

**DEL-CO WATER COMPANY
GENERAL NOTES FOR WATER LINE CONSTRUCTION
(UPDATED JANUARY 16, 2025)**

- GENERAL NOTES AS MODIFIED BY DEL-CO WATER AND SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS SHALL SUPERSEDE THE REQUIREMENTS OF THE DEL-CO WATER COMPANY CONSTRUCTION STANDARDS MANUAL WHEREVER DISCREPANCIES OCCUR.
- STANDARD GENERAL NOTES:
 - WATERLINE DESIGN, MATERIALS, AND INSTALLATION METHODS SHALL CONFORM TO APPLICABLE SECTIONS OF RECOMMENDED STANDARDS FOR WATER WORKS (TEN STATES STANDARDS), AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, AND THE DEL-CO WATER COMPANY CONSTRUCTION STANDARDS MANUAL. CONTRACTOR SHALL OBTAIN A COPY OF THE STANDARDS AND HAVE IN THEIR POSSESSION AT ALL TIMES DURING CONSTRUCTION. COORDINATE WORK WITH DEL-CO WATER (740) 548-7746.
 - DEL-CO WATER'S SIGNATURE ON THIS PLAN SIGNIFIES ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND LOCATION OF THE PROPOSED WATERLINE IMPROVEMENTS. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHO PREPARED AND CERTIFIED THESE PLANS. DEL-CO WATER COMPANY TAKES NO RESPONSIBILITY, FINANCIAL OR OTHERWISE, REGARDING ERRORS IN THIS PLAN.
 - CORRECTION OF ERRORS SHALL BE TO THE APPLICABLE DEL-CO WATER COMPANY STANDARD, AND THE SOLE RESPONSIBILITY OF THE DEVELOPER. ALL CORRECTIONS, OR REVISIONS THAT AFFECT DEL-CO'S WATERLINE PLANS, DIRECTLY OR INDIRECTLY SHALL BE SUBMITTED TO, AND APPROVED BY DEL-CO WATER COMPANY PRIOR TO REVISIONS BEING ISSUED.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE SUBMISSION OF GPS COORDINATES TO THE DEL-CO WATER GIS DEPARTMENT AT THE COMPLETION OF THE WATERLINE INSTALLATION. BASED ON THE CIRCUMSTANCES OF THE PROJECT, POINTS MAY BE REQUIRED TO BE UPLOADED DAILY. THESE COORDINATES SHALL INCLUDE ALL HORIZONTAL AND VERTICAL (NORTHING, EASTING, ELEVATION) SURVEY COORDINATES. THE SURVEY COORDINATES SHALL BE OBTAINED AT THE COMPLETION OF WATER MAIN INSTALLATION AND SHALL INCLUDE ALL VALVES, TEES, FIRE HYDRANTS, BENDS, PLUGS, REDUCERS, TAPPED TEES, CURB BOXES, AIR RELEASES, 2" END OF LINE FIRE HYDRANTS, ENDS OF CASING PIPE, AND SERVICE SADDLES. GPS POINTS AND DEPTHS ARE ALSO REQUIRED ON SERVICE LINE BORES AT EACH SIDE OF THE ROAD IN ADDITION TO THE SADDLE/WATER MAIN AND METER LOCATIONS. GPS POINTS SHOULD ALSO BE COLLECTED EVERY 10 FEET ON SERVICES LINES THAT ARE BEING DEFLECTED. ADDITIONAL GPS COORDINATES ARE REQUIRED ON TOP OF THE EXPOSED WATER MAIN EVERY 60' ON STRAIGHT RUNS, AND AT EVERY BELL (20') WHERE THE WATERLINE IS BEING DEFLECTED WITHOUT FITTINGS AND WHERE THE TRENCH CAN BE SAFELY ENTERED. ALL GPS POINTS SHALL BE COLLECTED ON THE CENTER OR CENTERLINE OF THE FEATURE. FOR HYDRANTS, POST INDICATOR VALVES AND 2" FLUSH HYDRANTS, THE POINT CORRECT LOCATION TO ENSURE ACCURACY. THE GPS ROD AND LEVEL MUST BE UTILIZED FOR ALL POINTS. ALL GPS POINTS SHALL ALSO HAVE PERTINENT ATTRIBUTES COLLECTED, ESPECIALLY PIPE MATERIAL AND PIPE DIAMETER WHERE APPLICABLE. IF THE COORDINATES ARE UNABLE TO BE COLLECTED ON TOP OF THE WATER MAIN OR FITTING, IT SHALL BE NOTATED IN THE GPS ATTRIBUTES. IF A COORDINATE IS UNABLE TO BE COLLECTED DIRECTLY ON TOP OF THE FEATURE, AN OFFSET POINT MUST BE COLLECTED BY A CAPABLE SURVEY GRADE UNIT.
