

# CARTHAGE DOWNTOWN REVITALIZATION

## CARTHAGE, NORTH CAROLINA

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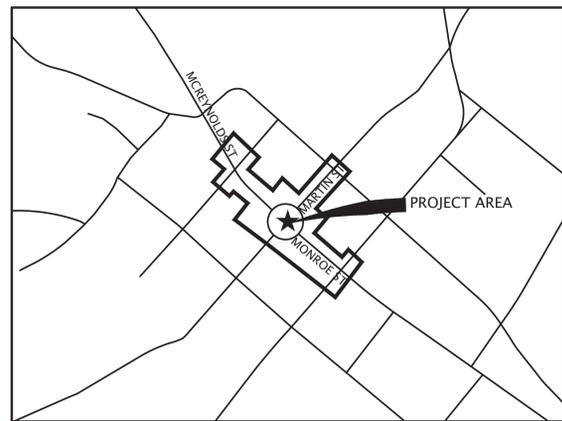
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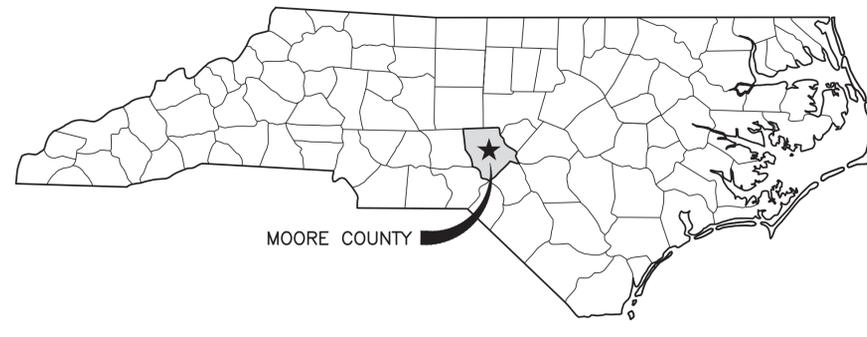
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PROJECT VICINITY MAP

1" = 500'



COUNTY LOCATION MAP

NTS

AUTHORIZATION TO CONSTRUCT IMPROVEMENTS		
PART 1 - Record of Permits Issued by Other Regulatory Agencies		
Water System Extension:	Permit # _____	Date: _____
Wastewater Collection System Extension:	Permit # _____	Date: _____
Land Disturbing Permit:	Permit # _____	Date: _____



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Landscape Architecture  
Surveying

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GENERAL NOTES

ALL GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND OTHER INFORMATION INDICATED ON THIS SHEET SHALL APPLIED TO ALL CONTRACT DOCUMENTS AND SHEETS IN THIS SET.

- THE GENERAL CONTRACTOR SHALL FIELD VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AT THE JOB SITE.
- ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR WITH THE SURVEYOR OF RECORD PRIOR TO BEGINNING CONSTRUCTION. BENCHMARK IS AN ECM LOCATED ALONG THE PROPERTY LINE OF THE SITE AND HAVING AN ELEVATION OF \_\_\_\_\_.
- HORIZONTAL COORDINATES BASED ON NC GRID NAD83 AND ELEVATIONS BASED ON NAVD88 DATUM.
- ALL DIMENSIONS AND ALL ELEVATIONS ARE MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
- THE INTENT OF THE LIMITS OF DISTURBANCE/CONSTRUCTION (LOD/C) SHOWN ON THE DRAWINGS IS TO DEFINE THE GENERAL PROJECT AREA TO CONSTRUCT, INSTALL AND/OR MODIFY THE SITE. TYPICALLY, THE LOD/C WILL FOLLOW RIGHT-OF-WAY OR PROPERTY LINES. THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE REGARDING ANY QUESTIONS AS TO THE EXACT LOCATION OF THE LOD/C PRIOR TO BID AND PRIOR TO BEGINNING CONSTRUCTION. ALL ITEMS SHOWN ON THESE PLANS THAT DO NOT SPECIFICALLY STATE 'NOT-IN-CONTRACT (NIC)', SHALL BE INCLUDED IN THE BID COST, INCLUDING ITEMS THAT MAY BE OUTSIDE THE PROJECT LIMITS.
- LOCATIONS OF EXISTING UTILITY LINES HAVE BEEN TAKEN FROM UTILITY RECORDS SUPPLEMENTED BY FIELD INSPECTIONS AND SHOULD INDICATE IN GENERAL THE TYPE OF UNDERGROUND UTILITIES NOW IN SERVICE. LOCATIONS SHOWN ARE NOT GUARANTEED. DEVELOPERS AND/OR CONTRACTORS SHALL NOT ONLY MAKE SUBSURFACE INVESTIGATIONS BUT SHALL ALSO ALLOW FOR CONTINGENCIES WHICH MIGHT ARISE BY REASON OF ENCOUNTERING UNRECORDED LINES OR LINES BEING IN DIFFERENT LOCATIONS THAN INDICATED ON THESE PLANS. AT LEAST 48-HOURS PRIOR OR SOONER IF REQUIRED BY THE LOCAL MUNICIPALITY TO ANY CONSTRUCTION ACTIVITY, EXCAVATION, GRADING, OR DIGGING ON THE SITE, THE GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY AND/OR FIELD-LOCATE THEIR RESPECTIVE UTILITIES (THE NORTH CAROLINA ONE CALL CENTER - 1-800-632-4949). ALL DAMAGE INCURRED TO EXISTING UTILITY LINES DURING CONSTRUCTION SHALL BE REPAIRED AT THE GENERAL CONTRACTORS EXPENSE.
- SURVEY, BASE MAPPING, & TOPOGRAPHICAL DATA PROVIDED BY LKC ENGINEERING, PLLC, JEFFREY L. GREEN, PLS, 140 AQUA SHED CT., ABERDEEN, NC 28315, TEL. 910-420-1437.

