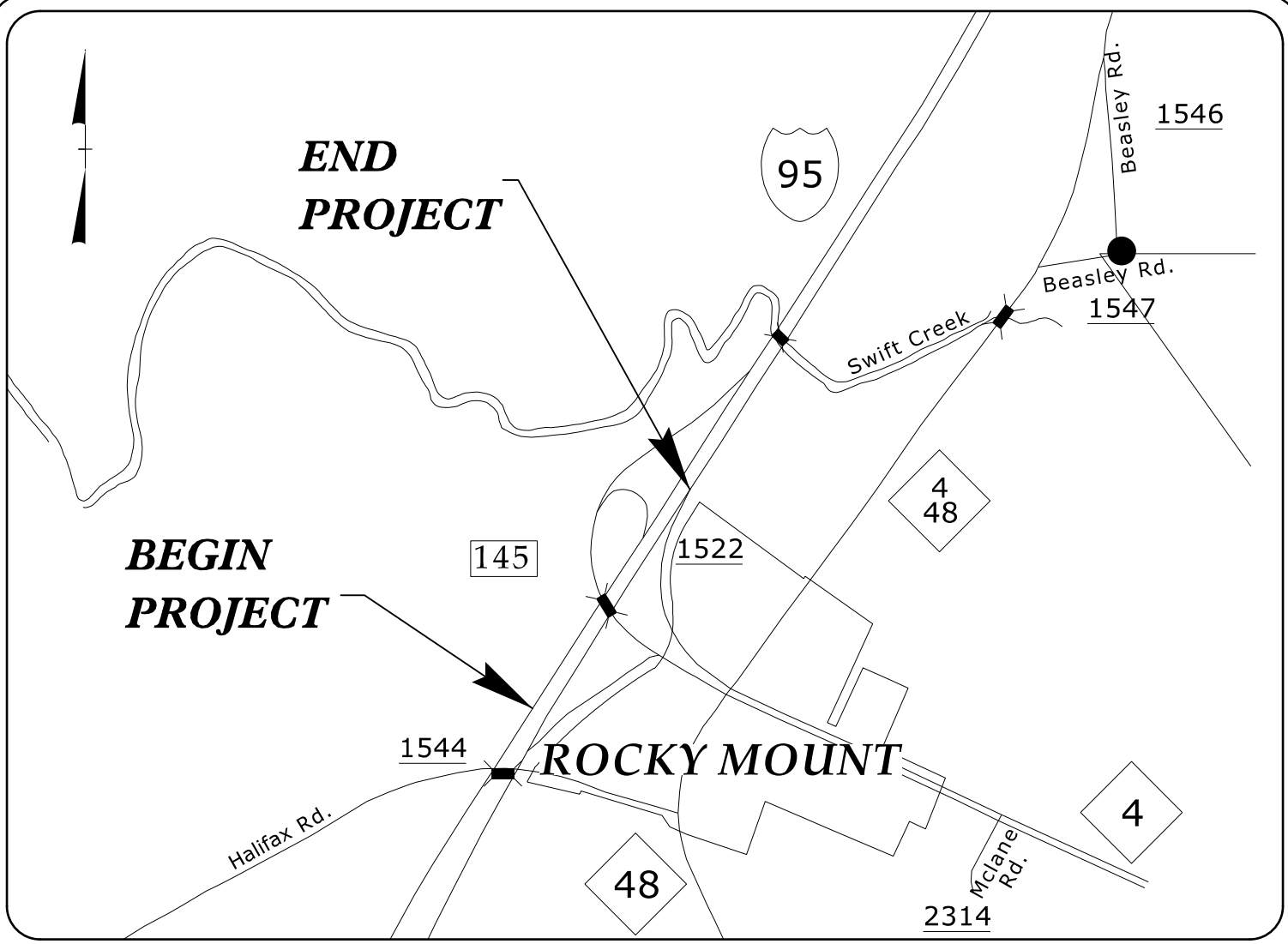
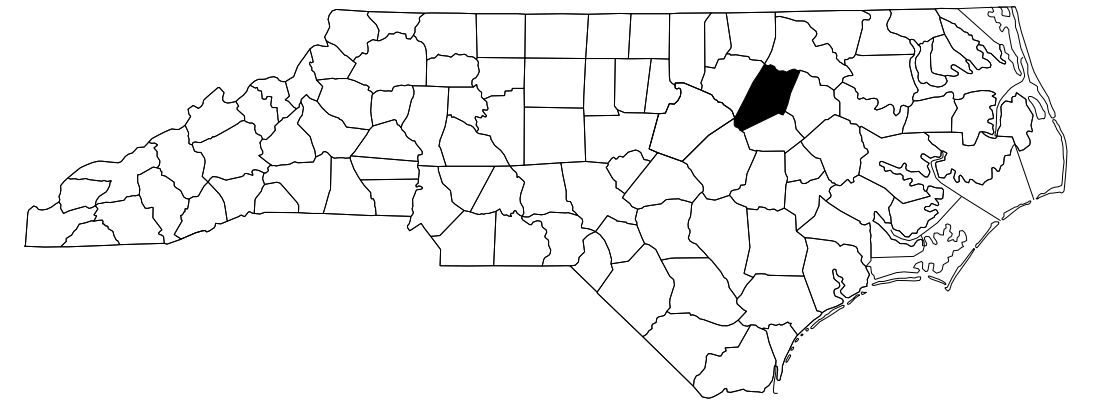


