

# ABBREVIATIONS

ABUT	ABUTMENT	P1V	POST INDICATOR VALVE
ABV	ABOVE	PL	PLATE, PROPERTY LINE
AFB	ABOVE FINISH FLOOR	PLYMD	PLYWOOD
ADD	ADDITIONAL	POT	POINT ON TANGENT
ADJ	ADJACENT	PERF	PERFORATED
AGOR	AGGREGATE	POL	POINT ON LINE
AHR	ANCHOR	PRC	POINT OF REVERSE CURVE
AHC	ANCHOR	P81	POUNDS PER 80 INCH
ALUH	ALUMINUM	PT	POINT OF TANGENT
ALT	ALTERNATE	PVC	POINT OF VERTICAL CURVE
APPROX	APPROXIMATE	PVI	POLYVINYL CHLORIDE
AWWA	AMERICAN WATER WORKS ASSOCIATION	PVHT	POINT OF VERTICAL INTERSECTION
BL	BASE LINE	PVT	POINT OF VERTICAL TANGENT
BLDG	BUILDING	R	RADIUS
BLKG	BLOCKING	RT	RIGHT
BM	BENCH MARK, BEAM	R/W	RIGHT OF WAY
BOTT	BOTTOM	RO	ROOF DRAIN, ROAD
B	BRICK	ROGR	REDUCER
BRG	BEARING	REINF	REINFORCE, REINFORCEMENT
BSMT	BASEMENT	REOD	RECHEDULE
C TO C O/C	CENTER TO CENTER	REV	REVISION
C & O	CURB & GUTTER	S	SANITARY SEWER, SOUTH, STORY
CAP	CAPACITY	SAN	SANITARY
CF	CUBIC FEET	SCH	SCHEDULE
CY	CUBIC YARD	SD	STORM DRAIN
CI	CAST IRON	SECT	SECTION
CIRC	CIRCULAR	SHT	SHEET
CL	CENTER LINE	SHTD	SHEETING
CLR	CLEAR	SH	SIMILAR
CMP	CORRUGATED METAL PIPE	SPEC	SPECIFICATION
CND	CONDUIT	SPEC8	SPECIFICATIONS
CO	CLEAN OUT	SS	SQUARE
COL	COLUMN	SST	STAINLESS STEEL
CONC	CONCRETE	ST	STREET
CNG	CONCRETE MASONRY UNITS	STA	STATION
CONN	CONNECT, CONNECTION	STD	STANDARD
CONT	CONTINUOUS	STL	STEEL
CONTR	CONTRACTOR	SURF	SURFACE
CTR	CENTER	SER	SERVICE
CR, STONE	CRUSHED STONE	SUR	SURVEY
CULV	CULVERT	SYMM	SYMMETRICAL
D	DEPTH DEGREE OF CURVE	TDC	TURNED DOWN CURB
DEPT	DEPARTMENT	TELE	TELEPHONE
DTL	DETAIL	TEMP	TEMPORARY
D1	DROP INLET, DUCTILE IRON	THK	THICK
DIA	DIAMETER	TV	TELEVISION
DIM	DIMENSION	TV	TOP OF WALL