REVISIONS			
SYM.	DESCRIPTION	DATE	BY



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GENERAL NOTES  
AND LEGEND

CARTHAGE DOWNTOWN  
REVITALIZATION  
Carthage, North Carolina

DATE: OCTOBER, 2025  
DESIGNED:  
DRAWN: MFL  
CHECKED: JDM

NO. C-1.0



LEGEND / KEY

NAME:	EXISTING	NEW	EROSION CONTROL:	NEW
ASPHALT PAVEMENT			TEMP. CONST ENT.	
CABLE TV			TEMP. SILT FENCE	
CENTERLINE			TEMP. DIVERSION	
CURB & GUTTER			TEMP. INLET PROTECT.	
CONCRETE			TEMP. ROCK PIPE INLET PROTECTION	
CONTOUR MAJOR			RIPRAP DISSIPATOR	
CONTOUR MINOR			TEMP. SILT FENCE OUTLET	
EASEMENT			TEMP. SKIMMER BASIN WITH BAFFLES	
FENCE			FAIRCLOTH SKIMMER	
FIBER OPTIC			TEMP. SEDIMENT TRAP WITH BAFFLES	
FORCE MAIN			TREE PROTECTION	
GAS LINE			ROLLED EROSION CONTROL MATTING	
GAS VALVE				
LIMITS OF DIST/CONST				
LIGHT POLE				
OVERHEAD ELECTRIC				
POWER POLE				
PROPERTY LINE				
PROPERTY LINE - ADJ				
RAILROAD				
RIGHT-OF-WAY (ROW)				
SANITARY SEWER LINE				
SANITARY SEWER MH				
SANITARY SEWER CO				
SPOT EL. GS				
SPOT EL. TOC				
SPOT EL. TOW				
STORM DRAIN FES				
STORM DRAIN LINE				
STORM DRAIN MH				
STORM DRAIN CI				
STORM DRAIN GI				
STORM DRAIN YI				
TELEPHONE LINE				
TELEPHONE PEDESTAL				
UNDERGROUND ELEC.				
UTILITY POLE				
WATER LINE				
WATER VALVE				
FIRE HYDRANT				
WATER METER				
WATER LINE BACKFLOW				
WATER LINE REDUCER				

