

SPECIAL BEDDING FOR 12" - 20" DEPTHS

STANDARD BEDDING FOR 3" TO 14" DEPTHS

EMBEDMENT MATERIAL MUST BE CLASS 1 (NO. 67 OR NO. 788 WASHED STONE IS TYPICALLY USED) EMBEDMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY FOR CLASS 1 MATERIAL.

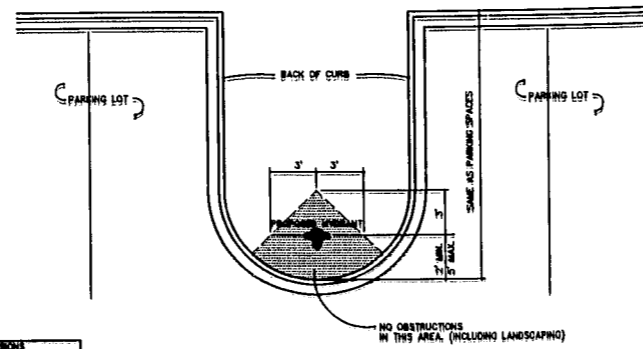
REFERENCE SECTION 7.010 FOR EMBEDMENT MATERIAL SPECIFICATIONS.

ALL SANITARY SEWER LINES LESS THAN 3 FEET AND OVER 20 FEET IN DEPTH MUST BE D.I.P.

REVISIONS	
DATE	DESCRIPTION

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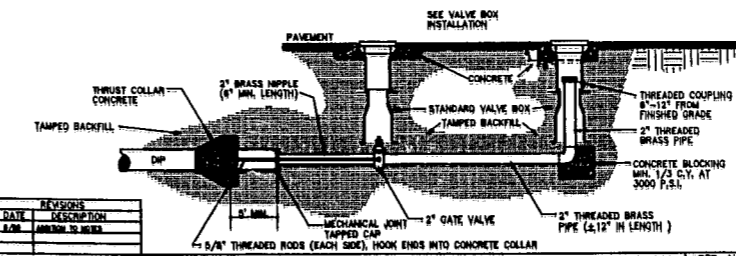
BEDDING FOR FLEXIBLE & SEMI-RIGID SANITARY SEWER PIPE STD. No. 7.13



STANDARD HYDRANT LOCATION (FOR PARKING LOT) STD. No. 8.07

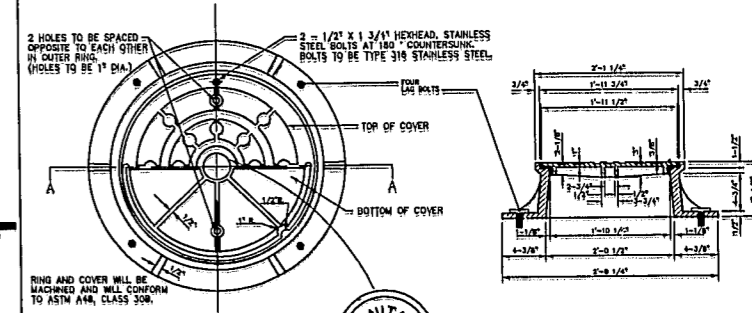
MAIN SIZE	END PIPE SIZE
4" - 12"	2" BLOW-OFF
18" & GREATER	"AS APPROVED BY TOWN ENGINEER"

NOTE:  
1. FOR MAINS THAT ARE TO BE EXTENDED USE A VALVE EQUAL TO THE MAIN SIZE AS THE BLOW-OFF VALVE AND THEN REDUCE TO THE 2" STANDPIPE.  
2. ROD SHALL BE "HOOKED" INTO THRUST COLLAR.

