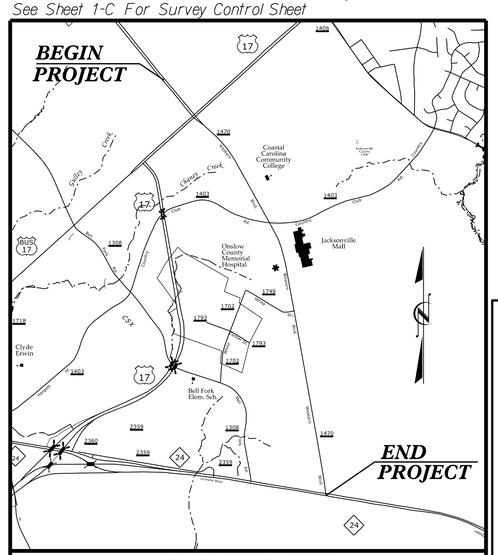
09/08/99

CONTRACT: TIP PROJECT: U-4007E /U-5736

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Plan Sheet Symbols
See Sheet 1-C For Survey Control Sheet



VICINITY MAP

25% SUBMITTAL

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ONSLOW COUNTY

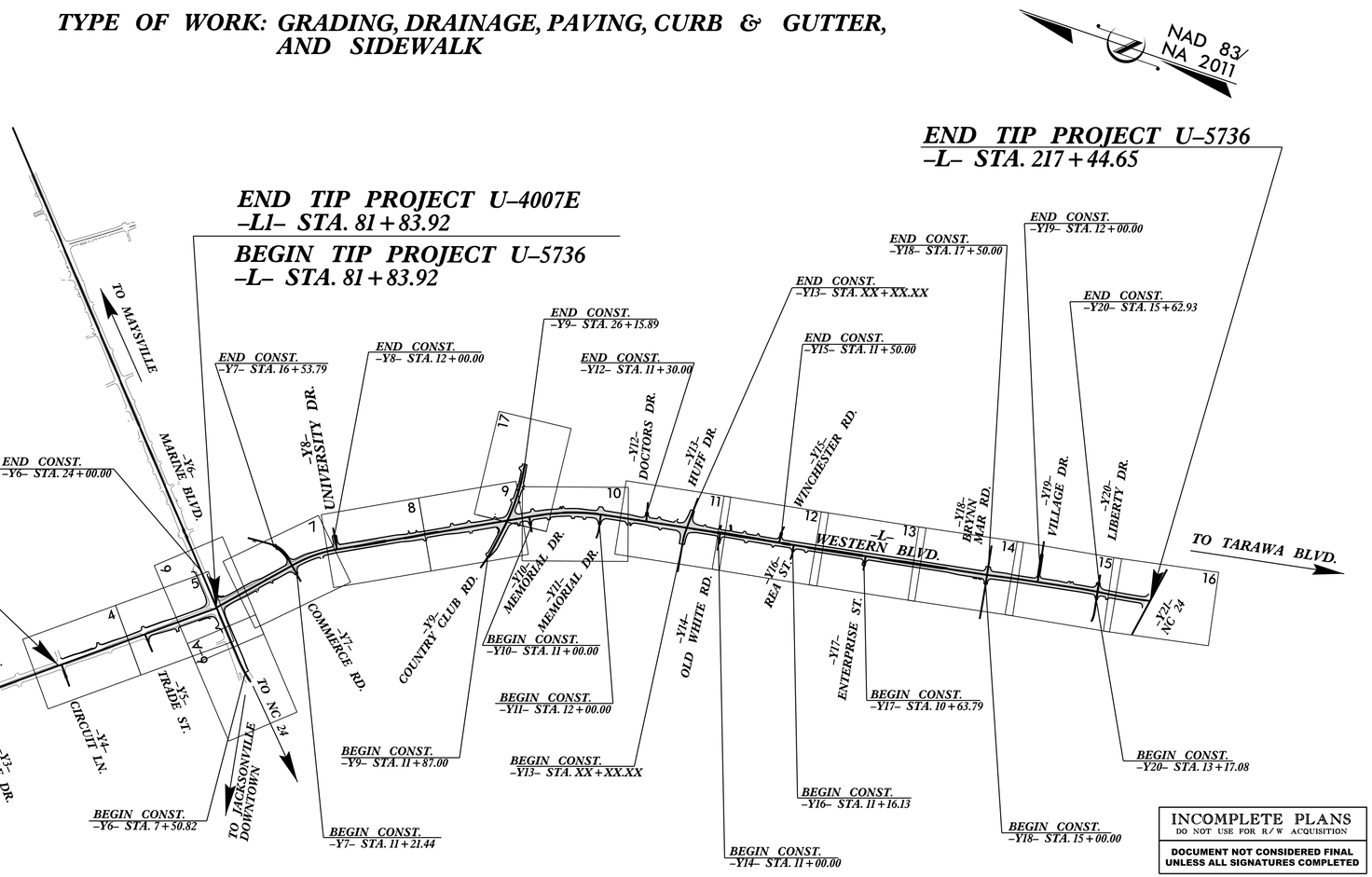
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4007E /U-5736	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
35008.1.FS8	NHPF-0017(143_	PE
54026.1.1	N/A	PE

