

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	11C.099075	1	11

YADKIN COUNTY

**LOCATION: SR 1505 VALLIE ROAD FROM THE INTERSECTION
OF SR 1503 COUNTRY CLUB ROAD STA. 10+00 TO END OF PROJECT
STA. 53+85.18 SR 1511 ROUND HILL ROAD**
TYPE OF WORK: GRADE, DRAIN, BASE, PAVE - 0.48 MILES

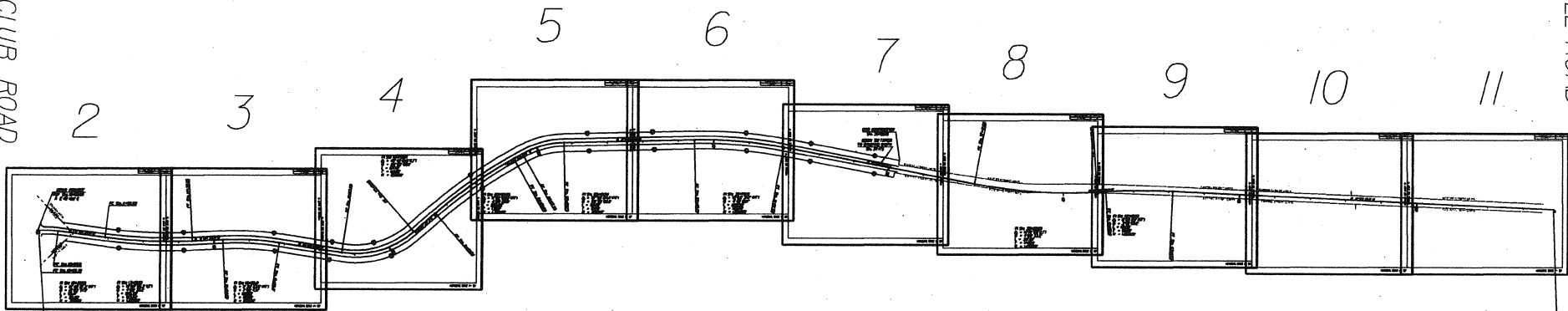


THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG1000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY

SITE DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 20' IN LENGTH
ALL OTHER AREAS FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HWZ ZONES

SR 1503 COUNTRY CLUB ROAD

SR 1511 ROUND HILL ROAD



SR 1505 VALLIE ROAD

BEGIN PROJECT
POT Sta. 10+00.00

DISCLAIMER

THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS. THE PROPERTY SHOWN ON THIS MAP WAS LOCATED FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION FOR HIGHWAY DESIGN PURPOSES. SOME ERROR MAY EXIST BETWEEN THE GRAPHICAL AND ACTUAL GROUND LOCATIONS OF PROPERTY LINES. THIS MAP IS TO BE USED AS A GRAPHICAL REPRESENTATION OF THE NCDOT'S INTENT TO ACQUIRE PROPERTY FOR RIGHT OF WAY PURPOSES, AND IN NO WAY REPRESENTS AN ACTUAL BOUNDARY SURVEY OF THIS PROPERTY.

END PROJECT
POT Sta. 53+85.18

GRAPHIC SCALES

DESIGN DATA

PROJECT LENGTH

0.83 MILES

Prepared in the Office of:

DIVISION OF HIGHWAYS
DIVISION 11, DISTRICT 1, ELKIN
P.O. BOX 558 ELKIN, NC 28621

RIGHT OF WAY DATE:
AUGUST 19, 2008

LETTING DATE:

M.A. PETTYJOHN, P.E.
DIVISION ENGINEER

B.W. WHITAKER, P.E.
DISTRICT ENGINEER

DIVISION ENGINEER

SIGNATURE: _____ P.E.

DISTRICT ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SIGNATURE: _____ P.E.

