

ABBREVIATIONS				LEGEND			SUMMARY OF QUANTITIES						
						EXISTING	NEW	DESCRIPTION	ITEM	DESCRIPTION	UNIT	QUANTITY	
												ACTUAL	PROPOSAL
ABT	ABOUT	ELEC	ELECTRIC, ELECTRICAL	PVMT	PAVEMENT								
ABUT.	ABUTMENT	ENTR	ENTRANCE	ø	ROUND (DIAMETER)								
ABV	ABOVE	EP	EDGE OF PAVEMENT	R	RIGHT								
ADJ	ADJACENT	EW	END WALL, EACH WAY	R/W	RIGHT OF WAY								
AGGR	AGGREGATE	EXST	EXISTING	RAD	RADIUS								
AHR	ANCHOR	FES	FLARED END SECTION	RCP	REINFORCED CONCRETE PIPE								
ALT	ALTERNATE	FHYD	FIRE HYDRANT	RD	ROAD								
APPROX	APPROXIMATE	FIN.	FINISH	REINF	REINFORCEMENT, REINFORCE								
ASPH	ASPHALT	FL	FLOOR	REQD	REQUIRED								
BC	BOTTOM OF CURB	FLEX.	FLEXIBLE	REV	REVISION								
BET.	BETWEEN	FM	FORCE MAIN	S	SOUTH, SANITARY SEWER								
BITUM	BITUMINOUS	F&C	FRAME AND COVER	SAN	SANITARY								
BL	BASE LINE	FT	FOOT	SCHED	SCHEDULE								
BLDG	BUILDING	G	GAS, GAS MAIN OR SERVICE LINE	SD	STORM DRAIN								
BLK	BLOCK	GALV	GALVANIZED	SEP	SEPARATION								
BLW	BELOW	GM	GAS METER	SF	SILT FENCE								
BM	BENCH MARK	GND	GROUND	SIM	SIMILAR								
BOT	BOTTOM	GR	GRADE	SMH	SANITARY MANHOLE								
BRG	BEARING	GRT	GROUT	SPEC	SPECIFICATION								
BRK	BRICK	GTV	GATE VALVE	SQ	SQUARE								
C TO C	CENTER TO CENTER	GVL	GRAVEL	SS	SANITARY SEWER								
C & G	CURB & GUTTER	HDWL	HEADWALL	SST	STAINLESS STEEL								
CB	CATCH BASIN	HGT	HEIGHT	ST	STREET								
CH	CHAIN	HORIZ	HORIZONTAL	STA	STATION								
CHIS	CHISELED	HPG	HIGH PRESSURE GAS	STD	STANDARD								
CI	CAST IRON	HPT	HIGH POINT	STL	STEEL								
CIP	CAST IN PLACE	HYD	HYDRANT	STOR	STORAGE								
CL, Ø	CENTER LINE	ID	INSIDE DIAMETER	STR	STRAIGHT								
CLR	CLEAR	IN.	INCH	STRL	STRUCTURAL								
CMP	CORRUGATED METAL PIPE	INV	INVERT	STRUC	STRUCTURE								
CMU	CONCRETE MASONRY UNITS	IP	IRON PIN	SUBSTA	SUBSTATION								
CND	CONDUIT	JB	JUNCTION BOX	SW	SIDEWALK								
CO	CLEANOUT	L	LEFT	SY	SQUARE YARD								
CONC	CONCRETE	LAT	LATERAL	T	TELEPHONE								
CONN	CONNECT, CONNECTION	LF	LINEAR FOOT, LINEAR FEET	T&B	TOP AND BOTTOM								
CONST	CONSTRUCTION	LS	LUMP SUM	TB	TEST BORING								
CONT	CONTINUOUS, CONTINUATION	LT	LIGHT	TBM	TEMPORARY BENCH MARK								
CONTR	CONTRACT, CONTRACTOR	M	METER	TC	TOP OF CURB								
COORD	COORDINATE	MATL	MATERIAL	TEL	TELEPHONE								
COR	CORNER	MAX	MAXIMUM	TMP	TAX MAP PARCEL								
COV	COVER	MET.	METAL	TN	TON								
CTR	CENTER	MFR	MANUFACTURER	TOC	TOP OF CONCRETE								