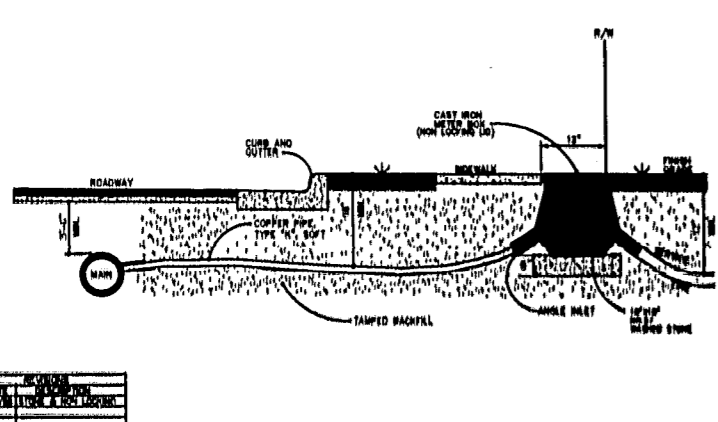


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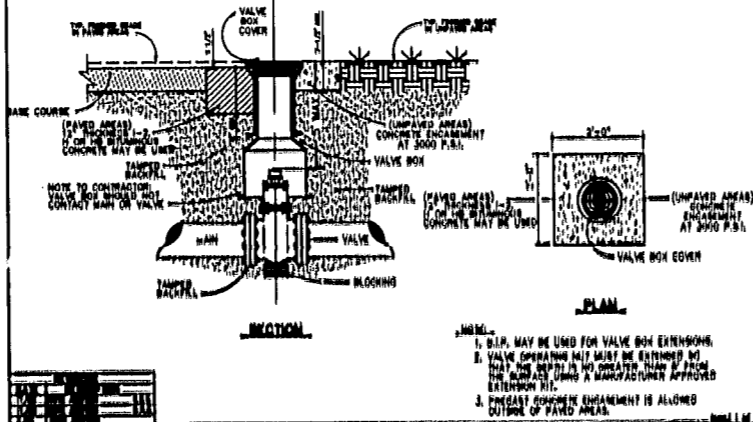
STANDARD 2" BLOW-OFF ASSEMBLY STD. No. 8.11



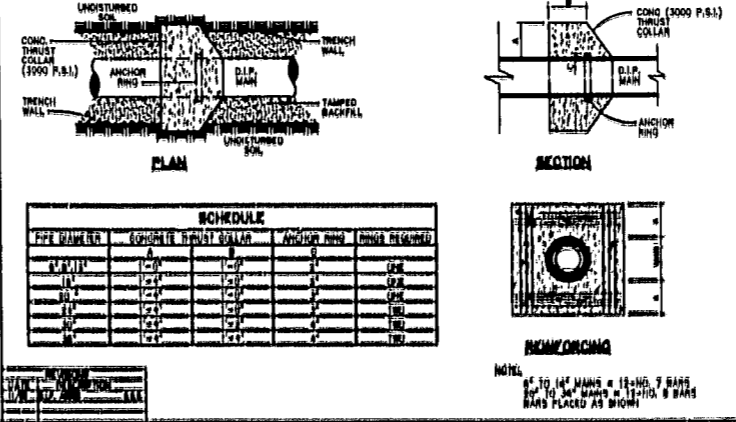
STANDARD MANHOLE RING AND COVER (TYPE 2 FOR OUTFALLS) STD. No. 7.03



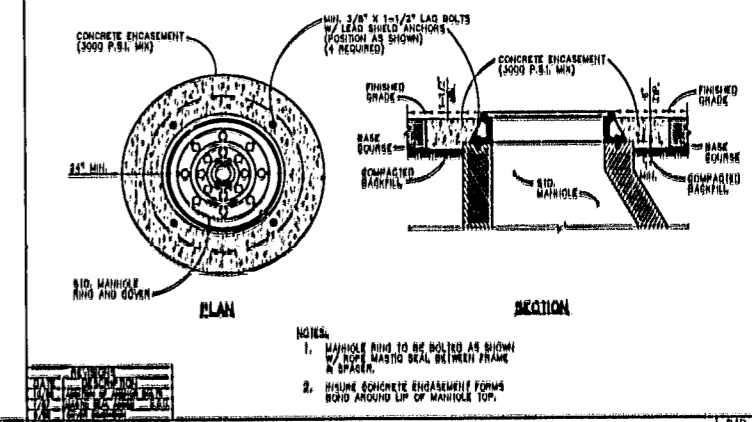
STANDARD 3/4" AND 1" METER BOX INSTALLATION STD. No. 8.01



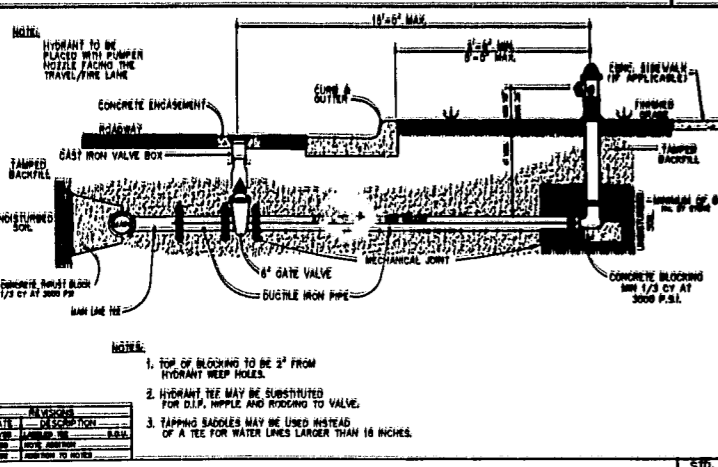
STANDARD VALVE BOX INSTALLATION STD. No. 8.08



