LOCHNER	PROJECT REFERENCE NO.	SHEET NO.
H. W. LOCHNER, INC. 2840 PLAZA PLACE, SUITE 202 RALEIGH, NC 27612 NC License Number F-0159	R-5523	EC-7/CONST.4
ECOLOGICAL ENGINEERING, LLP 1151 SE CARY PARKWAY CARY, NC 27518 NC License Number F-1148	R/W SHEET NO.	
	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

REVISIONS

-Y1- (US 401)

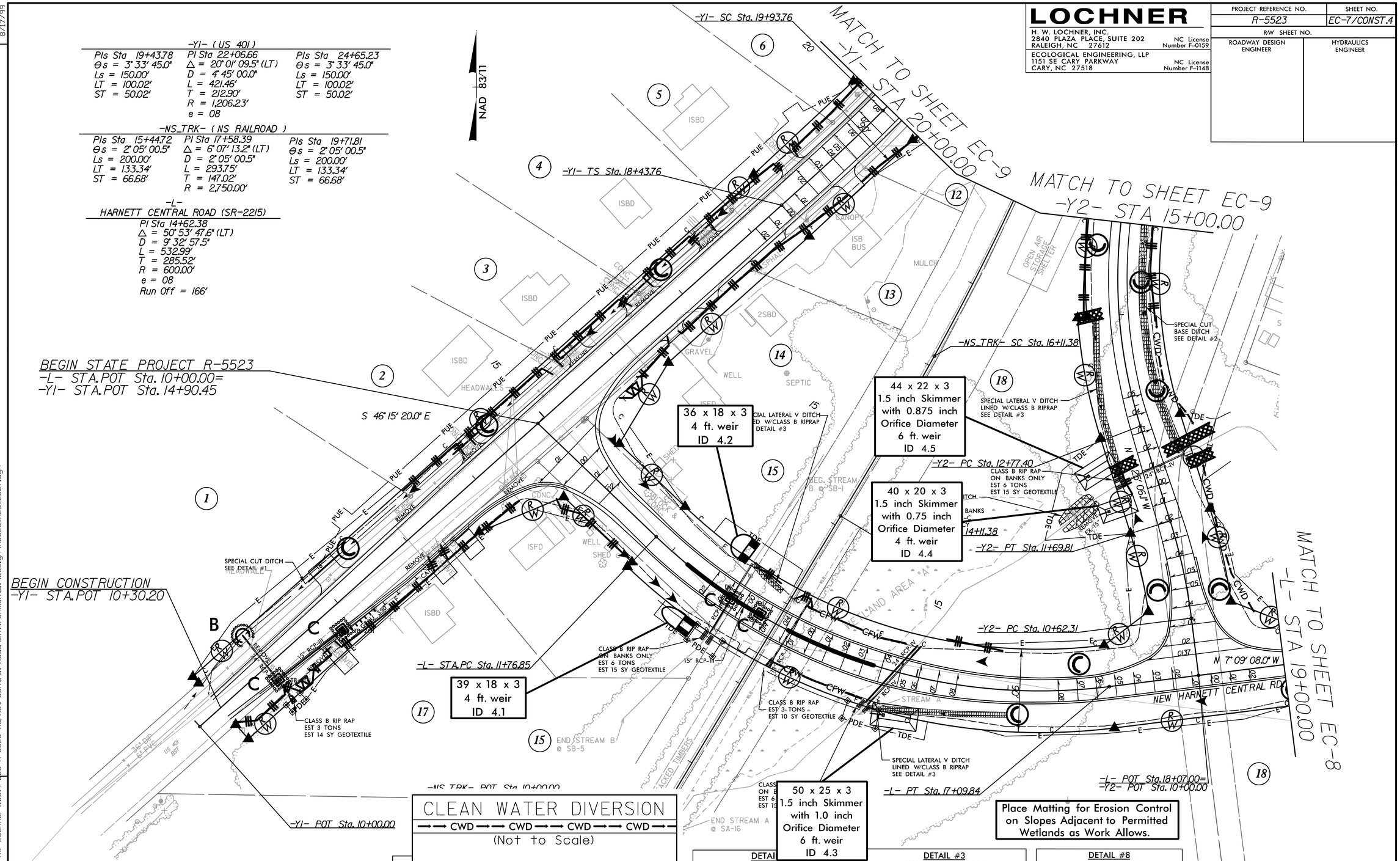
PIs Sta 19+43.78	PI Sta 22+06.66	PIs Sta 24+65.23
Θs = 3° 33' 45.0"	Δ = 20° 01' 09.5" (LT)	Θs = 3° 33' 45.0"
Ls = 150.00'	D = 4° 45' 00.0"	Ls = 150.00'
LT = 100.02'	L = 421.46'	LT = 100.02'
ST = 50.02'	T = 212.90'	ST = 50.02'
	R = 1,206.23'	
	e = 08	

