

ABBREVIATIONS

ABAN	ABANDON, ABANDONED	MECH	MECHANICAL
ABUT	ABUTMENT	MFR	MANUFACTURER
ADJ	ADJACENT	MH	MANHOLE
AGGR	AGGREGATE	MIN	MINIMUM
ANC	ANCHOR	MJ	MECHANICAL JOINT
APPROX	APPROXIMATE	MON	MONUMENT
BIT	BITUMINOUS	MTL	METAL
BJ	BELL JOINT	N & C	NAIL AND CAP
BL	BASE LINE	NIC	NOT IN CONTRACT
BEG	BEGIN, BEGINNING	NO	NUMBER
BLDG	BUILDING	NPW	NON POTABLE WATER
BM	BENCH MARK	NTS	NOT TO SCALE
BSP	BLACK STEEL PIPE	OC	ON CENTERS
BV	BUTTERFLY VALVE	OD	OUTSIDE DIAMETER
BVCE	BEGIN VERTICAL CURVE ELEVATION	PVMT	PAVEMENT
BVCS	BEGIN VERTICAL CURVE STATION	PC	POINT OF CURVE
C & G	CURB AND GUTTER	PCC	POINT OF COMPOUND CURVE
CI	CAST IRON	PER	PERIMETER
CL	CENTER LINE	PERF	PERFORATED
CONST	CONSTRUCTION	PERP	PERPENDICULAR
CMP	CORRUGATED METAL PIPE	PI	POINT OF INTERSECTION
CMU	CONCRETE MASONRY UNITS	PL	PLATE, PROPERTY LINE
CND	CONDUIT	POL	POINT ON LINE
CO	CLEANOUT	PT	POINT OF TANGENCY
COMB	COMBINATION	POT	POINT ON TANGENT
CONC	CONCRETE (PORTLAND CEMENT)	PP	POWER POLE
CONN	CONNECT, CONNECTION	PRC	POINT OF REVERSE CURVE
CONTR	CONTRACTOR	PSI	POUNDS PER SQUARE INCH
CONV	CONVEYOR	PT	POINT OF TANGENT
COR	CORNER	PVC	POLYVINYL CHLORIDE
CR STONE	CRUSHED STONE	PVI	POINT OF VERTICAL INTERSECTION
CTR	CENTER	PUE	PUBLIC UTILITY EASEMENT
CULV	CULVERT	R	RADIUS, RISER
D	DEPTH OR DEGREE OF CURVE	RR	RAILROAD
DE	DRAINAGE EASEMENT	RCP	REINFORCED CONCRETE PIPE
DI	DROP INLET, DUCTILE IRON	RD	ROAD
DIA	DIAMETER	RDCR	REDUCER
DIM	DIMENSION	REINF	REINFORCE, REINFORCEMENT
DISC	DISCONNECT	REF	REFERENCE
DMH	DROP MANHOLE	REL	RELOCATED
DN	DOWN	REQD	REQUIRED
DTL	DETAIL	REV	REVISION
DW, D/W	DRIVEWAY	RTE	ROUTE
DWL	DWELLING	RT	RIGHT
DWG	DRAWING	R/W	RIGHT OF WAY
EA	EACH	SS	SANITARY SEWER
E.B.L.	EASTBOUND LANE	SAN	SANITARY
EL. ELEV	ELEVATION	S/W	SIDEWALK
ELEC	ELECTRICAL	SD	STORM DRAIN
ENGR	ENGINEER	SE	SLOPE EASEMENT
ENTR	ENTRANCE	SECT	SECTION
EOL	END OF LINE	SER	SERVICE
EP	EDGE OF PAVEMENT	SH	SHEET
EQ	EQUAL	SPEC	SPECIFICATION
EQPT	EQUIPMENT	SPECS	SPECIFICATIONS
EVCE	END VERTICAL CURVE ELEVATION	SQ	SQUARE
EVCS	END VERTICAL CURVE STATION	SSTL	STAINLESS STEEL
EW	EACH WAY, ENDWALL	STR	STREET
EXIST	EXISTING	STA	STATION
FES	FLARED END SECTION	STD	STANDARD
FF	FINISH FLOOR	STL	STEEL
FFE	FINISHED FLOOR ELEVATION	STRUCT	STRUCTURAL
FIG	FIGURE	SUR	SURVEY
FL	FLOOR	T & B	TOP AND BOTTOM
FLEX	FLEXIBLE	TELE	TELEPHONE
FLG	FLANGE	TEMP	TEMPORARY
FT	FOOT	THK	THICK
FTG	FOOTING	TP	TELEPHONE POLE
FUT	FUTURE	TRTD	TREATED
GAL	GALLON	TV	TELEVISION
GALV	GALVANIZED	TW	TOP OF WALL
GAR	GARAGE	TYP	TYPICAL
GND	GROUND	UG	UNDERGROUND
GR	GRAVEL	UON	UNLESS OTHERWISE NOTED
GOVT	GOVERNMENT	U.S.C.&G.S	UNITED STATES COAST AND GEODETIC SURVEY
GPM	GALLONS PER MINUTE	V. VAL	VALVE, VENT
GRTO	GRATING	VAR	VARIABLE
GV	GATE VALVE	VC	VERTICAL CURVE
HB	HORIZONTAL BEND	VERT	VERTICAL
H&T	HUB AND TAC	VESCR	VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS
HORIZ	HORIZONTAL	VOL	VOLUME
HPT	HIGH POINT	VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION
HYD	HYDRANT	V.S.D.	VERTICAL SIGHT DISTANCE
ID	INSIDE DIAMETER	W.B.L.	WESTBOUND LANE
IN	INSULATION	W	WIDE FLANGE, WIDE, WASTE, WATER
INSUL	INVERT	W/	WITH
INV	IRON PIN (FOUND OR SET NOTED)	W/	WITHOUT
IP	LENGTH, LONG	WS	WATER SURFACE
L	LINEAL FOOT	WT	WATERTIGHT, WEIGHT
LG	LONG	WVDH	WEST VIRGINIA DEPARTMENT OF HIGHWAYS
LP	LIGHT POLE		
LR	LONG RADIUS		
LT	LEFT		
MAS	MASONRY		
MATL	MATERIAL		
MAX	MAXIMUM		
MB	MAIL BOX		
MEL	MINIMUM BUILDING LINE		