STATE DESIGN ENGINEER
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

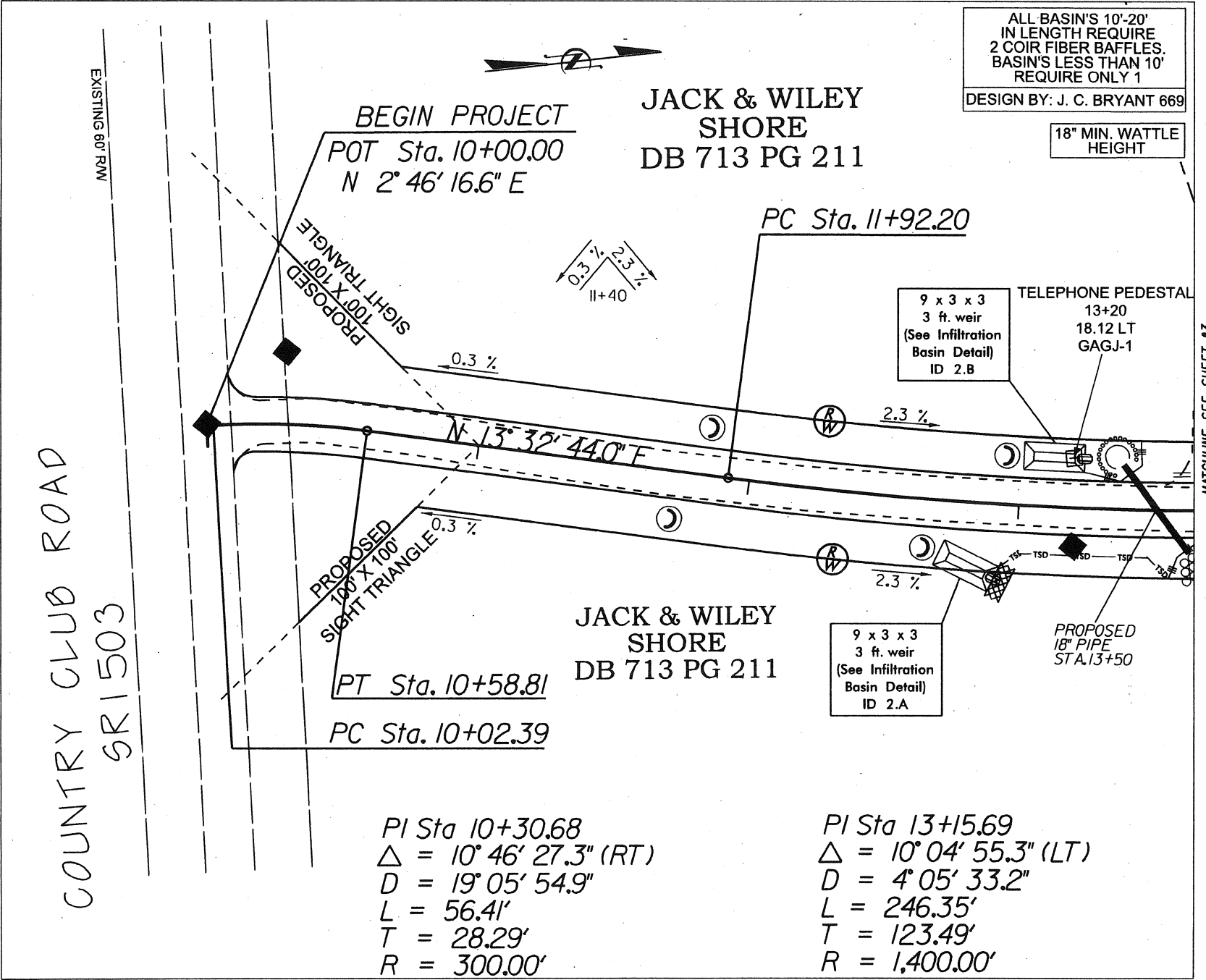
APPROVED
DIVISION ADMINISTRATOR DATE

PROJECT REFERENCE NO.	SHEET NO.
11C.099075	PLN02

ALL BASIN'S 10'-20'
IN LENGTH REQUIRE
2 COIR FIBER BAFFLES.
BASIN'S LESS THAN 10'
REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

18" MIN. WATTLE
HEIGHT



COUNTRY CLUB ROAD
SR 1503

EXISTING 60' RM

BEGIN PROJECT
POT Sta. 10+00.00
N 2° 46' 16.6" E

JACK & WILEY
SHORE
DB 713 PG 211

PC Sta. 11+92.20

PT Sta. 10+58.81
PC Sta. 10+02.39

JACK & WILEY
SHORE
DB 713 PG 211

PI Sta 10+30.68
Δ = 10° 46' 27.3" (RT)
D = 19° 05' 54.9"
L = 56.41'
T = 28.29'
R = 300.00'

PI Sta 13+15.69
Δ = 10° 04' 55.3" (LT)
D = 4° 05' 33.2"
L = 246.35'
T = 123.49'
R = 1,400.00'

HORIZONTAL SCALE 1" = 50'

MATCHLINE SEE SHEET *3

ALL BASIN'S 10'-20'
IN LENGTH REQUIRE
2 COIR FIBER BAFFLES.
BASIN'S LESS THAN 10'
REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

HERBERT & BEN
BRENDLE
DB 583 PG 541

VICTORIA SHORE
DB 713 PG 266

JACK & WILEY
SHORE
DB 713 PG 211

VICTORIA SHORE
DB 713 PG 266

PI Sta 16+05.41
 $\Delta = 11^{\circ} 30' 23.8''$ (RT)
 $D = 7^{\circ} 09' 43.1''$
 $L = 160.66'$
 $T = 80.60'$
 $R = 800.00'$

