Dewberry

PROJECT REFERENCE NO. DESIGNED BY:

UC-3B B-5318 DRAWN BY: CHECKED BY: APPROVED BY: REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SHEET NO.

PHONE: (919)707-6690 UTILITY CONSTRUCTION FAX: (919)250-4151 PLANS ONLY UTILITY CONSTRUCTION

SITE PERMITTING APPROVAL

UTILITIES ENGINEERING SEC

Water and Sewer Permits (If applicable)

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # S-4929

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # W-3587

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh Public Utilities Department Permit # N/A

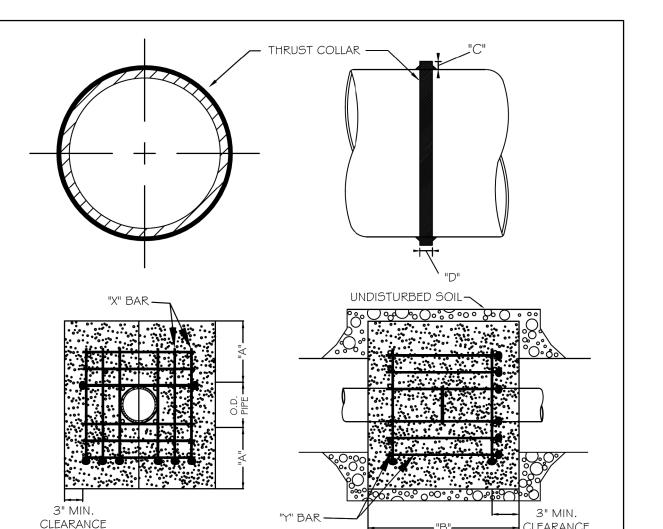
Public Works/Engineering

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.





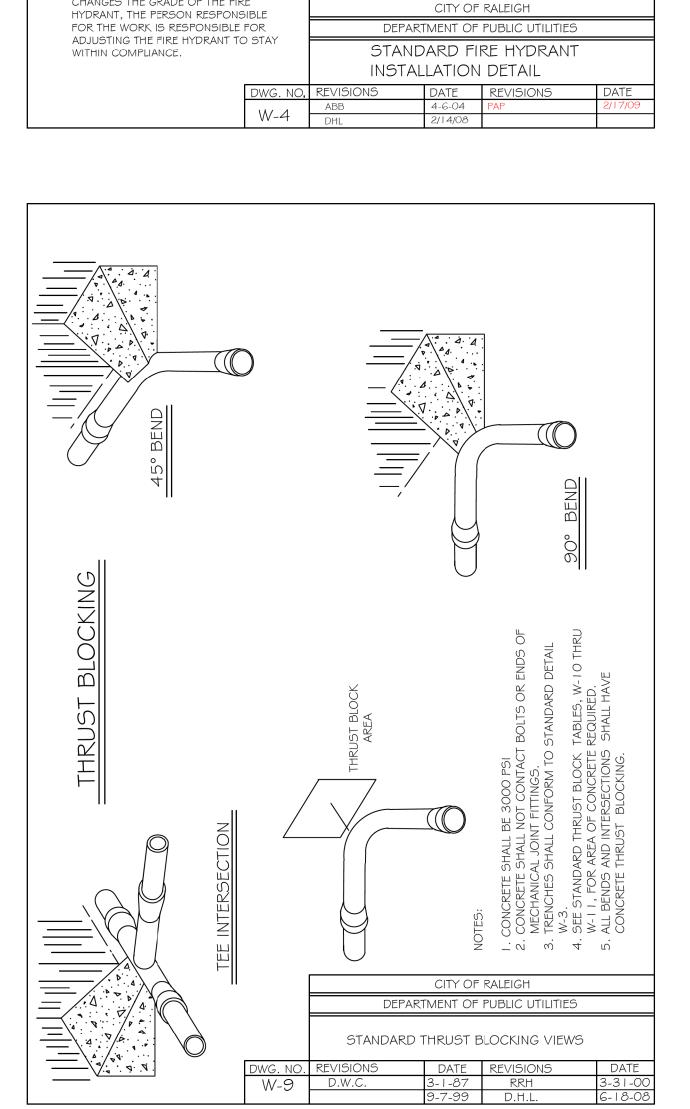
I		REINFORCING REQUIREMENTS									
I		I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WEIGHT	"Y" BAR L	ENGTH	"Y" BAR WEIGHT	NO. REQUIR		
I		6" - 36"	#5	2'-2"+ O.D. PIPE	1.043 LBS/FT	151	II	I.I LBS. EACH	X-24, Y-1		
I		48" ‡ greater	#6	3'-0"+ O.D. PIPE	1.502 LBS/FT	1'-3	3"	1.9 LBS. EACH	X-24, Y-1		
I	THRUST COLLAR, AND THRUST SCHEDULE										
I	I.D. PIPE		"A"	"B"	"C"		"D"				
ı			1' 4"	11 フ"	2"			2/8"			