-NS_TRK- (NS RAILROAD)

PIs Sta 15+44.72	PI Sta 17+58.39	PIs Sta 19+71.81
Θs = 2° 05' 00.5"	Δ = 6° 07' 13.2" (LT)	Θs = 2° 05' 00.5"
Ls = 200.00'	D = 2° 05' 00.5"	Ls = 200.00'
LT = 133.34'	L = 293.75'	LT = 133.34'
ST = 66.68'	T = 147.02'	ST = 66.68'
	R = 2,750.00'	

-L-
HARNETT CENTRAL ROAD (SR-2215)

PI Sta 14+62.38
Δ = 50° 53' 47.6" (LT)
D = 9° 32' 57.5"
L = 532.99'
T = 285.52'
R = 600.00'
e = 08
Run Off = 166'



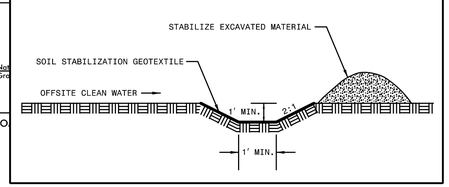
-Y2-

PI Sta 11+16.21	PI Sta 14+62.64
Δ = 10° 15' 58.1" (LT)	Δ = 38° 19' 43.1" (RT)
D = 9° 32' 57.5"	D = 10° 44' 58.8"
L = 107.51'	L = 356.56'
T = 53.90'	T = 185.24'
R = 600.00'	R = 533.00'
e = 05	e = 05
Run Off = 103'	Run Off = 103'

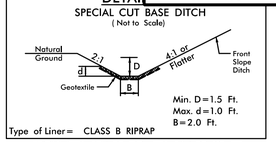
CLEAN WATER DIVERSION

CWD → CWD → CWD → CWD →

(Not to Scale)



DETAIL #1
SPECIAL CUT BASE DITCH
(Not to Scale)

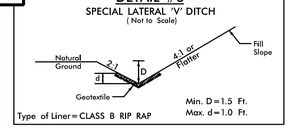


Min. D = 1.5 Ft.
Max. d = 1.0 Ft.
B = 2.0 Ft.

Type of Liner = CLASS B RIPRAP

FROM STA. 12+38 TO STA. 16+00 Y2 RT
RIP RAP = 162.2 TONS, GEO = 321.78 SY

DETAIL #3
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

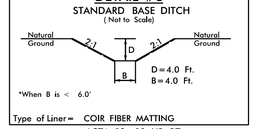


Min. D = 1.5 Ft.
Max. d = 1.0 Ft.

Type of Liner = CLASS B RIP RAP

FROM STA. 12+82 TO STA. 13+26 L LT
RIP RAP = 15.3 TONS, GEO = 29.33 SY
FROM STA. 14+60 TO STA. 16+00 L RT
RIP RAP = 48.7 TONS, GEO = 93.33 SY
FROM STA. 12+30 TO STA. 14+00 Y2 LT
RIP RAP = 59.2 TONS, GEO = 113.33 SY

DETAIL #8
STANDARD BASE DITCH
(Not to Scale)



*When B is < 6.0'

D = 4.0 Ft.
B = 4.0 Ft.

Type of Liner = COIR FIBER MATTING

+/-STA. 12+10 Y2 RT
DDE = +/-70 CY

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

SEE SHEET 7 FOR -L- PROFILE
SEE SHEET 8 FOR -Y2- PROFILE

2:59:53 PM
R:\10000's\10000's Consultants\10514 HW Lochner\10514-006 R-5523 Harnet Central Road\Environmental\Design\R5523_REU_EC07.dgn
davidlowery