

ABBREVIATIONS

ABUT	ABUTMENT	FSI	FOUNDS PER SQ INCH
ADD	ADDITIONAL	PT	POINT OF TANGENT
ADJ	ADJACENT	PVC	POINT OF VERTICAL CURVE
AGGR	AGGREGATE		POLYVINYL CHLORIDE
AHR	ANCHOR	PVI	POINT OF VERTICAL INTERSECTION
ALUM	ALUMINUM	PVMT	PAVEMENT
ALT	ALTERNATE	PVT	POINT OF VERTICAL TANGENT
APPROX	APPROXIMATE	R	RADIUS
AWWA	AMERICAN WATER WORKS ASSOCIATION	RT	RIGHT
BIT	BITUMINOUS	R/W	RIGHT OF WAY
BL	BASE LINE	RD	ROOF DRAIN, ROAD
BLDG	BUILDING	RDCR	REDUCER
BM	BENCH MARK , BEAM	REINF	REINFORCE, REINFORCEMENT
BOTT	BOTTOM	REQD	REQUIRED
B	BRICK	REV	REVISION
BSMT	BASEMENT	S	SANITARY SEWER, SOUTH, STORY
C TO C C/C	CENTER TO CENTER	SAN	SANITARY
C & G	CURB & CUTTER	SCH	SCHEDULE
CAP	CAPACITY	SD	STORM DRAIN
CF	CUBIC FEET	SECT	SECTION
CY	CUBIC YARD	SHEET	SHEET
CI	CAST IRON	SIM	SIMILAR
CIRC	CIRCULAR	SPEC	SPECIFICATION
CL	CENTER LINE	SQ	SQUARE
CLR	CLEAR	SST	STAINLESS STEEL
CMP	CORRUGATED METAL PIPE	ST	STREET
CND	CONDUIT	STA	STATION
CO	CLEAN OUT	STD	STANDARD
COL	COLUMN	STL	STEEL
CONC	CONCRETE	SURF	SURFACE
CONN	CONNECT, CONNECTION	SER	SERVICE
CONT	CONTINUOUS	SUR	SURVEY
CONTR	CONTRACTOR	TDC	TURNED DOWN CURB
CTR	CENTER	TELE	TELEPHONE
CULV	CULVERT	TEMP	TEMPORARY
D	DEPTH DEGREE OF CURVE	THK	THICK
DEPT	DEPARTMENT	TV	TELEVISION
DTL	DETAIL	TV	TOP OF WALL
DI	DROP INLET, DUCTILE IRON	TYP	TYPICAL
DIA	DIAMETER	UG	UNDERGROUND
DIM	DIMENSION	V	VALVE
DISC	DISCONNECT	VC	VERTICAL CURVE
DMH	DROP MANHOLE	VERT	VERTICAL
DN	DOWN	VOL	VOLUME
DR	DRIVE	VDHT	VIRGINIA DEPT OF HIGHWAYS AND
DWL	DWELLING		TRANSPORTATION
DWG	DRAWING	W/	WITH
E	EAST	W/O	WITHOUT
EA	EACH	WD	WOOD
EF	EACH FACE	WL	WATER LINE
EJ	EXPANSION JOINT	WS	WATER SURFACE
ELEV	ELEVATION	WT	WATERTIGHT
ELEC	ELECTRIC, ELECTRICAL	WWF	WELDED WIRE FABRIC
ENGR	ENGINEER	WVDH	WEST VIRGINIA DEPT OF HIGHWAYS
ENTR	ENTRANCE		
EOL	END OF LINE		
EF	EDGE OF PAVEMENT		
EQ	EQUAL		ADDITIONAL ABBREVIATIONS
EQUIP	EQUIPMENT	ABV	ABOVE
EW	EACH WAY, ENDHALL	ABT	ABOVE FINISH FLOOR
EXST	EXISTING	ANC	ANCHOR
EXT	EXTERIOR	BLKG	BLOCKING
F	FRAME	BRG	BEARING
FD	FLOOR DRAIN	CMU	CONCRETE MASONRY UNITS
FDN	FOUNDATION	CR.STONE	CRUSHED STONE
FES	FLARED END SECTION	DS	DOWN SPOUT
FIG	FIGURE	FUT	FUTURE
FIN	FINISH	JT	JOINT
FL	FLOOR	HM	HOLLOW METAL
FLEX	FLEXIBLE	INSUL	INSULATION
FLG	FLANGE	MAS	MASONRY
FT	FOOT	PER	PERIMETER
FTG	FOOTING	PERP	PERPENDICULAR
GAL	GALLON	PLYWD	PLYWOOD
GALV	GALVANIZED	SHTG	SHEETING
GND	GROUND	SYMM	SYMMETRICAL
GOVT	GOVERNMENT	SPECs	SPECIFICATIONS
GPM	GALLONS PER MINUTE	TRTD	TREATED
GV	GATE VALVE	VAP.BAR.	VAPOR BARRIER
HB	HOSE BIBB		
HOR	HORIZONTAL		
HP	HORSEPOWER		SYMBOLS
HPT	HIGH POINT	@	AT
HYD	HYDRANT	#	AND
ID	INSIDE DIAMETER	∠	ANGLE
IN	INCH	⌒	PLATE
INVT	INVERT	⊕	CENTERLINE
JB	JUNCTION BOX	⊙	ROUND
L	LENGTH	⊞	SQUARE
LF	LINEAL FOOT	°	DEGREE ANGLE
LP	LOW POINT		
LT	LEFT		
MATL	MATERIAL		
MAX	MAXIMUM		
MFOR	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		

