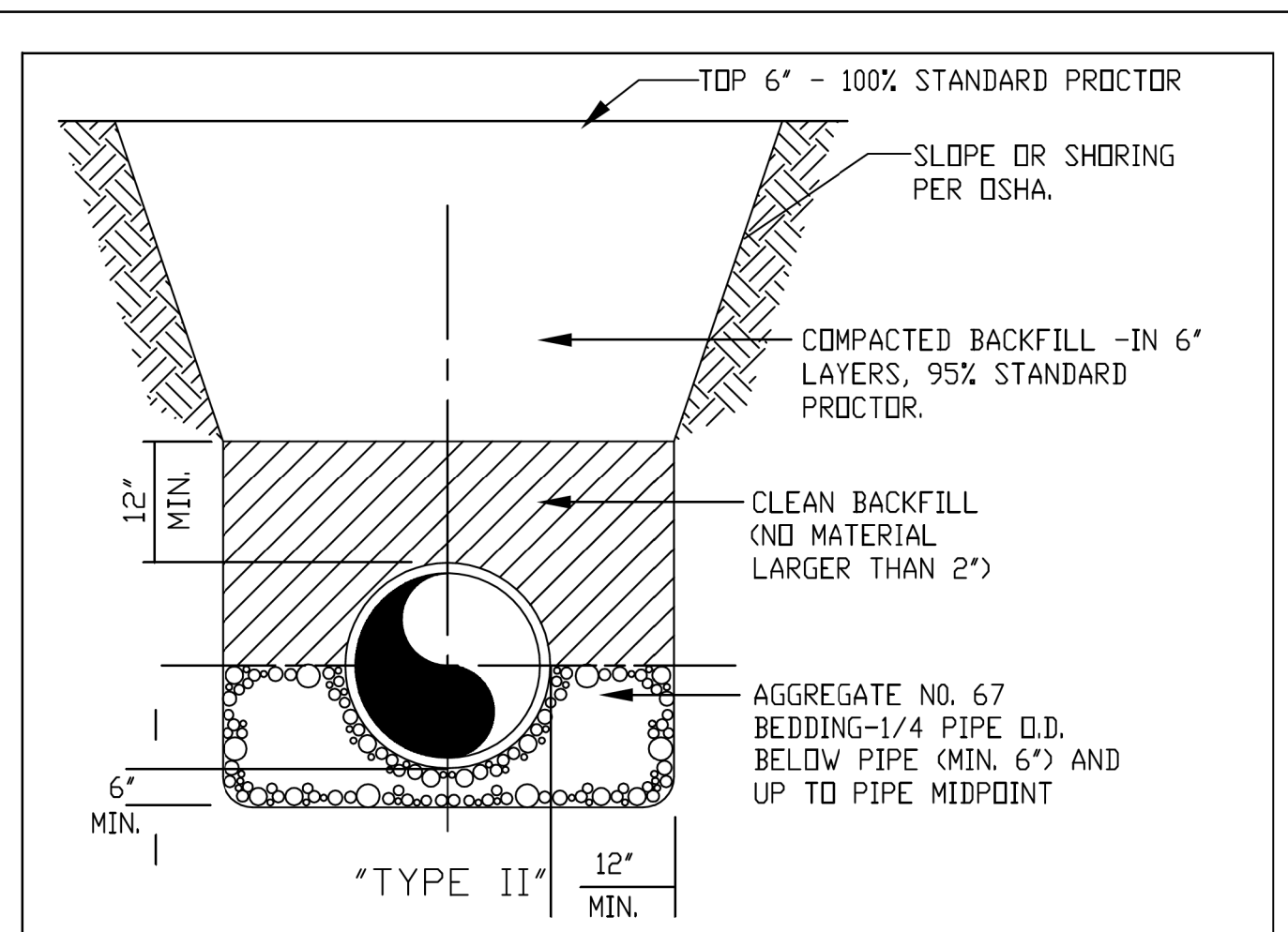


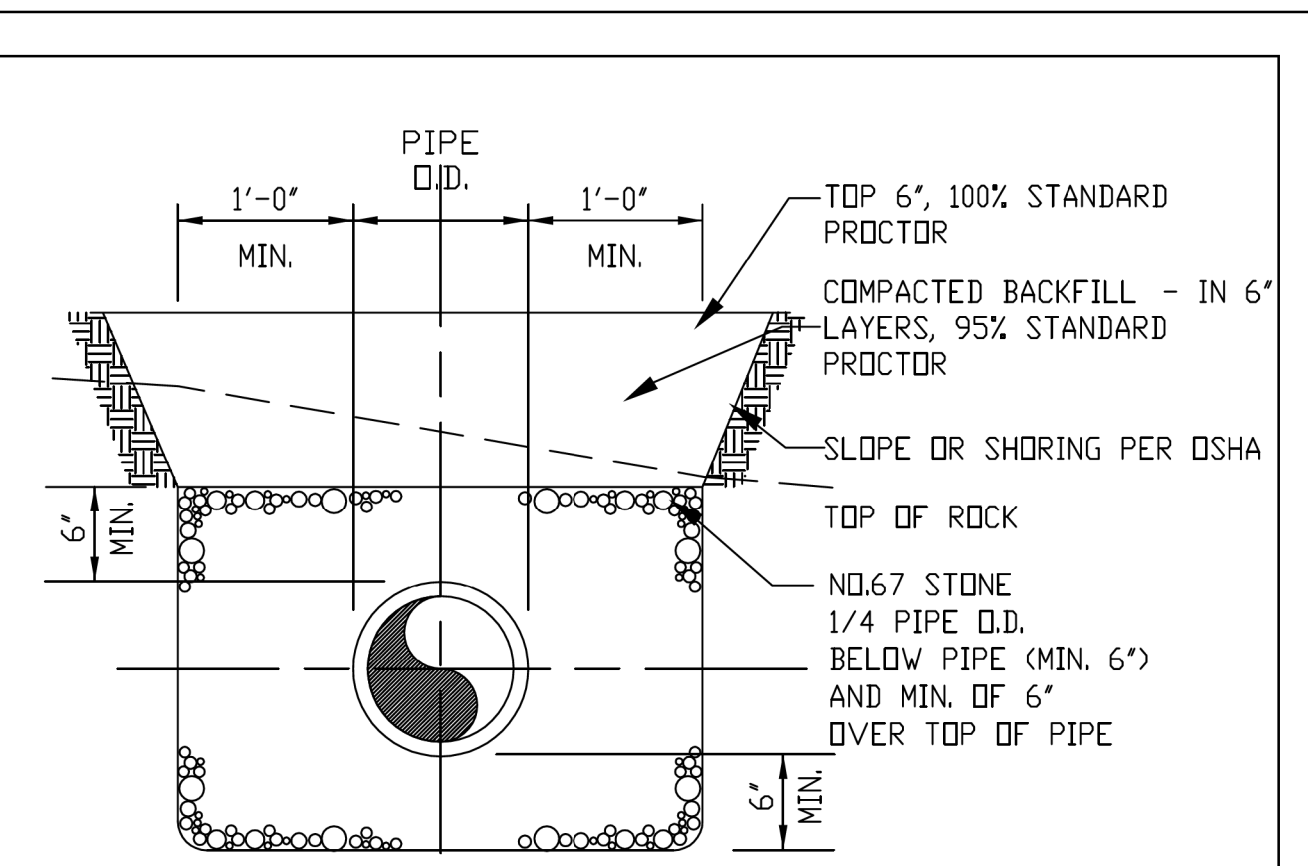
- NOTES:**
- FOR USE WITH ALL DIP, RCP AND VCP UNLESS CONDITIONS OF POOR OR SATURATED SOIL OR ROCK ARE PRESENT.
 - HAND EXCAVATE TO CONFORM TO PIPE BARREL.
 - EXCAVATE AT PIPE BELLS SO BELL DOES NOT SUPPORT PIPE.
 - TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. SUPPORT OR SHORE WHEN TRENCH IS MORE THAN 5' DEEP AND 8' LONG. BEGIN SIDE SLOPE, IF USED, APPROX. 18" ABOVE TOP OF PIPE.
 - BACKFILL OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER THE PIPE IS LAID. COMPACTION REQUIREMENTS SHALL BE ATTAINED BY THE USE OF MECHANICAL TAMPS ONLY. EACH AND EVERY LAYER OF BACKFILL SHALL BE PLACED LOOSE IN 6" LAYERS AND THOROUGHLY COMPACTED INTO PLACE.
 - UNDER NO CIRCUMSTANCES SHALL WATER BE PERMITTED TO RISE IN UNBACKFILLED TRENCHES AFTER THE PIPE HAS BEEN PLACED.
 - ALL MATERIAL SHALL HAVE AN IN PLACE DENSITY OF 100% TO A DEPTH 6" BELOW THE FINISHED GRADE OF BACKFILL MATERIAL, AND 95% AT GREATER THAN 6" BELOW GRADE.

