCTION DETAILS	G-03
4	W. CENTER ST. STA. 0+00 TO 3+00	G-04
5	W. CENTER ST. STA. 3+00 TO 9+00	G-05
6	W. CENTER ST. STA. 9+00 TO 14+50	G-06
7	E. CENTER ST. STA. 14+50 TO 20+00	G-07
8	E. CENTER ST. STA. 20+00 TO 25+50	G-08
9	E. CENTER ST. STA. 25+50 TO 28+21	G-09
10	PARKVIEW CIRC. STA. 0+00 TO 8+90.09	G-10
11	MAINTENANCE OF TRAFFIC DETAIL	G-11
12	MAINTENANCE OF TRAFFIC NOTES	G-12

LEGEND & SYMBOLOGY:

EXISTING LINEWORK AND SYMBOLS

SAN

EX. SANITARY SEWER

EX. PROPERTY LINE

EX. SANITARY MANHOLE

VILLAGE OF SMITHVILLE

2025 SANITARY SEWER REHABILITATION - PHASE 3

WAYNE COUNTY

SMITHVILLE, OHIO

GENERAL NOTES, INDEX & SYMBOLOGY

PROJECT NO.

32411

DISCIPLINE

GENERAL

SHEET NAME

G-02

SHEET

2

OF

12

STATE OF OHIO

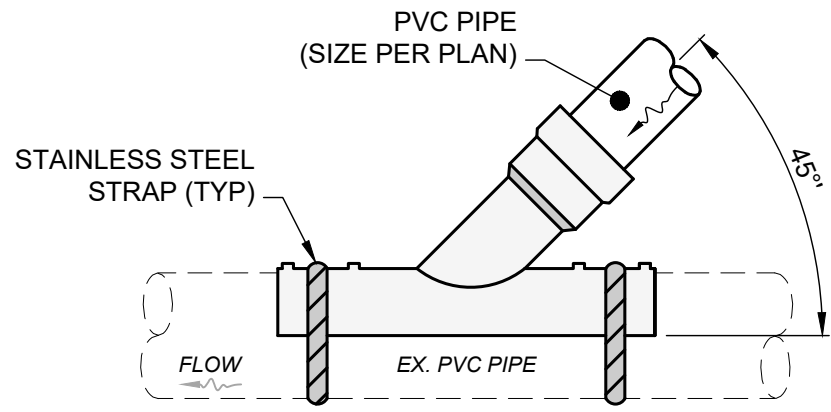
ALAN FRYGIER

PE90367

REGISTERED PROFESSIONAL ENGINEER

verdantas

Z:\PROJECT FILES\SA-TZ\SMITHVILLE\32411 - VILLAGE OF SMITHVILLE SANITARY SEWER REHAB\SHEETS AND PLANS\32411\_GENERAL NOTES\INDEX SYMBOLOGY.DWG - G-02 - 6/4/2025 2:44:46 PM - LAM.MATHEWS

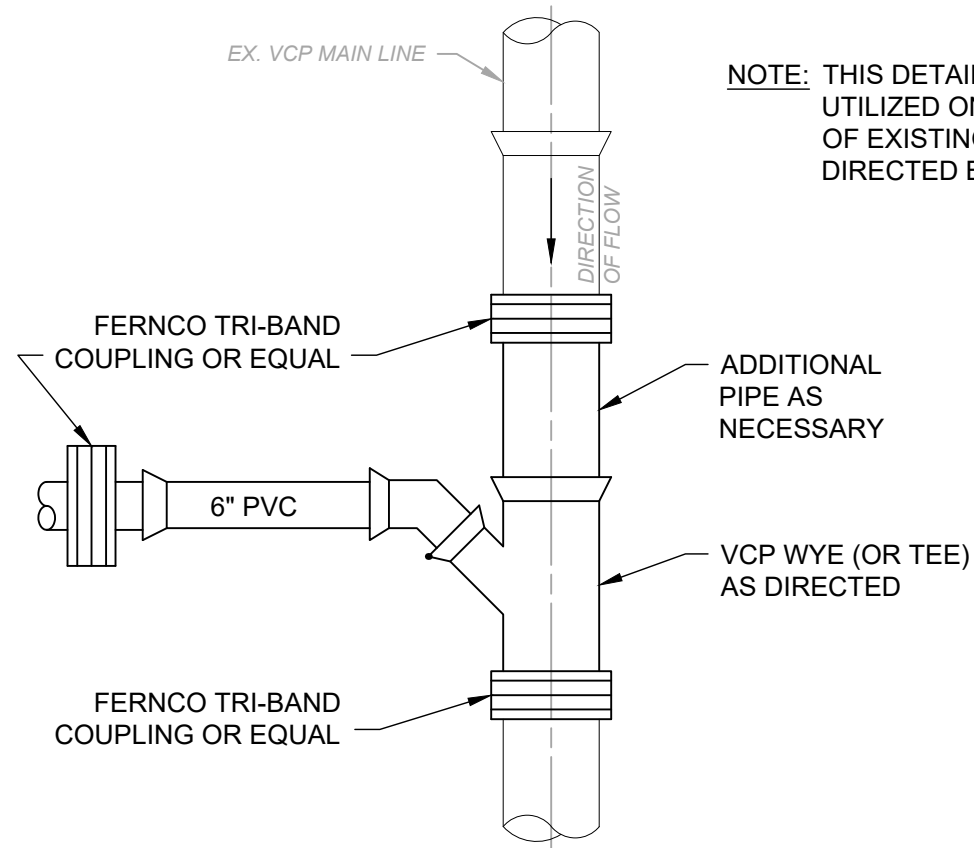


NOTES:

- SANITARY MAIN SHALL BE CORED PRIOR TO SETTING THE SADDLE IN PLACE.
- SADDLE WYE SHALL BE PLACED AT AN ANGLE OF 45° TO THE SEWER FLOW LINE.

