

12/12/97 08:37:38 RD-12.2

LEGEND

NOTE:

EXISTING FACILITIES ARE SHOWN WITH SCREENED LINES, NEW FACILITIES WITH SOLID LINES.

WOODS LINE, CLEARING LIMITS

TREE

HEDGE, ROW OF BUSHES

RAILROAD

FENCE

GUARDRAIL

ROADS, STREETS OR DRIVEWAYS

SURVEY POINT (PI)

SURVEY MONUMENT

EXISTING SANITARY SEWER MANHOLE

EXISTING STORM DRAIN MANHOLE

EXISTING WATER VALVE MANHOLE

POWER POLE AND GUY ANCHOR

CATCH BASIN

FIRE HYDRANT

UTILITY CABLE PEDESTAL

WATER OR GAS VALVE

WATER LINE

SANITARY SEWER LINE

STORM SEWER LINE

UNDERGROUND FIBER OPTICS

UNDERGROUND TELEPHONE LINE

UNDERGROUND ELECTRICAL LINE

GAS LINE

OVERHEAD ELECTRICAL LINE

UNDERGROUND CABLE TV LINE

PROPERTY LINE

RIGHT-OF-WAY LINE

PERMANENT EASEMENT LINE

TEMPORARY EASEMENT LINE

HOUSE, BUILDING, OR MOBILE HOME

GRADE CONTOUR LINE

TEST HOLE AND NUMBER

(SEE GENERAL NOTE 9)

WATER LINE (EDGE OF RIVER)

(SEE GENERAL NOTE 9)

GENERAL NOTES:

- PIPELINE TOPOGRAPHY WAS OBTAINED BY PHOTOGRAMMETRIC METHODS BY LUMSDEN ASSOCIATES, P.C. TOPOGRAPHY IS NOT GUARANTEED AS TO THE COMPLETENESS AND ACCURACY. CONTRACTOR SHALL VERIFY PERTINENT DATA IN THE FIELD.
- THE LOCATION OF EXISTING PIPES OR OTHER UNDERGROUND STRUCTURES OR OF PROPERTY LINES ARE NOT WARRANTED TO BE EXACT. NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES OR STRUCTURES ARE SHOWN. UNDERGROUND UTILITIES HAVE BEEN LOCATED USING AVAILABLE MAPPING. THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-552-7001 48 HOURS PRIOR TO ANY EXCAVATION TO OBTAIN ADDITIONAL UTILITY LOCATION INFORMATION, OR USE OTHER AVAILABLE INFORMATION TO IDENTIFY UTILITIES NOT LOCATED BY "MISS UTILITY". IN ADDITION, THE PROPOSED ROANOKE RIVER INTERCEPTOR ALIGNMENT AND MANHOLES INDICATED ON THE DRAWINGS ARE LOCATED A MINIMUM DISTANCE OF 15 LF FROM THE EXISTING INTERCEPTOR AND MANHOLES (E TO E) IF THIS DISTANCE CANNOT BE MAINTAINED DURING CONSTRUCTION DUE TO ACTUAL LOCATION OF THE EXISTING INTERCEPTOR, THE PROPOSED INTERCEPTOR PIPE AND MANHOLE(S) SHALL BE RELOCATED BY CONTRACTOR TO A LOCATION APPROVED BY ENGINEER.
- EXISTING SURVEY MONUMENTS SHALL BE REFERENCED PRIOR TO CONSTRUCTION AND IF DISTURBED OR DAMAGED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- THIS SHEET IS COMPOSED OF GENERAL LEGENDS AND ABBREVIATIONS. NOT ALL OF THE SYMBOLS AND ABBREVIATIONS ARE USED ON THE DRAWINGS FOR THIS PROJECT.
- THE WATER LINE (EDGE OF RIVER) INDICATED ON THE DRAWINGS IS NOT FIXED AND REPRESENTS THE WATER SURFACE ELEVATION ON APRIL 11, 1991.
- LOCATIONS OF PROPERTY LINES AND EXISTING, TEMPORARY, AND PERMANENT EASEMENTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL REFER TO EASEMENT PLATS PREPARED BY T.P. PARKER & SON, SALEM, VIRGINIA.