 - GPS COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD WITH THE NSRS2007 ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE NORTH COORDINATE SYSTEM, NORTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDRETH. ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 0.6 FOOT OR LESS HORIZONTAL AND VERTICAL.
 - THE GPS COORDINATES SHALL BE SUBMITTED TO THE DEL-CO WATER GIS DEPARTMENT IN DIGITAL FORM, EXCLUDING PORTABLE DOCUMENT FORMAT (PDF). PREFERRED FILE TYPES INCLUDE COMMA DELIMITED TEXT FILES AND MICROSOFT EXCEL. THE ABOVE-LISTED GPS
 - COORDINATE INFORMATION SHALL BE SUBMITTED TO THE DEL-CO WATER GIS OR ENGINEERING DEPARTMENT AS PART OF THE AS-BUILT DRAWING SUBMITTAL WHERE APPLICABLE.
 - CONTRACTORS ARE REQUIRED TO SUPPLY (OWN OR RENT) AND MAINTAIN THEIR OWN GPS DEVICES. DEL-CO WATER RESERVES THE RIGHT TO DENY INADEQUATE GPS DEVICES THAT ARE UNABLE TO PROVIDE SUFFICIENT ACCURACY REQUIRED FOR SUBMISSION.
 - AS-BUILT DRAWINGS ARE REQUIRED FOLLOWING THE COMPLETION OF CONSTRUCTION. ONE SET OF DRAWINGS MARKED "AS-BUILT" SHALL BE SUBMITTED BY THE DEVELOPER TO DEL-CO'S INSPECTION DEPARTMENT FOR REVIEW AND APPROVAL. WATER MAINS CANNOT RECEIVE A FINAL ACCEPTANCE UNTIL AS-BUILT DRAWINGS HAVE BEEN APPROVED. PLEASE NOTE: TAPS MAY NOT BE PURCHASED NOR INSTALLED UNTIL WATER LINES HAVE RECEIVED A FINAL ACCEPTANCE.
 - WATER MAINS SHALL BECOME THE OWNERSHIP OF DEL-CO WATER UPON FINAL ACCEPTANCE.
 - WATERLINE CONSTRUCTION PLANS ARE APPROVED FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE APPROVAL LETTER OR SIGNED PLANS. IF CONSTRUCTION HAS NOT STARTED WITHIN ONE YEAR OF THE DATE OF APPROVAL, PLANS SHALL BE RESUBMITTED TO DEL-CO WATER COMPANY FOR APPROVAL.
- WATERLINE CONSTRUCTION:
 - WATERLINES SHALL BE NSF 61 APPROVED, AND COMPLIANT WITH ASTM D2241 & OHIO EPA ENG-08-002 STANDARDS.
 - USE THE FOLLOWING TYPE AND CLASS OF PIPE UNLESS OTHERWISE INDICATED ON THE DRAWINGS:
 - 2-INCH WATER LINE PIPE: CLASS 200 SDR 21 YELOMINE PVC (RESTRAINED JOINT).
 - 4-INCH WATER LINE PIPE: CLASS 200 SDR 21 PVC.
 - 6-INCH WATER LINE PIPE: CLASS 200 SDR 21 PVC.
 - 8-INCH TO 12-INCH WATER LINE PIPE: CLASS 160 SDR 26 PVC.
 - 16-INCH AND LARGER WATER LINE PIPE: AWWA C151 CLASS 52 DIP.
 - 4-INCH PIPE AND LARGER USED FOR FIRE SERVICE: AWWA C900 DR 18 (150 PSI)
 - ALL SIZES OF DEL-CO-OWNED WATERLINES USED ON MASTER METER PROJECTS: CLASS 200 SDR 21 PVC.
 - ALL SIZES OF DUCTILE IRON PIPE SHALL BE INSTALLED WITH V-BIO ENHANCED POLYETHYLENE ENCASEMENT AND IN ACCORDANCE WITH DEL-CO WATER SUBDIVISION CONSTRUCTION STANDARDS SECTION 02731 DUCTILE IRON.
 - ALL FITTINGS SHALL BE MECHANICAL JOINT CONFORMING TO AWWA C153.
 - MECHANICAL JOINT OR TRANSITION ACCESSORY PACK T-BOLTS SHALL BE CORROSION RESISTANT.
 - CROSSES SHALL NOT BE USED WITHOUT APPROVAL OF DEL-CO WATER COMPANY.
 - ALL VALVES SHALL BE MECHANICAL JOINT CONFORMING TO AWWA WITH AISI 304 STAINLESS STEEL EXTERNAL HARDWARE AND SHALL BE RESILIENT-SEALED GATE VALVES PER AWWA C509. USE OF BUTTERFLY VALVES IS PROHIBITED.

