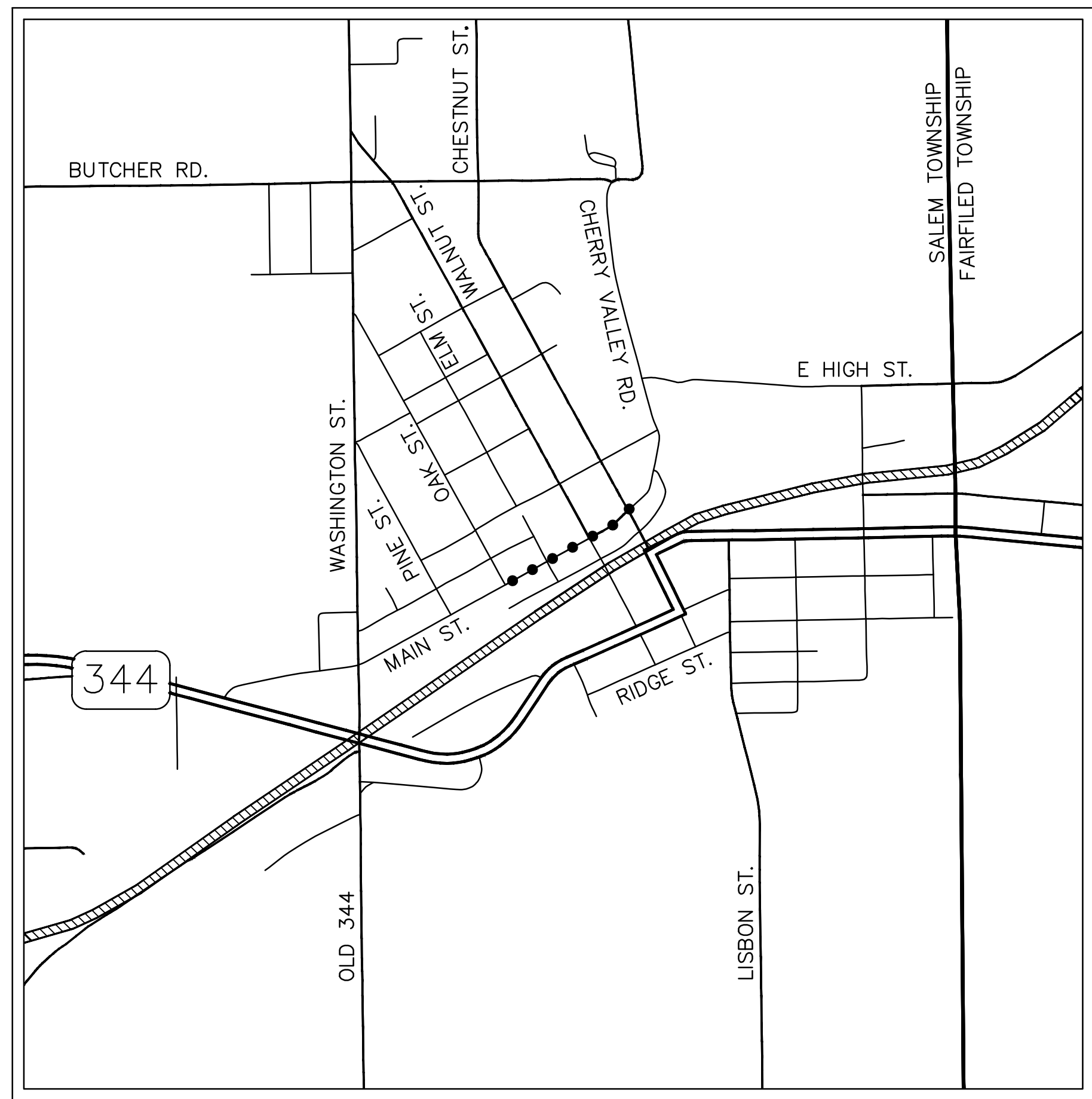
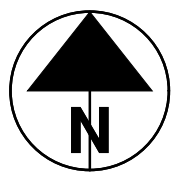
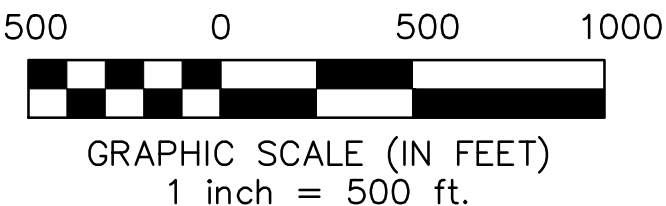




LOCATION MAP

LATITUDE: 40°52'38.07" LONGITUDE: 80°45'29.33"



- RAILROAD _____
- PROJECT LOCATION _____
- LOCAL ROAD _____
- STATE ROAD _____

DESIGN DESIGNATIONS

CURRENT ADT _____ 656
TRUCKS (24 HOUR B&C) _____ 10% (ASSUMED)
LEGAL SPEED _____ 25 MPH
DESIGN FUNCTIONAL CLASSIFICATION:
LOCAL ROAD _____
NHS PROJECT _____ NO

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES **TWO WORKING DAYS**
BEFORE YOU DIG.



CALL BEFORE YOU DIG
1-800-362-2764

(NON-MEMBERS MUST BE CALLED DIRECTLY)

OIL & GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE
1-800-925-0988

PLAN PREPARED BY:
HERBERT, ROWLAND, & GRUBIC, INC.
220 W KENSINGER DRIVE,
CRANBERRY TOWNSHIP,
PENNSYLVANIA 16066

PLANS FOR CONSTRUCTION

LEETONIA

STREETSCAPE

VILLAGE OF LEETONIA

COLUMBIANA COUNTY

PID #117640

FINAL PLANS

INDEX OF SHEETS:

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PROJECT DESCRIPTION

IMPROVEMENT OF 0.5 MILES OF MAIN STREET IN THE VILLAGE OF LEETONIA, FROM OAK STREET TO CHESTNUT STREET: PEDESTRIAN SAFETY IMPROVEMENTS, ADA COMPLIANT FEATURES, LIGHTING, CURB BUMP OUTS, AND SHARE THE ROAD BICYCLE PAVEMENT MARKINGS.

TRAFFIC NOT REROUTED

THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF ADJACENT ROADWAYS AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

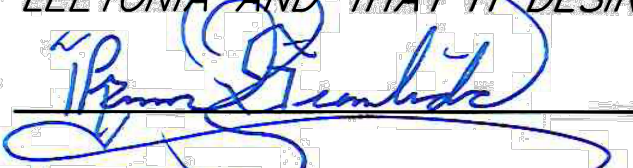
2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL SHALL GOVERN THIS IMPROVEMENT.

FAN # - E220622

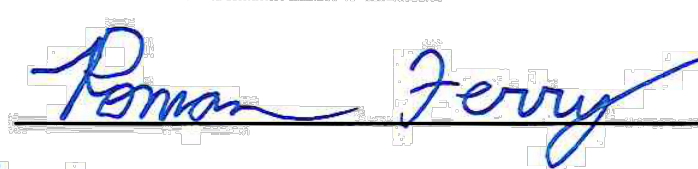
SBE GOAL - 7%

THE UNDERSIGNED DECLARES THAT THE PLAN WAS MADE AT THE DIRECTION OF THE VILLAGE OF LEETONIA AND THAT IT DESIRES THE SAME TO BE ITS ACT AND PLAN.

APPROVED: 

DATE: 7/14/2026

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING IF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF ANY HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET ON THE PLANS AND ESTIMATES.

APPROVED: 

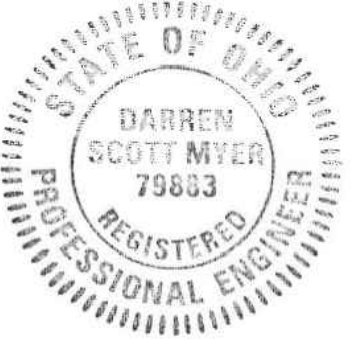
DATE: 7/14/2026

APPROVED: _____

DATE: _____

APPROVED: _____

DATE: _____

ENGINEERS SEAL:	OHIO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
 SIGNED:  DATE: <u>7/17/2026</u>	BP-3.1	1/19/24	TC-52.20	1/15/21	813	7/21/23
	BP-4.1	7/19/13	TC-71.10	1/16/26	825	7/19/24
	BP-5.1	1/16/26	HL-10.11	1/16/26	913	4/16/21
	BP-7.1	1/16/26	HL-10.12	1/16/26	800	7/17/26
	DM-4.3	1/15/16	HL-10.13	1/20/23	(or 1/16/26)	
	DM-4.4	1/15/16	HL-20.11	1/16/26	832	7/18/25
	MT-97.10	7/18/25	HL-30.11	1/16/26		
	MT-97.12	1/16/26	HL-30.22	1/17/25		
	MT-99.20	4/19/19	HL-40.20	7/18/25		
	MT-101.90	7/17/20	HL-60.11	7/21/17		
	MT-105.10	1/17/20	HL-60.31	1/16/26		
	TC-41.20	10/18/13				
	TC-42.20	10/18/13				
	TC-52.10	10/18/13				

PID NO.
117640

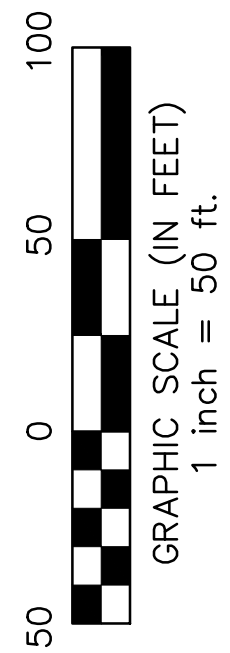
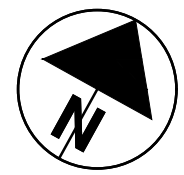
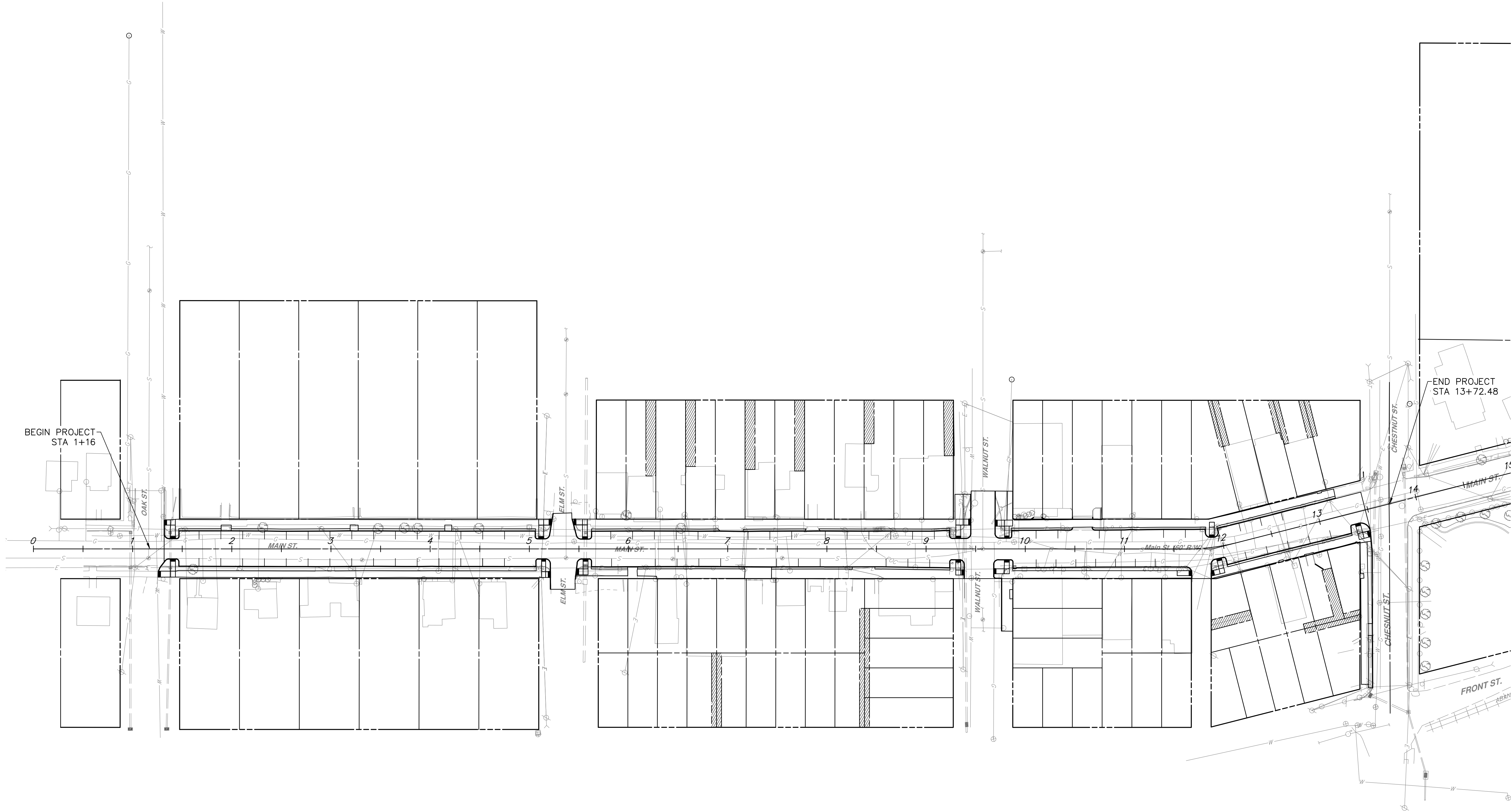
COVER SHEET
VILLAGE OF LEETONIA
STREETSCAPE
COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBERRY TOWNSHIP, PA 16066
724.778.4777 | hrginc.com



SCALE:
AS SHOWN
DATE: JULY 14, 2026
JOB NO: R007307.0430
DESIGN: BJH
DRAWN: KMW
CHECKED: DSM
SHEET NO.
1 OF 19

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Jul 16, 2026 - 8:57am
chatten



SCHEMATIC PLAN

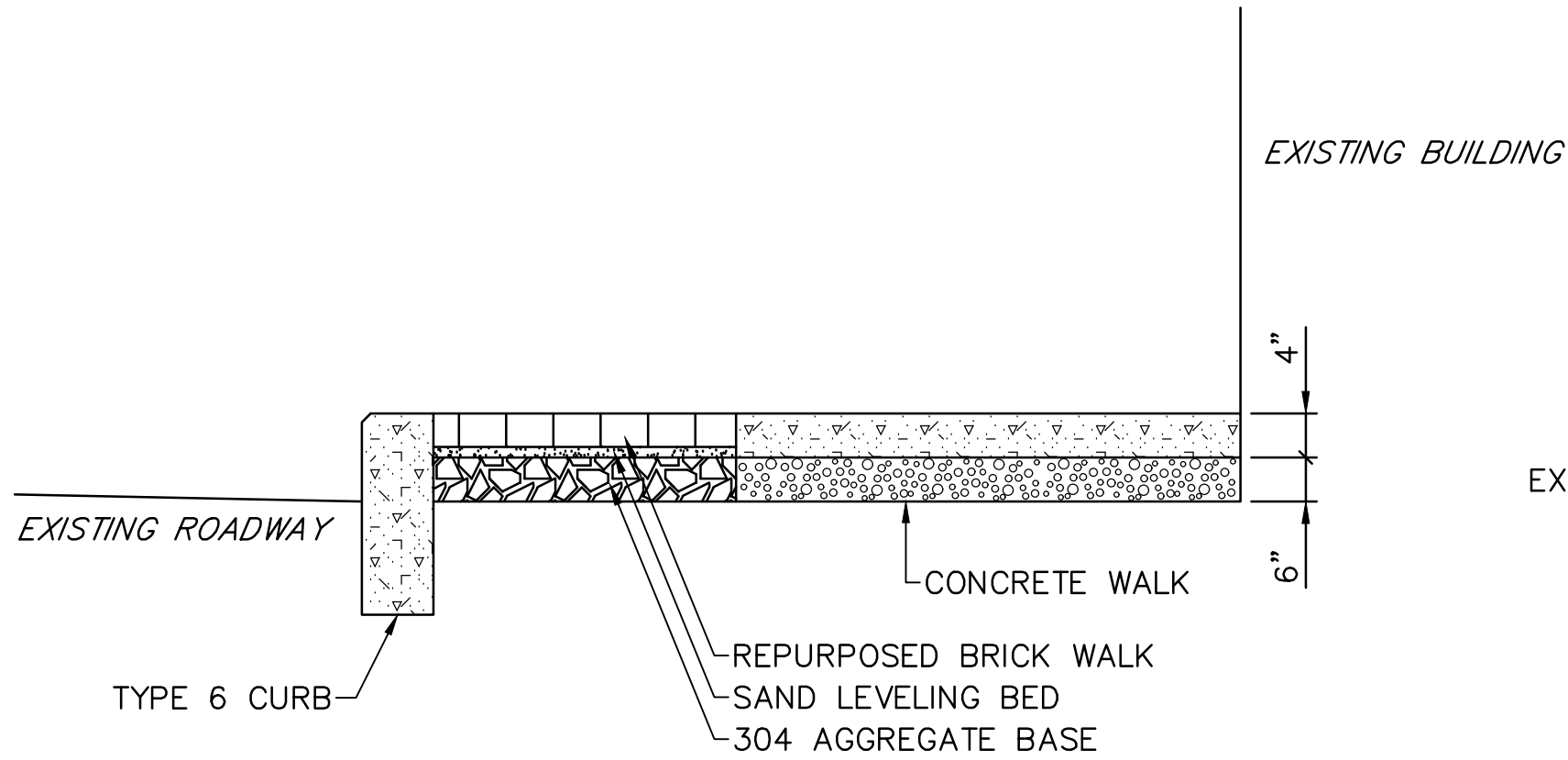
VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.
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SUITE 100
CRANBURY TOWNSHIP, PA 16066
724.778.4777 | hrginc.com

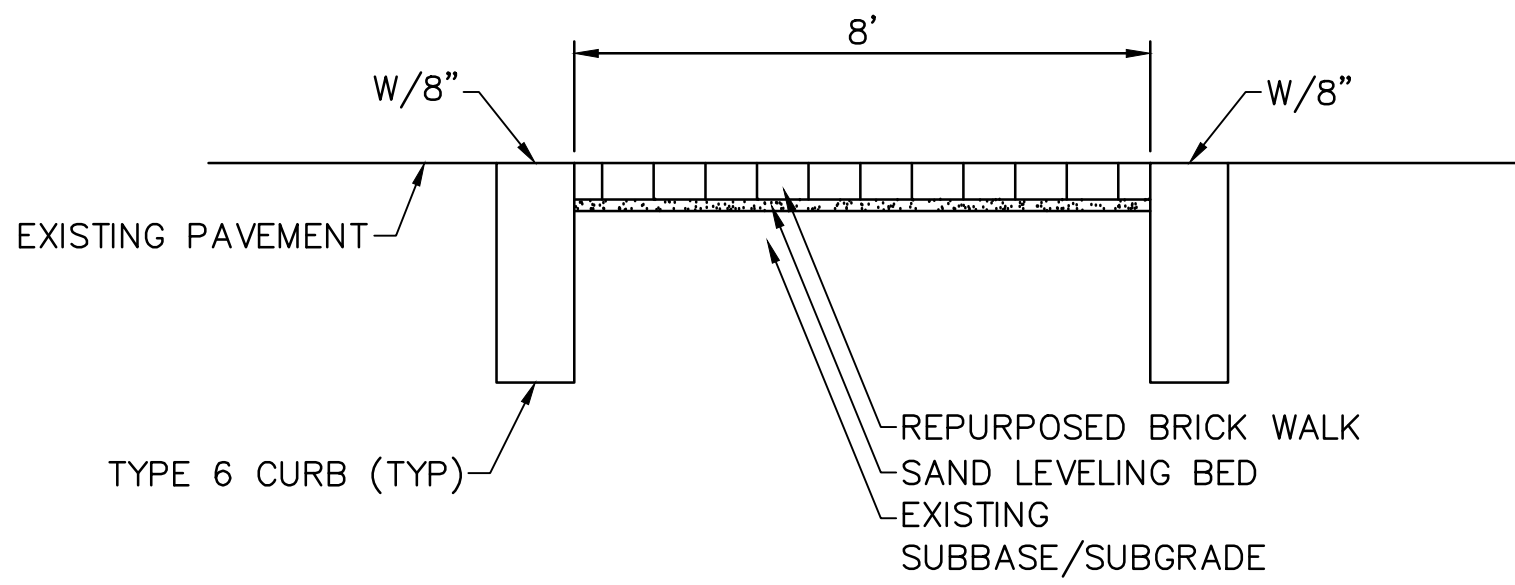


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AS SHOWN
DATE: JULY 14, 2026
JOB NO: R007307.0430
DESIGN: BJH
DRAWN: KMV
CHECKED: DSM
SHEET NO.
2 OF 19



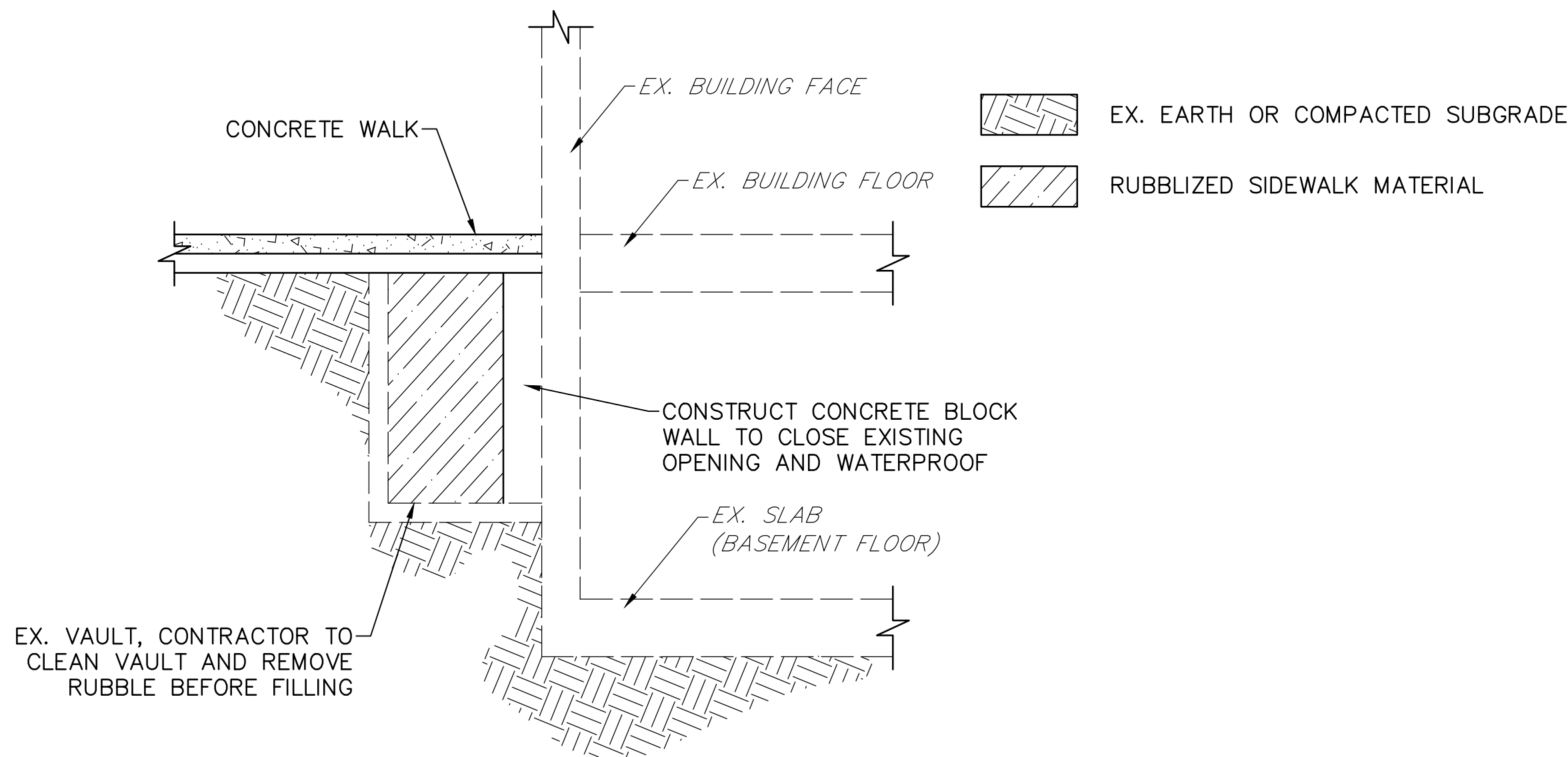
SPECIAL - BRICK WALK DETAIL

N.T.S.
SEE SIDEWALK PLANS FOR LOCATIONS



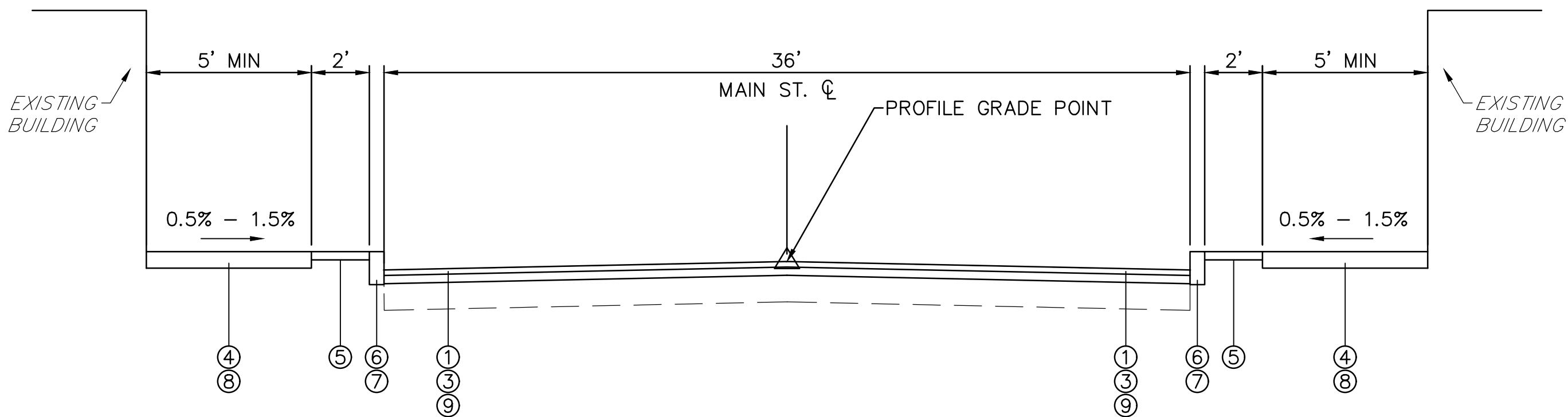
BRICK CROSSWALK DETAIL

N.T.S.



FILL EXISTING VAULT DETAIL

N.T.S.



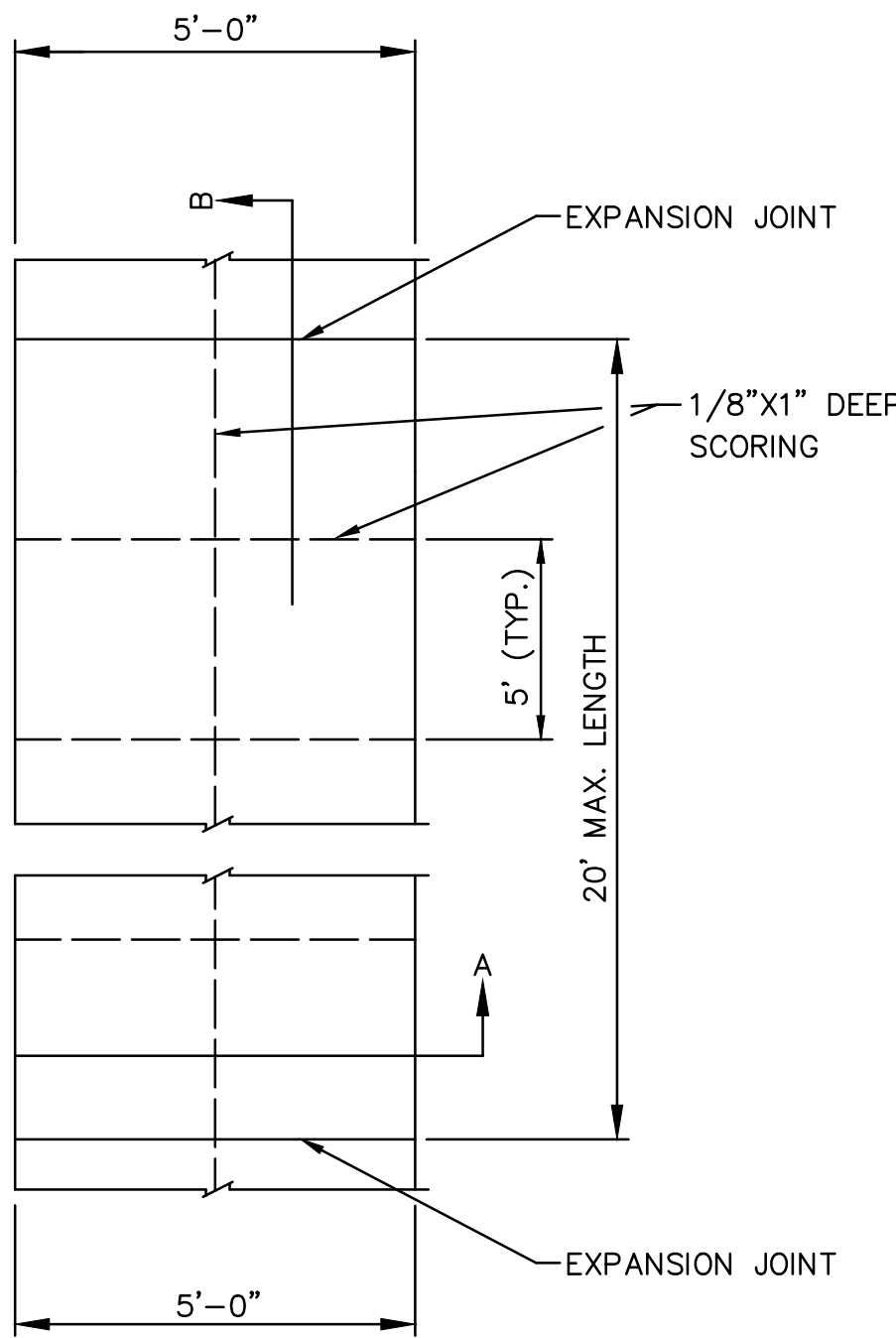
MAIN ST OVERLAY TYPICAL SECTION

STA 5+21 TO STA 13+47.48

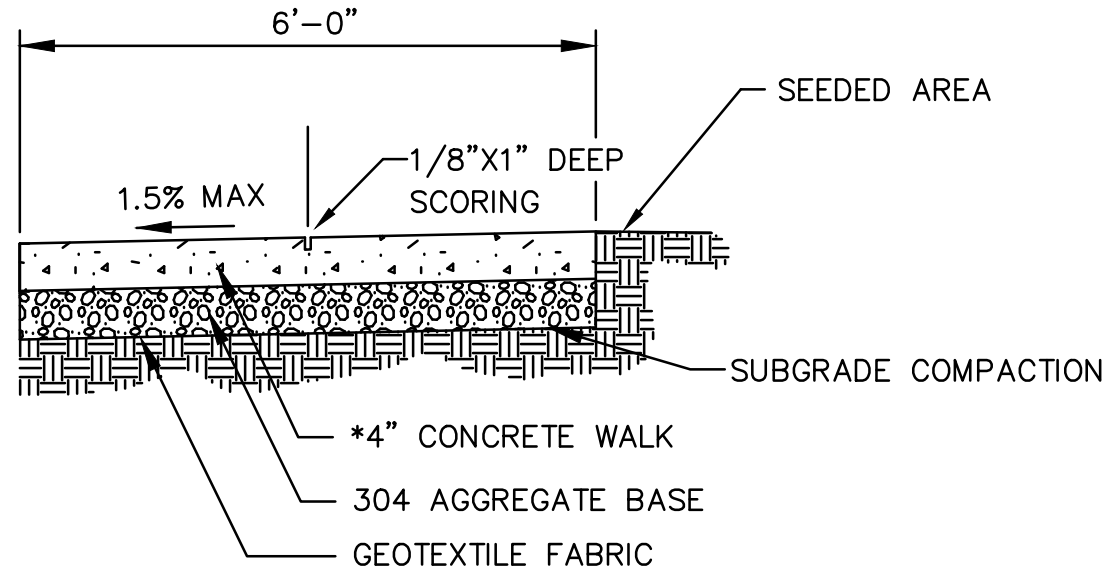
* SEE PLAN SHEETS FOR CURB, SIDEWALK AND STAMPED CONCRETE SIDEWALK REPLACEMENT AREAS.

LEGEND

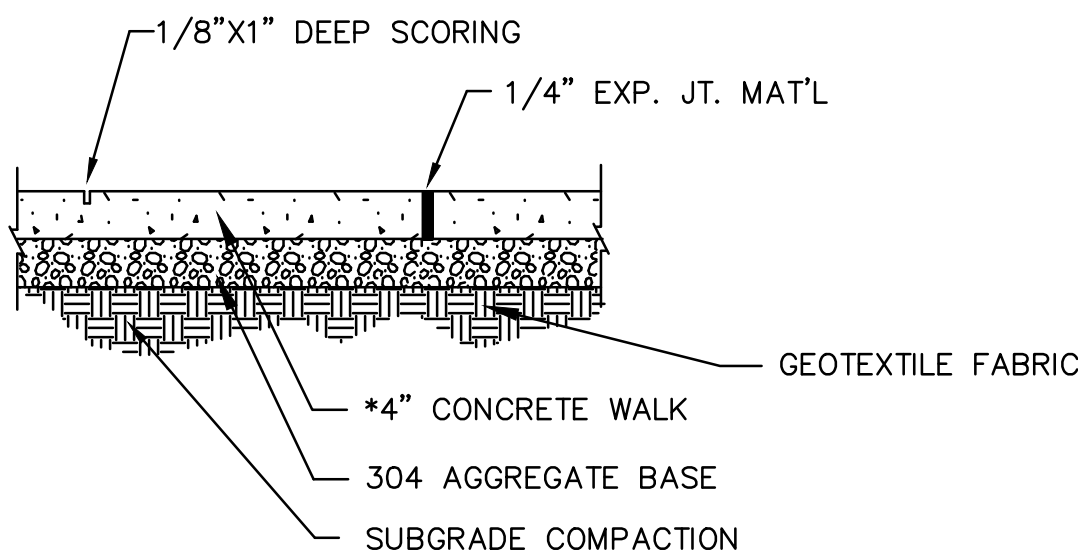
- | | | |
|----|-----|---|
| 1 | 441 | ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), 1 1/2" DEPTH |
| 2 | 441 | ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446), 2 1/2" DEPTH |
| 3 | 407 | NON-TRACKING TACK COAT |
| 4 | 608 | 4" CONCRETE WALK |
| 5 | 608 | SPECIAL - BRICK WALK |
| 6 | 609 | CURB, TYPE 6 |
| 7 | 202 | CURB REMOVED |
| 8 | 202 | WALK REMOVED |
| 9 | 202 | WEARING COURSE REMOVED |
| 10 | 202 | SPECIAL - BRICK PAVEMENT REMOVED |



PLAN VIEW



SECTION A



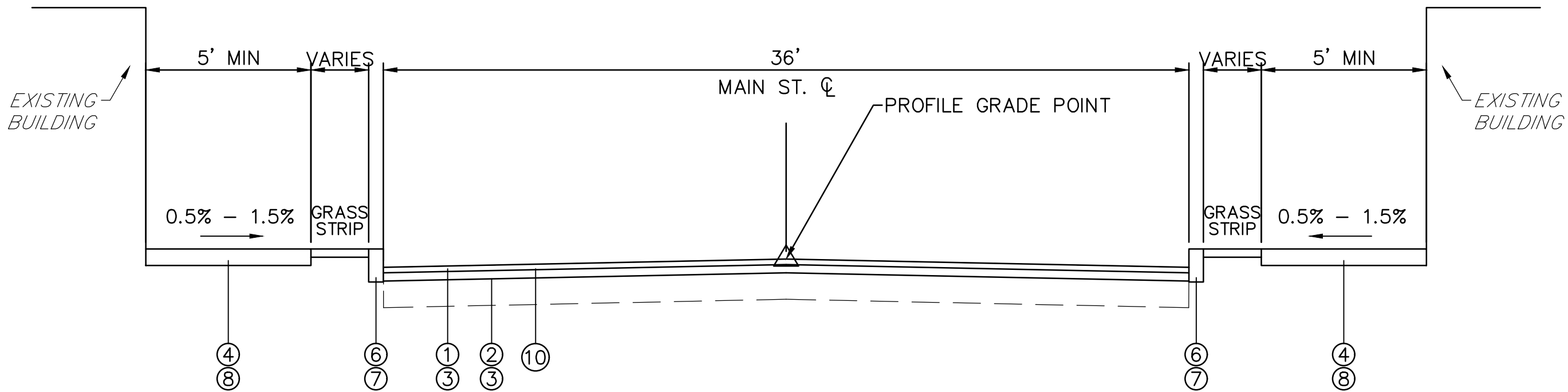
SECTION B

CONCRETE WALK DETAILS

N.T.S.

NOTE:

- * 6" CONCRETE WALK WITHIN RESIDENTIAL DRIVEWAY LIMITS
- * 8" CONCRETE WALK WITHIN COMMERCIAL DRIVEWAY LIMITS



MAIN ST PAVEMENT RESTORATION TYPICAL SECTION

STA 1+32 TO STA 5+21

* SEE PLAN SHEETS FOR CURB AND SIDEWALK REPLACEMENT AREAS.

ODOT SCD DETAILS (BP - 3.1)

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.
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SHEET NO.
3 OF 19

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES AS REQUIRED BY LOCAL ORDINANCE. IN ADDITION, DO NOT OPERATE ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT. CONTRACTOR SHALL ADHERE TO ALL NOISE ORDINANCES PER LOCAL CODE. NO WORK IS TO BE PERFORMED BETWEEN 7 PM AND 7 AM TO LIMIT NOISE.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROTECTION OF LANDSCAPING

CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FEATURES SCHEDULED TO REMAIN.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE MAINTAINED WITHIN THE RIGHT OF WAY.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

MAINTAINING TRAFFIC

ONE LANE OF TRAFFIC/PARKING SHALL BE MAINTAINED DURING CURB REPLACEMENT AND SIDEWALK CONSTRUCTION. INGRESS AND EGRESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. IN ADDITION, SECTION 104.04 (MAINTENANCE OF TRAFFIC) AND SECTION 107.10 (TEMPORARY TRAFFIC CONTROL DEVICES) OF THE OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS, SHALL BE IN FORCE DURING THE ENTIRE LIFE OF CONSTRUCTION, SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

UTILITIES

THERE ARE NUMEROUS OVERHEAD AND UNDERGROUND UTILITIES LOCATED IN THE PROJECT AREA. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY UNDERGROUND UTILITIES THAT MAY EXIST UNDER OR ADJACENT TO THE WORK AREA. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C. ANY EXCAVATIONS BENEATH EXISTING CURB AND SIDEWALK SUBBASE SHALL BE COORDINATED WITH ALL UTILITIES PRESENT IN THE PROJECT AREA.