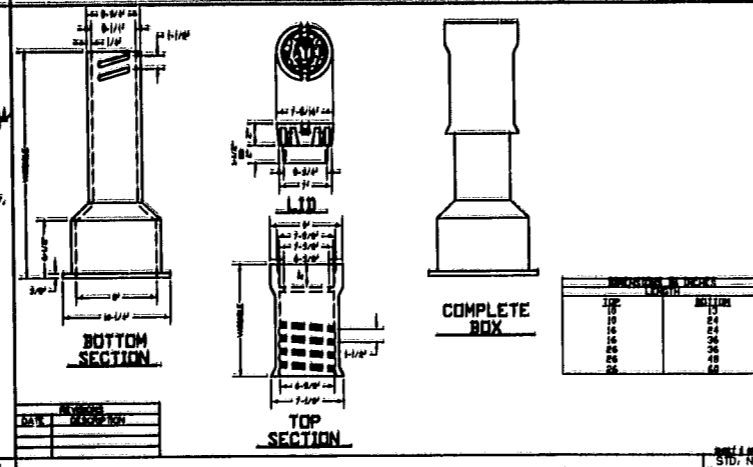
STANDARD THRUST COLLAR INSTALLATION STD. No. 8.14



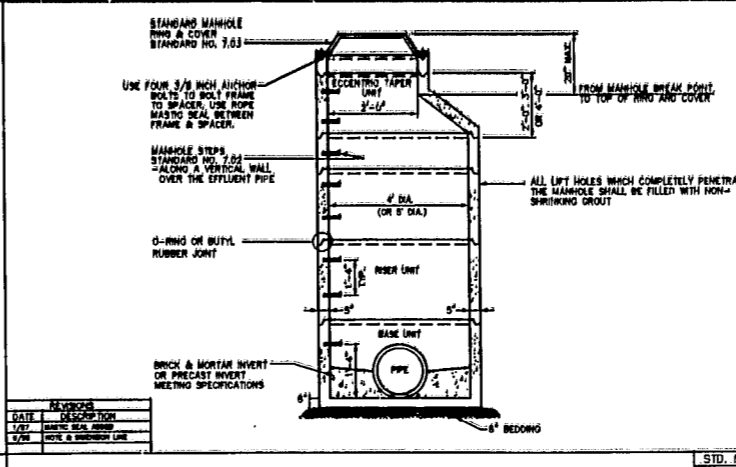
STANDARD MANHOLE RING AND COVER ENCASEMENT STD. No. 7.05



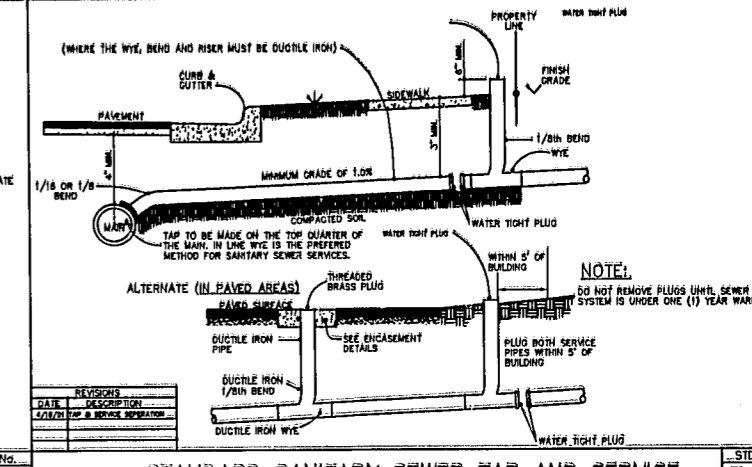
STANDARD HYDRANT INSTALLATION STD. No. 8.06