- PROVIDE HEAVY-DUTY VALVE BOXES ON ALL HOT-TAPS AND AT VALVES LOCATED UNDER GRAVEL OR PAVEMENT SURFACES.
- TOP OF VALVE BOX SHALL BE FLUSH WITH FINISHED GRADE IN PAVED AREAS, AND 4 INCHES ABOVE FINISHED GRADE IN NON-PAVED AREAS.
- MAINTAIN A MINIMUM 10-FOOT HORIZONTAL AND 1.5-FOOT VERTICAL SEPARATION BETWEEN WATERLINES AND SANITARY AND STORM SEWERS.
- ALL OTHER BURIED UTILITIES SHALL MAINTAIN A MINIMUM 5-FOOT HORIZONTAL SEPARATION, AND 2-FOOT VERTICAL SEPARATION FROM THE CENTERLINE OF WATERLINES AS FINALLY LAID AND CONSTRUCTED.
- PROVIDE CONCRETE THRUST BLOCKING FOR ALL FITTINGS, VALVES, ANCHOR TEES, AND HYDRANTS.
- BURY WATERLINES A MINIMUM DEPTH OF 48-INCHES TO THE TOP OF PIPE.
- ALL ENGINEERED FILL TO BE PLACED OVER OR UNDER DEL-CO WATER LINES SHALL BE IN PLACE PRIOR TO THE CONSTRUCTION OF THE WATER LINES.
- PLACE A 5-FOOT STEEL FENCE POST OR 4'X4' WOOD POST AT VALVES AND THE ENDS OF LINES. PAINT BLUE.
- TRACER WIRE:
 - INSTALL COPPERHEAD® OR EQUAL 12-GAUGE HIGH STRENGTH 452LB BREAK STRENGTH 30 MIL HDPE JACKET, COPPER-CLAD, STEEL REINFORCED TRACER WIRE ON ALL WATER MAINS AND SERVICE LINES INSTALLED BY TRENCHING METHODS.
 - INSTALL COPPERHEAD® OR EQUAL 12-GAUGE EXTRA HIGH STRENGTH 1150LB BREAK STRENGTH 45 MIL HDPE JACKET, COPPER-CLAD, STEEL REINFORCED TRACER WIRE ON ALL WATER MAINS AND SERVICE LINES INSTALLED BY BORING METHODS.
 - FASTEN WIRE TO PIPE IN TWO PLACES PER PIPE SECTION. EXTEND TRACER WIRE TO GROUND SURFACE AT ALL VALVES AND HYDRANTS AS SHOWN IN THE DEL-CO STANDARD DETAIL. SPLICE WIRES USING BURNDY COPPER SPLIT BOLT KS-15. THOROUGHLY WRAP THE CONNECTOR AND BARE WIRES WITH 3M TEMFLEX 2155 RUBBER SPLICING TAPE. COVER ENTIRE CONNECTION WITH SCOTCH SUPER 88 HEAVY DUTY GRADE ELECTRICAL TAPE.
 - CONNECT ALL SERVICE LINE WIRES TO MAIN LINE WIRES USING BURNDY COPPER SPLIT BOLT KS-15. THOROUGHLY WRAP THE CONNECTOR AND BARE WIRES WITH 3M TEMFLEX 2155 RUBBER SPLICING TAPE. COVER ENTIRE CONNECTION WITH SCOTCH SUPER 88 HEAVY DUTY GRADE ELECTRICAL TAPE.
 - CONTRACTOR SHALL TEST THE CONTINUITY OF ALL WIRE USING A THIRD-PARTY TESTER.
 - CONTRACTOR SHALL CONTACT DEL-CO'S INSPECTION DEPARTMENT A MINIMUM OF 24 HOURS PRIOR TO TEST.
 - TESTER SHALL SEND A SIGNED REPORT TO DEL-CO WATER INSPECTION DEPARTMENT AFFIRMING ALL WIRE HAS CONTINUITY.
 - CONTRACTOR SHALL REPAIR ALL DEFICIENCIES.
- WATER SERVICE CONSTRUCTION (BETWEEN MAIN LINE AND METER PIT):
 - ALL WATER SERVICES SHALL BE CONSTRUCTED AND INSTALLED PER AWWA C800.
 - FOR METERS 1-INCH AND SMALLER, USE 1-INCH CLASS 200 SDR 7 IRON PIPE SIZE (IPS) POLYETHYLENE PIPE.
 - CONNECTIONS TO PVC PIPE SHALL BE MADE WITH APPROVED TAPPING SADDLE AND CORPORATION STOP PER DEL-CO SUBDIVISION CONSTRUCTION STANDARDS MANUAL.
 - CONNECTIONS TO DIP SHALL BE BY DIRECT TAP OR SADDLE AND APPROVED CORPORATION STOP PER DEL-CO SUBDIVISION CONSTRUCTION STANDARDS MANUAL.
