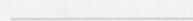
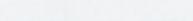
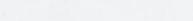
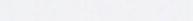




LEGEND	
EXISTING	PROPOSED
	WATER VALVE
	FIRE HYDRANT ASSEMBLY
	METER BOX WITH SERVICE LINE
	EDGE OF PAVEMENT
	RIGHT-OF-WAY
	WATER LINE
	
	
	
	

- GENERAL CONSTRUCTION NOTES**
- CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN THE ORIGINAL SITE.
  - LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. AT LEAST THREE DAYS PRIOR TO CONSTRUCTION. CONTRACTOR MUST NOTIFY EXISTING UTILITY OWNERS. CALL BEFORE YOU DIG - NORTH CAROLINA ONE CALL (1-800-632-4949)
  - CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY REGULATIONS PERTAINING TO CONSTRUCTION OPERATIONS.
  - WATER LINES SHALL HAVE 3'-0" MINIMUM COVER, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
  - WATER AND SEWER LINES SHALL HAVE A MINIMUM 10' HORIZONTAL SEPARATION OR A MINIMUM 18" VERTICAL SEPARATION WITH THE WATER OVER THE SEWER, OR BOTH WATER AND SEWER LINES SHALL BE DUCTILE IRON PIPE 10' EITHER SIDE OF THE CROSSING.
  - WATER AND STORM SEWER LINES SHALL HAVE A MINIMUM 24" VERTICAL SEPARATION.
  - SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  - ALL FENCES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS IN A PROFESSIONAL MANNER AND IN ACCORDANCE WITH STANDARD FENCE CONSTRUCTION PRACTICES AT THE CONTRACTOR'S EXPENSE.
  - CONTRACTOR SHALL FIELD LOCATE ALL BURIED TELEPHONE LINES IN CONFLICT WITH THE PROPOSED WATER LINE. WHERE NECESSARY, EXISTING BURIED TELEPHONE LINES SHALL BE TEMPORARILY RELOCATED DURING CONSTRUCTION OF THE PROPOSED WATER LINE AND RE-LAID AT NO ADDITIONAL COST TO THE OWNER.
  - ALL MATERIALS USED SHALL CONFORM TO MOORE COUNTY STANDARDS



**SOUTH STREET  
2" WATER LINE REPLACEMENT  
VASS, NC**

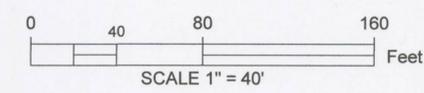
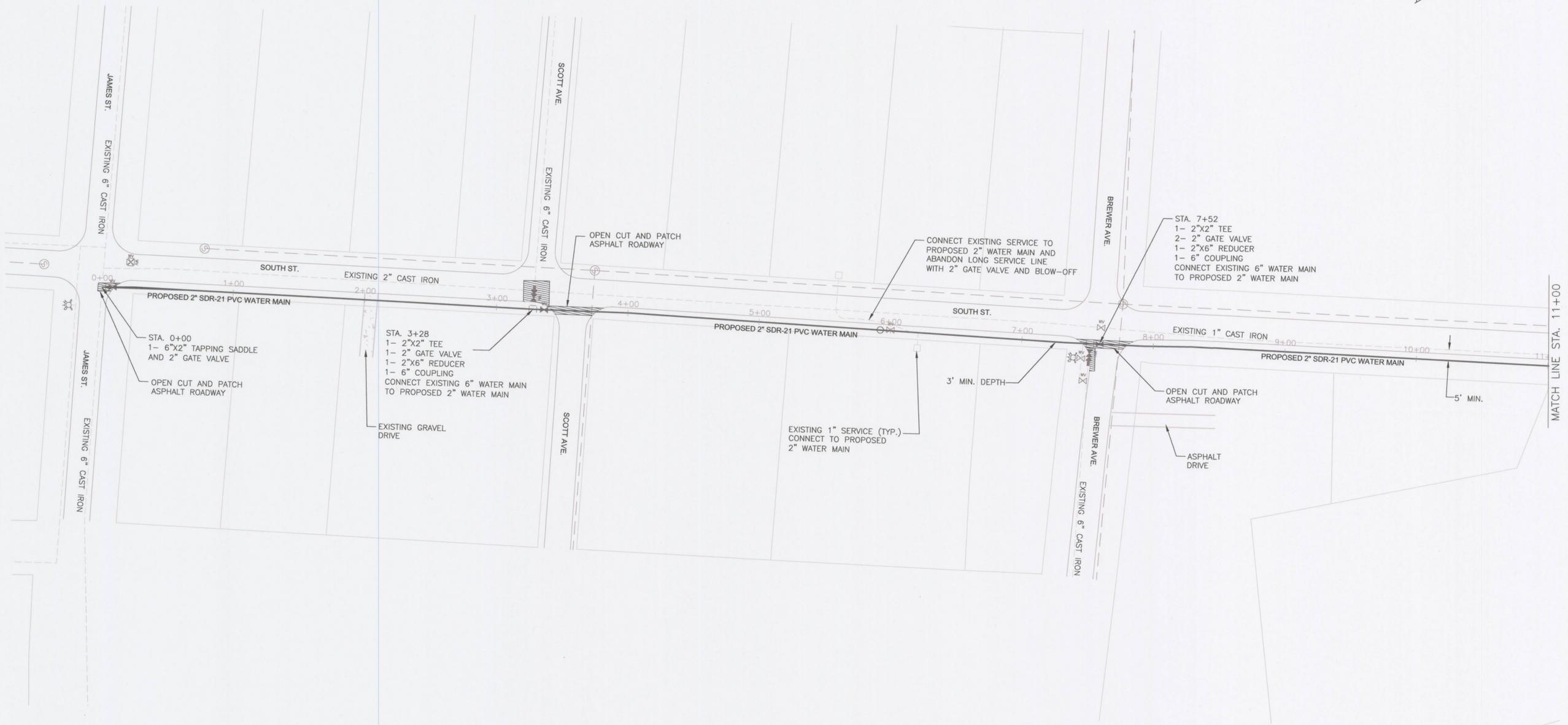
DATE: FEB. 2016  
DESIGNED BY: LM III  
CADD BY: LSD

