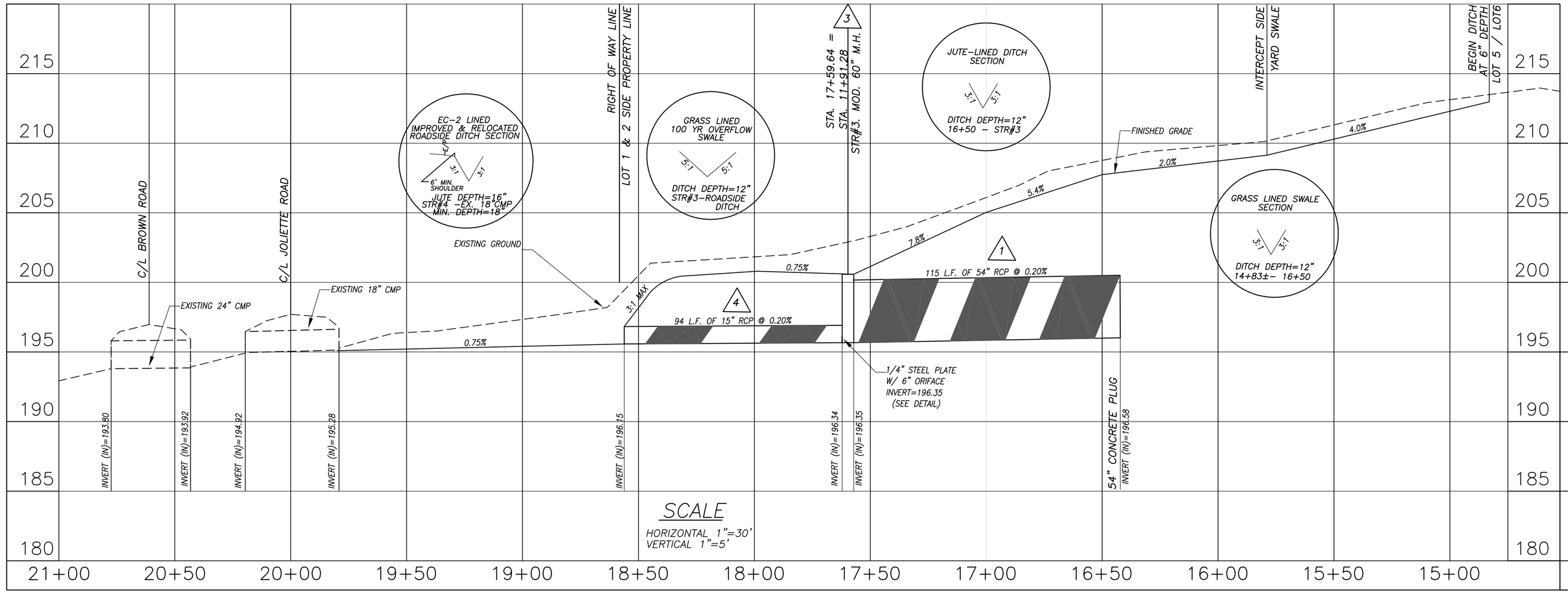
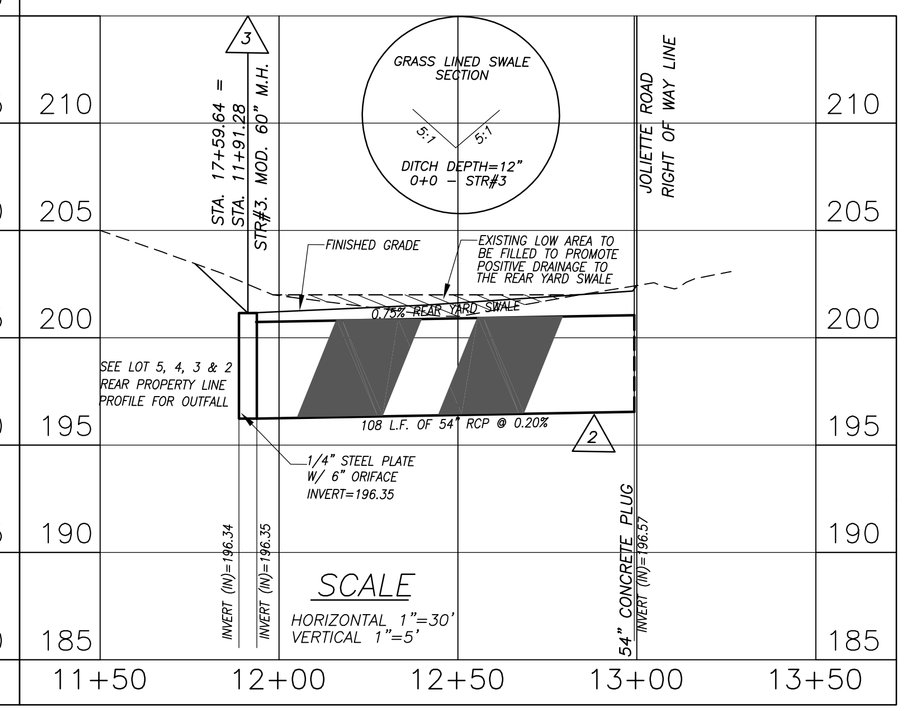