 - PROVIDE A CURB STOP WITH 1-INCH FEMALE IRON PIPE THREADS ON THE CUSTOMER SIDE AT THE END OF SERVICE LINES. LOCATE AT ROW, BUT A MINIMUM OF FIVE FEET FROM EDGE OF SIDEWALK UNLESS OTHERWISE APPROVED OR DIRECTED BY DEL-CO WATER.
 - ALL SERVICE LINE VALVES 1½-INCH AND LARGER SHALL BE MECHANICAL JOINT GATE VALVES, RESTRAINED WITH DUCT-LUGS AND GALVANIZED ALL THREAD ROD, OR ANCHOR TEES WHERE APPLICABLE.
 - MINIMUM DEPTH OF COVER SHALL BE 48 INCHES.
 - PLACE A 5-FOOT STEEL FENCE POST OR 4'X4' WOOD POST AT THE ENDS OF ALL SERVICE LINES, PAINT BLUE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SPECIAL BACKFILL MATERIAL FOR ALL LINES, INCLUDING THOSE INSTALLED BY DEL-CO WATER COMPANY, WHERE REQUIRED BY THE COUNTY OR CITY ENGINEER.
- FIRE HYDRANTS:
 - FIRE HYDRANTS SHALL CONFORM TO AWWA C502 FOR DRY BARREL HYDRANTS.
 - MAIN VALVE: 5.25-INCH COMPRESSION.
 - NOZZLES:
 - THREADING: CONFORM TO NFPA NATIONAL STANDARD FIRE HOSE THREADS.
 - 4.5-INCH STEAMER, EXCEPT IN THE FOLLOWING LOCATIONS PROVIDE AN INTEGRAL STORZ CONNECTION: HARRINGTON HIHS50 OR EQUAL: BERKSHIRE, BERLIN, CONCORD, GENOA, KINGSTON, LIBERTY, ORANGE, PORTER, TRENTON, AND SCIOTO TOWNSHIPS; CITY OF POWELL; AND THE VILLAGES OF SUNBURY AND GALENA.
 - TWO 2.5-INCH HOSE CONNECTIONS.
 - IN FRANKLIN COUNTY/CITY OF COLUMBUS, A 4" STEAMER IS REQUIRED ALONG WITH THE TWO 2.5-INCH HOSE CONNECTIONS. INTEGRAL STORZ CONNECTIONS ARE PROHIBITED.
 - INLET CONNECTION: 6-INCH MECHANICAL JOINT.
 - OPERATING NUT: 1.5-INCH PENTAGON, TURN COUNTERCLOCKWISE TO OPEN. EXCEPTING FROM THIS WILL BE ANY PROJECTS WITHIN FRANKLIN COUNTY OF CITY OF WORTHINGTON FIRE DEPARTMENTS WHERE A 1-INCH SQUARE, TURN COUNTERCLOCKWISE NUT IS REQUIRED.
 - PLACEMENT OF HYDRANT: 2 FEET FROM THE BACK OF CURB OR 8 FEET FROM THE EDGE OF PAVEMENT ON NON-CURBED STREETS.
 - EXTENSIONS AND PARTS SHALL BE MANUFACTURED BY THE ORIGINAL EQUIPMENT MANUFACTURER.
 - APPROVED MANUFACTURERS: MUELLER SUPER CENTURION 200, AMERICAN FLOW CONTROL B-84-B, CLOW MEDALLION, M&H MODEL 129M, AVK NOSTALGIC 2780, OR KENNEDY GUARDIAN K81D. OR EJ WATERMASTER 5CD250.
 - PAINTING: REPAINT ALL HYDRANTS AFTER INSTALLATION PER DEL-CO SUBDIVISION CONSTRUCTION STANDARDS MANUAL SECTION 02731, PART 2.06.
 - LIBERTY TOWNSHIP, POWELL, AND VILLAGE OF SUNBURY: SAFETY RED.
 - OTHER TOWNSHIPS: SAFETY YELLOW
 - FIRE HYDRANTS LOCATED ON PRIVATE WATER LINES SHALL BE
 - PAINTED INDUSTRIAL GREEN.
- FLUSHING HYDRANTS
 - ALL DEAD ENDS LINE SHALL HAVE EITHER AN AUTOMATIC FLUSHING DEVICE OR A 2" END OF LINE FIRE HYDRANT IN ACCORDANCE WITH SECTION 02731 FLUSHING HYDRANTS.
- DISINFECT ALL WATER LINES IN ACCORDANCE WITH AWWA C651 AND DEL-CO WATER SPECIFICATIONS.
- ALL PIPE INSTALLATION AND PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600 FOR DUCTILE IRON PIPE AND C605 FOR PLASTIC PIPE, AND DEL-CO SPECIFICATIONS.
 - CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY TO PERFORM PRESSURE TEST.
 - SCHEDULE TEST BETWEEN 8:00 AM AND 2:00 PM WEEKDAYS. NOTIFY

