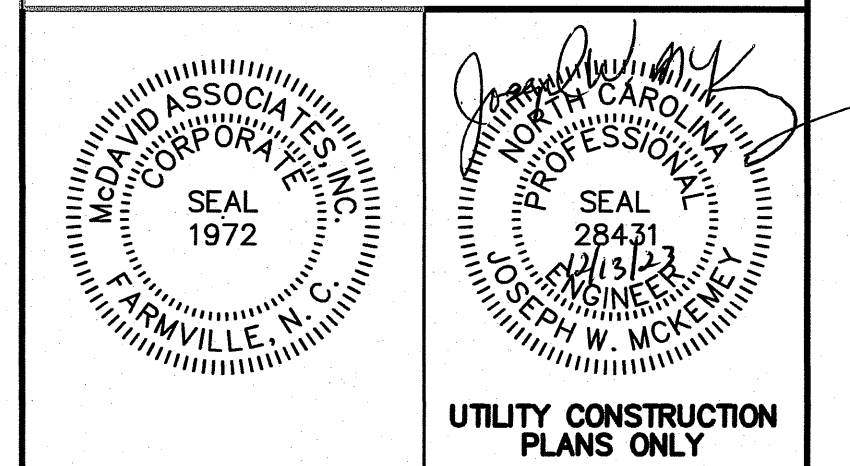


SANITARY SEWER FORCE MAIN GENERAL CONSTRUCTION NOTES

PROJECT REFERENCE NO. B-4926		SHEET NO. UC-3	
DESIGNED BY: JWM	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		
DRAWN BY: MW			
CHECKED BY: DEG	UTILITIES ENGINEERING SEC.		
APPROVED BY: JWM	PHONE: (919)707-6690		
REVISED:	FAX: (919)250-4151		

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



McDAVID ASSOCIATES, INC.
Corporate License No. C-131

CORPORATE OFFICE Engineers - Planners - Land Surveyors 3714 North Main Street P. O. Box 1776 Farmville, NC 27828 Telephone: (252) 765-2150 Facsimile: (252) 765-7226	BRANCH OFFICE Engineers - Planners 109 East Walnut Street P. O. Box 1776 Goldston, NC 27533 Telephone: (919) 736-7630 Facsimile: (919) 736-7651
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REVISIONS

NO.	DATE	DESCRIPTION
1	1/26/2024	Revised Note 22 Per NCDOT Comments

MAI REVIEW OFFICER APPROVAL

DATE _____ MAI REVIEW OFFICER _____ 1-19-0308-3401

- CONTRACTOR shall assign a full-time competent resident superintendent or supervisor employed by the CONTRACTOR. The superintendent/supervisor shall have authority to act, direct the WORK, supervise all subcontractors, etc. on behalf of the respective CONTRACTOR. CONTRACTOR shall not replace resident superintendent without written acknowledgment to ENGINEER and approval from OWNER.
- CONTRACTOR shall be responsible for coordination of the following:
 - Field Superintendent/Project Manager shall contact ENGINEER daily between 6:30am and 7:00am beginning three (3) days in advance of starting construction throughout the duration of the PROJECT.
 - Construction and operation efforts between PROJECT related CONTRACTORS.
 - All subcontractors for each respective CONTRACTOR.
 - Tie-ins, site construction, etc. by all PROJECT related CONTRACTORS.
 - Notification to ENGINEER of field conflicts, delays, changes, coordination issues, etc.
- CONTRACTOR shall submit shop drawings and/or catalogue cuts on selected materials for approval prior to ordering materials.
- Legend of abbreviations used in plans:
 - WDC = Water Distribution CONTRACTOR.
 - STC = Street CONTRACTOR.
 - FM with Solid Line = Proposed Force Main.
 - FM with Dashed Line = Existing Force Main.
 - W with Solid Line = Proposed Water Line.
 - W with Dashed Line = Existing Water Line.
 - V = Valve.
 - ST with Solid Line = Proposed Storm Sewer.
 - ST with Dashed Line = Existing Storm Sewer.
- The CONTRACTOR shall include all clearing in the UNIT PRICE of the pipe or applicable construction item.
- All stone bedding shall be included in the UNIT PRICE of the pipe or applicable construction item.
- Backfill material shall be as follows:
 - Under proposed pavement and curb and gutter.
 - Suitable soil material excavated from the site shall be used for backfill unless directed otherwise by the ENGINEER. Payment for backfilling shall be included within the UNIT PRICE of the pipe.
 - Borrow shall be used at the direction of the ENGINEER if existing on-site material is not suitable. Payment for BORROW shall included within the UNIT PRICE of the pipe.
 - Not under proposed pavement and curb and gutter.
 - Suitable soil material excavated from the site shall be used for backfill unless directed otherwise by the ENGINEER. Payment for backfilling shall be included within the UNIT PRICE of the pipe.
- All construction is on a UNIT PRICE basis.
- The CONTRACTOR is responsible for all subsurface conditions and construction methods necessary to install the facility.
- Backfill compaction for all force main construction shall be in accordance with SECTION 02226, EXCAVATION, BACKFILL, AND COMPACTION FOR FORCE MAINS. This section shall supersede any less stringent compaction requirements found elsewhere in the PLANS and/or SPECIFICATIONS.
- CONTRACTOR shall contact all utility companies prior to beginning work and shall fully coordinate and have all utilities flagged within the area of construction. Known utilities within the project area and their respective contacts are as follows:
 - Electrical
Duke Energy Progress (800) 452-2777
 - Gas
Piedmont Natural Gas (800) 752-7504
 - Cable TV
Optimum (252) 955-8088
 - Telephone