CONNECTION OF CLEAN WATER SYSTEMS TO SANITARY SEWER IS PROHIBITED. ANY CLEAN WATER CONNECTIONS FOUND TO BE TIED INTO SANITARY SEWER IN THE PROJECT AREA SHALL BE BROUGHT TO THE VILLAGE TO RECTIFY.

UTILITIES NOTIFICATION

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN IN THE PLANS. THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY-EIGHT HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

TRAFFIC SIGNS AND SUPPORTS

SIGN AND SUPPORT INSTALLATION SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS

THIS PROJECT SHALL FOLLOW THE LATEST STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIALS SPECIFICATIONS, AND THE STANDARD CONSTRUCTION DRAWINGS NOTED IN THIS PLAN SET ON THE TITLE SHEET.

EXISTING CONDITIONS

EXISTING ROADS, DRIVEWAYS AND STRUCTURES SHOWN SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO LOCATE AND PROTECT EXISTING UTILITY SERVICES AND MAINS. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE FIELD ENGINEER PRIOR TO CONSTRUCTION.

CONSTRUCTION

FAILURE TO SPECIFICALLY MENTION ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES AND SAFETY PRECAUTIONS AND PROGRAMS. THE CONTRACTOR IS RESPONSIBLE FOR TRANSITIONS TO DRIVEWAYS, DRAINAGE STRUCTURES AND OTHER ROADSIDE FEATURES. METAL TRENCH PLATES ARE REQUIRED FOR ALL JOBS INVOLVING CULVERT REPLACEMENT. TRENCH PLATES MUST BE PRESENT ON SITE AND READY FOR IMMEDIATE USE PRIOR TO ROADWAY EXCAVATION.

ACCESS TO BUSINESSES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.

THE STAGING AND/OR STORAGE OF CONSTRUCTION EQUIPMENT OR MATERIALS SHALL NOT TAKE PLACE OUTSIDE PROPOSED CONSTRUCTION LIMITS.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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 PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OR ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATION DESCRIBED ABOVE SHALL BE INCLUDED ABOVE IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE VILLAGE, REPRESENTATIVES OF THE VILLAGE AND CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN RECORD BY THE VILLAGE.

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.

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

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING.

DRIVEWAY TIE-INS

MAXIMUM SLOPE SHALL BE 5.0%

SECTION 4(f)

ACCESS TO THE LEETONIA POCKET PARK, LOCATED AT 266 MAIN STREET, SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE LEETONIA POCKET PARK PROPERTY AND THE PUBLIC.

APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF THE LEETONIA POCKET PARK OF CONSTRUCTION ACTIVITIES, IF IN PROXIMITY TO RECREATIONAL FACILITIES OR FEATURES.

THE CONTRACTOR SHALL CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT AND THE VILLAGE OF LEETONIA PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

ACCESS TO THE LEETONIA SPLASH PAD, LOCATED ON CHESTNUT STREET, WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

AIR EMISSIONS

ALL CONSTRUCTION VEHICLES SHALL BE EQUIPPED WITH PROPER EMISSIONS CONTROL EQUIPMENT.

PERIODICALLY CHECK EQUIPMENT AND MACHINERY FOR PROPER TUNING TO MINIMIZE EXHAUST EMISSIONS AND NOISE.

UNPAVED AREAS WILL BE WET DOWN (AS NECESSARY) DURING CONSTRUCTION TO MINIMIZE DUST GENERATION.

ARCHAEOLOGICAL AND HISTORICAL RESOURCES

CONTRACTORS AND SUBCONTRACTORS ARE REQUIRED UNDER OHIO REVISED CODE (O.R.C.) SECTION 149.53, TO NOTIFY THE OHIO HISTORICAL SOCIETY AND THE OHIO HISTORIC SITE PRESERVATION BOARD OF ARCHAEOLOGICAL DISCOVERIES LOCATED IN THE PROJECT AREA AND TO COOPERATE WITH THOSE ENTITIES IN ARCHAEOLOGICAL AND HISTORIC SURVEYS AND SALVAGE EFFORTS IF SUCH DISCOVERIES

ARE UNCOVERED WITHIN THE PROJECT AREA.
CONTACT: STATE HISTORIC PRESERVATION OFFICE
PHONE: 614.298.2000

PROHIBITED CONSTRUCTION ACTIVITIES

DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.

LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS.

INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAMS OR STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.

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.

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.

DISPOSING OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDOR, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.

OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.

DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, DRILLING, 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.

STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES.

RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER.

OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 AM AND 5:00 PM OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS.

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

UTILITY LIST

COLUMBIA GAS OF OHIO
290 W NATIONWIDE BLVD
COLUMBUS, OH 43215
CONTACT: BEN CUTLER
EMAIL: Bcutler@nisource.com
PHONE: 216-215-4103

FIRSTENERGY
730 SOUTH AVENUE
YOUNGSTOWN, OH 44502
CONTACT: SAMUEL ARISMAN
EMAIL: sarisman@girstenergycorp.com
PHONE: 330-740-7506 EXT. 896-7506

VILLAGE OF LEETONIA WATER & WASTEWATER
300 EAST MAIN STREET
LEETONIA, OH 44431-1197
CONTACT: BRANDON FRENCH
EMAIL: wastewater@leetonia.org
PHONE: 330-427-8087 EXT. 201

OHIO ENVIRONMENTAL PROTECTION AGENCY
50 W. TOWN STREET
SUITE 700
COLUMBUS, OH 43215
CONTACT: WESLEY SLUGA
EMAIL: Wesley.Sluga@epa.ohio.gov
PHONE: 614-644-2141

COMCAST

LEVEL 3 COMMUNICATIONS

AT&T
CONTACT: B J SMITH
PHONE: 614-619-5688

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GENERAL NOTES

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HERBERT ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
724.778.4777 | hrginc.com



SCALE:	AS SHOWN
DATE:	JULY 14, 2026
JOB NO:	R007307.0430
DESIGN:	BJH
DRAWN:	KMV
CHECKED:	DSM
SHEET NO.	4 OF 19

ITEM SPECIAL – LANDSCAPE STRIP

THIS WORK CONSISTS OF RECONSTRUCTING THE EXISTING GRASS STRIP FOLLOWING SIDEWALK AND CURB REPLACEMENT ACCORDING TO SECTIONS 653, AND 659. CONTRACTOR TO REMOVE DAMAGED GRASS STRIP AREAS, BACKFILL WITH TOPSOIL, SEED TO MATCH EXISTING GRASS VARIETY AND WATER TO ESTABLISH GRASS COVER.

ITEM SPECIAL – BRICK WALK

THIS WORK SHALL CONSIST OF PLACEMENT OF THE REMOVED BRICKS IN THE AREAS OF THE PROPOSED DECORATIVE BRICK SIDEWALK AREA BETWEEN TO THE PROPOSED CONCRETE WALK AND REPLACED SIDEWALK. REMOVE THE EXISTING CONCRETE WALK PER THE BID ITEM TO AN APPROPRIATE DEPTH FOR THE WIDTH OF THE PROPOSED CONCRETE WALK AND BRICK WALK. AFTER PROPOSED CURB IS CONSTRUCTED, PLACE AGGREGATE BASE BENEATH CONCRETE WALK CONCURRENTLY AND COMPACT. ONCE CONCRETE WALK HAS BEEN INSTALLED AND CURED APPROPRIATELY, PLACE SAND LEVELING BED. INSTALL THE BRICK MATCHING CONCRETE WALK AND CURB ELEVATION. ONCE BRICK IS IN PLACE, FILL GAPS IN BRICK WITH SAND AND SWEEP EXCESS. SEAL JOINT BETWEEN BRICK AND CURB AND BRICK AND PAVEMENT.

ITEM SPECIAL – BRICK CROSSWALK

THIS WORK SHALL CONSIST OF PLACEMENT OF THE REMOVED BRICKS IN THE AREAS OF THE PROPOSED CROSSWALKS TO A WIDTH OF 8’ FLUSH WITH THE ADJACENT TOP OF WEARING COURSE. REMOVE THE EXISTING PAVEMENT TO THE DEPTH OF THE BRICK AND SAND LEVELING BED AFTER THE SURROUNDING PAVEMENT HAS BEEN REMOVED. PLACE THE SAND LEVELING BED AND COMPACT ACCORDING TO MANUFACTURERS SPECIFICATIONS. INSTALL THE BRICK FLUSH WITH THE ADJACENT TOP OF WEARING COURSE. ONCE THE BRICK IS IN PLACE, FILL GAPS IN BRICK WITH SAND AND SWEEP EXCESS. SEAL JOINT BETWEEN BRICK AND CURB AND BRICK AND PAVEMENT.

ITEM SPECIAL – BRICK PAVEMENT REMOVED

THIS WORK SHALL CONSIST OF REMOVING THE EXISTING BRICK PAVEMENT ALONG MAIN STREET BETWEEN OAK STREET AND ELM STREET FOR USE IN OTHER ASPECTS OF THE PROJECT. CAREFULLY REMOVE THE EXISTING BRICK FROM THE ROADWAY, KEEPING ON SITE. THE SUBGRADE MATERIAL BENEATH THE EXISTING BRICK PAVEMENT SHALL BE ROLLED (AND PLANED IF NECESSARY) PRIOR TO PLACEMENT OF THE NON TRACKING TACK COAT, INTERMEDIATE COURSE AND SURFACE COURSE. ANY BRICKS DAMAGED DURING REMOVAL OR SHOW SIGNIFICANT DETERIORATION SHALL BE REPLACED WITH BRICK OF SIMILAR SIZE AND COLOR. THIS ITEM ASSUMES THAT 25% OF BRICKS WILL NEED TO BE REPLACED UNDER THE COST OF THIS ITEM. THE SIZE AND COLOR OF THE REPLACEMENT BRICKS IS TO BE APPROVED BY THE VILLAGE AND THE ENGINEER.

ITEM SPECIAL – ABANDON EXISTING SIDEWALK VAULTS, COAL CHUTES

THIS WORK SHALL CONSIST OF ABANDONING, PARTIALLY REMOVE, AND BACKFILL EXISTING SIDEWALK VAULTS AND COAL CHUTES AS INDICATED IN THE CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE 72 HOURS WRITTEN NOTICE OF THE INTENDED WORK SCHEDULE TO THE OWNER/OCCUPANT. ALL UTILITIES LOCATED WITHIN THE VAULT OR COAL CHUTES SHALL BE REMOVED FROM SERVICE OR RELOCATED BY THE OWNER PRIOR TO BEGINNING ANY WORK. THE VILLAGE IS RESPONSIBLE FOR COORDINATING THIS WORK WITH ALL UTILITY COMPANIES AND THE INDIVIDUAL PROPERTY OWNER/OCCUPANT. DURING OPERATIONS, THE CONTRACTOR SHALL PREVENT ANY UNAUTHORIZED ENTRY INTO THE WORK SITE.

THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO THE BUILDING AT ALL TIMES DURING THEIR OPERATIONS AS INDICATED IN THE CONTRACT PLANS OR TO THE SATISFACTION OF THE OWNER OR ENGINEER.

THE CONTRACTOR SHALL REMOVE EXISTING ROOF SLAB, ENTRANCE HATCH, SUPPORT BEAMS, GRATING, ETC. AS INDICATED IN THE CONTRACT PLANS. EXISTING WALLS SHALL BE REMOVED TO A DEPTH OF 3.0 FEET BELOW THE FINISHED GRADE FOR THE NEW SIDEWALK. EXISTING FLOORS SHALL BE BROKEN INTO PIECES NO LARGER THAN 12 INCHES BY 24 INCHES. THE CONTRACTOR SHALL CONSTRUCT A CONCRETE BLOCK WALL TO CLOSE THE OPENING IN BUILDING FOUNDATION. THIS WALL SHALL BE CONSTRUCTED TO THE SIZE AND IN THE MANNER INDICATED IN THE CONTRACTOR’S SHOP DRAWINGS. THE CONTRACTOR SHALL REMOVE EXISTING DOORS, WINDOWS, FRAMING AND ALL UNSOUND MATERIAL PRIOR TO INSTALLATION OF THE WALL. DOWELS SHALL BE DRILLED AND GROUTED INTO THE EXISTING SOUND BUILDING FOUNDATION. BLOCKS SHALL BE LAID IN A RUNNING BOND PATTERN. WALL REINFORCING SHALL BE AS INDICATED IN THE CONTRACTOR’S APPROVED SHOP DRAWINGS.

EXPOSED WALLS OF THE EXISTING BUILDING FOUNDATION AS WELL AS THE NEW CONCRETE BLOCK WALL SHALL BE COATED WITH 0.5” OF MORTAR. EXISTING FOUNDATION WALLS SHALL BE THOROUGHLY CLEANED, TO THE SATISFACTION OF THE ENGINEER PRIOR TO COATING. ONCE THE MORTAR HAS CURED, THE ENTIRE EXPOSED SURFACE OF THE FOUNDATION SHALL BE COATED WITH A WATERPROOFING MATERIAL. THIS MATERIAL SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER’S RECOMMENDATIONS.

EXISTING SIDEWALK CONCRETE DEBRIS SHALL BE CRUSHED TO AN AGGREGATE WITH A RANGE OF DIAMETER BETWEEN 1/8” TO 1/4”. BACKFILL OF THE VAULT OF COAL CHUTE WITH THE AGGREGATE MATERIAL AND COMPACTED IN 6” LIFTS UNTIL MATERIAL NO LONGER SETTLES. PLACE AGGREGATE BASE PER THE CONCRETE WALK DETAIL AND COMPACT TO LEVEL TO PREPARE FOR CONCRETE WALK INSTALLATION.

SPECIAL ITEM PAYMENT

PAYMENT FOR EACH SPECIAL ITEM LISTED ABOVE TO FOLLOW ITEM DESCRIPTION AS LISTED ABOVE AND UNIT AS LISTED ON THE QUANTITIES TABLE.

LANDSCAPE NOTES

TREES GREATER THAN OR EQUAL TO 3–INCHES IN DIAMETER BEING REMOVED SHOULD ONLY BE REMOVED BETWEEN OCTOBER 1 AND MARCH 31.

EROSION AND SEDIMENT CONTROL NOTES

CONTRACTOR IS RESPONSIBLE FOR OBTAINING THEIR OWN NPDES IN ADDITION TO THE ONE ISSUED TO CLIENT.

AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE OHIO ONE CALL SYSTEM INCORPORATED AT 1–800–362–2764 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.

CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

BEST MANAGEMENT PRACTICES (BMP’S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL.

PROVIDE A CONCRETE WASHOUT FACILITY FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES UNLESS SUCH A FACILITY WILL BE USED AT THE SOURCE OF THE CONCRETE. UNDER NO CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS. WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS. PROVIDE PROPER SIGNAGE SO THAT DRIVERS ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES.

PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. DEBRIS AND/OR SEDIMENT REACHING THE MAIN ROADWAY SHALL BE CLEANED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.

AS CONSTRUCTION PROGRESSES, CONTRACTOR IS RESPONSIBLE FOR RELOCATING EROSION CONTROL DEVICES. THE DEVICES SHOWN ON THIS PLAN ARE THE INITIAL DEVICES FOR THE START OF CONSTRUCTION.

THE TOTAL TRENCH OPEN IN ONE DAY SHALL BE LIMITED TO THE LENGTH OF TRENCH THAT CAN BE EXCAVATED, PIPE INSTALLED, AND BACKFILLED UP TO GRADE. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. ANY GROUNDWATER ENCOUNTERED DURING EXCAVATION SHALL BE PUMPED THROUGH A FILTER BAG PRIOR TO DISCHARGING.

FIELD–MARK THE LIMITS OF DISTURBANCE AND ESTABLISH SURVEY BENCHMARKS AND REFERENCE POINTS.

ALL SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO STARTING CONSTRUCTION.

CLEARING AND GRUBBING SHALL COMMENCE WHEN THE CONTRACTOR IS PREPARED TO START CONSTRUCTION.

DEMOLITION AND PROPERLY DISPOSE OF WASTES ACCORDING TO OHIO EPA LAWS AND REGULATIONS

INSTALL SITE IMPROVEMENTS IN ACCORDANCE WITH THE PLANS.

ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT, ETC.) SHALL BE DETAILED AND PROPERLY CONTAINED.

SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN–UP FUEL OR CHEMICAL SPILLS AND LEAKS.

DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

ALL DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE, MUST BE STABILIZED TEMPORARILY WITHIN 7 DAYS WITH THE USE OF FAST–GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAW/HAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING OR BLANKETS AS SHOWN ON SITE MAP.

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY IS COMPLETED OR IS AT FINAL GRADE SHALL BE PERMANENTLY STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE EROSION CONTROL PLAN.

PERMANENT SOIL STABILIZATION OF DISTURBED AREAS BY MEANS OF VEGETATION, LANDSCAPE TYPE MULCHING, MATTING, SOD, RIP RAP, AND OTHER APPROVED LANDSCAPING TECHNIQUES TO BE APPLIED AS FOLLOWS: WITHIN SEVEN (7) DAYS OF ANY AREA THAT WILL BE DORMANT FOR ONE (1) YEAR OR WITHIN TWO (2) DAYS OF ANY AREA WITHIN 50 FEET OF A STREAM AT FINAL GRADE WITHIN SEVEN (7) DAYS FOR ANY OTHER AREA AT FINAL GRADE.

CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.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 CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT EROSION AND POLLUTANT DISCHARGE.

GENERAL CONTRACTOR IS TO DESIGNATE/IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL, DELIVERY AND MATERIAL STORAGE.

FLAMMABLE AND COMBUSTIBLE LIQUIDS WILL BE STORED AND HANDLED ACCORDING TO 29 CFR 1926.152 ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF 25 GALLONS SHALL BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1–800–424–8802) AND

OHIO EPA EMERGENCY RESPONSE 24 HOUR HOTLINE (800) 282–9378

IF WORK IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROLS IN GOOD OPERATING CONDITION DURING THE SUSPENSION OF THE WORK. ALSO, WHEN SEASONAL CONDITIONS PERMIT AND THE SUSPENSION OF WORK IS EXPECTED TO EXCEED A PERIOD OF ONE MONTH, THE CONTRACTOR SHALL PLACE TOPSOIL, FINE GRADE, SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS LEFT EXPOSED WHEN WORK IS STOPPED, AS SPECIFIED HEREIN.

SILT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO ENTER THE STORM SEWER SYSTEM. WHEN CONSTRUCTION OCCURS NEAR STORM SEWER INLETS, EROSION CONTROL MEASURES SUCH AS INLET FILTERS AND STRAW BALES SHALL BE USED TO PREVENT SILT FROM ENTERING THE STORM SEWERS. IF DEWATERING IS NECESSARY, FLOWS SHOULD BE FILTERED BEFORE ENTERING STORM DRAINS OR STREAMS.

MAINTENANCE

ALL E&S FACILITIES MUST BE INSPECTED WEEKLY AND AFTER EACH PRECIPITATION EVENT. ALL FACILITIES THAT ARE DAMAGED, CLOGGED, OR CAN NO LONGER PERFORM AS DESIGNED, SHALL BE REPLACED. REFER TO DETAILS ON THE PLANS FOR SPECIFIC MAINTENANCE METHODS FOR EACH SEDIMENT–TRAPPING DEVICE.

ALL SEDIMENT REMOVED FROM SEDIMENT TRAPPING DEVICES SHALL BE DISPOSED OF IN A MANNER THAT WILL NOT CAUSE EROSION OR SEDIMENTATION AND SHALL BE PLACED IN AN AREA WITHIN THE DEFINED LIMITS OF DISTURBANCE.

ANY PERMANENT SEEDED AREAS THAT BECOME ERODED OR DISTURBED SHALL HAVE THE TOPSOIL REPLACED, THE GRASS RESEEDED, AND THE MULCH REAPPLIED, OR AT THE DISCRETION OF THE OWNER, SOD MAY BE INSTALLED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF E&S CONTROLS UNTIL THE SITE IS STABILIZED. PERMANENT STABILIZATION IS DEFINED, AS ”A UNIFORM 80% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED”, OR THE DISTURBED AREA IS COVERED WITH AN ACCEPTABLE GMP, WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION. UNTIL SUCH TIME AS THIS STANDARD IS ACHIEVED, INTERIM STABILIZATION MEASURES AND TEMPORARY E&S CONTROL BMP’S THAT ARE USED TO TREAT PROJECT RUNOFF MAY NOT BE REMOVED.

CLEAN FILL

IF THE SITE WILL HAVE EXCESS FILL THAT WILL NEED TO BE EXPORTED TO AN OFF SITE LOCATION, THE RESPONSIBILITY OF CLEAN FILL DETERMINATION AND ENVIRONMENTAL DUE DILIGENCE RESTS ON THE APPLICANT. IF ALL CUT AND FILL MATERIALS WILL BE USED ON THE SITE, A CLEAN FILL DETERMINATION IS NOT REQUIRED BY THE OPERATOR UNLESS THERE IS A BELIEF THAT A SPILL OR RELEASE OF A REGULATED SUBSTANCE OCCURRED ON THE SITE.

ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH OEPA CLEAN FILL POLICY.

CLEAN FILL IS DEFINED AS UNCONTAMINATED, NON–WATER SOLUBLE, NON–DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT (NOT INCLUDING MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE–USE), AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON RECEIVING WATERS UNLESS OTHERWISE AUTHORIZED.

ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS, ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTIONS AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE.

FILL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH OEPA’S MUNICIPAL OR RESIDENTIAL WASTE REGULATIONS.

RECYCLING & DISPOSAL

PROCEDURES, WHICH ENSURE THAT THE PROPER MEASURES FOR THE RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE, WILL BE UNDERTAKEN. INDIVIDUALS RESPONSIBLE FOR EACH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY, THE CONTRACTOR SHALL PLAN AND IMPLEMENT MEASURES FOR HOUSEKEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL DURING CONSTRUCTION. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL. DISPOSAL OF CONSTRUCTION WASTES SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

GENERAL NOTES

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STREETSCAPE

COLUMBIANA COUNTY, OHIO

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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. It is required that the length of closure be kept to a minimum at all times, as directed by the Engineer, with a maximum allowable length of 9000’.

When the ambient temperature exceeds 80 degrees Fahrenheit the Engineer may increase the maximum allowable length of closure to allow for sufficient cooling of new pavement.

The Engineer may shorten the maximum allowable length of closure to relieve excessive traffic backups or to improve traffic operation.

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 or END ROAD WORK 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.

CONES

- 8A. Cone spacing shall be as follows:

- a) Spacing along the buffer and along the work space (entire closed length beyond the buffer) shall be 40’ center-to-center.
b) Spacing along the approach taper shall be 10’ center-to-center.

- 8B. Cone sizes shall be 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”.

- 8C. Provisions shall be made to stabilize the cones to prevent them from blowing over.

- 8D. A minimum of two cones 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.

- 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 cones or barricades, and/or
b) Provide an additional flagger at every public street intersection and major driveway.

Cones placed across the closed lane shall be located 25’ beyond the projected pavement edges of the driveway or cross highway. For barricades, see Standard Construction Drawing 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.

CHIP SEAL OPERATIONS

12. For chip seal operations, additional signing shall be incorporated in accordance with CMS 422.09.

THIS DRAWING REPLACES MT-97.12 DATED 07-18-2014.

SCD NUMBER		STANDARD ROADWAY CONSTRUCTION DRAWING		STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR		REVISION DATE	
MT - 97.12		FLAGGER CLOSING 1 LANE OF A 2-LANE HIGHWAY FOR PAVING OPERATIONS (FED)		David L. Holstein		01-20-2017	
2 / 2		OFFICE OF ROADWAY ENGINEERING		STDS. ENGINEER		Soisson	
		MAINTENANCE OF TRAFFIC NOTES					
		VILLAGE OF LEETONIA STREETSCAPE					
		COLUMBIANA COUNTY, OHIO					
		 HERBERT, ROWLAND & GRUBIC, INC. 220 WEST KENSINGER DRIVE SUITE 100 CRANBURY TOWNSHIP, PA 16066 724.778.4777 hrginc.com					
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		DRAWN: KMV					
		CHECKED: DSM					
		SHEET NO. 7 OF 19					

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SHEET NUMBER																	PART.		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION		SEE SHEET NO.
	9	10		16	17		18	19	L.1	L.2	L.3	L.4	UT2	UT3	UT4	UT5	01/ENH	02/S5K						DATE: JULY 2026	
																							ROADWAY		
	3																3		201	21800	3	EACH	TREE REMOVED, 18" DIAMETER		
	4																4		201	23000	4	EACH	TREE REMOVED, 30" DIAMETER		
	1144	1192															2336		202	32000	2336	LF	CURB REMOVED		
	7420	11128															18548		202	30000	18548	SF	WALK REMOVED		
	18																18		202	30200	18	FT	STEPS REMOVED		
	878	2619															3497		202	23500	3497	SY	WEARING COURSE REMOVED		
	383	262															645		407	20000	645	GAL	NON-TRACKING TACK COAT		
	102	109															211		441	10000	211	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22		
	102																102		441	10200	102	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)		
	8546	10560															19106		608E	10000	19106	SF	4" CONCRETE WALK,		
	18																18		608	40000	18	FT	CONCRETE STEPS, TYPE A		
	780	780															1560		608	52000	1560	SF	CURB RAMP		
	1144	1192															2336		609	26000	2336	LF	CURB, TYPE 6		
																	1		832	30000	1	EACH	EROSION CONTROL		
	2866	549															3415		SPECIAL	00001	3415	SY	SPECIAL - LANDSCAPE STRIP	5	
	1479	1132															2611		SPECIAL	00002	2611	SF	SPECIAL - BRICK WALK	5	
	840	1176															2016		SPECIAL	00003	2016	SF	SPECIAL - BRICK CROSSWALK	5	
	296	296															592		SPECIAL	00004	592	SY	SPECIAL - BRICK PAVEMENT REMOVED	5	
	2	2															4		SPECIAL	00005	4	EACH	SPECIAL - ABANDON EXISTING SIDEWALK VAULTS, COAL CHUTES	5	
									12	4	6	7					29		SPECIAL	00006	29	EACH	SPECIAL - TREE		
									22	35	45	15					117		SPECIAL	00007	117	EACH	SPECIAL - SHRUB		
										128	235	465					828		SPECIAL	00008	828	EACH	SPECIAL - GROUNDCOVER		
										20	55	65					140		SPECIAL	00009	140	CY	SPECIAL - STRUCTURAL SOILS		
																							DRAINAGE		
				34	42												76		611	05900	76	LF	15" CONDUIT, TYPE B		
				4	3												7		611	98370	7	EACH	CATCH BASIN, NO. 6		
				4	2												6		611	99661	6	EACH	MANHOLE RECONSTRUCTED TO GRADE		
																							SIGNAGE AND PAVEMENT MARKING		
							1	10									11		630	84900	11	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		
							2	4									6		630	85100	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION		
							1	10									11		630	86002	11	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		
							10	25									35		630	81100	35	SF	SIGN ERECTED, FLAT SHEET		
							344	264									608		644	01200	608	LF	PARKING STALL MARKING		
							217	356									573		644	00620	573	LF	CROSSWALK LINE, 12", TYPE I		
							24	24									48		644	00500	48	LF	STOP LINE, TYPE I		
							0.22	0.19									0.41		644	00300	0.41	MILE	CENTER LINE, TYPE I		
							6	6									12		644	19000	12	EACH	SHARED LANE MARKING, TYPE 1		
																							LIGHTING		
												360					360		611	00400	360	FT	4" CONDUIT, TYPE E		
												62					62		625	00450	62	EACH	CONNECTION, FUSED PULL APART		
												54					54		625	00480	54	EACH	CONNECTION, UNFUSED PERMANENT		
												21					21		625	10481	21	EACH	LIGHT POLE, DECORATIVE, AS PER PLAN , 14'		
												10					10		625	10481	10	EACH	LIGHT POLE, DECORATIVE, AS PER PLAN , 22'		
												31					31		625	14000	31	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP		
												10479					10479		625	23200	10479	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE		
												1112					1112		625	23400	1112	FT	NO. 10 AWG POLE AND BRACKET CABLE		
												2708					2708		625	25500	2708	FT	CONDUIT, 3", 725.04		
												285					285		625	25902	285	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"		
												31					31		625	27550	31	EACH	LUMINAIRE, DECORATIVE		
												2708					2708		625	29000	2708	FT	TRENCH		
												10					10		625	30700	10	EACH	PULL BOX, 725.08, 18"		
												8					8		625	30706	8	EACH	PULL BOX, 725.08, 24"		
												31					31		625	32000	31	EACH	GROUND ROD		
												2708					2708		625	36010	2708	FT	UNDERGROUND WARNING/MARKING TAPE		
												8					8		625	75506	8	EACH	LUMINAIRE REMOVED		
												8					8		625	75520	8	EACH	LUMINAIRE SUPPORT REMOVED		
																							INCIDENTALS		
																	1		614	11000	1	LS	MAINTAINING TRAFFIC		
																	3		619	16000	3	MNTH	FIELD OFFICE, TYPE A		
																	1		623	10000	1	LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING		
																	1		624	10000	1	LS	MOBILIZATION		
																							UTILITES		
													297.5	311.6	313.7	316.4		1239.2	638E	01200	1239.2	FT	WATER LINE		
												1					4		638E	01200	4	EACH	DUCTILE IRON TEE		
																			638E	10200	2	EACH	FIRE HYDRANT		
																			638E	07480	2	EACH	GATE VALVE		
												5	6	7	12		30		638E	11200	30	EACH	METER PIT		
												215.3	423.6	432.6	416.2		1487.7		611E	06700	1487.7	FT	SANITARY SEWER LINE		
												1	2	2	1		6		611E	99550	6	EACH	SANITARY SEWER MANHOLE		
												1					2		611E	99690	2	EACH	CONNECTION TO EXISTING MANHOLE		
																	1		SPECIAL	00010	1	EACH	BOTTLE FILLER (COMPLETE)		

GENERAL SUMMARY

HERBERT ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
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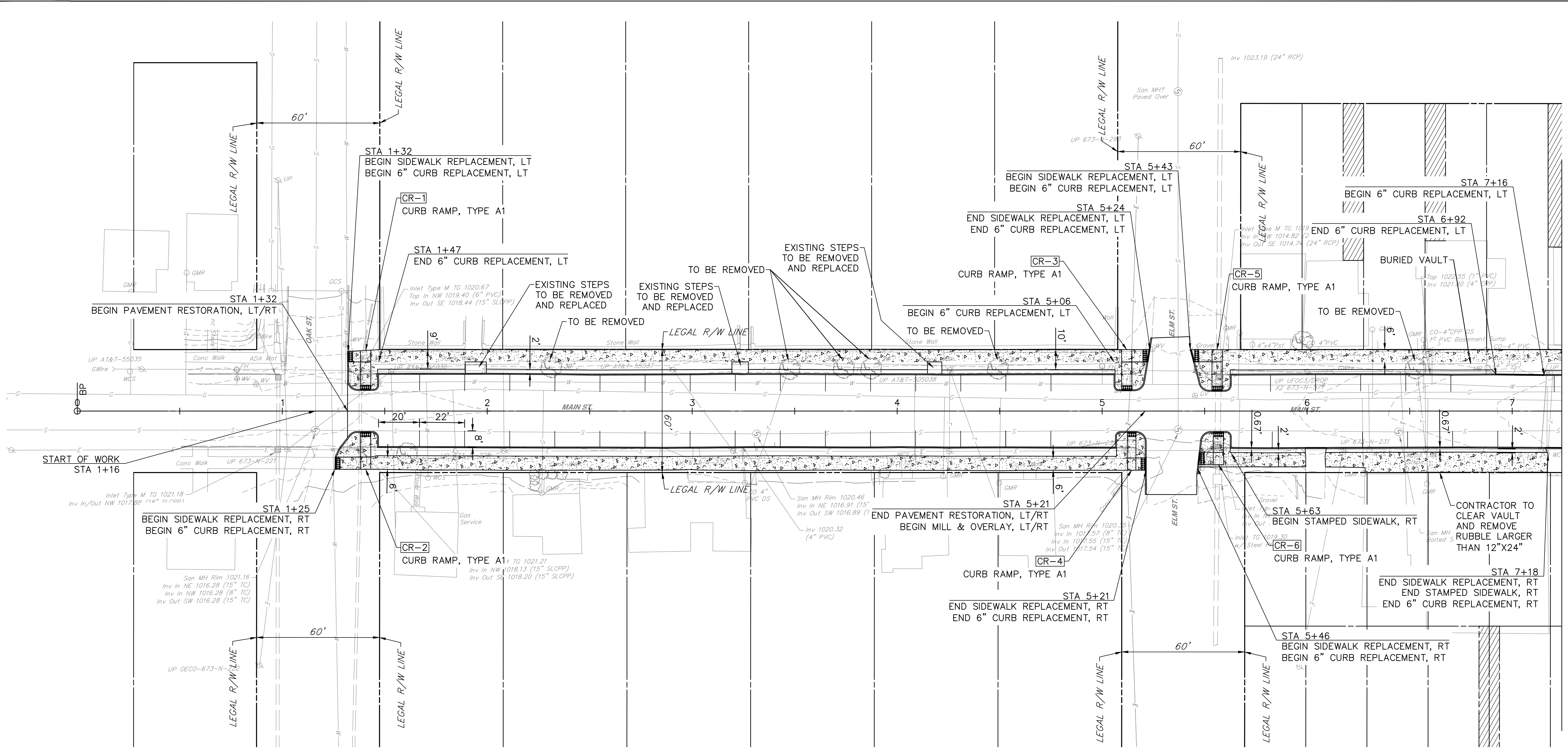
SCALE:
AS SHOWN
DATE: JULY 14, 2026
JOB NO: R007307.0430
DESIGN: BJH
DRAWN: KMV
CHECKED: DSM
SHEET NO.
8 OF 19

GENERALSUMMARY

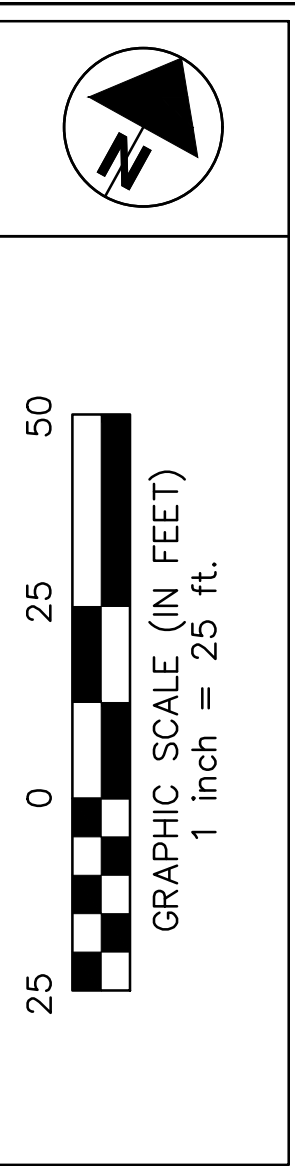
VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

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Jul 16, 2026 - 8:57am
chatten



CONTINUED ON SHEET 10



SIDEWALK PLAN

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

REF NO.	STATION		SIDE	201		202			407	441		608			609	SPECIAL	SPECIAL	SPECIAL	SPECIAL	SPECIAL
				TREE REMOVED, 18" DIAMETER	TREE REMOVED, 30" DIAMETER	CURB REMOVED	STEPS REMOVED	WEARING COURSE REMOVED	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (446), PG64-22	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (446)	4" CONCRETE WALK	CONCRETE STEPS, TYPE A	CURB RAMPS	CURB, TYPE 6	LANDSCAPING STRIP	BRICK WALK	BRICK CROSSWALK	BRICK PAVEMENT REMOVED	ABANDON EXISTING SIDEWALK VAULTS, COAL CHUTES
	MAIN STREET			EACH	EACH	LF	LF	SY	GAL	CY	CY	SF	SF	SF	LF	SY	SF	SF	SY	EACH
	FROM	TO																		
	1+16	7+24	LT	2	3	618	18					4382	18	390	618	1326	200	160	1	
			RT	1	1	526						4164		390	526	1540	1279	200	1	
			CL					878	383	211	102						480	296		
TOTALS CARRIED TO GENERAL SUMMARY				3	4	1144	18	878	383	211	102	8546	18	780	1144	2866	1479	840	296	2

DENOTES CONCRETE SIDEWALK

DENOTES CONSTRUCTION ACCESS EASEMENT (ELECTRIC SERVICE RELOCATION)