- DEL-CO WATER 24 HOURS PRIOR TO TESTING.
- OBTAIN WRITTEN APPROVAL OF MATERIAL AND MANUFACTURERS LIST FROM DEL-CO WATER PRIOR TO BEGINNING CONSTRUCTION.
 - PROVIDE CASING PIPE FOR ALL ROAD CROSSINGS UNLESS OTHERWISE APPROVED BY DEL-CO. CASING PIPE SHALL BE STEEL PIPE WITH 0.375-INCH WALL THICKNESS, OR PVC C900 FOR WATERLINES 12-INCH DIA. OR LESS. CASINGS FOR WATERLINES LARGER THAN 12-INCH DIA. MAY BE AWWA C905.
 - EASEMENTS SHALL BE PROVIDED TO DEL-CO WATER BEFORE PERMISSION WILL BE GIVEN TO MAKE NEW SERVICE LINE CONNECTIONS.
 - CONNECTIONS TO EXISTING WATER LINES WILL BE MADE BY DEL-CO WATER AT THE CONTRACTOR'S EXPENSE OR PERFORMED BY CONTRACTORS WHO ARE APPROVED FOR MAKING CONNECTIONS. NOTIFY ALL PROPERTY OWNERS, AND DEL-CO WATER, IN WRITING 48 HOURS BEFORE STARTING CONSTRUCTION.
 - CONTRACTOR SHALL EXCAVATE TO DETERMINE THE LOCATION AND DEPTH OF EXISTING WATER LINES WHEREVER COVER OVER THE WATER LINES IS BEING REDUCED. IF THE FINAL DEPTH OF THE WATERLINE WILL BE BELOW DEL-CO WATER STANDARDS, CONTRACTOR SHALL SUBMIT A RELOCATION PLAN FOR APPROVAL BY DEL-CO WATER, AND RELOCATE THE WATER LINE AT THEIR EXPENSE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING THE WATER LINE PRIOR TO FINAL ACCEPTANCE BY DEL-CO WATER, AND REPAIRING ALL DAMAGES FROM CONSTRUCTION ACTIVITY.
 - DO NOT FILL NEW WATER LINES UNTIL APPROVED BY DEL-CO WATER.
 - BOOSTER PUMPS ARE NOT ALLOWED ON INDIVIDUAL SERVICES.
 - ALL WATER MAINS, INCLUDING THOSE NOT DESIGNED TO PROVIDE FIRE PROTECTION, SHALL BE SIZED FOLLOWING AN ANALYSIS BASED ON FLOW DEMANDS, AND PRESSURE REQUIREMENTS. THE SYSTEM SHALL BE DESIGNED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI AT GROUND LEVEL AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL DESIGNED FLOW CONDITIONS. NORMAL WORKING PRESSURE IN THE DISTRIBUTION SYSTEM SHALL NOT BE LESS THAN 35 PSI.
 - DEL-CO WATER REQUIRES ALL WATERLINES INTENDED FOR OWNERSHIP AND MAINTENANCE BY DEL-CO WATER, REGARDLESS OF PIPE SIZE, TO SECURE EPA APPROVAL PRIOR TO THE START OF CONSTRUCTION.

