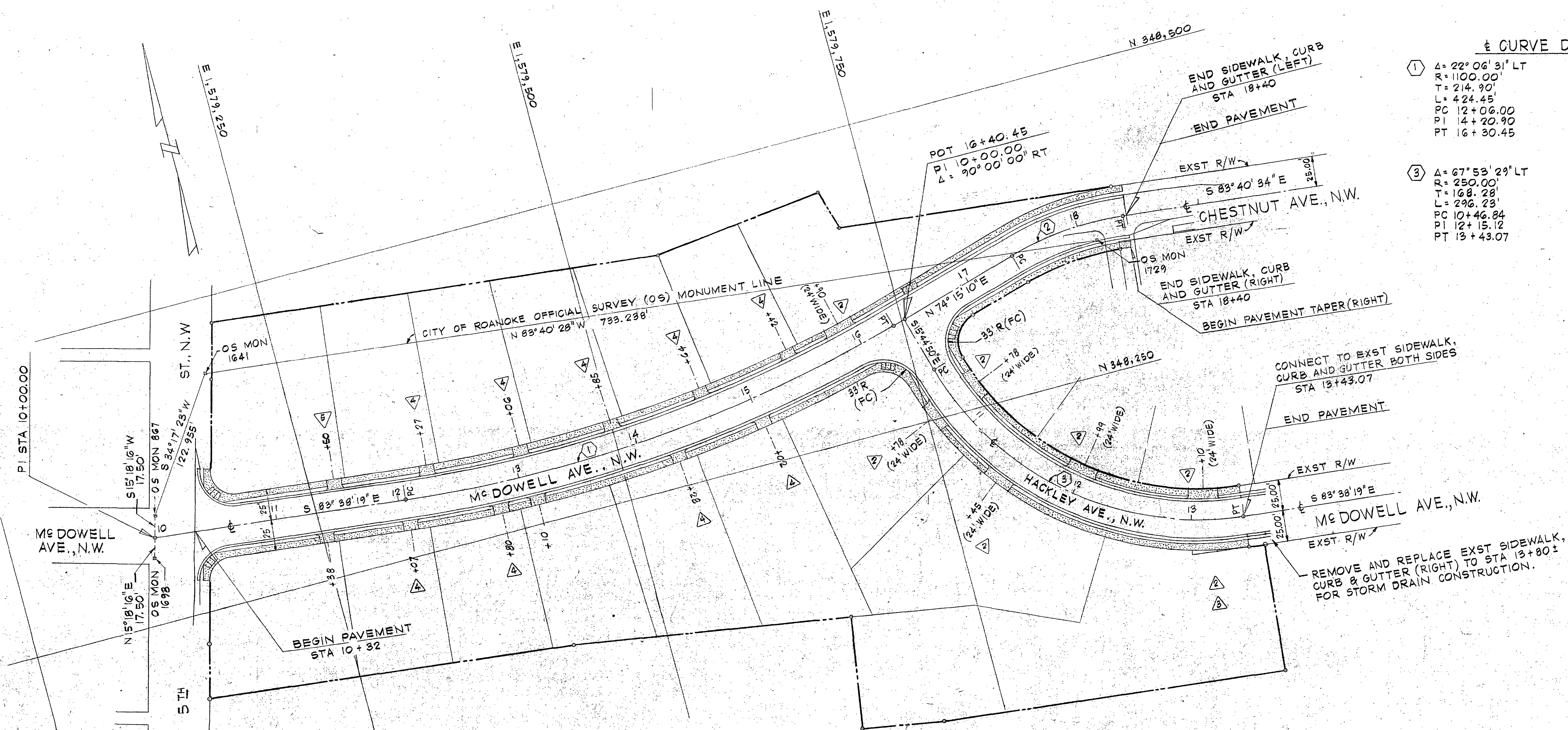
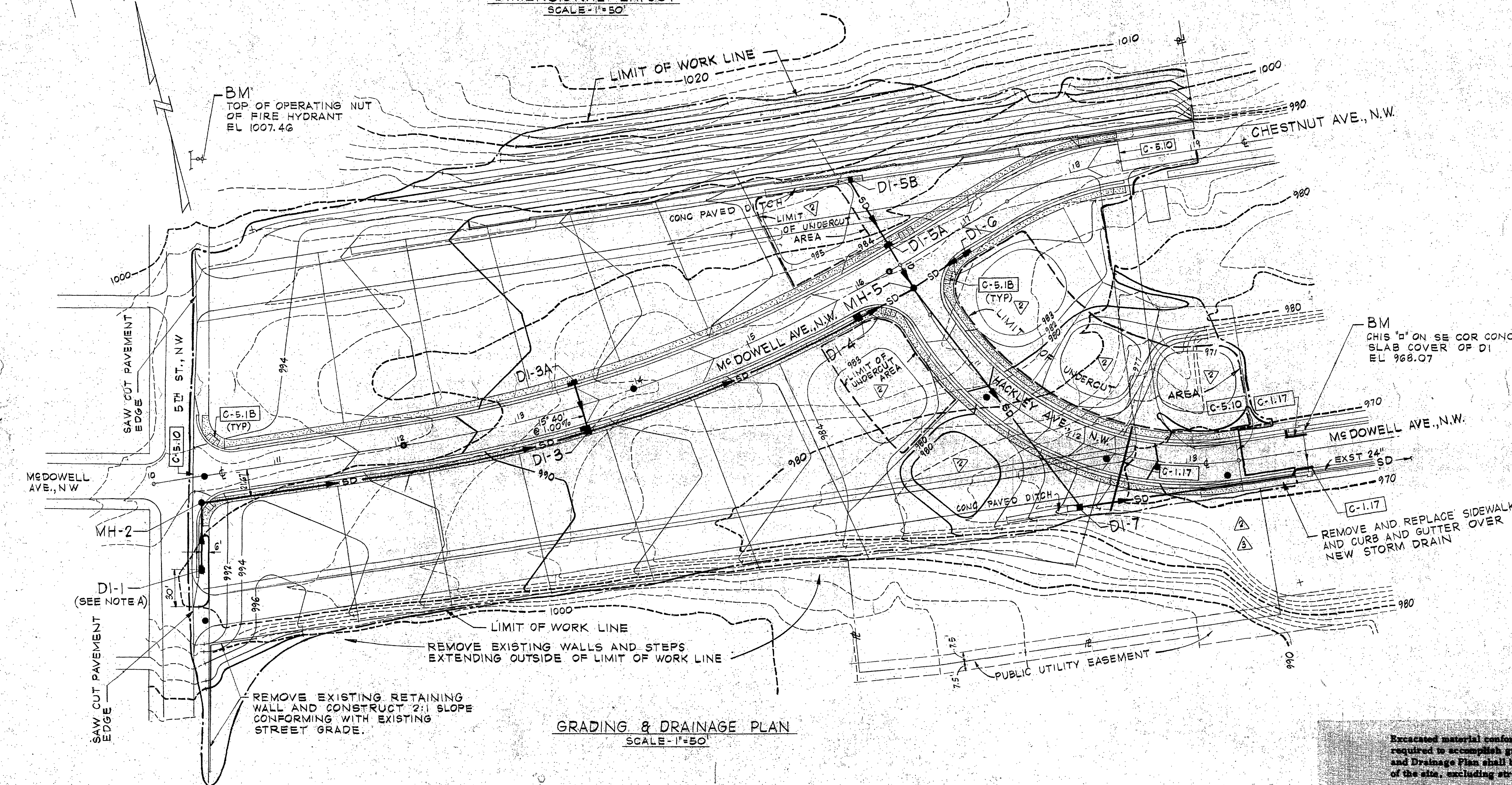