ABBREVIATIONS

ABBREVIATION:	DESCRIPTION:	ABBREVIATION:	DESCRIPTION:
A/C	AIR CONDITIONING	NIC	NOT IN CONTRACT
ADJ	ADJACENT	NTS	NOT TO SCALE
AL	AREA LIGHT		
APROX	APPROXIMATE	O.C.	ON CENTER
ASSM	ASSEMBLY	OHE	OVERHEAD ELECTRIC
ASPH	ASPHALT		
		PC	POINT OF CURVATURE
BLDG	BUILDING	PI	POINT OF INTERSECTION
B.O.	BLOW-OFF	PIV	POST INDICATION VALVE
BOC	BACK OF CURB	PP	POWER POLE
BOW	BOTTOM OF WALL	PT	POINT OF TANGENCY
BX	BOX	PVC	POLYVINYL CHLORIDE
		PVMT	PAVEMENT
C.F.	CUBIC FOOT		
CI	CURB INLET	R	RADIUS
CL	CENTER LINE	R.J.	RESTRAINED JOINT
CONC	CONCRETE	R/W, ROW	RIGHT OF WAY
CONST	CONSTRUCTION	RCP	REINFORCED CONCRETE PIPE
CY	CUBIC YARD	RDCO	ROOF DRAIN CLEAN OUT
		REQD	REQUIRED
DEMO	DEMOLISH (DEMOLITION)	RQMT	REQUIREMENT
DP	DEEP	RT	RIGHT
DI	DUCTILE IRON	RWM	RIGHT OF WAY MONUMENT
D.I.P.	DUCTILE IRON PIPE		
DIA	DIAMETER	SCH	SCHEDULE
DIM	DIMENSION	SD	STORM DRAIN
DWG	DRAWING	SDCO	STORM DRAIN CLEAN OUT
		SDMH	STORM DRAIN MANHOLE
ECM	EXISTING CONCRETE MONUMENT	SED	SEDIMENT
EIP	EXISTING IRON PIPE	SF	SQUARE FOOT
EIS	EXISTING IRON STAKE	SPEC	SPECIFICATION
ELEC	ELECTRIC	SQ	SQUARE
ELEV	ELEVATION	SS	SANITARY SEWER
ELMH	ELECTRICAL MANHOLE	SSCO	SANITARY SEWER CLEAN OUT
ENCL	ENCLOSURE	SSMH	SANITARY SEWER MANHOLE
EOC	EDGE OF CONCRETE	STA	STATION
EOP	EDGE OF PAVEMENT	SY	SQUARE YARD
EQPT	EQUIPMENT		
ESMT	EASEMENT	TBM	TEMPORARY BENCHMARK
EX	EXISTING	TEL	TELEPHONE
		TEMP	TEMPORARY
FES	FLARED END SECTION	THK	THICK
FFE	FINISH FLOOR ELEVATION	TOC, T/C	TOP OF CURB
FH	FIRE HYDRANT	TOW	TOP OF WALL
FNC	FENCE	TPED	TELEPHONE PEDESTAL
FO	FIBER OPTIC	TS&V	TAPPING SADDLE & VALVE
FOC	FACE OF CURB	TYP	TYPICAL
FT	FOOT		
		UGE	UNDERGROUND ELECTRIC
G.V.	GATE VALVE	UTIL	UTILITY
GALV	GALVANIZE		
GND	GROUND		
GRAV	GRAVEL		
HDPE	HIGH DENSITY POLYETHYLENE		
L	LENGTH		
LF	LINEAR FOOT		
LFT	LEFT		
MAX	MAXIMUM		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
M.J.	MECHANICAL JOINT		

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UTILITY KEY NOTING:		
SYMBOL	DESCRIPTION	SHEET REFERENCE
①	INSTALL GATE VALVE ASSEMBLY	SEE SHT. D-02, #1
②	INSTALL FIRE HYDRANT ASSEMBLY	SEE SHT. D-02, #2

REVISIONS			
SYM.	DESCRIPTION	DATE	BY

- NOTES:**
- ALL GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND OTHER INFORMATION INDICATED ON SHEET C-01 SHALL APPLY TO THIS PLAN.
  - THE PURPOSE OF THE PLAN IS FOR INFORMATIONAL PURPOSES ONLY. THOUGH THIS PLAN IS FROM AN ACTUAL FIELD SURVEY IT IS NOT AND SHOULD NOT BE CONSIDERED A RECORDABLE DOCUMENT.
  - ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR WITH THE SURVEYOR OF RECORD PRIOR TO BEGINNING CONSTRUCTION. BENCHMARK IS AN EIP LOCATED WITHIN THE COURTHOUSE SQUARE, HAVING AN ELEVATION OF 583.21'.
  - LOCATIONS OF EXISTING UTILITY LINES HAVE BEEN TAKEN FROM UTILITY RECORDS SUPPLEMENTED BY FIELD INSPECTIONS AND SHOULD INDICATE IN GENERAL THE TYPE OF UNDERGROUND FACILITIES NOW IN SERVICE. HOWEVER, LOCATIONS SHOWN ARE NOT GUARANTEED AND ANY FURTHER DEVELOPERS OR CONTRACTORS SHOULD NOT ONLY MAKE SUBSURFACE INVESTIGATIONS BUT SHOULD ALSO ALLOW FOR CONTINGENCIES WHICH MIGHT ARISE BY REASON OF ENCOUNTERING UNRECORDED LINES OR LINES BEING IN DIFFERENT LOCATIONS THAN INDICATED ON THIS PLAT.
  - COORDINATE ALL ELECTRICAL LINE RELOCATION WITH DUKE PROGRESS ENERGY.
  - HORIZONTAL COORDINATES BASED ON NC GRID NAD83 AND ELEVATIONS BASED ON NAVD88 DATUM.
  - ALL DISTANCES ARE HORIZONTAL GROUND.
  - AREA BY COORDINATE COMPUTATION.
  - SURVEY INFORMATION FROM THE SURVEYOR OF RECORD, LKC ENGINEERING, PLLC; JEFFREY L. GREEN, PLS, LIC. # L-3972; 140 AQUA SHED CT, ABERDEEN, NC 28315, TEL # 910-420-1437.



