

VILLAGE OF HARTVILLE HOWARD COURT S.E. SANITARY SEWER REPLACEMENT LINCOLN ST. S.E. TO MILL ST. S.E. STARK COUNTY, OHIO

JANUARY 2025

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OUPS DESIGN SERIAL NUMBERS:

B-106-101-036 — HOWARD CT S.E.

OUPS ONE CALL-UTILITY LIST:

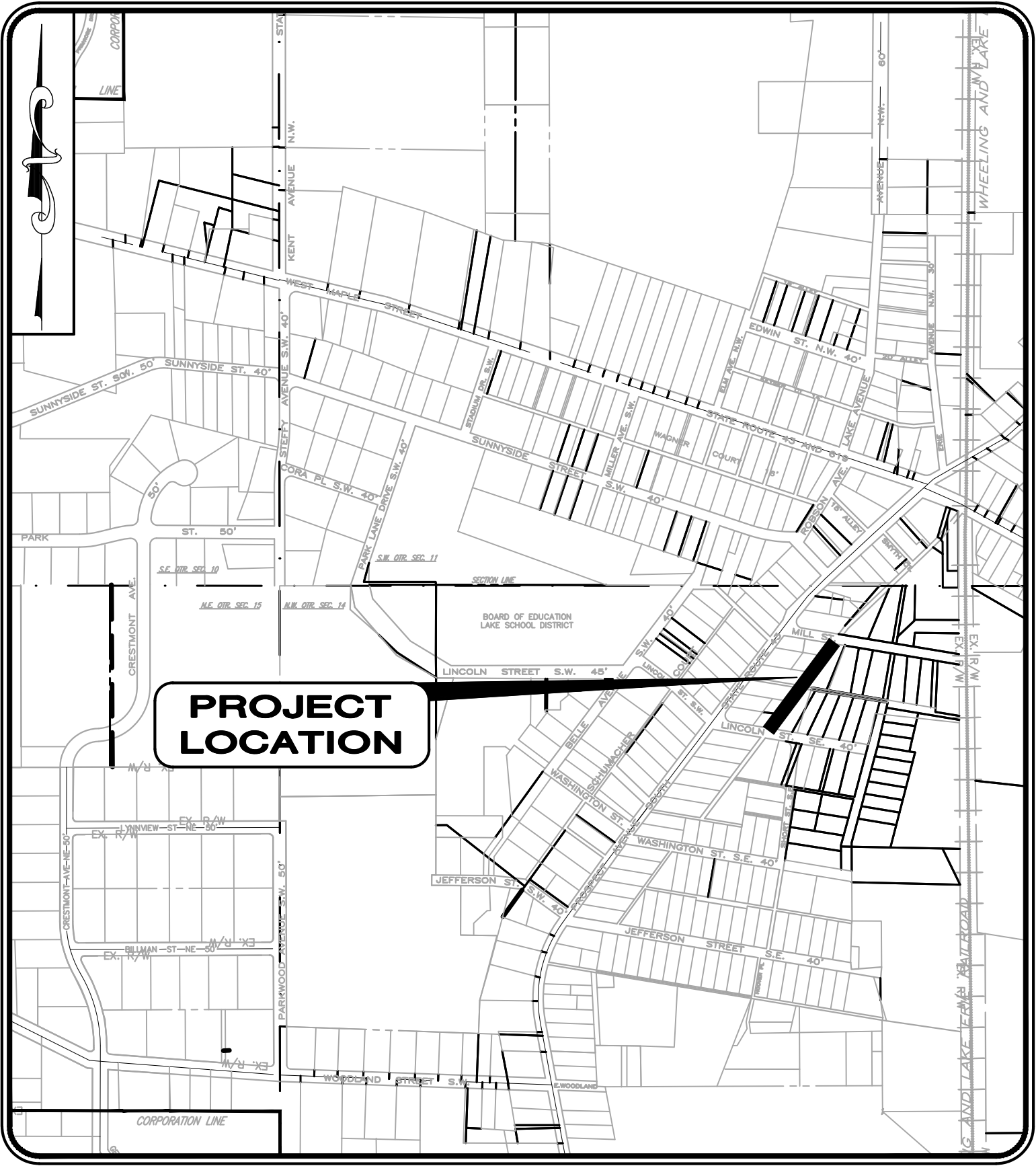
CANTON WATER DEPARTMENT
2664 HARRISBURG RD. N.E.
CANTON, OHIO 44705-7904
ATTN: ENGINEERING OFFICE
PHONE: (330) 489-3310
ATTN: LEWIS MILLER
lewis.miller@cantonohio.com

FIRST ENERGY
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AKRON, OHIO 44313
ATTN: MICHAEL JANSON
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jansonm@firstenergycorp.com

DOMINION EAST OHIO
(DISTRIBUTION)
320 SPRINGSIDE DRIVE, SUITE 320
ATTN: DERRICK T. GRAFTON
PHONE: (330) 664-2409
Derrick.T.Grafton@dominionenergy.com