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
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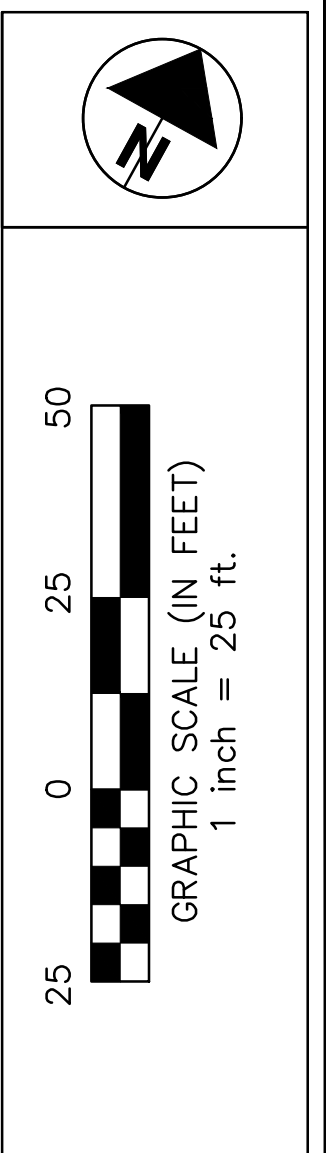
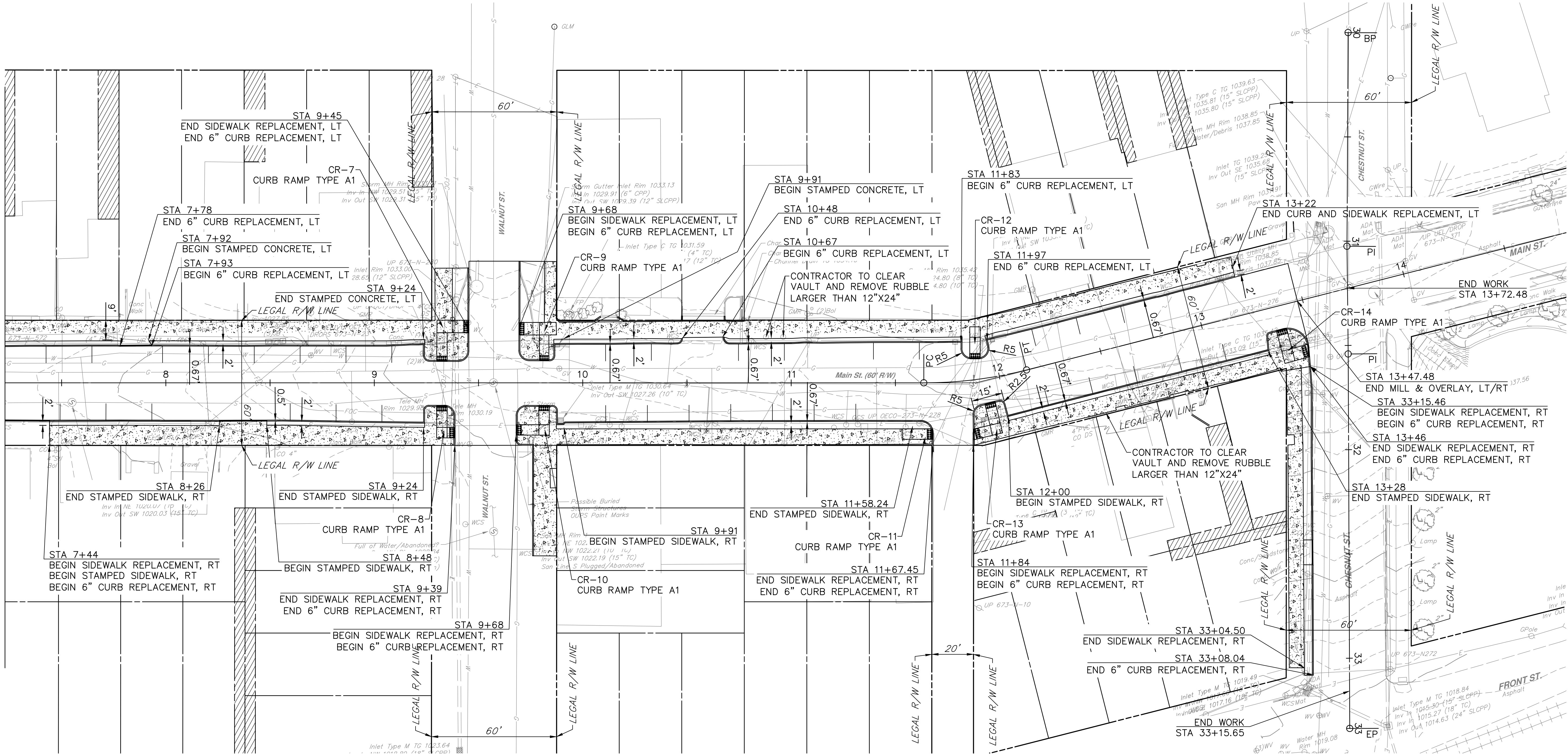
SCALE:
AS SHOWN
DATE: JULY 14, 2026
JOB NO: R007307.0430
DESIGN: BJH
DRAWN: KMW
CHECKED: DSM
SHEET NO.
9 OF 19

CONTINUED ON SHEET 9

chatten

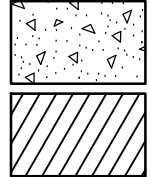
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SIDEWALK PLAN
VILLAGE OF LEETONIA
STREETSCAPE
COLUMBIANA COUNTY, OHIO

REF NO.	STATION		SIDE	201		202			407	441		608			609	SPECIAL	SPECIAL	SPECIAL	SPECIAL	SPECIAL
				TREE REMOVED, 18" DIAMETER	TREE REMOVED, 30" DIAMETER	CURB REMOVED	STEPS REMOVED	WEARING COURSE REMOVED	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (446), PG64-22	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (446)	4" CONCRETE WALK	CONCRETE STEPS, TYPE A	CURB RAMPS	CURB, TYPE 6	LANDSCAPING STRIP	BRICK WALK	BRICK CROSSWALK	BRICK PAVEMENT REMOVED	ABANDON EXISTING SIDEWALK VAULTS, COAL CHUTES
	MAIN STREET	EACH		EACH	LF	LF	SY	GAL	CY	CY	SF	SF	SF	LF	SY	SF	SF	SY	EACH	
	FROM	TO																		
	7+24	13+72.28	LT			606						5062		390	606		881	192	1	
			RT			586						4940		390	586		209	240	1	
			CL					2619	262	109							744	296		
	CHESTNUT STREET																			
	FROM	TO																		
	31+60.77	33+15.65	LT												549					
			RT													42				
			CL																	
TOTALS CARRIED TO GENERAL SUMMARY				0	0	1192	0	2619	262	109	0	10002	0	780	1192	549	1132	1176	296	2



DENOTES CONCRETE SIDEWALK

DENOTES CONSTRUCTION ACCESS EASEMENT (ELECTRIC SERVICE RELOCATION)

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
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SCALE:
AS SHOWN

DATE: JULY 14, 2026

JOB NO: R007307.0430

DESIGN: BJH

DRAWN: KMW

CHECKED: DSM

SHEET NO.
10 OF 19

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Jul 16, 2026-8:57am
chatten

LEGEND

SLOPE (DOWN)

DETECTABLE WARNING SURFACE—
AS PER RC-67M

x

1234.56

BOTTOM OF CURB ELEVATION

DEPRESSED CURB

SCALE

ADA RAMP DETAILS

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HRG

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
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SCALE: AS SHOWN	
DATE:	JULY 14, 2026
JOB NO:	R007307.0430
DESIGN:	BJH
DRAWN:	KMV
CHECKED:	DSM
SHEET NO. 11 OF 19	

10
0
5
10

GRAPHIC SCALE (IN FEET)
1 inch = 5 ft.

N

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Jul 16, 2026 - 8:53am
chatten

LEGEND

SLOPE (DOWN)

DETECTABLE WARNING SURFACE—
AS PER RC-67M

x

1234.56

BOTTOM OF CURB ELEVATION

DEPRESSED CURB

SCALE

UP UFOCI/DROP

4"CO DS

1031.91

1031.94

16.79'

-0.72%

-0.70%

-0.69%

1032.37

5.98'

1032.33

1031.86

-0.72%

10.41'

1031.90

-5.85%

13.7'

CR-7

1031.56

-3.65%

5'

1031.74

WALNUT ST.

1032.90

9.84'

1032.65

1032.70

6'

-2.31%

-3.11%

-1.50%

1032.56

-0.94%

1032.61

-3.82%

12.42'

CR-9

1032.76

1032.62

0.44%

4.5'

1032.62

R2.5

10

Main St. (60' R/W)

1030.72

5'

-3.24%

1030.88

2.68'

-2.28%

1029.98

-1.50%

3.75'

1030.36

CR-8

1030.06

-1.50%

-3.25%

5'

1029.91

1030.19

1031.73

5'

-0.51%

1031.75

2.5'

CR-10

1030.90

-5.08%

-0.41%

1030.92

6.88'

1030.83

1030.85

10.92'

-2.44%

-1.50%

1030.87

-5.95%

5'

R2.5

4"x4" Pst

FFE 1032.05
General Store

Inlet Type M TG 1030.64
Inv Out SW 1027.26 (10" TC)

GCS

MB

N

10
0
5
10

GRAPHIC SCALE (IN FEET)
1 inch = 5 ft.

ADA RAMP DETAILS

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.

220 WEST KENSINGER DRIVE

SUITE 100

CRANBURY TOWNSHIP, PA 16066

724.778.4777 | hrginc.com

HRG

SCALE:
AS SHOWN

DATE: JULY 14, 2026

JOB NO: R007307.0430

DESIGN: BJH

DRAWN: KMV

CHECKED: DSM

SHEET NO.
13 OF 19

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Jul 16, 2026-8:56am
chatten

LEGEND

SLOPE (DOWN)

DETECTABLE WARNING SURFACE—
AS PER RC-67M

x

1234.56

BOTTOM OF CURB ELEVATION

DEPRESSED CURB

SCALE

ADA RAMP DETAILS

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HRG

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220 WEST KENSINGER DRIVE
SUITE 100
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SCALE:
AS SHOWN

DATE: JULY 14, 2026

JOB NO: R007307.0430

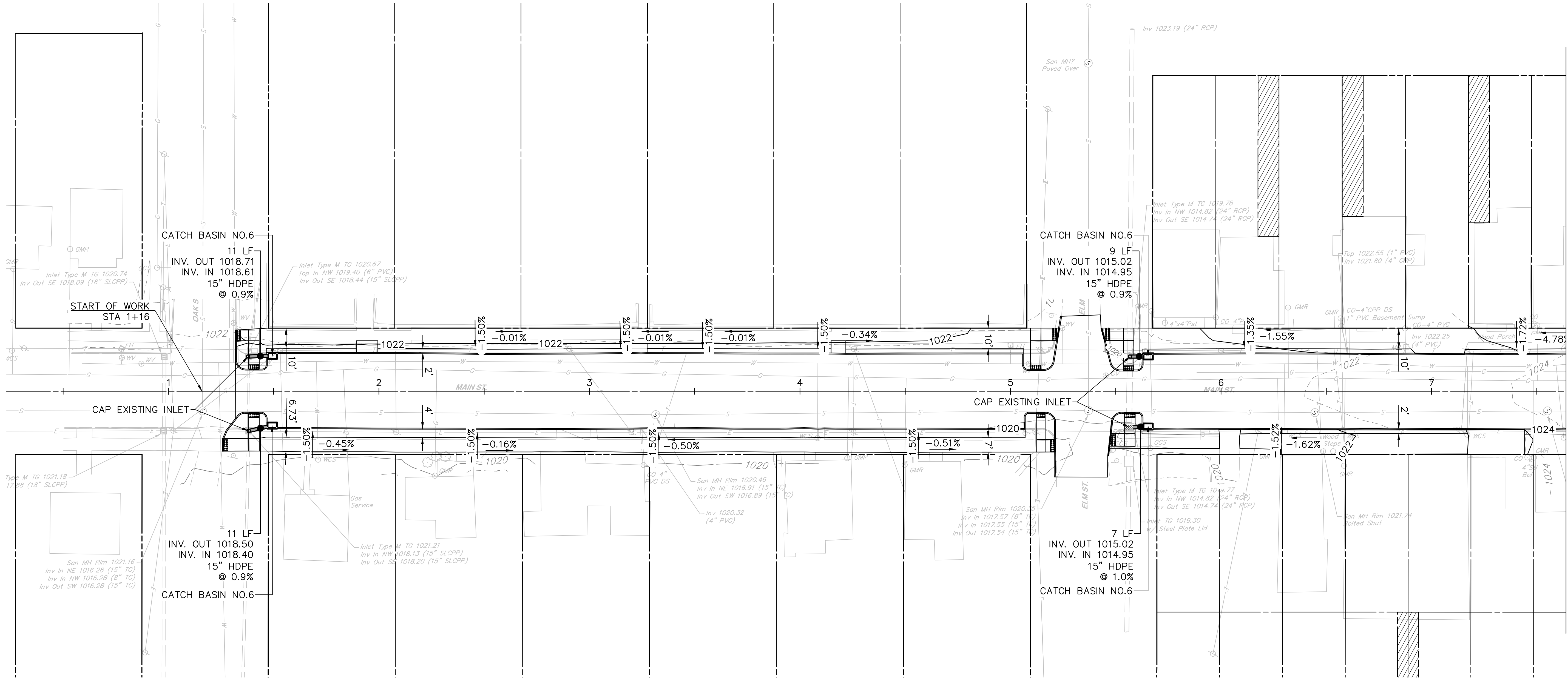
DESIGN: BJH

DRAWN: KMW

CHECKED: DSM

SHEET NO.
14 OF 19

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Jul 16, 2026-9:00am



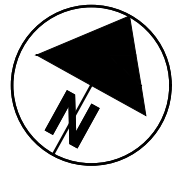
CONTINUED ON SHEET 17

REF NO.	STATION		SIDE	611	611	611
				15" CONDUIT, TYPE B	CATCH BASIN NO. 6	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN
	FROM	TO		LF	EACH	EACH
	1+16	7+63.9	LT	17	2	
			RT	17	2	
			CL			4
TOTALS CARRIED TO GENERAL SUMMARY				34	4	4

GRADING AND DRAINAGE PLAN

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO



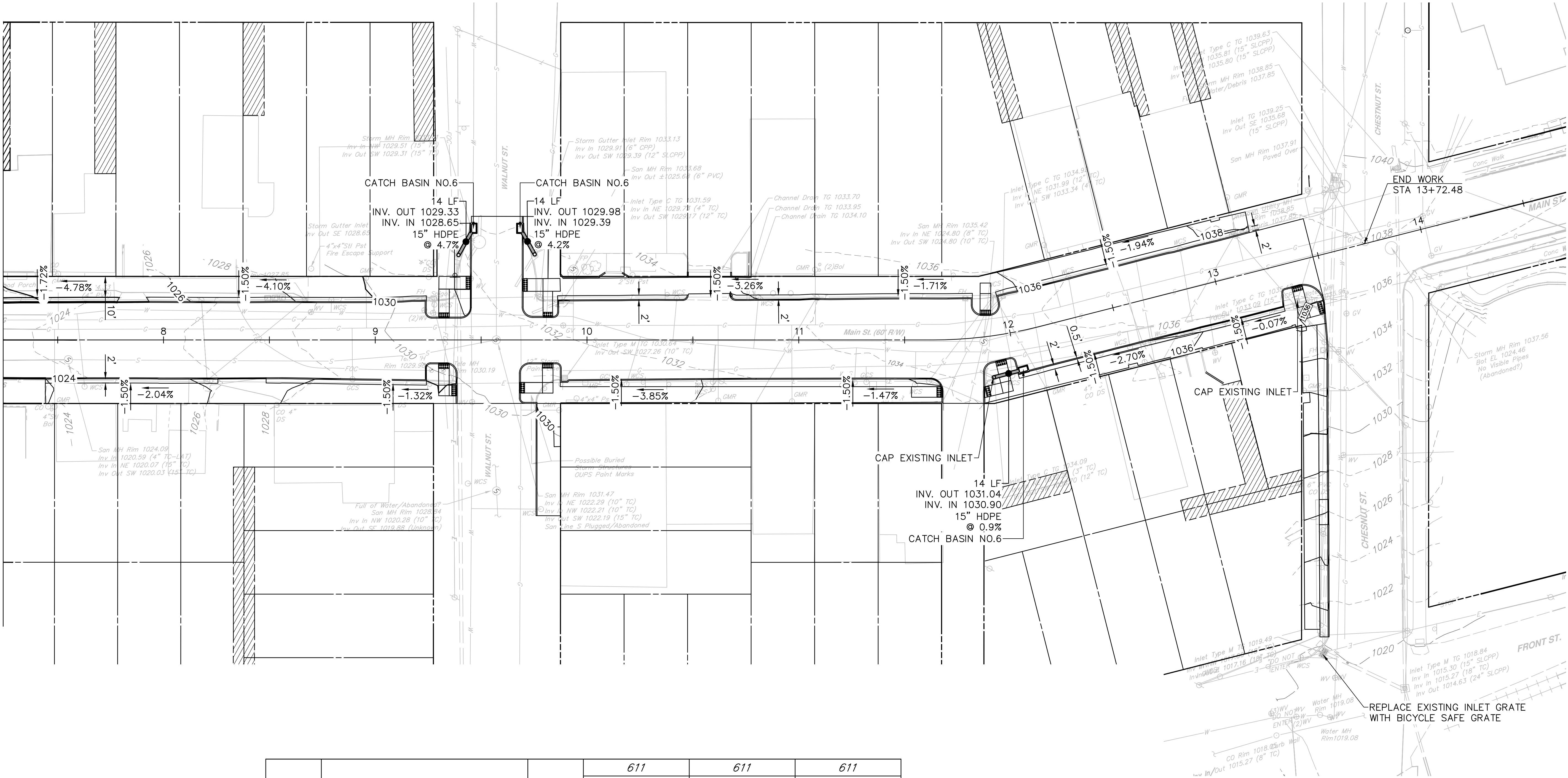
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220 WEST KENSINGER DRIVE
SUITE 100
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SCALE:
AS SHOWN
DATE: JUNE 1, 2026
JOB NO: R007307.0430
DESIGN: RPM
DRAWN: KMV
CHECKED: RPM
SHEET NO.
16 OF 19

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CONTINUED ON SHEET 16



REF NO.	STATION		SIDE	611	611	611
				15" CONDUIT, TYPE B	CATCH BASIN NO. 6	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN
	FROM	TO		LF	EACH	EACH
	7+63.9	13+72	LT	24	2	
			RT	14	1	
			CL			2
TOTALS CARRIED TO GENERAL SUMMARY				42	3	2

GRADING AND DRAINAGE PLAN

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
724.778.4777 | hrginc.com

SCALE:
AS SHOWN

DATE: JUNE 1, 2026

JOB NO: R007307.0430

DESIGN: RPM

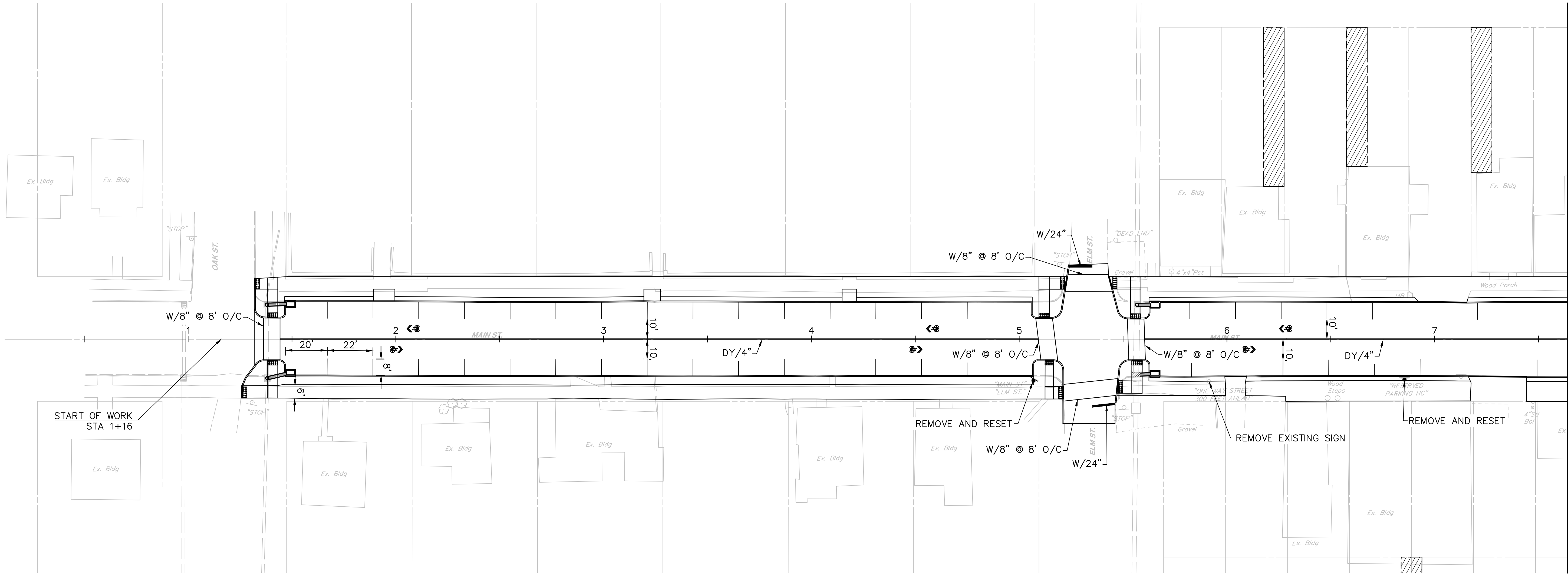
DRAWN: KMW

CHECKED: RPM

SHEET NO.
17 OF 19

GRAPHIC SCALE (IN FEET)
1 inch = 25 ft.

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REF NO.	STATION		SIDE	630	630	630	630	644	644	644	644	644
				REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	SIGN ERECTED, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	PARKING STALL MARKING	CROSSWALK LINE, 12"	STOP LINE, TYPE I	CENTER LINE, TYPE I	SHARED LANE MARKING, TYPE 1
	FROM	TO		EACH	EACH	SF	EACH	LF	LF	LF	MILE	EACH
	1+16	7+63.9	LT					176	45	12		3
			RT	1	1	10	2	168	52	12		3
			CL						120		0.22	
TOTALS CARRIED TO GENERAL SUMMARY				1	1	10	2	344	217	24	0.22	6

SIGNING AND PAVEMENT MARKING PLAN

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO



HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
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SCALE:
AS SHOWN

DATE: OCTOBER 2024

JOB NO: R007307.0430

DESIGN: RPM

DRAWN: KMV

CHECKED: RPM

SHEET NO.
18 OF 19

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LIGHTING

LIGHTING GENERAL NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 725 OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS, (CMS) DATED JANUARY 1, 2023, WHICH SHALL GOVERN ALL WORK OF THIS PROJECT, EXCEPT AS HEREINAFTER MODIFIED.

625, POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:
TROY RHOADES,REGIONAL EXTERNAL AFFAIRS
AT OHIO EDISON/ FIRST ENERGY
730 SOUTH AVE., YOUNGSTOWN,OH 44502
EMAIL: TROY.RHOADES@FIRSTENERGYCORP.COM
PHONE : 330-740-7721 (896-7721)

POWER SERVICE FOR OHIO FACILITY LIGHTING:120/240 VOLT 3-WIRE, SINGLE PHASE.

ALL POWER SERVICES SHALL BE METERED. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE (5) FEET HIGH TO THE CENTER OF THE METER DASE FROM THE GROUND. A NON-FUSED DISCONNECT SHALL BE INSTALLED ON THE POWER SIDE OF THE METER BASE. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES AND DISCONNECTS

THE PROPOSED PHOTOCCELL SHOULD BE PLACES 1'-2' ABOVE THE LIGHTING CONTROL CENTER (LCC) ENCLOSURE

THE CONCRETE WORK PAD IS INCLUDED IN THIS PAY ITEM

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

DISCONNECT CIRCUIT

THIS ITEM OF WORK SHALL CONSIST OF THE DISCONNECTION OF AN EXISTING LIGHT CIRCUIT AT A PULL BOX OR TRANSFORMER BASE. DISCONNECTION AT A PULL BOX SHALL INVOLVE CUTTING THE EXISTING CIRCUIT AND REMOVING ALL SPLICE KITS. ANY CABLE THAT IS TO BE ABANDONED SHALL BE TERMINATED FROM THE PULL BOX SO THAT NO CABLE IS LEFT IN THE BOX.

DISCONNECTION AT A LIGHT POLE SHALL INVOLVE CUTTING THE EXISTING CIRCUIT AND REMOVING ALL CONNECTOR KITS. ALL DUCT-CABLE NOT TO BE REUSED SHALL BE REMOVED FROM THE TRANSFORMER BASE AND THE EXISTING CONDUIT IN THE FOUNDATION SHALL BE CLEANED OF ALL CABLE AND DEBRIS SO THAT THE NEW DUCT-CABLE CAN BE INSTALLED. ALL EXISTING CABLE TO REMAIN ACTIVESHALL BE CUT IN A MANNER SO THAT THERE IS SUFFICIENT CABLE LEFT FOR RE-CONNECTION. THOSE WIRES THAT ARE TO REMAIN ON ACTIVE CIRCUITS SHALL HAVE A WATER-RESISTANT SEAL AT THE CUT END. THE WATER-RESISTANT SEAL SHALL BE ACCOMPLISHED BY PLUGGING THE DEACTIVATED PORT OF AN EXISTING CONNECTOR KIT OR BY INSTALLING A CABLE SPLICE KIT ON THE CUT END OF THE CABLE.

OUPS NOTE

WHEN THE PROJECT BEGINS AND THE CONTRACTOR HAS TAKEN OVER THE MAINTENANCE OF THE EXISTING SYSTEM, THEY SHALL PROVIDE ALL REQUIRED LAYOUTS AND LOCATIONS OF THE EXISTING AND PROPOSED ELECTRICAL CIRCUITS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL LOCATE AND MARK THE UNDERGROUND ELECTRICAL CIRCUITS DURING THE DURATION OF THE PROJECT.

ITEM 625, CONNECTION, UNFUSED PERMANENT, AS PER PLAN

FURNISH AND INSTALL A SPLICE KIT CONFORMING TO THE REQUIREMENT OF 625.18 AND 725.15E. IN ADDITION, THE SPLICE KIT SHALL HAVE A RIGID TRANSPARENT SPLICE ENCLOSURE AND THE EPOXY USED SHALL BE NON-SHRINKING.

PAYMENT FOR THIS ITEM SHALL INCLUDE ALL NECESSARY LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO PROVIDE FOR ITEM 625 - CONNECTION, UNFUSED PERMANENT, AS PER PLAN. BAS/S OF PAYMENT WILL BE AT THE CONTRACT BID PRICE PER EACH.

ITEM 625, PULL BOX, 725.08, 24", AS PER PLAN

THIS ITEM SHALL BE PER CMS 625.11 AND 725.08 AND SCD HL-30.11 WITH THE FOLLOWING EXCEPTIONS: COVER SCREWS SHALL BE ¼" STAINLESS STEEL MACHINE SCREWS WITH COUNTERSUNK SLOTTED HEADS. EACH SCREW SHALL FASTEN TO THE PULL BOX BY USE OF A THREADED METAL CLIP (U-NUT CAGE STYLE). MULTI-THREAD CLIPS WITH INTEGRAL NUT SHALL NOT BE USED. THE METAL CLIP SHALL BE CORROSION RESISTANT AND BE LUBRICATED PRIOR TO FASTENING. THREADED INSERTS EMBEDDED IN CONCRETE SHALL NOT BE PERMITTED.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 625 - PULL BOX, 725.08, 24", AS PER PLAN.

625, DECORATIVE POST-TOP LUMINAIRE, SOLID-STATE (LED), LANTERN STYLE, 3000K, BLACK FINISH

THIS ITEM CONSISTS OF SUPPLYING AND INSTALLING DECORATIVE POST-TOP LED LUMINAIRES FOR STREET AND/OR SIDEWALK ILLUMINATION.

A LANTERN STYLE LUMINAIRE CONSISTS OF A FOUR DISCRETE FLAT SLOPING SIDES, PER HL-10.11, WITH OR WITHOUT GLASS OR POLYMER PANELS, AND A ROUNDED OR POINTED TOP AND A SMALL CUPOLA. PROVIDE A LUMINAIRE WITH A B-U-G UP-LIGHTING RATING OF U2 OR LESS.

THE LUMINAIRE IS INTENDED FOR EXTERNAL ON/OFF CONTROL AND SHALL NOT INCLUDE A PHOTOCCELL SOCKET.

ASSURE THE LUMINAIRE HAS A NOMINAL POWER OF 65-85 WATTS AND A NOMINAL COLOR TEMPERATURE OF 3000K.

PROVIDE A LUMINAIRE WITH FACTORY-APPLIED BLACK FINISH.

SUPPLY ONE OF THE FOLLOWING LUMINAIRES, OR AN APPROVED EQUAL:

- 1. STERNBERG
- 2. HOLOPHANE
- 3. KING

625, LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL

THE CONTRACTOR SHALL SATISFY THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 825 FOR THE CONTROL CENTERS.

METHOD OF MEASUREMENT SHALL BE PER 825.06. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE LIGHTING SUBSUMMARY.

PS-XX: LIGHTING MISC.: ARC FLASH CALCULATIONS AND LABEL.

625, UNDERDRAINS FOR PULLBOXES

REFERENCE TRAFFIC SCD HL-30.11 FOR DETAILS ABOUT DRAINING PULLBOXES. UNDERDRAINS FOR PULLBOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED 20 FEET. THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE LIGHTING SUBSUMMARY FOR THIS PURPOSE:

ITEM 611 4" CONDUIT, TYPE E.....360 FT.

LIGHTING GENERAL NOTES

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO



HERBERT ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CHAMBERS TOWNSHIP, PA 16066
724.793.4777 | hrg-inc.com

SCALE:
AS SHOWN

DATE: DECEMBER 2024

JOB NO: R007307.0430

DESIGN: SS

DRAWN: SSA

CHECKED: SS

SHEET NO.
L.1 OF L.11

SPECIAL, MAINTAIN EXISTING LIGHTING

EXISTING ROADWAYS WHICH ARE TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT AND WHICH ARE LIGHTED SHALL HAVE THE LIGHTING MAINTAINED AS DESCRIBED HEREIN.

BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF THE EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION, A WRITTEN RECORD OF THE CONDITION OF EXISTING LIGHTING SHALL BE MADE BY ODOT'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR.

IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEN THE MAINTAINING AGENCY SHALL MAKE THE REPAIRS NECESSARY TO RETURN THE SYSTEM TO AN ACCEPTABLE CONDITION. FOLLOWING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT SHALL BE MADE AND SIGNED AS OUTLINED HEREIN.

WHEN THE EXISTING SYSTEM IS IN AN ACCEPTABLE CONDITION, IT SHALL BE TURNED OVER TO THE CONTRACTOR WHO SHALL THEN BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING TO THE CONDITION OUTLINED IN THIS REPORT WITH THE EXCEPTION OF KNOCKDOWNS DUE TO TRAFFIC ACCIDENTS.

REPLACEMENT OF KNOCKED DOWNED UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A UNIT BASIS.

BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENT.

WHEN THE SEQUENCE OF CONSTRUCTION ACTIVITIES REQUIRES, OR SHOULD THE CONTRACTOR DESIRE, THE REMOVAL OF THE EXISTING LIGHTING BEFORE THE NEW LIGHTING IS OPERATIONAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING OF THIS PORTION OF THE ROADWAY.

PRIOR TO INSTALLING SUCH LIGHTING, THE CONTRACTOR SHALL PREPARE AND SUBMIT FOUR SETS OF THE TEMPORARY LIGHTING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. THIS PLAN SHALL SHOW LOCATIONS OF POLES, LENGTHS OF BRACKET ARMS, STYLES OF LUMINAIRES, MOUNTING HEIGHTS, WIRING METHODS AND OTHER PERTINENT INFORMATION. THE TEMPORARY LIGHTING SHALL PROVIDE AN AVERAGE INITIAL INTENSITY OF 1.2 FOOTCANDLES WITH AN AVERAGE TO MINIMUM UNIFORMITY NOT TO EXCEED 3:1. MOUNTING HEIGHT OF TEMPORARY LUMINAIRES SHALL NOT BE LESS THAN 30 FEET, AND THE MINIMUM OVERHEAD CONDUCTOR CLEARANCE SHALL BE 20 FEET. TEMPORARY OVERHEAD CONSTRUCTION SHALL NOT BE LESS THAN GRADE "B" FOR STRENGTH REQUIREMENTS AS DEFINED BY THE NATIONAL ELECTRIC SAFETY CODE. WOOD POLES WITH OVERHEAD WIRING MAY BE USED. HOWEVER, TEMPORARY LIGHTING SHALL MEET FEDERAL AND STATE SAFETY CRITERIA. IF BREAKAWAY POLES ARE USED TO MEET THESE CRITERIA, THEN UNDERGROUND WIRING SHALL BE USED. RECONDITIONED OR USED MATERIALS MAY BE FURNISHED FOR TEMPORARY LIGHTING.

SPECIAL, MAINTAIN EXISTING LIGHTING (CONTINUED)

ALL MATERIALS NECESSARY TO COMPLETE THE TEMPORARY LIGHTING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WHEN NO LONGER NEEDED, THE TEMPORARY LIGHTING INSTALLATION SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

THE MAINTAINING AGENCY WILL PAY FOR ELECTRICAL ENERGY CONSUMED BY EXISTING POWER SERVICES AND BY PROPOSED PERMANENT POWER SERVICES AFTER ACCEPTANCE OF THE LIGHTING WORK. THE CONTRACTOR WILL PAY FOR ELECTRICAL ENERGY, INSTALLATION, REMOVAL AND MAINTENANCE OF ANY TEMPORARY POWER SERVICES.

THE VILLAGE OWNED AND MAINTAINED LIGHTING IS LOCATED AT APPROXIMATELY 12+75 RIGHT, ALONG MAIN STREET IN THE POCKET PARK AREA. THERE ARE FOUR DECORATIVE LIGHT POLES AS SHOWN ON THE PLANS. MAINTAIN POWER SERVICE AT ALL TIMES DURING CONSTRUCTION AND DO NOT DISTURB THE EXISTING CIRCUIT.

THE LUMP SUM PRICE BID FOR ITEM SPECIAL "MAINTAIN EXISTING LIGHTING" SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

THE UNIT PRICE BID FOR ITEM SPECIAL "REPLACEMENT OF EXISTING LIGHTING UNIT" SHALL BE FULL PAYMENT FOR THE REPLACEMENT OF AN EXISTING LIGHTING UNIT WHICH HAS BEEN KNOCKED DOWN AFTER THE AFOREMENTIONED INSPECTION AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO PROVIDE A REPLACEMENT FOR SUCH UNIT.

625, LIGHT POLE, DECORATIVE, AS PER PLAN (BY HEIGHT)

THIS ITEM CONSISTS OF SUPPLYING AND INSTALLING DECORATIVE POLES FOR STREET AND/OR SIDEWALK INSTALLATION.

PROVIDE A POLE WITH FACTORY-APPLIED BLACK FINISH.

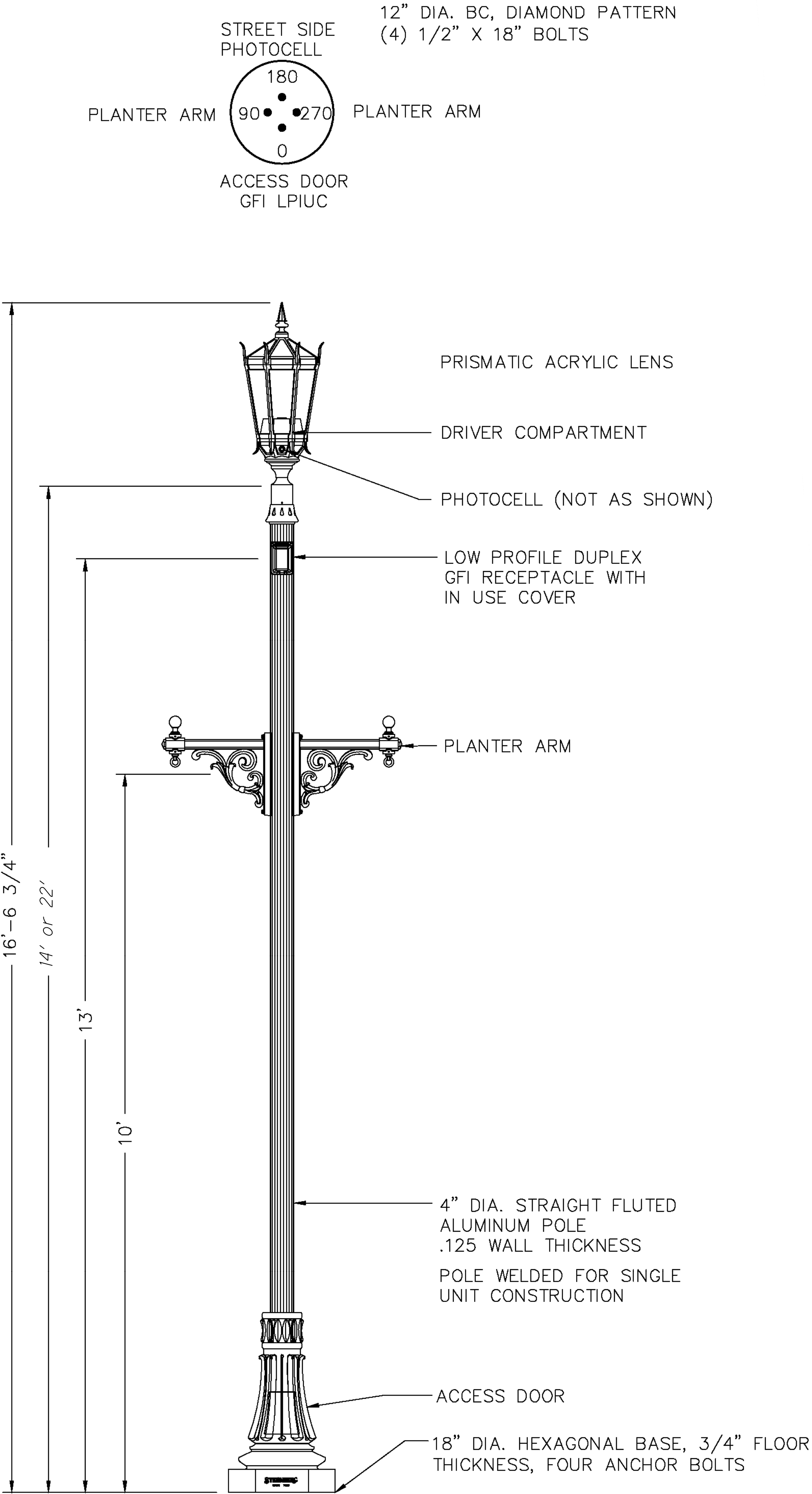
CONNECTIONS SHALL BE PROVIDED TO ACHIEVE THE SPECIFIED LUMINAIRE MOUNTING HEIGHT AS SHOWN ON THE PLANS.

SUPPLY ONE OF THE FOLLOWING POLES, OR AN APPROVED EQUAL:

- 1. STERNBERG
- 2. HOLOPHANE
- 3. KING

SEE DETAILS ON THE RIGHT SIDE OF THIS SHEET.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH CMS ITEM 625 "LIGHT POLE, DECORATIVE, AS PER PLAN (BY HEIGHT)", WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THESE ITEMS IN A SATISFACTORY AND WORKMANLIKE MANNER.