T.I.P. NO.	SHEET NO.
B-5980	UC-1

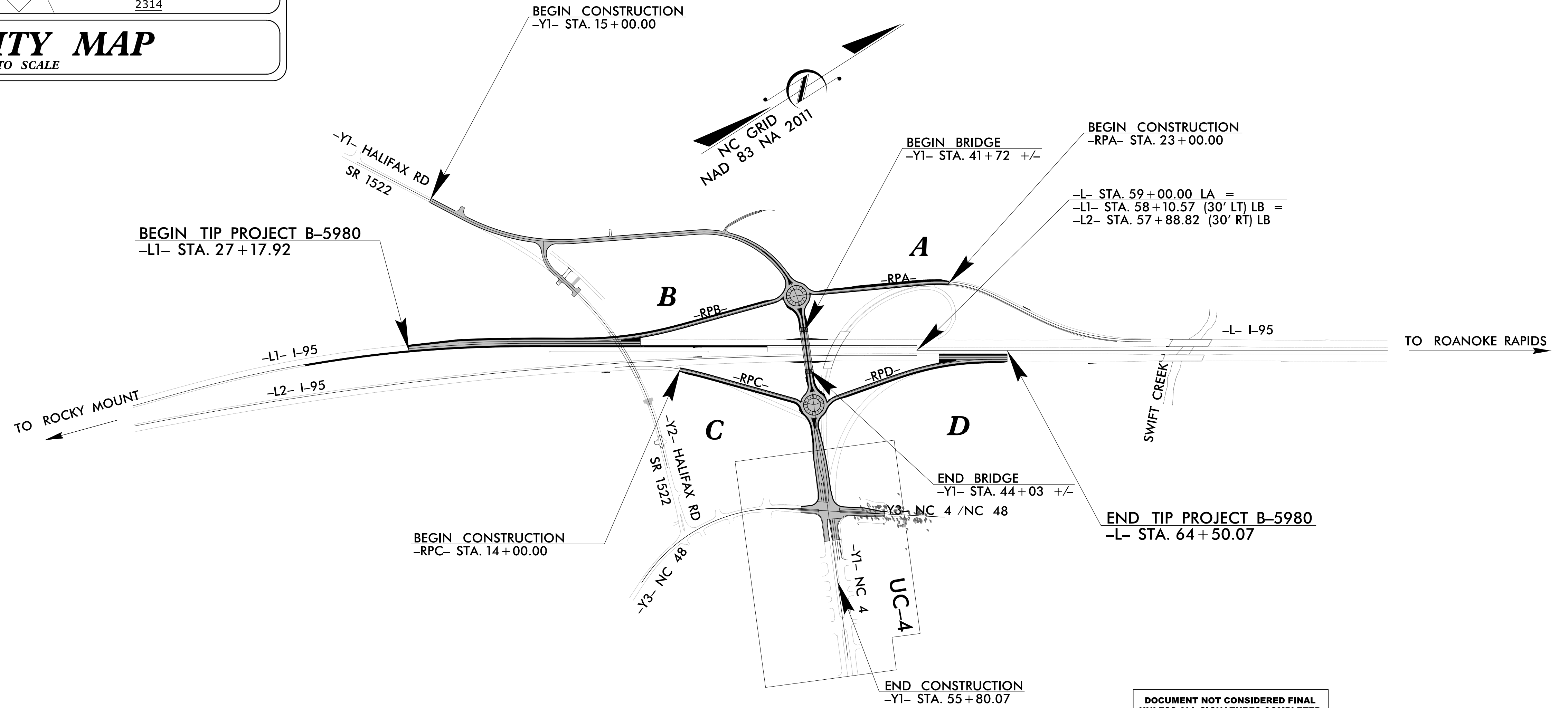
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS NASH COUNTY

LOCATION: I-95 INTERCHANGE IMPROVEMENTS
AT HALIFAX ROAD (SR 1522)
TYPE OF WORK: WATER MAIN RELOCATION



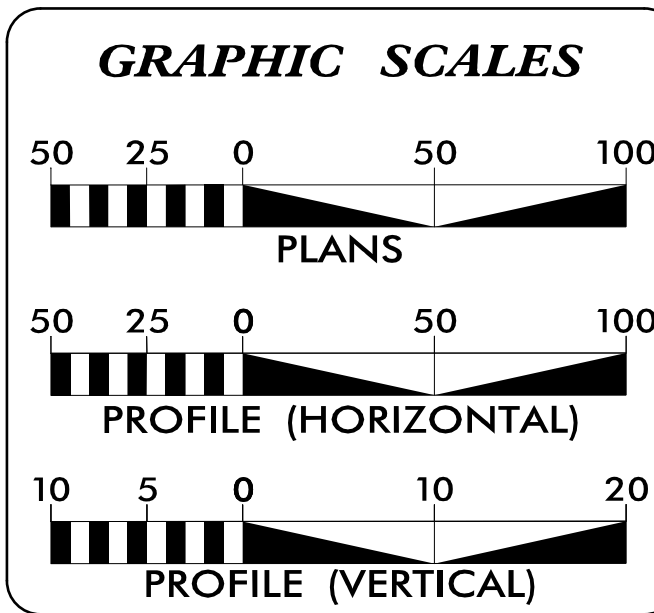
VICINITY MAP
NOT TO SCALE



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UNLESS ALL SIGNATURES COMPLETED

TIP PROJECT: B-5980

CONTRACT: C204350



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	LEGEND OF SYMBOLS
UC-3	GENERAL NOTES
UC-3A thru UC-3C	CONSTRUCTION DETAILS
UC-4	UTILITY CONST. PLAN SHEET
UC-5	UTILITY CONST. PROFILE

WATER AND SEWER OWNERS ON PROJECT

(A) WATER: CITY OF ROCKY MOUNT
(B) SANITARY SEWER: CITY OF ROCKY MOUNT

PREPARED IN THE OFFICE OF:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F - 0342

2018 STANDARD SPECIFICATIONS

LETTING DATE:
JUNE 15, 2021

Steve Scruggs, PE
UTILITIES PROJECT ENGINEER

SEAL

5/6/2021

D. Stephen Scruggs

**DIVISION OF HIGHWAYS
DIVISION 4**
509 WARD BLVD
WILSON, NC 27895
PHONE: (252)640-6400
FAX: (252)234-6174

Kevin Bowen, PE DIVISION ENGINEER
Russell Broadwell, PE DIVISION PROJECT ENGINEER
Kyle Pleasant DIVISION UTILITIES ENGINEER
Frank Zdelar DIVISION UTILITIES COORDINATOR

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	12" WL
11¼ Degree Bend	+
22½ Degree Bend	+
45 Degree Bend	+
90 Degree Bend	+
Plug	+
Tee	+
Cross	+
Reducer	▶
Gate Valve	GV
Butterfly Valve	BV
Tapping Valve	TGV
Line Stop	LS
Line Stop with Bypass	LS/BP
Blow Off	BO
Fire Hydrant	PFH
Relocate Fire Hydrant	RFH
Remove Fire Hydrant	REM FH
Water Meter	PWM
Relocate Water Meter	RWM
Remove Water Meter	REM WM
Water Pump Station	PST(W)
RPZ Backflow Preventer	PRPZ
DCV Backflow Preventer	PBFP
Relocate RPZ Backflow Preventer	RRPZ
Relocate DCV Backflow Preventer	RBFP