- Sewer Force Main
Brightspeed (252) 751-5751
Town of Dover (252) 523 9610
Chuck Cauley (252) 560-1789
 - Water Lines
North Lenoir Water Corporation
Melvin Albritton - Office: (252) 527-8352
Mobile: (252) 560-1490
- CONTRACTOR shall contact the North Carolina Department of Transportation (NC DOT) as follows:
 - CONTRACTOR shall contact the NC DOT District Engineer or the NC DOT District Engineer's representative at the following times:
 - Five (5) days prior to any WORK within NC DOT rights-of-way
 - Upon completion of all WORK within NC DOT rights-of-way
 - Prior to any lane closures within NC DOT rights-of-way
 - The NC DOT District Engineer's contact information for this PROJECT is:
N. C. Department of Transportation
Division of Highways
1629 Highway 258 South
Kinston, NC 28504
Telephone: 252-775-6530
Facsimile: 252-527-7920
 - Prior to force main construction within any area where road construction is in progress by a D.O.T. contractor, the force main contractor shall coordinate the installation of the proposed force main with the D.O.T. contractor and the D.O.T. inspector to insure that the force main is installed in a manner to avoid conflicts with the D.O.T. construction and to provide all specified bury depths and clearances.
 - All material and workmanship shall conform to the NC Department of Transportation "Standard Specifications for Roads and Structures", "Roadway Standard Drawings", and "Policies and Procedures for Accommodating Utilities on Highway Rights of Way", latest edition.
 - Construction zones and approaches to construction zones shall be signed and marked to maximize public safety in accordance with the following:
 - "Manual on Uniform Traffic Control Devices for Streets and Highways", latest revision, by U.S. Department of Transportation, Federal Highway Administration
 - "North Carolina Construction and Maintenance Operations Supplement to the Manual on Uniform Traffic Control Devices for Streets and Highways", latest revision, by Division of Highways, NC Department of Transportation
 - "North Carolina Highway Marking Manual and Supplement to the Manual on Uniform Traffic Control Devices for Streets and Highways", latest revision, by Division of Highways, NC Department of Transportation
 - NC DOT "Roadway Standard Drawings", latest revision, by NC Department of Transportation
 - NC DOT "Standard Specifications for Roads and Structures", latest revision, by NC Department of Transportation
 - Any roadway signs removed during construction shall be reinstalled immediately.
 - The CONTRACTOR shall adhere to all NC DOT safety standards, rules and regulations. A "Work Zone Traffic Control Supervisor" is a trained and qualified individual who is employed by the CONTRACTOR and is capable of identifying unsafe work zone conditions and improper traffic control. NC DOT qualified "Work Zone Flaggers" shall be used for all flagging operations.
 - The CONTRACTOR shall not perform any construction or cleanup activities unless appropriate traffic control devices and/or flagmen are in place and functional. Traffic control devices and/or flagmen shall remain in place and be maintained by the CONTRACTOR as long as necessary to prevent any unsafe condition.
 - Any work requiring equipment or personnel within five (5) feet of the edge of any travel lane of an undivided highway and within ten (10) feet of the edge of any travel lane of a divided highway shall require a lane closure with appropriate traffic control devices.
 - Work shall not be performed on both sides of the road simultaneously within the same area with the exception of a drybore or road crossing.
 - Excavation material shall not be placed on pavements. If for any reason, excavation material must be placed on pavement, written permission shall be obtained from NC DOT and presented to the ENGINEER prior to placement of the excavation material on the pavement. Excavation material shall not be placed in a manner that blocks drainage structures or creates a roadway hazard after removal. CONTRACTOR shall place screening material between the pavement and the excavation material as necessary to prevent excavation material from adhering to the pavement. The cost of screening material and the placement and removal thereof shall be included within the UNIT PRICE of the pipe.