EARTH OR GRADE

GRANULAR FILL OR GRAVEL

PRECAST CONCRETE

NEW CONCRETE

CONCRETE FILL

RIP-RAP

BRICK

BLOCK

SAND

METAL (LARGE SCALE)

METAL (SMALL SCALE)

GATE VALVE OR SHUTOFF VALVE

CHECK VALVE

MECHANICAL COUPLING

BUTTERFLY VALVE

SECTION NO. OR DETAIL LETTER

DRAWING NO. ON WHICH SECTION OR DETAIL APPEARS, OR WHERE SECTION IS CUT OR DETAIL IS SHOWN.

LINE SIZE CHANGE (REDUCER)

BALL VALVE

CHECK VALVE

CHLORINE INSTITUTE VALVE

UNION

BUTTERFLY VALVE

GATE VALVE

AIR RELEASE VALVE

BLOW-OFF

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ABBREVIATIONS

AB	ANCHOR BOLT	FCV	FLOW CONTROL VALVE
ABC	AGGREGATE BASE COURSE	FD	FLOOR DRAIN
AC	ACRES	FE	FLOW ELEMENT
AFH	ARROWHEAD FIRE HYDRANT	FEC	FIRE EXTINGUISHER CABINET
ALUM	ALUMINUM	FES	FIRE EXTINGUISHER SECTION
ANCH	ANCHOR	FH	FIRE HYDRANT
AND	AND	FIN	FINISH, FINAL
APPROX	APPROXIMATE	FF	FINISHED FLOOR
ARCH	ARCHITECTURAL	F/L	FLOW LINE
ARV	AIR RELEASE VALVE	FLG	FLANGE
ASSY	ASSEMBLY	FLEX	FLEXIBLE
AUTO	AUTOMATIC	FLR	FLOOR
AVC	AMERICAN WATER WORKS ASSOC.	FM	FORCE MAIN, FLOWMETER
AWWA	AMERICAN WATER WORKS ASSOC.	FS	FLOW SWITCH
BC	BOLT CIRCLE	FTG	FLOW TUBE
BF	BUTTERFLY VALVE	G	GAS, GRAVEL
B/L	BASING	GALV	GALVANIZED
BLDG	BUILDING	GPM	GALLONS PER MINUTE
BLK	BLOCK	GR	GRASS
BM	BENCHMARK	GV	GATE VALVE
BOL	BOLTED	H	HIGH (HEIGHT)
BOL	BEGINNING OF LINE	HB	HALF BEVEL
BRK	BRICK	HC	HOLE
BS	BOTH SIDES	HM	HOLLOW METAL
BSMT	BASEMENT	HMC	HARNESSED MECHANICAL COUPLING
BWF	BARBED WIRE FENCE	HJ	HORIZONTAL
C&G	CURB AND GUTTER	HORIZ	HORIZONTAL
C&G	COURSE AGGREGATE BASE COURSE	HV	HOSE VALVE
CB	CATCH BASIN	HWC	HIGH WHEEL, VENTILATING, AND AIR CONDITIONING
CCP	CONCRETE CULVERT PIPE	HWM	HIGH WATER LEVEL