LIGHTING GENERAL NOTES

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

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CHAMBERS TOWNSHIP, PA 16066
724.793.4777 | hr-g-inc.com

SCALE:
AS SHOWN
DATE: DECEMBER 2024
JOB NO: R007307.0430
DESIGN: SS
DRAWN: SSA
CHECKED: SS
SHEET NO.
L.2 OF L.11

REF NO.	SHEET NO.	ALIGNMENT	STATION TO STATION		SIDE	611	625	625		625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625
						4" CONDUIT, TYPE E	CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PERMANENT		LIGHT POLE, DECORATIVE, AS PER PLAN, 14'	LIGHT POLE, DECORATIVE, AS PER PLAN, 22'	LIGHT POLE FOUNDATION, 24" X 6' DEEP		NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	CONDUIT, 3", 725.04	CONDUIT, JACKED OR DRILLED, 725.04, 3"	LUMINAIRE, DECORATIVE	TRENCH	PULL BOX, 725.08, 18"	PULL BOX, 725.08, 24"	PULL BOX REMOVED	GROUND ROD	POWER SERVICE, AS PER PLAN		UNDERGROUND WARNING/MARKING TAPE	LUMINAIRE REMOVED
			FT	EACH		EACH		EACH	EACH	EACH		FT	FT	FT	FT	EACH	FT	EACH	EACH	EACH	EACH	EACH		FT	EACH	EACH	
		CIRCUIT A	FROM	TO																							
LA-1	L.6	MAIN ST.	00+54		LT		2			1		1		32		1					1						
LA-1 - PB-1	L.6	MAIN ST.	00+54	00+94	LT								150		40		40							40			
PB-1 - LA-3	L.6	MAIN ST. & OAK ST.	0+94	1+01	LT								120		30		30							30			
PB-1	L.6	MAIN ST.	00+94		LT	20		3											1								
PB-1 - PB-2	L.6	MAIN ST.	00+94	1+36	LT								165			45											
PB-2	L.6	MAIN ST.	1+36		LT	20		3										1									
LA-3	L.6	MAIN ST.	1+01		LT		2			1		1		32				1					1				
PB-2 - LA-5	L.6	MAIN ST.	1+36	1+58	LT								114		28		28								28		
LA-5	L.6	MAIN ST. & OAK ST.	1+58		LT		2				1	1		44				1						1			
LA-5 - LA-7	L.6	MAIN ST.	1+58	2+81	LT								399		123		123							123			
LA-7	L.6	MAIN ST.	2+81		LT		2			1		1		32				1						1			
LA-7 - LA-9	L.6	MAIN ST.	2+81	4+03	LT								396		122		122								122		
LA-9	L.6	MAIN ST.	4+03		LT		2			1		1		32				1						1			
LA-9 - LA-11	L.6-L.7	MAIN ST.	4+03	5+15	LT								369		113		113								113		
LA-11	L.7	MAIN ST. & ELM ST.	5+15		LT		2				1	1		44				1						1			
LA-11 - PB-5	L.7	MAIN ST.	5+15	5+18.50	LT								45		5		5								5		
PB-5 - PB-6	L.7	MAIN ST.	5+18	5+52	RT								132			34											
PB-5	L.7	MAIN ST.	5+18		LT	20		3											1								
PB-6	L.7	MAIN ST.	5+52		LT	20		3											1								
PB-6 - LA-14	L.7	MAIN ST.	5+52	6+47	LT								315		95		95								95		
LA-14	L.7	MAIN ST.	6+47		LT		2			1		1		32				1						1			
LA-14 - LA-16	L.7	MAIN ST.	6+47	7+72	LT								405		125		125								125		
LA-16	L.7	MAIN ST.	7+72		LT		2			1		1		32				1						1			
LA-16 - LA-18	L.7	MAIN ST.	7+72	8+86	LT								372		114		114								114		
LA-18	L.7	MAIN ST.	8+86		LT		2			1		1		32				1						1			
LA-18 - PB-9	L.7	MAIN ST.	8+86	9+44	LT								204		58		58								58		
PB-9 - LA-20	L.7	MAIN ST. & WALNUT ST.	9+44	9+44	LT								84		18		18								18		
LA-20	L.7	MAIN ST. & WALNUT ST.	9+44		LT		2				1	1		44				1						1			
PB-9	L.7	MAIN ST.	9+44	9+71	LT	20		3												1							
PB-9 - PB-10	L.7	MAIN ST.	9+44	9+71	LT								111			27											
PB-10	L.7	MAIN ST.	9+71		LT	20		3																			
PB-10 - LA-22	L.7	MAIN ST.	9+71	9+97	LT								108		26		26								26		
LA-22	L.7	MAIN ST. & WALNUT ST.	9+97		LT		2				1	1		44				1						1			
LA-22 - LA-24	L.7-L.8	MAIN ST.	9+97	11+16	LT								387		119		119								119		
LA-24	L.8	MAIN ST.	11+16		LT		2			1		1		32				1						1			
LA-24 - LA-26	L.8	MAIN ST.	11+16	12+24	LT								339		103		103								103		
LA-26	L.8	MAIN ST.	12+24		LT		2			1		1		32				1						1			
LA-26 - LA-28	L.8	MAIN ST.	12+24	12+84	LT								210		60		60								60		
LA-28	L.8	MAIN ST.	12+84		LT		2			1		1		32				1						1			
LA-28 - LA-29	L.8	MAIN ST.	12+84	13+44	LT								210		60		60								60		
LA-29	L.8	MAIN ST. & CHESTNUT ST.	13+44		LT		2				1	1		44				1						1			
LA-29 - PB-15	L.8	MAIN ST.	13+44	13+52	LT								57		9		9								9		
PB-15	L.8	MAIN ST.	13+52		LT	20		3												1							
PB-15 - LA-32	L.8	MAIN ST. & CHESTNUT ST.	13+52	13+82	LT								339		103		103								103		
PB-15 - PB-16	L.8	MAIN ST.	13+52	13+45	LT & RT								165			45											
PB-16	L.8	MAIN ST.	13+45		RT	20		3																			
PB-16 - LB-30	L.8	MAIN ST. & CHESTNUT ST.	13+45	13+43	RT								78		16		16								16		
LB-30	L.8	MAIN ST. & CHESTNUT ST.	13+43		RT		2				1	1		44				1						1			
LB-30 - LB-31	L.8	MAIN ST. & CHESTNUT ST.	13+43	13+25	RT								264		78		78								78		
LB-31	L.8	MAIN ST.	13+25		RT		2			1		1		32				1						1			

LIGHTING SUBSUMMARY

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

ERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBERRY TOWNSHIP, PA 16066
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SCALE:
AS SHOWN

DATE:	DECEMBER 2024
JOB NO:	R007307.0430
DESIGN:	SSA
DRAWN:	SSA
CHECKED:	SS

SHEET NO.
L.3 OF L.11

REF NO.	SHEET NO.	ALIGNMENT	STATION TO STATION		SIDE	611	625	625		625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625
						4" CONDUIT, TYPE E	CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PERMANENT		LIGHT POLE, DECORATIVE, AS PER PLAN , 14"	LIGHT POLE, DECORATIVE, AS PER PLAN , 22"	LIGHT POLE FOUNDATION, 24" X 6' DEEP		NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	CONDUIT, 3", 725.04	CONDUIT, JACKED OR DRILLED, 725.04	LUMINAIRE, DECORATIVE	TRENCH, 3"	PULL BOX, 725.08, 18"	PULL BOX, 725.08, 24"	PULL BOX REMOVED	GROUND ROD	POWER SERVICE, AS PER PLAN		UNDERGROUND WARNING/MARKING TAPE	LUMINAIRE REMOVED	LUMINAIRE SUPPORT REMOVED
			FT	EACH		EACH		EACH	EACH	EACH		FT	FT	FT	FT	EACH	FT	EACH	EACH	EACH	EACH	EACH		FT	EACH	EACH		
		CIRCUIT B	FROM	TO																								
LB-2 - PB-3	L.6	MAIN ST.	0+70	1+07	RT								141		37			37							37			
PB-3	L.6	MAIN ST.	1+07		RT	20		3									1											
LB-2	L.6	MAIN ST.	00+70		RT		2			1		1		32			1				1							
PB-3 - PB-4	L.6	MAIN ST.	1+07	1+30	RT								99			23												
LB-4	L.6	MAIN ST. & OAK ST.	1+26		RT		2			1	1			44			1						1					
PB-4	L.6	MAIN ST.	1+30		RT	20		3											1									
LB-4 - PB-4	L.6	MAIN ST.	1+26	1+30	RT								108		26			26							26			
PB-4 - LB-6	L.6	MAIN ST.	1+30	2+18	RT								294		88			88							88			
LB-6	L.6	MAIN ST.	2+18		RT		2			1	1			32			1						1					
LB-6 - LB-8	L.6	MAIN ST.	2+18	3+40	RT								396		122			122							122			
LB-8	L.6	MAIN ST.	3+40		RT		2			1							1							1				
LB-8 - LB-10	L.6	MAIN ST.	3+40	4+63	RT								399		123										123			
LB-10	L.6	MAIN ST.	4+63		RT		2			1	1						1							1				
LB-10 - PB-7	L.6-L.7	MAIN ST.	4+63	5+18	RT								195		55			55							55			
PB-7	L.7	MAIN ST.	5+18		RT	20		3											1									
PB-7 - PB-8	L.7	MAIN ST.	5+18	5+52	RT								132			34												
LB-12	L.7	MAIN ST. & ELM ST.	5+50		RT		2			1	1			44			1							1				
LB-12 - PB-8	L.7	MAIN ST.	5+50	5+52	RT								90		20			20								20		
PB-8	L.7	MAIN ST.	5+52		RT	20		3												1								
PB-8 - LB-13	L.7	MAIN ST.	5+52	5+86	RT								132		34			34							34			
LB-13	L.7	MAIN ST.	5+86		RT		2			1	1			32			1							1				
LB-13 - LB-15	L.7	MAIN ST.	5+86	7+10	RT								402		124			124							124			
LB-15	L.7	MAIN ST.	7+10		RT		2			1							1							1				
LB-15 - LB-17	L.7	MAIN ST.	7+10	8+24	RT								372		114			114							114			
LB-17	L.7	MAIN ST.	8+24		RT		2			1	1			32			1							1				
LB-17 - LB-19	L.7	MAIN ST.	8+24	9+34	RT								360		110			110							110			
LB-19	L.7	MAIN ST. & WALNUT ST.	9+34		RT		2			1	1			44			1							1				
LB-19 - PB-11	L.7	MAIN ST.	9+34	9+37	RT								45		5			5							5			
PB-11	L.7	MAIN ST.	9+36		RT	20		3											1									
PB-11 - PB-12	L.7	MAIN ST.	9+36	9+71	RT								135			35												
LB-21	L.7	MAIN ST. & WALNUT ST.	9+70		RT		2			1	1			44			1							1				
LB-21 - PB-12	L.7	MAIN ST.	9+70	9+71	RT								123		31			31							31			
PB-12	L.7	MAIN ST.	9+71		RT	20		3												1								
PB-12 - LB-23	L.7-L.8	MAIN ST.	9+70	10+55	RT								285		85			85							85			
LB-23	L.8	MAIN ST.	10+55		RT		2			1							1							1				
LB-23 - LB-25	L.8	MAIN ST.	10+55	11+63	RT								357		109			109							109			
PS-1	L.8	MAIN ST.	11+62		RT																1							
LB-25	L.8	MAIN ST.	11+63		RT		2			1							1							1				
LB-25 - PB-13	L.8	MAIN ST.	11+63	11+63	RT								51		7			7							7			
PB-13	L.8	MAIN ST.	11+63		RT	20		3											1									
PB-13 - PB-14	L.8	MAIN ST.	11+63	11+99	RT								156			42												
PB-14	L.8	MAIN ST.	11+99		RT	20		3											1									
PB-14 - PB-17	L.8	MAIN ST.	11+99	12+57	RT								210		60			60							60			

LIGHTING SUBSUMMARY

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

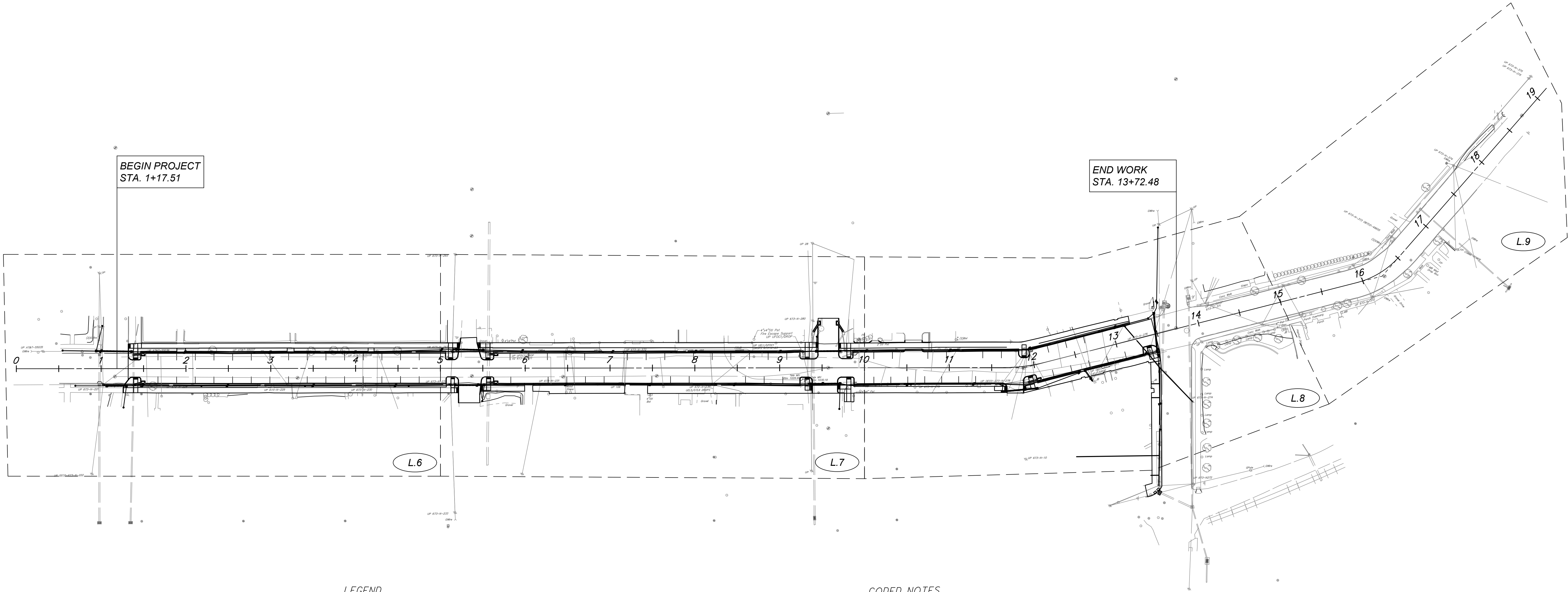
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SCALE:
AS SHOWN

DATE: DECEMBER 2024
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DESIGN: SSA
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SHEET NO. L.4 OF L.11

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LEGEND

- LIGHT POLE W/ LUMENS, TYPE III LED LUMINAIRE (LIGHT POLE DESIGN NUMBER PER SCD HL-10.11)
- PULL BOX, 725.08, 18", AS PER PLAN, UNLESS OTHERWISE NOTED
- PULL BOX IDENTIFICATION
- LIGHT POLE IDENTIFICATION
- CONDUIT, JACKED OR DRILLED (3", 725.04)
- CIRCUIT (3 WIRE, 2 CONDUCTOR, 120/240V, SINGLE PHASE)
- POWER SERVICE & CONTROL CENTER
- POWER POLE
- EX. CIRCUIT
- EX. PULL BOX
- EX. LIGHT POLE
- TO BE REMOVED AND RELOCATED
- TO BE REMOVED
- DO NOT DISTURB

CODED NOTES

- 1 ITEM 625, CONDUIT, 725.04, 3"
- 2 ITEM 625, PULL BOX, 725.08, 18"
- 2a ITEM 625, PULL BOX, 725.08, 24"
- 3 ITEM 625, POWER SERVICE, AS PER PLAN, 120/240V
- 4 3" CONDUIT, 725.04, JACKED OR DRILLED
- 5 CONTROL CENTER, COORDINATE WITH UTILITY COMPANY
- 6 ITEM 625, LUMINAIRE, DECORATIVE
- 7 ITEM 625, LIGHT POLE, AESTHETIC, 14', TRANSFORMER BASE
- 7a ITEM 625, LIGHT POLE, AESTHETIC, 22', TRANSFORMER BASE
- 8 ITEM 625, LIGHT POLE FOUNDATION, 24" X 6' DEEP
- 9 ITEM 625, NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE

HORIZ:

60'

30'

0'

60'

SCALE IN FEET

LIGHTING SCHEMATIC PLAN

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

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AS SHOWN

DATE: DECEMBER 2024

JOB NO: R007307.0430

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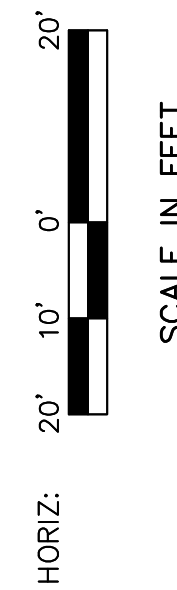
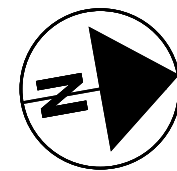
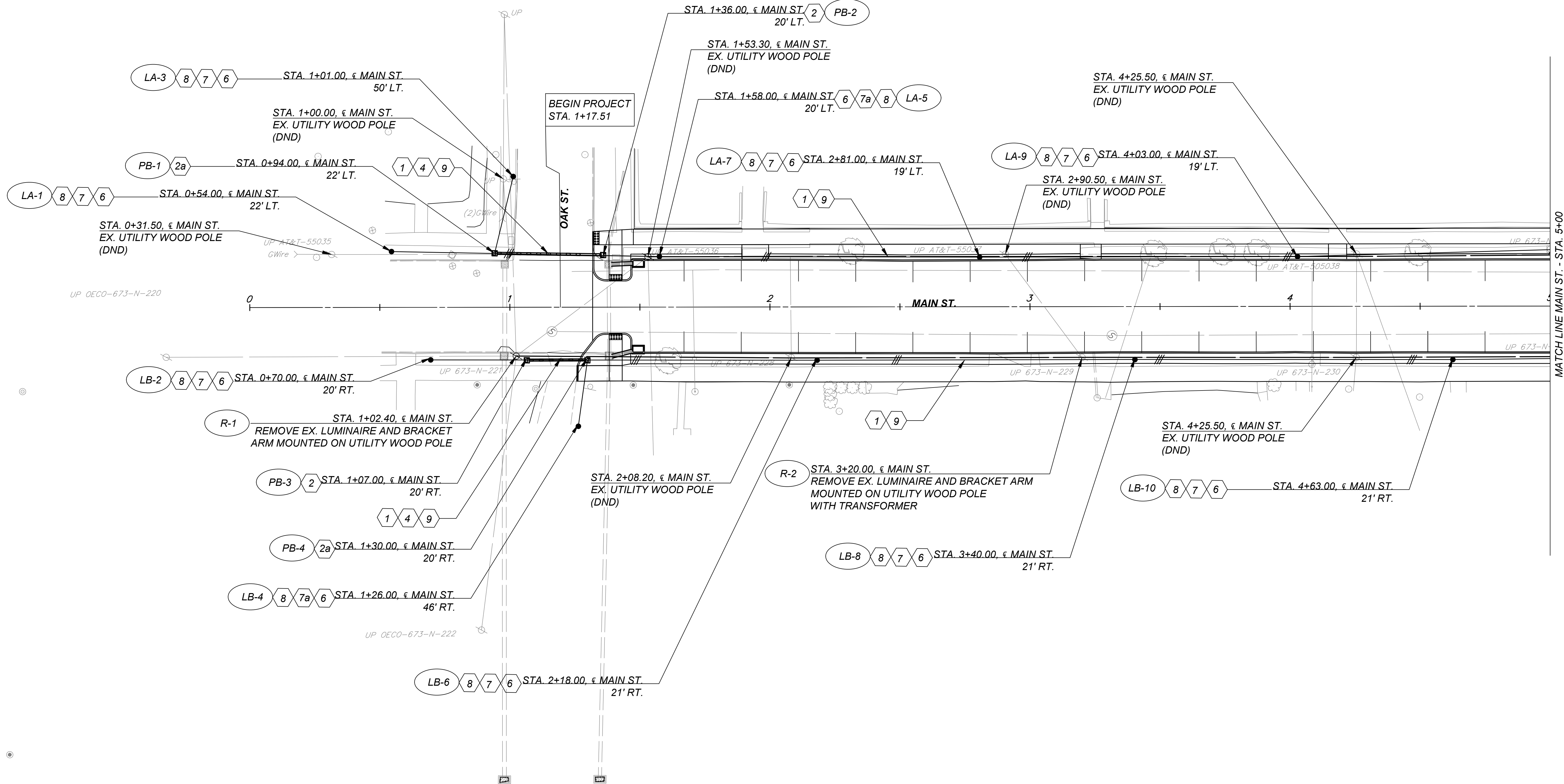
SHEET NO.
L.5 OF L.11

ssopraseuth

Dec 20, 2024 - 4:57pm

Layout-LP01

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LIGHTING PLAN

VILLAGE OF LEETONIA

STREETSCAPE

COLUMBIANA COUNTY, OHIO

HERBERT ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBERRY TOWNSHIP, PA 16066
724.779.4177 | hrgr-inc.com

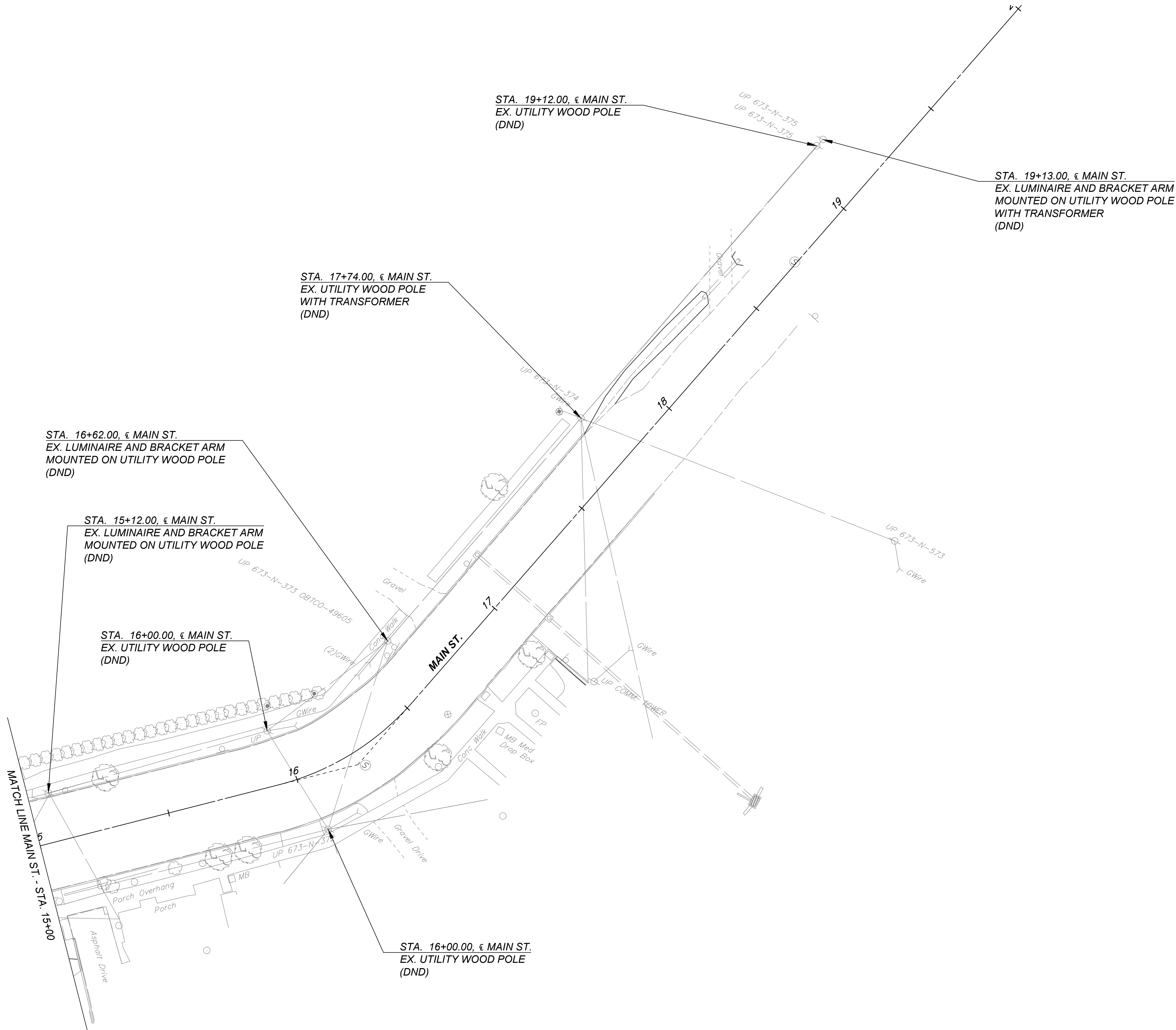


SCALE:
AS SHOWN

DATE: DECEMBER 2024
JOB NO: R007307.0430
DESIGN: SS
DRAWN: SSA
CHECKED: SS

SHEET NO.
L.6 OF L.11

FOR LEGEND, SEE SHEET L.5

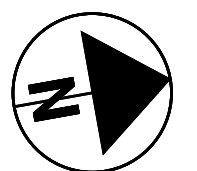


FOR LEGEND, SEE SHEET L.5

LIGHTING PLAN

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO


HORIZ: 20' 10' 0' 20'
SCALE IN FEET



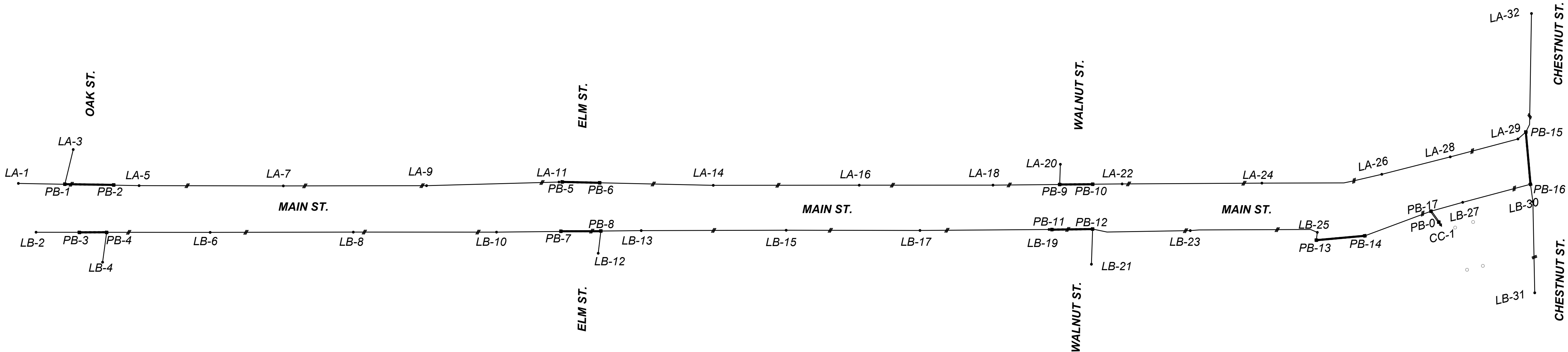
HERBERT ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBERRY TOWNSHIP, PA 16066
724.779.4177 | hrgrinc.com

SCALE:
AS SHOWN

DATE: DECEMBER 2024
JOB NO: R007307.0430
DESIGN: SS
DRAWN: SSA
CHECKED: SS

SHEET NO.
L.9 OF L.11

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HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBERRY TOWNSHIP, PA 16066
724.779.4777 | hrg-inc.com

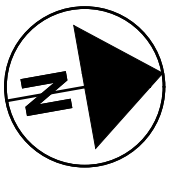
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AS SHOWN

DATE:	DECEMBER 2024
JOB NO:	R007307.0430
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SHEET NO. L.10 OF L.11	

LIGHTING CIRCUIT DIAGRAM

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO



HORIZ:

50' 25' 0' 50'

SCALE IN FEET

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CONTROL CENTER DATA									
CONTROL CENTER DESIGNATION	LINE VOLTS	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD AMPS	CIRCUIT FUSE SIZE AMPS	CIRCUIT CABLE SIZE AWG	MAINTAINING AGENCY
CC-1	240	3.6	2/0	60	A	7.52	10	4	VILLAGE OF LEETONIA
					B	7.52	10	4	
					C (SPARE)	0.00	20	4	

VOLTAGE DROP CALCULATIONS

County-Route-Section: COL-Leetonia Streetscape No. of Wires for Calculation Purposes: 2

Power Service: Circuit: A Wattage: 86

Supply Voltage: 240

Wire Resistance Used: No. 4 AWG. 0.310

No. AWG.

Voltage: 240	Wire Factor Used (Two - No. 10 AWG Wires):	2.40	ohms/mft/1000	Circuit: 'A'
	Wire Factor Used (Two - No. 8 AWG Wires):	1.56	ohms/mft/1000	
	Wire Factor Used (Two - No. 6 AWG Wires):	0.98	ohms/mft/1000	
	Wire Factor Used (Two - No. 4 AWG Wires):	0.62	ohms/mft/1000	

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
LA-1	PB-1	40	0.47	0.47	19	4	0.01	5.19	2.16	LA-1
LA-3	PB-1	41	0.47	0.47	19	4	0.01	4.44	1.85	LA-3
PB-1	PB-2	60	0.00	0.94	56	4	0.03	3.67	1.53	PB-1
PB-2	LA-5	42	0.00	0.94	39	4	0.02	4.55	1.89	PB-2
LA-5	LA-7	134	0.47	1.41	189	4	0.12	5.07	2.11	LA-5
LA-7	LA-9	133	0.47	1.88	250	4	0.16	4.34	1.81	LA-7
LA-9	LA-11	123	0.47	2.35	289	4	0.18	3.97	1.65	LA-9
LA-11	PB-5	20	0.47	2.82	56	4	0.03	4.69	1.95	LA-11
PB-5	PB-6	42	0.00	2.82	118	4	0.07	4.65	1.94	PB-5
PB-6	LA-14	107	0.00	2.82	302	4	0.19	4.51	1.88	PB-6
LA-14	LA-16	135	0.47	3.29	444	4	0.28	3.78	1.57	LA-14
LA-16	LA-18	125	0.47	3.76	470	4	0.29	4.12	1.72	LA-16
LA-18	PB-9	67	0.47	4.23	283	4	0.18	3.82	1.59	LA-18
LA-20	PB9	28	0.47	0.47	13	4	0.01	3.65	1.52	LA-20
PB9	PB-10	39	0.00	4.70	183	4	0.11	3.64	1.52	PB9
PB-10	LA-22	36	0.00	4.70	169	4	0.10	3.53	1.47	PB-10
LA-22	LA-24	130	0.47	5.17	672	4	0.42	3.42	1.43	LA-22
LA-24	LA-26	113	0.47	5.64	637	4	0.40	3.01	1.25	LA-24
LA-26	LA-28	71	0.47	6.11	434	4	0.27	2.61	1.09	LA-26
LA-28	LA-29	70	0.47	6.58	461	4	0.29	2.34	0.98	LA-28
LA-29	PB-15	18	0.47	7.05	127	4	0.08	2.06	0.86	LA-29
LA-32	PB-15	113	0.47	0.47	53	4	0.03	1.98	0.82	LA-32
PB-15	PB-16	90	0.00	7.52	677	4	0.42	1.94	0.81	PB-15
PB-16	PB-17	120	0.00	7.52	902	4	0.56	1.52	0.64	PB-16
PB-17	PB0	60	0.00	7.52	451	4	0.28	0.97	0.40	PB-17
PB0	CC-1	15	0.00	7.52	113	4	0.07	0.69	0.29	PB0
CC-1	PS1	132	0.00	7.52	993	4	0.62	0.62	0.26	CC-1

VOLTAGE DROP CALCULATIONS

County-Route-Section: COL-Leetonia Streetscape No. of Wires for Calculation Purposes: 2

Power Service: Circuit: B Wattage: 86

Supply Voltage: 240

Wire Resistance Used: No. 4 AWG. 0.310

No. AWG.

Voltage: 240	Wire Factor Used (Two - No. 10 AWG Wires):	2.40	ohms/mft/1000	Circuit: 'B'
	Wire Factor Used (Two - No. 8 AWG Wires):	1.56	ohms/mft/1000	
	Wire Factor Used (Two - No. 6 AWG Wires):	0.98	ohms/mft/1000	
	Wire Factor Used (Two - No. 4 AWG Wires):	0.62	ohms/mft/1000	

Section			Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To	Design Feet	At Point	Accum.			In Section	Accum.		
LB-2	PB-3	47	0.47	0.47	22	4	0.01	3.97	1.65	LB-2
LB-4	PB-4	36	0.47	0.47	17	4	0.01	3.64	1.52	LB-4
PB-3	PB-4	34	0.00	0.47	16	4	0.01	3.01	1.25	PB-3
PB-4	LB-6	99	0.00	0.94	93	4	0.06	3.31	1.38	PB-4
LB-6	LB-8	133	0.47	1.41	188	4	0.12	3.81	1.59	LB-6
LB-8	LB-10	133	0.47	1.88	250	4	0.16	3.09	1.29	LB-8
LB-12	PB-8	29	0.47	0.47	14	4	0.01	2.78	1.16	LB-12
LB-10	PB-7	65	0.47	2.35	153	4	0.09	3.61	1.51	LB-10
PB-7	PB-8	44	0.00	2.35	103	4	0.06	3.52	1.47	PB-7
PB-8	LB-13	46	0.00	2.82	130	4	0.08	3.38	1.41	PB-8
LB-13	LB-15	134	0.47	3.29	441	4	0.27	2.76	1.15	LB-13
LB-15	LB-17	125	0.47	3.76	470	4	0.29	3.10	1.29	LB-15
LB-17	LB-19	121	0.47	4.23	512	4	0.32	2.81	1.17	LB-17
LB-19	PB-11	10	0.47	4.70	47	4	0.03	2.49	1.04	LB-19
PB-11	PB-12	45	0.00	4.70	212	4	0.13	2.46	1.03	PB-11
LB-21	PB-12	38	0.47	0.47	18	4	0.01	2.33	0.97	LB-21
PB-12	LB-23	94	0.00	5.17	486	4	0.30	2.32	0.97	PB-12
LB-23	LB-25	119	0.47	5.64	671	4	0.42	2.02	0.84	LB-23
LB-25	PB-13	20	0.47	6.11	122	4	0.08	1.60	0.67	LB-25
PB-13	PB-14	42	0.00	6.11	257	4	0.16	1.53	0.64	PB-13
PB-14	PB-17	90	0.00	6.11	550	4	0.34	1.37	0.57	PB-14
LB-27	PB-17	40	0.47	1.41	56	4	0.03	1.03	0.43	LB-27
PB-16	LB-27	70	0.00	0.94	66	4	0.04	0.99	0.41	PB-16
LB-31	LB-30	82	0.47	0.47	39	4	0.02	0.95	0.40	LB-31
LB-30	PB-16	26	0.47	0.94	24	4	0.02	0.93	0.39	LB-30
PB-17	PB0	60	0.00	6.11	367	4	0.23	0.91	0.38	PB-17
PB0	CC-1	15	0.00	7.52	113	4	0.07	0.69	0.29	PB0
CC-1	PS1	132	0.00	7.52	993	4	0.62	0.62	0.26	CC-1

LIGHTING VOLTAGE DROP CALCULATIONS AND CONTROL CENTER DATA

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

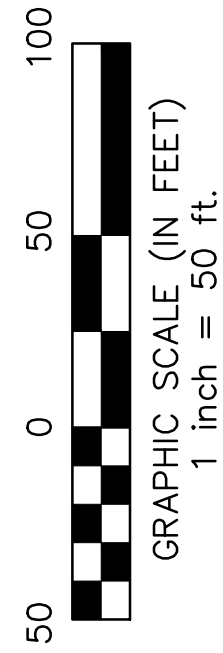
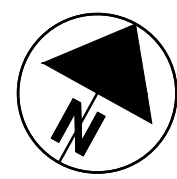
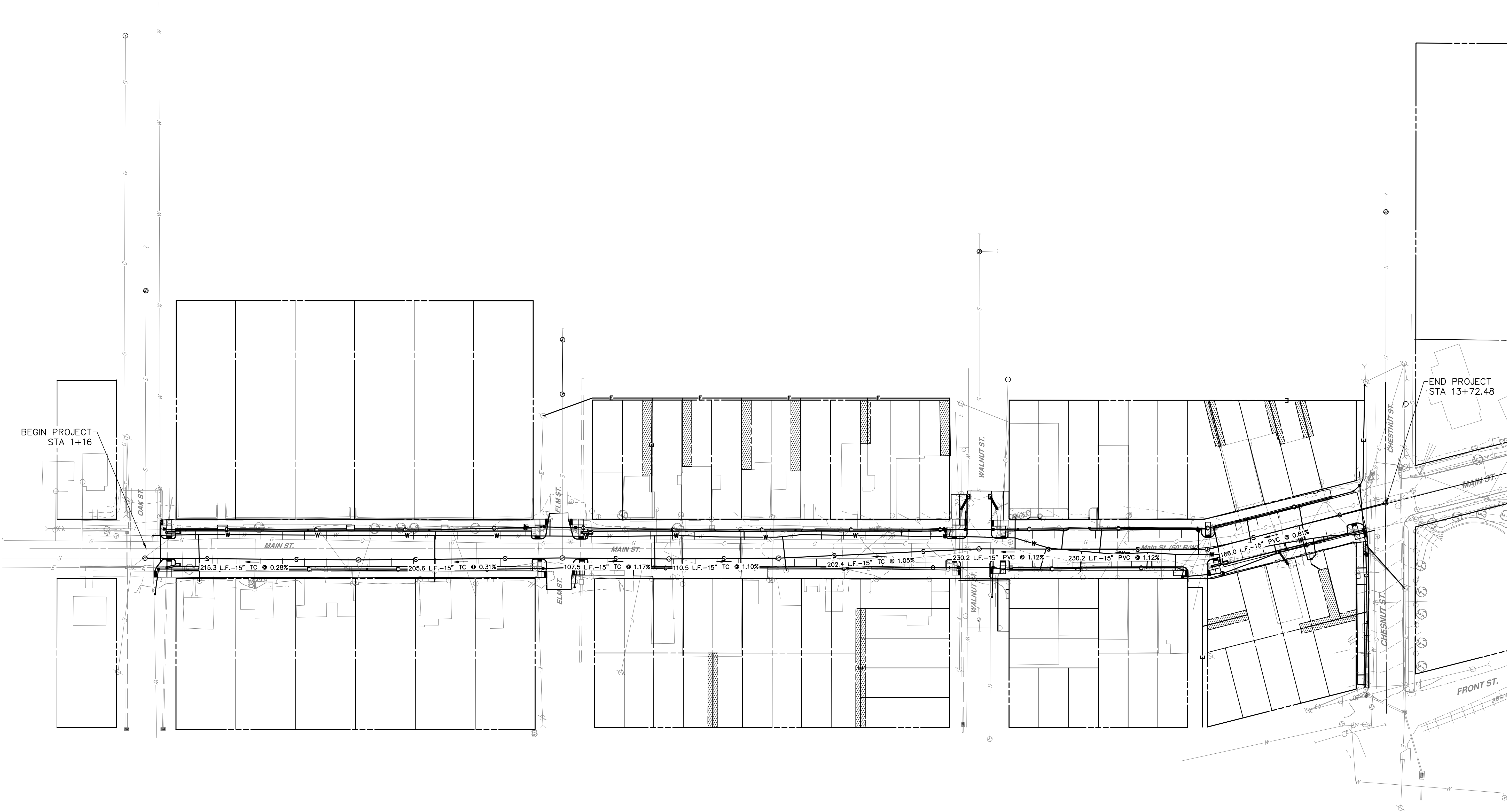
HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 00
CRANBERRY TOWNSHIP, PA 16066
724.779.4777 | hrhg.com