NOTES:

- . SEE STANDARD DETAIL W-9 FOR THRUST BLOCK LOCATIONS.
- CONCRETE SHALL BE 3000 PSI AND TRANSIT MIXED. . REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
- 4. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK INSTALLATION SHALL BE THE MINIMUM WIDTH AS SHOWN ON STANDARD DETAIL W-3.
- . BACKFILL TAMPED IN 6" LIFTS PER
- STANDARD DETAIL W-3. . THRUST COLLAR MUST BE FACTORY
- WELDED ON BOTH SIDES ALONG BOTH EDGES OF COLLAR AROUND CIRCUMFERENCE.

CITT OF NALLIGIT
DEPARTMENT OF PUBLIC UTILITIES
THRUST BLOCKING DESIGN DATA FOR WATER MAINS

	FOR WATER MAINS							
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE				
W-7	RRH	1-21-00	J.P.S.	11-1-10				
,	D.H.L.	6-18-08						



PROPERTY

MINIMUM 36" HORIZONTAL CLEARANCE

TOWARDS FIRE TRUCK ACCESS.

TRAFFIC FLANGE BETWEEN 2" - 6"

FIRE HYDRANT, PUMPER NOZZLE TO BE POINTED

COMPACTED BACKFILL

I. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, M&H,

RODS SHALL NOT BE COUPLED MORE THAN ONCE. IF THE LENGTH FROM THE VALVE TO THE

HYDRANT EXCEEDS 20' THEN A MECHANICAL RESTRAINING GLAND WITH A REBAR CAGE SHALL BE

(TAMPED IN 6" LIFTS)

6" MIN. BRANCH PIPE

WATEROUS, CLOW, EAST JORDAN IRON WORKS, OR US PIPE.

4. STEEL RODS AND BOLTS SHALL BE $\frac{3}{4}$ HOT DIPPED GALVANIZED

5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION

INSTALLED NO MORE THAN 10' FROM HYDRANT AND POURED IN CONCRETE.

FIRE HYDRANTS TO BE LOCATED IN ROW OR 2 FOOT EASEMENT ADJACENT TO ROW

2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C I 50-96

3. 6" GATE VALVE SHALL BE AWWA C500-86 OPEN LEFT

ANYTIME SITE WORK, CONSTRUCTION,

ROAD WORK, OR ANY OTHER WORK

CHANGES THE GRADE OF THE FIRE

RESTRAINING GLANDS A CONTRACTOR OF THE PROPERTY O

/ CURB AND GUTTER

VALVE BOX

PAVEMENT

BLOCK

-UNDISTURBED EARTH.

RESTRAINING

GLANDS

CONC. THRUST

FROM ANY OBJECT.

ABOVE GRADE

1'-3"x 1'-3"x 4" THICK

7 CU. FT. CRUSHED

STONE MIN.