CITY OF SALISBURY, N.C.	STANDARD DETAIL	DATE: JANUARY 1, 1991
PIPELINE INSTALLATION		NOT TO SCALE
TYPE 1 BEDDING		STANDARD P-1



- NOTES:**
- FOR USE WITH ALL PVC WATER PIPE, UNLESS CONDITIONS OF POOR OR SATURATED SOIL OR ROCK ARE PRESENT.
 - TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. SUPPORT OR SHORE WHEN TRENCH IS MORE THAN 5' DEEP AND 8' LONG. BEGIN SIDE SLOPE, IF USED, APPROX. 18" ABOVE TOP OF PIPE.
 - BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER THE PIPE IS LAID. COMPACTION REQUIREMENTS SHALL BE ATTAINED BY THE USE OF MECHANICAL TAMPS ONLY. EACH AND EVERY LAYER OF BACKFILL SHALL BE PLACED LOOSE IN 6" LAYERS AND THOROUGHLY COMPACTED INTO PLACE.
 - UNDER NO CIRCUMSTANCES SHALL WATER BE PERMITTED TO RISE IN UNBACKFILLED TRENCHES AFTER THE PIPE HAS BEEN PLACED.
 - ALL MATERIAL SHALL HAVE AN IN PLACE DENSITY OF 100% TO A DEPTH 6" BELOW THE FINISHED GRADE OF THE BACKFILL MATERIAL, AND 95% AT GREATER THAN 6" BELOW GRADE.

CITY OF SALISBURY, N.C.	STANDARD DETAIL	DATE: JANUARY 1, 1991
PIPELINE INSTALLATION		NOT TO SCALE
TYPE II BEDDING		STANDARD P-2



- NOTES:**
- FOR USE WITH ALL PVC GRAVITY SEWER AND SEWER FORCE MAIN PIPE AND WHEN CONDITIONS OF POOR OR SATURATED SOIL OR ROCK ARE PRESENT, REGARDLESS OF PIPE MATERIAL.
 - TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. SUPPORT OR SHORE WHEN TRENCH IS MORE THAN 5' DEEP AND 8' LONG. BEGIN SIDE SLOPE, IF USED, APPROX. 18" ABOVE TOP OF PIPE.
 - BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER THE PIPE IS LAID. COMPACTION REQUIREMENTS SHALL BE ATTAINED BY THE USE OF MECHANICAL TAMPS ONLY. EACH AND EVERY LAYER OF BACKFILL SHALL BE PLACED LOOSE IN 6" LAYERS AND THOROUGHLY COMPACTED INTO PLACE.
 - UNDER NO CIRCUMSTANCES SHALL WATER BE PERMITTED TO RISE IN UNBACKFILLED TRENCHES AFTER THE PIPE HAS BEEN PLACED.
 - ALL MATERIAL SHALL HAVE AN IN PLACE DENSITY OF 100% TO A DEPTH 6" BELOW THE FINISHED GRADE OF THE BACKFILL MATERIAL, AND 95% AT GREATER THAN 6" BELOW GRADE.