GENERAL NOTES

NO.	DATE	BY	REVISIONS	
			DESCRIPTION	

SHEET

**G2**



**CALL BEFORE YOU DIG!  
NC ONE CALL CENTER**

**811 or 1-800-632-4949  
CALL THREE DAYS  
BEFORE DIGGING**

**MOORE COUNTY PUBLIC WORKS**  
 www.moorecountync.gov  
 5227 HWY 15-501  
 P.O. BOX 1927  
 CARTHAGE, NC 28327  
 (910) 947-6315

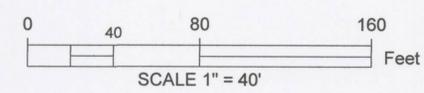
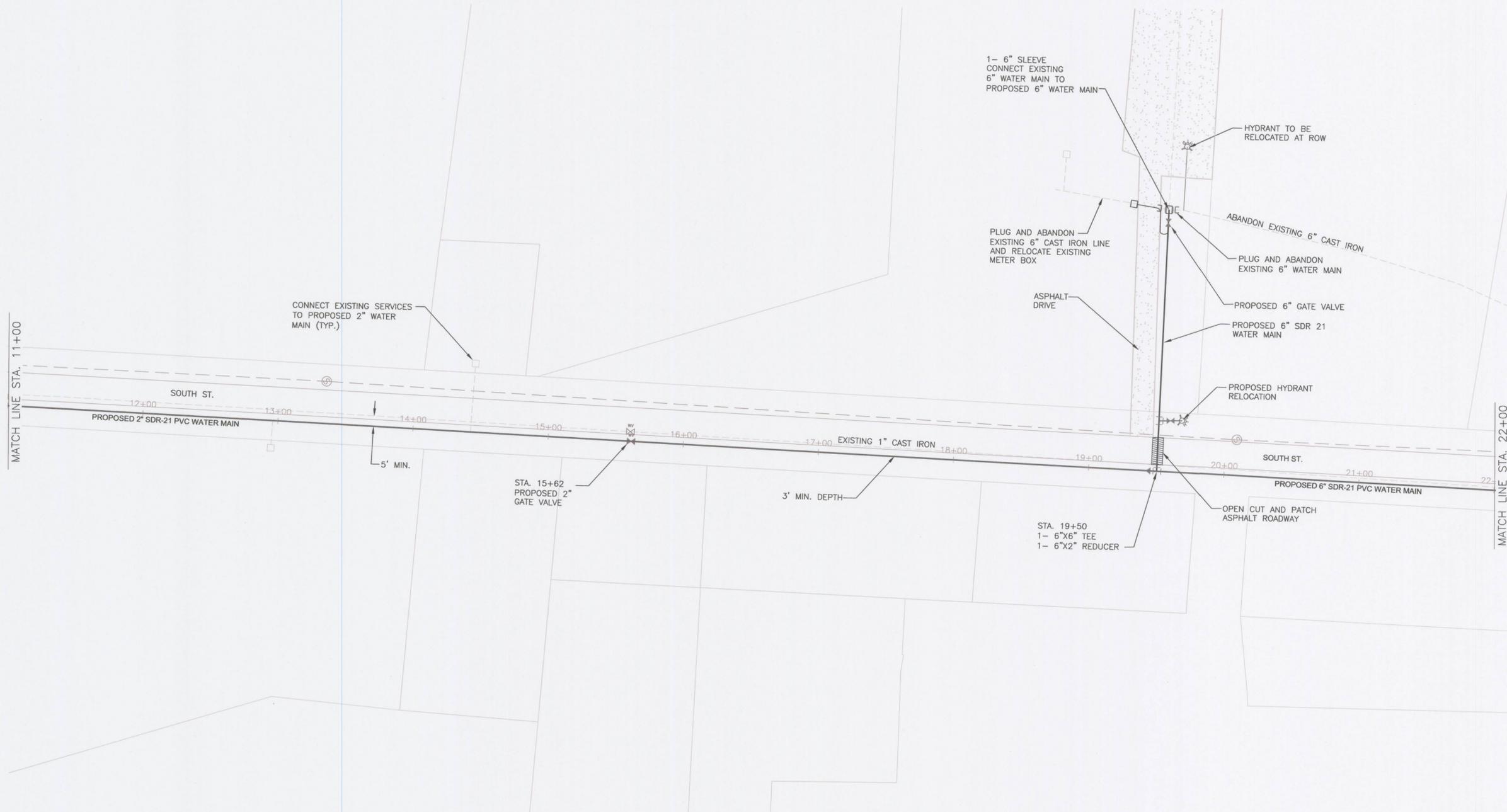