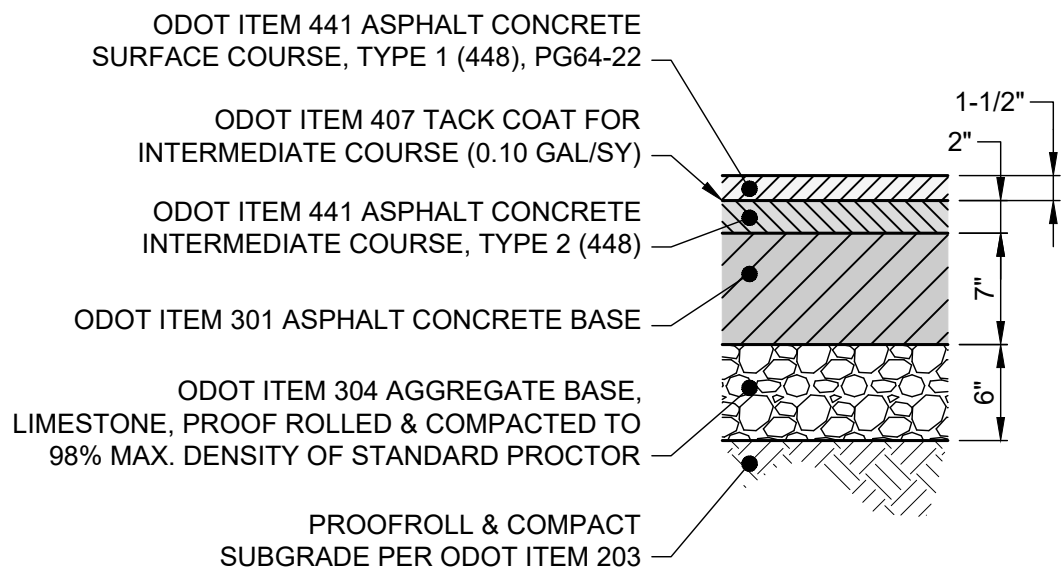
**SANITARY SADDLE DETAIL**

SCALE: NONE



**WYE REPLACEMENT DETAIL**

NOT TO SCALE



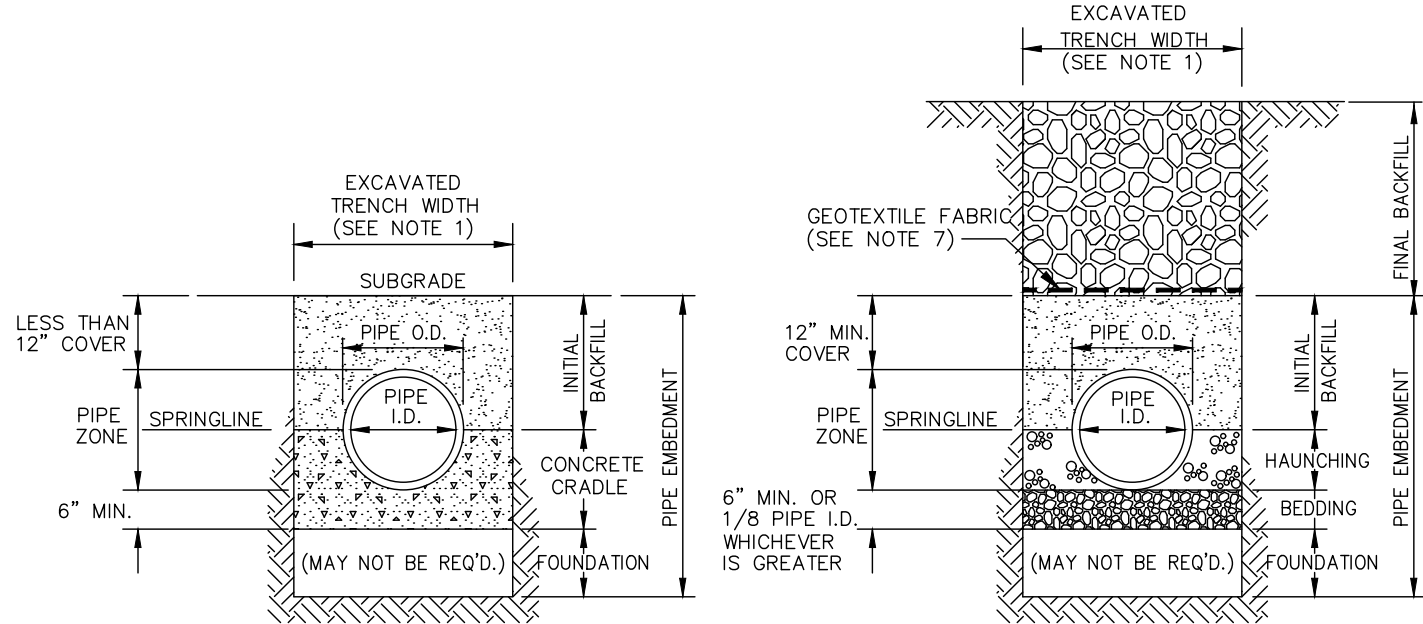
MINOR URBAN COLLECTOR ROADWAY  
ADT >1,500 & <3,500 (SN = 4.50)

NOTES:

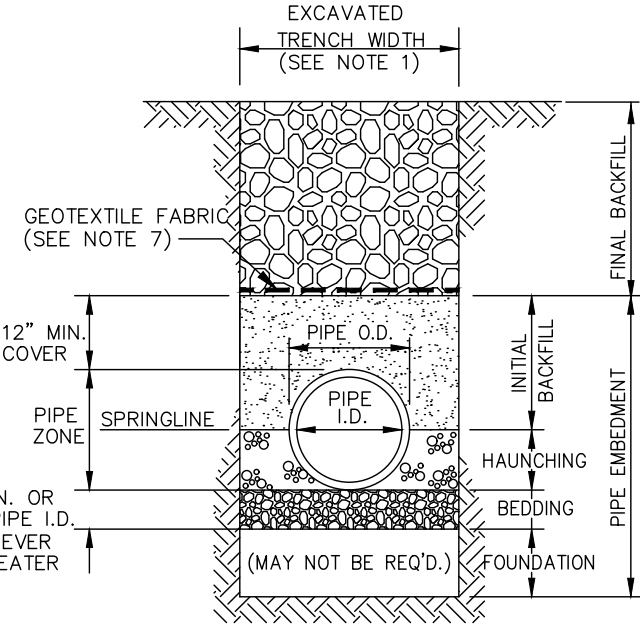
- IF UNSUITABLE SOILS EXISTS, SEE SUBGRADE REPAIR DETAIL.

**ASPHALT PAVEMENT REPLACEMENT DETAIL**

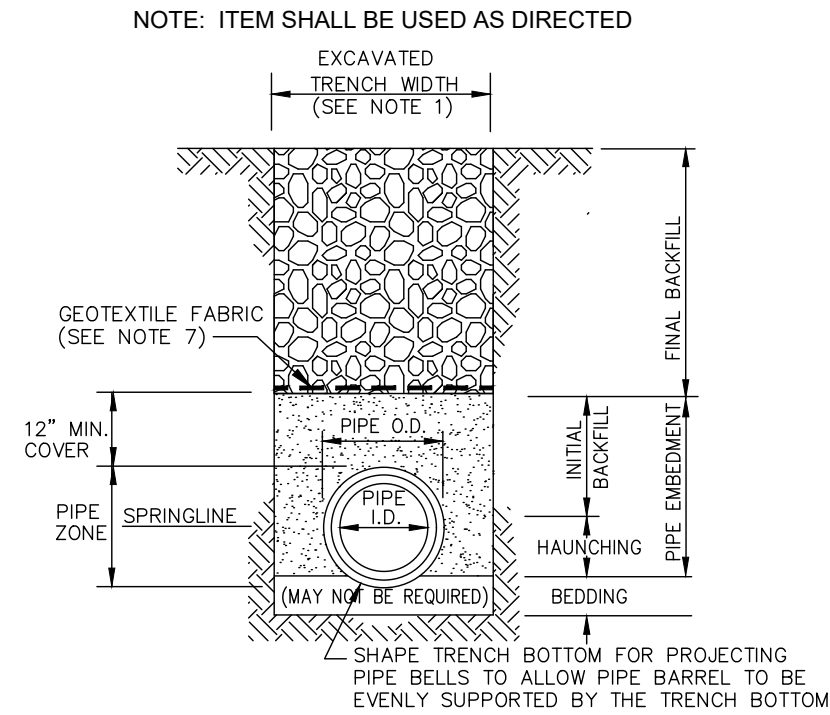
SCALE: NONE



**CLASS 'A' PIPE EMBEDMENT**



**CLASS 'B' PIPE EMBEDMENT**



**CLASS 'C' PIPE EMBEDMENT**

NOTES:

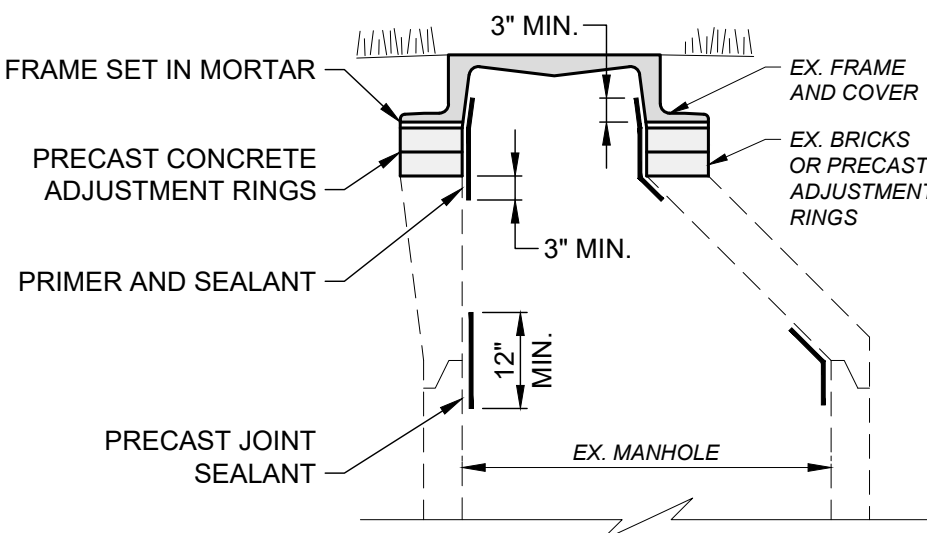
- MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND OVER.
- FOUNDATION: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.
- PIPE EMBEDMENT:  
CLASS A: CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.  
CLASS B: CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 STONE GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.  
CLASS C: CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE. WHERE ROCK OR SHALE IS ENCOUNTERED, A MINIMUM 6-INCHES OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE BEDDING OR SAND BEDDING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
- FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE SPECIAL BACKFILL MATERIAL. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.
- SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 310000.
- CLAY TRENCH DAMS: CLAY TRENCH DAMS SHALL BE REQUIRED AS SHOWN ON PLANS OR WHEN AND WHERE NECESSARY AS DIRECTED BY THE ENGINEER.
- GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A, AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
- DETECTOR TAPE: IF REQUIRED IN THE SPECIFICATIONS, INSTALL DETECTABLE WARNING TAPE ABOVE UTILITIES, 12" BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.

**TRENCHING, EMBEDMENT AND BACKFILL DETAIL**

6/04

NOT TO SCALE  
(FOR SEWER INSTALLATION)

SD-1-1

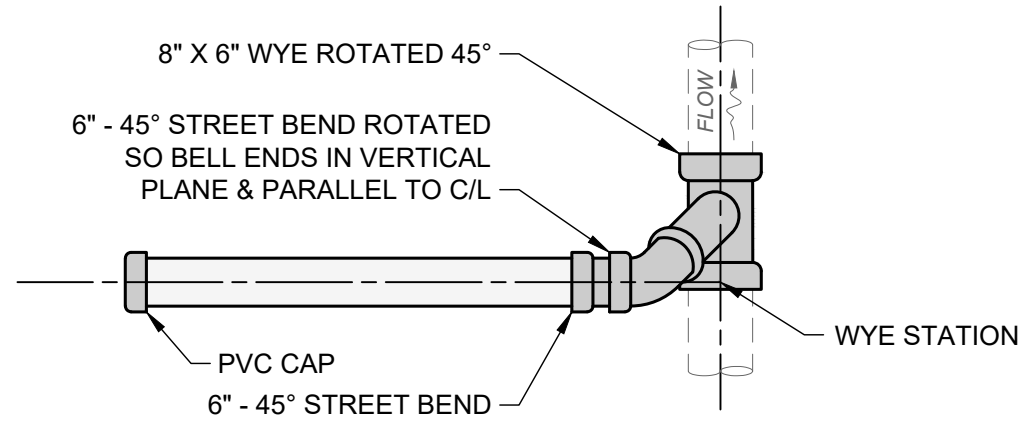


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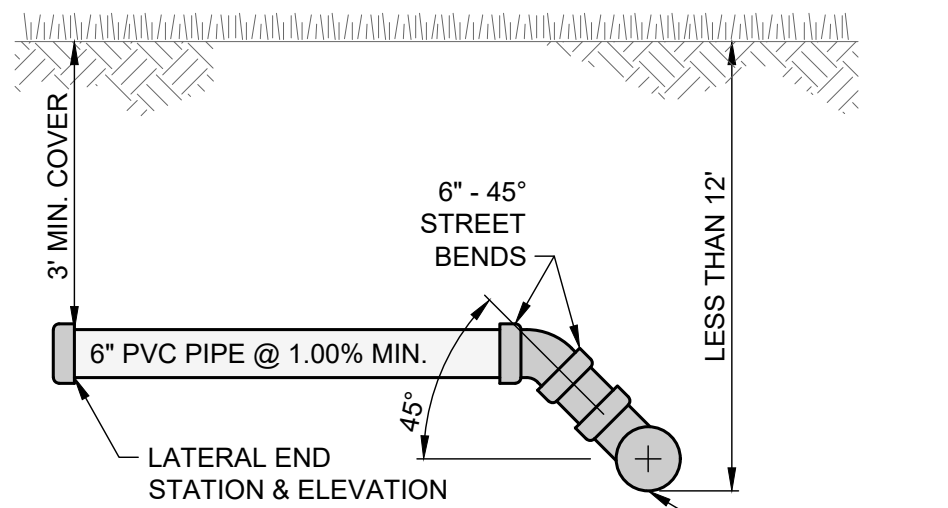
- REMOVE FRAME AND CASTING.
- CLEAN SURFACES OF FRAME, CASTING AND PRECAST MANHOLE. REMOVE RUST, DEBRIS AND LOOSE MORTAR.
- CLEAN SURFACES OF ADJUSTMENT RINGS OR BRICKS. REMOVE LOOSE BRICK AND MORTAR. IF EXCESSIVE BRICK DAMAGE, REPLACE WITH NEW ADJUSTMENT RINGS.
- STOP ALL ACTIVE INTERNAL LEAKS WITH WATER PLUG.
- FILL ALL VOIDS WITH CEMENTITIOUS GROUT. IF SURFACE IS ROUGH, IRREGULAR OR CONTAINS EXCESSIVE VOIDS THAT PREVENTS AN EFFECTIVE SEAL, APPLY PATCHING MIX TO PROVIDE A SMOOTH UNIFORM SURFACE. DRY INTERIOR SURFACES PER MANUFACTURER'S RECOMMENDATION.
- APPLY PRIMER AND SEALANT (I.E. FLEX-SEAL) TO MANHOLE ADJUSTMENT RINGS. THICKNESSES SHALL BE PER MANUFACTURER'S RECOMMENDATION. APPLY TO ENTIRE SURFACE OF ADJUSTMENT RINGS, AS WELL AS MANHOLE STRUCTURE AND CASTING AT LEAST 3" ABOVE AND BELOW ADJUSTMENT RINGS. ALLOW PRIMER TO CURE PRIOR TO APPLYING SEALANT.