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	12" SS
Force Main Sewer Line (Sized as Shown)	12" FSS
Manhole (Sized per Note)	•
Sewer Pump Station	PS(SS)

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	⊙
Telephone Pole	⊙
Joint Use Pole	⊙
Telephone Pedestal	TEL PED
Utility Line by Others (Type as Shown)	PROP O/H POW LINES
Trenchless Installation	12" TL INSTALL
Encasement by Open Cut	24" ENCAS BY OC
Encasement	24" ENCASEMENT

Thrust Block	⊥
Air Release Valve	AR
Utility Vault	UV
Concrete Pier	CP
Steel Pier	SP
Plan Note	NOTE
Pay Item Note	PAY ITEM

EXISTING UTILITIES SYMBOLS

Power Pole	⊙	*Underground Power Line	P
Telephone Pole	⊙	*Underground Telephone Cable	T
Joint Use Pole	⊙	*Underground Telephone Conduit	TC
Utility Pole	•	*Underground Fiber Optics Telephone Cable	T FO
Utility Pole with Base	□	*Underground TV Cable	TV
H-Frame Pole	•	*Underground Fiber Optics TV Cable	TV FO
Power Transmission Line Tower	⊠	*Underground Gas Pipeline	G
Water Manhole	⊙	Aboveground Gas Pipeline	A/G Gas
Power Manhole	⊙	*Underground Water Line	W
Telephone Manhole	⊙	Aboveground Water Line	A/G Water
Sanitary Sewer Manhole	•	*Underground Gravity Sanitary Sewer Line	SS
Hand Hole for Cable	⊠	Aboveground Gravity Sanitary Sewer Line	A/G Sanitary Sewer
Power Transformer	⊠	*Underground SS Forced Main Line	FSS
Telephone Pedestal	TEL PED	Underground Unknown Utility Line	?UTL
CATV Pedestal	⊠	SUE Test Hole	•
Gas Valve	◇	Water Meter	⊙
Gas Meter	◇	Water Valve	•
Located Miscellaneous Utility Object	•	Fire Hydrant	◇
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	⊙
End of Information	E.O.I.		

*For Existing Utilities
 Utility Line Drawn from Record (Type as Shown) ?UTL
 Designated Utility Line (Type as Shown) ?UTL - - - -

5/14/99

UTILITY CONSTRUCTION

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 2018.
2. THE EXISTING WATER AND SEWER UTILITIES BELONG TO THE CITY OF ROCKY MOUNT.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. 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 ADDITIONAL 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. WATER SERVICE TO THE EXISTING CONVENIENCE STORE LOCATED ON THE FAMILY HOSPITALITY LLC PARCEL SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL FIRST INSTALL THE NEW WATER SERVICE UNDER NC 48 AND CONNECT TO THE EXISTING WATER SERVICE BEFORE TAKING THE EXISTING 8-INCH WATER MAIN OUT OF SERVICE. RECONNECT SERVICE TO THE EXISTING WATER METER REGARDLESS OF THE SCHEDULE FOR THE PROPERTY OWNER TO INSTALL THE DOUBLE CHECK VALVE (DCV) BACKFLOW PREVENTION ASSEMBLY.
2. A SCHEDULE FOR RECONNECTING THE NEW 6-INCH WATER MAIN TO THE EXISTING WATER VAULT SERVING PARCEL 7 IS NOT REQUIRED SINCE THERE ARE NO CURRECT WATER USERS.

Prepared In the Office of:



AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F - 0342

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PROJECT REFERENCE NO. B-5980	SHEET NO. UC-3
DESIGNED BY:	9/7/2019
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs UTILITY CONSTRUCTION PLANS ONLY	

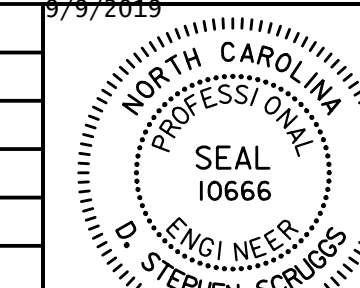
UTILITY CONSTRUCTION

Prepared In the Office of:

AECOM

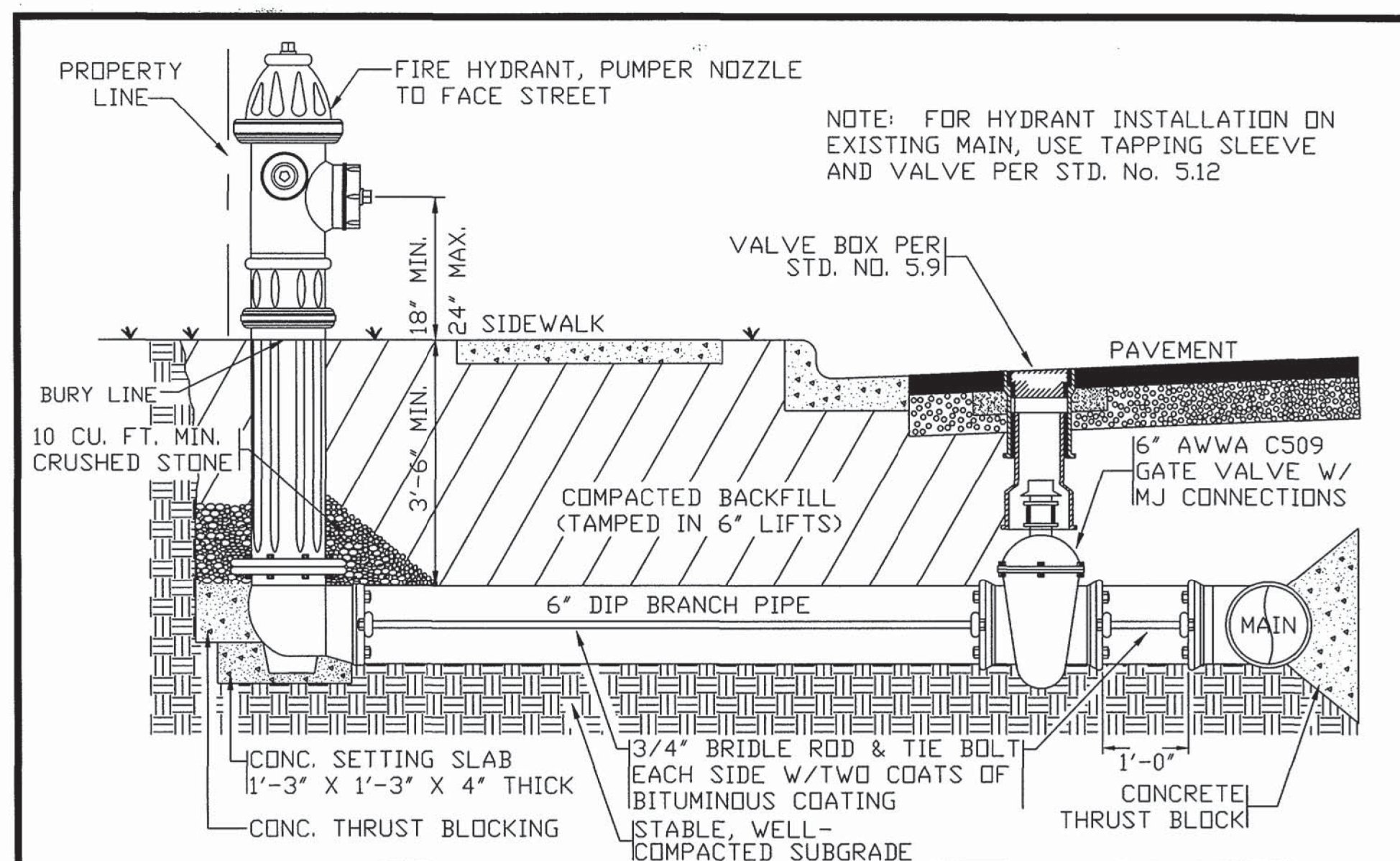
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F - 0342