SCALE:
AS SHOWN
DATE: DECEMBER 2024
JOB NO: R007307.0430
DESIGN: SS
DRAWN: SSA
CHECKED: SS
SHEET NO.
L.11 OF L.11

Jul 16, 2026 - 8:55am

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OVERALL UTILITY PLAN

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
724.778.4777 | hrginc.com



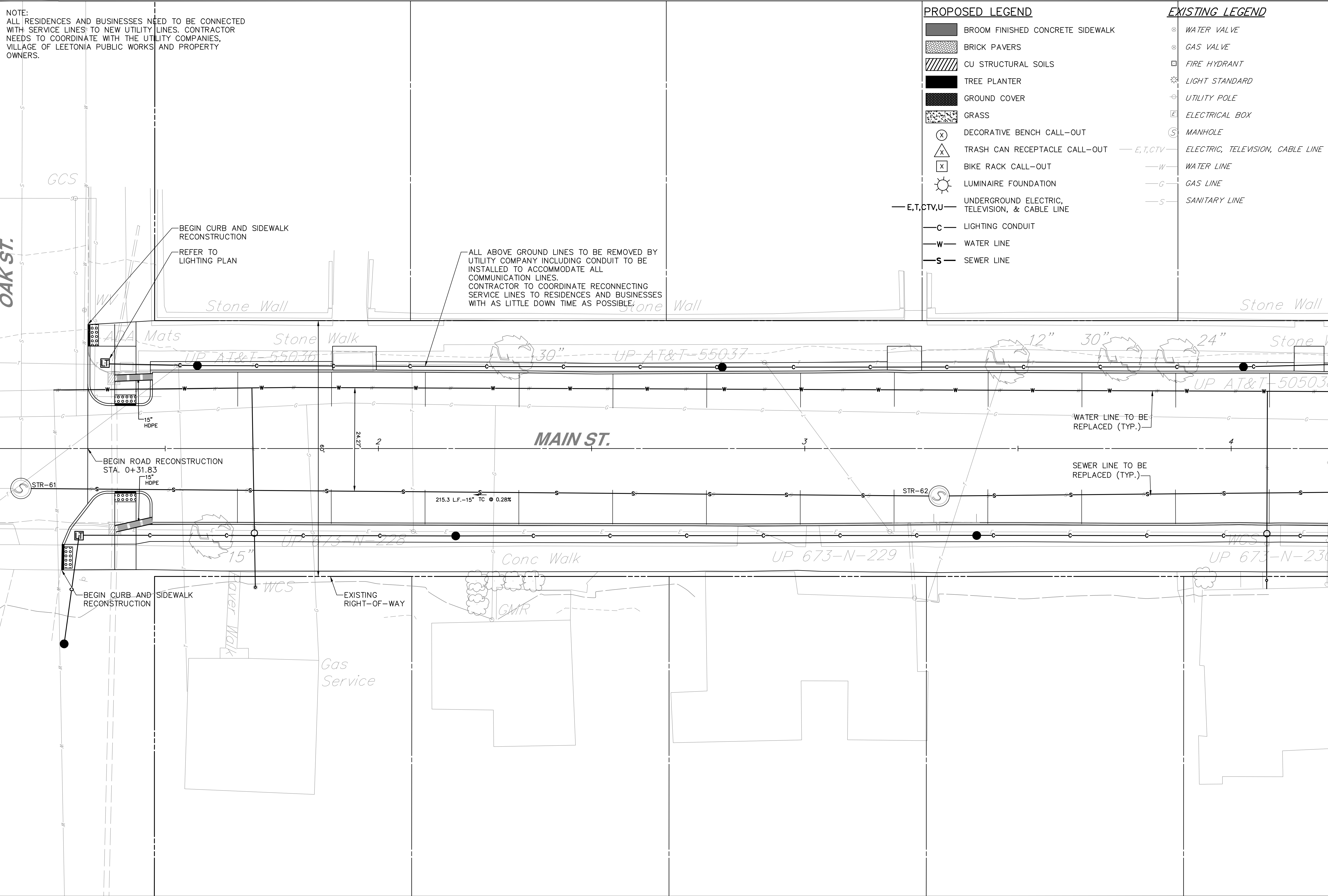
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DATE:	JUNE 1, 2026
JOB NO:	R007307.0430
DESIGN:	ATH
DRAWN:	ATH
CHECKED:	ATH
SHEET NO.	UT.1 OF UT.9

NOTE:
ALL RESIDENCES AND BUSINESSES NEED TO BE CONNECTED WITH SERVICE LINES TO NEW UTILITY LINES. CONTRACTOR NEEDS TO COORDINATE WITH THE UTILITY COMPANIES, VILLAGE OF LEETONIA PUBLIC WORKS AND PROPERTY OWNERS.

OAK ST.

Jul 16, 2026-9:00am
chatten

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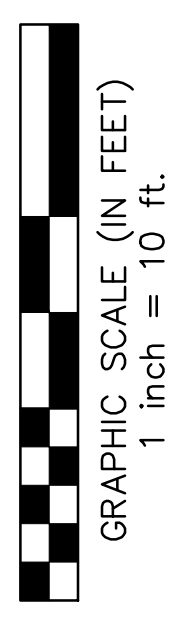
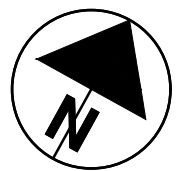


PROPOSED LEGEND

- BROOM FINISHED CONCRETE SIDEWALK
- BRICK PAVERS
- CU STRUCTURAL SOILS
- TREE PLANTER
- GROUND COVER
- GRASS
- DECORATIVE BENCH CALL-OUT
- TRASH CAN RECEPTACLE CALL-OUT
- BIKE RACK CALL-OUT
- LUMINAIRE FOUNDATION
- UNDERGROUND ELECTRIC, TELEVISION, & CABLE LINE
- LIGHTING CONDUIT
- WATER LINE
- SEWER LINE

EXISTING LEGEND

- WATER VALVE
- GAS VALVE
- FIRE HYDRANT
- LIGHT STANDARD
- UTILITY POLE
- ELECTRICAL BOX
- MANHOLE
- ELECTRIC, TELEVISION, CABLE LINE
- WATER LINE
- GAS LINE
- SANITARY LINE



UTILITY PLAN

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

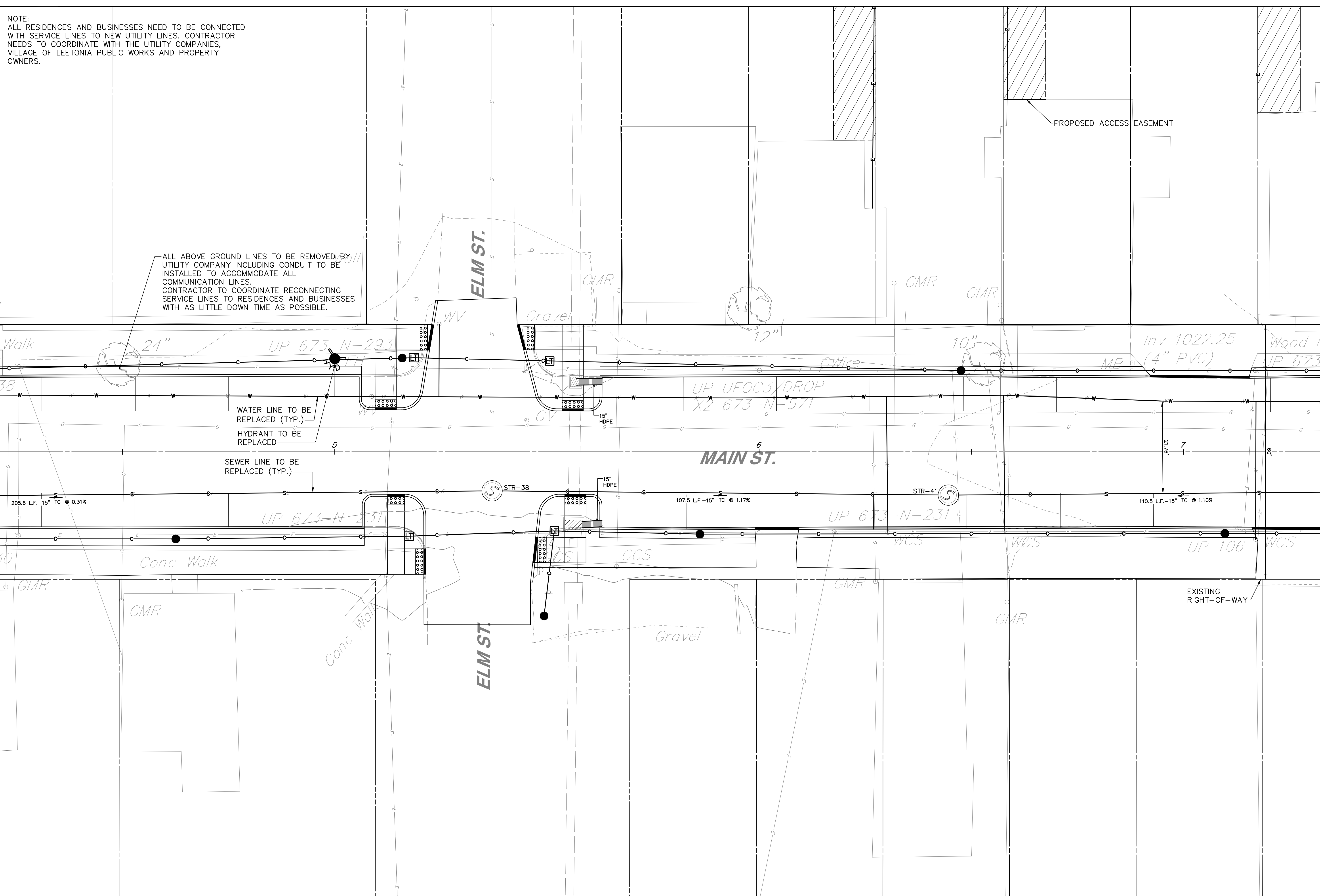
HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
724.778.4777 | hrginc.com



SCALE:	AS SHOWN
DATE:	JUNE 1, 2026
JOB NO:	R007307.0430
DESIGN:	ATH
DRAWN:	ATH
CHECKED:	ATH
SHEET NO.	UT.2 OF UT.9

NOTE:
ALL RESIDENCES AND BUSINESSES NEED TO BE CONNECTED
WITH SERVICE LINES TO NEW UTILITY LINES. CONTRACTOR
NEEDS TO COORDINATE WITH THE UTILITY COMPANIES,
VILLAGE OF LEETONIA PUBLIC WORKS AND PROPERTY
OWNERS.

ALL ABOVE GROUND LINES TO BE REMOVED BY
UTILITY COMPANY INCLUDING CONDUIT TO BE
INSTALLED TO ACCOMMODATE ALL
COMMUNICATION LINES.
CONTRACTOR TO COORDINATE RECONNECTING
SERVICE LINES TO RESIDENCES AND BUSINESSES
WITH AS LITTLE DOWN TIME AS POSSIBLE.



UTILITY PLAN
VILLAGE OF LEETONIA
STREETSCAPE
COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
724.778.4777 | hrginc.com

SCALE:
AS SHOWN

DATE: JUNE 1, 2026
JOB NO: R007307.0430
DESIGN: ATH
DRAWN: ATH
CHECKED: ATH

SHEET NO.
UT.3 OF UT.9

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Jul 16, 2026 9:03am

NOTE:
ALL RESIDENCES AND BUSINESSES NEED TO BE CONNECTED WITH SERVICE LINES TO NEW UTILITY LINES. CONTRACTOR NEEDS TO COORDINATE WITH THE UTILITY COMPANIES, VILLAGE OF LEETONIA PUBLIC WORKS AND PROPERTY OWNERS.

Storm MH Rim 1033.41
Inv In NW 1029.51 (15" TC)
Inv Out SW 1029.31 (15" TC)

UP 673-N-280

Storm Gutter Inlet Rim 1033.00
Inv Out SE 1028.65 (12" SLCPP)

UP UFOC1/DROP
GMR

UP UEL1/UFOC1
DROPS 673-N-23

Conc FH Spigot

WV

WCS

(2) WV

STR-63

230.2 L.F.-15" PVC @ 1.12%

Inlet Type M TG 1030.19
Inv Out SW 1027.26

GCS

WCS

Possible Buried Storm Structures OUPS Paint Marks

EXISTING RIGHT-OF-WAY

WALNUT ST.

WALNUT ST.

PROPOSED ACCESS EASEMENT

Gravel

4" Stl Bol

GMR

UP 672-N-236
UEL5/UTL6 DROPS

WCS

SEWER LINE TO BE REPLACED (TYP.)
CONFIRM ALIGNMENT PRIOR TO CONSTRUCTION

202.4 L.F.-15" TC @ 1.05%

WATER LINE TO BE REPLACED (TYP.)

HYDRANT TO BE REPLACED

Conc Walk

UP 673-N-166

(4" PVC)

Inv 1024.33

Dorch GMR

UP 673-N-572

Storm Gutter Inlet Rim 1029.91 (6" CPP)
Inv Out SW 1029.39 (12"

15" HDPE

15" HDPE

0+25.17

0+27.82

0+30

0+400

0+25.17

0+27.82

0+30

0+400

11.19'

10

9

8

7

6

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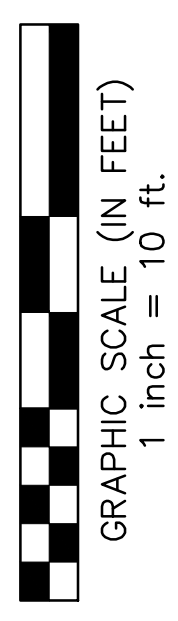
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VILLAGE OF LEETONIA
STREETSCAPE

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBERRY TOWNSHIP, PA 16066
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DATE:	JUNE 1, 2026
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CHECKED:	ATH
SHEET NO. UT.4 OF UT.9	

EXISTING
RIGHT-OF-WAY

BEGIN ROAD
RECONSTRUCTION

HYDRANT TO BE REPLACED_____

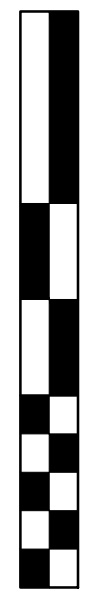
WATER LINE TO BE
REPLACED (TYP.)—

HYDRANT TO BE REPLACED_____

WATER LINE EXTENSION
BOTTLE FILLER
SANITARY SEWER CONNECTION

PROPOSED UTILITY EASEMENT

BEGIN CURB AND SIDEWALK
RECONSTRUCTION



GRAPHIC SCALE (IN FEET)
1 inch = 10 ft.

VILLAGE OF LEETONIA

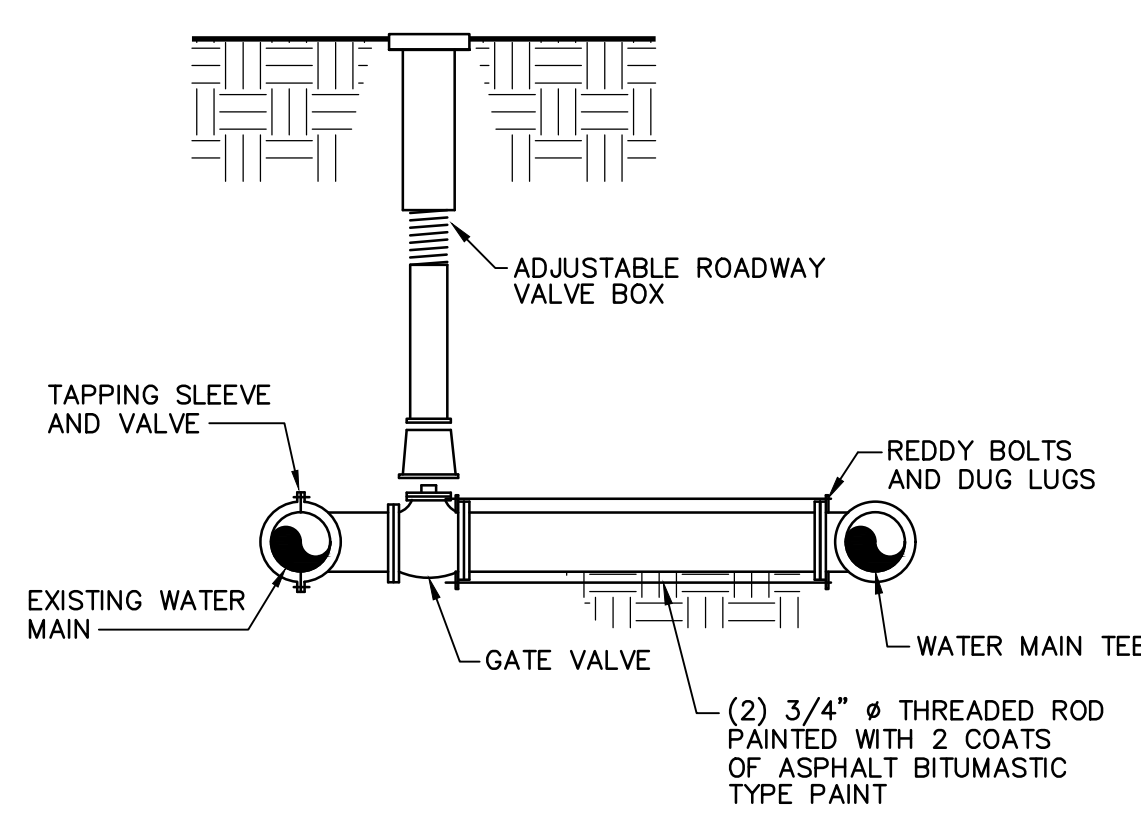
COLUMBIANA COUNTY, OHIO



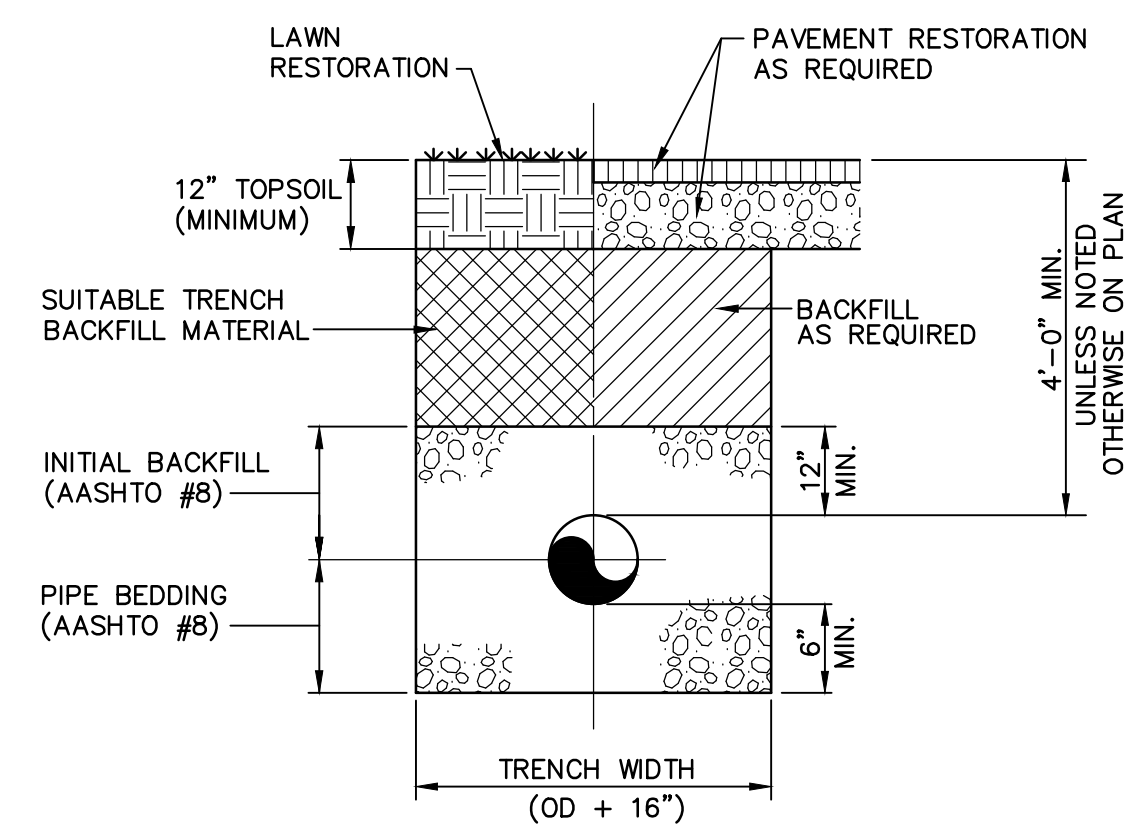
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AS SHOWN

DATE:	JUNE 1, 2026
JOB NO:	R007307.0430
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DRAWN:	ATH
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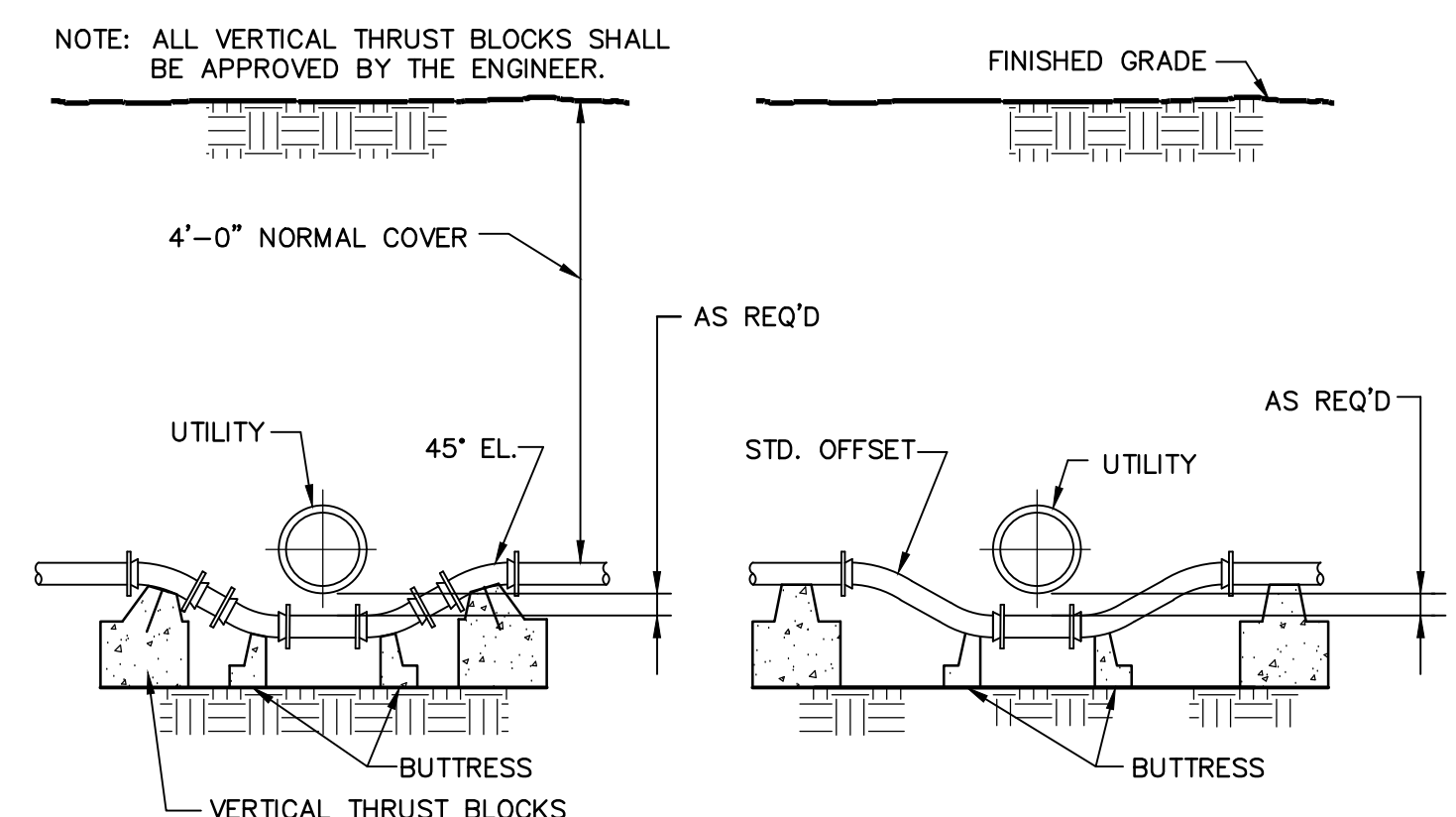
SHEET NO.
UT.5 OF UT.9



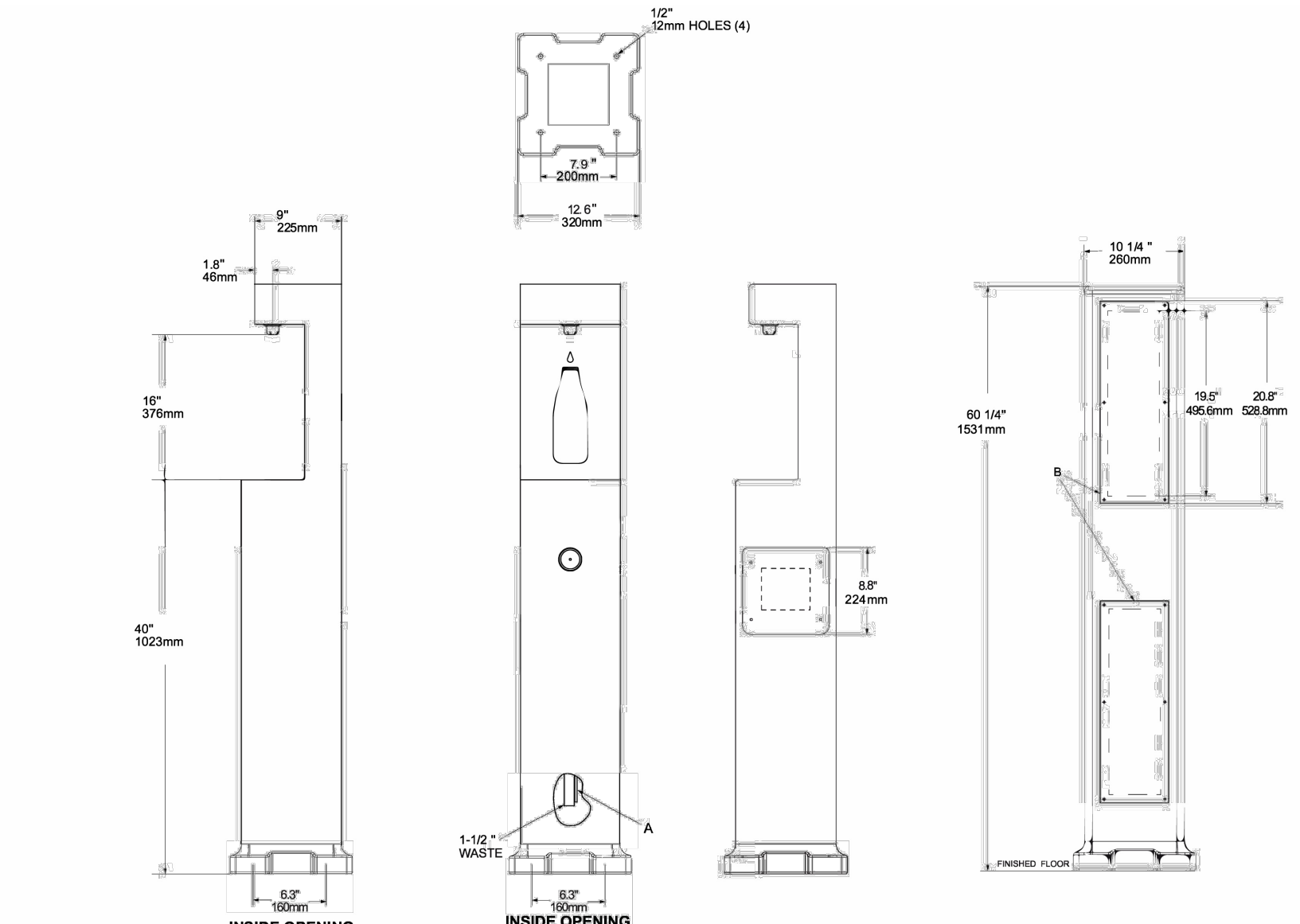
TYPICAL CONNECTION TO EXISTING WATER LINE
NOT TO SCALE



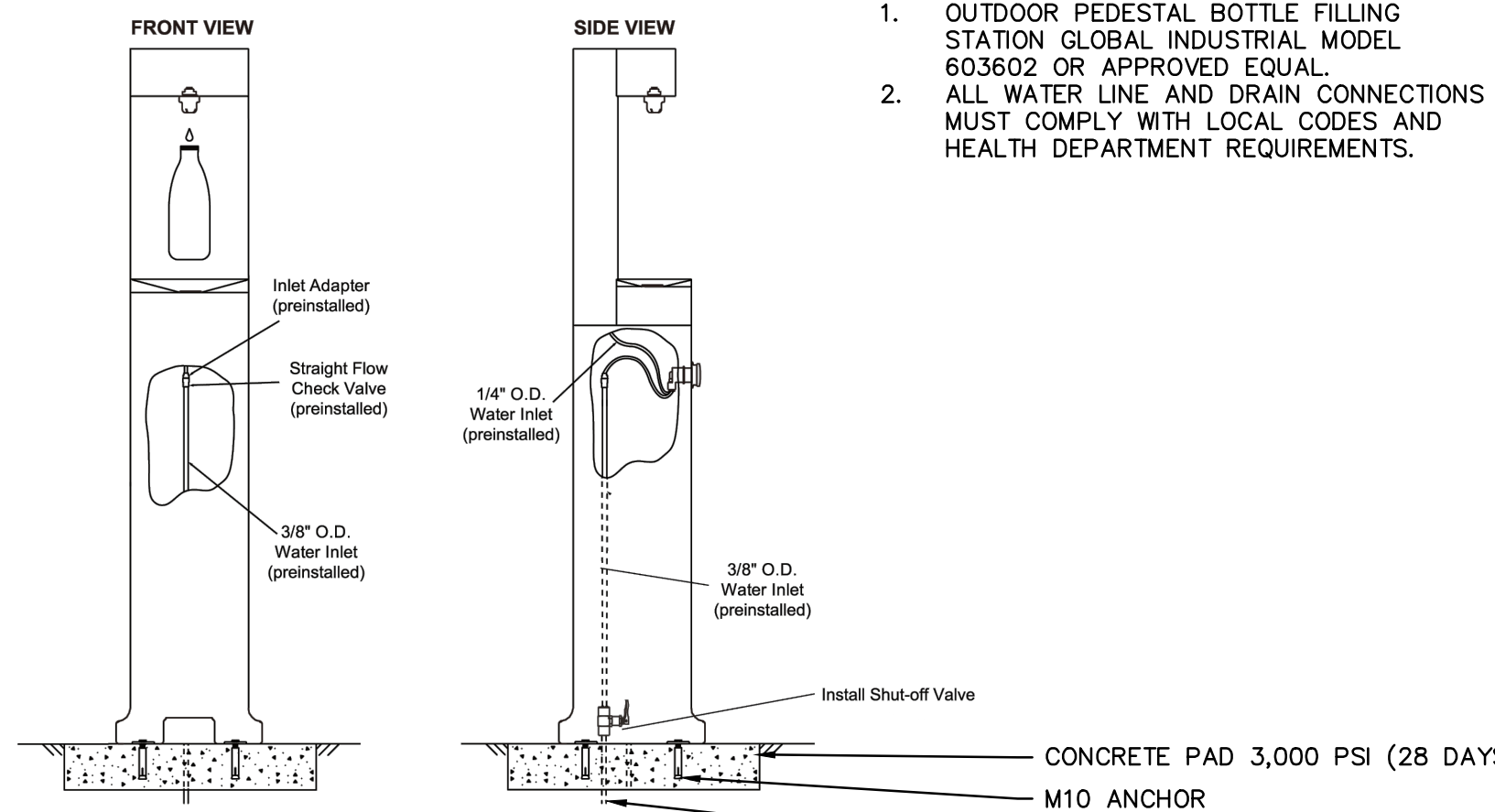
LINE TRENCH DETAIL
NOT TO SCALE



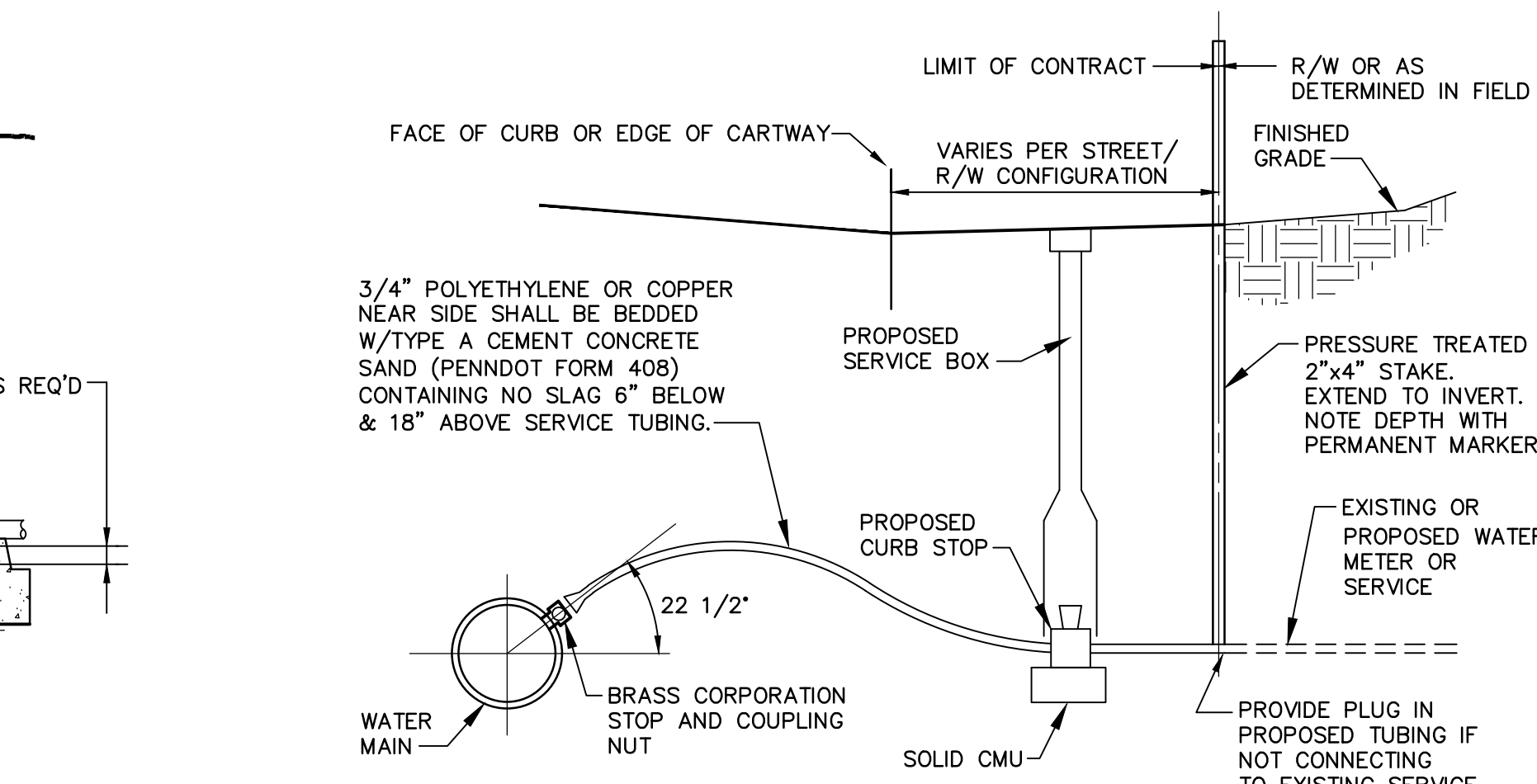
WATER MAIN CROSSING UTILITIES DETAIL
NOT TO SCALE