CFM	CUBIC FEET PER MINUTE	HW	HIGHWAY
CHS	CHECKERED	I	INSIDE DIAMETER
CHKD	CAST IRON	IF	INSIDE FACE
CI	CAST IRON PIPE	IN	INCHES
CIP	CENTER LINE	INT	INTERSECTION, INTERCEPTOR
CLG	CEILING	INT	INTERSECTION, INTERCEPTOR
CLR	CLEAR(RANCE)	IP	IRON PIPE
CM	CONCRETE MONUMENT	IPS	IRON PIPE SIZE
CO	CLEAN OUT, COMPANY	JB	JUNCTION BOX
COE	CORPUS OF ENGINEERS	JT	JOINT
CONC	CONCRETE, CONCENTRIC	L	LONG, LOUVER
CONN	CONNECTION	LA	LINE AREA
CONST	CONSTRUCTION	LB	LINE BACK
CONT	CONTINUOUS	LF	LINEAR FEET
COR	CORNER	LN	LINE
CPLG	COUPLING	LT	LEFT
CRS	COURSES	LWL	LOW WATER LEVEL
CS	CHARON STEEL	MAINT	MAINTENANCE
CSJ	CONSTRUCTION JOINT	MATL	MATERIAL
CTR(S)	CENTER(S)	MC	MECHANICAL COUPLING
CU	CUBIC	MC	MECHANICAL COUPLING
CV	CHECK VALVE	ME	METAL
CY	CUBIC YARD	ME(S)	MANUFACTURER(S)
D	DOOR, DRAIN	MG	MILLION GALLONS PER DAY
DET	DETAIL	MH	MANHOLE
DF	DRINKING FOUNTAIN	MIN	MINIMUM, MINUTE
DIM	DIMENSION	MISC	MISCELLANEOUS
DIP	DUCTILE IRON PIPE	MJ	MECHANICAL JOINT
DISCH	DISCHARGE	MON	MONUMENT
DN	DOWN	MTD	MOUNTED
DR	DRIVE	MV	MUD VALVE
DRL	DRAINING	N	NORTH
DML	DOMEL	N/A	NOT AVAILABLE
E	EAST	NE	NORTHEAST
EA	EACH	NEC	NOT IN CONTRACT
ECC	ECCENTRIC	NO	NORMALLY OPENED
EFC	ELECTRIC FLUID	NO.	NUMBER(S)
EFF	EFFLUENT	NORM	NORMAL
ENT	ENTRANCE	NTS	NOT TO SCALE
EOL	END OF LINE	NR	NORTHWEST
EQ	EQUIPMENT	OC	ON CENTER
EQUIP	EQUIPMENT	OPNG	OPENING
EW	EACH WAY	OPNG	OPENING
EW	EACH WAY EACH FACE	OROL	OVERLAP ON ROOF DRAIN
EMH	ELECTRIC WATER HEATER	OROL	OVERLAP ON ROOF DRAIN
EXIST	EXISTING	PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
EXT	EXTERIOR, EXTENSION, EXTEND	PE	PLAIN END
FB	FULL BEVEL	P/E	PERMANENT EASEMENT
FCA	FLANGE COUPLING ADAPTER	PE	PLAIN END
FCV	FLOW CONTROL VALVE	PE	PLAIN END