**SOUTH STREET  
2" WATER LINE REPLACEMENT  
VASS, NC**

DATE: FEB., 2016  
 DESIGNED BY: LM III  
 CADD BY: LSD

WATER LINE REPLACEMENT STA. 0+00 TO STA. 11+00	
NO.	REVISIONS
DATE	DESCRIPTION
BY	APPROVED BY (AND CHECK NOTES)
1	

SHEET  
**C1**



**CALL BEFORE YOU DIG!  
NC ONE CALL CENTER**

**811 or 1-800-632-4949  
CALL THREE DAYS  
BEFORE DIGGING**

**MOORE COUNTY PUBLIC WORKS**  
 www.moorecountync.gov  
 5227 HWY 15-501  
 P.O. BOX 1927  
 CARTHAGE, NC 28327  
 (910) 947-6315



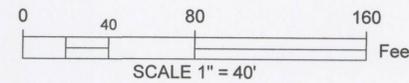
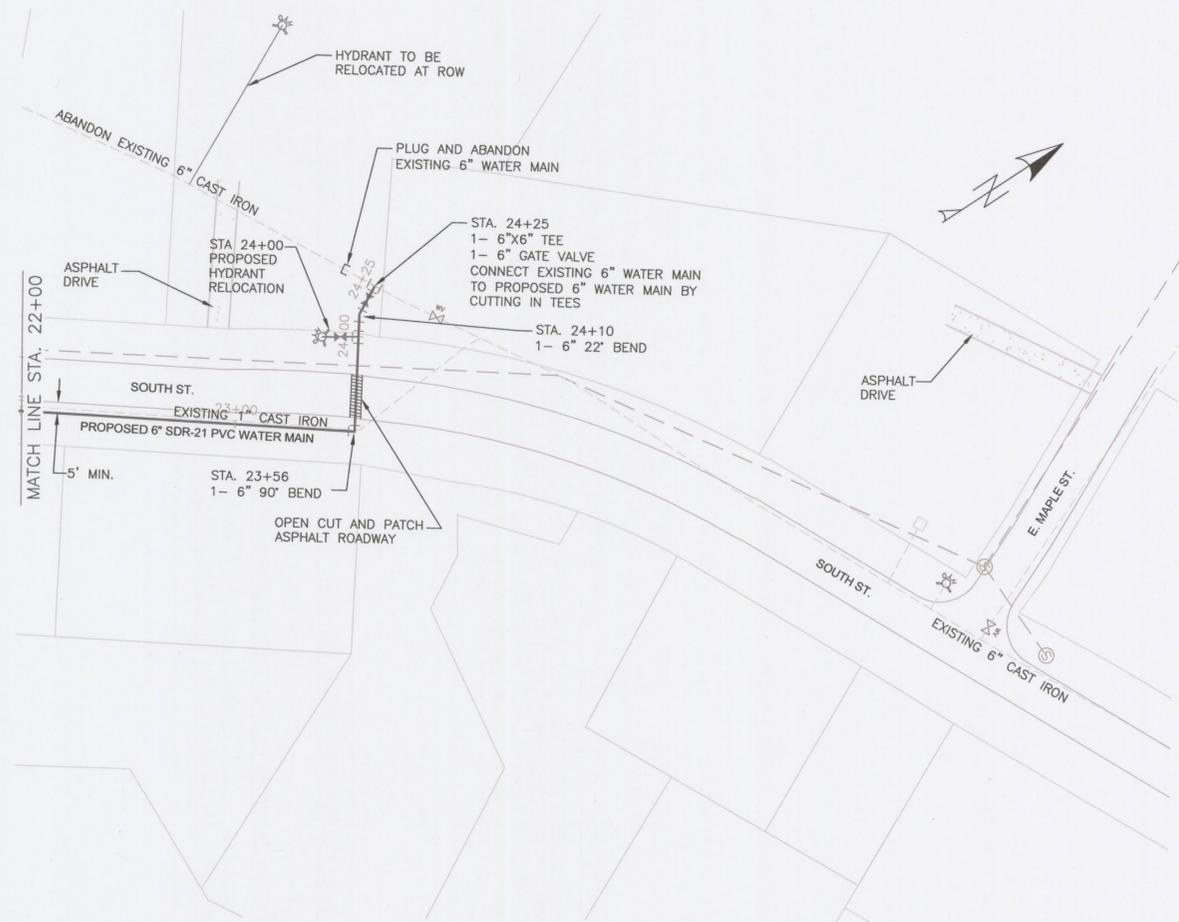
**SOUTH STREET  
2" WATER LINE REPLACEMENT  
VASS, NC**