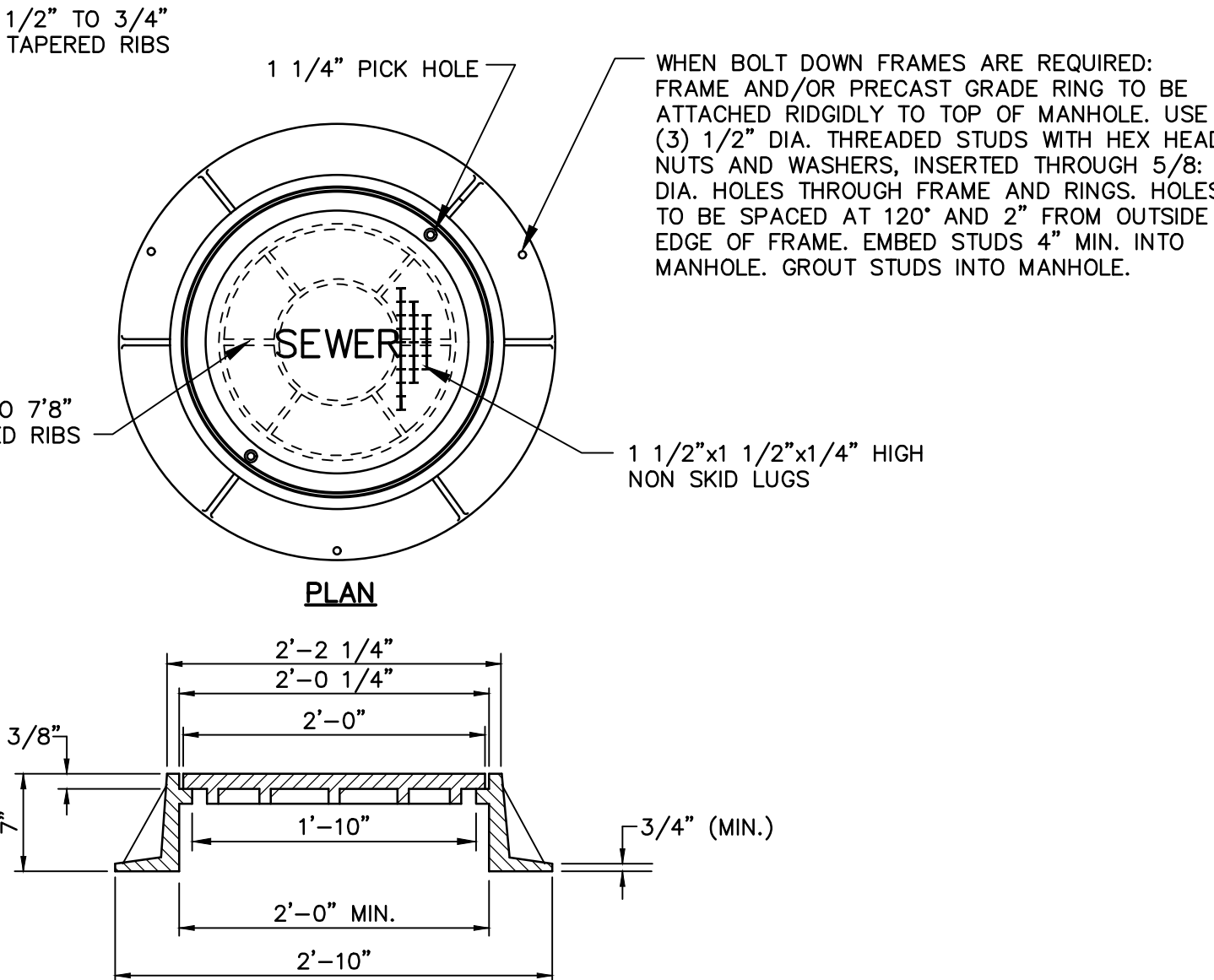
BOTTLE FILLER DETAIL
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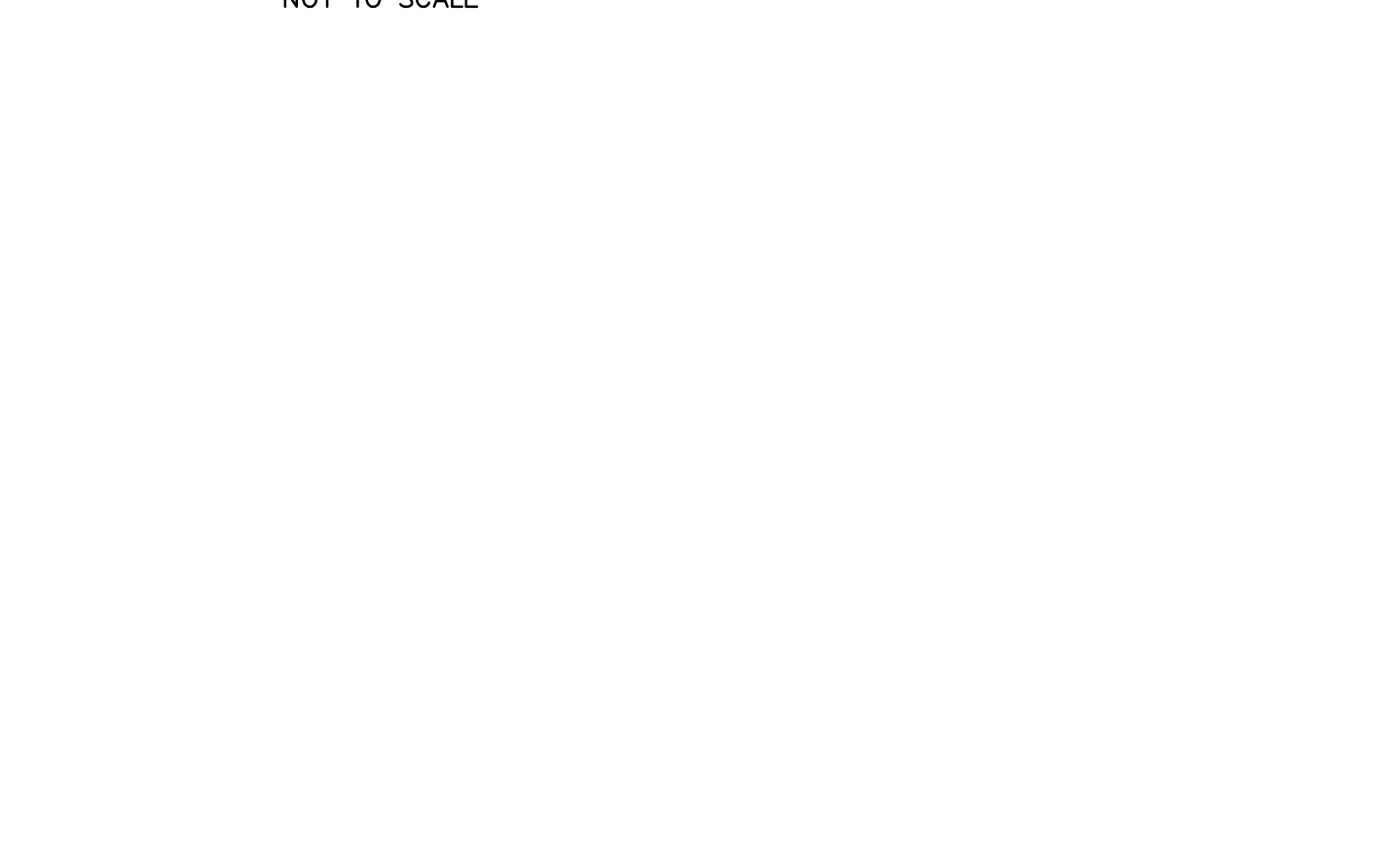
STANDARD MANHOLE FRAME AND COVER
NOT TO SCALE



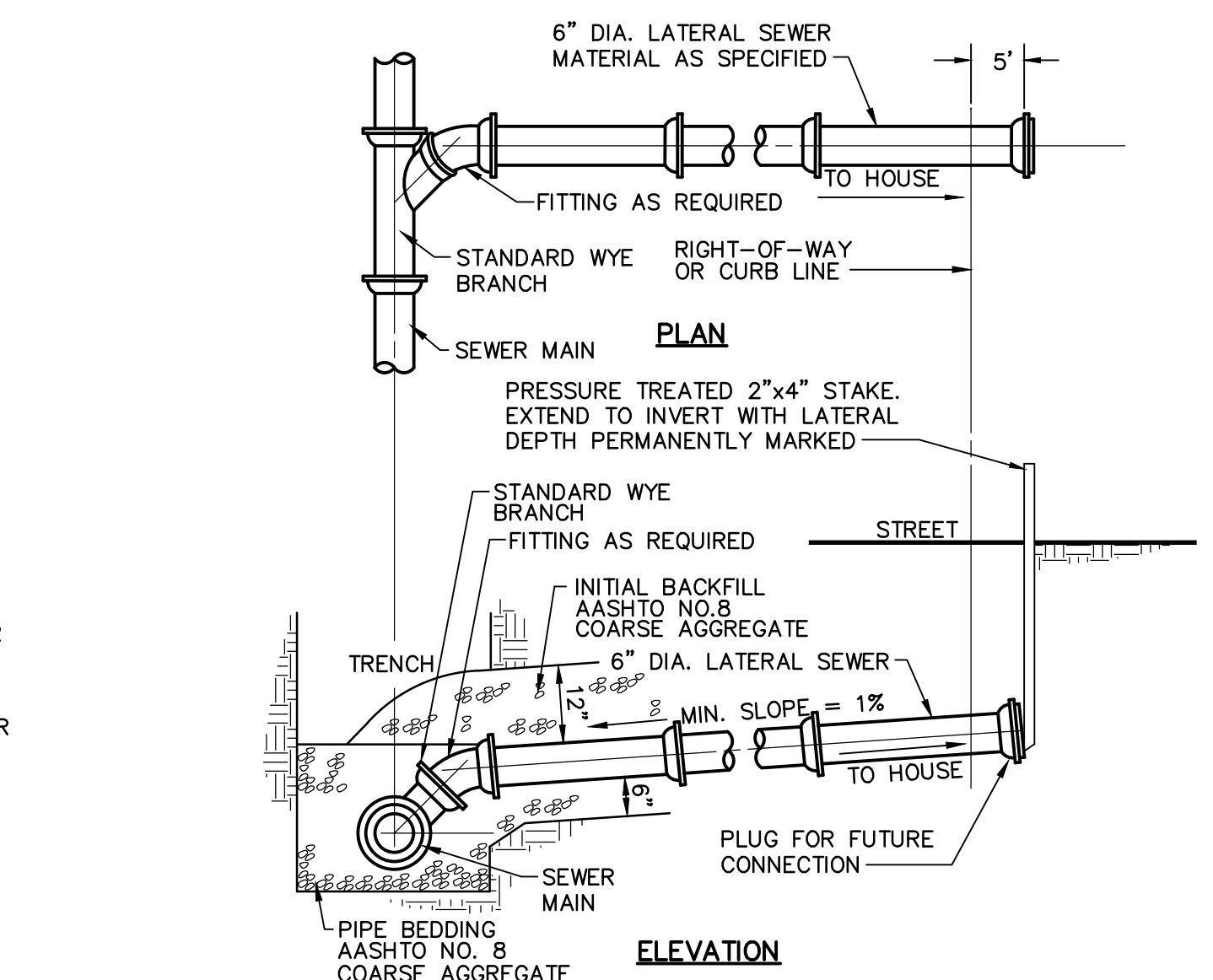
WATER SERVICE LINE INSTALLATION DETAIL
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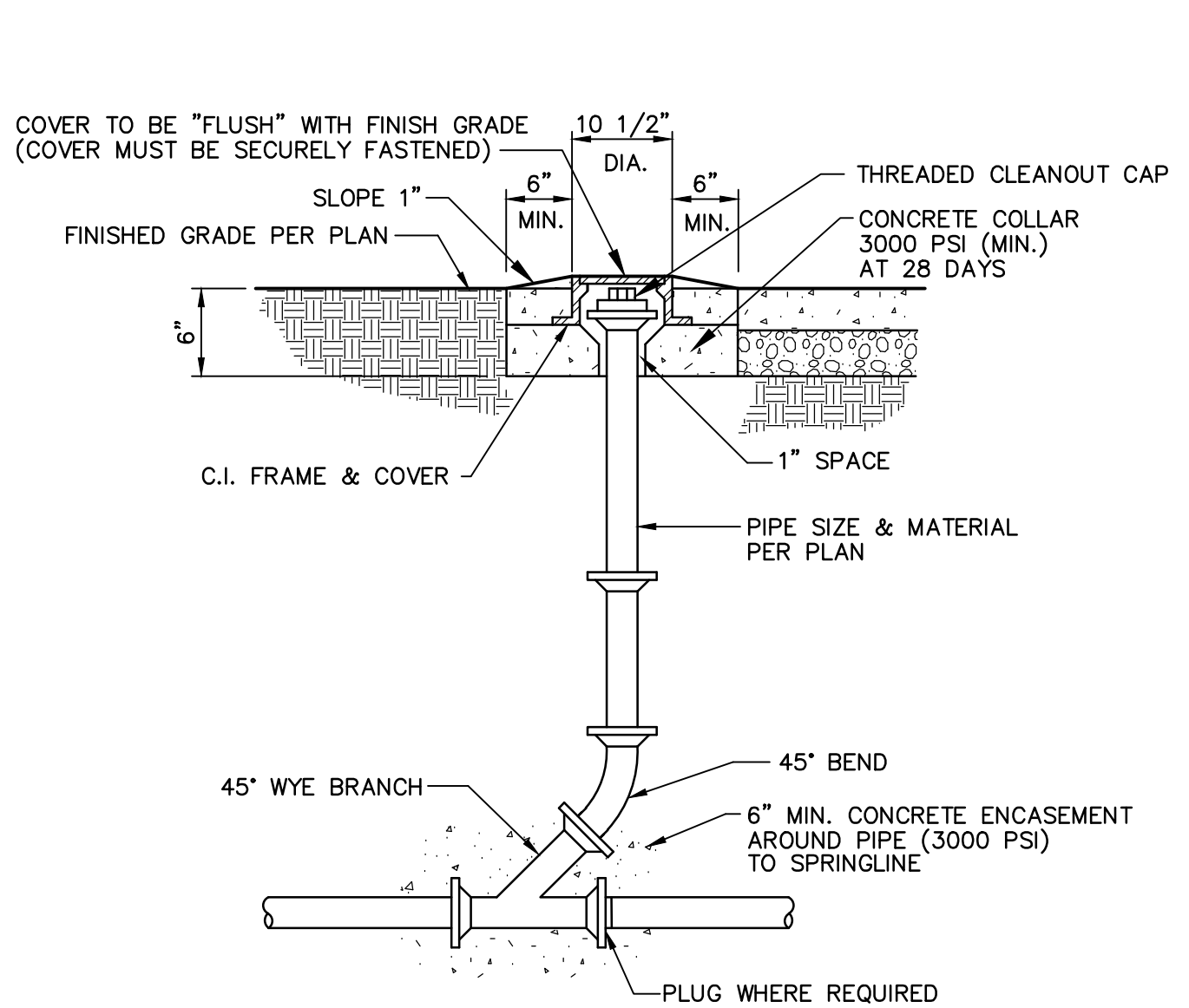
GRAVITY SYSTEM LATERAL CLEANOUT
NOT TO SCALE



CONNECTION TO EXISTING MANHOLE DETAIL
NOT TO SCALE



STANDARD LATERAL DETAIL
NOT TO SCALE



CLEANOUT DETAIL
NOT TO SCALE

UTILITY NOTES AND DETAILS

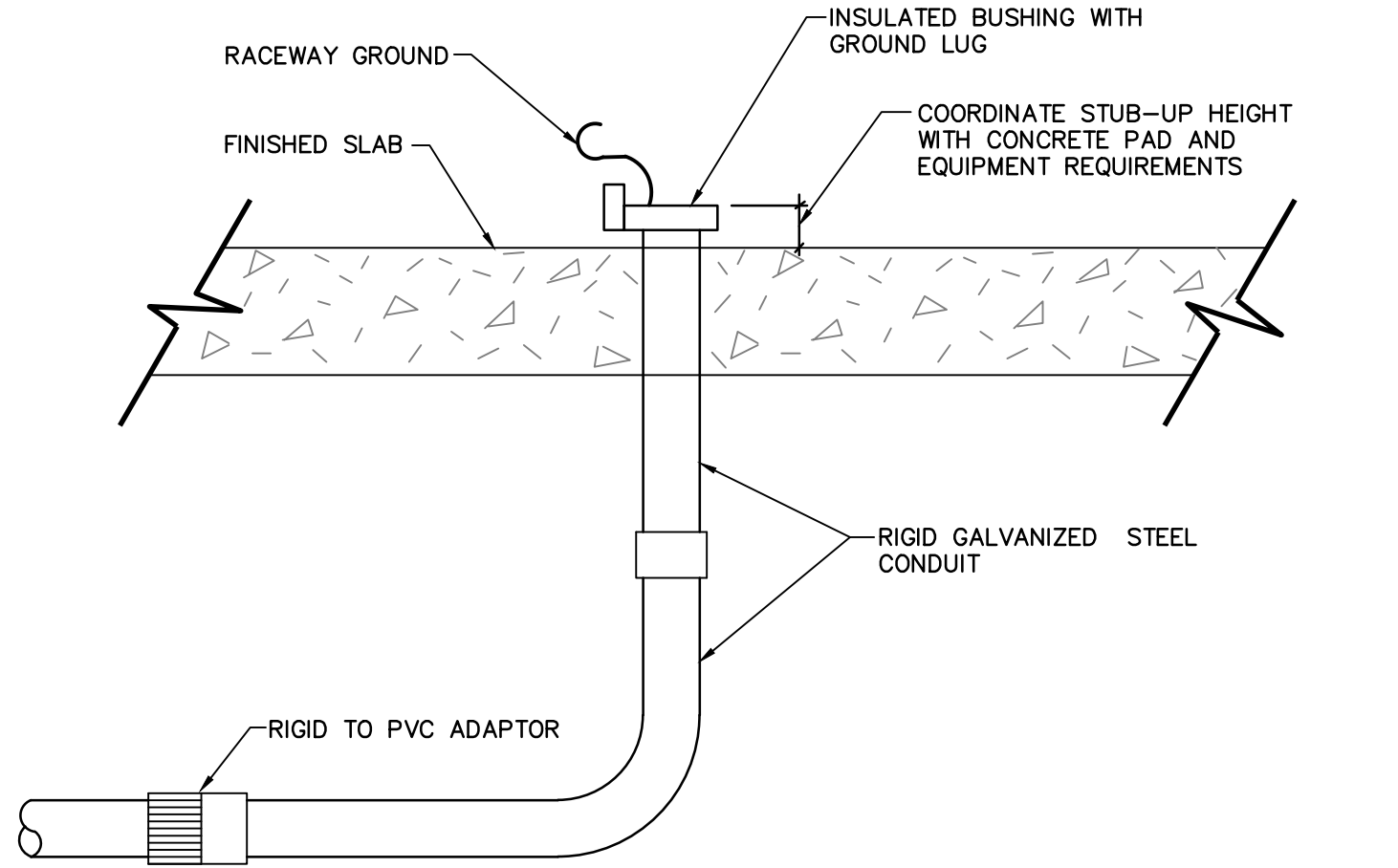
VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HRG
HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
724.778.4777 | hrginc.com

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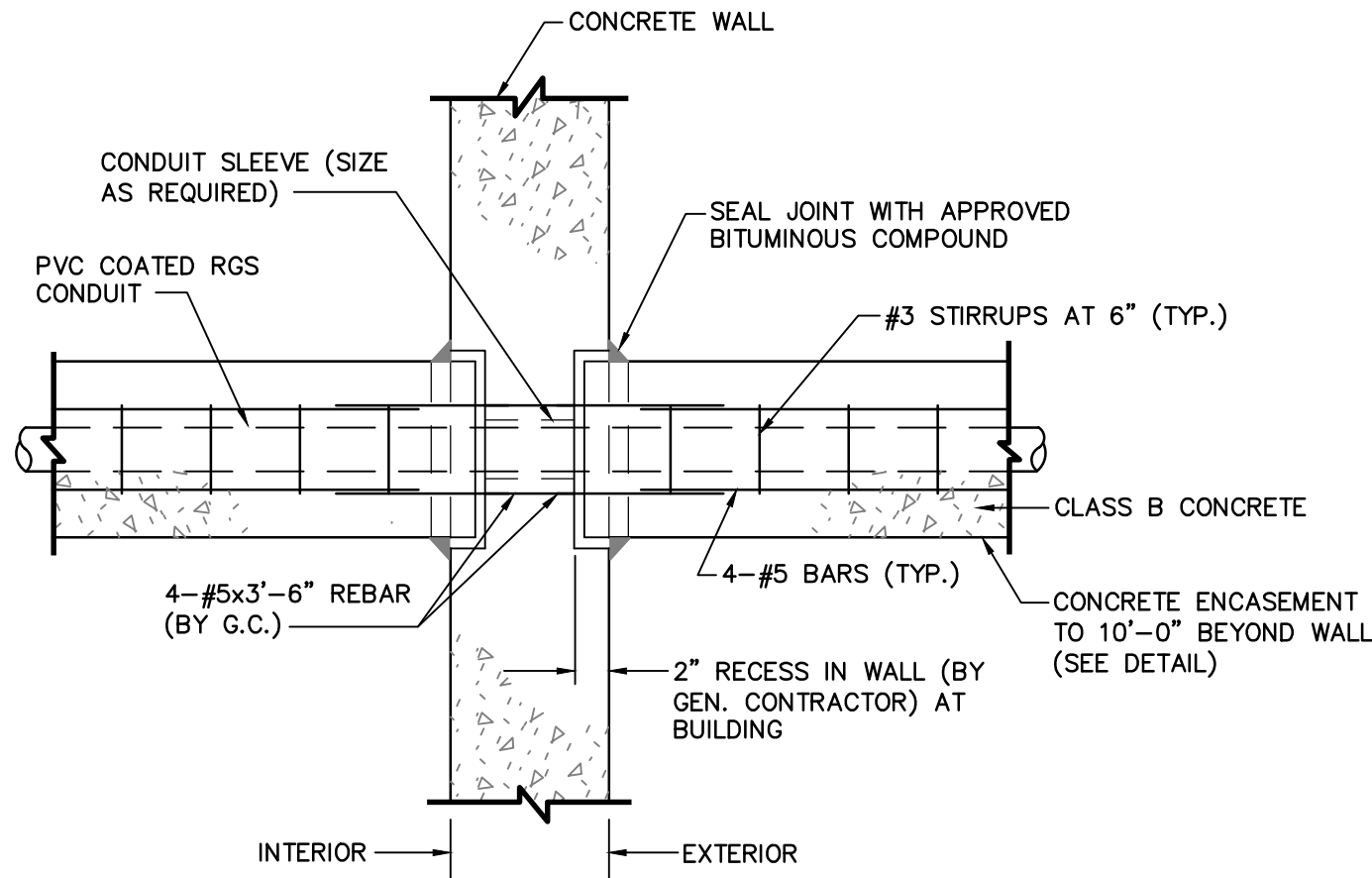


NOTES TO SPECIFIER:

1. THIS DETAIL APPLIES TO ALL UNDERGROUND CONDUITS WHERE PVC IS UTILIZED. PVC SHALL NOT BE EXTENDED ABOVE GRADE UNLESS SPECIFICALLY APPROVED. PVC MAY BE EXTENDED THROUGH SLAB INTO BOTTOM OF SWITCHBOARD.

TYPICAL CONDUIT STUB-UP

NO SCALE

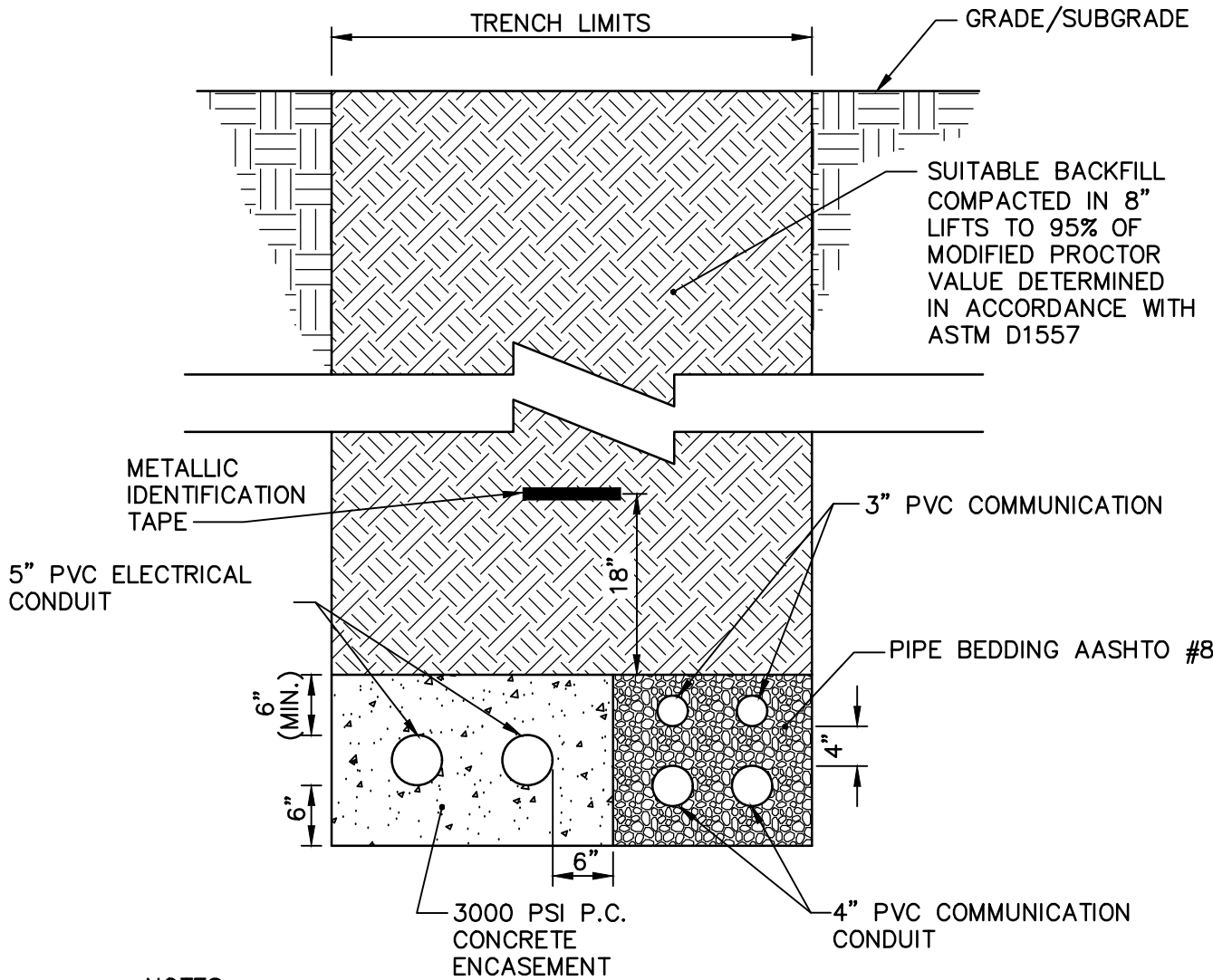


NOTES:

1. ALL REINFORCING BARS TO BE ASTM A615 GRADE 60

ENCASED CONDUIT INSTALLATION AT FOUNDATION WALL (TYP.)

NOT TO SCALE

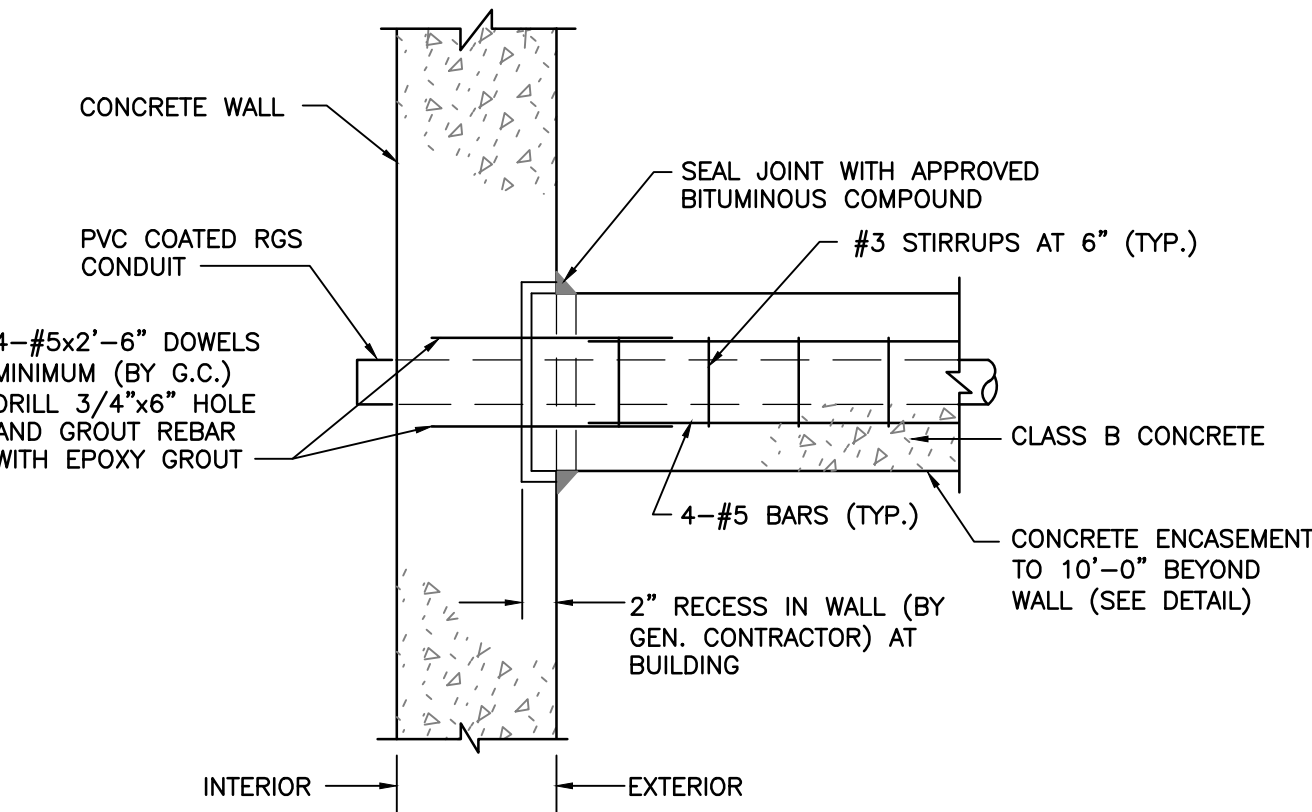


NOTES:

1. CONDUIT INSTALLATION SHALL BE TO UTILITY COMPANY STANDARDS.

ELECTRICAL AND TELECOMMUNICATIONS CONDUIT TRENCHING DETAIL

NOT TO SCALE



NOTES:

1. ALL REINFORCING BARS TO BE ASTM A615 GRADE 60

ENCASED CONDUIT INSTALLATION AT CHAMBER WALL

NOT TO SCALE

Ohio EPA Pipe Specification List

Modified as of July 16, 2023
The following is a list of pipe specifications that the Ohio EPA Division of Surface Water has reviewed and deemed acceptable for installation for various wastewater treatment system applications.

1. Acceptable Gravity Sewer Pipe Specifications

Material	Size	Pipe Specs	Joint Spec	Installation	Comments
ABS / PVC	8" - 15"	ASTM D2680	Varies	ASTM D3260	(2)(4)(5)(12)
ABS	Varies	ASTM D2681	ASTM D3212	ASTM D3231	(1)(5)
ABS-DWV	4" - 6"	ASTM D2681	ASTM D2235	ASTM D3231	(1)(5)
ABS-DWV	4" - 6"	ASTM F508	ASTM D2235	ASTM D3231	(3)(5)
Clay	4" - 30"	ASTM C4	ASTM C425	ASTM C12	(3)
Clay	4" - 42"	ASTM C700	ASTM C425	ASTM C12	(3)
Clay	Varies	ASTM C1208	ASTM C425	ASTM C12	(3)
Concrete	4" - 36"	ASTM C14	ASTM C443	ASTM C12	(3)
Concrete	12" - 144"	ASTM C78	ASTM C443	ASTM C12	(3)
Concrete	36" - 144"	ASTM C478	ASTM C443	ASTM C12	(3) Manholes
Concrete	60" - 144"	ASTM C655	ASTM C443	ASTM C12	(3)
Concrete	Varies	AWWA C300	ASTM C443	ASTM C12	(3)
Concrete	Varies	AWWA C301	ASTM C443	ASTM C12	(3)
Concrete	Varies	AWWA C302	ASTM C443	ASTM C12	(3)
DI	3" - 64"	ASTM A746	AWWA C111	AWWA C600	(3)(5)
DI	14" - 64"	ASTM A716	AWWA C111	AWWA C600	(3)(5)
Fiberglass	Varies	AWWA C590	ASTM D4161	ASTM D3359	(1)
Fiberglass	8" - 144"	ASTM D3262	ASTM D4161	ASTM D3359	(1)
HDPE	3" - 30"	ASTM F3219	ASTM D3212	ASTM D3231	(1)(5)
HDPE	36" - 60"	ASTM F2754	ASTM D3212	ASTM D3231	(1)(5)
PE	18" - 120"	ASTM F84	ASTM D3212	ASTM D3231	(1)(5)(12)
PE	1/2" - 24"	ASTM D3035	ASTM D3212	ASTM D3231	(1)(5)(12)
PVC	8" - 15"	ASTM D2680	Varies	ASTM D2680	(2)(4)(5)(7)(12)
PVC-DWV	Varies	ASTM D2685	ASTM D2664	ASTM D3231	(1)(5)(12)
PVC	4" - 6"	ASTM D2729	ASTM D2664	ASTM D3231	(1)(5)(7)(12)
PVC	4" - 15"	ASTM D3034	ASTM D3212 ASTM D3262	ASTM D3231	(1)(5)(7)(12)
PVC	18" - 36"	ASTM F819	ASTM D3212	ASTM D3231	(1)(5)(7)(12)
PVC	4" - 36"	ASTM F849	ASTM D3212	ASTM D3231	(1)(5)(7)(12)
PVC	4" - 48"	ASTM F754	ASTM D3212	ASTM D3231	(1)(5)(7)(12)
PVC	18" - 60"	ASTM F1803	ASTM D3212	ASTM D3231	(1)(5)(7)(12)
PRC	6" - 144"	ASTM D6783	ASTM D4161	Micro-tunneling	(1)(9)
RTR	8" - 144"	ASTM D3262	ASTM D4161	ASTM D3231	(1)(5)
SRTSP	24" - 120"	ASTM F2562	ASTM D3122	ASTM D3231	(1)(5)

2. Acceptable Leachina TWPipe Specifications

Material	Size	Pipe Specs	Joint Spec	Installation	Comments
Clay	4" - 30"	ASTM C4	ASTM C425	ASTM C12	(3)
Clay	4" - 42"	ASTM C700	ASTM C425	ASTM C12	(3)
PE	4" - 6"	ASTM F847	ASTM D3212	ASTM D3231	(1)(5)
PE	4" - 6"	ASTM F810	ASTM D3212	ASTM D3231	(1)(5)
PVC	4" - 6"	ASTM D2729	ASTM D3212	ASTM D3231	(1)(5)

3. Acceptable Force Main Pipe Specifications

Material	Size	Pressure	Pipe Specs	Joint Spec	Installation	Comments
Concrete	12" - 108"	125 psi	ASTM C361	ASTM C3136	ASTM C12	(3)
DI	3" - 64"	Varies	AWWA C151	AWWA C111	AWWA C600	(1)(5)
HDPE	1/2" - 2"	Varies	ASTM D3335	ASTM F860	ASTM D3212 ASTM F1962	(1)(5)
HDPE	4" - 60"	Varies	AWWA C506	ASTM F2555 ASTM F1962	ASTM D3212 ASTM F1962	(1)(5)
HDPE	1/2" - 2"	Varies	ASTM D2737	ASTM D3367	ASTM D3212 ASTM F1962	(1)(5)
HDPE	1/4" - 48"	Varies	ASTM F714	ASTM F860 ASTM F1962	ASTM D3212 ASTM F1962	(1)(5)
PE	18" - 120"	10.8 psi	ASTM F84	ASTM F860 ASTM F1962	ASTM D3231	(1)(5)
PVC	1/2" - 2"	Varies	ASTM D1785	ASTM D2612 ASTM D3136	ASTM D3231	(1)(8)
PVC	18" - 36"	Varies	ASTM D3241	ASTM D2612 ASTM D3136	ASTM D3231	(1)(8)
RTR	8" - 144"	250 psi	ASTM D3517	ASTM D4161	ASTM D3231	(1)(5)
RTR	8" - 144"	250 psi	ASTM D3754	ASTM D4161	ASTM D3231	(1)(5)
PVCO	6" - 12"	Varies	ASTM F1483	ASTM D3136	ASTM D3231	(1)(5)
PVCO	4" - 12"	150 psi	AWWA C300	ASTM D3136	ASTM D3231	(1)(5)
PVCO	8" - 12"	150 psi	AWWA C506	ASTM D3136	ASTM D3231	(1)(5)
PCCP	18" - 60"	Varies	AWWA C304	ASTM C443	AWWA C12	(3)(5)

4. Acceptable Manholes

Material	Manhole Design	Construction	Testing	Comments
Concrete	ASTM C478	ASTM C443	-	(10)
HDPE	ASTM F1759	ASTM D 3350	ASTM C1244	(10)
PRC	ASTM D6783	-	-	(10) (11)

5. Discontinued Specifications

Material	Pipe Spec	Year Discontinued	Comments
PVC	ASTM D 3033	1987	-
PB	ASTM F859	2021	-
SR	ASTM D2682	2022	-
PE	ASTM F455	2015	Replaced by ASTM F867
Clay	ASTM C498	2017	-
AC	ASTM C428	2022	-
ABS	ASTM D2751	2014	-
HDPE	ASTM F2736	2018	Replaced by ASTM F3216
PVC	ASTM F169	2017	-
RTR	ASTM D 4160	1991	Replaced by ASTM D3940
BF	ASTM D 2313	1992	-
Clay	ASTM C 498	2001	-
SR	ASTM D 508	1987	-

- 1) Class I, II (85% Standard Proctor), or III (90% Standard Proctor) unless otherwise specified. All bedding materials pass 3/4" - 1" sieves.
2) Class I, II, or III only. All bedding materials pass 3/4" - 1" sieves.
3) Class A, B, or C only. All bedding materials pass 3/4" - 1" sieves.
4) Joints that connect two different pipe materials together should meet the following specifications:
a. ABS to ABS, ASTM D 2235
b. ABS to PVC, ASTM D 3338
c. PVC to PVC, ASTM D 2564
d. PVC to PVC, Gasketed, ASTM D 3212
5) Definition of pipe material:
a. ABS = Acrylonitrile butadiene-styrene
b. AC = Asbestos Cement
c. BF = Bituminized Fiber
d. PB = Polybutylene
e. PE = Polyethylene
f. PVC = Polyvinyl Chloride
g. PVC PSM =
h. PVC PSM =
i. RTR = Reinforced thermosetting resin
j. SR = Styrene-rubber
k. DI = Ductile Iron
l. PVCO = Chlorinated Polyvinyl Chloride
m. PCCP = Pre-stressed Concrete Cylinder Pipe
n. PRC = Polymer Reinforced Concrete Pipe
o. DWV = Drain, Waste, & Vent
p. HDPE = High Density Polyethylene Pipe
q. HDPE = High Density Polyethylene Pipe
r. SRTSP = Steel Reinforced Thermoplastic Ribbed Pipe
6) Acceptable gravity sewer and force main pipe may be approved on a case-by-case basis for septic tank leach beds if performed with two rows of 1/4" to 3/4" diameter holes, located 5 inches center to center, and 120" apart. The bedding for a leach line should be 3/4" to 1 1/2" clean gravel. The bedding classification shown under the installation column should be used for the lines from the tank to the fields. Pipes should be laid in sections of 10 linear feet or less. Rotted PE pipe will not be accepted.
7) PVC gravity sewer pipe must meet or exceed SDR 35 (the lower the SDR the thicker the pipe wall thickness).
8) PVC force main must meet or exceed SDR 21, unless the diameter is 4 inches or less, then it must meet or exceed SDR 26.
9) Pipe primarily installed by direct burial and pipe jacking.
10) Acceptable material for manholes.
11) No pipe corrosion, recommended use is Hydrogen Sulfide problem manholes.
12) ASTM D2657 may be used as the joint spec for any polyolefin pipe and fittings, (e.g., polyethylene to polyethylene or polypropylene to polypropylene)
13) Double welded pipe only.