PROJECT REFERENCE NO.	SHEET NO.
B-5980	UC-3A
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION	
D. Stephen Scruggs	
PHONE: (919) 707-6690	
FAX: (919) 250-4151	



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UTILITY CONSTRUCTION



REVISIONS			APPROVED	STD. NO.
NO	DATE	DESCRIPTION		5.1
			DATE	REVISION
			03-29-06	

HYDRANT INSTALLATION (SHEET 1 OF 2)

CITY OF ROCKY MOUNT
DEPT. OF ENGINEERING

HYDRANT GENERAL CONSTRUCTION NOTES

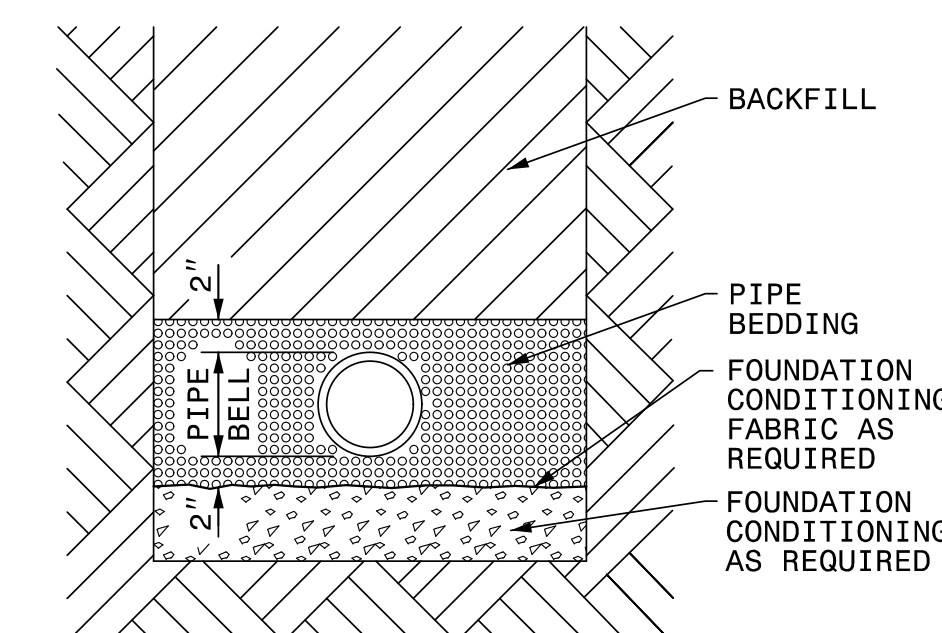
- FIRE HYDRANT:** HYDRANT SHALL BE AWWA C502, DRY BARRELL, DRY BONNET, THREE-WAY HYDRANT WITH 3' 6" MIN. BURY, 4 1/2" MIN. MAIN VALVE OPENING, 4 1/2" PUMPER NOZZLE, TWO EACH 2 1/2" HOZE NOZZLES, REPLACEABLE BRONZE NOZZLES WITH NATIONAL STANDARD THREADS, BREAK-AWAY TRAFFIC FEATURE, AND BRONZE ON BRONZE SEAT RINGS. HYDRANT SHALL HAVE PENTAGON SHAPED (5 SIDED) OPERATING NUT AND SHALL OPEN TURNING LEFT (COUNTER-CLOCKWISE.)
- MANUFACTURERS:** AMERICAN DARLING MK-73-1 FRANKLIN
MUELLER CENTURION A421 CLOW
KENNEDY GUARDIAN
WATERDUS TREND 100
- PAINT:** CHAINS SHALL BE REMOVED, AND HYDRANT SHALL BE PAINTED WITH RUSTOLEUM #964 FEDERAL SAFETY RED. NOZZLE CAPS AND BONNET SHALL ALSO RECEIVE A COAT OF ALERT SERIES 1440 SILVER WHITE AS MANUFACTURED BY FERRO, INC.
- OIL/GREASE:** HYDRANT SHALL BE OILED OR GREASED AS RECOMMENDED BY MANUFACTURER AFTER INSTALLATION.
- RESTRAINT:** ALL INSTALLATIONS SHALL HAVE CLASS A CONCRETE BLOCKING PLACED BEHIND BOTH TEE AND HYDRANT. EN LIEU OF THREADED BRIDLE RODS, APPROVED GRIP RING OR LOCKING FLANGE CONNECTIONS MAY BE USED. BOTH GRIP RINGS AND LOCKING FLANGES SHALL BE U.L. LISTED AND F.M. APPROVED WITH A RATED WORKING PRESSURE OF NOT LESS THAN 350 PSI WITH A MIN. SAFETY FACTOR OF 2:1. LOCKING FLANGE CONNECTIONS SHALL ONLY BE PERMITTED WHERE PROPER PLACEMENT AND GRADE ADJUSTMENT CAN BE PROVIDED.

