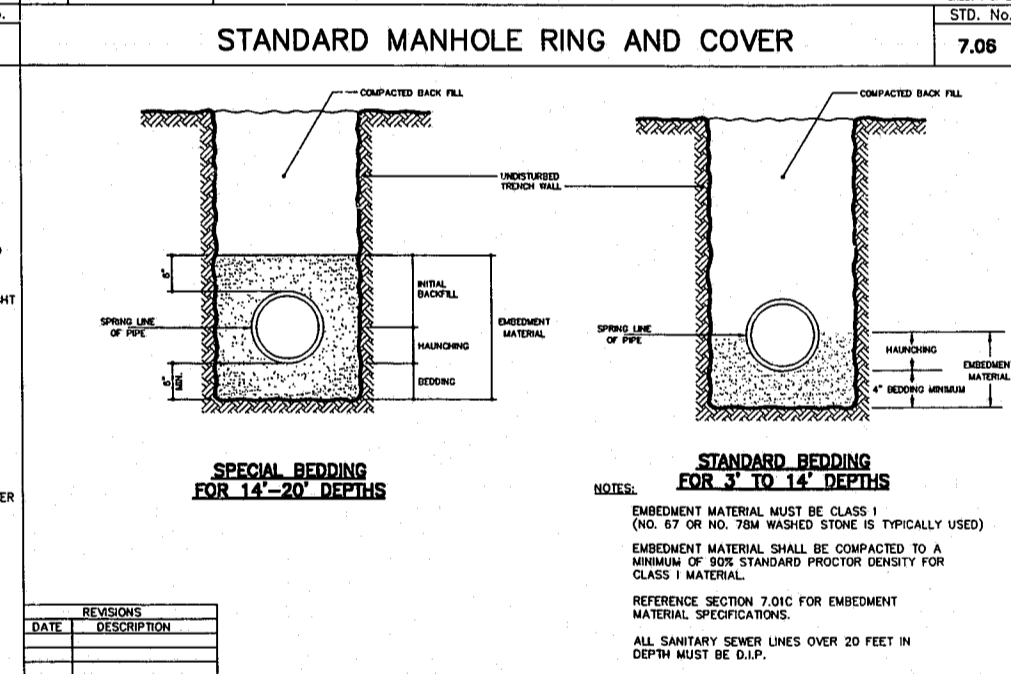
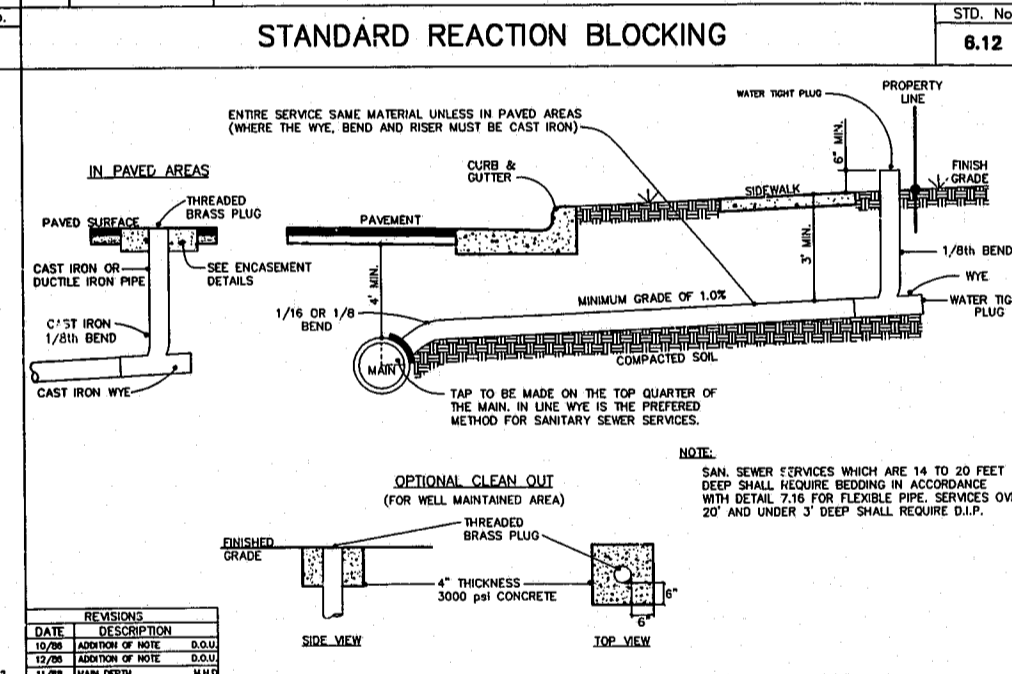