DATE: FEB., 2016  
 DESIGNED BY: LM III  
 CADD BY: LSD

WATER LINE REPLACEMENT  
 STA. 11+00 TO STA. 22+00

NO.	DATE	BY	DESCRIPTION
1	02/15/16	LM III	ADDED ROAD CUT AND PATCH NOTES

SHEET  
**C2**



**CALL BEFORE YOU DIG!  
NC ONE CALL CENTER**

**811 or 1-800-632-4949  
CALL THREE DAYS  
BEFORE DIGGING**

**MOORE COUNTY PUBLIC WORKS**  
 www.moorecountync.gov  
 5227 HWY 15-501  
 P.O. BOX 1927  
 CARTHAGE, NC 28327  
 (910) 947-6315



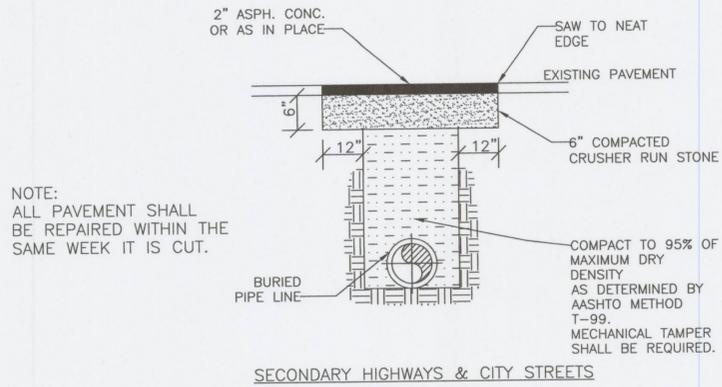
**SOUTH STREET  
2" WATER LINE REPLACEMENT  
VASS, NC**

DATE: FEB., 2016  
 DESIGNED BY: LM III  
 CADD BY: LSD

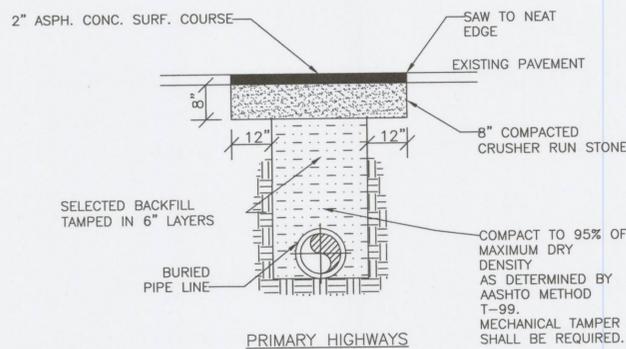
WATER LINE REPLACEMENT  
 STA. 22+00 TO STA. 24+25

