PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-8I/CONST.41
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

NAD 83/2011

-L-
PI Sta 520+29.20
△ = 36° 49' 19.9" (LT)
D = 4° 20' 26.1"
L = 848.32'
T = 439.39'
R = 1,320.00'
SE = 06
V = 45 mph

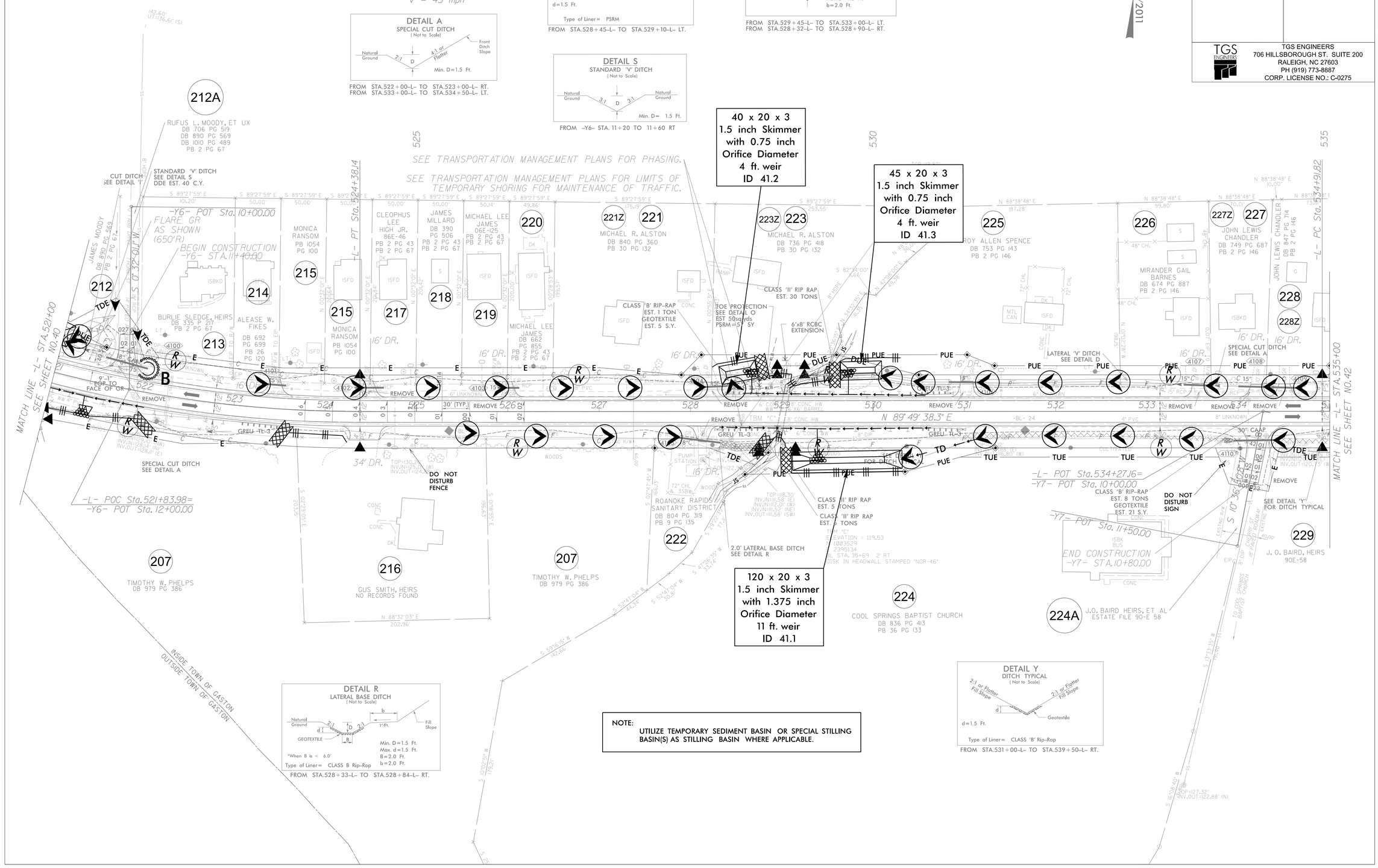
DETAIL I
CUT DITCH
(Not to Scale)
Natural Ground; 2:1; D; 4:1 or Flatter; Front Ditch Slope
Min. D=1.5 Ft.
FROM STA.521+00-L- TO STA.521+50-L- LT.

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground; 2:1; D; 4:1 or Flatter; Front Ditch Slope
Min. D=1.5 Ft.
FROM STA.522+00-L- TO STA.523+00-L- RT.
FROM STA.533+00-L- TO STA.534+50-L- LT.

DETAIL O
TOE PROTECTION
(Not to Scale)
Natural Ground; d; 2:1 or Flatter Fill Slope; PSRM
d=1.5 Ft.
Type of Liner= PSRM
FROM STA.528+45-L- TO STA.529+10-L- LT.

DETAIL S
STANDARD 'V' DITCH
(Not to Scale)
Natural Ground; 3:1; D; 3:1; Natural Ground
Min. D= 1.5 Ft.
FROM -Y6- STA. 11+20 TO 11+60 RT

DETAIL D
LATERAL 'V' DITCH
(Not to Scale)
Natural Ground; 2:1; D; 2:1; b; 1'-Ft.; Fill Slope
Min. D=1.5 Ft.
b=2.0 Ft.
FROM STA.529+45-L- TO STA.533+00-L- LT.
FROM STA.528+32-L- TO STA.528+90-L- RT.



DETAIL R
LATERAL BASE DITCH
(Not to Scale)
Natural Ground; 2:1; D; 2:1; b; 1'-Ft.; Fill Slope; d; GEOTEXTILE; B
Min. D=1.5 Ft.
Max. d=1.5 Ft.
B=2.0 Ft.
b=2.0 Ft.
*When B is < 6.0'
Type of Liner= CLASS B Rip-Rap
FROM STA.528+33-L- TO STA.528+84-L- RT.

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

DETAIL Y
DITCH TYPICAL
(Not to Scale)
2:1 or Flatter Fill Slope; 2:1 or Flatter Fill Slope; d; Geotextile
d=1.5 Ft.
Type of Liner= CLASS 'B' Rip-Rap
FROM STA.531+00-L- TO STA.539+50-L- RT.