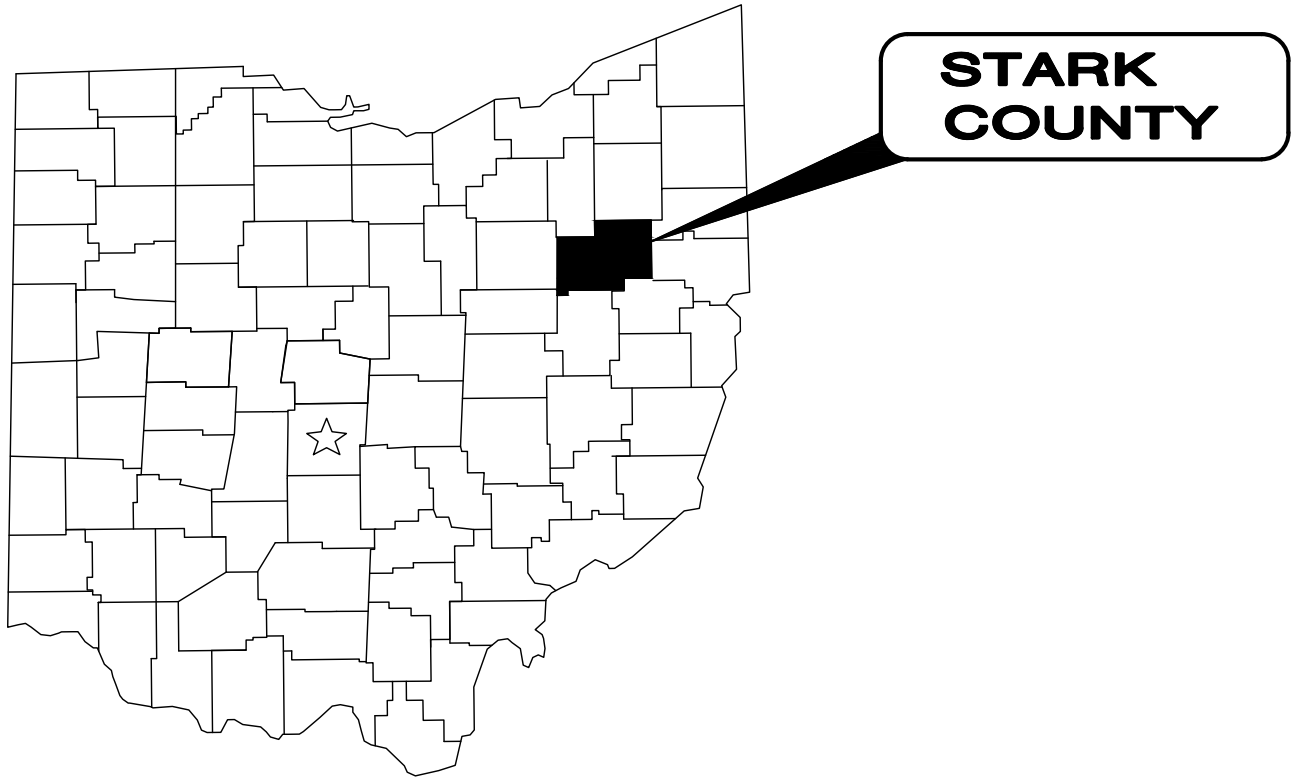
SPECTRUM
5520 WHIPPLE AVENUE N.W.
NORTH CANTON, OHIO 44720
ATTN: RON FERDINAND
PHONE: (330) 492-4449
ronald.ferdinand@charter.com

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50 W. BOWERY
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ATTN: CINDY ZUCHEGNO
PHONE: (330) 384-3561
cc1541@att.com



LOCATION MAP

NOT TO SCALE



VILLAGE OF HARTVILLE OFFICIALS:

CINDY BILLINGS

ERIC WILLIAMS

SCOTT VARNEY

COUNCIL MEMBERS:

STEVE REISCH

KELLY REIS

JIM SULLIVAN

TOM HOUGH

TIM HAYDEN

FRANK GRANT

BOARD OF PUBLIC AFFAIRS:

FOREST MILLER

NORM ANDERSON

SHARI CHAMBERS



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.

ENGINEER'S PROJECT No. 23010502

ENGINEERS SEAL:



SIGNED:

DATE: 1-23-25

GENERAL NOTES:

1.

MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER VALVE BOXES AND OTHER STREET CASTING WILL BE RAISED OR LOWERED FLUSH WITH THE NEW SURFACE. ANY METER OR VALVE BOX ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS OF WORK EXCEPT WHEN BID AS A SEPARATE ITEM.
2.

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS, OR ANY TYPE OF LAND MONUMENT. HE SHALL HAVE ALL MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. HE SHALL REPLACE DESTROYED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.
3.

BEFORE THE VILLAGE WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR SHALL FURNISH THE VILLAGE 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.
4.

THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY MAILBOX, PAPERBOX, TELEPHONE OR POWER POLES, SIGNS, SHRUBS, LANDSCAPING ITEMS, UNDERGROUND UTILITIES, ETC. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.
5.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY WHEN ORDERED BY THE OWNER WATER OR CALCIUM CHLORIDE FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL. THE COST OF DUST CONTROL SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
6.

ALL PAVEMENT REMOVAL AND REPLACEMENT, NEW PAVEMENT AND ASSOCIATED ROADWAY WORK SHALL BE IN ACCORDANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, HEREINAFTER REFERRED TO AS "ODOT", CONSTRUCTION AND MATERIAL SPECIFICATIONS, STANDARD CONSTRUCTION DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS, LATEST ISSUE, WITH THE MODIFICATIONS AS SET FORTH IN THESE SPECIFICATIONS.
7.

THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF HARTVILLE POLICE AND FIRE DEPARTMENTS AT LEAST 24 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.
8.