CULV	CULVERT	MH	MANHOLE	TOT.	TOTAL								
DB	DIRECT BURIAL CABLE	MIN	MINIMUM	TS	TRAVERSE STATION								
D.B.	DEED BOOK	MISC	MISCELLANEOUS	TW	TOP OF WALL								
DEF	DEFLECTION	MON	MONUMENT	TYP	TYPICAL								
DEG	DEGREE	N	NORTH	UG	UNDERGROUND								
DEPT	DEPARTMENT	N & D	NAIL AND DISC	UNO	UNLESS NOTED OTHERWISE								
DET	DETAIL	NIC	NOT IN CONTRACT	V	VALVE								
DI	DROP INLET	NO., NOS	NUMBER, NUMBERS	VF	VERTICAL FOOT								
DIA	DIAMETER	NTS	NOT TO SCALE	W	WEST, WATER MAIN OR SERVICE LINE								
DIM.	DIMENSION	OC	ON CENTER	W//	WITH								
DIP.	DUCTILE IRON PIPE	OPNG	OPENING	W/O	WITHOUT								
DMH	DROP MANHOLE	OVDH	OVERHEAD	WM	WATER METER								
DN	DOWN	P	POLE	WP	WATER PROOF								
DR	DOOR, DRIVE	PG.	PAGE	WS	WATER SURFACE								
DWEL	DWELLING	PL	PROPERTY LINE	WT	WATERTIGHT								
DWG	DRAWING	PPL	PETROLEUM PIPE LINE	WTR	WATER								
E	EAST	PC	PRESSURE CLASS	XFMR	TRANSFORMER								
EA	EACH	PCCP	PRESTRESSED CONC CYLINDER PIPE	YHD	YARD HYDRANT								
EL, ELEV	ELEVATION	PVC	POLYVINYLCHLORIDE										
GENERAL NOTES													
1. TOPOGRAPHIC INFORMATION IS BASED ON AERIAL MAPPING PROVIDED BY THE CITY OF ROANOKE,SUPPLEMENTED BY FIELD SURVEY PERFORMED BY HSMN IN 1995.				10. CONSTRUCT SANITARY SEWER ACCORDING TO INDICATED INVERT ELEVATIONS. PROFILE LENGTHS ARE TAKEN TO STRUCTURE LOCATION POINTS AND INCLUDE THE STRUCTURES THEMSELVES.									
2. HORIZONTAL DATUM IS NORTH AMERICAN DATUM OF 1983. VERTICAL DATUM IS LOCAL CITY DATUM.				11. MAINTAIN SANITARY SEWAGE FLOWS AT ALL TIMES. PROVIDE PUMPS, PIPES, CONTROLS, AND INCIDENTALS REQUIRED TO MAINTAIN FLOW.									
3. EXISTING UTILITIES AND THEIR LOCATIONS ARE INDICATED BASED ON AVAILABLE INFORMATION; HOWEVER, NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS A GUARANTEE THAT THESE UTILITIES ACTUALLY EXIST, THAT THEY ARE IN THE LOCATION INDICATED, OR THAT OTHER UTILITIES DO NOT EXIST. MAKE ALL INVESTIGATIONS NECESSARY TO DETERMINE THE EXISTENCE AND LOCATION OF EXISTING UTILITIES. PAY FOR ANY DAMAGE TO AND MAINTENANCE AND PROTECTION OF EXISTING UTILITIES.				12. THE AREAS ALONG TINKER CREEK ARE WITHIN THE REGULATORY 100-YEAR FLOOD PLAIN. FLOOD PROFILES FROM THE FLOOD INSURANCE STUDY OF ROANOKE COUNTY, VIRGINIA AND INCORPORATED AREAS, OCTOBER 15, 1995, ARE INCLUDED IN THE PROJECT MANUAL FOR CONTRACTOR'S INFORMATION. TAKE WHATEVER STEPS ARE NECESSARY TO PROTECT THE WORK AND MAINTAIN SANITARY SEWAGE FLOWS DURING STREAM FLOOD EVENTS.									