**DEL-CO WATER COMPANY
SUPPLEMENT TO THE GENERAL NOTES FOR THE CONSTRUCTION OF OFF-SITE
WATERLINES
(UPDATED JANUARY, 2025)**

- THE GENERAL NOTES FOR THE CONSTRUCTION OF OFF-SITE WATERLINES LISTED BELOW SHALL SUPPLEMENT THE DEL-CO WATER GENERAL NOTES FOR WATERLINE CONSTRUCTION LISTED ABOVE. THESE GENERAL NOTES ADDRESS THE DESIGN AND CONSTRUCTION OF WATERLINES TO BE INSTALLED BY AN OWNER/DEVELOPER ON PROPERTY NOT OWNED BY THE OWNER/DEVELOPER.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ALL REQUIRED EASEMENT(S) FOR ALL PROPOSED OFFSITE WATERLINES AND APPURTENANCES.
 - DEL-CO WILL PROVIDE A STANDARD EASEMENT FORM TO BE USED BY THE OWNER/DEVELOPER.
 - THE OWNER/DEVELOPER WILL PROVIDE ALL EASEMENT EXHIBITS.
 - ALL ORIGINAL EASEMENTS SHALL BE RETURNED TO DEL-CO WATER. DEL-CO WATER WILL RECORD ALL EASEMENTS AT THE COUNTY COURTHOUSE.
- THE OWNER/DEVELOPER SHALL PROVIDE A VIDEO DOCUMENTING THE EXISTING CONDITION OF ALL OFFSITE PROPERTIES IMPACTED BY THE WATERLINE CONSTRUCTION PRIOR TO THE START OF CONSTRUCTION.
 - COMMENTARY IDENTIFYING POTENTIAL CONFLICTS, SURFACE FEATURES, ETC. ON THE IMPACTED PROPERTY(S) SHALL BE INCORPORATED INTO THE PRECONSTRUCTION VIDEO.
 - A COPY OF THE PRECONSTRUCTION VIDEO SHALL BE PROVIDED TO DEL-CO WATER CO., INC. PRIOR TO THE START OF CONSTRUCTION.
- PROPERTY OWNERS SHALL BE NOTIFIED OF THE PROJECT DURING THE DESIGN PHASE AND/OR A MINIMUM OF NINETY (90) DAYS PRIOR TO THE START OF CONSTRUCTION.
 - DEL-CO SHALL REVIEW AND APPROVE THESE CONSTRUCTION NOTICES.
 - PROPERTY OWNERS SHALL BE NOTIFIED OF THE INSTALLATION OF ALL ABOVE GROUND APPURTENANCES ON THEIR PROPERTY INCLUDING, BUT NOT LIMITED TO VALVES, HYDRANTS, & ETC.
- WATERLINE CONSTRUCTION