BENCH MARKS WHICH ARE GIVEN HEREIN ARE BASED ON USGS
9.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT PERSUANT TO ODOT ITEM 623. A "LUMP SUM" QUANTITY HAS BEEN ESTABLISHED IN THE BID PROPOSAL.
10.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE INSTALLING ANY PROPOSED MANHOLES, CATCH BASINS OR CONDUIT. ANY ADJUSTMENTS NEEDED SHALL BE APPROVED BY THE ENGINEER.
11.

EXISTING SEWER AND WATER SERVICE CONNECTIONS SHALL BE PROTECTED AND MAINTAINED IN SERVICE. ANY EXISTING WATER, SANITARY SEWER, AND GAS LINE, IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER FORTY- EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF PAVEMENT. WORK WILL NOT BEGIN UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE ENGINEER.
13.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE VILLAGE.
14.

ALL EXISTING SEWERS INSPECTED SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION PRIOR TO CONSTRUCTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
15.

COST OF CLEARING AND GRUBBING, TREE REMOVAL, REMOVAL OF EXISTING PAVEMENT, SIDEWALK, CURB, MANHOLES, CATCH BASINS, FIRE HYDRANTS OR OTHER STRUCTURES ARE TO BE INCLUDED IN THE UNIT PRICE BID FOR ALL ITEMS IN THE PROPOSAL UNLESS LISTED AS A SEPARATE PAY ITEM.
16.

ALL SOIL AREAS DISTURBED SHALL BE TOPSOILED (4" THICK COMPACTED), SEEDED AND MULCHED. ALL TOPSOIL WORK SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
17.

THE JANUARY 1, 2023 CONSTRUCTION AND MATERIAL SPECIFICATIONS, AS PUBLISHED BY THE OHIO DEPARTMENT OF TRANSPORTATION, SHALL GOVERN ALL ASPECTS OF THE CONTRACT WORK, ALONG WITH THE TECHNICAL SPECIFICATIONS LOCATED IN THE BID DOCUMENTS OF THIS CONTRACT. THE CONTRACTOR SHOULD BE FAMILIAR WITH BOTH FORMS OF THESE SPECIFICATIONS AND THEIR PROCEDURAL REQUIREMENTS.

EXISTING UTILITIES:

1.

EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE PRIOR TO BID SUBMISSION.
2.

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THEIR ACCURACY OR COMPLETENESS IS NOT GUARANTEED.
3.

THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.
4.

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 HARTVILLE, 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 HARTVILLE, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.
5.

THE UTILITIES WITHIN THE LIMITS OF THIS PROJECT ARE LISTED ON THE TITLE SHEET.
6.

WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE THEIR 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.
7.

THE COST FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL NOT BE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT BE THE RESPONSIBILITY OF THE VILLAGE OF HARTVILLE.
8.

DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION OR NATURAL GAS LINE RELOCATION/REPLACEMENT 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.
9.

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.
10.

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.

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.
12.

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL ITEMS OF THE PROPOSAL.
13.

ANY ACTIVE CONNECTION TO A SANITARY SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED TO THE EXISTING SANITARY SEWER TO THE SATISFACTION OF THE ENGINEER. THE FOLLOWING CONDUIT TYPES MAY BE USED: SS 944, SS 942, SS 931, 706.01, OR 707.45

STORM SEWER

1.

ALL PIPE USED FOR STORM SEWER INSTALLATION ON THIS PROJECT SHALL CONFORM TO ODOT ITEM 706.02 - REINFORCED CONCRETE PIPE CLASS III WITH JOINTS AS PER 706.10 OR 706.11, OR ODOT ITEM 707.33 W/ BELL AND SPIGOT CORRUGATED POLYETHYLENE SMOOTH LINED DRAINAGE PIPE MEETING AASHTO M294 (TYPE S FOR 12" THRU 36" DIAMETER).
2.

ALL EXISTING STORM DRAINAGE PIPING ENCOUNTERED DURING CONSTRUCTION SHALL BE CONNECTED INTO THE NEW STORM SEWER, CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE OR ABANDONED, AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR ALL ITEMS OF THE PROPOSAL. THIS INCLUDES DOWNSPOUT CONNECTIONS FROM EXISTING BUILDINGS.

MAINTENANCE OF TRAFFIC:

PRIOR TO THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A PROPOSED PROJECT CONSTRUCTION SCHEDULE AND A DETAILED MAINTENANCE OF TRAFFIC PLAN TO THE VILLAGE OF HARTVILLE. BOTH THE SCHEDULE AND MAINTENANCE OF TRAFFIC PLAN SHALL BE APPROVED BY THE VILLAGE PRIOR TO THE START OF CONSTRUCTION. COST OF THIS WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

ONE LANE LOCAL ACCESS TO ALL ABUTTING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO ALL DRIVEWAYS SHALL ALSO BE MAINTAINED AT ALL TIMES EXCEPTING THE TIME WHEN CONCRETE CURB OR DRIVE APRONS ARE CURING.

MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

SEWER INSTALLATION

1.

SANITARY SEWERS SHALL MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL FROM ANY WATER MAIN.
2.

SANITARY SEWER MUST BE A MINIMUM OF 4' HORIZONTALLY, MEASURED EDGE-TO-EDGE, FROM STORM SEWERS AND GAS LINES AND MUST MAINTAIN A MINIMUM 18" VERTICAL CLEARANCE AT ANY UTILITY LINE.
3.