LEGEND

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)
GM WM	GM WM	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
		DRIVEWAY CULVERT
		CULVERT WITH FLARED END SECTION
		IRON PIN OR PINCH PIPE
EC-1		EROSION CONTROL STONE
		STRAW BALES AND SILT TRAP
IP		STORM DRAIN INLET PROTECTION
DD		TEMPORARY DIVERSION DIKE
ST		TEMPORARY SEDIMENT TRAP
CE		TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
STB		STRAW BALE BARRIER
RR		RIPRAP
FM		FORCE MAIN




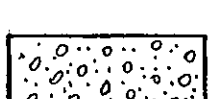
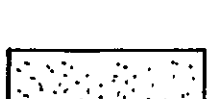


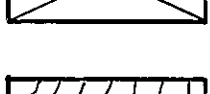
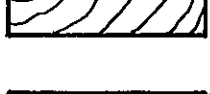
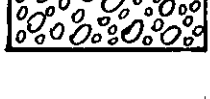
GENERAL NOTES

GENERAL NOTES

1. SURVEY INFORMATION OBTAINED FROM TOPOGRAPHIC SURVEY DATED OCTOBER 24, 1985 FURNISHED BY WHM ASSOCIATES, P.C., SALEM, VIRGINIA.
2. BENCH MARK LOCATED AT FIRE HYDRANT ON NORTHEAST PROPERTY CORNER. ELEVATION EQUALS 1195.11 BASED ON USGS DATUM.
3. 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.
4. 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.
5. THE TAP OF EXISTING 12" WATER MAIN WILL BE MADE BY THE CITY OF ROANOKE. THE CITY WILL PROVIDE AND INSTALL A 12" GATE VALVE AND A 12" STUBOUT WITH A 12" CAP. THE CONTRACTOR SHALL NOTIFY THE CITY OF ROANOKE A MINIMUM OF THREE (3) WEEKS PRIOR TO REQUIRED CONNECTION DATE.
6. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION DESIGN STANDARDS.
7. CONTRACTOR SHALL COORDINATE FINISHED PAVEMENT GRADES WITH ELEVATIONS AND LOCATIONS OF EXISTING MANHOLE TOPS AND ROADWAYS.
8. TRAFFIC SIGN SHALL BE RELOCATED BY THE CITY OF ROANOKE. THE CONTRACTOR SHALL NOTIFY THE CITY A MINIMUM OF TWO (2) WEEKS PRIOR TO REQUIRED REMOVAL DATE.

EROSION CONTROL NOTES -

1. ALL SOIL EROSION CONTROL MEASURES SHALL BE CARRIED OUT IN COMPLIANCE WITH "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", 1980
2. GRADED PORTIONS OF SITE NOT TO BE CONSTRUCTED UPON SHALL BE TOPSOILED AND SEEDED WITHIN THIRTY DAYS OF FINAL GRADING.
3. WHEREVER POSSIBLE, NATURAL VEGETATION SHALL BE LEFT INTACT TO AID IN EROSION CONTROL.
4. ALL DROP INLETS SHALL BE PROTECTED BY STRAWBALE DROP INLET SEDIMENT FILTERS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES.
6. THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL HAVE A MINIMUM 6" DEPTH OF STONE CONSISTING OF V.D.H. & T. NO. 1 AGGREGATE.
7. ADJOINING PUBLIC STREETS ***SHALL BE CLEANED BY THE END OF EACH WORKING DAY, BY THE CONTRACTOR.***

	METAL
	BRICK
	CONCRETE MASONRY
	CONCRETE
	GROUT OR FINISHED CONCRETE
	INSULATION (RIGID)
	WOOD BLOCKING
	FINISHED WOOD OR PLYWOOD
	GRAVEL OR STONE
	EARTH

RECORD DRAWING



SUITE 401, 707 S. JEFFERSON STREET, ROANOKE, VIRGINIA 24011, (703) 345-9342

[illegible]

DATE
DEC. 85

COMM.
565

FRANKLIN ROAD BOOSTER PUMPING STATION	SHEET
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ABBREVIATIONS, LEGEND, GENERAL NOTES

SHEET

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