- All locations of existing utilities, storm drainage and other facilities are approximate and shall be field verified by the CONTRACTOR prior to installation of new construction. PLANS do not show all existing utilities, storm drainage and other facilities. The CONTRACTOR shall make his own prebid field determination of all existing utilities, storm drainage and other facilities.
- CONTRACTOR shall install all force mains and appurtenances in the locations shown on the PLANS.
- When minimum cover in all directions is less than thirty-six (36) inches, the pipe shall be ductile iron pipe.
- All excavations inside the theoretical 1:1 slope from the existing edge of pavement to the bottom of the nearest excavation wall shall be made in accordance with the following:
 - Active excavation shoring, such as sheet piling, shall be installed. The design of the shoring shall include the effects of traffic loads. The shoring system shall be designed and sealed by a professional engineer licensed in North Carolina. Shoring plans and design calculations shall be submitted to the NC DOT Division Engineer for review and approval prior to construction. Trench boxes are not acceptable as shoring.
 - All trench excavation inside the limits of the theoretical 1:1 slope, shall be completely backfilled and compacted at the end of each construction day. No portion of the trench shall be left open overnight.
 - An appropriate performance bond shall be posted by the CONTRACTOR with NC DOT for a period of two (2) to five (5) years to cover any long term pavement repairs which may be required as a result of the installation.
- Trenches, bore pits and/or other excavations shall not be left open or unsafe overnight.
- CONTRACTOR shall be responsible and liable for any damages to existing items caused by the CONTRACTOR or resulting from the CONTRACTOR'S work associated with accomplishing the PROJECT. PLANS do not show all items that exist in the PROJECT area. For those items shown on the PLANS, locations are approximate. The existence of these items will significantly impact the CONTRACTOR'S ability to install the proposed piping and accomplish the WORK required by the CONTRACT DOCUMENTS. The CONTRACTOR shall make his own pre-bid field determination and investigation regarding the existence and the exact location of all items within the PROJECT area. The CONTRACTOR shall be responsible for judging and determining how and to what extent existing items will impact the CONTRACTOR'S ability to accomplish the WORK. The CONTRACTOR shall contact the owner of the respective utilities within the PROJECT area and coordinate the protection of the existing utility. Any and all fees charged by the owner of the existing utility related to the protection, holding, or relocation of the existing utility shall be paid by the CONTRACTOR. The CONTRACTOR shall repair, provide new, or replace items damaged or destroyed during construction whether said items are shown on the PLANS or not. Damage repair, new, or replacement of those items shall be included within the UNIT PRICE of the pipe. NC DOT owned or maintained items damaged or removed shall be replaced or reinstalled in conformance with NC DOT "Roadway Standard Drawings", latest revision, by NC Department of Transportation and NC DOT "Standard Specifications for Road and Structures", latest revision, by NC Department of Transportation. The costs associated with accomplishing the proposed WORK in the immediate vicinity of existing items and the protection of these existing items shall be included within the UNIT PRICE of the pipe. There shall be no additional payment to the CONTRACTOR for costs associated with temporary or permanent locating and/or relocating existing items necessary to accomplish proposed construction activities; holding existing items out of the way of construction activities; measures required for the protection of existing items; or, temporary repair, removal, providing new, and/or replacement of existing items damaged by the CONTRACTOR.
 - CONTRACTOR shall protect existing storm drainage pipe before, during, and after removal and replacement. Existing undamaged storm drainage piping may be reused. Existing drainage piping damaged by the CONTRACTOR shall be replaced with new piping. Existing damaged drainage piping shall be replaced with new piping if CONTRACTOR disturbs the existing damaged piping. A storm drain pipe collar shall be installed around the joint of any pipe segment disturbed, installed, or reinstalled during construction. Drainage structures shall not be blocked with excavation materials.
 - CONTRACTOR shall protect existing underground and above ground utilities within the PROJECT area. Existing underground and above ground utilities within the PROJECT area include but are not limited to: water lines, sewer lines, natural gas lines, telephone cables (including fiber optic cables), cable TV cables, and electric cables.
 - Existing utilities are numerous and alignments are irregular. Accurate depiction of the utilities on the PLANS is not possible or practical and therefore the PLANS do not typically attempt to illustrate all utilities and locations of all utilities.
 - If necessary, CONTRACTOR shall coordinate with the owner of existing overhead utilities to have utility line, pole, or guy wire, etc. held or temporarily relocated to accomplish installation of the proposed WORK.

REVISIONS

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