SANITARY SEWER AND MANHOLE TESTING REQUIREMENTS:

A.

LEAKAGE TESTING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH SPECIFICATION SECTION 013319 AND RSFW 33.93 AND 33.94.

B.

DEFLECTION TESTING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 013319 AND RSFW 33.85

C.

MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH SPECIFICATION SECTION 013319 AND RSFW 34.7.
4.

TRENCHING, BEDDING, AND BACKFILL SPECIFICATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 333100 AND INCLUDED DETAILS.
5.

SANITARY SEWER FOR OPEN CUT AND CARRIER PIPE IN TRENCHLESS SECTIONS SHALL BE PVC SDR 26, ASTM D3034, JOINT SPEC ASTM D3212 OR APPROVED EQUIVALENT.
6.

SEWERS FROM MH #100A TO MH #323 SHALL BE CONSTRUCTED BY TRENCHLESS MEANS AND METHODS. FINAL MEANS AND METHODS FOR THIS SECTION ARE SUBJECT TO CONTRACTOR'S PREFERENCE PENDING VILLAGE OF HARTVILLE APPROVAL. **THE METHOD DESCRIPTION TO BE INCLUDED IN THE BID PACKAGE.** APPROVAL FOR MEANS AND METHODS SHALL BE DEPENDENT ON ABILITY TO MEET THE FOLLOWING CRITERIA:

A.

ALL CONSTRUCTION OPERATIONS SHALL REMAIN WITHIN THE RIGHT-OF-WAY.

B.

ALL MEANS AND METHODS SHALL BE PERFORMED IN ACCORDANCE WITH MOST RECENT VILLAGE, COUNTY AND STATE RULES AND REGULATIONS.

C.

INVERTS AND THE CURRENT DESIGN OF ALL SEWERS MAY BE MODIFIED PROVIDED THE FOLLOWING CONDITIONS ARE MET:

C.1

ALL PIPE SLOPES SHALL MAINTAIN A MINIMUM SLOPE OF 0.2% OR GREATER. SLOPE SHALL BE CONSISTENT BETWEEN MANHOLES.

C.2

MH #323 SHALL NOT BE RAISED ABOVE ITS CURRENT INVERT.

C.3

SEWER MUST BE ABLE TO CONNECT TO THE EX. SANITARY MANHOLES.

C.4

ANY ADDITIONAL RESTORATION WORK NOT DETAILED IN PLANS OR SPECIFICATION THAT IS REQUIRED DUE TO MODIFICATION IN DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT SHALL BE MADE.

C.5

ALL TRENCHLESS SEWER INSTALLATION SHALL BE PAID UNDER THE "8" SANITARY SEWER, TRENCHLESS, AS PER PLAN" ITEM. IF CHANGES ARE MADE TO THE CURRENT DESIGN DUE TO THE MEANS AND METHODS SELECTED BY THE CONTRACTOR TO CONSTRUCT THE TRENCHLESS SEWER SECTION, NO ADDITIONAL PAYMENT SHALL BE MADE FOR ANY ADDITIONAL LABOR, EQUIPMENT, OR MATERIALS NECESSARY TO COMPLETE THE TRENCHLESS SECTIONS OR ANY CORRESPONDING CHANGES THAT ARE REQUIRED TO DOWNSTREAM OR UPSTREAM SEWERS OR MANHOLES.

D.

CONTRACTOR SHALL INSTALL DROP STRUCTURES IF INVERTS ARE MODIFIED AND PIPE INLET INVERT ABOVE THE MANHOLE INVERT IS 24" OR GREATER.

E.

CONTRACTOR TO USE EXTREME CAUTION DURING THE INSTALLATION OF THE PROPOSED SANITARY SEWER PIPE, ESPECIALLY THE CLOSE PROXIMITY OF THE THE EXISTING BUILDINGS AND THE NARROW ALLEY.
- verdantas

ISSUED FOR:

BIDDING

ISSUE DATE:

1-23-2025

SCALE:

A5 NOTED

DESIGNED BY:

SSA

DRAWN BY:

BEK

CHECKED BY:

SSA

DATE

REVISION

NO

VILLAGE OF HARTVILLE

HOWARD COURT

SANITARY SEWER REPLACEMENT

STARK COUNTY

VILLAGE OF HARTVILLE, OHIO

GENERAL NOTES

PROJECT NO.