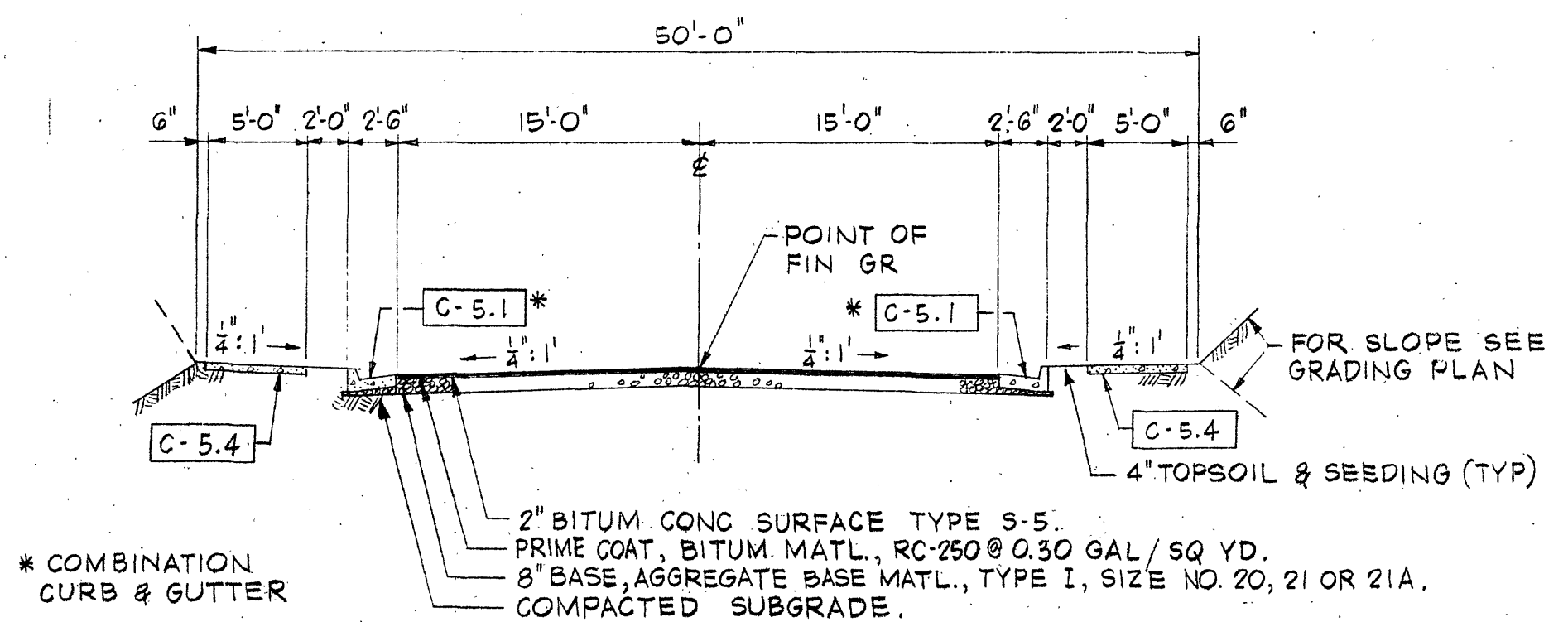
DIMENSIONAL LAYOUT
SCALE=1"=50'