9 x 3 x 3
3 ft. weir
(See Infiltration
Basin Detail)
ID 3.A

9 x 3 x 3
3 ft. weir
(See Infiltration
Basin Detail)
ID 3.B

18" MIN. WATTLE
HEIGHT

PROPOSED
15" PIPE
STA. 14+64

PROPOSED
18" PIPE
STA. 16+50

PT Sta. 14+38.55

PROPERTY LINE (TYPICAL)

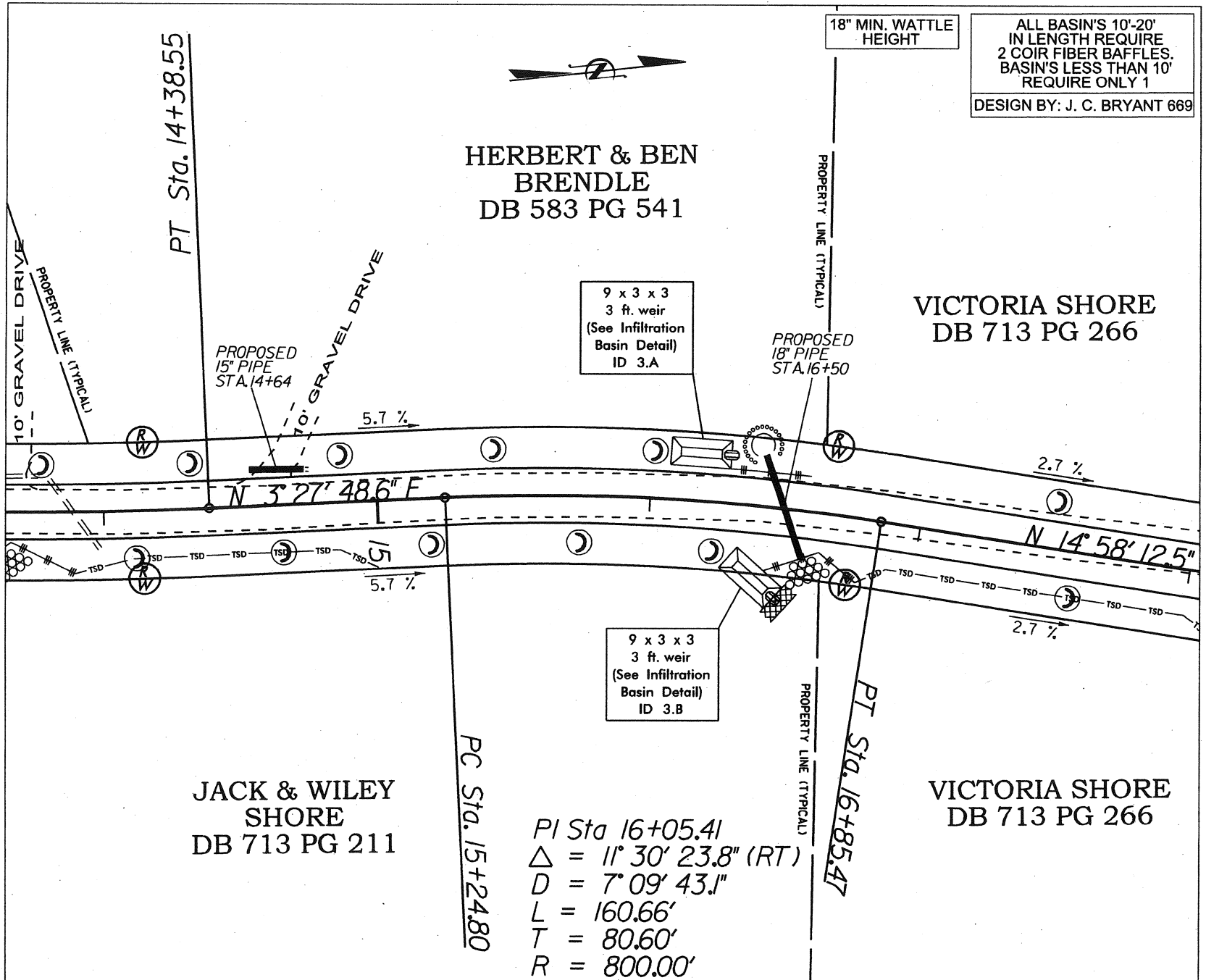
PROPERTY LINE (TYPICAL)

PC Sta. 15+24.80

PT Sta. 16+85.47

MATCHLINE SEE SHEET #2

MATCHLINE SEE SHEET #4



ALL BASIN'S 10'-20'
IN LENGTH REQUIRE
2 COIR FIBER BAFFLES.
BASIN'S LESS THAN 10'
REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