23010502

DISCIPLINE

CIVIL

SHEET NAME

GN-01

SHEET

2

OF

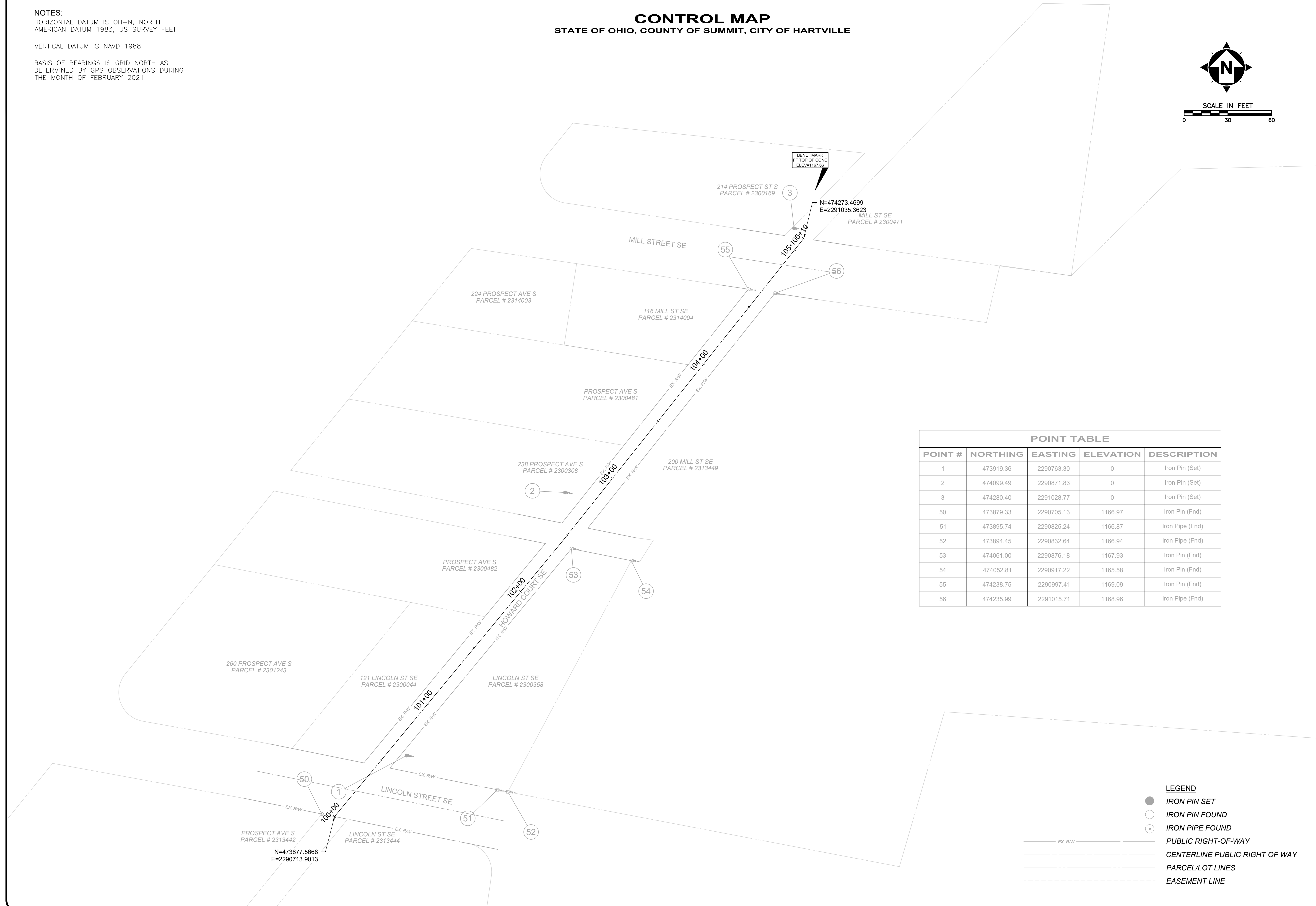
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H:\0029\23010502\DWG\SHEETBTRC_210226 - GENERAL NOTES.DWG - 09x41 - 24/02/25 7:58:44 AM - JOSH ROHRBACH

HORIZONTAL DATUM IS OH-N, NORTH
AMERICAN DATUM 1983, US SURVEY FEET

BASIS OF BEARINGS IS GRID NORTH AS
DETERMINED BY GPS OBSERVATIONS DURING
THE MONTH OF FEBRUARY 2021

A north arrow pointing upwards, with the letter 'N' in the center. Below it is a scale bar labeled 'SCALE IN FEET' with markings at 0, 30, and 60.



POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	473919.36	2290763.30	0	Iron Pin (Set)
2	474099.49	2290871.83	0	Iron Pin (Set)
3	474280.40	2291028.77	0	Iron Pin (Set)
50	473879.33	2290705.13	1166.97	Iron Pin (Fnd)
51	473895.74	2290825.24	1166.87	Iron Pipe (Fnd)
52	473894.45	2290832.64	1166.94	Iron Pipe (Fnd)
53	474061.00	2290876.18	1167.93	Iron Pin (Fnd)
54	474052.81	2290917.22	1165.58	Iron Pin (Fnd)
55	474238.75	2290997.41	1169.09	Iron Pin (Fnd)
56	474235.99	2291015.71	1168.96	Iron Pipe (Fnd)

ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE:			01-23-25
SCALE:			AS NOTED
DESIGNED BY:			SSA
DRAWN BY:			BEK
CHECKED BY:			SSA

