

# ABBREVIATIONS

|          |                                  |        |                                              |
|----------|----------------------------------|--------|----------------------------------------------|
| ABUT     | ABUTMENT                         | PSI    | POUNDS PER SQ INCH                           |
| ADD      | ADDITIONAL                       | PT     | POINT OF TANGENT                             |
| ADJ      | ADJACENT                         | PVC    | POINT OF VERTICAL CURVE                      |
| AGOR     | AGGREGATE                        | PVI    | POLYVINYL CHLORIDE                           |
| AHR      | ANCHOR                           | PVMT   | POINT OF VERTICAL INTERSECTION               |
| AL       | ALUMINUM                         | PVT    | PAVEMENT                                     |
| ALT      | ALTERNATE                        | R      | POINT OF VERTICAL TANGENT                    |
| APPROX   | APPROXIMATE                      | RT     | RADIUS                                       |
| AWWA     | AMERICAN WATER WORKS ASSOCIATION | R/W    | RIGHT OF WAY                                 |
| BIT      | BITUMINOUS                       | RD     | ROOF DRAIN, ROAD                             |
| BLDG     | BUILDING                         | REDUC  | REDUCER                                      |
| BM       | BENCH MARK                       | REINFC | REINFORCE, REINFORCEMENT                     |
| BOT      | BOTTOM                           | REQD   | REQUIRED                                     |
| B        | BRICK                            | REV    | REVISION                                     |
| BSMT     | BASEMENT                         | S      | SANITARY SEWER, SOUTH, STORY                 |
| C/O, C/C | CENTER TO CENTER                 | SAN    | SANITARY                                     |
| C & G    | CURB & GUTTER                    | SCH    | SCHEDULE                                     |
| CAP      | CAPACITY                         | SD     | STORM DRAIN                                  |
| CF       | CUBIC FEET                       | SECT   | SECTION                                      |
| CY       | CUBIC YARD                       | SH     | 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    | TURNDOWN CURB                                |
| CTR      | CENTER                           | TELE   | TELEPHONE                                    |
| CULV     | CULVERT                          | TEMP   | TEMPORARY                                    |
| D        | DEPTH DEGREE OF CURVE            | THK    | THICK                                        |
| DEPT     | DEPARTMENT                       | TV     | TELEVISION                                   |
| DET      | DETAIL                           | TW     | 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 TRANSPORTATION |
| DWL      | DWELLING                         | W      | WITH                                         |
| DWG      | DRAWING                          | W/O    | WITHOUT                                      |
| E        | EAST                             | WD     | WOOD                                         |
| EA       | EACH                             | WL     | WATER LINE                                   |
| EF       | 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               |
| ENCR     | ENGINEER                         |        |                                              |
| ENTR     | ENTRANCE                         |        |                                              |
| EOL      | END OF LINE                      |        |                                              |
| EP       | EDGE OF PAVEMENT                 |        |                                              |
| EQ       | EQUAL                            |        |                                              |
| EQPT     | EQUIPMENT                        |        |                                              |
| EW       | EACH WAY, ENDWALL                |        |                                              |
| 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                           |        |                                              |
| NTS      | NOT TO SCALE                     |        |                                              |
| OC       | ON CENTER                        |        |                                              |
| OD       | OUTSIDE DIAMETER                 |        |                                              |
| OPNG     | OPENING                          |        |                                              |
| OPF      | 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           |        |                                              |

6-8-87 met Jim Jones and Doug Cook on proj looked at S.D. sewer & water lines - Jim will get permits that need to be corrected