LOCATION: *NC 53 (WESTERN BLVD.) FROM US 17 (MARINE BLVD.) TO NC 24 (LEJEUNE BLVD.)*

TYPE OF WORK: *GRADING, DRAINAGE, PAVING, CURB & GUTTER, AND SIDEWALK*

NAD 83/NA 2011

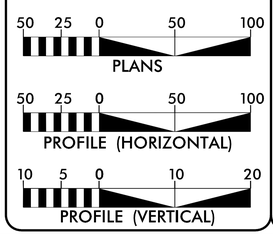


INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD .
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF JACKSONVILLE.

GRAPHIC SCALES



DESIGN DATA

ADT 2021 = 54,400
ADT 2040 = 55,200
K = 55 %
D = 10 %
T = 10 % *
V = 50 MPH
* TTST = 1% DUAL 2%

FUNC CLASS = "MINOR ARTERIAL"

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-4007E = 0.452 MILES
LENGTH ROADWAY TIP PROJECT U-5736 = 2.568 MILES

TOTAL LENGTH TIP PROJECTS U-4007E /U-5736 = 3.020 MILES

Prepared in the Office of:
WETHERILL ENGINEERING
1223 Jones Franklin Rd. Raleigh, N.C. 27606
License No. F-0377
Bus: 919.851.8077 Fax: 919.851.8107

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JULY 12, 2020

LETTING DATE: MAY 20, 2021

NCDOT CONTACT: TRACE R. HOWELL, PE
DIVISION 3 DDC ENGINEER

Prepared for:
DIVISION OF HIGHWAYS DIVISION 3
5501 Barbados Boulevard Castle Hayne NC, 28249

EDWARD G. WETHERILL, PE
PROJECT ENGINEER

GREG S. PURVIS, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

2/22/2017
...\Roadway\Proj\U5736_Rdy_tsh.dgn
USER:Keys

12/2/2016

PROJECT REFERENCE NO.	SHEET NO.
U-4000E / U-5736	1B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale **S.U.E. = Subsurface Utility Engineering*

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Computed Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Existing Historic Property Boundary — HPB
- Known Contamination Area: Soil — S
- Potential Contamination Area: Soil — S
- Known Contamination Area: Water — W
- Potential Contamination Area: Water — W
- Contaminated Site: Known or Potential

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY & PROJECT CONTROL:

- Secondary Horiz and Vert Control Point
- Primary Horiz Control Point
- Primary Horiz and Vert Control Point
- Exist Permanent Easement Pin and Cap
- New Permanent Easement Pin and Cap
- Vertical Benchmark
- Existing Right of Way Marker
- Existing Right of Way Line
- New Right of Way Line — RW
- New Right of Way Line with Pin and Cap — RW
- New Right of Way Line with Concrete or Granite R/W Marker — RW
- New Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- New Control of Access — CA
- Existing Easement Line — E
- New Temporary Construction Easement — E
- New Temporary Drainage Easement — TDE
- New Permanent Drainage Easement — PDE
- New Permanent Drainage / Utility Easement — DUE
- New Permanent Utility Easement — PUE
- New Temporary Utility Easement — TUE
- New Aerial Utility Easement — AUE

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- U/G Power Line LOS B (S.U.E.*) — P
- U/G Power Line LOS C (S.U.E.*) — P
- U/G Power Line LOS D (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- U/G Telephone Cable LOS B (S.U.E.*) — T
- U/G Telephone Cable LOS C (S.U.E.*) — T
- U/G Telephone Cable LOS D (S.U.E.*) — T
- U/G Telephone Conduit LOS B (S.U.E.*) — TC
- U/G Telephone Conduit LOS C (S.U.E.*) — TC
- U/G Telephone Conduit LOS D (S.U.E.*) — TC
- U/G Fiber Optics Cable LOS B (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS C (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS D (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- U/G Water Line LOS B (S.U.E*) — W
- U/G Water Line LOS C (S.U.E*) — W
- U/G Water Line LOS D (S.U.E*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- U/G TV Cable LOS B (S.U.E.*) — TV
- U/G TV Cable LOS C (S.U.E.*) — TV
- U/G TV Cable LOS D (S.U.E.*) — TV
- U/G Fiber Optic Cable LOS B (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS C (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS D (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- U/G Gas Line LOS B (S.U.E.*) — G
- U/G Gas Line LOS C (S.U.E.*) — G
- U/G Gas Line LOS D (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- SS Forced Main Line LOS B (S.U.E.*) — FSS
- SS Forced Main Line LOS C (S.U.E.*) — FSS
- SS Forced Main Line LOS D (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line LOS B (S.U.E.*) — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole LOS A (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-4000157365736	2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