 - ONCE WATERLINE CONSTRUCTION HAS BEGUN ON A SPECIFIC PROPERTY, THE CONTRACTOR SHALL REMAIN ON THAT PROPERTY UNTIL ALL OF THE WATERLINES HAVE BEEN INSTALLED AND YARD RESTORATION IS COMPLETED.
 - ALL OPEN EXCAVATIONS SHALL BE PROPERLY SECURED AT THE END OF EACH WORKDAY.
 - CONTRACTOR SHALL COORDINATE THE EXCAVATION ACROSS EXISTING DRIVES WITH THE PROPERTY OWNER SO AS TO NOT LIMIT OR PREVENT ACCESS TO THE PROPERTY.
 - ALL EXISTING CONCRETE OR ASPHALT DRIVEWAY CROSSINGS SHALL BE COMPLETED USING DIRECTIONAL DRILLING OR OTHER APPROVED TRENCHLESS METHODS UNLESS PREVIOUSLY AGREED UPON IN WRITING BY THE PROPERTY OWNER.
 - EXCAVATIONS THAT CROSS EXISTING GRAVEL DRIVEWAYS SHALL BE BACKFILLED PER DEL-CO WATER DETAIL D-18 GRAVEL ROADWAY & DRIVEWAY PAVEMENT REPLACEMENT.
 - ALL TREES, SHRUBS, FENCES, LANDSCAPE FEATURES, ETC. SHALL BE PRESERVED AND PROTECTED FROM DAMAGE DUE TO THE WATERLINE CONSTRUCTION UNLESS AGREED UPON BY THE PROPERTY OWNER PRIOR TO CONSTRUCTION. DEL-CO WATER RESERVES THE RIGHT TO REQUIRE THE WATERLINE TO BE INSTALLED USING DIRECTIONAL DRILLING METHODS WITH RESTRAINED JOINT PIPE SO AS TO PROTECT THESE FEATURES.
 - ALL WATERLINE BACKFILL SHALL BE COMPACTED. RESTORATION SHALL BE PERFORMED IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION UNLESS APPROVED BY DEL-CO WATER OR THE PROPERTY OWNER.
- POST CONSTRUCTION CONDITIONS
 - PROPERTIES NOT OWNED BY THE DEVELOPER THAT ARE AFFECTED BY THE WATERLINE CONSTRUCTION SHALL BE RETURNED TO "PRECONSTRUCTION" GRADES AND CONDITIONS FOLLOWING THE WATERLINE INSTALLATION.
 - YARD RESTORATION SHALL COMMENCE IMMEDIATELY FOLLOWING THE WATERLINE INSTALLATION.
 - ALL VALVE BOXES, MANUAL AIR RELEASE PITS, ETC. SHALL BE SET TO THE APPROPRIATE GRADE TO MINIMIZE THE IMPACT TO THE PROPERTIES NOT OWNED BY THE DEVELOPER.
 - ALL MARKER POSTS, BLOW-OFFS AND ETC. SHALL BE REMOVED PRIOR TO YARD RESTORATION.