UTILITY NOTES AND DETAILS

VILLAGE OF LEETONIA
STREET/SCALE

COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16806
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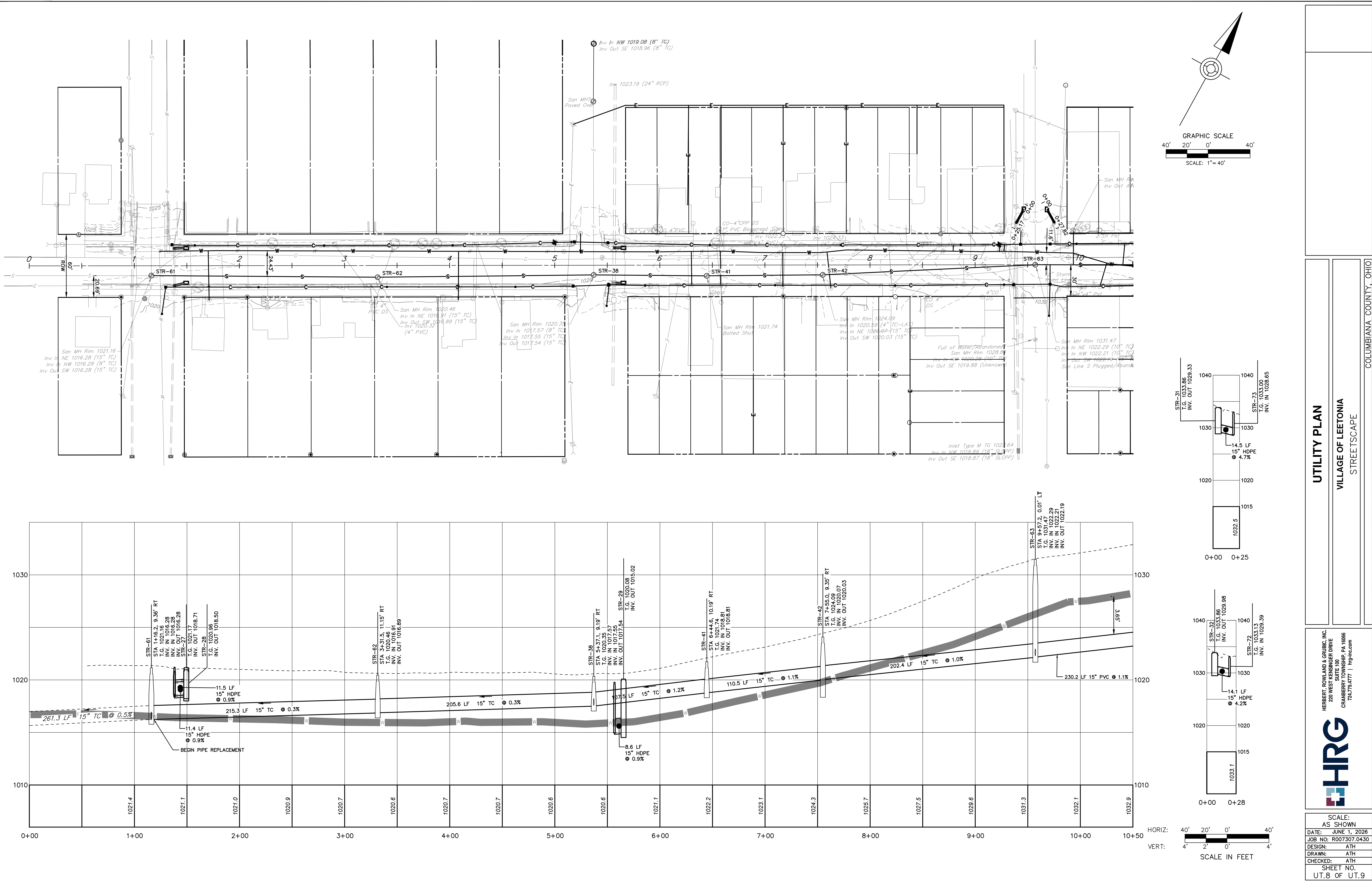


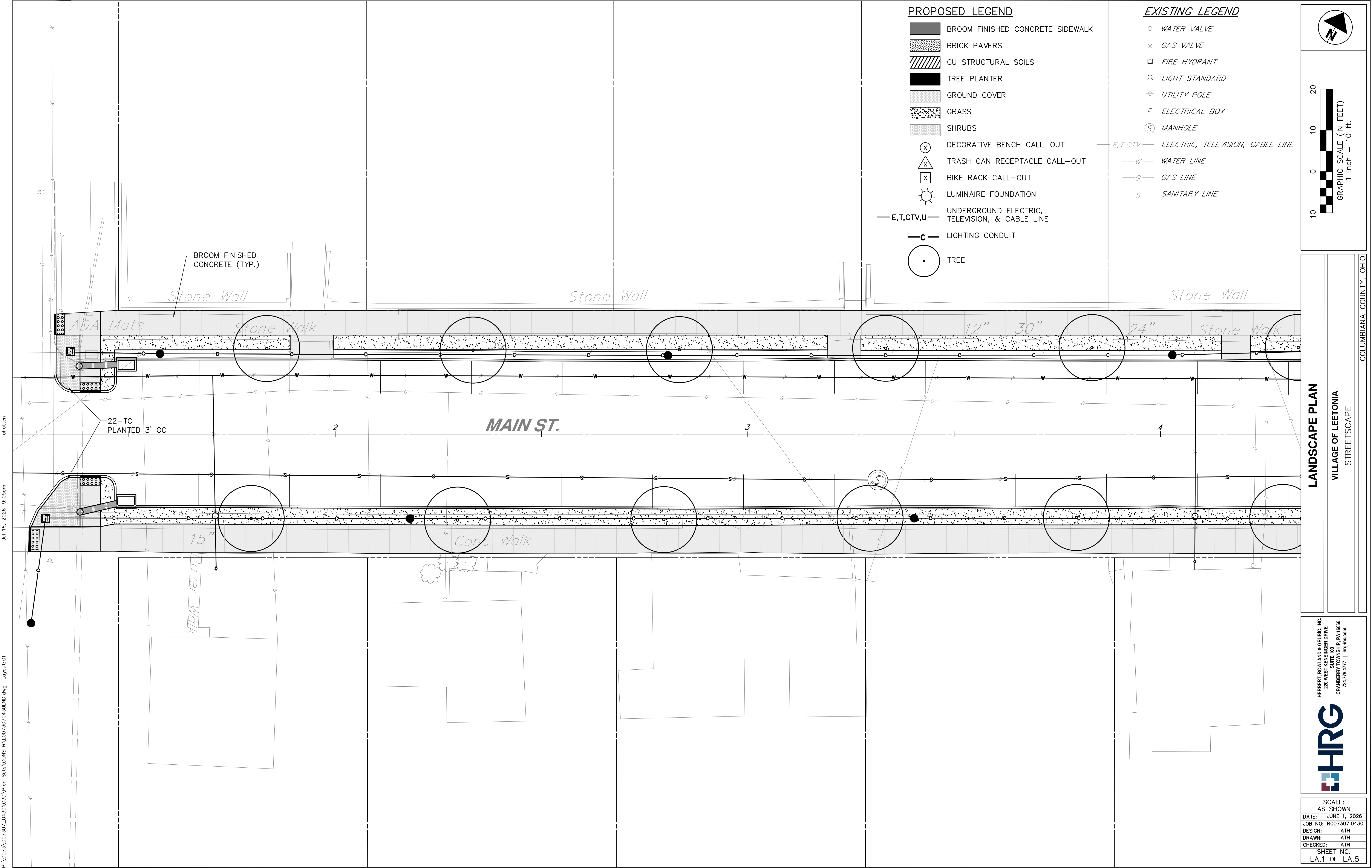
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LANDSCAPE PLAN

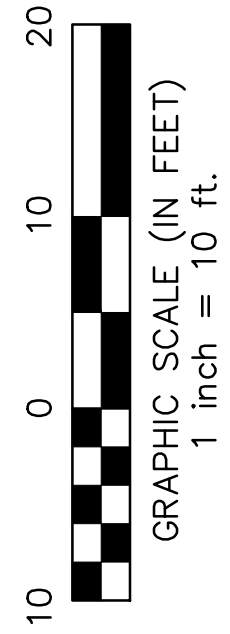
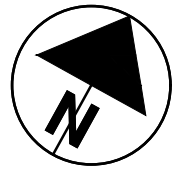
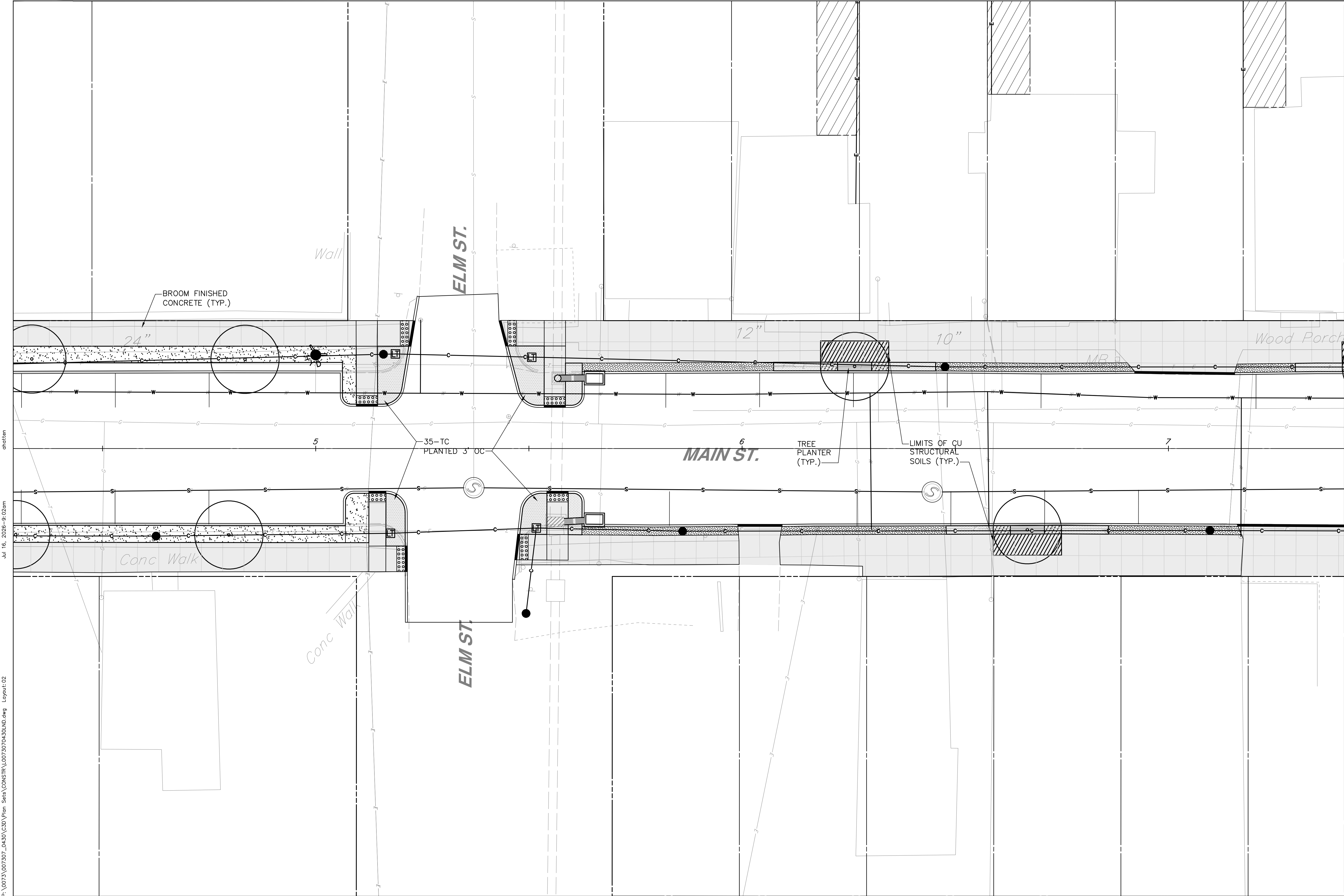
VILLAGE OF LEETONIA

STREETSCAPE

COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.
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SUITE 100
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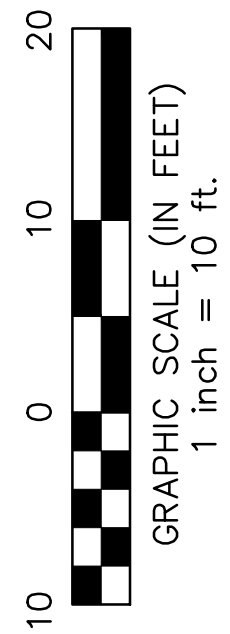
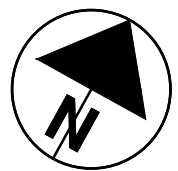
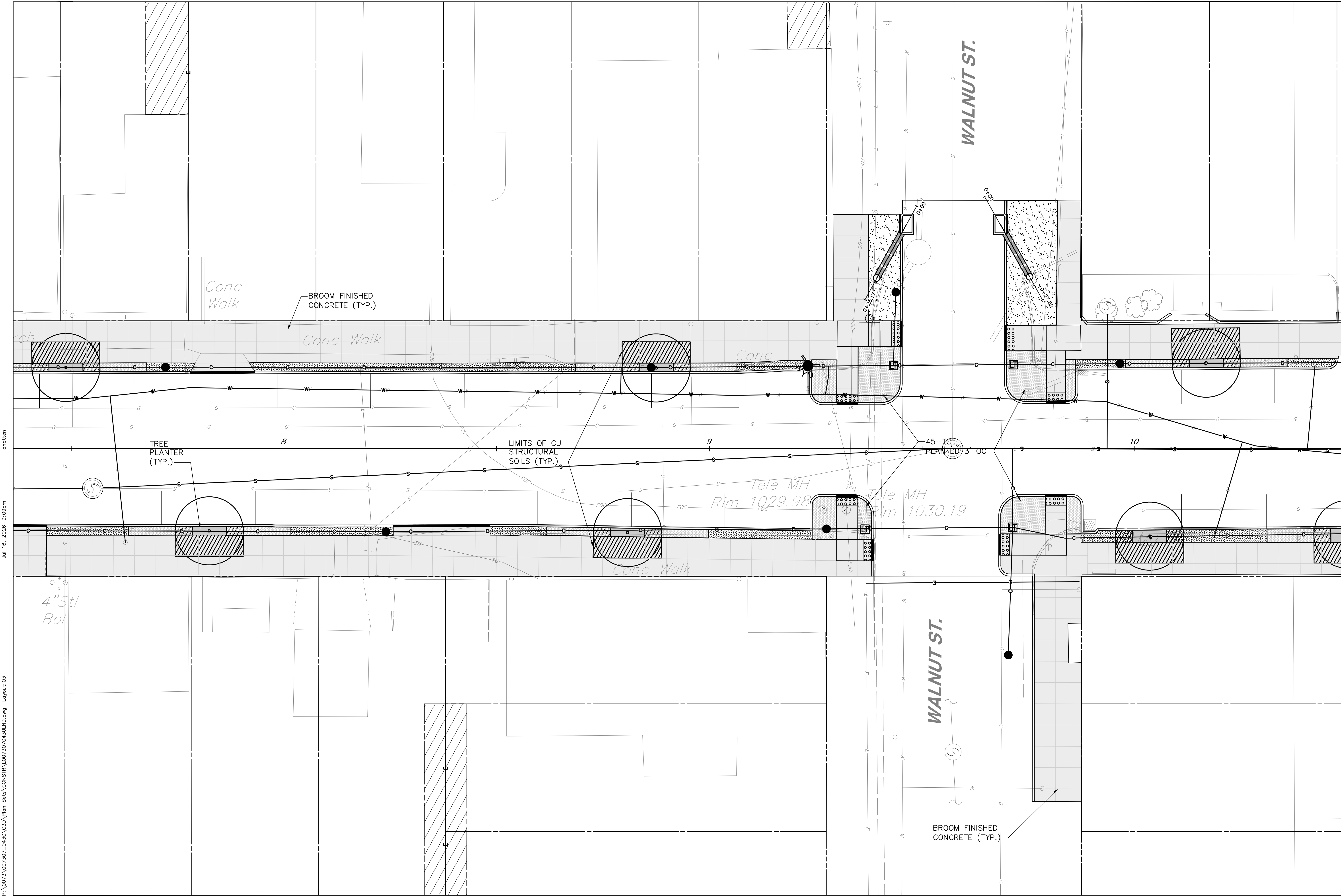
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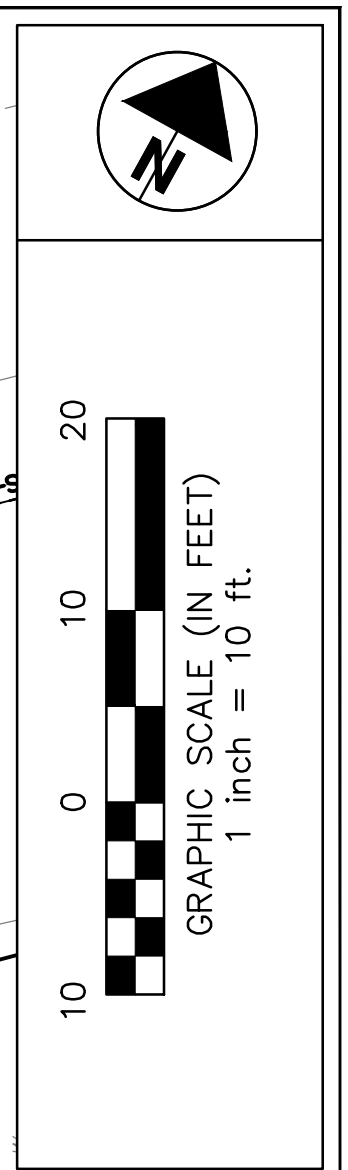
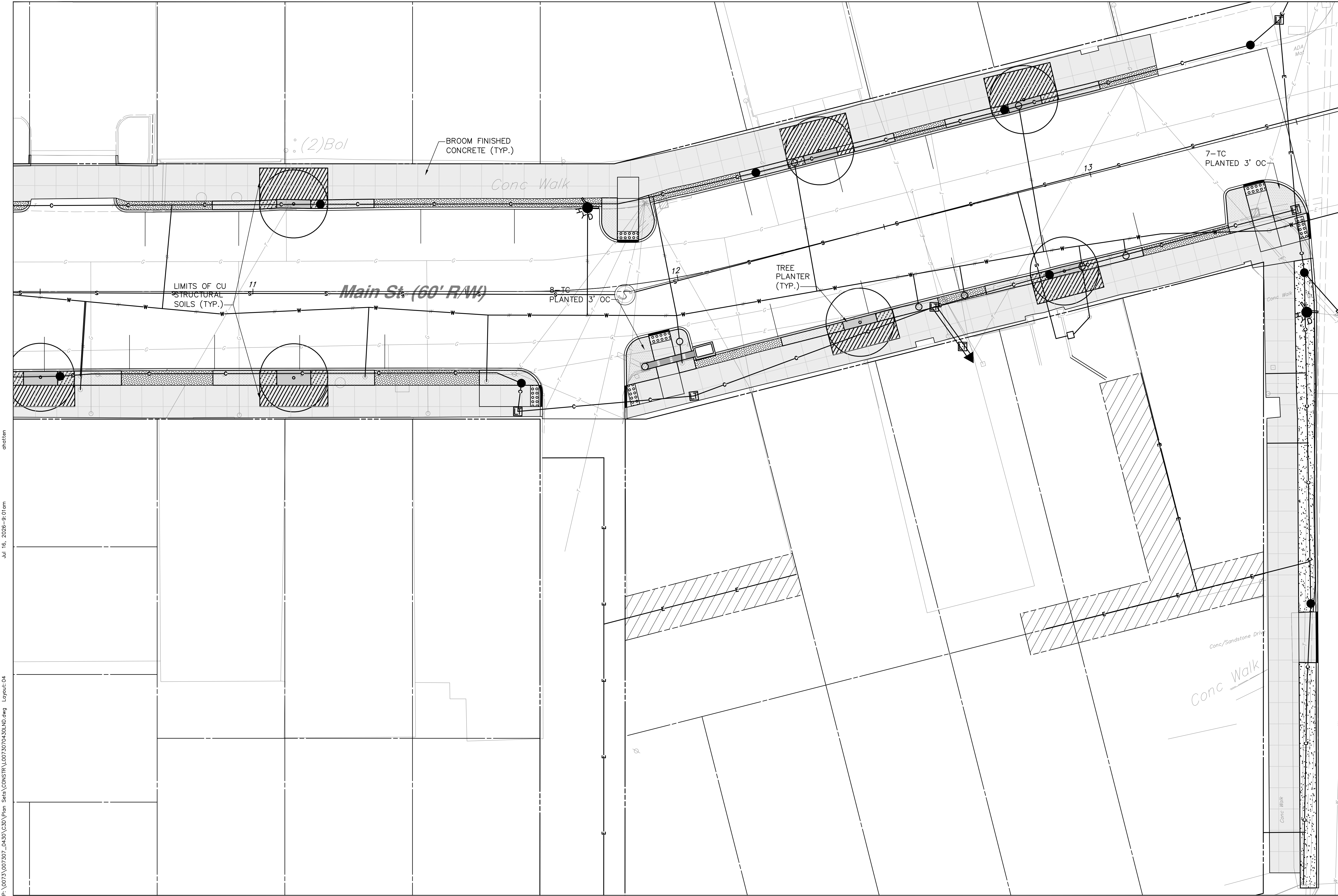
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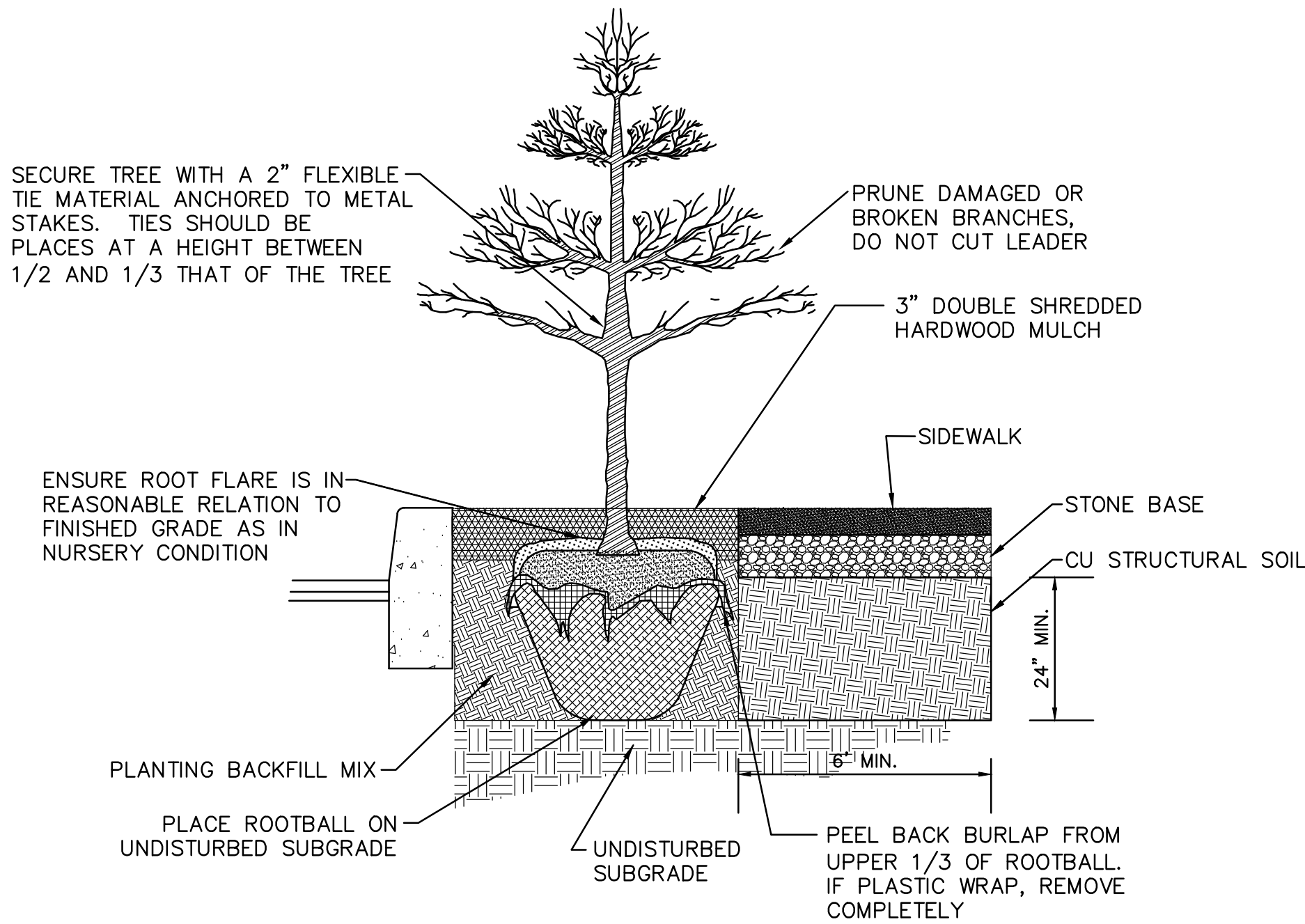


LANDSCAPE PLAN
VILLAGE OF LEETONIA
STREETSCAPE
COLUMBIANA COUNTY, OHIO

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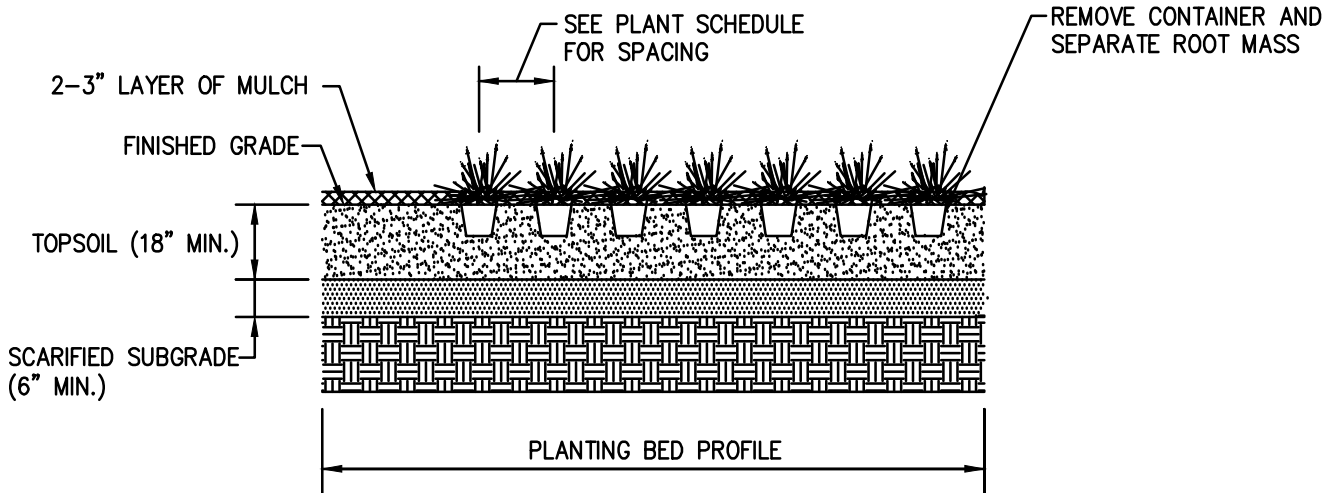
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- NOTES:**
1. SEE PLAN VIEW FOR TREE PLANTER DIMENSIONS.
 2. SEE PLAN VIEW FOR LIMITS OF CU STRUCTURAL SOILS.

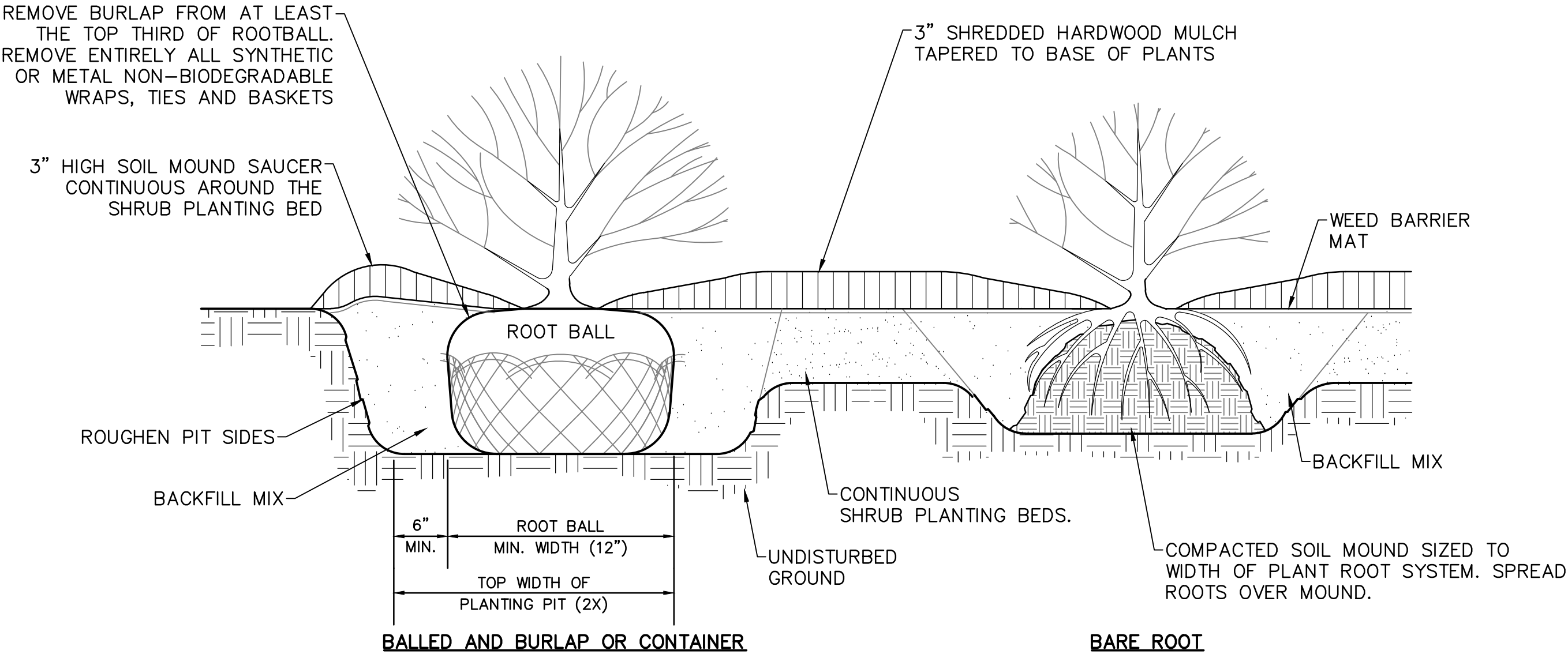
TREE PLANTER DETAIL

N.T.S.



PERENNIAL PLANTING DETAIL

N.T.S.



- NOTES:**
1. SLICE ROOT MASS OF CONTAINERIZED PLANTS ALONG HEIGHT OF ROOTMASS AT 90° INTERVALS
 2. PLANT MATERIAL SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO THE ORIGINAL NURSERY CONDITION.
 3. BACKFILL MIX SHALL BE 3:1 RATIO OF COMPOSTED ORGANIC MATERIAL AND NATIVE SOIL AMENDED IN ACCORDANCE WITH ODOT ITEM 659. BACKFILL SHALL BE TAMPED AND WATERED TO REMOVE VOIDS.
 4. CONTINUOUS SHRUB PLANTING BEDS SHALL THOROUGHLY INCORPORATE 3" OF COMPOSTED ORGANIC MATERIAL INTO THE TOP 6" OF NATIVE SOIL AMENDED IN ACCORDANCE WITH ODOT ITEM 659.

SHRUB PLANTING AND SHRUB BED PREPARATION DETAIL

N.T.S.

LANDSCAPE NOTES

1. FERTILIZE ALL PLANTINGS IN ACCORDANCE WITH ODOT ITEM 661 AND MULCH WITH MIN. 3" SHREDDED AND TANNED OAK BARK AROUND ALL NEW PLANTS IN CONTINUOUS BEDS AS INDICATED ON THE PLAN (FERTILIZE IN SPRING ONLY). A SOIL TEST SHALL BE PERFORMED BY A QUALIFIED LABORATORY. ADJUSTMENT TO PLANT AND FERTILIZER MATERIAL AND APPLICATION SHALL BE MADE AS AUTHORIZED BY OWNER, UNDER THE DIRECTION OF THE DESIGN PROFESSIONAL, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
2. ALL DISTURBED OR DAMAGED AREAS SHALL BE REPAIRED AND REFINISHED WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACES.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF WORK. LOCATIONS OF EXISTING AERIAL OR SUB-SURFACE UTILITY LINES INDICATED ARE APPROXIMATE AND NEITHER THE OWNER NOR ENGINEER GUARANTEE THE ACCURACY OR COMPLETENESS OF THESE LOCATIONS. IF THERE ARE ANY CONFLICTS DUE TO EXISTING OR AS-BUILT CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR FIELD ADJUSTMENT APPROVAL.
4. CONTRACTOR SHALL NOTIFY OHIO 811 BY CALLING 1 (800) 362-2764 OR 811. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DISTURBING ALL EXISTING UTILITY LINES WHETHER MAPPED, MARKED OR ENCOUNTERED DURING CONSTRUCTION.
5. ALL SHRUBBERY AND PLANTS SHALL HAVE A NORMAL HABIT OF GROWTH, AND SHALL BE SOUND, HEALTHY, VIGOROUS AND FREE OF DISEASE, INSECTS, INSECT EGGS AND LARVAE.
6. ALL PLANTINGS AND RELATED WORK SHALL BE PERFORMED IN CONFORMANCE WITH ODOT ITEM 661 SPECIFICATIONS, GOOD NURSERY AND LANDSCAPE PRACTICES AND TO OTHER STANDARDS AS ESTABLISHED BY THE MUNICIPALITY.
7. REQUIREMENTS FOR MEASUREMENT, BRANCHING, GRADING, QUALITY AND BURLAPPING OF ALL PLANT MATERIAL SHALL FOLLOW THE CODE OF STANDARDS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD NURSERY STOCK, ANSIZ60, 1-1990, AS AMENDED.
8. COORDINATE THE PLACEMENT OF THE LANDSCAPING MATERIALS WITH WINDOW OR VENT LOCATIONS AND OTHER SITE IMPROVEMENTS.
9. PRE-EMERGENT HERBICIDE SHALL NOT BE USED ON GROUND COVER AREAS.
10. ALL DISTURBED AREAS NOT LANDSCAPED, PAVED OR BUILT UPON SHALL BE SEEDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH ODOT ITEM 6597 UNLESS OTHERWISE NOTED.
11. CONTRACTOR TO PROVIDE CLEANUP, PROTECTION AND MAINTENANCE OF LANDSCAPED AREA UNTIL OWNER INSPECTION AND ACCEPTANCE.
12. WEED BARRIER MAT SHALL BE INSTALLED ON ALL LANDSCAPED AREAS EXCEPT ON GROUND COVER AREAS.
13. QUANTITIES SHOWN ON THE PLAN SHALL GOVERN IF TOTALS DO NOT AGREE WITH PLANTINGS SCHEDULE QUANTITIES.
14. PLANTS SHALL BE MAINTAINED AND WARRANTED TO BE LIVING AND IN HEALTHY CONDITION FOR AT LEAST 12 MONTHS.

PLANTING SCHEDULE

ID	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	NOTES	SPACING
TREES							
AM	29	ACER MIYABEI 'STATE STREET'	STATE STREET MIYABE MAPLE	2.5"-3"	B&B		AS SHOWN
SHRUBS							
TC	117	THUJA OCCIDENTALIS 'GOLDEN GLOBE'	GOLDEN GLOBE ARBORVITAE	3 GALLON	CONTAINER		3' O.C.
GROUND COVER							
EF	828	EUONYMUS FORTUNEI 'COLORATUS'	PURPLELEAF WINTERCREEPER	3.5"	CONTAINER		18' O.C.

LANDSCAPE NOTES AND DETAILS

VILLAGE OF LEETONIA
STREET/SCAPE

COLUMBIANA COUNTY, OHIO

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LA.5 OF LA.5

EROSION & SEDIMENTATION POLLUTION CONTROL (E&S) NOTES:

CONSTRUCTION SEQUENCE

GENERAL NOTES

- AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE OHIO ONE CALL SYSTEM INCORPORATED AT 1-800-362-2764 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- CLEAR AND GRUB EXISTING VEGETATION AND STRIP TOPSOIL ONLY AS NEEDED AS WORK PROGRESSES. TOPSOIL RESERVED FOR SEEDED AREAS SHALL BE PLACED IN THE TEMPORARY TOPSOIL STOCKPILE LOCATIONS SHOWN ON THE PLAN. TOPSOIL STOCKPILES SHALL NOT EXCEED 5' IN HEIGHT OR REMAIN FOR MORE THAN 14 DAYS.
- UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.
- PLACE TOPSOIL FOR ALL AREAS NEARING FINAL GRADE AS CONSTRUCTION PROGRESSES. IMMEDIATELY STABILIZE WITH SEED AND MULCH OR EROSION CONTROL MATTING, AS REQUIRED, FOR ALL AREAS REACHING FINAL GRADE.
- PROVIDE A CONCRETE WASHOUT FACILITY FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES UNLESS SUCH A FACILITY WILL BE USED AT THE SOURCE OF THE CONCRETE. UNDER NO CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS. WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS. PROVIDE PROPER SIGNAGE SO THAT DRIVERS ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED ON THE PLANS.
- AS CONSTRUCTION PROGRESSES, CONTRACTOR IS RESPONSIBLE FOR RELOCATING EROSION CONTROL DEVICES. THE DEVICES SHOWN ON THIS PLAN ARE THE INITIAL DEVICES FOR THE START OF CONSTRUCTION.
- THE TOTAL TRENCH OPEN IN ONE DAY SHALL BE LIMITED TO THE LENGTH OF TRENCH THAT CAN BE EXCAVATED, PIPE INSTALLED, AND BACKFILLED UP TO GRADE. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. ANY GROUNDWATER ENCOUNTERED DURING EXCAVATION SHALL BE PUMPED THROUGH A FILTER BAG PRIOR TO DISCHARGING.
- DESIGN TEAM, OWNER AND CITY MAY INSPECT EROSION AND SEDIMENT CONTROLS AT ANYTIME AND REQUEST REMEDIATION.