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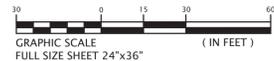
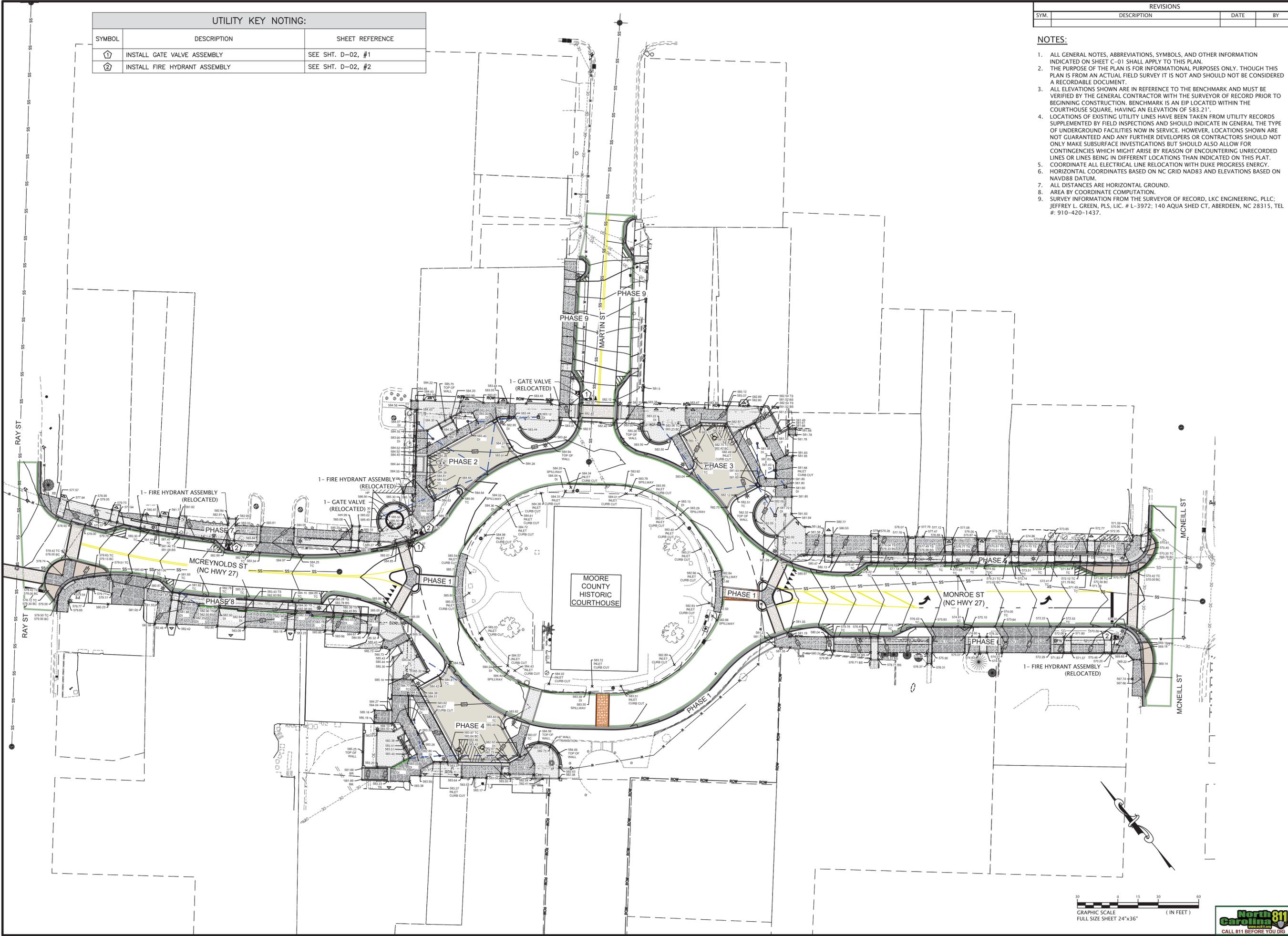
Engineering  
 Landscape Architecture  
 Surveying