4. CONTACT "MISS UTILITY" (1-800-552-7001) A MINIMUM OF 48 HOURS PRIOR TO COMMENCING EXCAVATION.				13. COMPLY WITH THE REQUIREMENTS CONTAINED IN THE PROJECT MANUAL WHEN WORKING IN THE VICINITY OF TINKER CREEK, NORFOLK & WESTERN RAILWAY PROPERTY, PLANTATION PIPELINE FACILITIES, AND ROANOKE REDEVELOPMENT AND HOUSING AUTHORITY PROPERTY.									
5. ARRANGE AND COORDINATE UTILITY POLE AND UNDERGROUND UTILITY RELOCATIONS NECESSARY TO CONSTRUCT THE WORK.				14. THERE MAY BE OTHER CONTRACTORS WORKING IN THE VICINITY OF DALE AVENUE CONCURRENT WITH THIS PROJECT. COORDINATE AND COOPERATE WITH OTHER CONTRACTORS TO FACILITATE THE WORK.									
6. DURING MOBILIZATION, CONSTRUCT TEST PITS TO PHYSICALLY LOCATE THE FOLLOWING: A. EXISTING 42" SANITARY SEWER AT CONTRACT INTERFACE, STATION 67+08. B. EXISTING 42" SANITARY SEWER AT STRUCTURE S28. C. EXISTING 36" SANITARY SEWER AT STRUCTURE S32. D. EXISTING 8" PETROLEUM PIPELINE AT STATION 82+30. E. EXISTING 36" SANITARY SEWER AT STRUCTURE S41-1. F. EXISTING 36" SANITARY SEWER AT STRUCTURE S49. G. EXISTING 24" SANITARY SEWER AT STRUCTURE S57. H. EXISTING 24" SANITARY SEWER AT STRUCTURE S57-1. I. EXISTING 36" SANITARY SEWER AT STRUCTURE S58.				15. AREAS IN THE VICINITY OF THE WORK BETWEEN DALE AVE. AND WISE AVE. WERE USED IN THE PAST AS SANITARY LANDFILLS. IF SOLID WASTE IS ENCOUNTERED, MINIMIZE ITS DISTURBANCE AND IMMEDIATELY CONTACT THE OWNER'S REPRESENTATIVE.									
DETERMINE THE UTILITIES' HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS TIED TO THE PROJECT CONTROL. SUBMIT THIS INFORMATION TO THE OWNERS' REPRESENTATIVE. DO NOT ORDER ANY PIPES OR STRUCTURES UNTIL THIS INFORMATION IS OBTAINED AND SUBMITTED TO THE OWNERS' REPRESENTATIVE.													
7. LOCATE ALL EXISTING UTILITIES WELL IN ADVANCE OF PIPE LAYING TO ALLOW FOR ADJUSTMENTS DUE TO CONFLICTS. HAVE ALL FIELD ADJUSTMENTS APPROVED IN ADVANCE BY THE OWNERS' REPRESENTATIVE.													
8. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND ELEVATIONS AT THE SITE PRIOR TO PROCEEDING WITH WORK.													
9. PROVIDE EFFECTIVE EROSION AND SEDIMENT CONTROL AT ALL TIMES, IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. CONTROL MEASURES INDICATED ARE MINIMUM AND ASSUMES THAT MATERIAL EXCAVATED FROM THE TRENCH IS PLACED ON THE UPHILL SIDE OF THE TRENCH. PROVIDE ADDITIONAL CONTROLS IF MATERIAL EXCAVATED FROM THE TRENCH IS NOT PLACED ON THE UPHILL SIDE OF THE TRENCH, OR IF EFFECTIVE EROSION AND SEDIMENT CONTROL IS NOT MAINTAINED.													