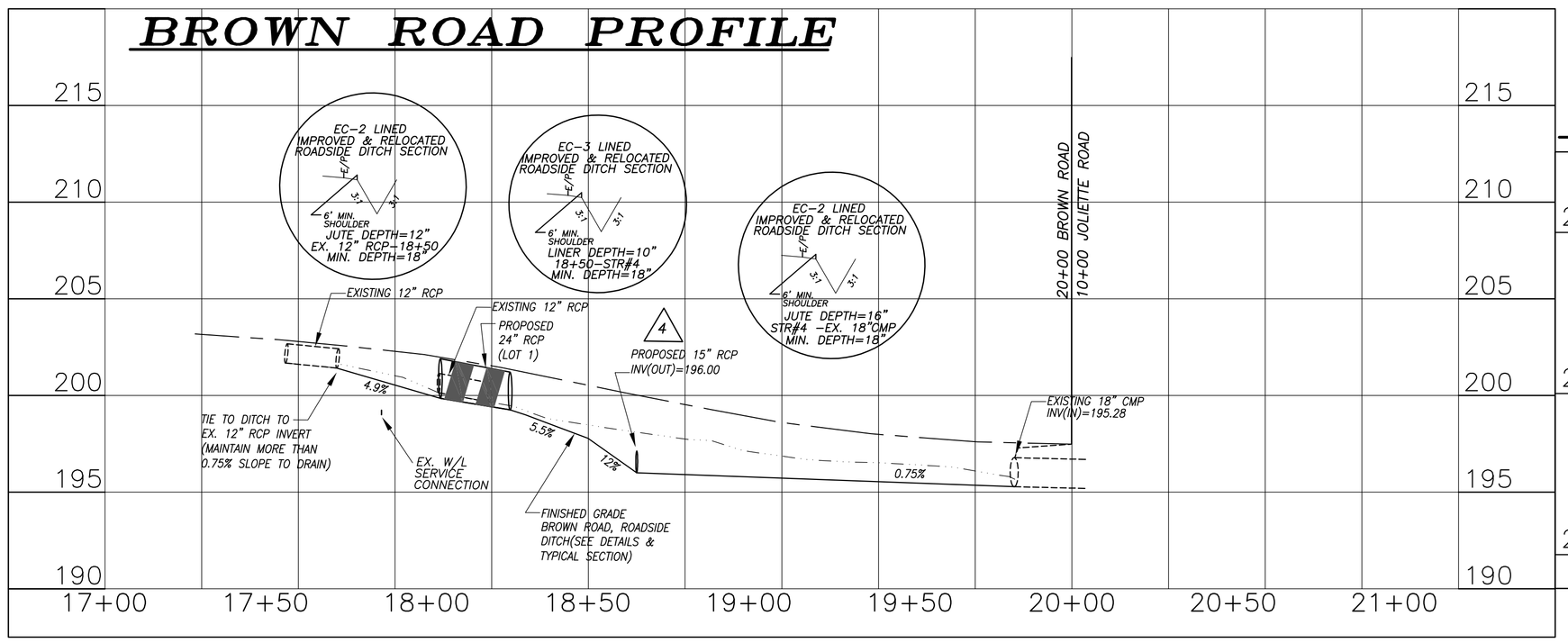
LOT 5, 4, 3 & 2 REAR DITCH PROFILE



