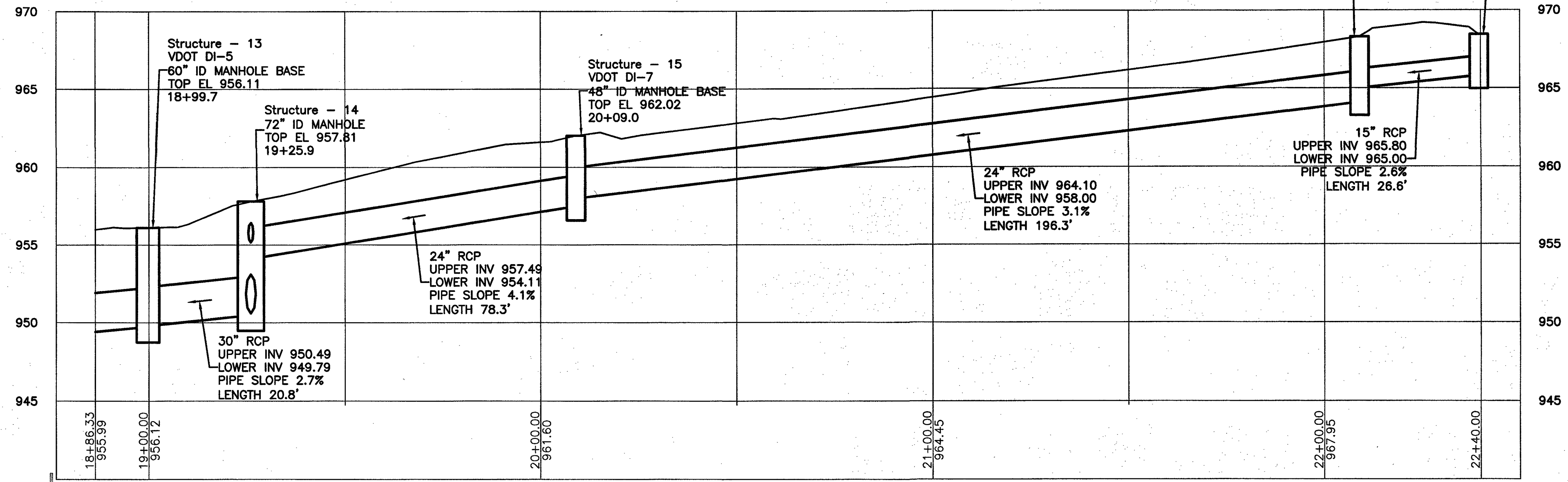
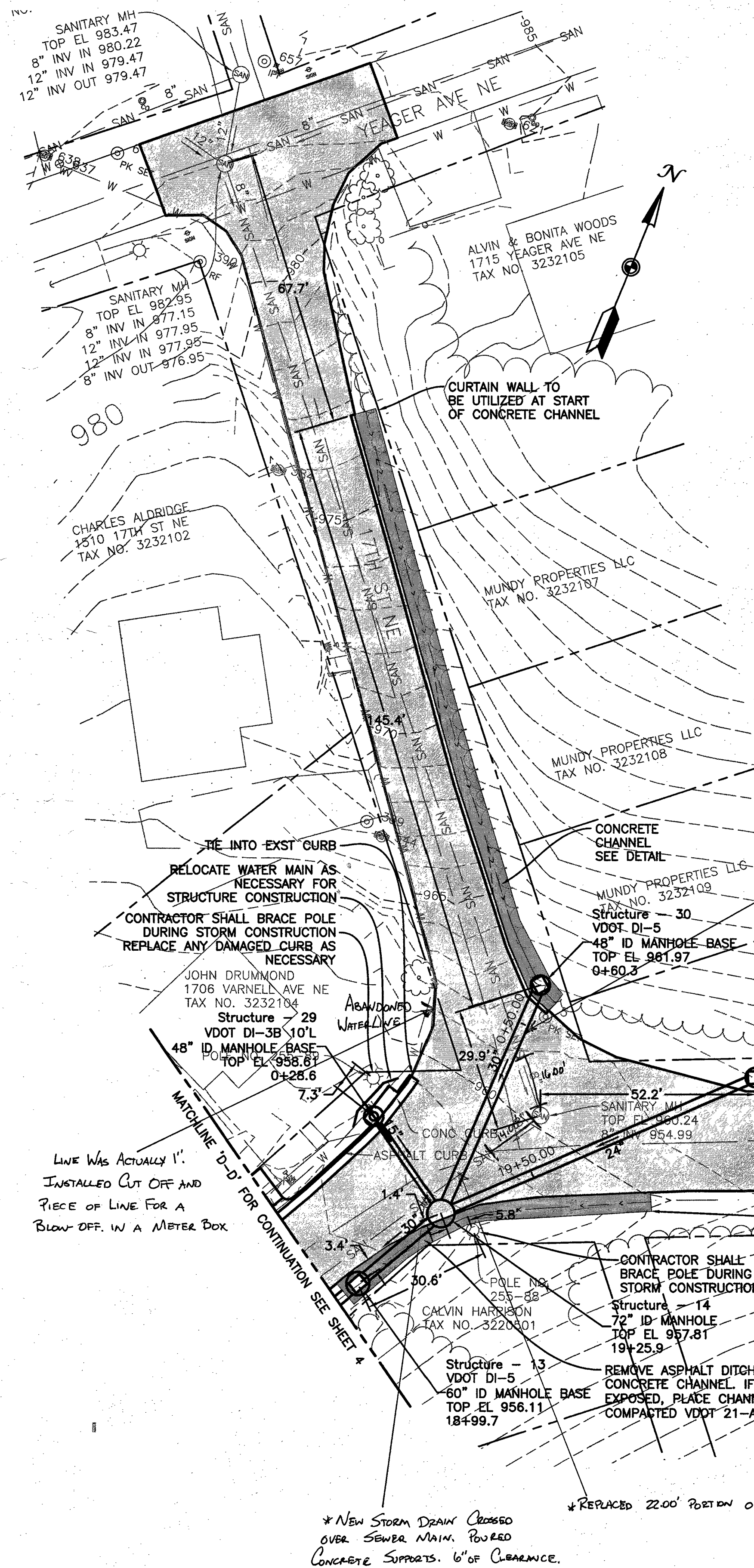
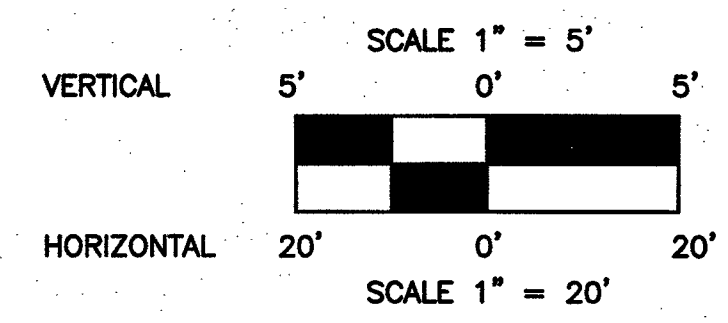