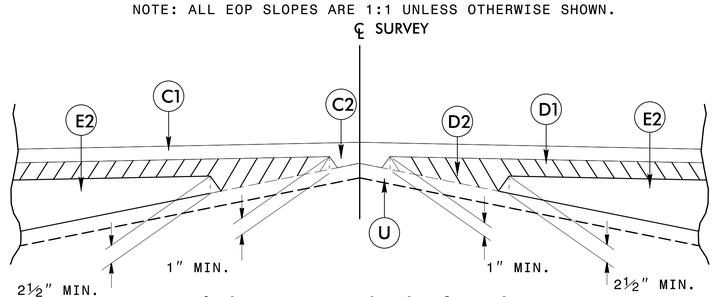
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

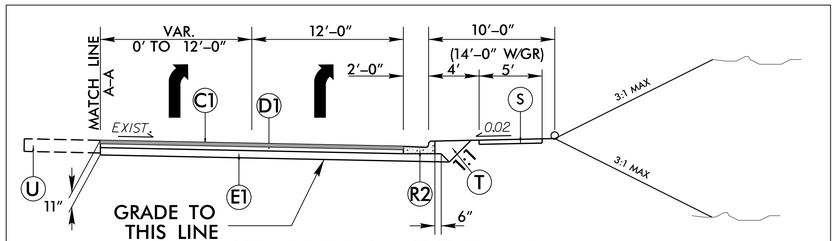
PAVEMENT SCHEDULE

C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R2	2'-6" CONCRETE CURB AND GUTTER.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	R3	5" RAISED MONOLITHIC CONCRETE ISLAND. (SURFACE ACE MOUNTED)
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD.	R4	EXISTING CURB & GUTTER
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.	S	4" CONCRETE SIDEWALK.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	T	EARTH MATERIAL.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0\B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.	U	EXISTING PAVEMNET.
R1	1'-6" CONCRETE CURB AND GUTTER.	V	VARIABLE MILLING.
		W	VARIABLE DEPTH WEDGING.

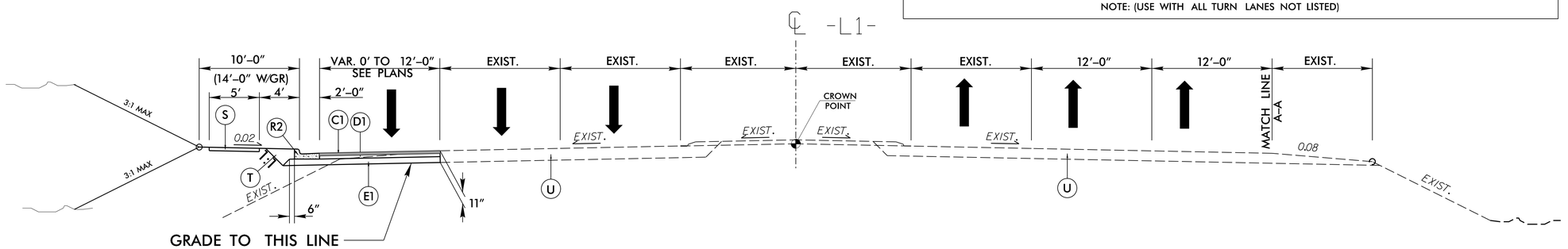
NOTE: ALL EOP SLOPES ARE 1:1 UNLESS OTHERWISE SHOWN.



Detail Showing Method of Wedging



USE WITH TYPICAL SECTION NO. 1
-L1- RT. STA. 71+20.26 TO 80+69.94
NOTE: (USE WITH ALL TURN LANES NOT LISTED)



TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1
-L1- LT. 58+66.83 TO STA. 80+24.49

6/2/99

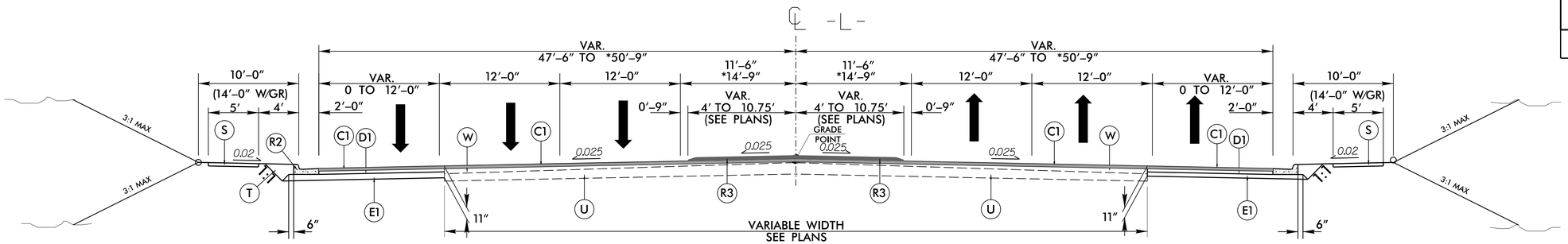
2/22/2017
...\Proj\U-5736_Rdy_PSH_02A-1.dgn
USER:Fkeus