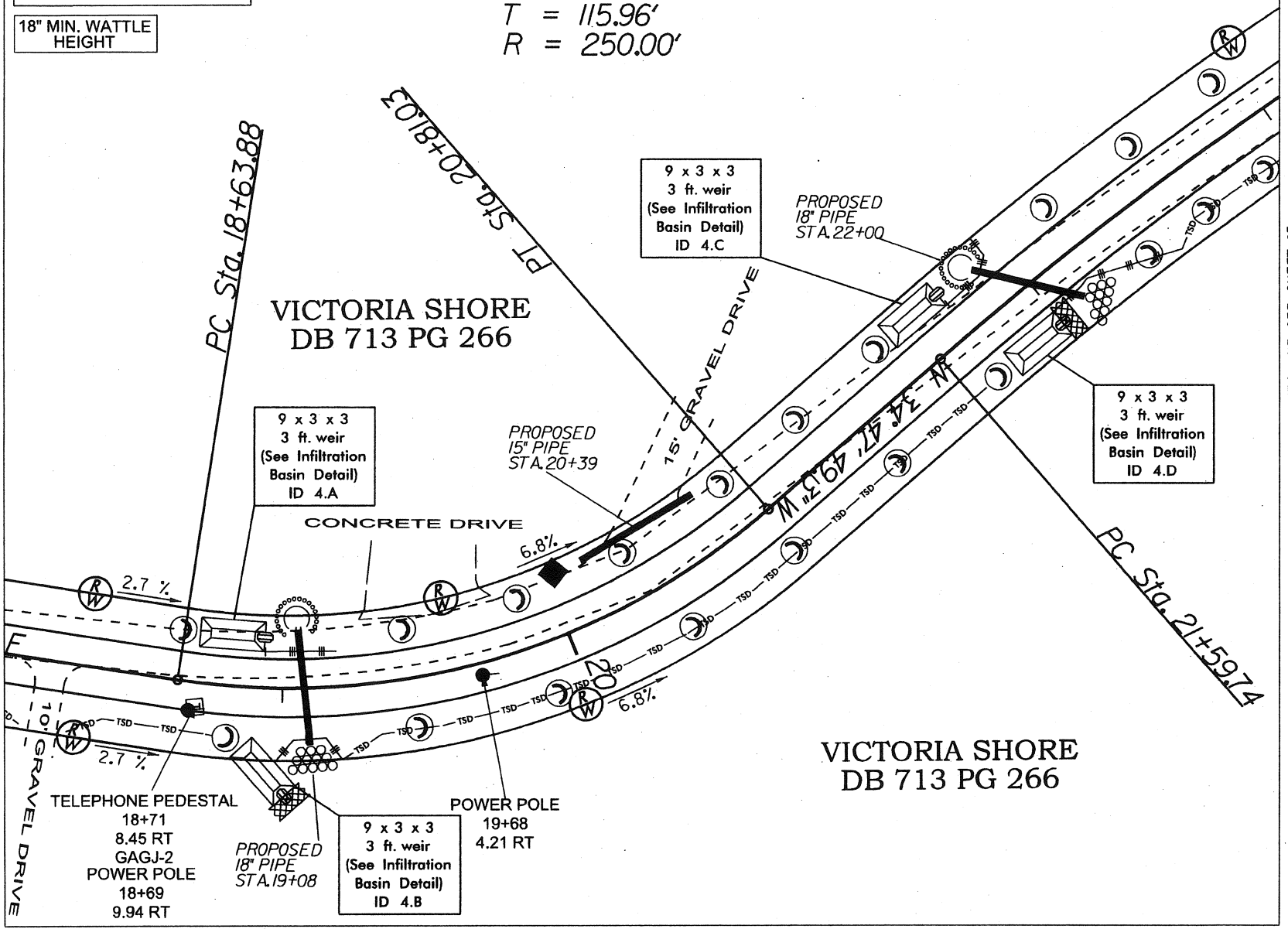
18" MIN. WATTLE
HEIGHT

PI Sta 19+79.84
 $\Delta = 49^\circ 46' 01.8''$ (LT)
 $D = 22^\circ 55' 05.9''$
 $L = 217.15'$
 $T = 115.96'$
 $R = 250.00'$



MATCHLINE SEE SHEET *3

MATCHLINE SEE SHEET *5



TELEPHONE PEDESTAL
 18+71
 8.45 RT
 GAGJ-2
 POWER POLE
 18+69
 9.94 RT

POWER POLE
 19+68
 4.21 RT

ALL BASIN'S 10'-20'
IN LENGTH REQUIRE
2 COIR FIBER BAFFLES.
BASIN'S LESS THAN 10'
REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

