UC-4 THRU UC-7

DESIGNED BY:

CHECKED BY:

DESCRIPTION

UTILITY SYMBOLOGY SHEET

UC-2

WATER AND SEWER OWNERS ON PROJECT

(1) WATER - TOWN OF HARRISBURG

(2) SANITARY GRAVITY SEWER - TOWN OF HARRISBURG (3) SANITARY FORCE MAIN - CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT (CMUD)

MA Engineering
CONSULTANTS, INC.
598 East Chatham Street Suite 137 Cary, NC 27511
Phone: 919.297.0220 Fax: 919.297.0221

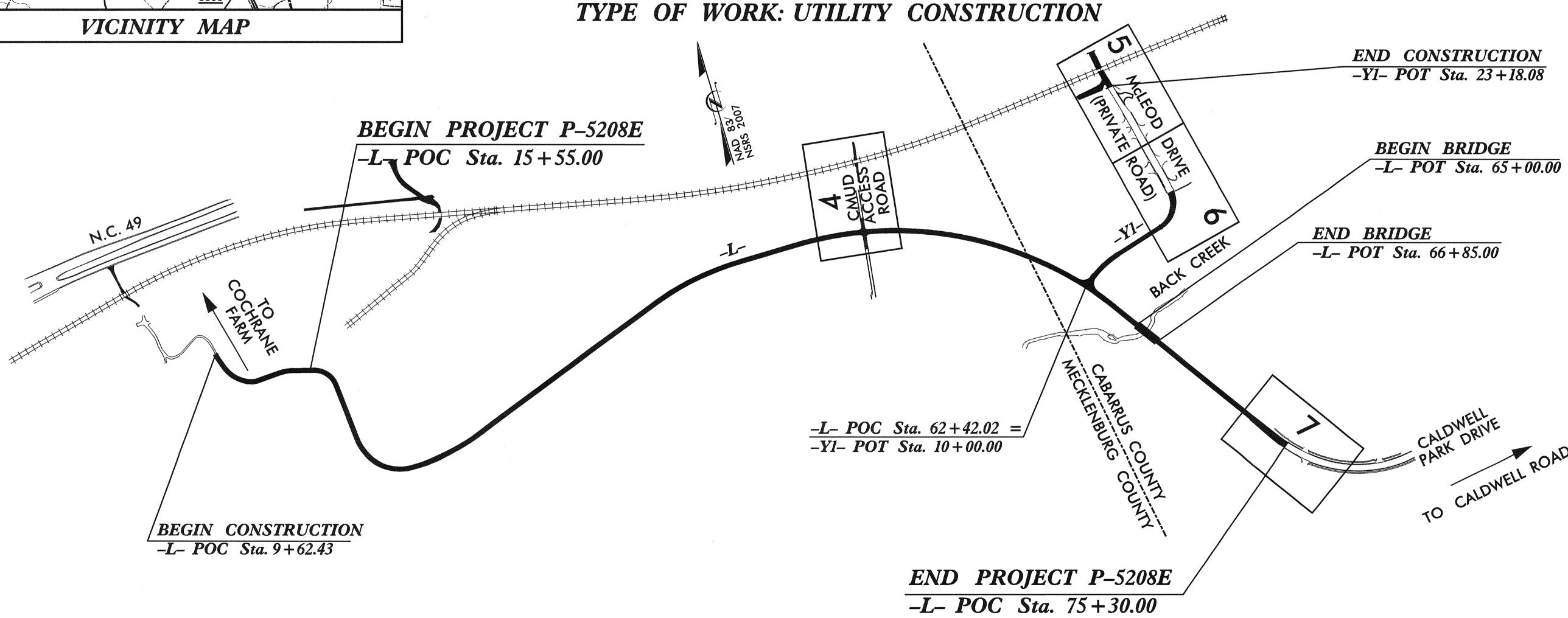
Roger Worthington, P.E. UTILITIES SECTION ENGINEER

Xxxxx Xxxxx, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER

STATE OF NORTH CAROLINA RAIL DIVISION

UTILITY CONSTRUCTION PLANS MECKLENBURG / CABARRUS COUNTIES

LOCATION: CALDWELL PARK DRIVE EXTENSION ON NEW LOCATION FROM COCHRANE FARM PROPERTY TO EXISTING CALDWELL PARK DRIVE



GRAPHIC SCALE

INDEX OF SHEETS

UC-I TITLE SHEET

UC-3 UTILITY NOTES & DETAIL SHEET

UTILITY CONSTRUCTION PLAN SHEETS

2013-JAN-30

Xxxxx Xxxxx

UC-1

T.I.P. NO.