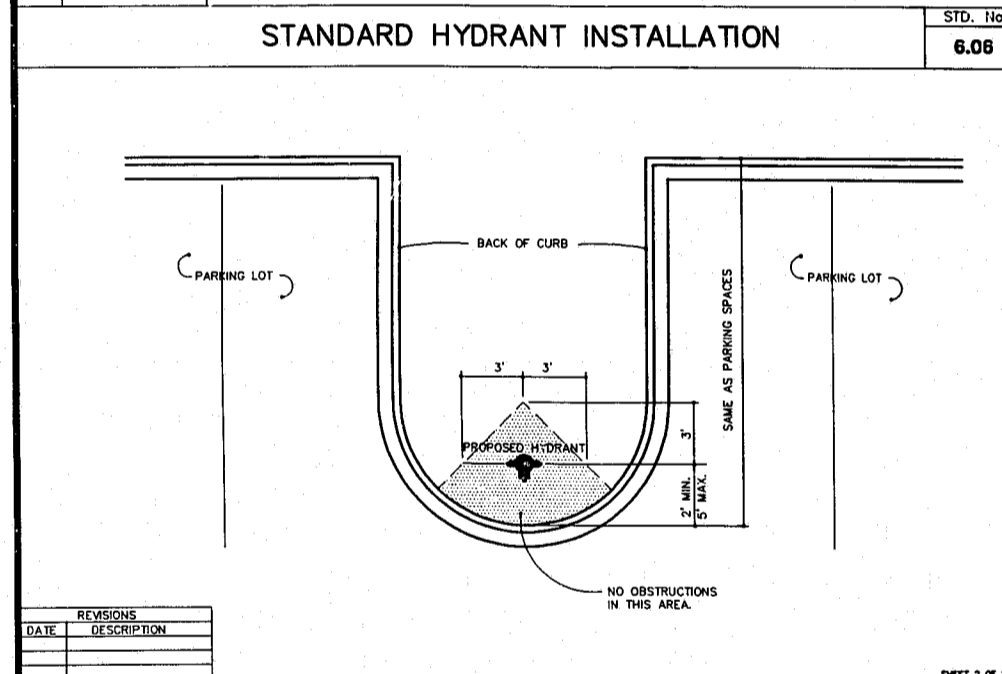
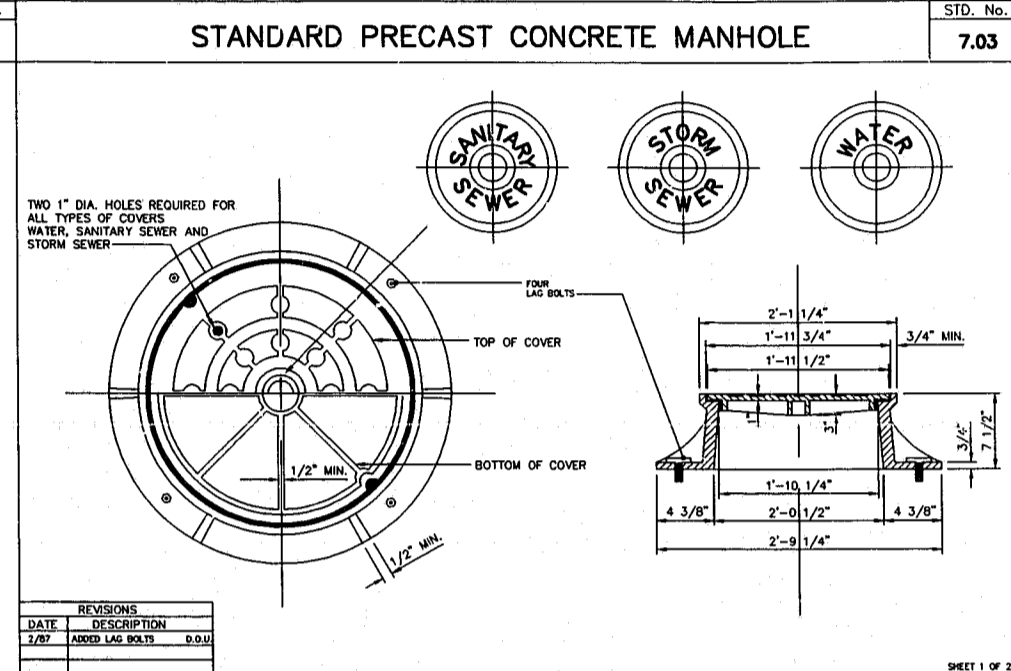