18" MIN. WATTLE
HEIGHT



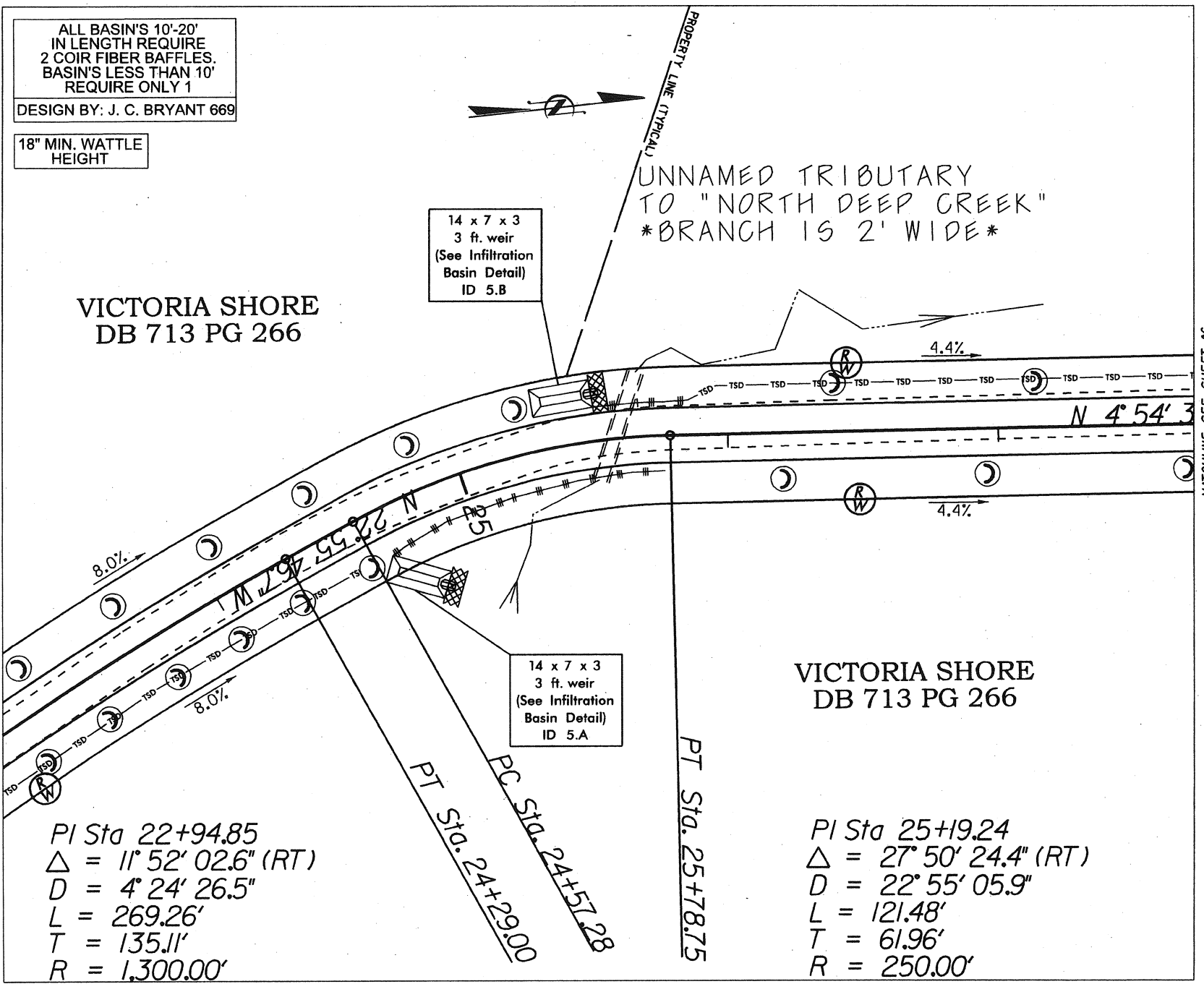
UNNAMED TRIBUTARY
TO "NORTH DEEP CREEK"
BRANCH IS 2' WIDE

14 x 7 x 3
3 ft. weir
(See Infiltration
Basin Detail)
ID 5.B

VICTORIA SHORE
DB 713 PG 266

MATCHLINE SEE SHEET *4

MATCHLINE SEE SHEET *6



14 x 7 x 3
3 ft. weir
(See Infiltration
Basin Detail)
ID 5.A

VICTORIA SHORE
DB 713 PG 266

PI Sta 22+94.85
 $\Delta = 11^\circ 52' 02.6''$ (RT)
 $D = 4^\circ 24' 26.5''$
 $L = 269.26'$
 $T = 135.11'$
 $R = 1,300.00'$

PT Sta. 24+29.00
 PC Sta. 24+57.28

PT Sta. 25+78.75

PI Sta 25+19.24
 $\Delta = 27^\circ 50' 24.4''$ (RT)
 $D = 22^\circ 55' 05.9''$
 $L = 121.48'$
 $T = 61.96'$
 $R = 250.00'$

ALL BASIN'S 10'-20'
IN LENGTH REQUIRE
2 COIR FIBER BAFFLES.
BASIN'S LESS THAN 10'
REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