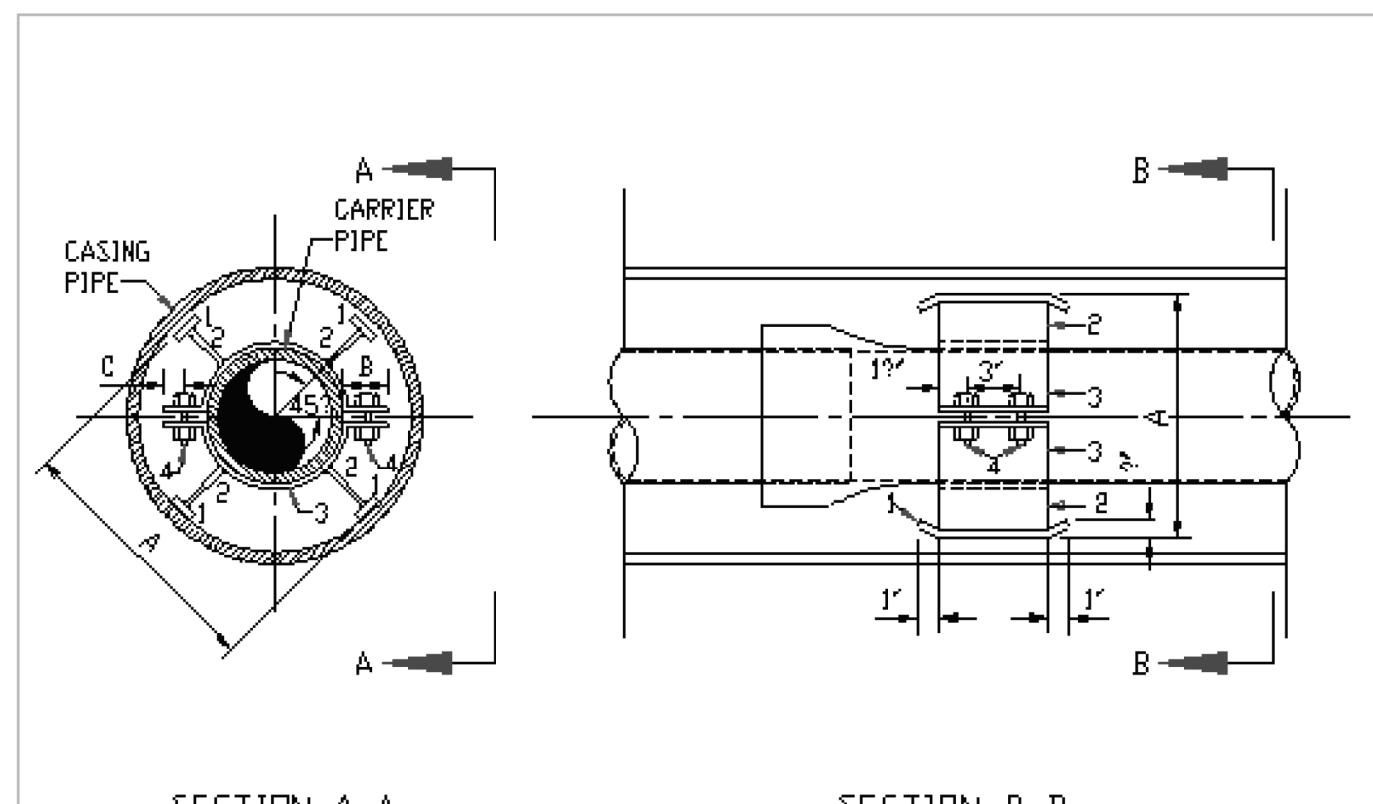
CITY OF SALISBURY, N.C.	STANDARD DETAIL	DATE: JANUARY 1, 1991
PIPELINE INSTALLATION		NOT TO SCALE
TYPE III BEDDING		STANDARD P-3

PROJECT REFERENCE NO.	SHEET NO.
U-5738	UC-3B
DESIGNED BY: WAP	
DRAWN BY: WAP	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