REVISIONS			APPROVED	STD. NO.
NO	DATE	DESCRIPTION		5.2
			DATE	REVISION
			03-29-06	

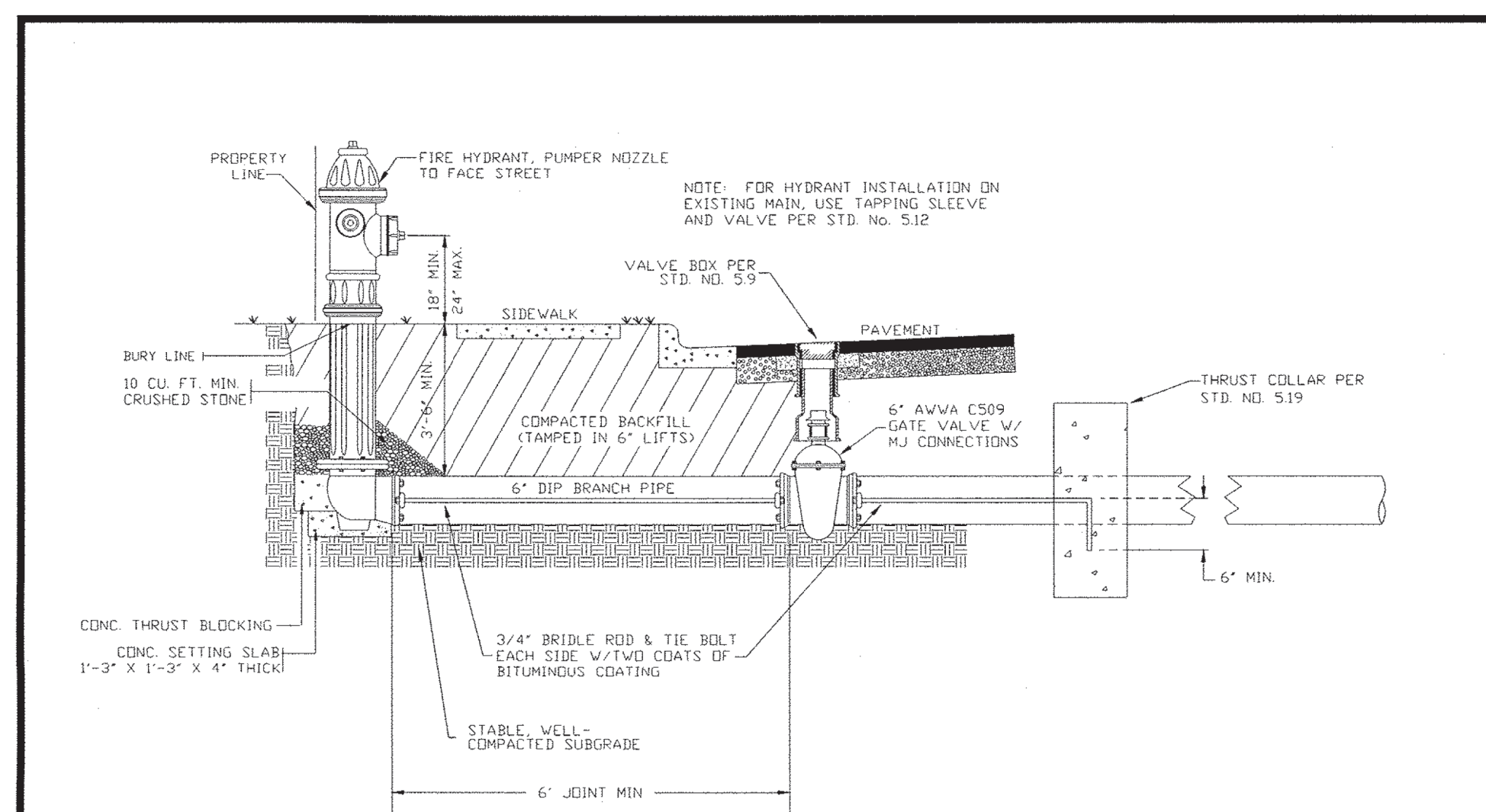
HYDRANT CONSTRUCTION NOTES (SHEET 2 OF 2)