LEGEND / SYMBOLS

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
		CONSTRUCTION EASEMENT
		PERMANENT EASEMENT
		TREE LINE
		TREE OR SHRUB
		FENCE (EXISTING OR PROPOSED NOTED)
		CENTERLINE CREEK, SWALE, DITCH
		PROPERTY LINE
		CENTERLINE OR BASELINE
		FIELD SURVEY TRAVERSE POINT
		P.C. OR P.T.
		GEOLOGIC BORE HOLE
		BENCH MARK (EXISTING OR SET NOTED)
		STORM DRAIN AND ENDWALL
		SANITARY SEWER
		FORCE MAIN
		GAS MAIN OR SERVICE LINE
		WATER MAIN OR SERVICE LINE
		OVERHEAD ELECTRICAL LINE
		OVERHEAD TELEPHONE LINE
		UNDERGROUND ELECTRICAL LINE
		UNDERGROUND TELEPHONE LINE
		PIPE FITTINGS
		FIRE HYDRANT
		GATE VALVE
		CLEANOUT
		MANHOLE
		DROP INLET (CURB AND GRATING TYPES)
		WM - WATER METER
		DWM - DOUBLE WATER METER
		TELEPHONE POLE, GUY AND ANCHOR
		POWER POLE, GUY AND ANCHOR
		LIGHT POLE
		TELEPHONE PEDESTAL
		BURIED TELEPHONE VAULT
		PAVED DITCH
		STORM PIPE (SIZE / TYPE NOTED)
		CULVERT WITH FLARED END SECTION
		AIR RELEASE VALVE / VAULT ASSEMBLY
		BLOW OFF VALVE / VAULT ASSEMBLY
		STEEL ENCASEMENT
		CONCRETE ENCASEMENT
		ABANDON OR REMOVE
		LIMITS OF CONSTRUCTION

GENERAL NOTES

THE LOCATION OF EXISTING UTILITIES, INCLUDING UNDERGROUND UTILITIES, IS INDICATED ON THE DRAWINGS IN SO FAR AS THEIR EXISTENCE AND LOCATION WERE KNOWN AT THE TIME OF PREPARATION OF THESE 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.

EXISTING WATER LINE LOCATIONS BOTH HORIZONTAL AND VERTICAL ARE APPROXIMATE. THE LOCATION IS NOT THE RESULT OF A FIELD SURVEY.

THE CONTRACTOR IS DIRECTED TO DIG AND LOCATE ALL UTILITIES IN ADVANCE OF PIPELAYING TO ALLOW FOR ADJUSTMENTS DUE TO CONFLICTS WITH EXISTING UTILITIES. SHOULD A CONFLICT ARISE THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY.

THE CONTRACTOR IS REQUIRED TO NOTIFY "MISS UTILITY" AT 1-800-552-7001 AT LEAST TWO, BUT NOT MORE THAN TEN, WORKING DAYS IN ADVANCE OF CONSTRUCTION.

THE PLANS AND SUPPLEMENTARY DRAWNGS SHALL NOT BE SCALED AND CONTRACTORS MUST VERIFY ALL DIMENSIONS AND ELEVATIONS AT THE SITE PRIOR TO PROCEEDING WITH THE WORK.

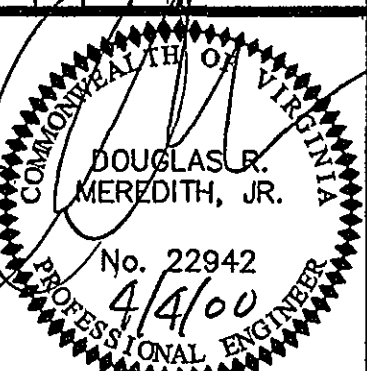
EXISTING TOPOGRAPHICAL INFORMATION TAKEN FROM:

A. FIELD SURVEY PERFORMED BY LMW, P.C.

ALL EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, SECOND EDITION, 1992. THE MEASURES CONTAINED THEREIN SHALL BE CONSIDERED THE MINIMUM NEEDED TO INSURE PROPER EROSION AND SEDIMENT CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ANY MEASURES REQUIRED BY THE CITY OF ROANOKE AND/OR SITE CONDITIONS TO ASSURE THAT ON-AND OFF-SITE EROSION IS MINIMIZED, THAT NO SEDIMENT-LADEN RUNOFF LEAVES THE SITE AND, AS NEAR AS PRACTICAL, A NEAT & ORDERLY CONSTRUCTION SITE IS MAINTAINED.

CHESTERTON STREET SANITARY  
SEWER RAPLACEMENT PROJECT  
CITY OF ROANOKE, VIRGINIA

Abbreviations, Legend, & General Notes



Designed By	DRM
Drawn By	
Checked By	
Approved By	DRM
Submitted By	DRM
Drawing	2039ABRV.DWG
Date	03/15/00
Scale	NONE
Commission No.	2039
Sheet	3 of 5

"RECORD DRAWING"  
Nov. 14, 2000