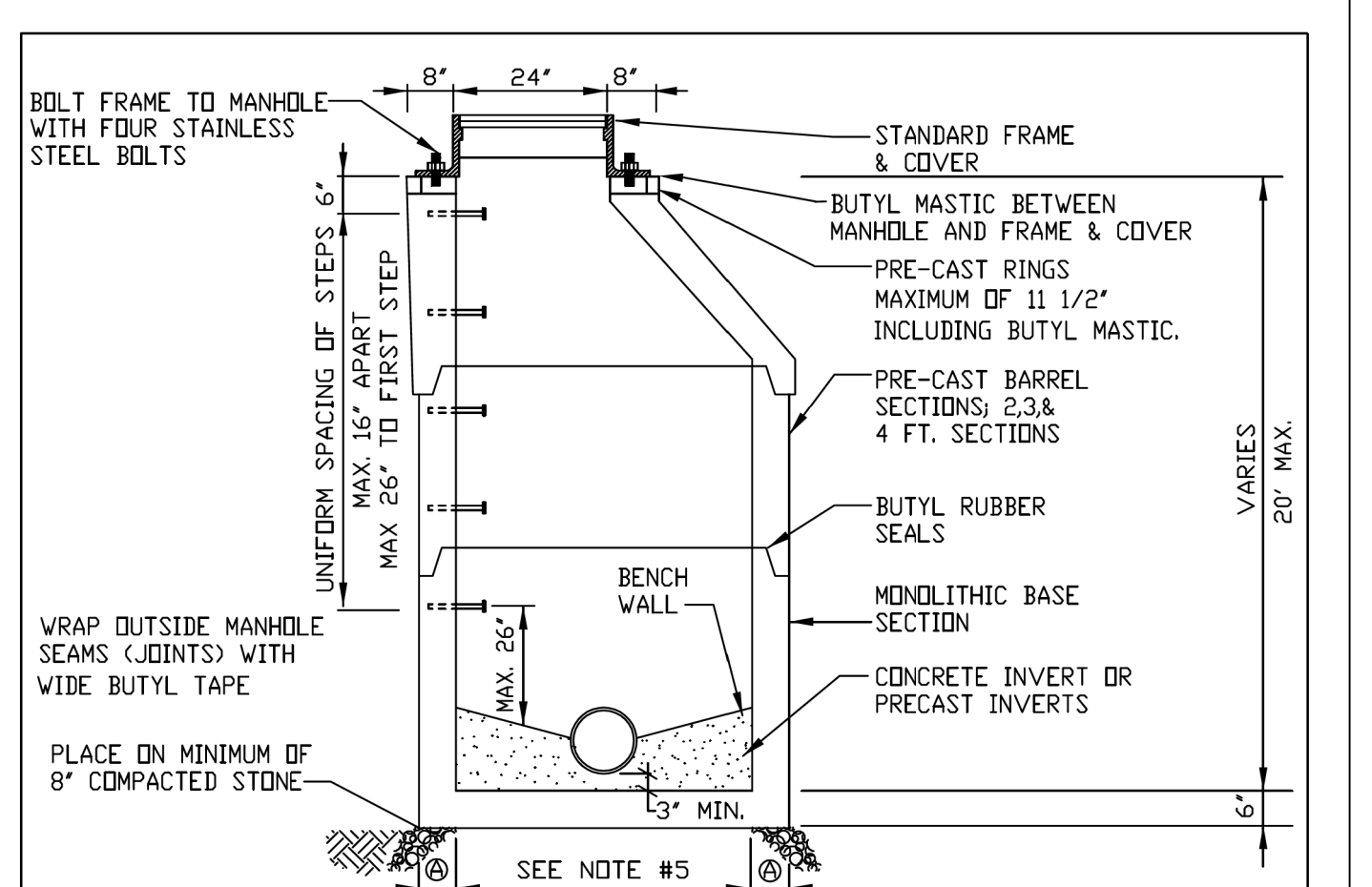
DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED

PROJECT TYPICAL DETAILS



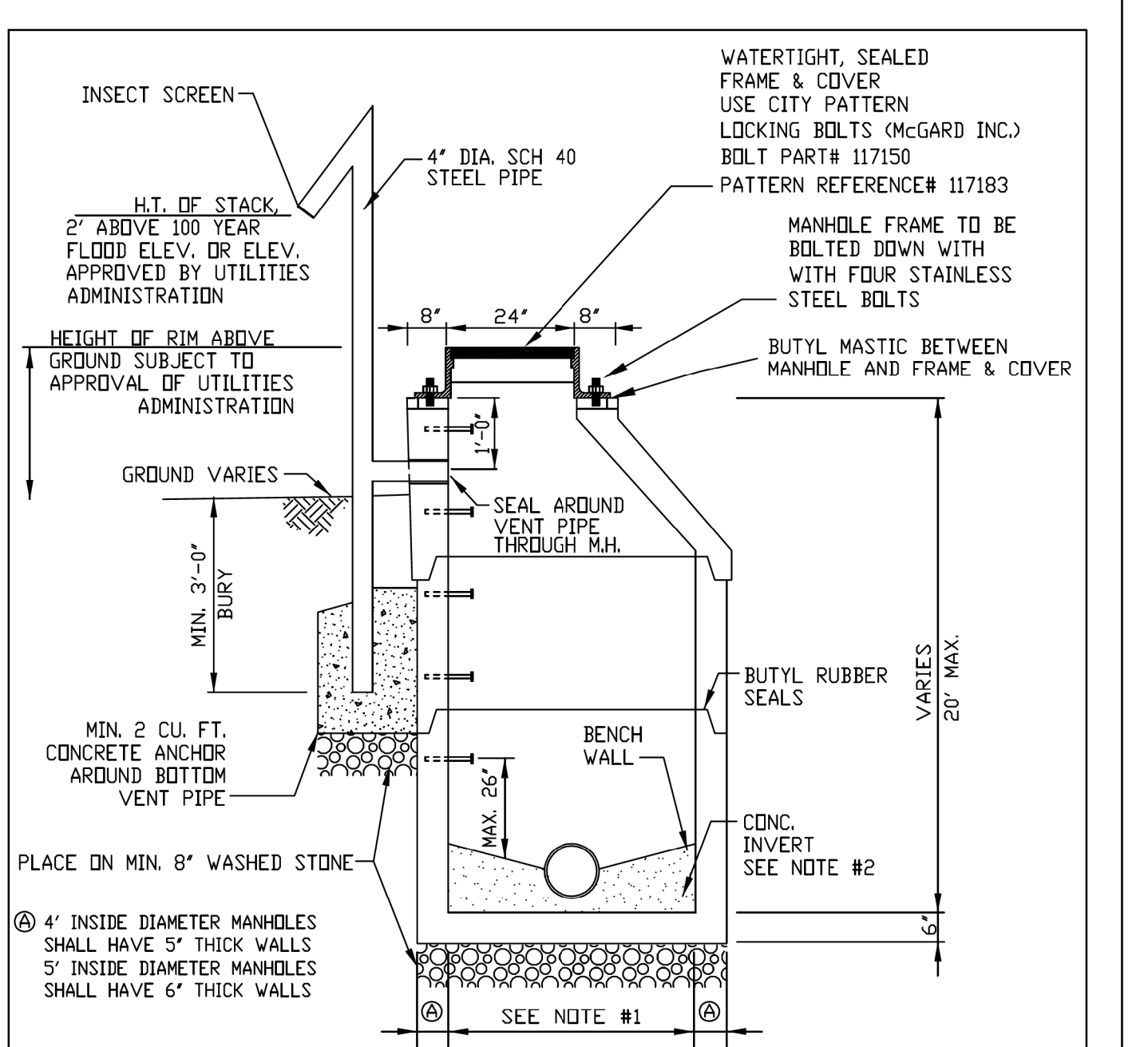
CARRIER PIPE I.D.	CARRIER PIPE O.D.	CASING PIPE		PIPE SUPPORT ASSEMBLY MARK NUMBERS				DIMENSIONS			
		Wt/W	R/R	1	2	3	4	A	B	C	
4"	4.80"	12.75"	0.188"	0.250"	8" x 2" x 2"	6" x 1" x 2"	6" x 2"	??	10.90"	1"	2"
6"	6.30"	12.75"	0.188"	0.250"	8" x 2" x 2"	6" x 1" x 2"	6" x 2"	??	10.90"	1"	2"
8"	9.85"	16.00"	0.250"	0.281"	8" x 2" x 2"	6" x 2" x 2"	6" x 2"	??	14.05"	1"	2"
10"	11.10"	18.00"	0.250"	0.281"	8" x 2" x 2"	6" x 2" x 2"	6" x 2"	??	16.31"	1"	2"
12"	13.20"	20.00"	0.250"	0.344"	8" x 2" x 2"	6" x 2" x 2"	6" x 2"	??	17.70"	1"	2"
14"	15.20"	24.00"	0.250"	0.344"	8" x 2" x 2"	6" x 2" x 2"	6" x 2"	??	21.00"	2"	1"
16"	17.40"	30.00"	0.312"	0.469"	8" x 2" x 2"	6" x 2" x 2"	6" x 2"	??	27.40"	3"	1"
18"	19.50"	30.00"	0.312"	0.469"	8" x 2" x 2"	6" x 2" x 2"	6" x 2"	??	27.50"	3"	1"
20"	21.60"	30.00"	0.312"	0.469"	8" x 2" x 2"	6" x 2" x 2"	6" x 2"	??	27.60"	3"	1"
24"	25.80"	36.00"	0.375"	0.469"	8" x 4" x 2"	6" x 2" x 2"	6" x 2"	??	32.05"	3"	1"
30"	32.80"	42.00"	0.469"	0.469"	12" x 4" x 2"	10" x 2" x 2"	10" x 2"	??	32.75"	3"	1"
36"	38.30"	48.00"	0.500"	0.500"	12" x 4" x 2"	10" x 2" x 2"	10" x 2"	??	45.05"	3"	1"