GRASS V-DITCH SCHEDULE

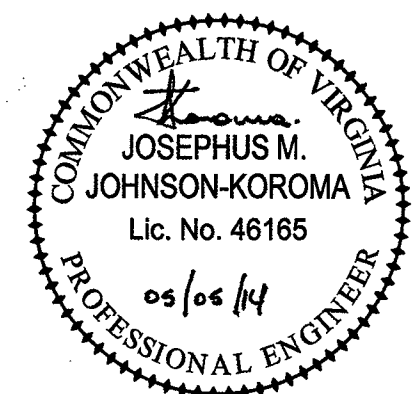
Between Struts	Width	Slope %	Depth	L-Side Slope	R-Side Slope	Depth (ft)	Width (ft)	Notes
5	6	3'	2.02	3"	2:1	2:1	0.25	3.00
6	7	3'	3.65	3"	2:1	2:1	0.25	3.00
7	8	3.5'	3.27	6"	2:1	2:1	0.50	3.50
11	12	4'	1.88	4"	2:1	2:1	0.33	4.00
12	13	4'	1.84	4"	2:1	2:1	0.33	4.00
15	16	4'	3.13	4"	2:1	2:1	0.33	4.00

NOTE:
THE MINIMUM ALLOWABLE SLOPE FOR A VEGETATED SWALE IS 2%.
THREE OF THE PROPOSED DITCHES ARE UNDER 2% DUE TO EXISTING SHOULDER AND ROAD SLOPE.



OFFICE OF THE
CITY ENGINEER
215 CHURCH AVENUE, S.W.
ROOM 350
PHONE: (540) 853-2731
FAX: (540) 853-1364
WWW.ROANOKEVA.GOV

DESIGNED:
ARG
DRAWN:
ARG
CHECKED:
JJK



REV.	DATE:	DESCRIPTION
1	02/05/14	RESUBMITTAL AFTER 1ST COMMENTS

DATE:
11/19/2013
SCALE:
1"=20'-0"
24"x36" SHEET

VARNELL AVENUE DRAINAGE IMPROVEMENTS PROJECT
CITY OF ROANOKE, VIRGINIA
PLAN AND PROFILE 4

SHEET
8 OF 10
PLAN NO.
6758
APPROVED
AUG 04 2014