VILLAGE OF HARTVILLE

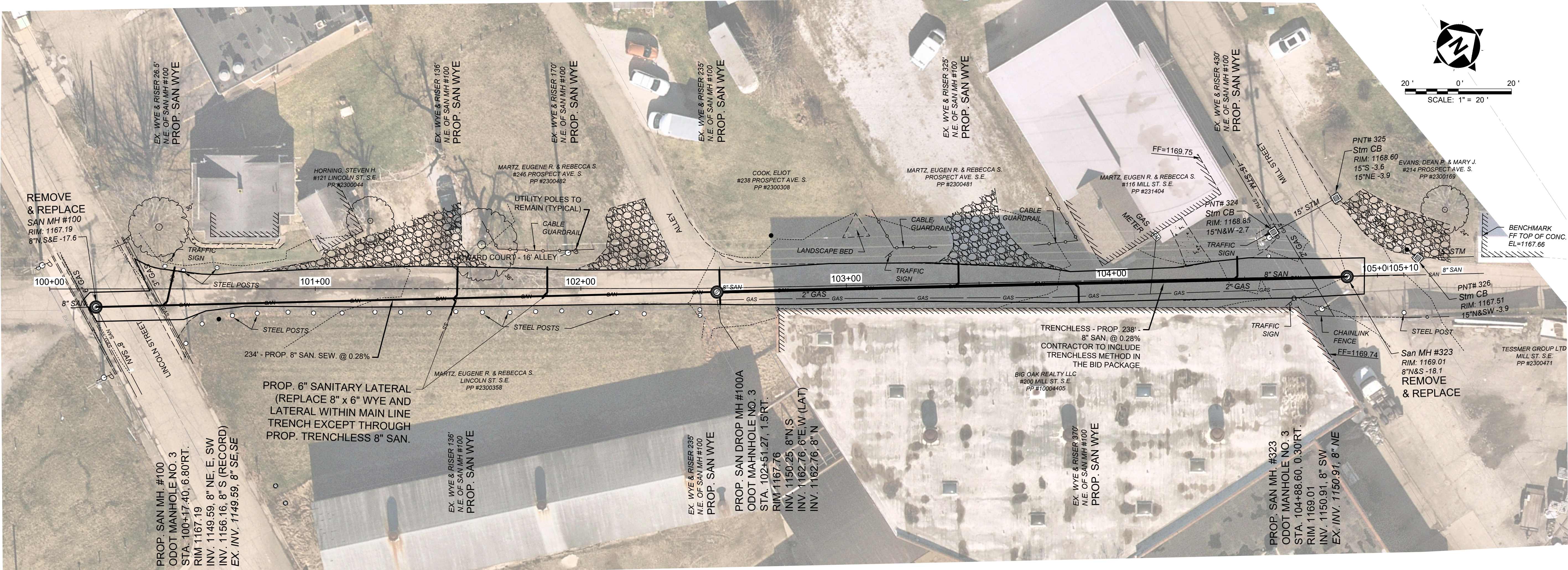
HOWARD COURT

SANITARY SEWER REPLACEMENT

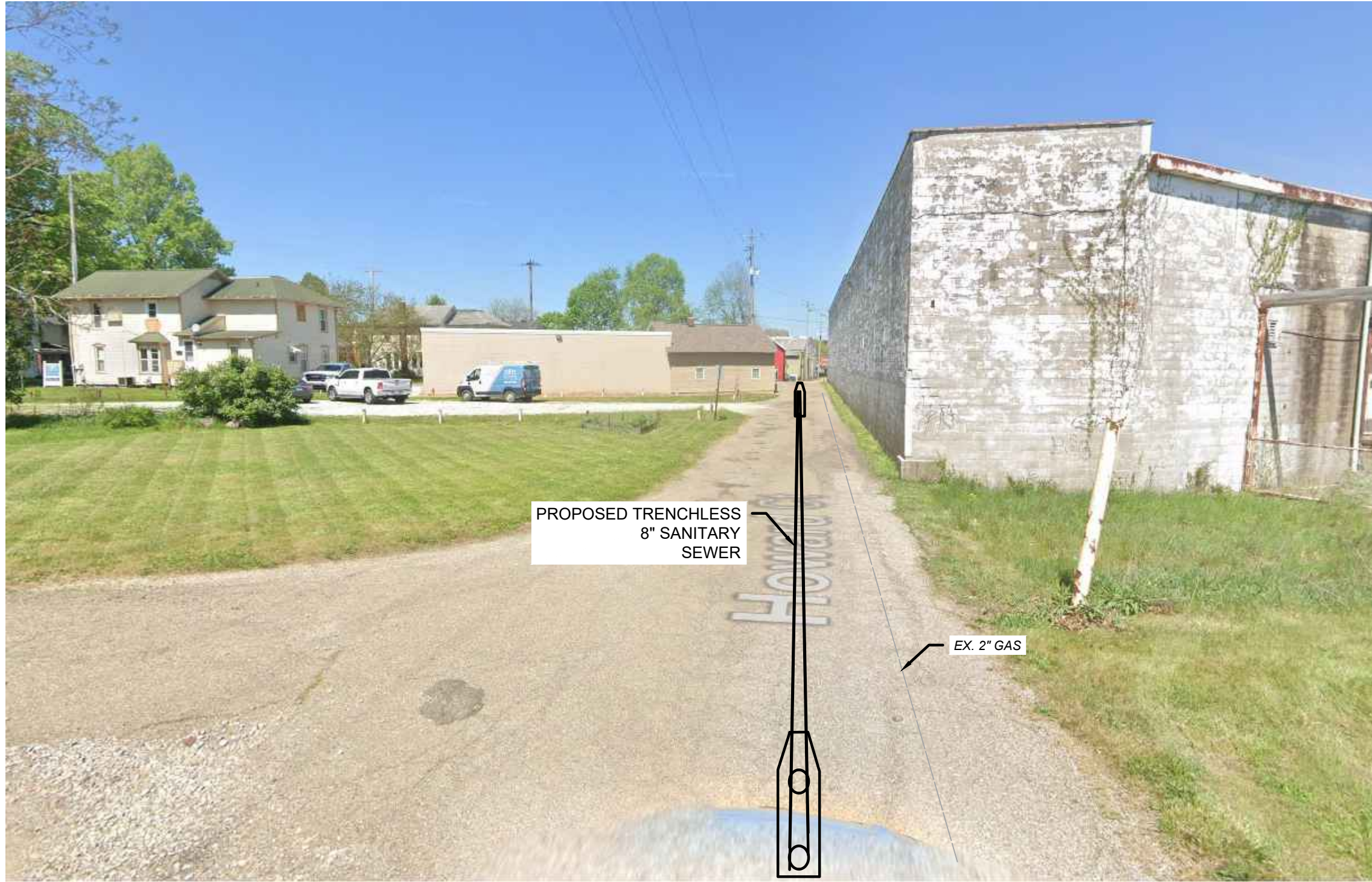
STARK COUNTY VILLAGE OF HARTVILLE, OHIO

CONTROL SHEET

PROJECT NO.	
23010502	
DISCIPLINE	
CIVIL	
SHEET NAME	
SV-1	
SHEET	OF
3	6



THE CONTRACTOR TO USE EXTREME CAUTION DURING THE INSTALLATION OF THE PROPOSED SANITARY SEWER PIPE, ESPECIALLY THE CLOSE PROXIMITY OF THE THE EXISTING BUILDINGS AND THE NARROW ALLEY.



STA. 102+00 LOOKING NORTH



STA. 103+50 LOOKING NORTH

verdantas

3875 EMBASSY PARKWAY, SUITE 200
AKRON, OHIO
330-375-0800

ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUE DATE:	01-23-25			
SCALE:	AS NOTED			
DESIGNED BY:	SSA			
DRAWN BY:	BEK			
CHECKED BY:	SSA			

VILLAGE OF HARTVILLE

HOWARD COURT

SANITARY SEWER REPLACEMENT

VILLAGE OF HARTVILLE, OHIO

STARK COUNTY

PLAN AND PROFILE

PROJECT NO.