UTILITY PLAN

CARTHAGE DOWNTOWN  
 REVITALIZATION  
 Carthage, North Carolina

DATE: OCTOBER, 2025  
 DESIGNED:  
 DRAWN: MFL  
 CHECKED: JDM  
 NO. C-9.0



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 Landscape Architecture  
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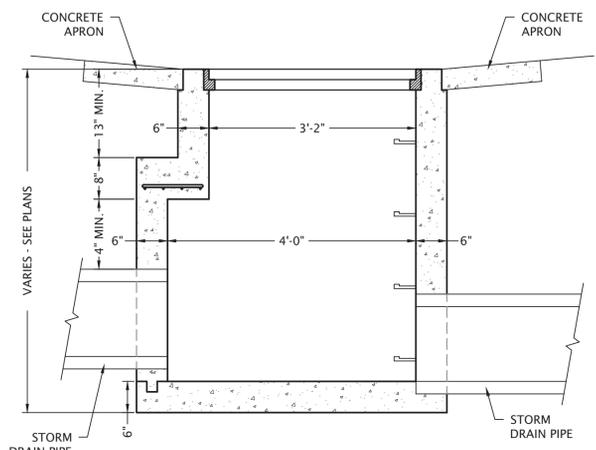
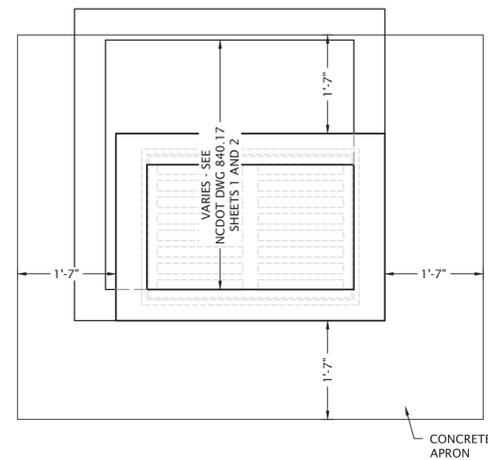
DRAINAGE DETAILS

CARTHAGE DOWNTOWN  
 REVITALIZATION  
 Carthage, North Carolina

DATE: OCTOBER, 2025  
 DESIGNED:  
 DRAWN: MFL  
 CHECKED: JDM

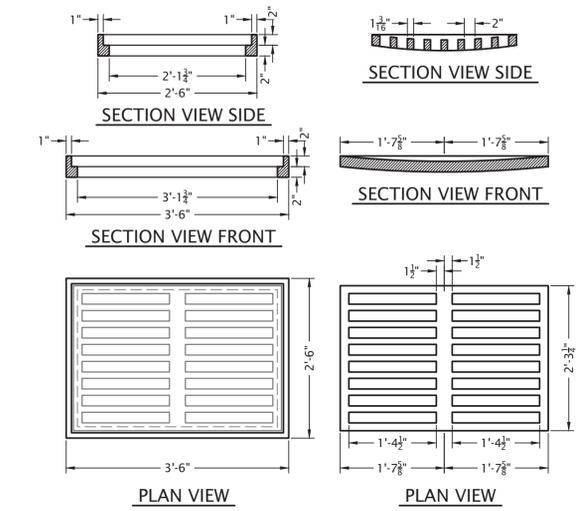
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D-01