GRADING & DRAINAGE PLAN
SCALE=1"=50'

1 CURVE DATA

①	Δ=22°06'31" LT R=1100.00' T=214.90' L=424.45' PC 12+06.00 PI 14+20.90 PT 16+30.45	②	Δ=22°04'16" RT R=250.00' T=48.76' L=96.30' PC 17+42.45 PI 17+91.21 PT 18+38.75
③	Δ=67°53'29" LT R=250.00' T=168.28' L=296.23' PC 10+46.34 PI 12+15.12 PT 13+43.07		



TYP. SECT 50' STREET
NO SCALE

- GENERAL NOTES**
- TOPOGRAPHY WAS OBTAINED BY PHOTOGRAMMETRIC METHODS.
 - CONTOUR INTERVAL - 2 FEET
 - VERTICAL CONTROL IS BASED ON CITY OF ROANOKE DATUM (USGS).
 - SEE SPECIFICATIONS FOR STANDARD DETAILS NOT SHOWN ON DRAWINGS.
 - DISTANCES BETWEEN MANHOLES ARE HORIZONTAL DISTANCES FROM CENTER TO CENTER OF MANHOLES.
 - "POINT OF FIN GR" AS NOTED ON TYPICAL STREET SECTION DENOTE POINTS WHERE PROFILE GRADES APPLY.
 - EXISTING TREES OUTSIDE LIMITS OF GRADING SHALL NOT BE DAMAGED OR DISTURBED.
 - AS PERMANENT DRAINAGE INLETS ARE COMPLETED, TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED ACROSS THE THROAT OF EACH INLET.
 - SUITABLE MATERIAL FROM EXISTING STOCKPILES SHOWN ON PROJECT LOCATION MAP MAY BE UTILIZED FOR SITE FILLS.
 - EXISTING BUILDINGS LOCATED WITHIN THE LIMITS OF WORK ARE TO BE DEMOLISHED UNDER A SEPARATE CONTRACT AND ARE NOT SHOWN.
 - AREAS INDICATED AS UNDERCUT AREAS SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 20' BELOW FINISHED GRADE AND BACKFILLED TO FINISHED GRADE. BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.