DISCD	DISCONNECT	TRTD	TREATED
DMH	DROP MANHOLE	TYP	TYPICAL
DN	DOWN	UG	UNDERGROUND
DN	DOWN SPOUT	V	VALVE
DR	DRIVE	VAP, BAR.	VAPOR BARRIER
DWL	DWELLING	VC	VERTICAL CURVE
DWO	DRAWING	VERT	VERTICAL
E	EAST	VOL	VOLUME
EA	EACH	VOHT	VIRGINIA DEPT OF HIGHWAYS AND TRANSPORTATION
EF	EACH FACE	W	WITH
EJ	EXPANSION JOINT	W/O	WITHOUT
ELEV	ELEVATION	W	WOOD
ELEC	ELECTRIC, ELECTRICAL	WD	WATER LINE
ENGR	ENGINEER	WS	WATER SURFACE
ENTR	ENTRANCE	WT	WATERTIGHT
EOL	END OF LINE	WFB	WELOD WIRE FABRIC
EP	EDGE OF PAVEMENT	WHD	WEST VIRGINIA DEPT OF HIGHWAYS
EQ	EQUAL		
EQUIP	EQUIPMENT		
EV	EACH WAY, ENDWALL		
EXIST	EXISTING		
EXT	EXTERIOR	SYMBOLS	
F	FRAME		
FD	FLOOR DRAIN		
FON	FOUNDATION	*	AT
FES	FLARED END SECTION	Δ	AND
F1G	FIGURE	∠	ANGLE
FIN	FINISH	ε	PLATE
FL	FLOOR	ε	CENTERLINE
FLEX	FLEXIBLE	φ	ROUND
FLO	FLANGE	□	SQUARE
FT	FOOT	○	DEGREE ANGLE
FTG	FOOTING		
FUT	FUTURE		
GAL	GALLON		
GALV	GALVANIZED		
GND	GROUND		
GOVT	GOVERNMENT		
GPM	GALLONS PER MINUTE		
GV	GATE VALVE		
HB	HOLLOW METAL		
HN	HOSE END		
HOR	HORIZONTAL		
HP	HORSEPOWER		
HPT	HIGH POINT		
HYD	HYDRANT		
ID	INSIDE DIAMETER		
IN	INCH		
INSUL	INSULATION		
INVT	INVERT		
JT	JOINT		
JB	JUNCTION BOX		
L	LENGTH		
LF	LINEAL FOOT		
LP	LOW POINT		
LT	LEFT		
MAG	MASONRY		
MATL	MATERIAL		
MAX	MAXIMUM		
MFOR	MANUFACTURER		
MR	MANHOLE		
MIN	MINIMUM		
MISO	MISCELLANEOUS		
MON	MONUMENT		
N & C	NAIL & CAP		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NTS	NOT TO SCALE		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
OPNG	OPENING		
OPP	OPPOSITE		
PER	PERIMETER		
PERP	PERPENDICULAR		
PC	POINT OF CURVE		
PCC	POINT OF COMPOUND		
P1	POINT OF INTERSECTION		