18" MIN. WATTLE
HEIGHT

9 x 3 x 3
3 ft. weir
(See Infiltration
Basin Detail)
ID 6.C

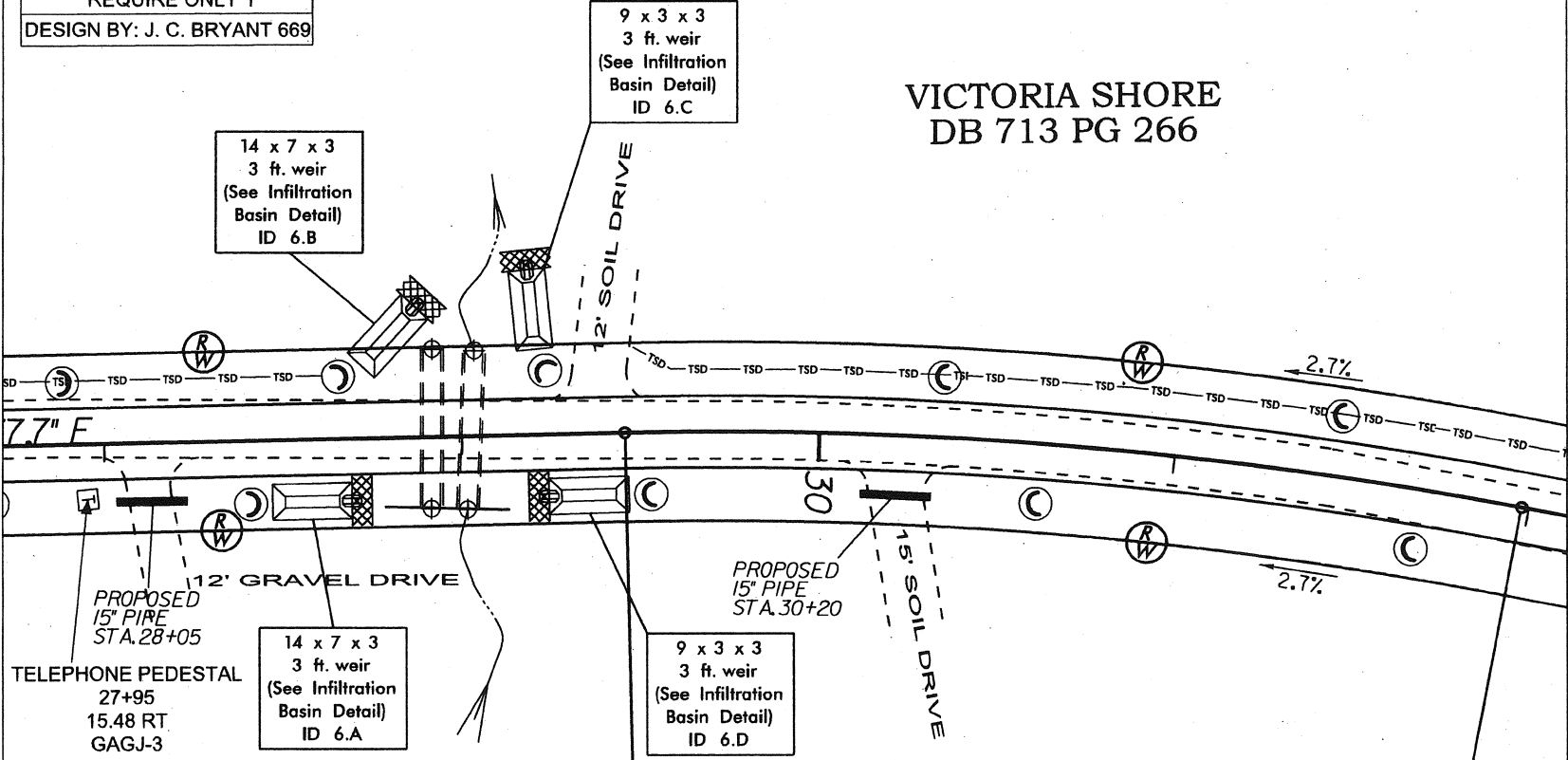
14 x 7 x 3
3 ft. weir
(See Infiltration
Basin Detail)
ID 6.B

VICTORIA SHORE
DB 713 PG 266



MATCHLINE SEE SHEET #5

MATCHLINE SEE SHEET #7



TELEPHONE PEDESTAL
27+95
15.48 RT.
GAGJ-3

14 x 7 x 3
3 ft. weir
(See Infiltration
Basin Detail)
ID 6.A

9 x 3 x 3
3 ft. weir
(See Infiltration
Basin Detail)
ID 6.D

UNNAMED TRIBUTARY
TO "NORTH DEEP CREEK"
CREEK IS 4' WIDE

VICTORIA SHORE
DB 713 PG 266

PC Sta. 29+45.40

PT Sta. 31+97.98

PI Sta 30+72.16
 $\Delta = 12^{\circ} 03' 34.7''$ (RT)
 $D = 4^{\circ} 46' 28.7''$
 $L = 252.58'$
 $T = 126.76'$
 $R = 1,200.00'$