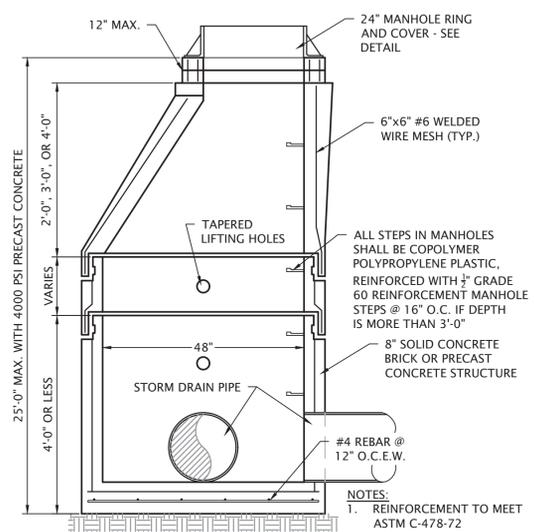


NOTES:  
 1. ALL MATERIALS, DIMENSIONS AND CONSTRUCTION SHALL CONFORM TO NCDOT STD. DWG. 840.17 BRICK OR CONCRETE DROP INLETS TYPE "A".

1 GRATE INLET  
NOT TO SCALE

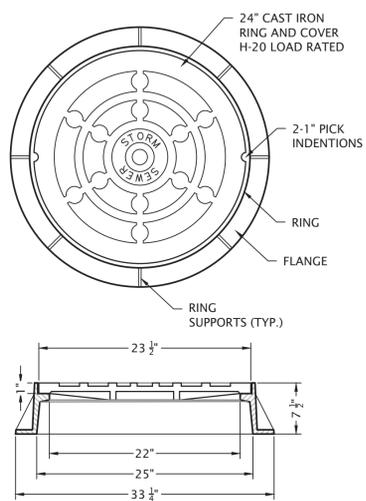


2 24"x36" FRAME AND GRATE  
NOT TO SCALE

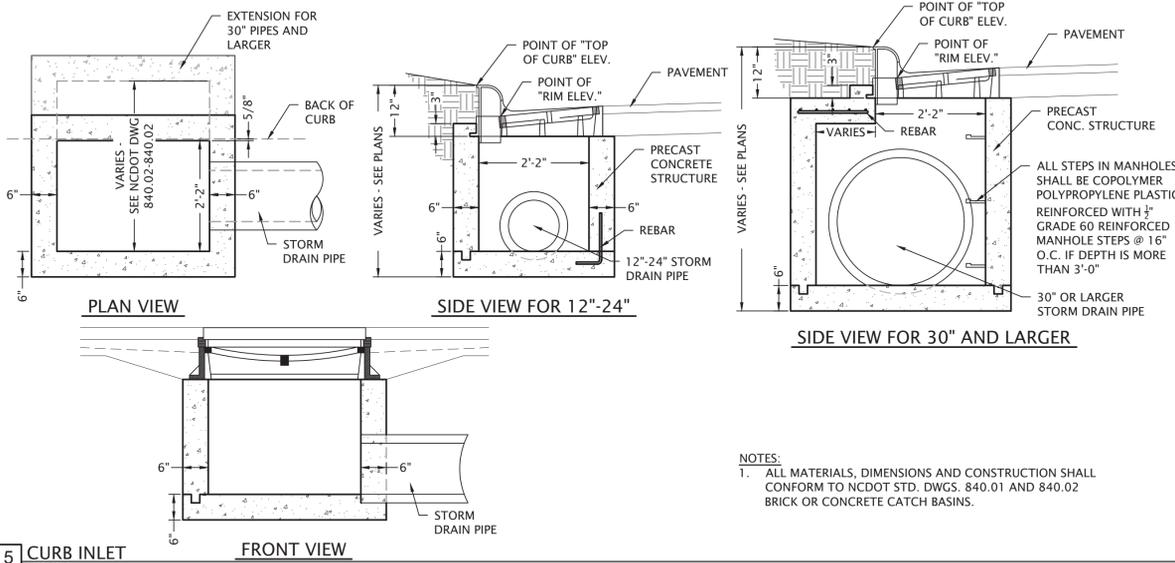


NOTES:  
 1. REINFORCEMENT TO MEET ASTM C-478-72  
 2. WIRE MESH: ASTM A-1 85-69

3 STORM DRAIN MANHOLE  
NOT TO SCALE



4 24" STORM DRAIN MANHOLE RING AND COVER  
NOT TO SCALE



NOTES:  
 1. ALL MATERIALS, DIMENSIONS AND CONSTRUCTION SHALL CONFORM TO NCDOT STD. DWGS. 840.01 AND 840.02 BRICK OR CONCRETE CATCH BASINS.