ESTIMATE OF QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
201	LUMP	SUM	CLEARING & GRUBBING
203	261	CY	EXCAVATION
203	84	CY	EMBANKMENT
203	984	SY	SUBGRADE COMPACTION
203	1	HRS	PROOF ROLLING
207	1	SY	CONSTRUCTION ENTRANCE
301	164	CY	NO. 2 STONE
304	164	CY	AGGREGATE BASE-ODOT ITEM 304
616	LUMP	SUM	DUST CONTROL
623	LUMP	SUM	CONSTRUCTION LAYOUT STAKES
623	LUMP	SUM	MOBILIZATION
630	1	EA	PRIVATE DRIVE & ADDRESS SIGN
659	100	SY	SEEDING AND MULCHING
SPEC	298	LF	SILT FENCE
SPEC	LUMP	EA	PROOF SURVEY PER DELAWARE COUNTY STANDARD

ESTIMATE OF QUANTITIES NOTES

QUANTITIES LISTED ABOVE ARE ESTIMATES AND SUBJECT TO REVISION DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO PREPARING & SUBMITTING THEIR BID.

ALL ITEMS OF WORK CALLED FOR ON THIS PLAN, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS INDICATED, SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SUCH WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS.

BIDDING INSTRUCTIONS

- THE PROJECT IS NON-PREVAILING WAGE AND IS NON-TAXABLE.
- THE COSTS FOR TRAFFIC CONTROL, TEMPORARY SIGNAGE, TRASH REMOVAL, PORTABLE TOILETS, TEMPORARY ROADS, AND CONSTRUCTION CONTROL STAKING ARE TO BE INCLUDED IN THE BID.
- THE SUCCESSFUL BIDDER WILL BE REQUIRED TO PROVIDE SURETY FOR THE VALUE OF THE CONSTRUCTION AS REQUIRED BY THE CONTROLLING GOVERNMENT ENTITIES.

NOTES:

- THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND AND OVERHEAD UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS BASED ON FIELD OBSERVATIONS. DELAWARE COUNTY AND/OR THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OF THE UNDERGROUND FACILITIES SHOWN ON THE PLANS. SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS. THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE REGISTERED UNDERGROUND UTILITY PROTECTION SERVICES (TELEPHONE 800-362-2764 - TOLL FREE) AND THE OWNERS OF UNDERGROUND UTILITY FACILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND UTILITY PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE REVISED CODE. THE ABOVE MENTIONED NOTICE SHALL BE GIVEN AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- ALL TREES AND SHRUBS INCLUDING PROTRUDING BRANCHES WITHIN 16' HORIZONTALLY AND 20' VERTICALLY FROM THE CENTERLINE OF THE CAD SHALL BE REMOVED AND MAINTAINED AS CLEARED AREA UNLESS THERE IS A MORE RESTRICTIVE STANDARD IN CONCORD TOWNSHIP.
- A POLE-SIGN SHALL BE INSTALLED AT THE SUB DIVIDER'S EXPENSE, LOCATED AT THE CAD INTERSECTION WITH THE CONNECTING PUBLIC OR PRIVATE ROAD. SUCH SIGN MAY BE INTEGRATED INTO A COMMON MAILBOX STRUCTURE. THE POLE-SIGN SHALL BE MADE OF ROT-RESISTANT WOOD OR COMPARABLE WEATHER-RESISTANT MATERIAL. THE POLE-SIGN SHALL BE PLACED OUTSIDE THE PUBLIC RIGHT-OF-WAY AND SHALL INCLUDE THE WORDS "PRIVATE DRIVE" IN CONTRASTING LETTERS. THE "PRIVATE DRIVE" SIGN SHALL BE NO LARGER THAN TWO SQUARE FEET (1 FOOT X 2 FEET) ON EACH SIDE. ALL CAD ADDRESSES SHALL BE DISPLAYED COLLECTIVELY ON THE POLE-SIGN AT THE CAD ENTRANCE AND SHALL BE MADE OF REFLECTIVE MATERIAL. THE "PRIVATE DRIVE" SIGN AND ADDRESSES SHALL BE LEGIBLE FROM THE CONNECTING PUBLIC OR PRIVATE ROAD AND CONTINUOUSLY MAINTAINED AT THIS LOCATION. A RENDERING OF THE SIGN INCLUDING PROPOSED MATERIALS SHALL BE SUBMITTED AT THE TIME OF PRELIMINARY PLAN APPLICATION.
- EACH LOT SHALL INDIVIDUALLY DISPLAY ITS ADDRESS AT THE DRIVEWAY ENTRANCE TO THE CAD WHEN THE ADDRESS IS ASSIGNED. THE ADDRESS-SIGN SHALL BE MADE OF REFLECTIVE MATERIAL AND BE LEGIBLE FROM EACH LOT'S DRIVEWAY ENTRANCE.

#	DESCRIPTION OF CHANGE	REVISION	
		DATE	BY

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BERLIN TOWNSHIP, DELAWARE COUNTY, OHIO

**ROLOSON FIELD
COMMON ACCESS DRIVE**

GENERAL NOTES & QUANTITIES

DRAWING SET STATUS:

- PRELIMINARY ENGINEERING SET
- AGENCY REVIEW SET
- CONSTRUCTION DOCUMENT SET
- AS-BUILT DOCUMENT SET

DESIGN	DRAFT	CHECK
DGR	DGR	JPW

PROJECT NO.: 26-006

DATE: MAY, 2026

SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

SHEET NO.: 3 / 7