MINIMUM CONCRETE BLOCKING (C.Y.) *

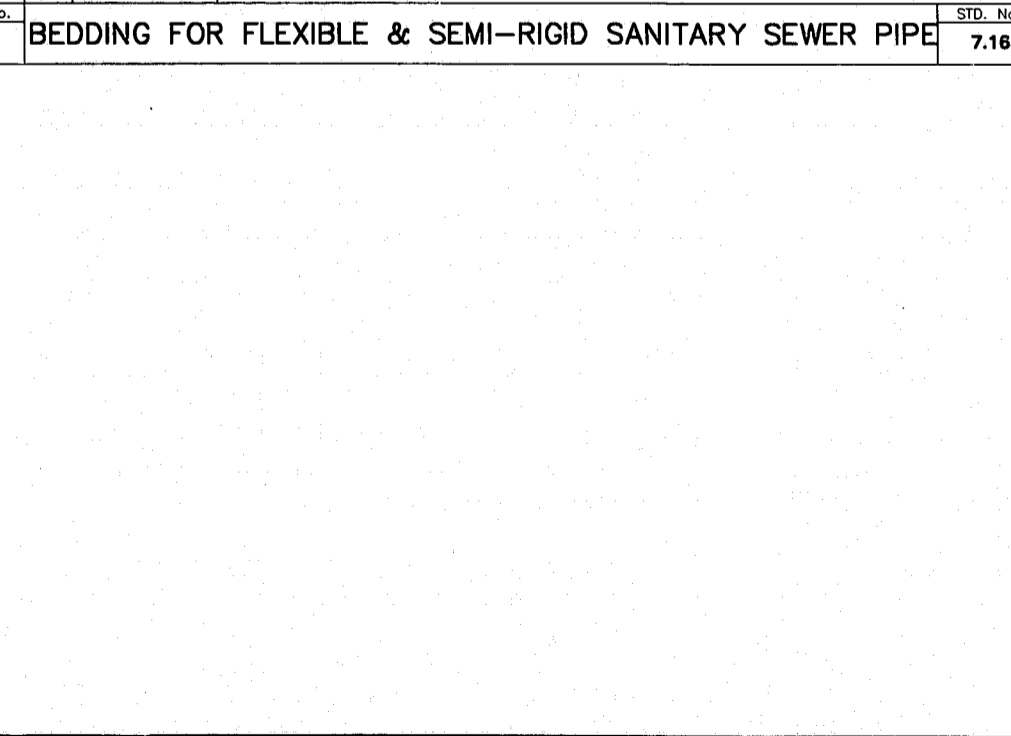
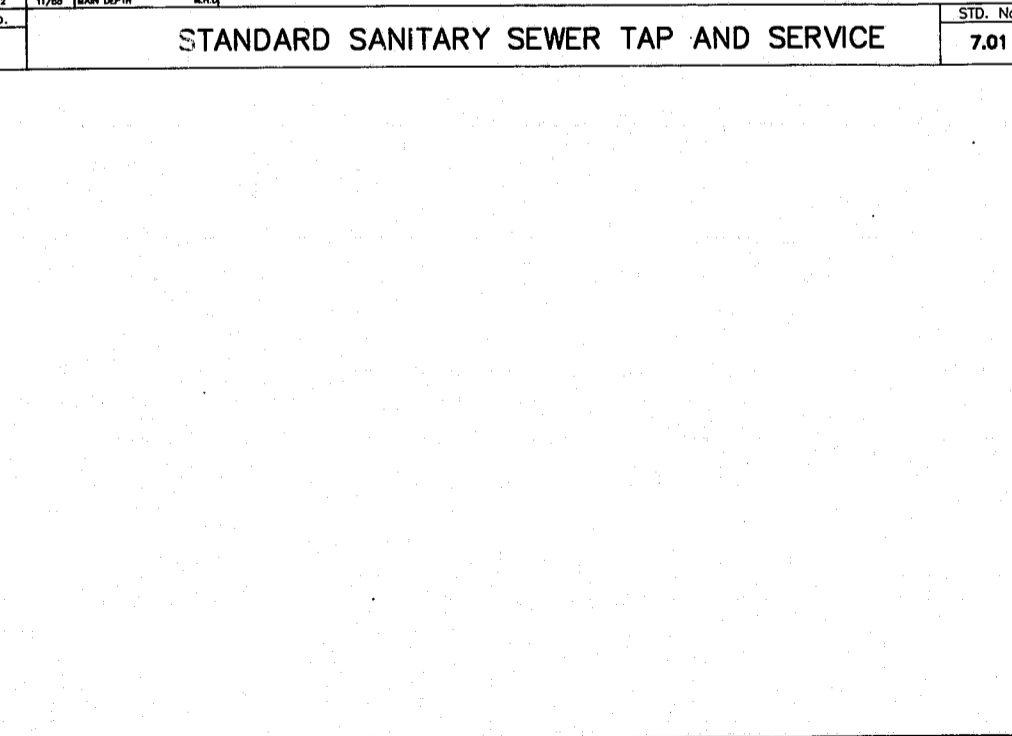
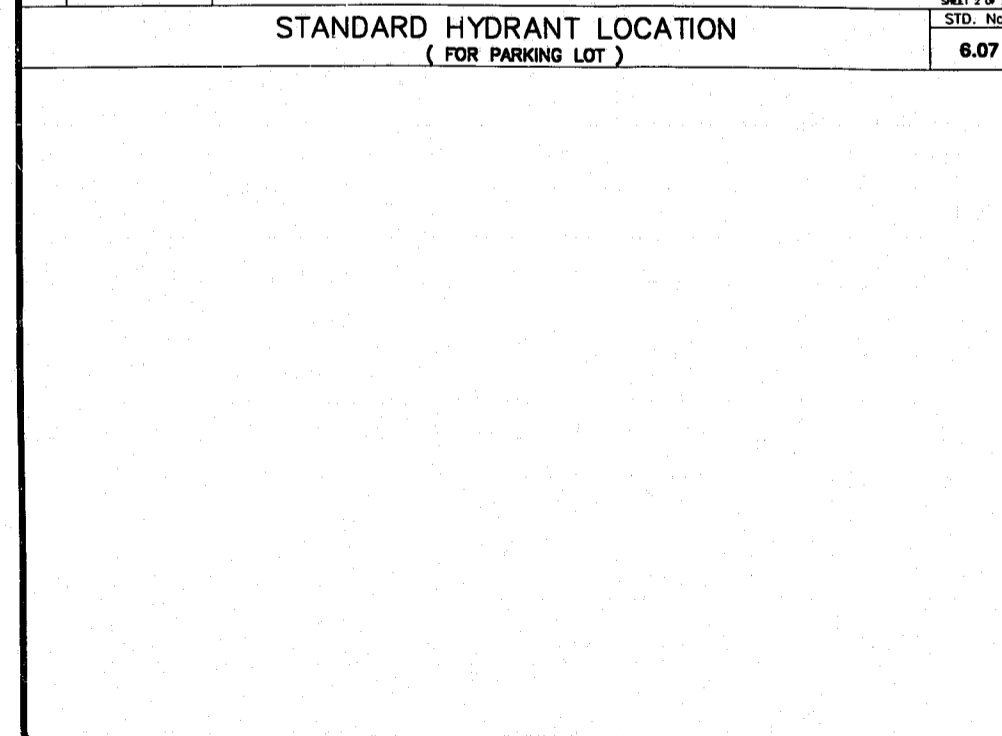
NOM. PIPE DIA. IN.	TEES & DEAD ENDS	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	1/3	1/3	1/3	1/3	1/3
6	1/3	1/3	1/3	1/3	1/3
8	1/3	1/2	1/3	1/3	1/3
10	2/3	3/4	1/2	1/3	1/3
12	3/4	1.0	2/3	1/3	1/3
14	1.0	1-1/2	3/4	1/2	1/3
16	1-1/3	2.0	1.0	1/2	1/3
18	1-2/3	2-1/3	1-1/3	2/3	1/3
20	2.0	3.0	1-2/3	3/4	1/2
24	3.0	4-1/3	2-1/3	1-1/3	2/3