5 CURB INLET  
NOT TO SCALE

**STORM DRAIN PIPE NOTES:**

1. ALL STORM DRAINAGE SHALL BE RCP UNLESS OTHERWISE NOTED ON PLANS.
2. STORM DRAINAGE PIPING IN ANY NCDOT RIGHT-OF-WAY SHALL BE CLASS 3 OR BETTER AND STAMPED FOR NCDOT.
3. STORM DRAINAGE PIPING IN NON-NCDOT RIGHT-OF-WAY UNDER PAVEMENT SHALL BE CLASS 3 OR BETTER, STAMP NOT REQUIRED.
4. CLASS 4 STORM DRAINAGE PIPING SHALL BE UTILIZED WHEN THERE IS TWO FEET OF COVER OR LESS. ONE FOOT MINIMUM OF COVER IS REQUIRED.

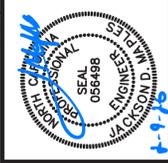
**STORM DRAIN PIPE SEPARATION NOTES:**

1. THE MINIMUM VERTICAL CLEARANCE BETWEEN STORM DRAINAGE AND SANITARY SEWER LINES SHALL BE 24-INCHES UNLESS DUCTILE IRON IS SPECIFIED FOR THE SANITARY SEWER LINES.
2. STORM DRAINAGE PIPE HAVING WATER MAINS CROSSING OVER, OR UNDER MUST MAINTAIN A VERTICAL SEPARATION OF AT LEAST 18-INCHES. IN ADDITION, IF A WATER MAIN MUST CROSS UNDER A STORM DRAINAGE PIPE, THE WATER MAIN SHALL BE MADE OF DUCTILE IRON FOR A MINIMUM OF 10 FEET ON BOTH SIDES OF THE CROSSING.

6 STORM DRAIN PIPE NOTES  
NOT TO SCALE

File: L:\102-5-01\_Carthage Downtown Streetscape\800 Drawings\810 Design Drawings\810 Civil\810-24.01\_DETALL.dwg, Rv: Sakar, Ploied: Tue Feb 10, 2026 at 1:26pm

REVISIONS			
SYM.	DESCRIPTION	DATE	BY



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Engineering  
 Landscape Architecture  
 Surveying

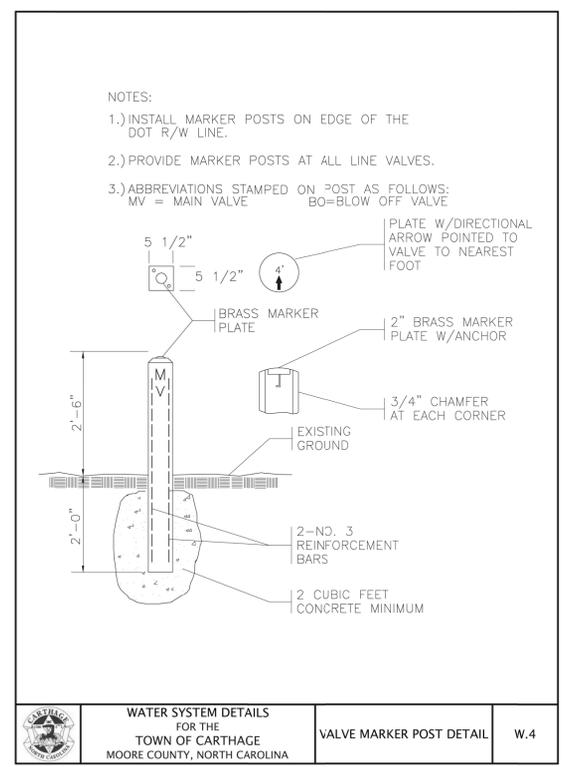
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UTILITY DETAILS

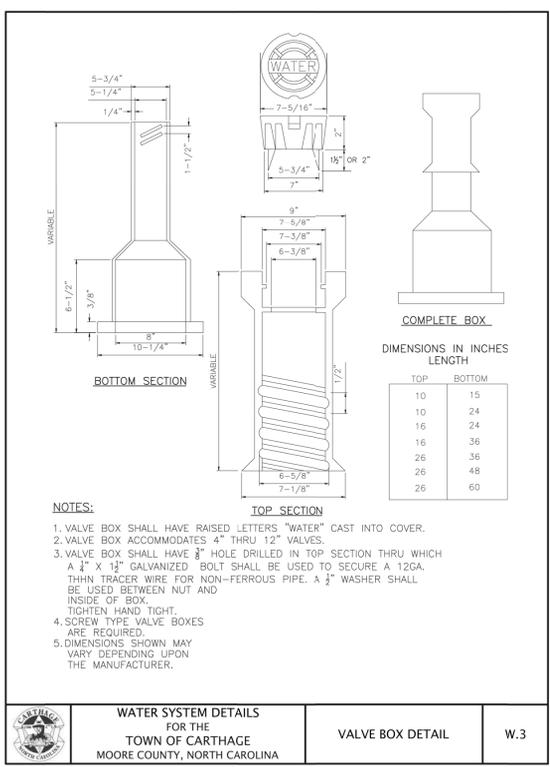
CARTHAGE DOWNTOWN  
 REVITALIZATION  
 Carthage, North Carolina