CITY OF ROCKY MOUNT
DEPT. OF ENGINEERING

TRENCH DETAIL



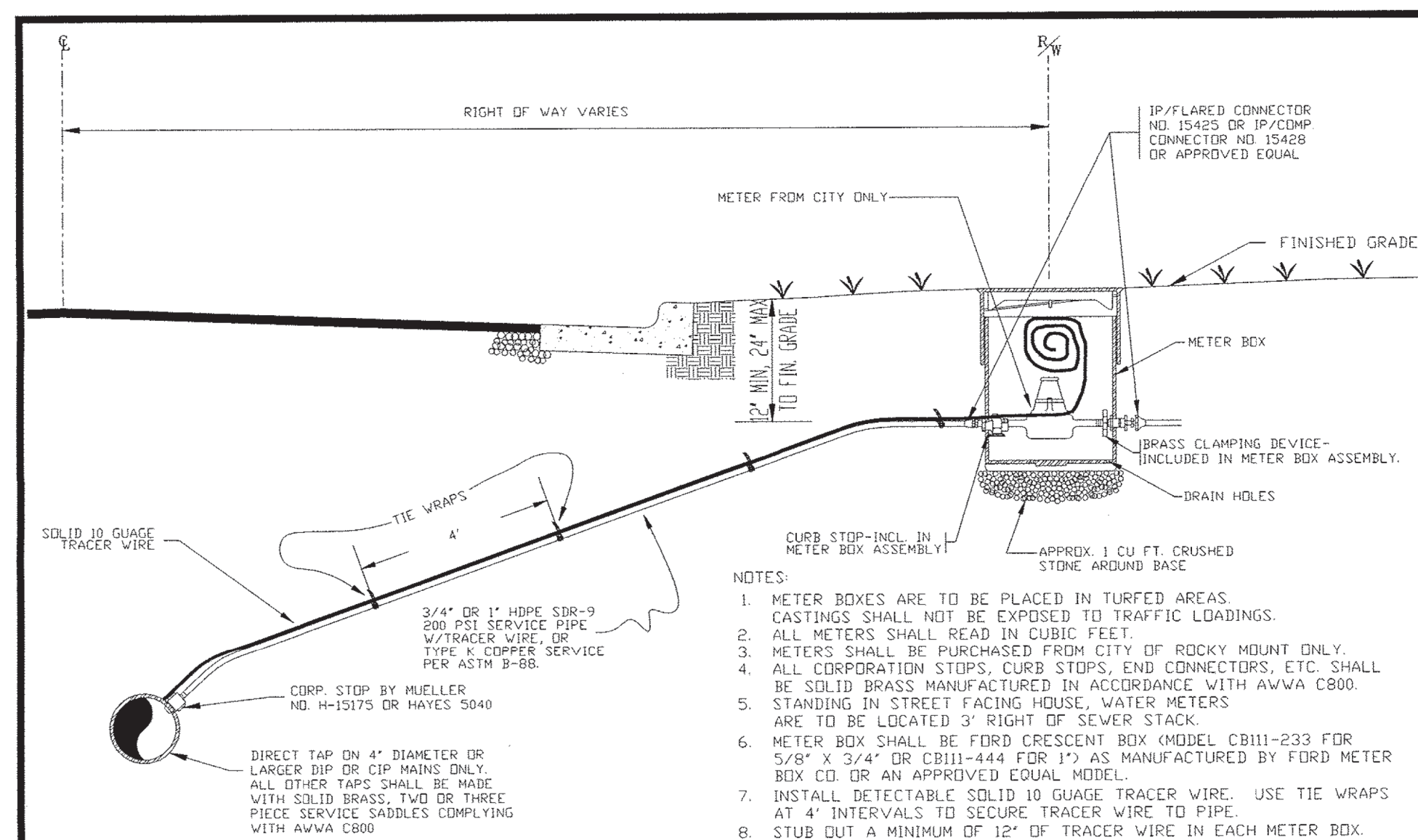
PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



REVISIONS			APPROVED	STD. NO.
NO	DATE	DESCRIPTION		5.3a
			DATE	REVISION
			06-25-09	

PERMANENT LINE TERMINUS

CITY OF ROCKY MOUNT
DEPT. OF ENGINEERING

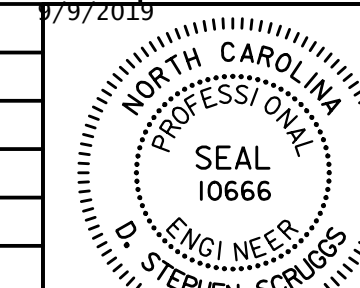


REVISIONS			APPROVED	STD. NO.
NO	DATE	DESCRIPTION		5.5
			DATE	REVISION
			6-30-09	

5/8" x 3/4" & 1" WATER SERVICE

CITY OF ROCKY MOUNT
DEPT. OF ENGINEERING

PROJECT REFERENCE NO.	SHEET NO.
B-5980	UC-3B
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION	
Stephen Scruggs	
PHONE: (919) 707-6690	
FAX: (919) 250-4151	



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UTILITY CONSTRUCTION

MATERIAL:
CAST GRAY IRON
ASTM A48-84, CLASS 25

FINISH:
E-COAT, POWERCRON 698
4-1.5 MIL THICK, BLACK

NOTES:
1. LID TO BE MANUFACTURED BY FORD METER BOX COMPANY OR APPROVED EQUAL.

3/4" & 1" WATER METER BOX COVER

REVISIONS	APPROVED	STD. NO.
NO DATE DESCRIPTION	-	5.5A
	DATE	REVISION
	5-01-07	-

CITY OF ROCKY MOUNT
DEPT. OF ENGINEERING

NOTE:
1. VALVE BOX SHALL BE TELESCOPIC WITH SCREW TYPE ADJUSTMENT.
2. VALVE BOX SHALL BE CAST FROM ASTM A-48, CLASS 30 IRON & SHALL BE FULLY BITUMINOUS COATED FOR DIRECT BURIAL.
3. VALVE BOX SHALL BE VBX-TE-3B AS MANUFACTURED BY DEWEY BROTHERS, INC. OF GOLDSBORO, NC OR APPROVED EQUAL.
4. FOR INSTALLATION DETAILS, SEE STD. NO. 5.10.

STANDARD VALVE BOX

REVISIONS	APPROVED	STD. NO.
NO DATE DESCRIPTION	-	5.9
	DATE	REVISION
	04-07-00	-

CITY OF ROCKY MOUNT
DEPT. OF ENGINEERING

NOTE: EXTENSION OF VALVE BOX USING STRAIGHT PIPE SHALL ONLY BE PERMITTED TO A DEPTH OF SIX (6') FEET. FOR DEEPER VALVE INSTALLATIONS, STEM AND OPERATING NUT EXTENSIONS MUST ALSO BE PROVIDED.

CLASS A CONCRETE 6' MIN. THICKNESS

OUTSIDE PAVEMENT INSTALLATION

IN PAVEMENT INSTALLATION

SHOULDER SLAB

VALVE BOX NOT TO CONTACT MAIN NOR VALVE

TAMPED BACKFILL

STABLE WELL COMPACTED SUBGRADE

VALVE BOX INSTALLATION DETAILS

REVISIONS	APPROVED	STD. NO.
NO DATE DESCRIPTION	-	5.10
	DATE	REVISION
	04-07-00	-

CITY OF ROCKY MOUNT
DEPT. OF ENGINEERING

ROD REQUIREMENTS

SIZE OF 45 DEG. BEND	STATIC THRUST IN POUNDS	NUMBER OF RODS REQUIRED
6'	4,328	2
8'	7,694	2
12'	17,312	2
16'	30,779	4
20'	48,091	6
24'	69,252	8

1. ONCE INSTALLED AND TIGHT, THE STEEL RODS AND BOLTS SHALL BE COATED WITH 2 COATS OF BITUMINOUS BASE PAINT.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT BENDS.