REVISIONS		DESCRIPTION
NO.	DATE	BY
1	02/15/16	WMS

STA. 24+00 HYDRANT SHOWN TO BE RELOCATED



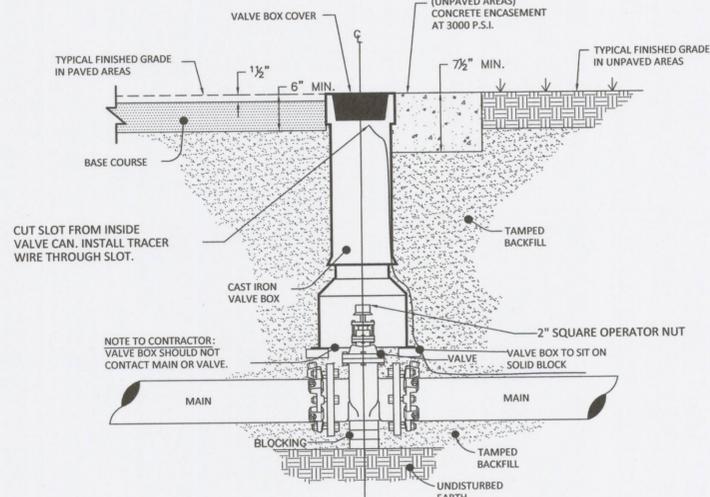
SECONDARY HIGHWAYS & CITY STREETS



PRIMARY HIGHWAYS

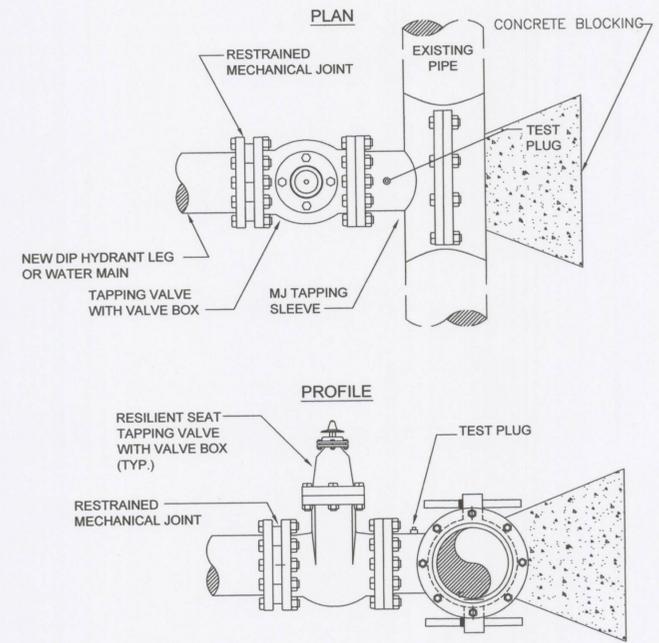
TRANSVERSE AND LONGITUDINAL CUTS

PAVEMENT REPAIRS FOR NCDOT ROAD OPEN CUTS  
NOT TO SCALE



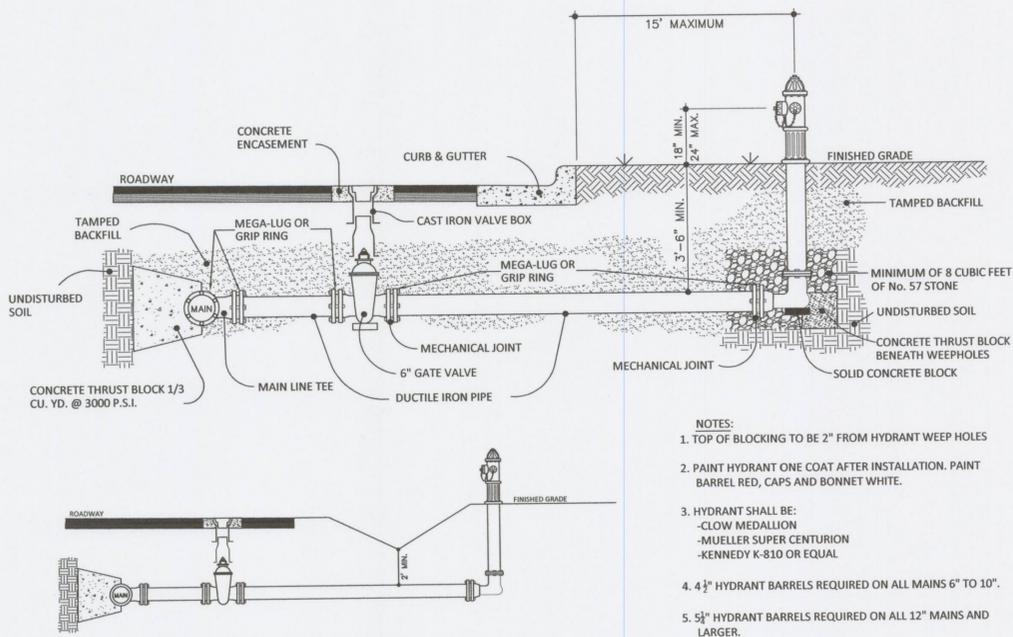
VALVE & VALVE BOX INSTALLATION  
NOT TO SCALE

- NOTES:
1. ONLY MANUFACTURED VALVE BOX EXTENSIONS SHALL BE ALLOWED.
  2. VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 8" (FL) FROM THE SURFACE USING A MANUFACTURER APPROVED EXTENSION KIT.
  3. PRECAST CONCRETE ENCASEMENT IS ALLOWED OUTSIDE OF PAVED AREAS.
  4. CONCRETE PROTECTOR RING MAY BE USED IN LIEU OF ENCASEMENT IN UNPAVED AREAS.
  5. ALL GATE VALVES SHALL BE PLACED ON 4" THICK 8"x12" CONCRETE BLOCKS.