* CONCRETE SHALL BE 3000 P.S.I. MIN.

STANDARD REACTION BLOCKING



- UTILITY NOTES**
- 1) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF CARY STANDARDS, SPECIFICATIONS AND DETAILS LATEST EDITION.
 - 2) CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE LOCATION OF EXISTING UTILITIES SHOWN ON PLANS IS BASED ON THE BEST AVAILABLE INFORMATION BUT CAN BE CONSIDERED ONLY AS APPROXIMATE.
 - 3) ALL MANHOLES LOCATED OUTSIDE OF PAVEMENT AREAS SHALL HAVE A RIM ELEVATION 1 FOOT ABOVE FINISHED GRADE.
 - 4) SANITARY SEWER MAINS AND SERVICES SHALL BE INSTALLED WITH A MINIMUM COVER OF 3 FEET IN NON-TRAFFIC AREAS OR PIPE SHALL BE FERROUS MATERIAL.
 - 5) SANITARY SEWER MAINS AND SERVICES SHALL BE PROVIDED WITH A MINIMUM COVER OF 4 FEET BELOW FINISH SUBGRADE IN TRAFFIC AREAS OR SHALL BE OF FERROUS MATERIAL. SEWER SERVICES INSTALLED WITH A DEPTH OF COVER OF 14 FEET TO 20 FEET SHALL REQUIRE CLASS I BEDDING FROM 4 INCHES BELOW THE SERVICE TO 4 INCHES OVER THE SERVICE LINE. SEWER MAINS AND SERVICES INSTALLED WITH A DEPTH OF COVER OVER 20 FEET SHALL REQUIRE DUCTILE IRON PIPE FOR THE ENTIRE RUN BETWEEN MANHOLES OR CLEANOUTS.
 - 6) MINIMUM SLOPE FOR SANITARY SEWER SERVICES SHALL BE 1.0% FOR 4 INCH SEWER SERVICES. CLEANOUTS SHALL BE PROVIDED AS SHOWN ON THE PLANS BUT SHALL BE SPACED AT NO GREATER THAN 75 LF FOR 4 INCH SERVICES. ALL CLEANOUTS SHALL EXTEND A MINIMUM OF 6 INCHES ABOVE FINISH GRADE OR MEET THE OPTIONAL CLEANOUT REQUIREMENT METHODS AS SPECIFIED IN CARY STANDARD 7.01. CLEANOUTS LOCATED IN PAVED AREAS MUST HAVE CAST IRON RISERS, FITTINGS AND BRASS CAP.
 - 7) WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY MEASURED EDGE TO EDGE FROM EXISTING OR PROPOSED SANITARY OR STORM SEWER UNLESS THE ELEVATION OF THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER WITH THE HORIZONTAL SEPARATION OF AT LEAST 3 FEET. WHERE WATER MAIN AND SANITARY SEWER CROSS, AND THE VERTICAL SEPARATION IS LESS THAN 18 INCHES OR WHERE THE WATERLINE PASSES UNDER THE SANITARY SEWER, THE SEWER MAIN SHALL BE DUCTILE IRON PIPE.
 - 8) ALL WATER MAINS 4 INCHES AND LARGER SHALL BE DUCTILE IRON PIPE. WATER SERVICES 3 INCHES AND LARGER SHALL BE DUCTILE IRON PIPE. WATER SERVICES LESS THAN 3 INCHES SHALL BE TYPE "C" COPPER TUBE SERVICE (CTS) BETWEEN THE MAIN AND THE METER OR END OF THE TOWN MAINTENANCE AS INDICATED BY EASEMENTS. WATER SERVICES BETWEEN THE METER OR END OF TOWN MAINTENANCE AND THE POINT OF TERMINATION SHOWN ON THE PLANS SHALL BE AS SPECIFIED ON THE PLANS. WHERE A SERVICE TERMINATES FOR CONTINUATION BY A PLUMBING OR FIRE SERVICE CONTRACTOR, CAPPING SHALL BE PROVIDED IN COORDINATION WITH THE NEXT CONTRACTOR SO THAT THE EXTENSIONS CAN BE MADE WITHOUT RETESTING OR RECERTIFICATION.
 - 9) WATER SERVICE IS TO BE TERMINATED 5' OUTSIDE OF BUILDING FOR CONTINUATION BY PLUMBING CONTRACTOR.
 - 10) WATER MAINS SHALL BE INSTALLED WITH A MINIMUM COVER OF 4 FEET MEASURED FROM THE TOP OF THE PIPE TO THE FINISHED SUBGRADE.
 - 11) WHERE THE STATIC WATER PRESSURE IS IN EXCESS OF 80 PSI, A PRESSURE REDUCING VALVE SHALL BE PROVIDED INSIDE THE BUILDING IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLUMBING CODE.
 - 12) CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS IS BASED ON THE BEST AVAILABLE INFORMATION BUT CAN BE CONSIDERED ONLY AS APPROXIMATE.



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Revisions

No.	Description	Date	By

SOUTHERN STATES NISSAN
CARY, NC

UTILITY DETAILS

Designer	Scale	CAD File
Drawn By	NTS	SHTDET.DWG
Checked By	Date	Sheet No.
	4AUG99	
	Job No.	6B of
	99145	