P-5208E

PREPARED IN THE OFFICE OF:

UTILITIES PROJECT DESIGNER

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA RAIL DIVISION

PROJECT REFERENCE NO. P-5208E DESIGNED BY: KCZ

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919)707-6690
FAX: (919)250-4151

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION
UTILITY CONSTRUCTION
PLANS ONLY

UTILITY CONSTRUCTION

UTILITIES PLAN SHEET SYMBOLS

Sewer Thrust Block

		Water
Proposed Back Flow PreventorRelocate Back Flow Preventor	RBFP	Proposed RPZ Back Flow Preventor Relocate RPZ Back Flow Preventor
Existing Water Valve Proposed Valve	GV	
Proposed Tapping Valve	TGV	Water Cross
Existing Water Meter Proposed Water Meter	PWM	Water Plug Water Reducer
Proposed Water Meter / Vault Relocate Water Meter	RWM	Water Tee
Remove Water Meter	·····REM WM	Water Thrust Block Blow Off Valve
Existing Hydrant	P <u>F</u> H	Air Release Valve
Prop Hydrant Relocate Hydrant	RFH RFH	Water Line Stop
Remove Hydrant	REM FH	
		Sewer
Existing Manhole	MH (B)	
Proposed UT Manhole	•	
Remove UT Manhole	REM UT MH	Sewer Cross
Abandon Utility Manhole	ABAND MH	Sewer Plug
Sewer Line Stop	LS	Sewer Reducer
Sewer Line Stop w Bypass	LS/BP	Sewer TeeI
		Sewer Pump Station PS(

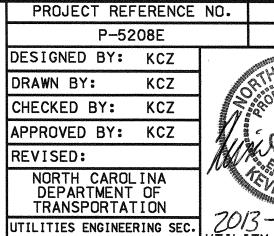
Utility By Other Symbols

Proposed	Tel Pole		O
Proposed	Power Pole ·····		o
Proposed	Joint Use Power, Tel Pol	e	- 6-
Proposed	Joint Use Power, CATV	Pole ·····	- 6-
Proposed	Joint Use Power, Tel, CA	TV Pole	-
Proposed	Joint Use Tel, CATV Pol	e	- 6-

PUE Monument Concrete Pier Steel Pile Pier Test Hole (SUE) Prop Utility Vault

REVISIONS





PLANS ONLY

SHEET NO.

UC-3

MA Engineering
CONSULTANTS, INC.
598 East Chatham Street Suite 137 Cary, NC 27511
Phone: 919.297.0220 Fax: 919.297.0221

UTILITY CONSTRUCTION

UTILITY CONSTRUCTION NOTES

GENERAL NOTES:

- 1. THE PROPOSED UTILITY CONSTRUCTION
 SHALL MEET THE APPLICABLE REQUIREMENTS
 OF THE NC DEPARTMENT OF TRANSPORTATION'S
 "STANDARD SPECIFICATIONS FOR ROADS AND
 STRUCTURES" DATED JANUARY 2012.
- 2. THE EXISTING UTILITIES BELONG TO:

CHARLOTTE-MECKLENGURG UTILITY DEPT CONTACT: WILLIAM DEAL PHONE: 704-391-5150

TOWN OF HARRISBURG CONTACT: DEREK SLOCUM PHONE: 704-455-4758

- 3. ALL WATER LINES TO BE INSTALLED
 WITHIN COMPLIANCE OF THE RULES AND
 REGULATIONS OF THE NORTH CAROLINA
 DEPARTMENT OF ENVIRONMENTAL AND NATURAL
 RESOURCES, DIVISION OF ENVIRONMENTAL
 HEALTH. ALL SEWER LINES TO BE INSTALLED
 WITHIN COMPLIANCE OF THE RULES AND
 REGULATIONS OF THE NORTH CAROLINA
 DEPARTMENT OF ENVIRONMENT AND NATURAL
 RESOURCES, DIVISION OF WATER QUALITY.
 PERFORM ALL WORK IN ACCORDANCE WITH THE
 APPLICABLE PLUMBING CODES.
- 4. THE UTILITY OWNER OWNS THE EXISTING
 UTILITY FACILITIES AND WILL OWN THE NEW
 UTILITY FACILITIES AFTER ACCEPTANCE BY
 THE DEPARTMENT. THE DEPARTMENT OWNS THE
 CONSTRUCTION CONTRACT AND HAS
 ADMINISTRATIVE AUTHORITY. COMMUNICATIONS
 AND DECISIONS BETWEEN THE CONTRACTOR AND
 UTILITY OWNER ARE NOT BINDING UPON THE
 DEPARTMENT OR THIS CONTRACT UNLESS
 AUTHORIZED BY THE ENGINEER. AGREEMENTS
 BETWEEN THE UTILITY OWNER AND CONTRACTOR
 FOR THE WORK THAT IS NOT PART OF THIS
 CONTRACT OR IS SECONDARY TO THIS
 CONTRACT ARE ALLOWED, BUT ARE NOT
 BINDING UPON THE DEPARTMENT.

- 5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.
- 6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITONAL COST TO THE DEPARTMENT.
- 7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
- 8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
- 9. ALL UTILITY MATERIALS SHALL BE
 APPROVED PRIOR TO DELIVERY TO THE
 PROJECT. SEE 1500-7, " SUBMITTALS AND
 RECORDS" IN SECTION 1500 OF THE STANDARD
 SPECIFICATIONS.

PROJECT SPECIFIC NOTES:

- 1. NO RELOCATION OF WATER LINES, HYDRANTS, OR SANITARY SEWER LINES ARE ANTICIPATED.
- 2. SANITARY SEWER CLEAN OUT ON McCLEOD DRIVE REQUIRES ADJUSTMENT TO PROPOSED ROADWAY GRADE. SEE SHEET UC-6 FOR LOCATION. SEE DETAIL ON THIS SHEET FOR CLEAN OUT COVER ASSEMBLY.
- 3. VALVE BOX ADJUSTMENTS REQUIRED ON CALDWELL PARK DRIVE. SEE SHEET UC-7 FOR LOCATIONS.

UTILITY CONSTRUCTION DETAIL