TAPPING SLEEVE & VALVE ASSEMBLY  
NOT TO SCALE

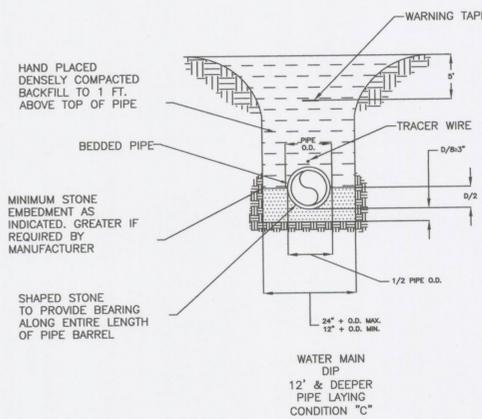
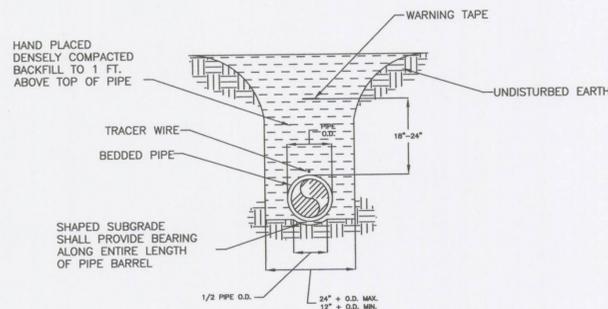
- NOTES:
1. TAPPING SLEEVE SHALL BE FABRICATED OF TYPE 304 S.S. AND PROVIDE A 360° SEAL AROUND EXISTING PIPE WITH FULL CIRCUMFERENTIAL GASKET.



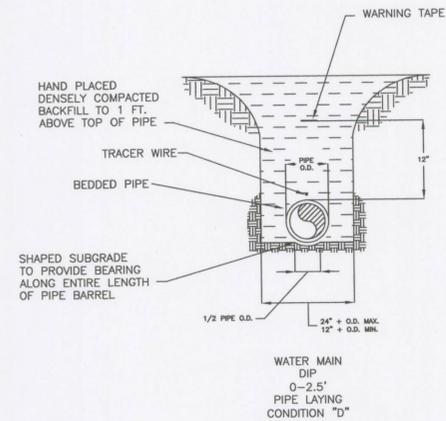
ROADWAY WITHOUT CURB AND GUTTER

FIRE HYDRANT ASSEMBLY  
NOT TO SCALE

- NOTES:
1. TOP OF BLOCKING TO BE 2" FROM HYDRANT WEEP HOLES
  2. PAINT HYDRANT ONE COAT AFTER INSTALLATION. PAINT BARREL RED, CAPS AND BONNET WHITE.
  3. HYDRANT SHALL BE:  
-CLOW MEDALLION  
-MUELLER SUPER CENTURION  
-KENNEDY K-810 OR EQUAL
  4. 4 1/2" HYDRANT BARRELS REQUIRED ON ALL MAINS 6" TO 10".
  5. 5 1/2" HYDRANT BARRELS REQUIRED ON ALL 12" MAINS AND LARGER.



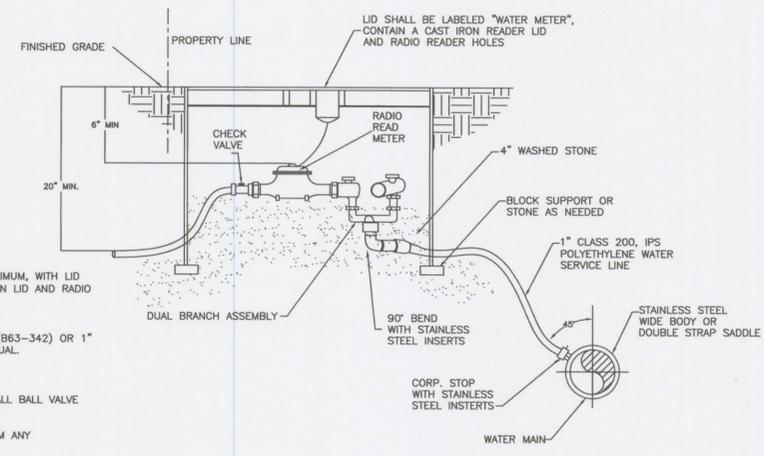
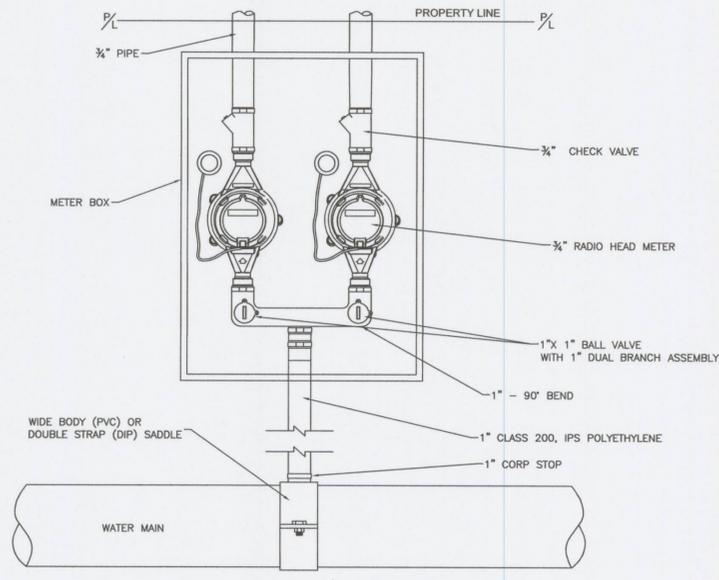
WATER MAIN BEDDING  
NOT TO SCALE