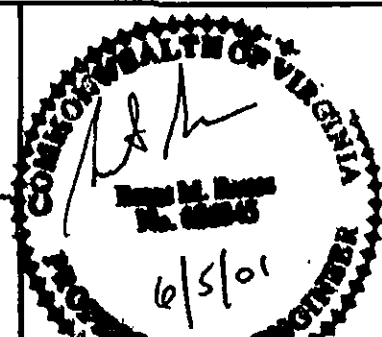
PP	POWER POLE	PP	POWER POLE
PRV	PRESSURE REDUCING VALVE	PRV	PRESSURE REDUCING VALVE
PS	PUMP SOLUTION	PS	PUMP SOLUTION
PSF	PIPE SUPPORT FIXED	PSF	PIPE SUPPORT FIXED
PSIA	POUNDS PER SQUARE INCH	PSIA	POUNDS PER SQUARE INCH
PVMT	PIPE VALVE MANHOLE TIE	PVMT	PIPE VALVE MANHOLE TIE
PVC	POLYVINYL CHLORIDE	PVC	POLYVINYL CHLORIDE
R	RISER, RADIUS	R	RISER, RADIUS
RCP	REINFORCED CONCRETE PIPE	RCP	REINFORCED CONCRETE PIPE
RD	ROAD DRAIN, ROAD	RD	ROAD DRAIN, ROAD
RED	REDUCER	RED	REDUCER
REIN	REINFORCING	REIN	REINFORCING
REQD	REQUIRED	REQD	REQUIRED
REV	REVISION	REV	REVISION
RM	ROOM, REFERENCE MONUMENT	RM	ROOM, REFERENCE MONUMENT
RJ	RESTRAINED JOINT	RJ	RESTRAINED JOINT
RKE	ROANOKE	RKE	ROANOKE
RMC	RAISED MORTAR COATING	RMC	RAISED MORTAR COATING
RNH	ROANOKE MEMORIAL HOSPITAL	RNH	ROANOKE MEMORIAL HOSPITAL
RON, R/W	RIGHT-OF-WAY	RON, R/W	RIGHT-OF-WAY
RR	RAILROAD, ROANOKE RIVER	RR	RAILROAD, ROANOKE RIVER
RRFRP	ROANOKE RIVER FLOOD REDUCTION PROJECT	RRFRP	ROANOKE RIVER FLOOD REDUCTION PROJECT
R/R	RAILROAD	R/R	RAILROAD
RT	RIGHT	RT	RIGHT
S	SANITARY SEWER	S	SANITARY SEWER
SCH	SCHEDULE	SCH	SCHEDULE
SD	STORM DRAIN INLET	SD	STORM DRAIN INLET
SE	SOUTHEAST	SE	SOUTHEAST
SECT	SECTION	SECT	SECTION
SF	SQUARE FEET	SF	SQUARE FEET
SH	SHEET	SH	SHEET
SP	SPRINKLER	SP	SPRINKLER
SPK	SPEAKER	SPK	SPEAKER
SPEC(S)	SPECIFICATION(S)	SPEC(S)	SPECIFICATION(S)
ST	STATION	ST	STATION
STD	STANDARD	STD	STANDARD
STL	STEEL	STL	STEEL
STL	STRUCTURAL	STL	STRUCTURAL
SUSP	SUSPENDED	SUSP	SUSPENDED
SV	SHUTOFF VALVE	SV	SHUTOFF VALVE
SW	SOUTHWEST	SW	SOUTHWEST
SWD	SIDE WATER DEPTH	SWD	SIDE WATER DEPTH
SY	SQUARE YARD	SY	SQUARE YARD
T	TREAD, TANGENT, TELEPHONE	T	TREAD, TANGENT, TELEPHONE
T&B	TEMPORARY BENCHMARK	T&B	TEMPORARY BENCHMARK
TCP	TERRA COTTA PIPE	TCP	TERRA COTTA PIPE
T/E	TEMPORARY EASEMENT	T/E	TEMPORARY EASEMENT
THK	THICKNESS	THK	THICKNESS
TOC	TOP OF CURB	TOC	TOP OF CURB
TOS	TOP OF STRUCTURE, TOP OF STEEL	TOS	TOP OF STRUCTURE, TOP OF STEEL
TOW	TOP OF WALL	TOW	TOP OF WALL
TP	TELEPHONE PEDESTAL (POLE)	TP	TELEPHONE PEDESTAL (POLE)
TP&S	TP PARKER & SON	TP&S	TP PARKER & SON
TS&V	TAPPING SLEEVE AND VALVE	TS&V	TAPPING SLEEVE AND VALVE
TYP	TYPICAL	TYP	TYPICAL
TV	TELEVISION	TV	TELEVISION
U/G	UNDERGROUND	U/G	UNDERGROUND
UR	URINAL	UR	URINAL
VC	VITRIFIED CLAY	VC	VITRIFIED CLAY
V/ARV	VACUUM & AIR RELEASE VALVE	V/ARV	VACUUM & AIR RELEASE VALVE
VM	VERTICAL	VM	VERTICAL
VOL	VOLUME	VOL	VOLUME
VTR	VENT THROUGH ROOF	VTR	VENT THROUGH ROOF
W	WIDE(TH), WEST, WINDOW	W	WIDE(TH), WEST, WINDOW
WL	WATER LINE, WATER LEVEL	WL	WATER LINE, WATER LEVEL
WM	WATER METER	WM	WATER METER
WV	WATER VALVE	WV	WATER VALVE
WTP	WASTE WATER TREATMENT PLANT	WTP	WASTE WATER TREATMENT PLANT
YD	YARD	YD	YARD
YH	YARD HYDRANT	YH	YARD HYDRANT

