

ABBREVIATIONS

LEGEND

GENERAL NOTES

ABUT	ABUTMENT	PSI	POUNDS PER SQ INCH
ADD	ADDITIONAL	PT	POINT OF TANGENT
ADJ	ADJACENT	PVC	POINT OF VERTICAL CURVE
AGGR	AGGREGATE	PVI	POLYVINYL CHLORIDE
AHR	ANCHOR	PVMT	POINT OF VERTICAL INTERSECTION
AL	ALUMINUM	PVT	POINT OF VERTICAL TANGENT
ALT	ALTERNATE	R	RADIUS
APPROX	APPROXIMATE	RT	RIGHT
AWWA	AMERICAN WATER WORKS ASSOCIATION	R/W	RIGHT OF WAY
BIT	BITUMINOUS	RD	ROOF DRAIN, ROAD
BL	BASE LINE	RDCR	REDUCER
BLDG	BUILDING	REINF	REINFORCE, REINFORCEMENT
BM	BENCH MARK	REQD	REQUIRED
BOT	BOTTOM	REV	REVISION
B	BRICK	S	SANITARY SEWER, SOUTH, STORY
BSMT	BASEMENT	SAN	SANITARY
CTOC C/C	CENTER TO CENTER	SCH	SCHEDULE
C & G	CURB & GUTTER	SD	STORM DRAIN
CAP	CAPACITY	SECT	SECTION
CF	CUBIC FEET	SH	SHEET
CY	CUBIC YARD	SIM	SIMILAR
CI	CAST IRON	SPEC	SPECIFICATION
CIRC	CIRCULAR	SQ	SQUARE
CL	CENTER LINE	SST	STAINLESS STEEL
CLR	CLEAR	ST	STREET
CHP	CORRUGATED METAL PIPE	STA	STATION
CND	CONDUIT	STD	STANDARD
CO	CLEAN OUT	STL	STEEL
COL	COLUMN	SURF	SURFACE
CONC	CONCRETE	SER	SERVICE
CONN	CONNECT, CONNECTION	SUR	SURVEY
CONT	CONTINUOUS	TDC	TURNED DOWN CURB
CONTR	CONTRACTOR	TELE	TELEPHONE
CTR	CENTER	TEMP	TEMPORARY
CULV	CULVERT	THK	THICK
D	DEPTH DEGREE OF CURVE	TV	TELEVISION
DEPT	DEPARTMENT	TW	TOP OF WALL
DET	DETAIL	TYP	TYPICAL
DI	DROP INLET, DUCTILE IRON	UG	UNDERGROUND
DIA	DIAMETER	V	VALVE
DIM	DIMENSION	VC	VERTICAL CURVE
DISC	DISCONNECT	VERT	VERTICAL
DNH	DROP MANHOLE	VOL	VOLUME
DN	DOWN	VDHT	VIRGINIA DEPT OF HIGHWAYS AND TRANSPORTATION
DR	DRIVE	W/	WITH
DWL	DWELLING	W/O	WITHOUT
DWG	DRAWING	WD	WOOD
E	EACH	WL	WATER LINE
EA	EACH FACE	WS	WATER SURFACE
EJ	EXPANSION JOINT	WT	WATER TIGHT
ELEV	ELEVATION	WWF	WELDED WIRE FABRIC
ELEC	ELECTRIC, ELECTRICAL	WVDH	WEST VIRGINIA DEPT OF HIGHWAYS
ENGR	ENGINEER		
ENR	ENTRANCE		
EOL	END OF LINE		
EP	EDGE OF PAVEMENT		
EQ	EQUAL		
EQPT	EQUIPMENT		
EW	EACH WAY, ENDHALL		
EXST	EXISTING		
EXT	EXTERIOR		
F	FRAME		
FD	FLOOR DRAIN		
FDN	FOUNDATION		
FES	FLARED END SECTION		
FIG	FIGURE		
FIN	FINISH		
FL	FLOOR		
FLEX	FLEXIBLE		
FLG	FLANGE		
FT	FOOT		
FTG	FOOTING		
GAL	GALLON		
GALV	GALVANIZED		
GND	GROUND		
GOVT	GOVERNMENT		
GPM	GALLONS PER MINUTE		
GV	GATE VALVE		
HB	HOSE BIB		
HORZ	HORIZONTAL		
HP	HORSEPOWER		
HPT	HIGH POINT		
HYD	HYDRANT		
ID	INSIDE DIAMETER		
IN	INCH		
INVT	INVERT		
JB	JUNCTION BOX		
L	LENGTH		
LF	LINEAL FOOT		
LP	LOW POINT		
LT	LEFT		
MATL	MATERIAL		
MAX	MAXIMUM		
MFR	MANUFACTURER		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MON	MONUMENT		
N & C	NAIL & CAP		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NYS	NOT TO SCALE		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
OPNG	OPENING		
OPP	OPPOSITE		
PC	POINT OF CURVE		
PCC	POINT OF COMPOUND CURVE		
PI	POINT OF INTERSECTION		
PIV	POST INDICATOR VALVE		
PL	PLATE, PROPERTY LINE		
POT	POINT ON TANGENT		
PERF	PERFORATED		
POL	POINT ON LINE		
PRC	POINT OF REVERSE CURVE		