# LEGEND

## EXISTING

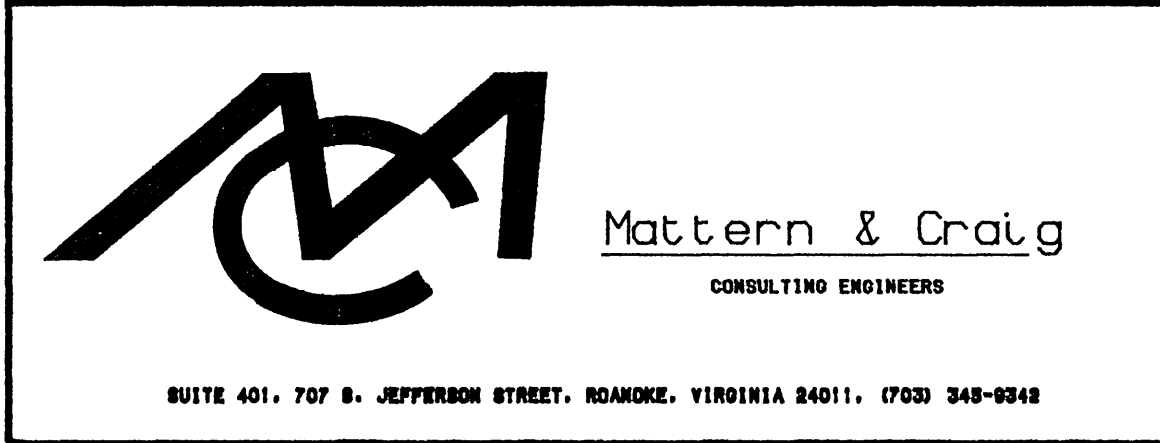
## NEW

## 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 (DINKO TREE)  
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  
BURIED TELEPHONE VAULT  
ABANDON OR REMOVE  
PAVED DITCH  
DRIVEWAY 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  
ROADWAY LIGHTING POLE  
F-DEMOTES FUTURE (NOT IN THIS CONTRACT)  
ELECTRICAL HANDHOLE  
ROADWAY LIGHTING CXTS. IN CONDUIT  
CONDUIT NUMBER

# GENERAL NOTES

1. EXISTING TOPOGRAPHIC INFORMATION IS TAKEN FROM:
  - a. AERIAL PHOTOGRAPHY TAKEN BY AERIAL DATA REDUCTION ASSOCIATES, INC. IN FEBRUARY, 1983.
2. ELEVATIONS ARE USGS DATUM, UNLESS OTHERWISE INDICATED.
3. GRID COORDINATES SHOWN ARE VIRGINIA STATE PLANE COORDINATE SYSTEM.
4. BEARINGS ARE FROM TRUE NORTH.
5. SOIL BORINGS ARE FROM FROEHLING & ROBERTSON, INC., MARCH 16, 1983.
6. 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 WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
7. SANITARY SEWER FROM MANHOLE # 12 TO SANITARY MANHOLE # 103 INCLUDING MANHOLE # 103, IS NOT PART OF THIS CONTRACT. IT WILL BE INSTALLED BY THE CITY OF ROANOKE. SANITARY SEWER FROM MANHOLE # 103 TO SANITARY MANHOLE # 108 IS INCLUDED IN THIS CONTRACT. ADDENDUM NUMBER 1 WILL INCLUDE A REVISED BID FORM AND SPECIFICATIONS.
8. ALL MANHOLE, HANDHOLE TOPS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO PLACING PAVEMENT SURFACE COURSE.
9. ACCESS TO THE ORVIS CONSTRUCTION SITE SHALL BE MAINTAINED AT ALL TIMES.
10. ON SITE BORROW AREAS SHALL BE DESIGNATED ON THE ROANOKE CENTRE FOR INDUSTRY AND TECHNOLOGY SITE BY THE CITY OF ROANOKE.
11. EROSION CONTROL SHOWN IS A MINIMUM. CONTRACTOR SHALL COMPLY WITH CITY OF ROANOKE EROSION AND SEDIMENT CONTROL ORDINANCES.
12. BENCHMARK IS SET ON TOP OF DROP INLET, LOCATED AT STA. 19+87 ON NORTHEAST SIDE OF BLUE HILLS DRIVE, N.E. ROAD 'A', ELEV. 1045.38.
13. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION DESIGN STANDARDS.
14. DIMENSIONS SHOWN ON PLANS TO CURB AND GUTTER ARE TO FACE OF CURB. DIMENSIONS SHOWN TO MANHOLES AND CURB INLETS ARE TO CENTERLINE OF THE STRUCTURE.
15. WATER LINE IS NOT PART OF THIS CONTRACT. IT WILL BE INSTALLED BY THE CITY OF ROANOKE AND THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF THE ROAD WORK WITH THE CITY OF ROANOKE CONSTRUCTION.
16. ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-4 EXCEPT WHERE OTHERWISE NOTED. VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS DATED JAN. 1, 1986



DESIGNED:	RSM
CHECKED:	WJJ
APPROVED:	SWH



REVISION	DATE	DESCRIPTION	BY	APP.

DATE  
**JAN 87**

COMM.  
**677E**

ROANOKE CENTRE FOR INDUSTRY AND TECHNOLOGY
CITY OF ROANOKE, VIRGINIA
ABBREVIATIONS, LEGEND AND GENERAL NOTES

SHEET

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