LOT 1 REAR P/L

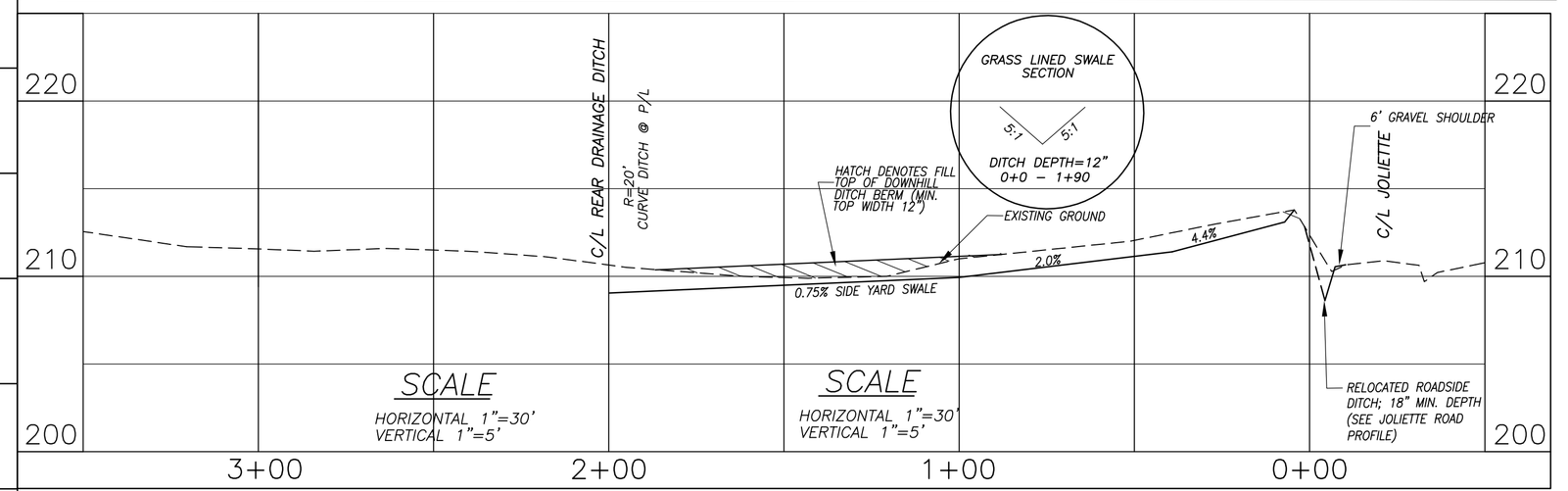


BROWN ROAD PROFILE

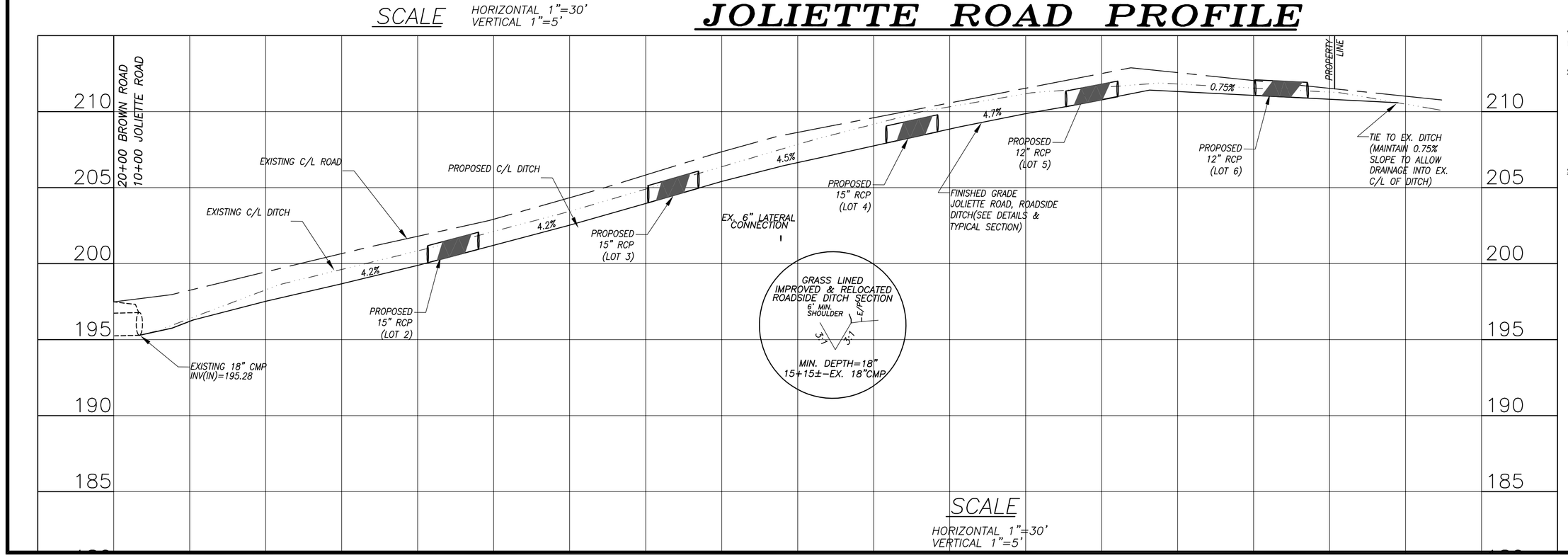


SCALE HORIZONTAL 1"=30'
VERTICAL 1"=5'