EXISTING	NEW	DESCRIPTION
		BUILDING WITH PORCH OR STOOP
		FOUNDATION ONLY
		CONTOUR, CONTOUR WITH ELEVATION
		SPOT ELEVATION
		CONCRETE CURB
		CONCRETE CURB & GUTTER
		CONCRETE WALK OR SLAB
		PAVEMENT
		UNPAVED OR GRAVEL ROAD
		TREE LINE
		TREE OR SHRUB
		FENCE AND GATE
		CENTERLINE OF DITCH OR SWALE
		PROPERTY LINE
		CENTERLINE OR BASELINE
		LIMIT OF WORK LINE
		FIELD SURVEY TRAVERSE POINT
		P.C. OR P.T.
		GEOLOGIC BORE HOLE
		STORM DRAIN AND ENDWALL
		SANITARY SEWER
		GAS MAIN OR SERVICE LINE
		WATER MAIN OR SERVICE LINE
		ELECTRICAL LINE
		PIPE FITTINGS AND REACTION BLOCKING
		FIRE HYDRANT
		GATE VALVE
		CLEANOUT
		MANHOLE
		DROP INLET (CURB AND GRATING TYPES)
		G.M. - GAS METER, W.M. - WATER METER
		TELEPHONE LINE
		TELEPHONE POLE, GUY AND ANCHOR
		POWER POLE, GUY AND ANCHOR
		TELEPHONE PEDESTAL
		BURIED TELEPHONE VAULT
		ABANDON OR REMOVE
		PAVED DITCH
		DRIVENWAY CULVERT
		CULVERT WITH FLARED END SECTION
		IRON PIN OR PINCH PIPE
		EROSION CONTROL STONE
		STRAW BALES AND SILT TRAP
		STORM DRAIN INLET PROTECTION
		TEMPORARY DIVERSION DIKE
		TEMPORARY SEDIMENT TRAP
		TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
		STRAW BALE BARRIER
		RIPRAP
		FORCE MAIN

- THESE PLANS WERE TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS FOR THE ROANOKE SEWAGE TREATMENT PLANT AND ADDITIONS TO THE ROANOKE SEWAGE TREATMENT PLANT. THE WORK UNDER THIS CONTRACT INCLUDES THE REPLACEMENT OF THE PURIFIED GAS PIPE (LIMITS INDICATED ON DRAWINGS) & ASSOCIATED APPURTENANCES.
- THE LOCATION OF EXISTING UTILITIES, INCLUDING UNDERGROUND UTILITIES, IS INDICATED ON THE DRAWINGS INsofar AS THEIR EXISTENCE AND LOCATION WERE KNOWN AT THE TIME OF PREPARATION OF THE DRAWINGS. HOWEVER, NOTHING IN THESE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS A GUARANTEE THAT SUCH UTILITIES ARE IN THE LOCATION INDICATED OR THAT THEY ACTUALLY EXIST, OR THAT OTHER UTILITIES ARE NOT WITHIN THE AREA OF OPERATIONS. THE CONTRACTOR SHALL MAKE ALL NECESSARY INVESTIGATIONS TO DETERMINE THE EXISTENCE AND LOCATIONS OF SUCH UTILITIES. THE CONTRACTOR SHALL PAY FOR ANY DAMAGE TO AND FOR MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES. PARTICULAR CARE SHALL BE TAKEN IN WORKING AROUND THE LARGE, HIGH PRESSURE GAS MAINS AND THE LARGE DIAMETER WATER PIPES.
- THE CONTRACTOR IS DIRECTED TO DIG AND LOCATE ALL UTILITIES, IN ADVANCE OF THE PIPELAYING, TO ALLOW FOR ADJUSTMENTS, DUE TO CONFLICTS WITH THE UTILITIES, IN THE HORIZONTAL AND VERTICAL LOCATION OF THE PIPE LINE.
- LENGTHS OF LINE INDICATED ON THE DRAWING FOR UTILITY SYSTEMS ARE APPROXIMATE ONLY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR DETERMINING THE EXACT AMOUNT OF PIPING REQUIRED, TO FURNISH A COMPLETE WORKING SYSTEM IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, ACCESSORIES, CONNECTIONS, SUPPORTS, VALVES, AND INCIDENTAL ITEMS NECESSARY TO FULLY COMPLETE THE GAS LINE REPLACEMENT READY FOR USE AND OPERATION BY THE OWNER.
- PIPING SHALL BE FIBERGLASS REINFORCED PIPE AS MANUFACTURED BY A. O. SMITH-INLAND INC. FITTINGS AND ACCESSORIES SHALL BE FURNISHED BY SAME.
- PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND SHALL BE PROPERLY SUPPORTED AND ADEQUATE PROVISIONS SHALL BE MADE FOR EXPANSION, CONTRACTION, SLOPE, AND ANCHORAGE.
- CONTRACTOR SHALL PROVIDE FOR PIPE MANUFACTURERS REPRESENTATIVE TO BE ONSITE AT START-UP OF JOB FOR A MINIMUM OF ONE (1) DAY OR AS REQUIRED TO ASSIST IN THE PROPER PIPE INSTALLATION METHODS.
- ALL CONNECTIONS TO EXISTING SYSTEM SHALL BE MADE WITH FLANGED FITTINGS.



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REVISION	DATE	DESCRIPTION	BY	APP.

DATE
AUG 86
COMM.
658

ABBREVIATIONS, LEGEND, GENERAL NOTES

SHEET

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