STANDARD VERTICAL BEND

REVISIONS	APPROVED	STD. NO.
NO DATE DESCRIPTION	-	5.11
	DATE	REVISION
	04-07-00	-

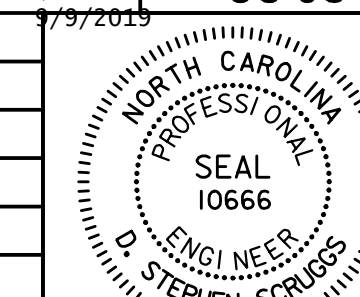
CITY OF ROCKY MOUNT
DEPT. OF ENGINEERING

Prepared In the Office of:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
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919-854-6200 919-854-6259 (fax)
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PROJECT REFERENCE NO.	SHEET NO.
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REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
D. Stephen Scruggs UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	



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UTILITY CONSTRUCTION

3/4" ALL-THREAD STEEL ROD (CUT TO LENGTH)
1' DIP NIPPLE
GATE VALVE
TEE
THRUST BLOCKING PER STD. NO. 5.19
MECH. JOINT CONNECTIONS

GENERAL NOTES

- ONCE INSTALLED AND TIGHT, THE STEEL RODS AND BOLTS SHALL BE COATED WITH 2 COATS OF BITUMINOUS BASE PAINT.
- CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL FITTINGS.
- 2500 PSI CONCRETE CLASS B REQUIRED.

ROD REQUIREMENTS	
BRANCH SIZE	NO. OF RODS
4"	2 EA.
6"	2 EA.
8"	4 EA.
12"	4 EA.
16"	6 EA.
20"	6 EA.
24"	6 EA.

REVISIONS	CITY OF ROCKY MOUNT DEPT. OF ENGINEERING	APPROVED	STD. NO.
NO. DATE DESCRIPTION		DATE	REVISION
		03-05-03	5.13

UNDERGROUND CLAMPS AS MANUFACTURED BY STELLAR CORP. OR EQUAL SIZED APPROPRIATE TO VALVE. CLAMPS BOLTED TO STEEL RODS.
PVC PIPE
3/4" THREADED STEEL RODS
USE 2500 PSI CONCRETE IN FOOTINGS

1. RODS SHOULD EXTEND TO TOP OF PIPE CROWN.
2. X x Y MUST EQUAL THE SQUARE FOOTAGE OF THE AREA AS SHOWN IN THE TABLE BELOW.
3. COAT EXPOSED STEEL RODS AND CLAMPS WITH BITUMINOUS BASE PAINT.

BEARING SURFACE AREA FOR VALVE FOOTINGS			
VALVE SIZE	PSF	4'	6'
BRICKSAND, POOR SOIL	1,000	3	12
GRAVEL, COURSE SAND	1,600	2	8
SOFT CLAY	2,000	2	6
FABRY RBY CLAY, CLEAN RBY SAND	4,000	1	3
DRY CLAY, COMPACT SAND	8,000	1	2
POOR ROCK	10,000	1	2

NOTE: THIS STANDARD IS TO BE USED FOR PVC SEWER FORCE MAINS OR PRIVATE WATER SERVICE ONLY.

REVISIONS	CITY OF ROCKY MOUNT DEPT. OF ENGINEERING	APPROVED	STD. NO.
NO. DATE DESCRIPTION		DATE	REVISION
		04-07-00	5.14

NOTES:

- SEE CONSTRUCTION SPECIFICATIONS.
- SEE STANDARD DETAIL FOR THRUST BLOCK LOCATIONS.
- CONCRETE SHALL BE 2500 P.S.I. REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
- TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK(S) INSTALLATION SHALL BE MINIMUM WIDTH.
- BACKFILL TAMPED IN 6" LAYERS.

THRUST COLLAR
UNDISTURBED SOIL
"Y" BAR
"X" BAR
O.D. PIPE
3' MIN. CLEAR.

REINFORCING REQUIREMENTS

REINFORCING BAR SCHEDULE						
I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WGT.	"Y" BAR LENGTH	"Y" BAR WGT.	NO. REQD.
6"-36"	#5	2'-2"+O.D. PIPE	1.043 LBS./FT	1'-1"	1.1 LBS. EA.	X-24,Y-12
48"	#6	3'-0"+O.D. PIPE	1.502 LBS./FT	1'-3"	1.9 LBS. EA.	X-24,Y-12

REINFORCING BAR SCHEDULE					
I.D. PIPE	"A"	"B"	"C" - 6'-16', 20'-24', 30'-36', 48'		
6"-36"	1'-4"	1'-7"	2'	3'	4'
48"	1'-8"	1'-9"			6'

REVISIONS	CITY OF ROCKY MOUNT DEPT. OF ENGINEERING	APPROVED	STD. NO.
NO. DATE DESCRIPTION		DATE	REVISION
		07-13-01	5.19

GRADE 3/6" MIN. ABOVE TOP OF PIPE
SECTION
PLAN
TRENCH WIDTH
A
B
C

2500 P.S.I. CONCRETE CLASS B REQUIRED

TEE			
TEE	A	B	C
6"x6"x6"	2'0"	1'0"	1'0"
8"x8"x6"	2'0"	1'0"	1'0"
8"x8"x8"	2'4"	1'0"	1'6"
12"x12"x6"	2'4"	1'0"	1'6"
12"x12"x8"	2'6"	1'0"	1'6"
12"x12"x12"	2'8"	1'6"	1'10"
16"x16"x6"	2'6"	1'6"	1'10"
16"x16"x8"	2'6"	1'6"	1'10"
16"x16"x12"	2'10"	1'6"	2'0"
16"x16"x16"	2'10"	1'6"	2'0"
20"x20"x6"	2'6"	1'8"	2'2"
20"x20"x8"	2'6"	1'8"	2'2"
20"x20"x12"	2'10"	1'8"	2'2"
20"x20"x16"	2'10"	1'10"	2'2"

TEE			
TEE	A	B	C
20"x20"x20"	3'2"	2'0"	3'0"
24"x24"x6"	2'6"	1'8"	2'6"
24"x24"x8"	2'6"	1'8"	2'6"
24"x24"x12"	2'10"	1'8"	2'6"
24"x24"x16"	2'10"	2'0"	3'0"
24"x24"x20"	3'2"	2'0"	3'0"
24"x24"x24"	3'6"	2'0"	3'6"
30"x30"x6"	2'6"	1'8"	3'4"
30"x30"x8"	2'6"	1'8"	3'4"
30"x30"x12"	2'10"	1'8"	3'4"
30"x30"x16"	3'6"	1'10"	3'8"
30"x30"x20"	3'6"	2'0"	3'8"
30"x30"x24"	3'10"	2'6"	4'0"
30"x30"x30"	4'2"	3'0"	4'4"