YARD SWALE PROFILE NORTH SIDE OF LOT 4



JOLIETTE ROAD PROFILE



WORKSHEET A
NEW DEVELOPMENT

DGN BY: ccm

STEP 1: DETERMINE PRE-DEVELOPED PHOSPHOROUS LOADING

Lpre = Fpre * Asite

WHERE: Lpre = Pre-developed phosphorous load(lb/yr)

Fpre = Pre-developed phosphorous load factor(lb/ac/yr)
Table 3> 0.45 lb/ac/yr Default

Asite = Area of RMA/RPA within the site (acres)
Asite = 0.86 acres
Lpre = 0.86 lb/yr

STEP 2: DETERMINE ONSITE POST-DEVELOPED PHOSPHOROUS LOADING

Lpost = A * Fpost

WHERE: A =RMA/RPA of each subarea within the site (acres)

Fpost = Post-development phosphorous load factor(lb/ac/yr)
Table 1

I =Percent impervious area in each subarea

A(acres)	I(%)	Fpost	Lpost	
1.90	16	0.45	0.856	(2,209 s.f. per lot)
			0.000	Remain under 16%
			0.000	
			0.000	
			0.000	
		TOTAL	0.856	

STEP 3: COMPUTE PHOSPHOROUS REMOVAL REQUIREMENT (RR)

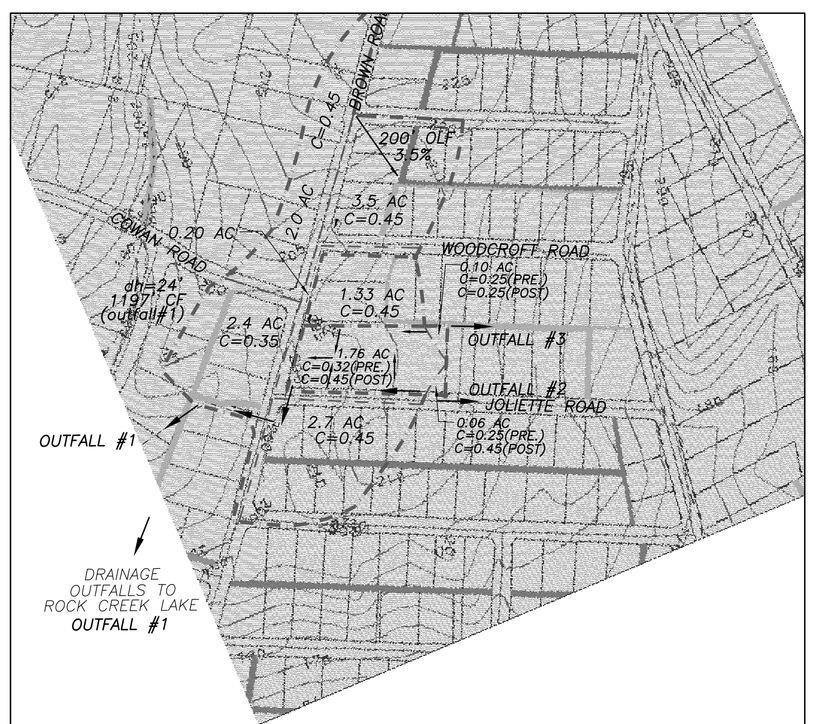
Lpre = Pre-developed phosphorous load from total in Step 2 above

RR = Lpost - Lpre

RR = 0.00 lb/yr

Note: Buffer reduction should be substantiated by additional phosphorous removal computations.

NOTE: 6 Lots @ 2,209 Imp. per Lot is 16% Imperviousness



OVERALL DRAINAGE MAP
SCALE: 1"=300'

COMMONWEALTH OF VIRGINIA
Christopher C. Mulligan
Lic. No. 031672
PROFESSIONAL ENGINEER

DESIGNED BY: C.C.M.
DRAWN BY: K.M.C.
CHECKED BY: C.C.M.

POTTS, MINTER, AND ASSOCIATES P.C.
Engineers, Land Surveyors, Land Planners
3520 S. Courthouse Road Richmond, Va. 23236
Phone: (804) 745-2876 Fax: 745-9571

PROFILES AND COMPUTATIONS
SOUTHAM, SECTION F
A RESUBDIVISION OF PART
OF LOT 37, JAHNKE PLACE'
MIDLOTHIAN DISTRICT
CHESTERFIELD COUNTY, VIRGINIA

REMARKS:

DATE:	PER COUNTY COMMENTS:
11/29/10	COMMENTS/DITCH PROFILE
02/23/11	DETAIL/NS-19
03/24/11	

DATE: OCTOBER 29, 2010
SHEET NO.: 8 OF 9
SCALE: AS SHOWN
JOB NO.: 1007-06

COUNTY PROJ. 10-0193