23010502

DISCIPLINE

CIVIL

SHEET NAME

PP-2

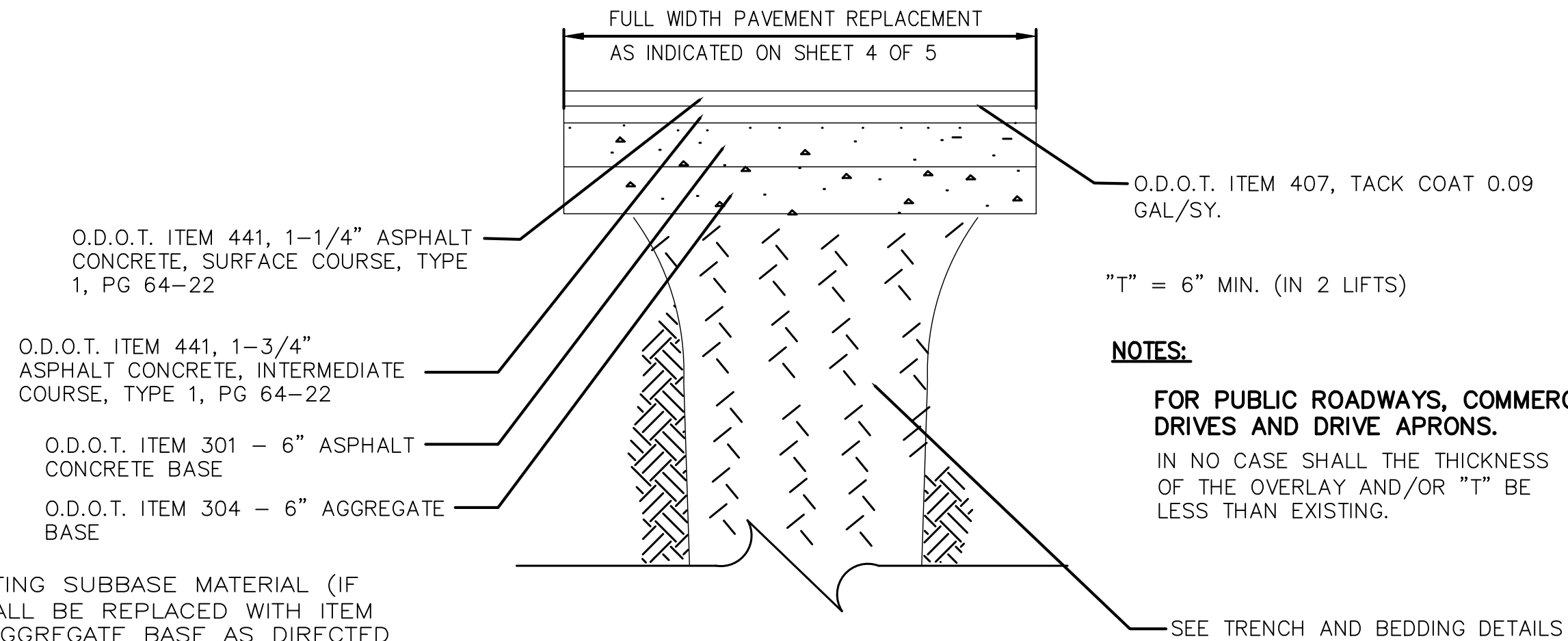
SHEET

5

OF

6

H:\210228\BOWB\BASC-210228-BASE-EXCEND.DWG - PP-2 - 10/30/2025 1:15:47 PM - BRIAN KELL



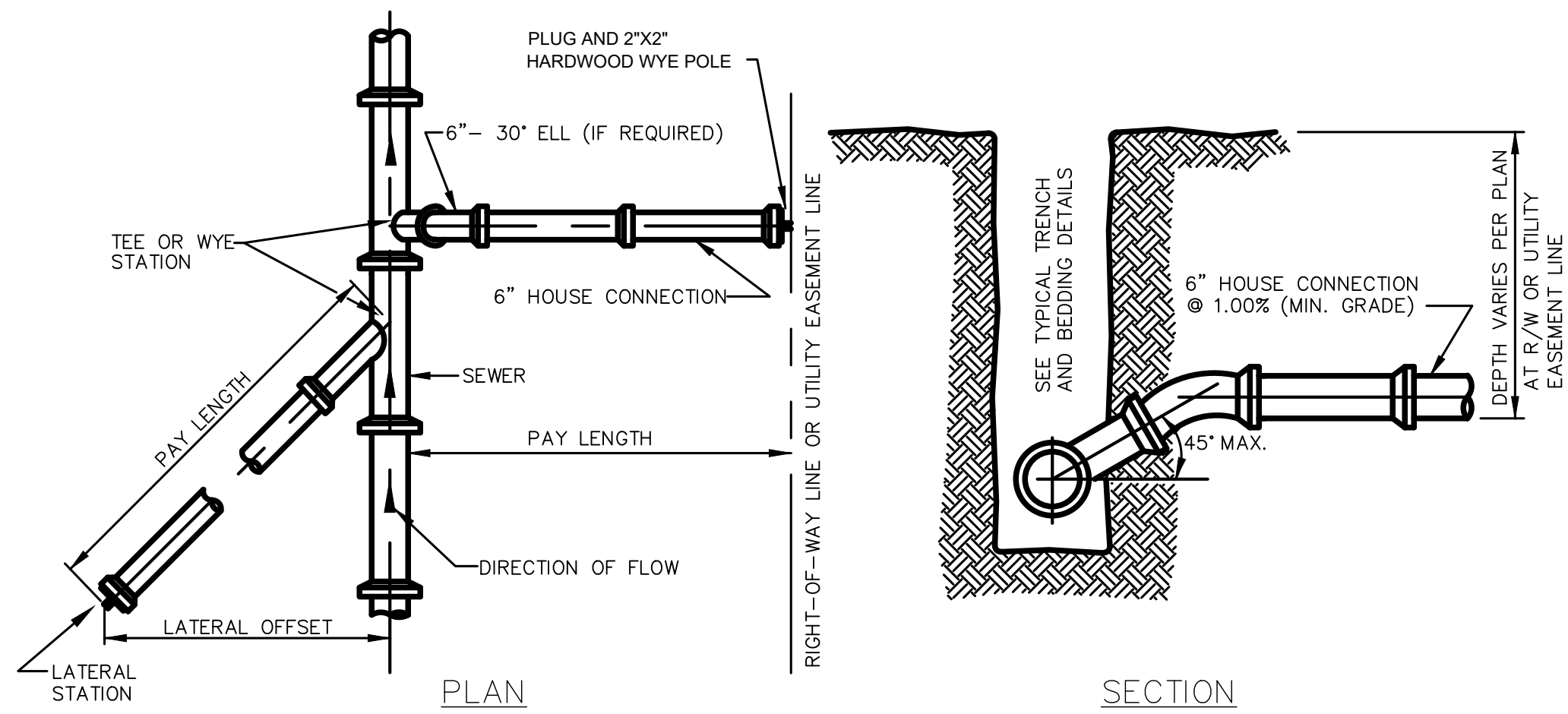
1. EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED WITH ITEM 304 - AGGREGATE BASE AS DIRECTED BY THE ENGINEER. A QUANTITY HAS BEEN ADDED TO THE BID FORM.

(ASPHALT)
10/10

SD-5-3

- | | | |
|--|---|---|
| <p><u>CLASS 'A' PIPE EMBEDMENT</u></p> <p>1. 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 PIPE SIZES 60" I.D. AND OVER.</p> <p>2. 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.</p> <p>3. 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.</p> <p>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 SUIABLE 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 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 SUIABLE 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.</p> | <p><u>CLASS 'B' PIPE EMBEDMENT</u></p> <p>4. 