**ADJUST SANITARY MANHOLE CASTING & REHABILITATE ADJUSTMENT RING DETAIL**

SCALE: NONE



**LATERAL - PLAN VIEW**



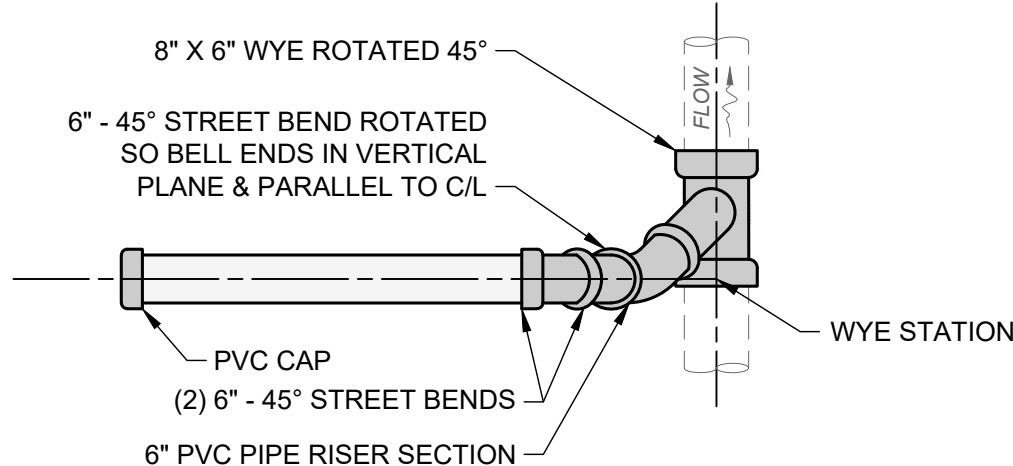
**LATERAL - PROFILE VIEW**

NOTES:

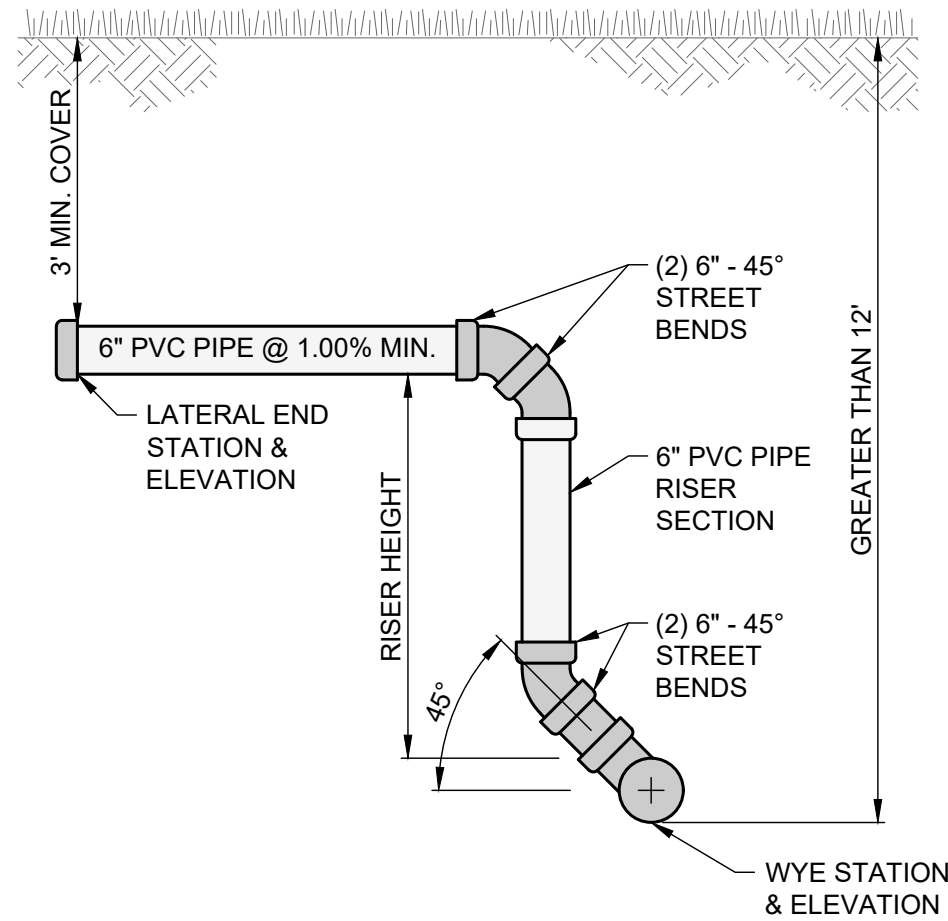
- THIS DETAIL SHOWS 6" LATERAL PIPE FOR REFERENCE ONLY. SEE PLANS FOR ACTUAL PIPE SIZES, MATERIALS, SLOPES AND ELEVATIONS.