DRAINAGE STRUCTURE TABULATION

NO.	STATION	INVERT		TOP EL	TYPE	THROAT	STANDARD DETAIL NO.	REMARKS
		INFLUENT	EFFLUENT					
DI-1	5TH ST	---	985.60	990.00	DI-3C	12"	SEE NOTE A	SEE NOTE 8 OF GENERAL NOTES (TYP)
MH-2	5TH ST	985.05	985.05(24")	995.50	---	---	C-1.9.1	5' DIAMETER
DI-3	13+55(RT)	981.83	981.83	988.33	DI-3E	6"	VDH&T	15" FROM DI-3A
DI-3		982.58	981.83	988.33				VDH&T
DI-3A	13+55(LT)	---	982.98	988.33	DI-3B	6"	C-1.5	15" 40' @ 1.00% DI-3A TO DI-3
DI-4	15+90(RT)	977.03	977.03	983.88	DI-3E	4"	VDH&T	
MH-5	16+40(RT)	976.01(24")	975.86(24")	983.16	---	---	C-1.9.1	5' DIAMETER
MH-5	16+40(RT)	976.76(15")	975.86(24")	983.16	---	---		15" FROM DI-6
DI-6	16+91(RT)	---	977.26(15")	983.87	DI-3B	4"	C-1.5	
DI-5B	16+40(LT)	---	979.58(15")	985.00	DI-6B	---	VDH&T	
DI-5A	16+40(LT)	977.86(15")	977.86(15")	983.62	DI-3C	4"	C-1.5	
MH-5	16+40(RT)	976.76(15")	975.86(24")	983.16	---	---		15" FROM DI-5A
DI-7	12+27(RT)	987.53(24")	987.53(24")	973.00	DI-6A	---	VDH&T	
EXST								CONNECT TO EXST 24" STUB

NOTE A:
CONSTRUCT PAVEMENT WIDENING USING SAME PAVEMENT MATERIALS AND THICKNESS AS SHOWN ON TYPICAL STREET SECTION. PROVIDE 3.0' OF CONCRETE CURB AND GUTTER BEYOND END OF INLET & NECESSARY GUTTER WARPING.

FINISHED ELEVATIONS SHOWN ON AS BUILT DRAWINGS ARE NOT BASED UPON FIELD SURVEYS.

**AS BUILT
DRAWING**

10-15-79	AS BUILT	JHW
12-8-78	RELOCATED DRIVEWAY ENTRANCES	JHW
11-22-78	REMOVED FINISHED GRADE CONTOURS, RETAINING WALL & CONC ENTRANCE TO LOT 9, BLOCK 2. ADDED AREAS TO BE UNDERCUT.	JHW
10-78	ADDITIONAL SITE GRADING BOTH SIDES OF HACKLEY AVE., ADDED 24" WIDE ENTRANCES & ADDED NEW CONC RETAINING WALL.	JHW
6-2-78	ADDED NEW STREET NAMES PER CITY OF ROKE PLANNING DEPT	JHW
REVISION	DATE	DESCRIPTION
DESIGNED	J.H.W.	
DRAWN	J.H.W.	
CHECKED	JHW	
APPROVED	JHW	
SUBMITTED	JHW	
SITE IMPROVEMENTS CONTRACT SI-3 SECTION FIVE GAINSBORO NEIGHBORHOOD DEVELOPMENT PROGRAM		
DIMENSIONAL LAYOUT, GRADING & DRAINAGE PLAN, TYPICAL STREET SECTION AND GENERAL NOTES		
HAYES, SEAY, MATTERN & MATTERN ARCHITECTS - ENGINEERS - PLANNERS ROANOKE, VIRGINIA RICHMOND, VIRGINIA VIRGINIA BEACH, VIRGINIA WASHINGTON, D.C.		SCALE AS NOTED COMM. NO. 3756C DATE 24 MAR 1978 SHEET 1

Excavated material conforming with the specifications for site fills and not required to accomplish grading in accordance with Revision 2 to Grading and Drainage Plan shall be uniformly spread and compacted on the remainder of the site, excluding streets, as directed by the Architect-Engineer.