EROSION AND SEDIMENTATION CONTROL NOTES

- FIELD-MARK THE LIMITS OF DISTURBANCE AND ESTABLISH SURVEY BENCHMARKS AND REFERENCE POINTS.
- CONTRACTOR TO INSTALL THE FOLLOWING EROSION AND SEDIMENT CONTROLS IN ACCORDANCE TO THE PLAN. ALL CONTROLS MUST BE PLACED AND APPROVED BY THE DESIGN TEAM PRIOR TO START OF CONSTRUCTION.
- DEMOLITION AND PROPERLY DISPOSE OF WASTES ACCORDING TO OHIO EPA LAWS AND REGULATIONS
- BEGIN ROUGH GRADING THE SITE. STABILIZE ANY AREAS THAT WILL REMAIN UN-DISTURBED FOR MORE THAN 4 DAYS ACCORDING TO THE TEMPORARY SEEDING SCHEDULE. ONCE AN AREA HAS REACHED FINAL GRADE, STABILIZE IT IMMEDIATELY. NO MORE THAN 15,000 S.F. OF DISTURBED AREA CAN REACH FINAL GRADE PRIOR TO INITIATING SEEDING AND MULCHING OPERATIONS.

NOTES:

- THE CONTRACTOR MUST ENSURE THAT RUNOFF IS DIRECTED TO THE EROSION CONTROL FACILITIES AND MUST MAINTAIN POSITIVE DRAINAGE TO THOSE FACILITIES AS CONSTRUCTION PROGRESSES.
 - UPON REACHING FINAL GRADE, SPREAD TOPSOIL, SEED, MULCH, AND INSTALL EROSION CONTROL BLANKET ON ALL SLOPES THAT ARE GREATER THAN OR EQUAL TO 3:1 UNLESS SPECIFICALLY INDICATED ON THE PLAN.
- DESIGN TEAM DOES NOT GUARANTEE A BALANCED SITE. EXCESS FILL/SPOIL IS OWNED BY THE CONTRACTOR.
 - NO EARTHMOVING ACTIVITIES ARE PERMITTED UNTIL E&S MEASURES ARE IN PLACE.
 - INSTALL SITE IMPROVEMENTS IN ACCORDANCE WITH THE PLANS.
 - FINISH SITE GRADING. ONCE FINAL GRADE IS REACHED, SPREAD TOPSOIL, SEED, AND MULCH. DURING ESTABLISHMENT OF PERMANENT GROUND COVER RESEED AND RE-MULCH, ANY AREAS THAT HAVE BECOME ERODED OR DO NOT PROPERLY ESTABLISH AS SHOWN ON THE PLANS.
 - UPON FINAL STABILIZATION (UNIFORM 80% PERENNIAL VEGETATIVE COVER) NOTIFY THE CITY AND ENGINEER FOR FINAL INSPECTION. ONCE THE SITE HAS BEEN DEEMED SITE 80% STABILIZED, THE EROSION AND SEDIMENTATION CONTROLS MAY BE REMOVED. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL SEDIMENT ACCUMULATED BEHIND COMPOST FILTER SOCKS, THEN REMOVE COMPOST FILTER SOCKS AND INLET PROTECTION.

CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE

- IF THE SITE WILL HAVE EXCESS FILL THAT WILL NEED TO BE EXPORTED TO AN OFF SITE LOCATION, THE RESPONSIBILITY OF CLEAN FILL DETERMINATION AND ENVIRONMENTAL DUE DILIGENCE RESTS ON THE APPLICANT. IF ALL CUT AND FILL MATERIALS WILL BE USED ON THE SITE, A CLEAN FILL DETERMINATION IS NOT REQUIRED BY THE OPERATOR UNLESS THERE IS A BELIEF THAT A SPILL OR RELEASE OF A REGULATED SUBSTANCE OCCURRED ON THE SITE.
- ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH OEPA CLEAN FILL POLICY.
- CLEAN FILL IS DEFINED AS UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT (NOT INCLUDING MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE), AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON RECEIVING WATERS UNLESS OTHERWISE AUTHORIZED.
- ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR

AUDITS, ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTIONS AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE.

- FILL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH OEPA'S MUNICIPAL OR RESIDENTIAL WASTE REGULATIONS.

SOILS LIMITATIONS & RESOLUTIONS

THE FOLLOWING ADDRESSES POTENTIAL ON-SITE SOILS USE LIMITATIONS AND PROPOSED RESOLUTIONS:

ROADS SUSCEPTIBLE TO FROST ACTION/NON-SUITABILITY FOR WINTER GRADING – WINTER GRADING SHALL BE LIMITED FROM THE MONTHS OF FEBRUARY 1 TO MARCH 1. IF IT IS DESIRED TO GRADE WITHIN THESE RESTRICTED MONTHS, THE COLUMBIANA SOIL AND WATER CONSERVATION DISTRICT SHALL BE CONTACTED FOR APPROVAL.

TOPSOIL IS ACIDIC – IT IS SUGGESTED THAT SOIL TESTING BE PERFORMED TO EVALUATE THE NEED FOR LIMING TO ACHIEVE THE PROPER PH FOR GRASS ESTABLISHMENT.

MAINTENANCE – EROSION & SEDIMENT CONTROL

- ALL E&S FACILITIES MUST BE INSPECTED WEEKLY AND AFTER EACH PRECIPITATION EVENT. ALL FACILITIES THAT ARE DAMAGED, CLOGGED, OR CAN NO LONGER PERFORM AS DESIGNED, SHALL BE REPLACED. REFER TO DETAILS ON THE PLANS FOR SPECIFIC MAINTENANCE METHODS FOR EACH SEDIMENT-TRAPPING DEVICE.
- ALL SEDIMENT REMOVED FROM SEDIMENT TRAPPING DEVICES SHALL BE DISPOSED OF IN A MANNER THAT WILL NOT CAUSE EROSION OR SEDIMENTATION AND SHALL BE PLACED IN AN AREA WITHIN THE DEFINED LIMITS OF DISTURBANCE.
- ANY PERMANENT SEEDED AREAS THAT BECOME ERODED OR DISTURBED SHALL HAVE THE TOPSOIL REPLACED, THE GRASS RESOWN, AND THE MULCH REAPPLIED, OR AT THE DISCRETION OF THE OWNER, SOD MAY BE INSTALLED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF E&S CONTROLS UNTIL THE SITE IS STABILIZED. PERMANENT STABILIZATION IS DEFINED, AS "A UNIFORM 80% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED", OR THE DISTURBED AREA IS COVERED WITH AN ACCEPTABLE GMP, WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION. UNTIL SUCH TIME AS THIS STANDARD IS ACHIEVED, INTERIM STABILIZATION MEASURES AND TEMPORARY E&S CONTROL BMP'S THAT ARE USED TO TREAT PROJECT RUNOFF MAY NOT BE REMOVED.

RECYCLING & DISPOSAL

PROCEDURES, WHICH ENSURE THAT THE PROPER MEASURES FOR THE RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE, WILL BE UNDERTAKEN. INDIVIDUALS RESPONSIBLE FOR EACH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY, THE CONTRACTOR SHALL PLAN AND IMPLEMENT MEASURES FOR HOUSEKEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL DURING CONSTRUCTION. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL. DISPOSAL OF CONSTRUCTION WASTES SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

GENERAL E&S PROCEDURES

CONTRACTOR IS RESPONSIBLE FOR OBTAINING THEIR OWN NPDES IN ADDITION TO THE ONE ISSUED TO CLIENT.

CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY ENGINEER.

CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL.

GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. CONTRACTOR SHALL CONSTRUCT TEMPORARY BMPS ON DOWN STREAM SIDES.

ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT, ETC.) SHALL BE DETAILED AND PROPERLY CONTAINED.

SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR

TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

ALL DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE, MUST BE STABILIZED TEMPORARILY WITHIN 7 DAYS WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAW/HAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING OR BLANKETS AS SHOWN ON SITE MAP.

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY IS COMPLETED OR IS AT FINAL GRADE SHALL BE PERMANENTLY STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE EROSION CONTROL PLAN.

PERMANENT SOIL STABILIZATION OF DISTURBED AREAS BY MEANS OF VEGETATION, LANDSCAPE TYPE MULCHING, MATTING, SOD, RIP RAP, AND OTHER APPROVED LANDSCAPING TECHNIQUES TO BE APPLIED AS FOLLOWS: WITHIN SEVEN (7) DAYS OF ANY AREA THAT WILL BE DORMANT FOR ONE (1) YEAR OR WITHIN TWO (2) DAYS OF ANY AREA WITHIN 50 FEET OF A STREAM AT FINAL GRADE WITHIN SEVEN (7) DAYS FOR ANY OTHER AREA AT FINAL GRADE.

CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT EROSION AND POLLUTANT DISCHARGE. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING GRADING TO REDUCE RUN-OFF VELOCITIES AND EROSION.

GENERAL CONTRACTOR IS TO DESIGNATE/IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL, DELIVERY AND MATERIAL STORAGE.

FLAMMABLE AND COMBUSTIBLE LIQUIDS WILL BE STORED AND HANDLED ACCORDING TO 29 CFR 1926.152 ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF 25 GALLONS SHALL BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) AND

OHIO STATE EMERGENCY RESPONSE 24 HOUR HOTLINE (800) 282-9378

CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.

MAINTENANCE REQUIREMENTS:

ALL MEASURES STATED ON THIS SITE SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND WATERED, AS MORE. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF WATERING THROUGH THE WARRANTY PERIOD.
- ONCE VEGETATION HAS BEEN RE-ESTABLISHED, REMOVE ALL ROCK CHECK DAMS FROM ROADSIDE SWALES.
- FILTER SOCKS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SOCK WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SOCK. FILTER SOCKS SHOULD BE CLEANED WHEN SEDIMENT REACHES 1/2 HEIGHT OF THE FILTER SOCK.
- THE TEMPORARY PARKING AND STORAGE AREAS SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). A FRESH LAYER OF STONE SHALL BE APPLIED AS REQUIRED.
- PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. DEBRIS AND/OR SEDIMENT REACHING THE MAIN ROADWAY SHALL BE CLEANED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.

EROSION AND SEDIMENT CONTROL NOTES

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16066
724.778.8477 | hrginc.com



SCALE: AS SHOWN	
DATE:	JUNE 1, 2026
JOB NO:	R007307.0430
DESIGN:	ATH
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Specifications
for
Construction Entrance

(Not To Scale)

70 ft. (or 30ft for Access to Individual House Lot)

14ft Minimum
and Not Less
Than Width of
Ingress or Egress

PLAN VIEW

Right of Way Diversion
as Needed

18" or Sufficient
of Divert Runoff

ROAD OR OTHER EXISTING
PAVED SURFACE

CULVERT AS
NEEDED

PROFILE

1. Stone Size—ODOT # 2 (1.5-2.5 inch) stone shall be used, or recycled concrete equivalent.

2. Length—The Construction entrance shall be as long as required to stabilize high traffic areas but not less than 70 ft. (exception: apply 30 ft. minimum to single residence lots).

3. Thickness -The stone layer shall be at least 6 inches thick for light duty entrances or at least 10 inches for heavy duty use.

4. Width -The entrance shall be at least 14 feet wide, but not less than the full width at points where ingress or egress occurs.

5. Geotextile -A geotextile shall be laid over the entire area prior to placing stone. It shall be composed of strong rot-proof polymeric fibers and meet the following specifications:

6. Timing—The construction entrance shall be installed as soon as is practicable before major grading activities.

7. Culvert -A pipe or culvert shall be constructed under the entrance if needed to prevent surface water from flowing across the entrance or to prevent runoff from being directed out onto paved surfaces.

8. Water Bar -A water bar shall be constructed as part of the construction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces.

9. Maintenance -Top dressing of additional stone shall be applied as conditions demand. Mud spilled, dropped, washed or tracked onto public roads, or any surface where runoff is not checked by sediment controls, shall be removed immediately. Removal shall be accomplished by scraping or sweeping.

10. Construction entrances shall not be relied upon to remove mud from vehicles and prevent off-site tracking. Vehicles that enter and leave the construction-site shall be restricted from muddy areas.

11. Removal—the entrance shall remain in place until the disturbed area is stabilized or replaced with a permanent roadway or entrance.

Figure 7.4.1

Geotextile Specification for Construction Entrance

Minimum Tensile Strength200 lbs.

Minimum Puncture Strength80 psi.

Minimum Tear Strength50 lbs.

Minimum Burst Strength320 psi.

Minimum Elongation20%

Equivalent Opening SizeEDS < 0.6 mm.

Permittivity1×10-3 cm/sec.

Specifications
for
Temporary Rolled Erosion Control Product

(Not To Scale)

Erosion Stop Across
Entire Width of Channel

Positive Slope to
Prevent Flow Along
Edge of Matting

Staple Every Outside
Edge Every 2 Feet

Flow

PLAN VIEW

Section

Staple

Overlap Where Two
or More
Matting Widths
are Required

Bury Leading
Edge of New
Roll then Overlap
End of First Roll

Starting New
Roll Profile

Tamped Fill

Bury Leading
Edge in Trench

Lead Edge
Profile

Tamped Fill
Staple

Fold Matting &
Staple to Bottom
of Trench

Erosion Stop
Profile

1. Channel/Slope Soil Preparation Grade and compact area of installation, preparing seedbed by loosening 2"-3" of topsoil above final grade. Incorporate amendments such as lime and fertilizer into soil. Remove all rocks, clods, vegetation or other debris so that installed RECP will have direct contact with the soil surface.

2. Channel/Slope Seeding Apply seed to soil surface prior to installation. All check slots, anchor trenches, and other disturbed areas must be reseeded. Refer to the Permanent Seeding specification for seeding recommendations.

Slope Installation

3. Excavate top and bottom trenches (12"x6"). Intermittent erosion check slots (6"x6") may be required based on slope length. Excavate top anchor trench 2' x 3' over crest of the slope. RECP should be stapled into trench on 12" centers.

4. If intermittent erosion check slots are required, install RECP in 6"x6" slot at a maximum of 30' centers or the mid point of the slope. RECP should be stapled into trench on 12" centers.

5. Install RECP in top anchor trench, anchor on 12" spacings, backfill and compact soil.

6. Unroll RECP down slope with adjacent rolls overlapped a minimum of 3". Anchor the seam every 18". Lay the RECP loose to maintain direct soil contact, do not pull taught.

7. Overlap roll ends a minimum of 12" with upslope RECP on top for a shingle effect. Begin all new rolls in an erosion check slot if required, double anchor across roll every 12".

8. Install RECP in bottom anchor trench (12"x6"), anchor every 12". Place all other staples throughout slope at 1 to 2.5 per square yard dependant on slope. Refer to manufacturer's anchor guide.

Channel Installation

9. Excavate initial anchor trench (12"x6") across the lower end of the project area.

10. Excavate intermittent check slots (6"x6") across the channel at 30' intervals along the channel.

11. Excavate longitudinal channel anchor slots (4"x4") along both sides of the channel to bury the edges. Whenever possible extend the RECP 2'-3' above the crest of channel side slopes.

12. Install RECP in initial anchor trench (downstream) anchor every 12", backfill and compact soil.

13. Roll out RECP beginning in the center of the channel toward the intermittent check slot. Do not pull taught. Unroll adjacent rolls upstream with a 3" minimum overlap (anchor every 18") and up each channel side slope.

14. At top of channel side slopes install RECP in the longitudinal anchor slots, anchor every 18".

15. Install RECP in intermittent check slots. Lay into trench and secure with anchors every 12", backfill with soil and compact.

16. Overlap roll ends a minimum of 12" with upstream RECP on top for a shingling effect. Begin all new rolls in an intermittent check slot, double anchored every 12".

17. Install upstream end in a terminal anchor trench (12"x6"); anchor every 12", backfill and compact.

18. Complete anchoring throughout channel at 2.5 per square yard using suitable ground anchoring devices (U shaped wire staples, metal geotextile pins, plastic stakes, and triangular wooden stakes). Anchors should be of sufficient length to resist pullout. Longer anchors may be required in loose sandy or gravelly soils.

Specifications
for
Geotextile Inlet Protection

2" x 4" Frame

Geotextile over
Wire Mesh Backing

18"

18"

SECTION

Compact
backfill
around
Inlet

1. Inlet protection shall be constructed either before upslope land disturbance begins or before the inlet becomes functional.

2. The earth around the inlet shall be excavated completely to a depth at least 18 inches.

3. The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inch 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 will pose a safety hazard to traffic.

4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.

5. Geotextile material 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.

6. Backfill shall be placed around the inlet in compacted 6-inch layers until the earth is even with notch elevation on ends and top elevation on sides.

7. A compacted earth dike or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.

Specifications
for
Rock Check Dam

(Not to Scale)

Low center section
Must cause flow over
Not around Check Dam

6" Min

Positive Slope

3' Max

CROSS SECTION

4'-8" Rock

Apron

Flow

PROFILE

1. The check dam shall be constructed of 4-8 inch diameter stone, placed so that it completely covers the width of the channel. ODOT Type D stone is acceptable, but should be underlain with a gravel filter consisting of ODOT No. 3 or 4 or suitable filter fabric.

2. Maximum height of check dam shall not exceed 3.0 feet.

3. The midpoint of the rock check dam shall be a minimum of 6 inches lower than the sides in order to direct across the center and away from the channel sides.

4. The base of the check dam shall be entrenched approximately 6 inches.

5. Spacing of check dams shall be in a manner such that the toe of the upstream dam is at the same elevation as the top of the downstream dam.

6. A Splash Apron shall be constructed where check dams are expected to be in use for an extended period of time, a stone apron shall be constructed immediately downstream of the check dam to prevent flows from undercutting the structure. The apron should be 6 in. thick and its length two times the height of the dam.

7. Stone placement shall be performed either by hand or mechanically as long as the center of check dam is lower than the sides and extends across entire channel.

8. Side slopes shall be a minimum of 2:1.

Specifications
for
Temporary Seeding

Table 7.8.1 Temporary Seeding Species Selection

Seeding Dates	Species	Lb./1000 R2	Lb/Acre
March 1 to August 15	Oats	3	128 (4 Bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Annual Ryegrass	1.25	55
	Perennial Ryegrass	3.25	142
	Creeping Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
August 16th to November	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Rye	3	112 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Wheat	3	120 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
November 1 to Feb. 29	Annual Ryegrass	1.25	40
	Perennial Ryegrass	3.25	40
	Creeping Red Fescue	0.4	40
	Kentucky Bluegrass	0.4	40
	Use mulch only or dormant seeding		

Note: Other approved species may be substituted.

1. Structural erosion and sediment control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction site.

2. Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 21 days or greater. These idle areas shall be seeded within 7 days after grading.

3. The seedbed should be pulverized and loose to ensure the success of establishing vegetation. Temporary seeding should not be postponed if ideal seedbed preparation is not possible.

4. Soil Amendments—Temporary vegetation seeding rates shall establish adequate stands of vegetation, which may require the use of soil amendments. Base rates for lime and fertilizer shall be used.

5. Seeding Method—Seed shall be applied uniformly with a cyclone spreader, drill, cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption.

3. Straw Mulch shall be anchored immediately to minimize loss by wind or water. Anchoring methods:

Mechanical—A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but left to a length of approximately 6 inches.

Mulch Netting—Netting shall be used according to the manufacturers recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.

Synthetic Binders—Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petrosel, Terra Track or equivalent may be used at rates recommended by the manufacturer.

Wood-Cellulose Fiber—Wood-cellulose fiber binder shall be applied at a net dry wt. of 750 lb./ac. The wood-cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb. / 100 gal.

• Straw—If straw is used, it shall be unrotted small-grain straw applied at a rate of 2 tons per acre or 90 lbs. / 1,000 sq. ft. (2-3 bales)

• Hydroseeders—If wood cellulose fiber is used, it shall be used at 2000 lbs. / ac. or 46 lb. / 1,000-sq.-ft.

• Other—Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 ton/ ac.

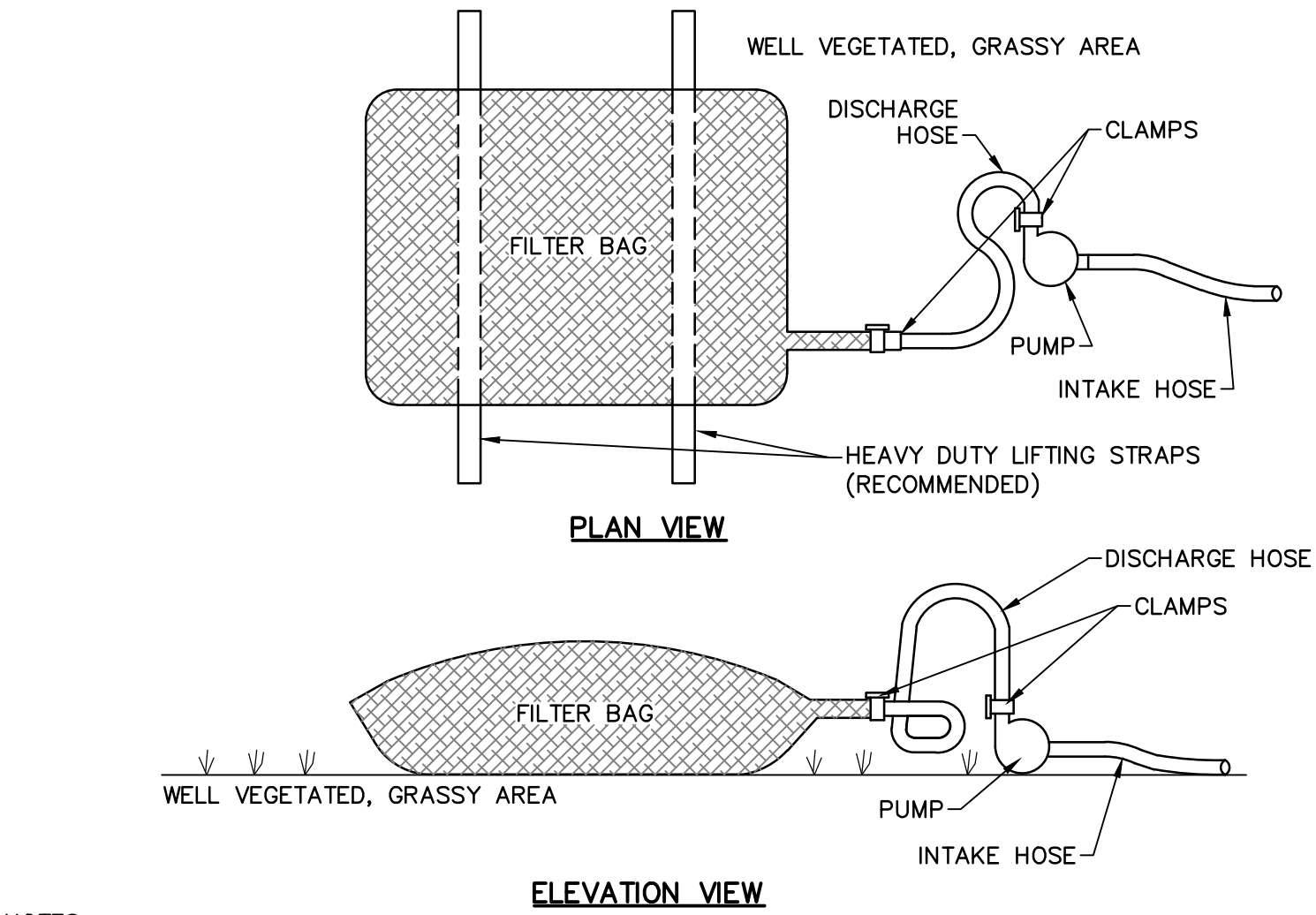
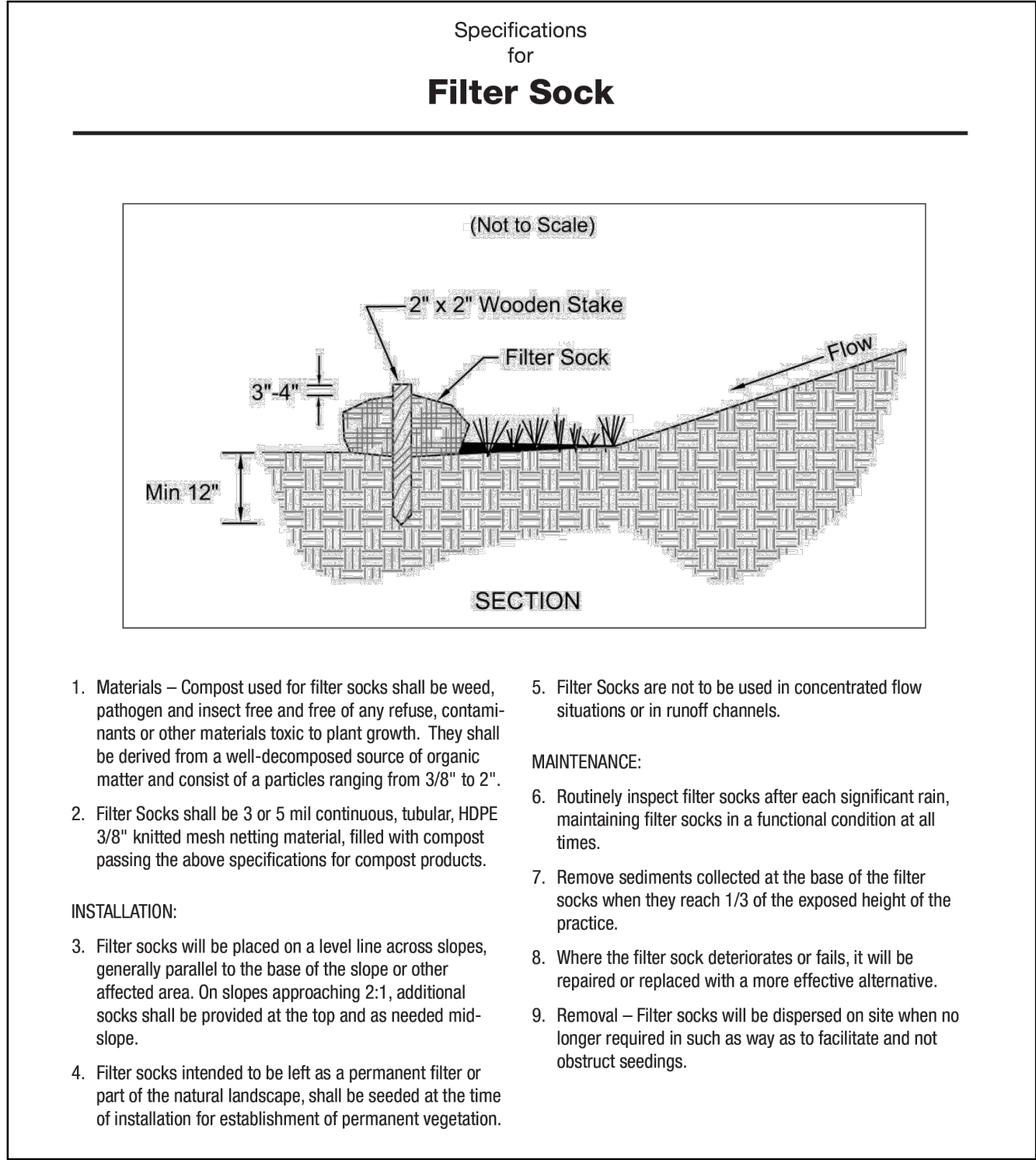
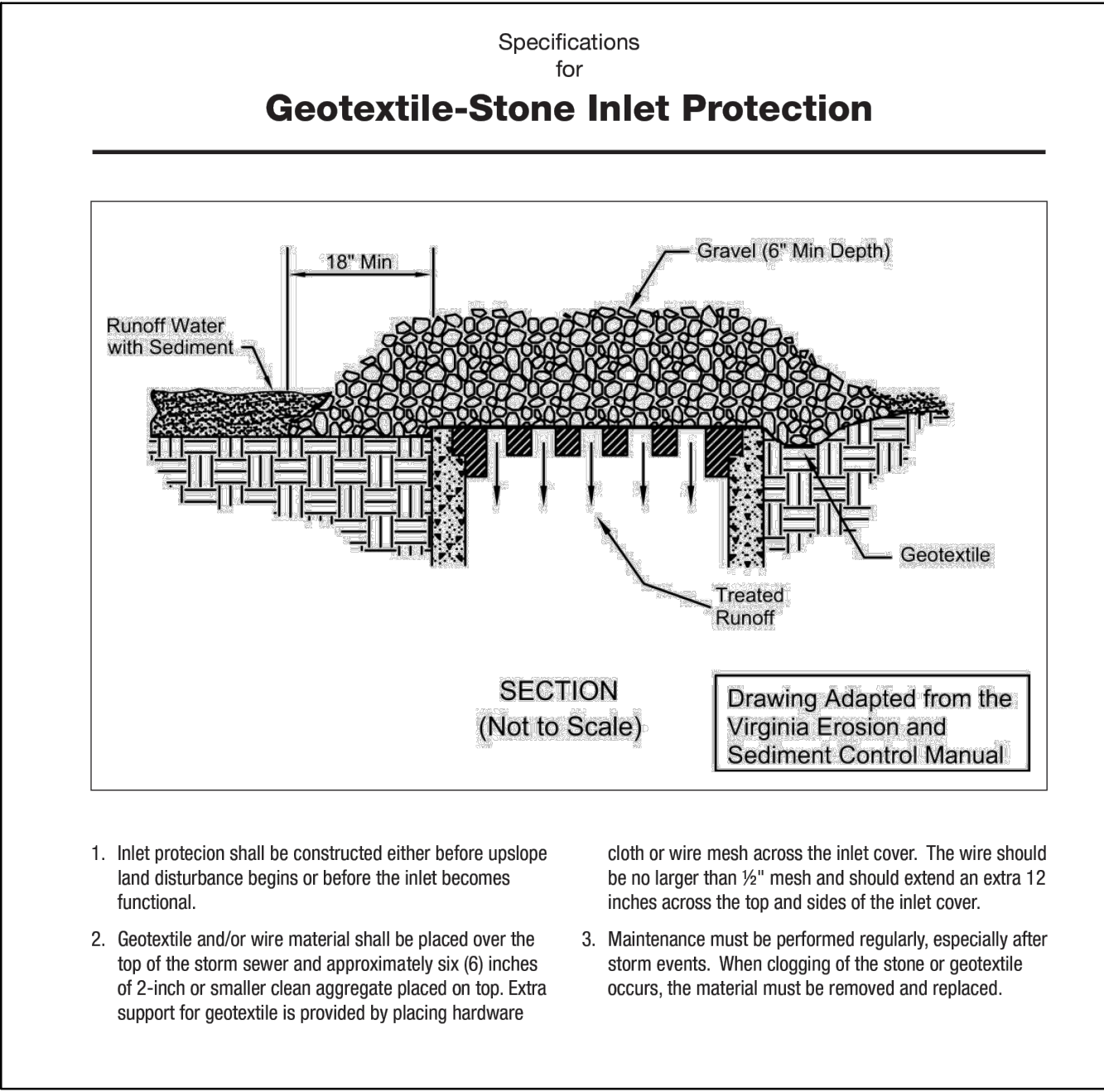
EROSION AND SEDIMENT CONTROL DETAILS

VILLAGE OF LEETONIA
STREETSCAPE

COLUMBIANA COUNTY, OHIO

HERBERT, ROWLAND & GRUBIC, INC.
220 WEST KENSINGER DRIVE
SUITE 100
CRANBURY TOWNSHIP, PA 16806
724.734.4777 | hrginc.com

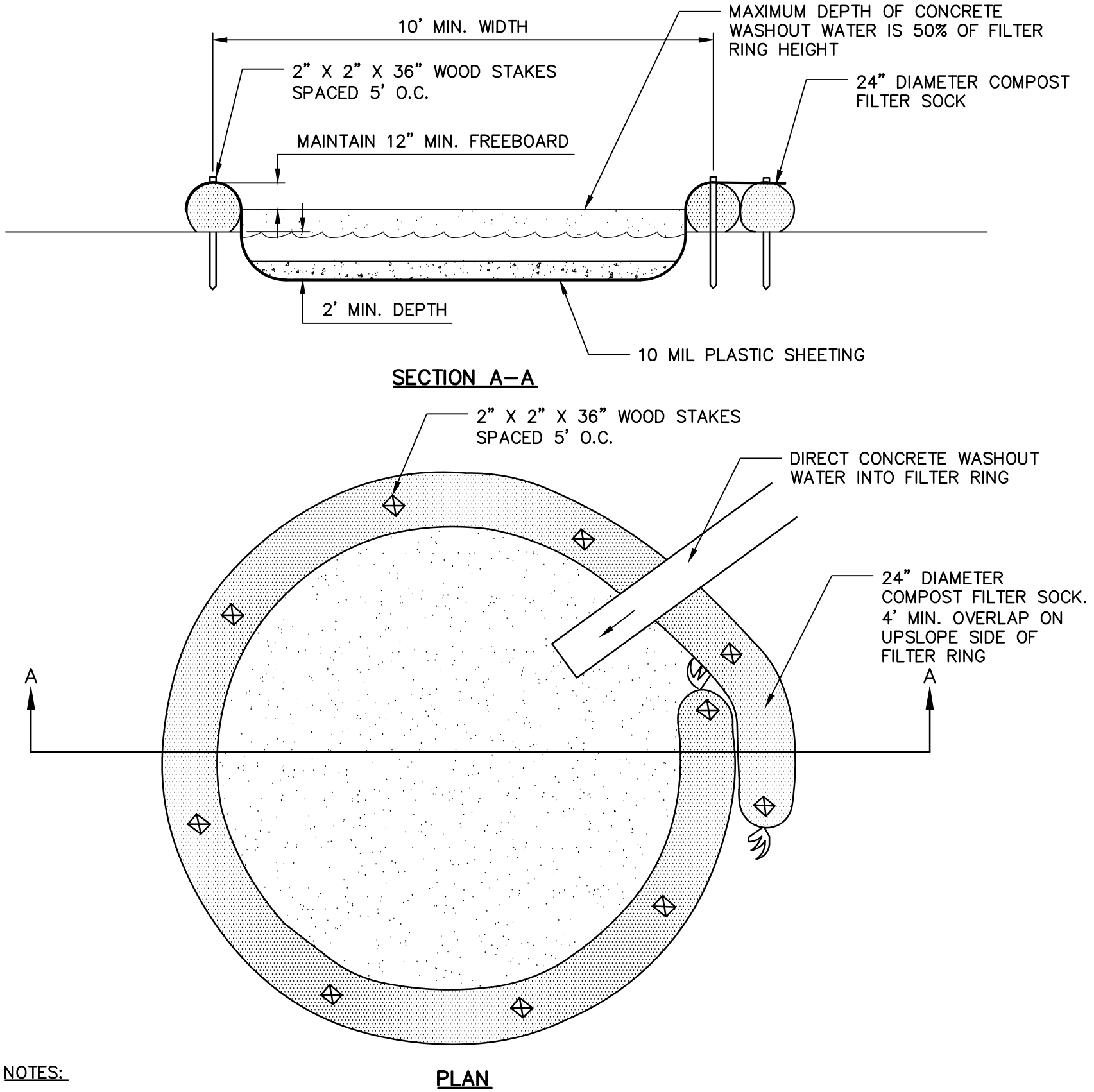
SCALE:
AS SHOWN
DATE: JUNE 1, 2026
JOB NO: R007307.0430
DESIGN: ATH
DRAWN: ATH
CHECKED: ATH
SHEET NO.
ES.2 OF ES.3



- NOTES:
1. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:
- | PROPERTY | TEST METHOD | MINIMUM STANDARD |
|--------------------------|-------------|------------------|
| AVG. WIDE WIDTH STRENGTH | ASTM D-4884 | 60 LB/IN |
| GRAB TENSILE | ASTM D-4632 | 205 LB |
| PUNCTURE | ASTM D-4833 | 110 LB |
| MULLEN BURST | ASTM D-3786 | 350 PSI |
| UV RESISTANCE | ASTM D-4355 | 70% |
| AOS % RETAINED | ASTM D-4751 | 80 SIEVE |
2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
 3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
 4. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
 5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
 6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
 7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG

NOT TO SCALE



- NOTES:
1. FOR ANY PROJECT ON WHICH CONCRETE WILL BE POURED OR OTHERWISE FORMED ON SITE, A SUITABLE WASHOUT FACILITY MUST BE PROVIDED FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES UNLESS SUCH A FACILITY WILL BE USED AT THE SOURCE OF THE CONCRETE. UNDER NO CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS. MAKE SURE THAT PROPER SIGNAGE IS PROVIDED TO DRIVERS SO THAT THEY ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES.
 2. WASHOUT FACILITIES SHALL NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS. THEY SHALL BE IN A CONVENIENT LOCATION FOR THE TRUCKS, PREFERABLY NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS. WASHOUT FACILITIES SHALL BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE.
 3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS SHALL BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITH THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER. CARE SHALL BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS. WHERE NECESSARY, SOCKS MAY BE STACKED AND STAKED SO AS TO FORM A TRIANGULAR CROSS-SECTION.
 4. 12 INCHES OF FREEBOARD ABOVE THE LIQUID AND SOLID WASTE SHALL BE MAINTAINED BETWEEN CLEANOUT INTERVALS. THE PIT SHALL BE LINED WITH PLASTIC SHEETING OF AT LEAST 10-MIL THICKNESS (WITH NO HOLES OR TEARS) TO PREVENT LEACHING OF LIQUIDS INTO THE GROUND.
 5. SEDIMENT BASINS AND SEDIMENT TRAPS MAY NOT BE USED AS CONCRETE WASHOUT DEVICES.
 6. ALL CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
 7. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN THEY REACH 75% CAPACITY.
 8. PLASTIC LINERS SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

TYPICAL COMPOST STOCK WASHOUT INSTALLATION FOR LARGE SITES DETAIL

NOT TO SCALE

EROSION AND SEDIMENT CONTROL DETAILS

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