DATE: OCTOBER, 2025  
 DESIGNED:  
 DRAWN: MFL  
 CHECKED: JDM

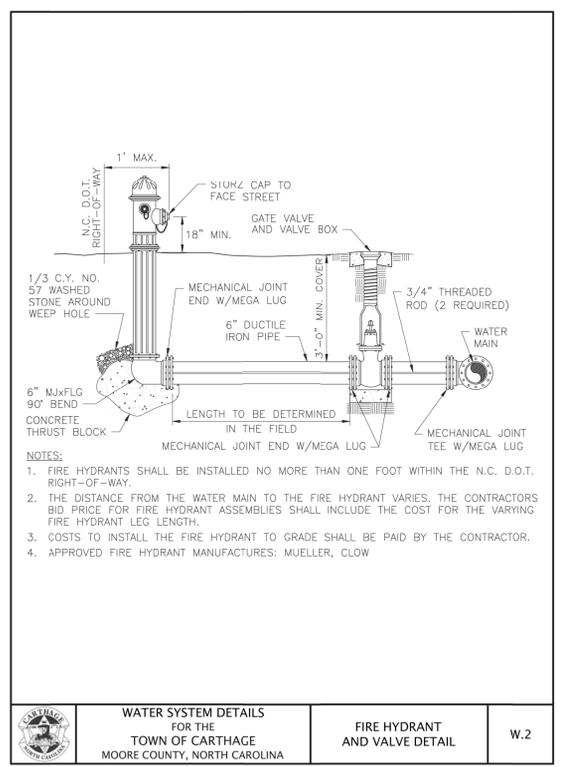
NO. **D-02**



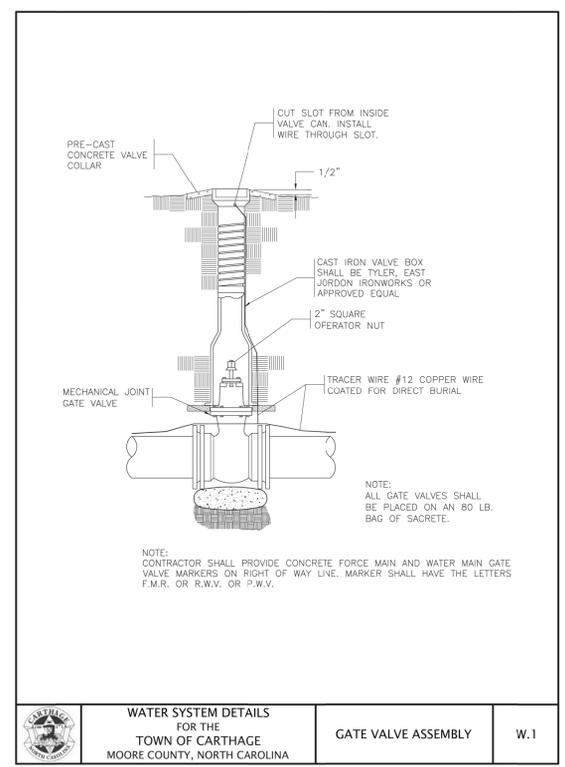
WATER SYSTEM DETAILS FOR THE TOWN OF CARTHAGE MOORE COUNTY, NORTH CAROLINA  
 VALVE MARKER POST DETAIL W.4



WATER SYSTEM DETAILS FOR THE TOWN OF CARTHAGE MOORE COUNTY, NORTH CAROLINA  
 VALVE BOX DETAIL W.3



WATER SYSTEM DETAILS FOR THE TOWN OF CARTHAGE MOORE COUNTY, NORTH CAROLINA  
 FIRE HYDRANT AND VALVE DETAIL W.2



WATER SYSTEM DETAILS FOR THE TOWN OF CARTHAGE MOORE COUNTY, NORTH CAROLINA  
 GATE VALVE ASSEMBLY W.1

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