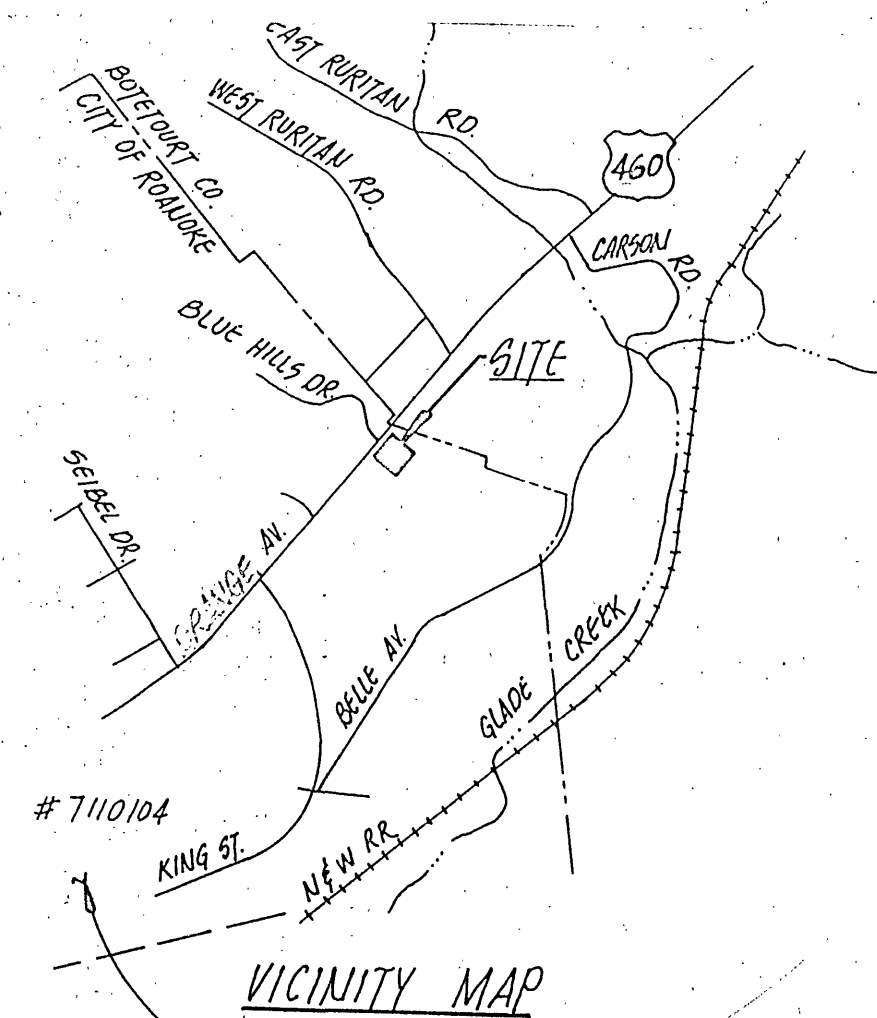
7-3-87 Ted & John & myself met Jim Jones and went over items on punch list - ditch needs work and pavement in turning lane needs attention.

# 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)    |
|          |     | 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                 |
|          |     | 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                             |
|          |     | SILT FENCE                             |

# GENERAL NOTES

- All sanitary sewer, water lines, storm drains and conduits shall be constructed to standard specifications and requirements of the City of Roanoke, Virginia
- All street construction shall be provided, including earthwork, grading, base stone, base and surface bituminous concrete, prime and double seal pavement, curb and gutter, entrances, erosion control, seeding, traffic control, the ditch along the Orange Avenue deceleration lane, the handicapped access ramps, and the street name signs.
- The Contractor shall arrange with and pay for the City of Roanoke to manufacture and install the City standard street name signs for Orange Avenue, N.E., and Mexico Way, N.E. for that intersection.
- Seeding shall be provided from the back of curb/edge of pavement to the right-of-way line.



11-14-86 Water dept. And Contr. (Rossi) out installing new 8" valve

11-24-86 checked site showers n/a work

12-1-86 Contr. Loc. exist. utilities and modified in M.H.s & pipe

12-3-86 Contr. set M.H. #101 and laying 8" PVC pipe toward M.H. #102 out of 103.

12-5-86 started laying pipe toward M.H. #104 out of 103.

12-8-86 laying pipe between M.H. #103 & #104 S.S. hit rock

12-10-86 started laying S.S. pipe from M.H. #101 to M.H. #101A.

12-12-86 laying 8" water line & set M.H. #101A

12-15-86 laying water line, relocating 18" conc. pipe at church S.D.

