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PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	EC-29/CONST.30
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

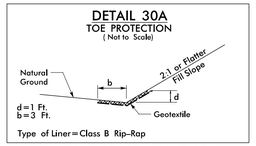
TGS ENGINEERS
201 W. MARION ST-STE 200
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83/2011

-L- CURVE DATA

PI Sta 355+57.79	PI Sta 360+98.29
△ = 21° 26' 13.1" (LT)	△ = 31° 53' 08.6" (RT)
D = 7° 32' 20.1"	D = 7° 32' 20.1"
L = 284.35'	L = 422.95'
T = 143.86'	T = 217.11'
R = 760.00'	R = 760.00'
SE = 0.08	DS = 50 MPH
DS = 50 MPH	SE = 0.08

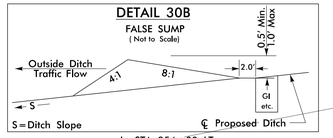
DETAIL 30A
TOE PROTECTION
(Not to Scale)



Type of Liner=Class B Rip-Rap

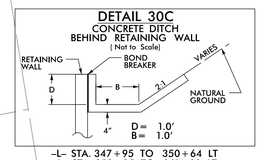
-L- STA. 347+34 TO STA. 347+95 LT
-L- STA. 350+64 TO STA. 351+10 LT
-L- STA. 351+72 TO STA. 352+25 LT

DETAIL 30B
FALSE SUMP
(Not to Scale)



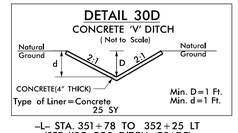
-L- STA. 354+00 LT

DETAIL 30C
CONCRETE DITCH BEHIND RETAINING WALL
(Not to Scale)



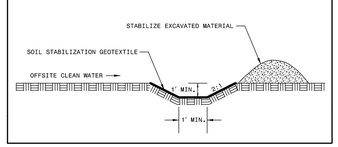
-L- STA. 347+95 TO 350+64 LT
-L- STA. 352+25 TO 361+00 LT
(SEE WALL ENVELOPES FOR DITCH GRADE)

DETAIL 30D
CONCRETE 'V' DITCH
(Not to Scale)

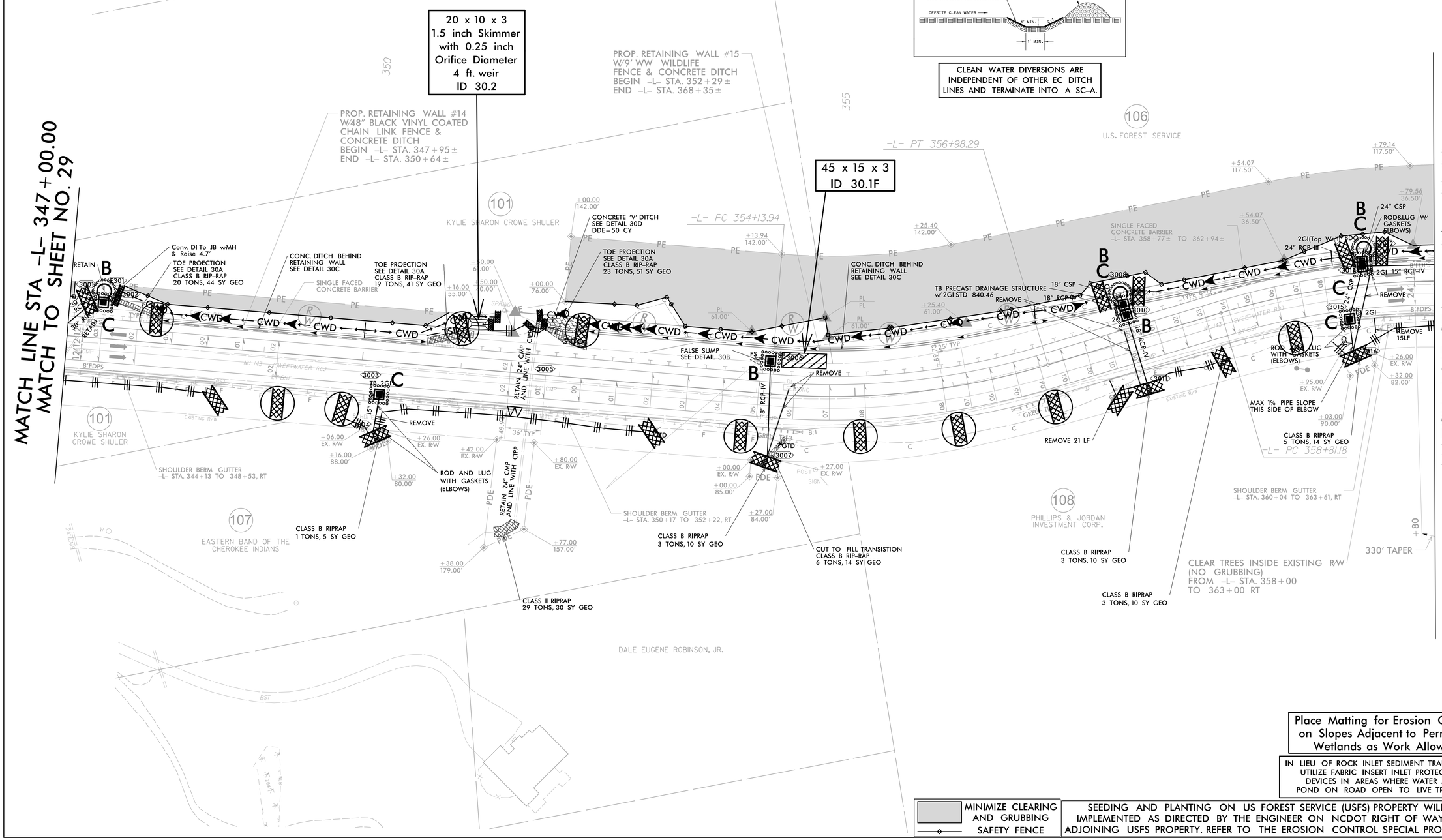


-L- STA. 351+78 TO 352+25 LT
(SEE XSC FOR DITCH GRADE)

CLEAN WATER DIVERSION
(Not to Scale)



CLEAN WATER DIVERSIONS ARE INDEPENDENT OF OTHER EC DITCH LINES AND TERMINATE INTO A SC-A.



Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

MINIMIZE CLEARING AND GRUBBING
SAFETY FENCE

SEEDING AND PLANTING ON US FOREST SERVICE (USFS) PROPERTY WILL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER ON NCDOT RIGHT OF WAY AND ADJOINING USFS PROPERTY. REFER TO THE EROSION CONTROL SPECIAL PROVISIONS.