**SANITARY LATERAL CONNECTION (<12') DETAIL**

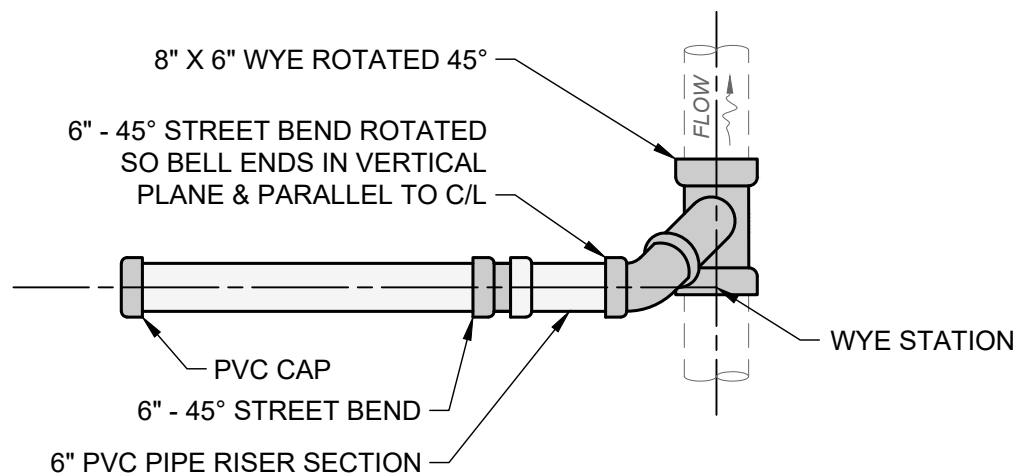
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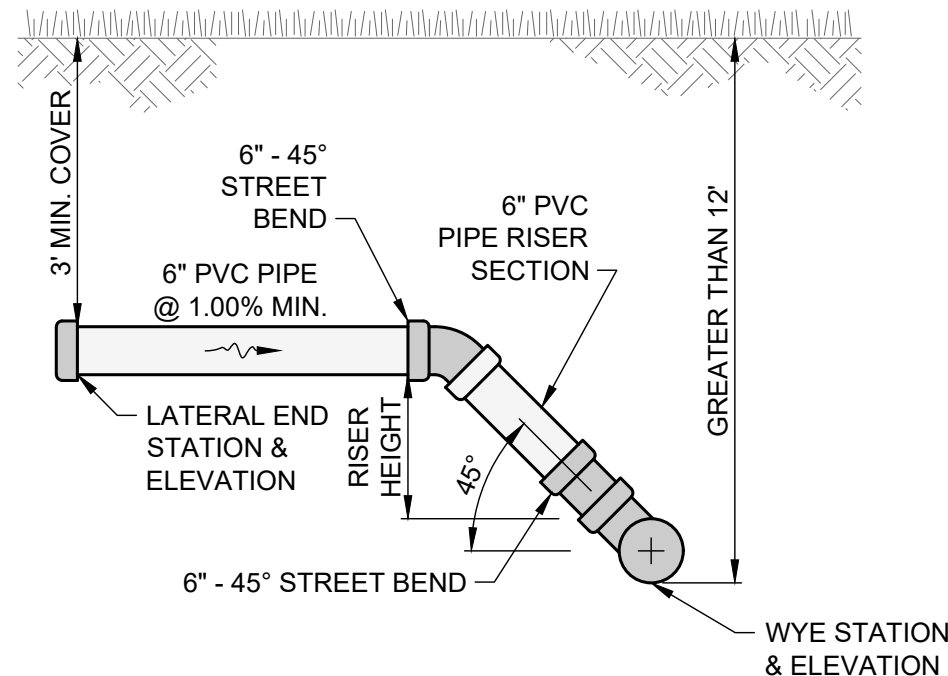
**LATERAL W/ DEEP RISER - PLAN VIEW**



**LATERAL W/ DEEP RISER - PROFILE VIEW**



**LATERAL W/ SHALLOW RISER - PLAN VIEW**



**LATERAL W/ SHALLOW RISER - PROFILE VIEW**

NOTES:

- THIS DETAIL SHOWS 6" LATERAL PIPE FOR REFERENCE ONLY. SEE PLANS FOR ACTUAL PIPE SIZES, MATERIALS, SLOPES, ELEVATIONS AND RISER HEIGHT.

**SANITARY LATERAL CONNECTION (>12') DETAIL**

SCALE: NONE



**verdantas**

ISSUED FOR:	BID SET	DATE	NO	REVISION	DATE
2025 SANITARY SEWER REHABILITATION - PHASE 3	6/11/2025				
SCALE:	AS SHOWN				
DESIGNED BY:	LMM				
DRAWN BY:	LMM				
CHECKED BY:	AEF				

VILLAGE OF SMITHVILLE

2025 SANITARY SEWER  
REHABILITATION - PHASE 3

WAYNE COUNTY

SMITHVILLE, OHIO

CONSTRUCTION DETAILS

PROJECT NO.	32411
DISCIPLINE	GENERAL
SHEET NAME	G-03
SHEET	3
OF	12



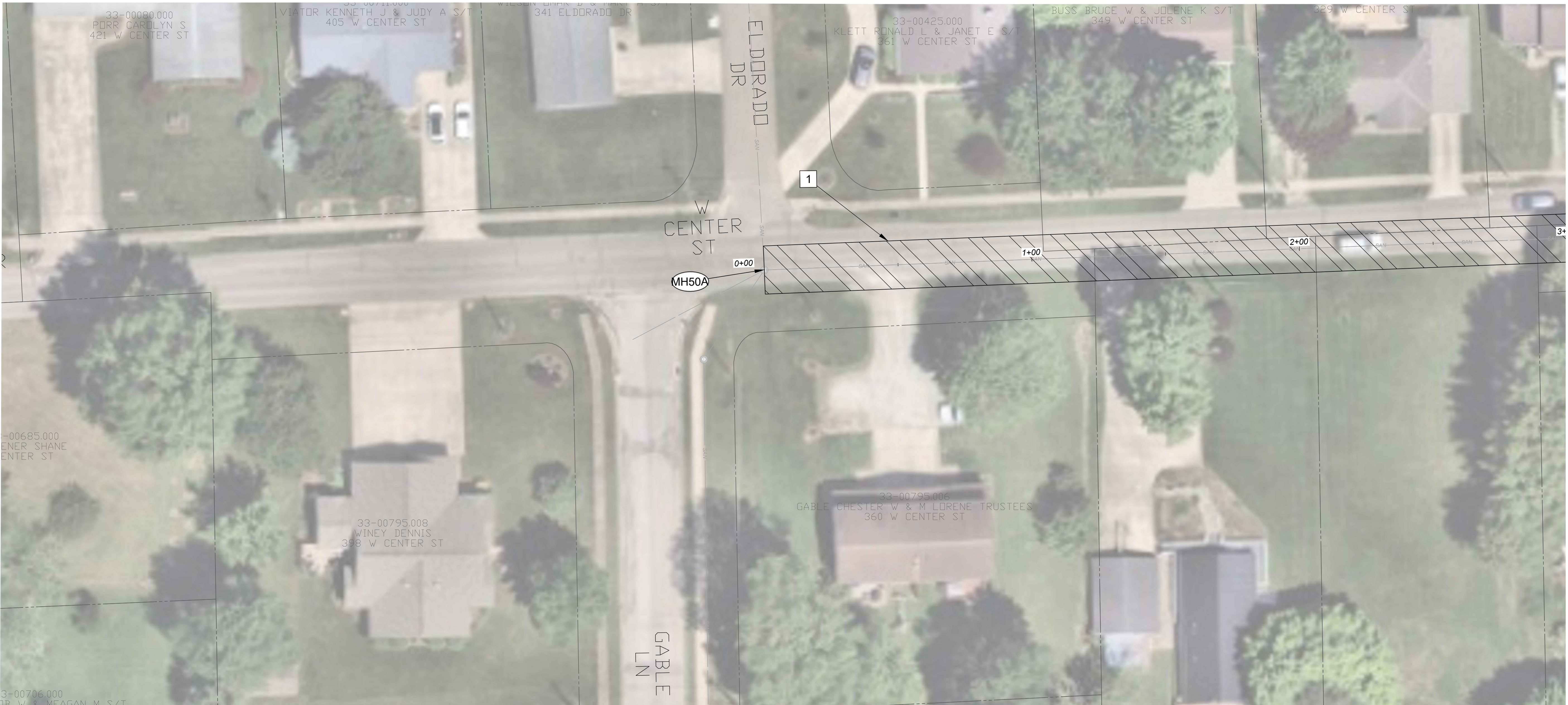
ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	6/11/2025			
SCALE:	AS SHOWN			
DESIGNED BY:	LMM			
DRAWN BY:	LMM			
CHECKED BY:	AEF			