ALL BASIN'S 10'-20'
IN LENGTH REQUIRE
2 COIR FIBER BAFFLES.
BASIN'S LESS THAN 10'
REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

18" MIN. WATTLE
HEIGHT



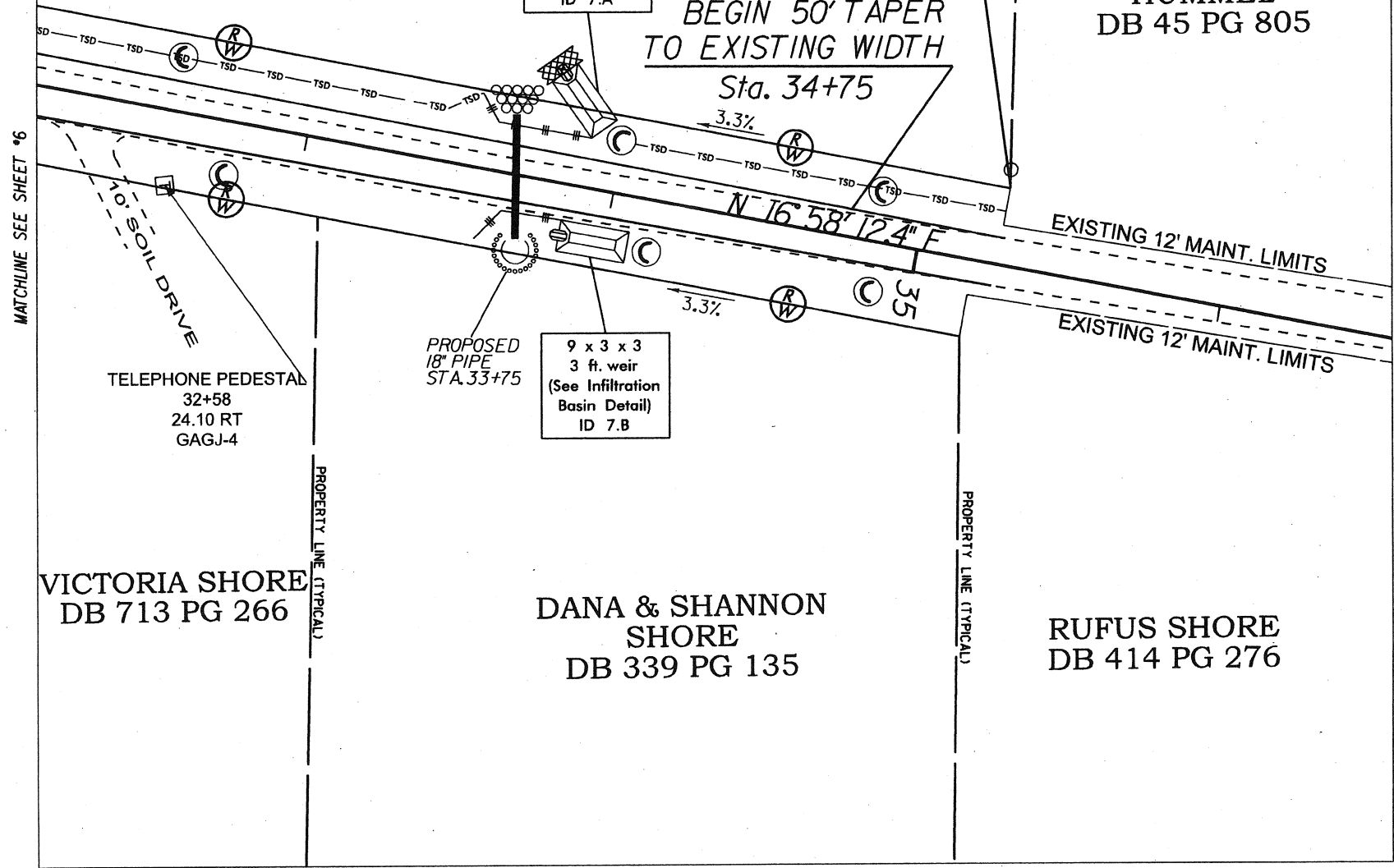
VICTORIA SHORE
DB 713 PG 266

9 x 3 x 3
3 ft. weir
(See Infiltration
Basin Detail)
ID 7.A

END CONSTRUCTION
Sta. 35+26.15

BEGIN 50' TAPER
TO EXISTING WIDTH
Sta. 34+75

ELIZABETH & LESLIE
HUMMEL
DB 45 PG 805



MATCHLINE SEE SHEET #6

MATCHLINE SEE SHEET #8

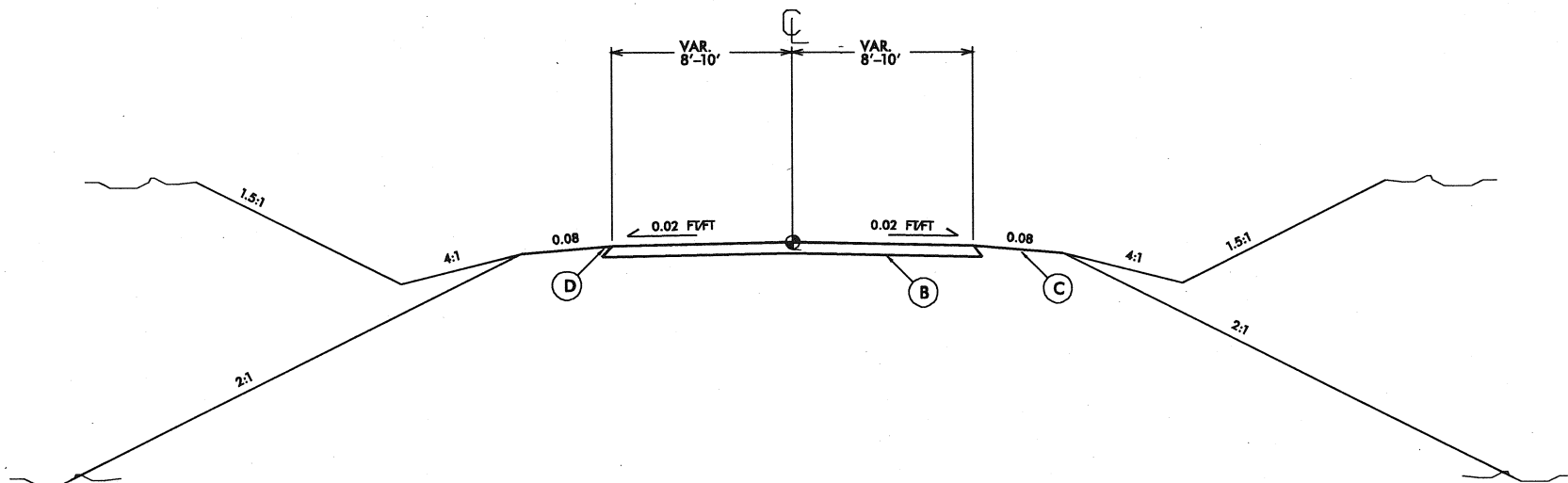
PROPERTY LINE (TYPICAL)

PROPERTY LINE (TYPICAL)

VICTORIA SHORE
DB 713 PG 266

DANA & SHANNON
SHORE
DB 339 PG 135

RUFUS SHORE
DB 414 PG 276



B 8" (compacted) ABC

C Shoulder varies: Cut side = 4' shoulder on .08 ft/ft
 transition to a 4:1 slope for a distance of 4'
 to center of the ditch line
 Fill side = 6' to shoulder break

D Base should be 1' wider than
 overall proposed road width

Construction Sheet #		2	3	3*4	4	4*5	5*6	6*7	7
Construction Line (-L,-Y-,etc.)		L	L	L	L	L	L	L	L
Left or Right (LT.,RT.,Median)		LT/RT	LT/RT	LT/RT	LT/RT	LT/RT	LT/RT	LT/RT	LT/RT
Upper Station No.		1000	1350	1650	1908	2200	2560	2900	3375