REVISIONS	CITY OF ROCKY MOUNT DEPT. OF ENGINEERING	APPROVED	STD. NO.
NO. DATE DESCRIPTION		DATE	REVISION
		07-13-01	5.24

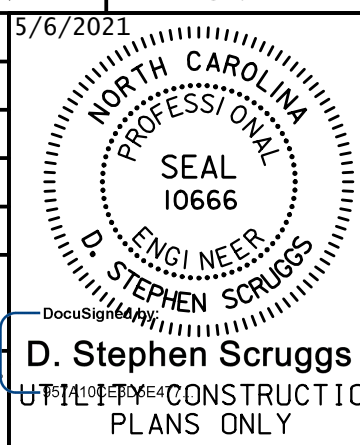
DATE: 9/9/2019
TIME: 9:29:53 AM
DGN: B5980_uc_dsn03.dgn

Prepared In the Office of:



AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

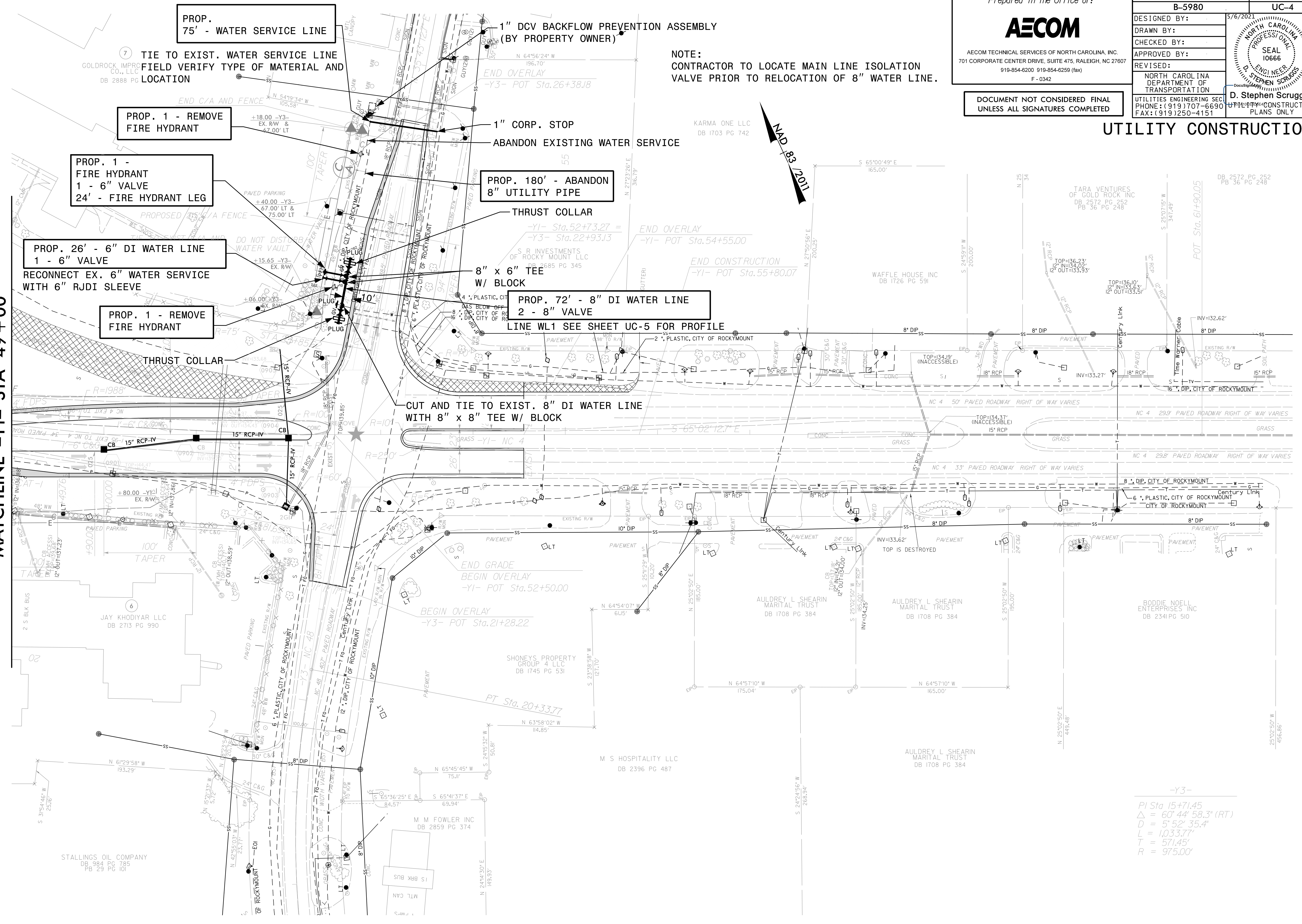
PROJECT REFERENCE NO.	SHEET NO.
B-5980	UC-4
DESIGNED BY:	5/6/2021
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION	
PHONE: (919) 707-6690	
FAX: (919) 250-4151	



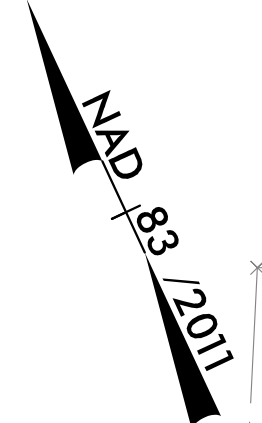
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UTILITY CONSTRUCTION

MATCHLINE -Y1- STA 49+00



NOTE:
CONTRACTOR TO LOCATE MAIN LINE ISOLATION
VALVE PRIOR TO RELOCATION OF 8" WATER LINE.



-Y3-

PI Sta 15+71.45
 $\Delta = 60^\circ 44' 58.3" (RT)$
 $D = 5^\circ 52' 35.4"$
 $L = 1,033.77'$
 $T = 571.45'$
 $R = 975.00'$

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AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F - 0342

PROJECT REFERENCE NO. B-5980	SHEET NO. UC-5
DESIGNED BY:	9/9/2019
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