# VILLAGE OF SMITHVILLE

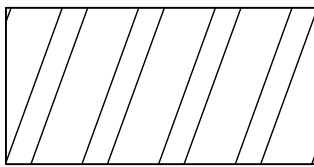
## 2025 SANITARY SEWER REHABILITATION - PHASE 3

NE COUNTY SMITHVILLE,  
W. CENTER ST. STA. 0+00 TO 3+00

PROJECT NO.	
32411	
DISCIPLINE	
CIVIL	
SHEET NAME	
G-04	
SHEET	OF
4	12



**LEGEND:**

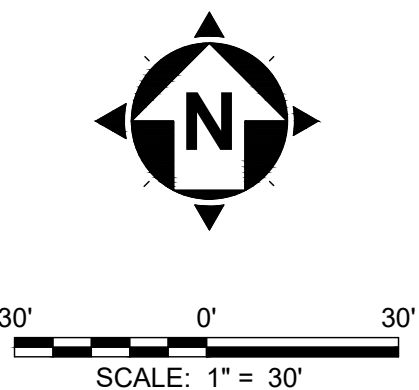


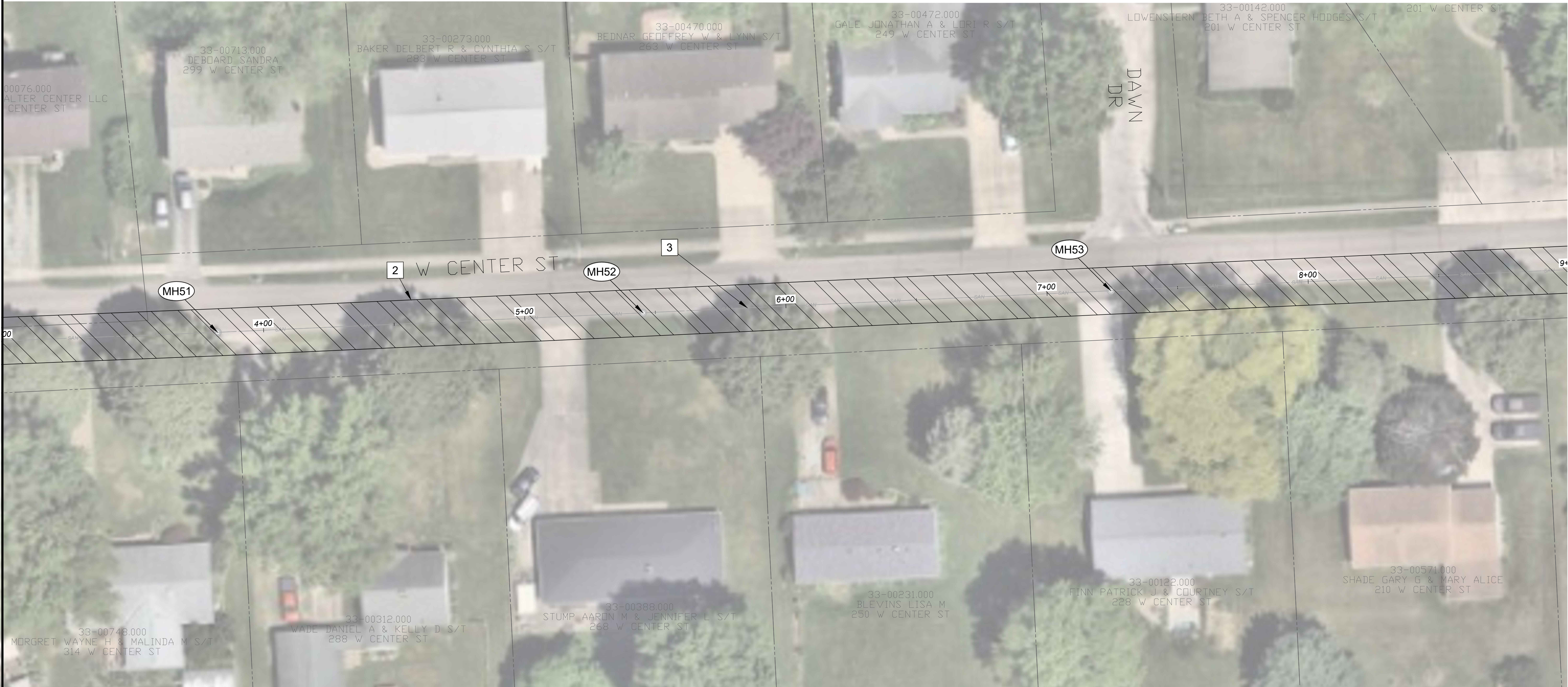
8" CIPP LINING

**CODED NOTES:**

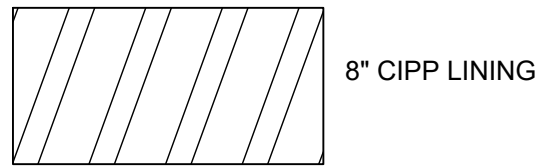
1 300 FT OF 8" CIPP LINING

**PLAN VIEW**  
**STA 0+00 TO STA 3+00**





LEGEND:



CODED NOTES:

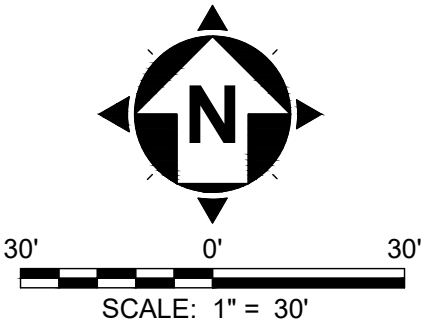
- 2 600 FT OF 8" CIPP LINING
- 3 PROTRUDING TAP, POINT REPAIR TO BE DONE

PLAN VIEW  
STA 3+00 TO STA 9+00



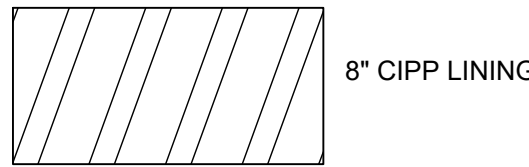
ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	6/11/2025			
SCALE:	AS SHOWN			
DESIGNED BY:	LMM			
DRAWN BY:	LMM			
CHECKED BY:	AFF			

VILLAGE OF SMITHVILLE	PROJECT NO.
2025 SANITARY SEWER	32411
REHABILITATION - PHASE 3	DISCIPLINE
WAYNE COUNTY	CIVIL
SMITHVILLE, OHIO	SHEET NAME
W. CENTER ST. STA. 3+00 TO 9+00	G-05
	SHEET
	OF
	5
	12