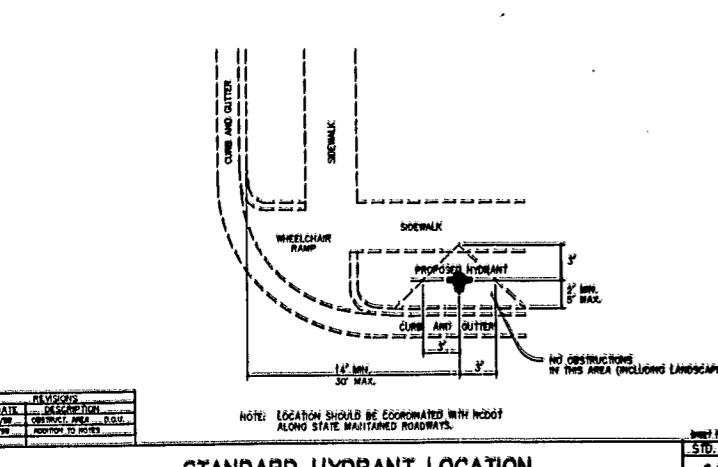
STANDARD VALVE BOX INSTALLATION STD. No. 8.08



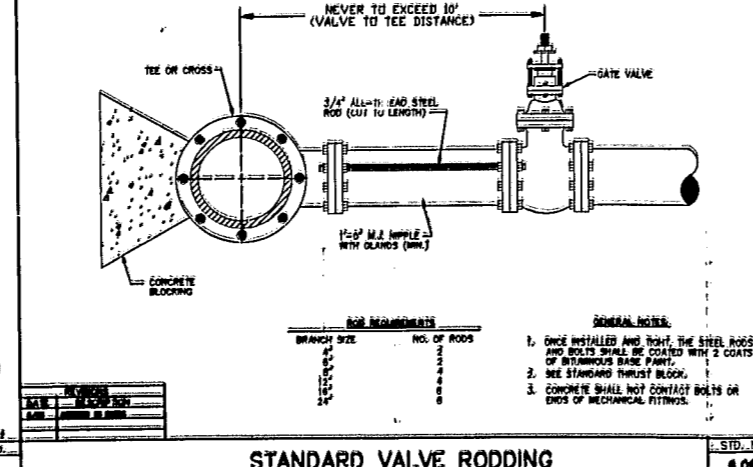
STANDARD PRECAST CONCRETE MANHOLE STD. No. 7.01



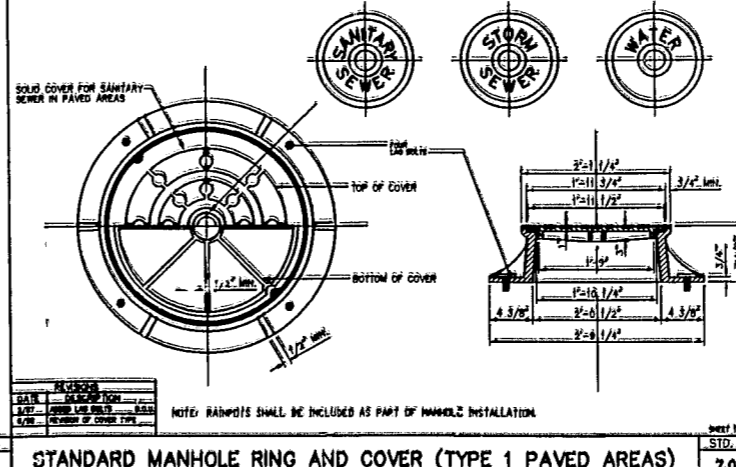
STANDARD SANITARY SEWER TAP AND SERVICE STD. No. 7.10R



STANDARD HYDRANT LOCATION STD. No. 8.07



STANDARD VALVE RODDING STD. No. 8.09



STANDARD MANHOLE RING AND COVER (TYPE 1 PAVED AREAS) STD. No. 7.03

APPROVED TOWN OF CARY

DRG: JRC Date: 11/12/01  
 Planning: BJS Date: 12/10/01  
 Engineering: TS Date: 12/10/01

Robert T. Oldham  
11/2/01

NORTH CAROLINA PROFESSIONAL SEAL  
25612 ENGINEER  
ROBERT T. OLDHAM

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**WITHERS & RAVENEL Engineering & Surveying, Inc.**  
 111 MacKanan Drive - Cary, N.C. 27511  
 919-489-3340 FAX 919-487-6008

Revisions			
No.	Description	Date	By

**CARY PARK PARCEL SF-11c PHASE 1**  
 CARY PARK P.U.D.

**UTILITY DETAILS**

Designer	Scale	CAD File
W&R	NTS	SH18.DWG
Drawn by	Date	Sheet No.
URJ	07/01/01	8 of 8
Checked By	Job No.	201124
RTO		