BENCHMARK	ELEVATION	DESCRIPTION	BENCHMARK	ELEVATION	DESCRIPTION
RM #18A	908.92	R/R SPIKE IN APCO POLE #279-1175 BENNINGTON ST. & RIVERDALE RD.	TBM #9	987.99	R/R SPK. SET IN APCO LIGHT POLE #278-3624, 86.5' +/- RT. OF C.O.E. B/L STA 307+48.
RM #30S	898.44	STANDARD DISC IN N.E. CORNER SQUARE CONC. MH ON S.E. BANK OF RKE. RIVER, WEST ON INT. OF RIVERSIDE TERRACE & BENNINGTON ST.	TBM #8	978.12	BRIDGE SPK. SET IN R/R TELEGRAPH POLE, 66' +/- LT. OF C.O.E. B/L STA 100+67.24.
TBM #40	908.54	R.H.F.H. ON S. SIDE OF EDERGTON ST. APPROX. 50' +/- S.E. OF P.I. OF BENNINGTON ST. & EDERGTON ST.	TBM #7	976.08	R/R SPK. SET IN R/R ELECTRIC POLE, 90' +/- LT. OF C.O.E. B/L STA 82+07.
TPP&S #1	910.58	ALUM. DISC MON. STAMPED T.P.P.&S. #1, 38' +/- S. OF THE S.E. CORNER OF THE BENNINGTON ST. BRIDGE, NEAR THE ROANOKE WASTEWATER PLANT.	TBM #6	961.80	R/R SPK. SET IN APCO POLE #277-83, 44' +/- RT. OF C.O.E. B/L STA 74+37.
TPP&S #2	907.65	ALUM. DISC MON. STAMPED T.P.P. & S. #2, IN MEDIUM OF BENNINGTON ST. 40' +/- S. OF ITS INT. W/GORDON AVE.	TBM #47	976.88	R/R SPK. SET IN APCO POLE #277-80, 50' +/- RT. OF C.O.E. B/L STA 67+74.
TBM #38	903.84	R/R SPIKE SET IN 7" DBL. PARADISE, 28' +/- RT. OF C.O.E. B/L STA 462+29.	TBM #4	977.46	R/R SPK. SET IN 21" FORKED LOCUST, 51' +/- RT. OF C.O.E. B/L STA 53+76.
TBM #37	908.41	R/R SPIKE SET IN 12" DBL. ELW. 20' +/- RT. OF C.O.E. B/L STA 453+95.	TBM #3	977.84	R/R SPK. SET IN R/R TELEGRAPH POLE, 5' +/- LT. OF C.O.E. B/L STA 43+42.
TBM #41	908.72	"4" ON BOLT & NUT ON S. SIDE OF F.H. 50' +/- S.E. OF INT. OF PROGRESS RD. & INDUSTRY AVE., 7' +/- RT. OF C.O.E. B/L STA 434+96.	TBM #48	979.22	R/R SPK. SET IN R/R LIGHT POLE, 57' +/- LT. OF C.O.E. B/L STA 25+07.
TBM #36	915.16	ALUM. DISC MON. STAMPED T.P.P.&S. #4 S. OF END CITY MAINT. OF PROGRESS RD. #21, +/- RT. OF C.O.E. B/L STA 412+75.	TBM #1	979.62	R/R SPK. SET IN 10" DBL. ELW. 4' +/- LT. OF C.O.E. B/L STA 15+34.
TPP&S #3	911.45	ALUM DISC MON. STAMPED T.P.P.&S. #3 W. SIDE OF BENNINGTON ST., 250' +/- N.W. OF 7-11 STORE.	TPP&S #16	983.65	ALUM. DISC MON. STAMPED T.P.P.&S. #16, ON THE E. SIDE OF AERIAL WAY DR. & MURRY RD. @ VALLEY RICH DAIRY.
TBM #35	914.82	R/R SPIKE SET IN APCO POLE #278-7719, 48' +/- LT. OF C.O.E. B/L STA 412+75.	TPP&S #17	977.56	ALUM. DISC MON. STAMPED T.P.P.&S. #17, ON S.W. SIDE OF AERIAL WAY DR. & MURRY RD. @ VALLEY RICH DAIRY.
TBM #34	919.78	R/R SPK. SET IN 26" SWEET GUM, 40' RT. OF C.O.E. B/L STA 401+83.	TBM #10	982.59	R/R SPK. SET IN R/R TELEGRAPH POLE, 97.5' LT. OF C.O.E. B/L STA 126+37.
RM #36	924.14	CHIS. SQUARE ON S.W. COR. OF SIDEWALK OF 9TH ST. BRIDGE OVER ROANOKE RIVER.	TBM #42	923.86	R.H.F.H. APPROX. 30' +/- WEST OF INT. OF PRIMROSE ST. & ARBUTUS AVE.
TBM #33	917.19	R/R SPK. SET IN 21" FORKED WALNUT, 34' +/- LT. OF C.O.E. B/L STA 380+81.	TPP&S #5	923.94	ALUM. DISC MON. STAMPED T.P.P.&S. #5, 30' +/- SOUTH OF THE INT. OF IVY ST. & ARBUTUS AVE.
TBM #32	922.10	R/R SPK. SET IN 10" PARADISE, 8' +/- LT. OF C.O.E. B/L STA 379+69.	TPP&S #6	917.28	ALUM. DISC MON. STAMPED T.P.P.&S. #6, 30' +/- N.W. OF THE INT. OF IVY ST. & ARBUTUS AVE.

* THESE BENCHMARKS ARE NOT INCLUDED ON DWGS C1 THRU C32 PLAN COVERAGE.

TV INSPECTION OF 1950
ROANOKE INTERCEPTOR SEWER
ROANOKE, VIRGINIA

LEGEND, ABBREVIATIONS, AND
GENERAL NOTES



SHEET
2 OF 19

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