**LEGEND:**



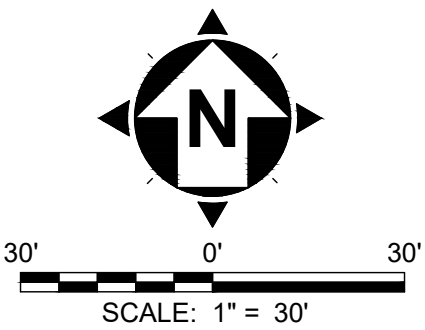
**MANHOLE REHABILITATION:**

- 4 MANHOLE #54A BURIED, TO BE ADJUSTED TO GRADE

**CODED NOTES:**

- 5 550 FT OF 8" CIPP LINING

**PLAN VIEW**  
**STA 9+00 TO STA 14+50**

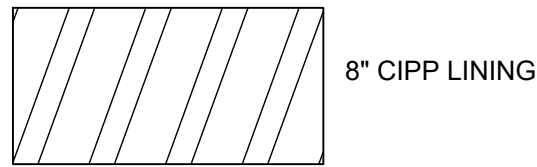


ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	6/11/2025			
SCALE:	AS SHOWN			
DESIGNED BY:	LMM			
DRAWN BY:	LMM			
CHECKED BY:	AEF			

VILLAGE OF SMITHVILLE	PROJECT NO.
2025 SANITARY SEWER	32411
REHABILITATION - PHASE 3	DISCIPLINE
WAYNE COUNTY	CIVIL
SMITHVILLE, OHIO	SHEET NAME
W. CENTER ST. STA. 9+00 TO 14+50	G-06
	SHEET
	OF
	6
	12



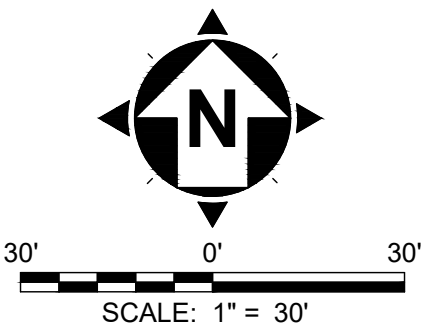
LEGEND:



CODED NOTES:

6 550 FT OF 8" CIPP LINING

PLAN VIEW  
STA 14+50 TO STA 20+00



STATE OF OHIO

ALAN FRYGIER

PE90367

REGISTERED PROFESSIONAL ENGINEER

verdantas

ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	6/11/2025			
SCALE:	AS SHOWN			
DESIGNED BY:	LMM			
DRAWN BY:	LMM			
CHECKED BY:	AEF			

VILLAGE OF SMITHVILLE

2025 SANITARY SEWER REHABILITATION - PHASE 3

WAYNE COUNTY

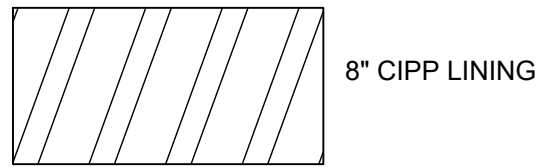
SMITHVILLE, OHIO

E. CENTER ST. STA. 14+50 TO 20+00

PROJECT NO.	
32411	
DISCIPLINE	
CIVIL	
SHEET NAME	
G-07	
SHEET	OF
7	12



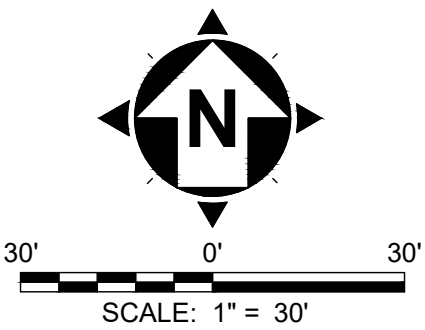
LEGEND:



CODED NOTES:

7 550 FT OF 8" CIPP LINING

PLAN VIEW  
STA 20+00 TO STA 25+50

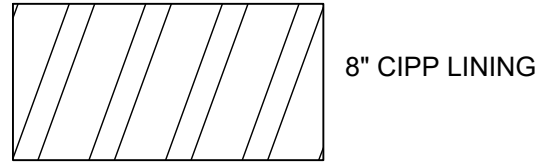


ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	6/11/2025			
SCALE:	AS SHOWN			
DESIGNED BY:	LMM			
DRAWN BY:	LMM			
CHECKED BY:	AEF			

VILLAGE OF SMITHVILLE 2025 SANITARY SEWER REHABILITATION - PHASE 3 WAYNE COUNTY SMITHVILLE, OHIO	PROJECT NO.
	32411
	DISCIPLINE
	CIVIL
E. CENTER ST. STA. 20+00 TO 25+50	SHEET NAME
	G-08
SHEET 8 OF 12	



LEGEND:



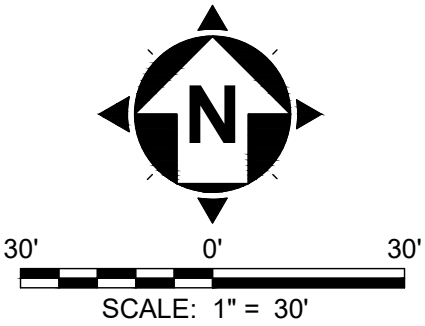
MANHOLE REHABILITATION:

- 9 MANHOLE #57A BURIED, TO BE ADJUSTED TO GRADE

CODED NOTES:

- 8 271 FT OF 8 inch CIPP LINING

PLAN VIEW  
STA 25+50 TO STA 28+21

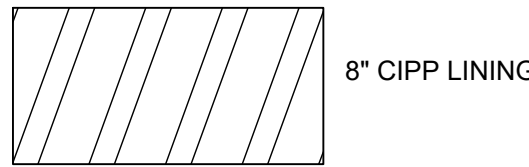


ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	6/11/2025			
SCALE:	AS SHOWN			
DESIGNED BY:	LMM			
DRAWN BY:	LMM			
CHECKED BY:	AEF			

VILLAGE OF SMITHVILLE	PROJECT NO.
2025 SANITARY SEWER	32411
REHABILITATION - PHASE 3	DISCIPLINE
WAYNE COUNTY	CIVIL
SMITHVILLE, OHIO	SHEET NAME
E. CENTER ST. STA. 25+50 TO 28+21	G-09
	SHEET
	OF
	912



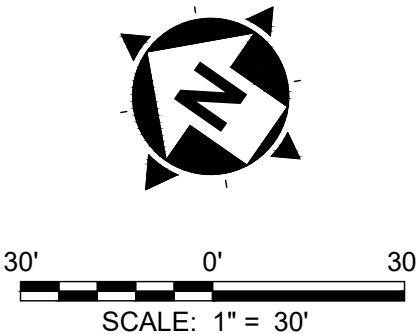
LEGEND:



CODED NOTES:

- 10 787 FT OF 8" CIPP LINING  
11 POINT REPAIR

PLAN VIEW  
STA 0+00 TO STA 8+90.09



ISSUED FOR:	BID SET:	NO:	REVISION:	DATE:
ISSUE DATE:	6/11/2025			
SCALE:	AS SHOWN			
DESIGNED BY:	LMM			
DRAWN BY:	LMM			
CHECKED BY:	AEF			

VILLAGE OF SMITHVILLE  
2025 SANITARY SEWER  
REHABILITATION - PHASE 3  
WAYNE COUNTY  
SMITHVILLE, OHIO

PARKVIEW CIRC. STA. 0+00 TO 8+90.09

PROJECT NO. 32411	
DISCIPLINE CIVIL	
SHEET NAME G-10	
SHEET 10	OF 12





NO	REVISION	DATE

VILLAGE OF SMITHVILLE  
2025 SANITARY SEWER  
REHABILITATION - PHASE 3  
WAYNE COUNTY  
SMITHVILLE, OHIO

MAINTENANCE OF TRAFFIC DETAIL

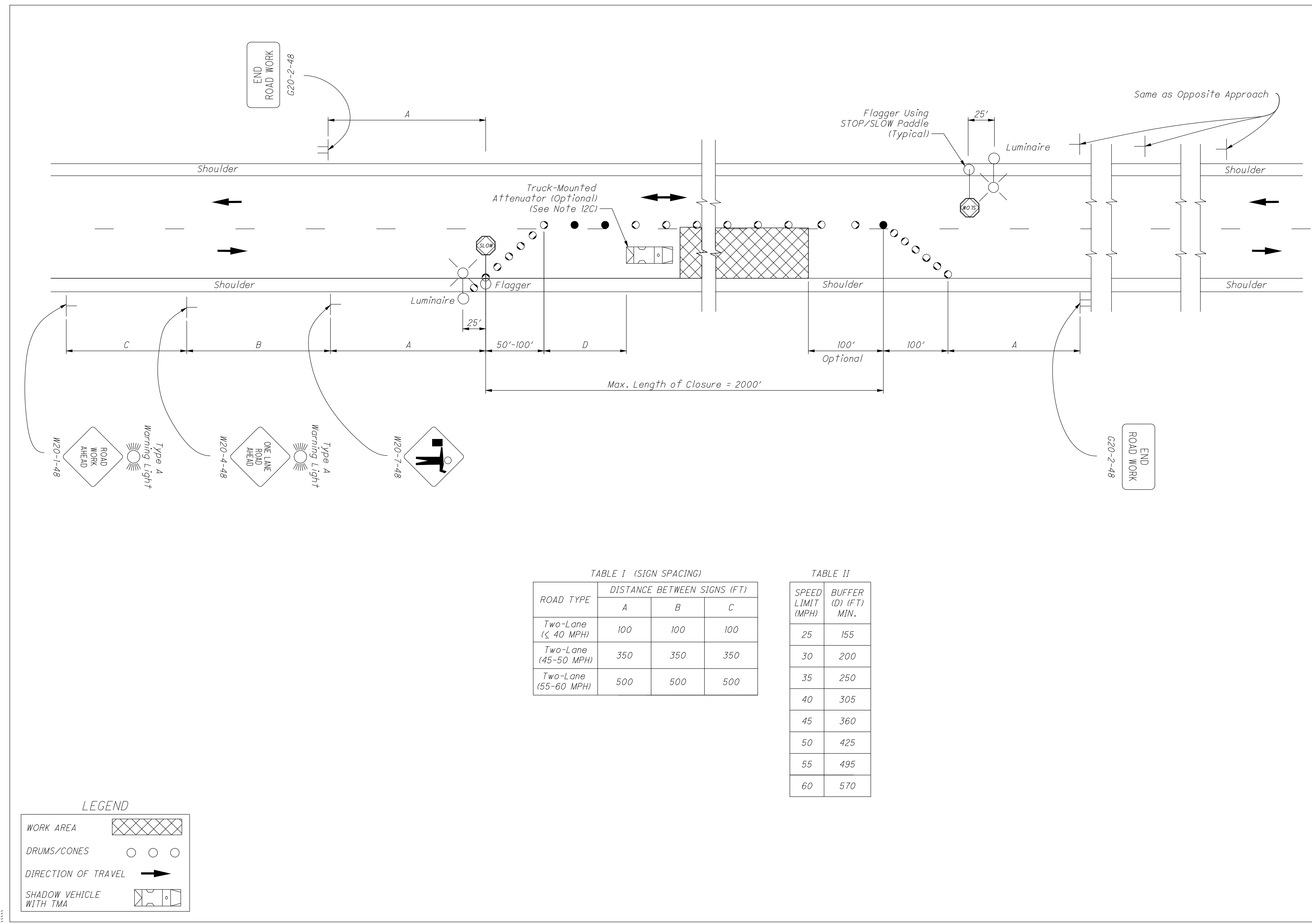
PROJECT NO. 32411	
DISCIPLINE GENERAL	
SHEET NAME G-11	
SHEET 11	OF 12

SCD NUMBER MT-97.10	OFFICE OF ROADWAY ENGINEERING	STDS. ENGINEER Soisson	STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR David L. Holstein	REVISION DATE 04-19-2019
------------------------	-------------------------------------	------------------------------	--	-----------------------------

THIS DRAWING REPLACES MT-97.10 DATED 07-18-2014.

STANDARD ROADWAY CONSTRUCTION DRAWING

FLAGGER CLOSING 1 LANE OF A 2-LANE  
HIGHWAY - STATIONARY OPERATION



LEGEND

WORK AREA

DRUMS/CONES

DIRECTION OF TRAVEL

SHADOW VEHICLE WITH TMA

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
Two-Lane (< 40 MPH)	100	100	100
Two-Lane (45-50 MPH)	350	350	350
Two-Lane (55-60 MPH)	500	500	500

SPEED LIMIT (MPH)	BUFFER (D) (FT) MIN.
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570

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 (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.

CHIP SEAL OPERATIONS

13. For chip seal operations, additional signing shall be incorporated in the advanced warning area.
- a) The LOOSE GRAVEL (W8-7) and FRESH TAR (W21-2) signs shall both be used in advance of the chip seal operation.
- b) Repeat the LOOSE GRAVEL sign with a 35 mph Advisory Speed (W13-1) plaque every half mile per CMS 422.09.
- c) The FRESH TAR and the LOOSE GRAVEL signs shall both be used for signing of side roads intersecting the work area.



ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	6/11/2025			
SCALE:	AS SHOWN			
DESIGNED BY:	LMM			
DRAWN BY:	LMM			
CHECKED BY:	AEF			

VILLAGE OF SMITHVILLE	WAYNE COUNTY	SMITHVILLE, OHIO
2025 SANITARY SEWER REHABILITATION - PHASE 3		
MAINTENANCE OF TRAFFIC NOTES		

PROJECT NO.	32411
DISCIPLINE	GENERAL
SHEET NAME	G-12
SHEET	12
OF	12