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 SUIABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.</p> <p>5. SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 02300CT – EARTHWORK.</p> <p>6. CLAY TRENCH DAMS: CLAY TRENCH DAMS SHALL BE REQUIRED AS SHOWN ON PLANS OR WHEN AND WHERE NECESSARY AS DIRECTED BY THE ENGINEER.</p> <p>7. 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.</p> <p>8. 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.</p> | <p><u>CLASS 'C' PIPE EMBEDMENT</u></p> |
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6/04	NO SCALE	SD-1-1
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1/89 SD-2-12

4/08 SD-3-21

P-1	P-2
6"	6"
8"	6"
10"	6"
12"	8"
15"	8"
18"	10"
21"	10"
24"	12"

ISSUED FOR:	BIDDING	NO.	REVISION	DATE
ISSUE DATE:	01-23-25			
SCALE:	AS NOTED			
DESIGNED BY:	SSA			
DRAWN BY:	BEK			
CHECKED BY:	SSA			

VILLAGE OF HARTVILLE
HOWARD COURT
SANITARY SEWER REPLACEMENT
STARK COUNTY **VILLAGE OF HARTVILLE, OHIO**

STANDARD DETAILS

PROJECT NO.	
23010502	
DISCIPLINE	
CIVIL	
SHEET NAME	
D-1	
SHEET	OF
6	6