CITY OF SALISBURY, N.C.	STANDARD DETAIL	DATE: JANUARY 1, 1991
PIPELINE INSTALLATION		NOT TO SCALE
PIPE SUPPORT ASSEMBLY		STANDARD P-6



- NOTES:**
- MANHOLE TO CONFORM WITH ASTM C478 OR LATEST REVISION.
 - ALL JOINTS SHALL CONFORM WITH ASTM C443.
 - STEPS TO BE PLASTIC PER CITY STANDARDS.
 - BUTYL RUBBER SEALANT TO MEET FEDERAL SPECIFICATION (GSA-FSS) SS-S-00210.
 - 4.8" DIA. M.H. PIPES 8"-18" 6.0" DIA. M.H. PIPES 20"-30"
 - MANHOLES WITH A DEPTH OF 10' OR GREATER MUST BE 5' DIAMETER.
 - ALL MANHOLES ARE REQUIRED TO BE VACUUM TESTED.
 - NO LATERALS OR CORES IN MANHOLE CONE SECTION.
 - FLOOR HARDENER ON BENCH WALLS & INVERT-MIN. 1/2" THICKNESS.

CITY OF SALISBURY, N.C.	STANDARD DETAIL	DATE: OCTOBER 17, 2006 AMENDED: MAY 19, 2009
SEWER SYSTEMS		NOT TO SCALE
PRECAST MANHOLE		STANDARD SS-1



- NOTES:**
- 4'-0" I.D. FOR 18" & SMALLER PIPES. 5'-0" I.D. FOR 21" & LARGER PIPES.
 - PRECAST CONCRETE INVERTS MAY BE USED IN LIEU OF POURED BASES.
 - MANHOLES MUST NOT HAVE ANY LARGE CHIPPED AREAS, BROKEN AREAS, CRACKS, OR EXPOSED REINFORCEMENT, OR OTHER DEFECTS. DEFECTIVE MANHOLES WILL NOT BE ACCEPTED.
 - STEEL PIPE TO HAVE AN INSIDE COAL-TAR LINING. 3/32 INCH MINIMUM THICKNESS. THE OUTSIDE SHALL BE SAND OR GRIT BLASTED AND COATED WITH TWO COATS OF URETHANE PAINT SUCH AS TNEC 73-EN-DURA SHIELD FOR A TOTAL DRY FILM THICKNESS OF 5 MILS. COLOR TO BE 'OLIVE GREEN'.
 - MANHOLES WITH A DEPTH OF 10.0' OR GREATER MUST BE 5' DIAMETER.
 - WRAP OUTSIDE MANHOLE SEAMS (JOINTS) WITH A WIDE BUTYL TAPE.

CITY OF SALISBURY, N.C.	STANDARD DETAIL	DATE: OCTOBER 17, 2006 AMENDED: MAY 19, 2009
SEWER SYSTEMS		NOT TO SCALE
MANHOLE VENT		STANDARD SS-4