12-16-86 laying 18" S.D. pipe along Rt. 460 - will fill water line tomorrow.

12-17-86 Filled water line - Laying 18" pipe along Rt. 460 & at church center.

12-19-86 finished laying 18" conc. S.D. pipe along 460 & at church center.

Pressured tested water line 150' + 40'. OK WR

12-22-86 took water sample to Lab. - sample passed

1-5-87 started digging out for boring pit in median of Rt. 460

1-6-87 finished digging pit will install track & machine tomorrow barricading off pit in median

1-6-87 finished digging pit informed them to get CE stone and keep street closed

Thomas Bros. Grading Bank pit & setting grades - Thomas Bros. Grading & Hauling dirt

1-7-87 Contr. Boring bore pit & setting some dirt & mud in Rt. 460

placed stone into pit still getting some dirt & mud in Rt. 460

1-9-87 Contr. started boring under Rt. 460 w.b. approx. 5' when as job

Thomas Bros. Grading & Hauling dirt from bank site

1-12-87 Contr. has approx 20' casing in boring has hit rock will have to chip with Jack Hammer until Auger will turn.

1-13-87 Contr. boring for sewer, has 20' casing in. Thomas Bros. Grading & Top-soling slopes for bank site.

1-15-87 Contr. chipping rock & shooting for casing.

1-20-87 Contr. pumping water out of bore pit.

1-22-87 Contr. chipping rock & cleaning out for casing. w.b. line Rt. 460

2-1-87 pumping out water, cleaning out rock -

2-3-87 Lifting boring machine back in pit installing casing.

2-4-87 started back boring w.b. line Rt. 460

2-9-87 started back boring w.b. line Rt. 460

2-25-87 open cut remainder of ditch for casing w.b. relocation lane - installing casing

3-2-87 boring E.B. Lane Rt. 460.

3-3-87 finished boring set of laser - 18" PVC sewer pipe will hit into exist 30" S.D. will not pipe in order to get back

3-11-87 started laying 10" pipe out M.H. #99A

3-16-87 set new M.H. in med. laying 10" PVC in casing & anchoring

3-18-87 installing 18" PVC E.B. Lane in casing - anchoring

3-23-87 backfilling around M.H. in median and M.H. #100.

3-27-87 laying 8" PVC sewer between M.H. #100 & #100A

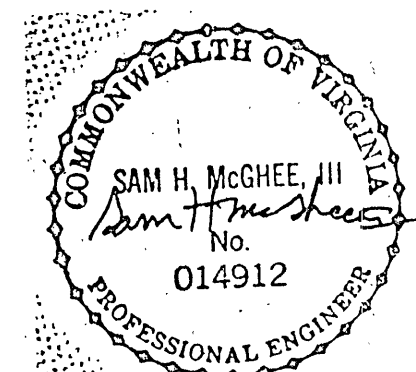
4-2-87 finished laying sewer line - lateral out of M.H. #100A

**RANCHO MEXICO BUSINESS PARK**  
**STREET CONSTRUCTION - MEXICO WAY, N.E.**

**AS-BUILT**

Sewer & Water & Storm Drain

**Mattern & Craig**  
CONSULTING ENGINEERS  
SUITE 401, 707 S. JEFFERSON STREET, ROANOKE, VIRGINIA 24011, (703) 345-9342



| REVISION | DATE | DESCRIPTION | BY | APP. |
|----------|------|-------------|----|------|
|          |      |             |    |      |
|          |      |             |    |      |
|          |      |             |    |      |
|          |      |             |    |      |

**DATE**  
**MAR 19**

**COMM.**  
**13-A**

# ABBREVIATIONS, LEGEND, GENERAL NOTES

## VICINITY MAP

5-11-86 Adams Laying B-3 on turning lane  
5-12-86 cleaning ditch line.  
5-13-87 cleaning ditch & water dept. out trying to locate curbs & valves Adams paved over.  
5-14-87 City Crews televising 18" sewer line.  
5-29-87 Adams Laying B-3 Base on Adams street

Mexico Way