DATE: FEB., 2016  
DESIGNED BY: LM III  
CADD BY: LSD

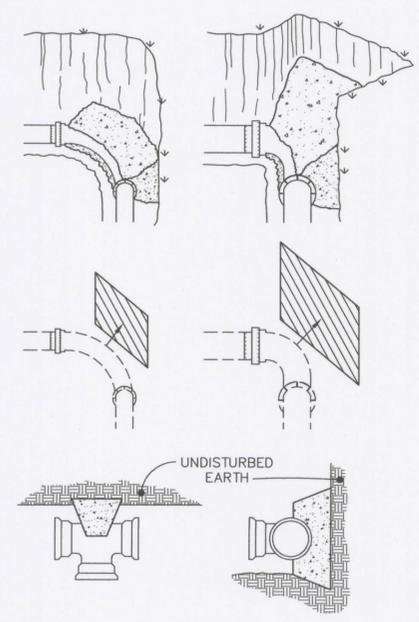
CONSTRUCTION  
DETAILS

NO.	DATE	BY	DESCRIPTION



- NOTES:
- METER TO BE PLACED IN NONE TRAFFIC AREA.
  - PLASTIC METER BOX TO BE 21-3/8"x14-7/8"x12"H MINIMUM, WITH LID TO BE LABELED "WATER METER", CONTAINING A CAST IRON LID AND RADIO READER HOLE.
  - CHECK VALVE TO BE 3/4" FORD HHS 31-323 OR EQUAL.
  - METER TO BE 3/4" BADGER (M-35) EQUAL.
  - VALVE TO BE 1" BALL VALVE BY 3/4" METER NUT, FORD (B63-342) OR 1" BALL VALVE BY 1" METER NUT, FORD (B63-344) OR EQUAL.
  - CORP STOP TO BE 1", FORD 1001-4, OR EQUAL.
  - PLUMBER TO INSTALL 3/4" PIPE FROM CHECK VALVE.
  - MCPW TO INSTALL 3/4" CHECK VALVE AND 3/4" METER.
  - MCPW OR CONTRACTOR, AT NEW INSTALLATIONS, TO INSTALL BALL VALVE WITH METER NUT, 1" PIPE, 1" CORP STOP AND SADDLE.
  - STAINLESS STEEL INSERTS AT CORP STOP & BEND.
  - METER BOX SHALL HAVE AT LEAST A 3' ALLOWANCE FROM ANY OBSTRUCTIONS.

WATER METER SERVICE  
NOT TO SCALE



MINIMUM CONCRETE BLOCKING (C.Y.) *					
NOMINAL PIPE DIAMETER INCHES	TEES & DEAD ENDS	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	0.1	0.1	0.1	0.1	0.1
6	0.2	0.2	0.1	0.1	0.1
8	0.2	0.3	0.2	0.1	0.1
10	0.3	0.5	0.3	0.2	0.2
12	0.4	0.6	0.5	0.3	0.3
14	0.7	0.9	0.6	0.5	0.5
16	0.7	0.9	0.6	0.5	0.5
18	0.9	1.2	0.7	0.6	0.6
20	1.1	1.6	1.1	0.7	0.7
24	1.7	2.3	1.6	0.9	0.9

- NOTES:
- ALL FITTINGS AND ACCESSORIES SHALL BE WRAPPED WITH 6 MIL POLYETHYLENE PRIOR TO POURING CONCRETE.
  - NO CONCRETE SHALL COVER ANY BOLTS OR NUTS.
  - POURED CONCRETE SHOULD BE ON THE DRY SIDE.
  - CONCRETE SHALL BE 3000 P.S.I. MIN.
  - ALL FITTINGS SHALL HAVE MEGA-LUGS OR GRIP RINGS AND APPROPRIATE CONCRETE BLOCKING; UNLESS APPROVED OTHER WISE.