Upper Station Elevation (ft.)		1000	993	976	969	949	920	905	918
Lower Station No.		1350	1650	1908	2200	2560	2900	3375	3526
Lower Station Elevation (ft.)		993	976	969	949	920	905	918	923
Design Ditch Flow Depth (ft.)		0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Actual Ditch Depth (ft.)		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Frontslope Grade (i.e. 2 for 2:1)		4	4	4	4	4	4	4	4
Backslope Grade (i.e. 2 for 2:1)		2	2	2	2	2	2	2	2
Base Width (ft., 0 for V-Ditches)		0	0	0	0	0	0	0	0
Measured Ditchline Length (ft.)		350	300	258	292	360	340	475	151
Ditch Grade (%)		2	5.67	2.71	6.85	8.06	4.41	2.74	3.31
Velocity (ft/s)		2.65	4.46	3.09	4.91	5.32	3.94	3.1	3.41
Shear Stress in Ditch (lb/ft ²)		0.41	1.17	0.56	1.41	1.66	0.91	0.56	0.68
Ditch Liner Requirement		MATTING	PSRM	MATTING	PSRM	RIPRAP	PSRM	MATTING	MATTING
Matting Quantity (yd ²)		445	0	325	0	0	0	600	195
PSRM Matting Quantity (yd ²)		0	380	0	370	0	430	0	0

FENCE LINE DATA SHEET

ROAD NAME :SR 1505 "VALLIE RD" YADKIN COUNTY

STATION	STATION	RT. / LT.	FUNC. / NONFUNC.	TYPE OF FENCE
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NO FENCE LINE ON THIS PROJECT