THRUST BLOCKING DETAIL  
NOT TO SCALE

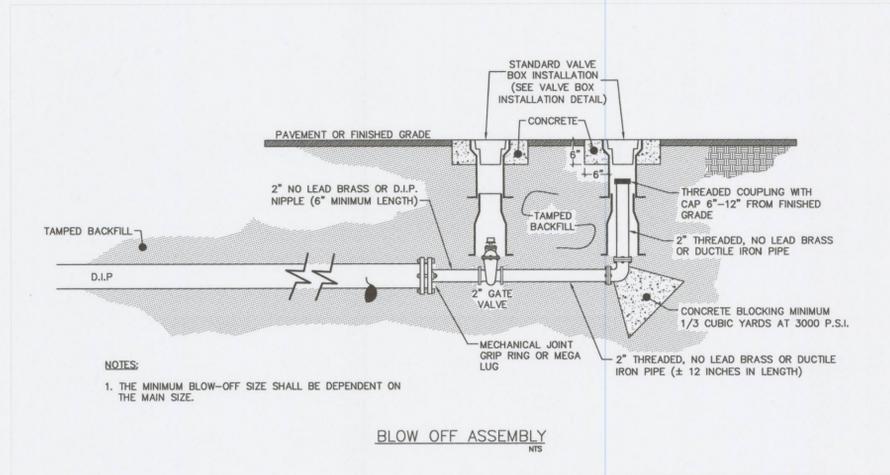
**MOORE COUNTY PUBLIC WORKS**  
www.moorecountync.gov  
5227 HWY 15-501  
P.O. BOX 1927  
CARTHAGE, NC 28327  
(910) 947-6315



**SOUTH STREET  
2" WATER LINE REPLACEMENT  
VASS, NC**

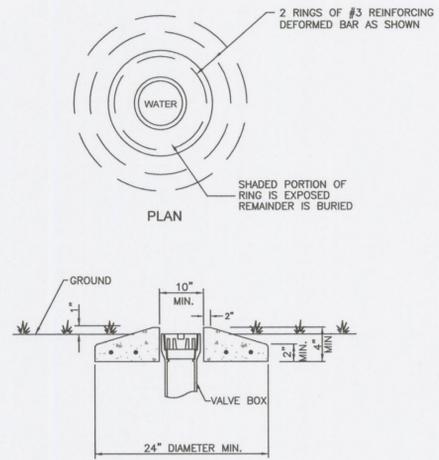
DATE: FEB., 2016  
DESIGNED BY: LM III  
CADD BY: LSD

CONSTRUCTION DETAILS		REVISIONS	
NO.	DATE	BY	DESCRIPTION



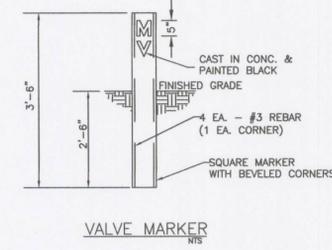
**BLOW OFF ASSEMBLY**  
N.T.S.

- NOTES:
1. THE MINIMUM BLOW-OFF SIZE SHALL BE DEPENDENT ON THE MAIN SIZE.



**CONCRETE PROTECTOR RING**  
N.T.S.

- NOTES:
1. CONCRETE PROTECTOR RING SHALL BE 3000 P.S.I. PRECAST REINFORCED CONCRETE.



- NOTES:
1. VALVE MARKERS SHALL BE PLACED AT R/W.
  2. LETTERS SHALL FACE TOWARDS VALVE.
  3. MARKER SHALL HAVE BRASS OR BRONZE EMBED ON TOP OR SIDE.
  4. CONTRACTOR SHALL STAMP DISTANCE TO CENTER OF VALVE INTO EMBED.
  5. MAIN LINE VALVES SHALL HAVE MARKER WITH "MV" CASTED IN IT.
  6. BLOW-OFF ASSEMBLY SHALL INCLUDE MARKER W/ "BO" CASTED IN IT.

**MOORE COUNTY PUBLIC WORKS**  
www.moorecountync.gov  
5227 HWY 15-501  
P.O. BOX 1927  
CARTHAGE, NC 28327  
(910) 947-6315



**SOUTH STREET  
2" WATER LINE REPLACEMENT**  
VASS, NC

DATE: FEB., 2016  
DESIGNED BY: LM III  
CADD BY: LSD

CONSTRUCTION  
DETAILS

REVISIONS	
NO.	DESCRIPTION

SHEET  
**C6**