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	2A-2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

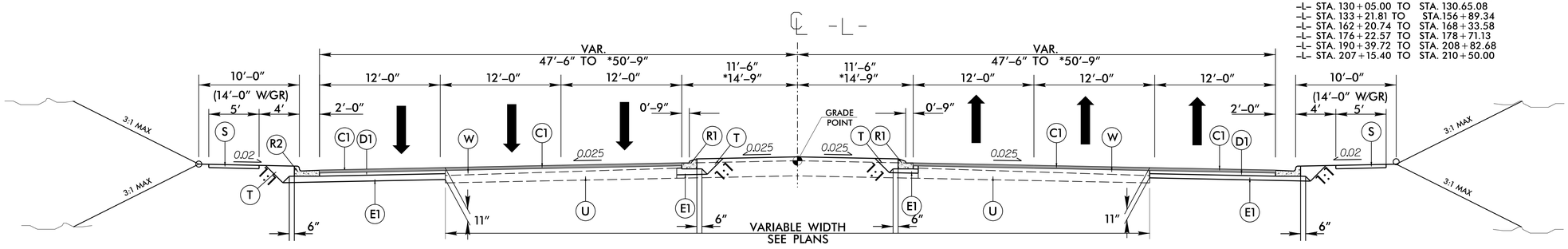
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2

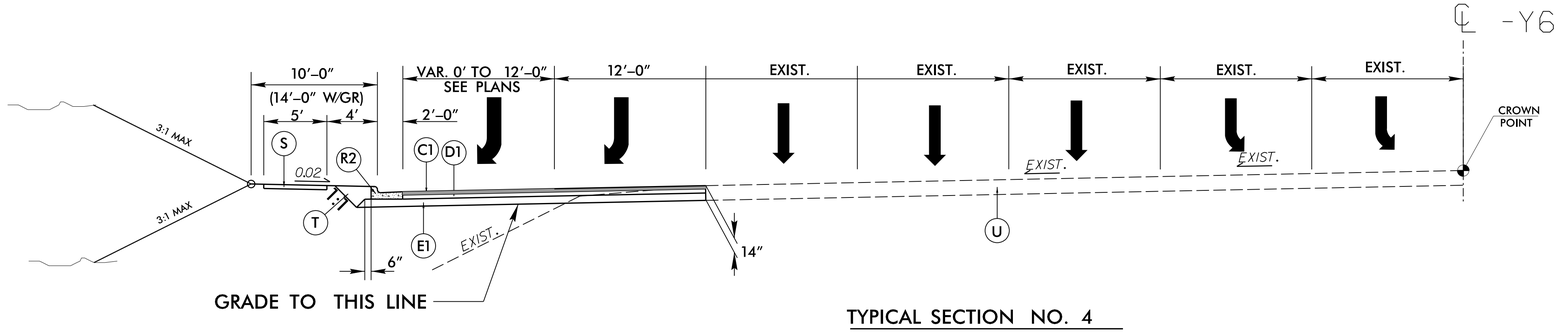
* -L- STA. 82+32.19 TO STA. 87+68.57
-L- STA. 91+01.14 TO STA. 103+27.83
-L- STA. 107+90.06 TO TA. 110+49.25
-L- STA. 115+38.98 TO STA. 119+42.63
* -L- STA. 119+42.63 TO STA. 130+05.00
-L- STA. 130+05.00 TO STA. 130.65.08
-L- STA. 133+21.81 TO STA.156+89.34
-L- STA. 162+20.74 TO STA. 168+33.58
-L- STA. 176+22.57 TO STA. 178+71.13
-L- STA. 190+39.72 TO STA. 208+82.68
-L- STA. 207+15.40 TO STA. 210+50.00



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3

* -L- STA. 87+68.57 TO STA. 89+81.01
-L- STA. 89+81.01 TO STA. 91+01.14
-L- STA. 103+27.83 TO STA. 107+90.06
-L- STA. 110+49.25 TO STA. 115+38.98
-L- STA. 130+65.08 TO STA. 133+21.81
-L- STA. 156+89.34 TO STA. 162+20.74
-L- STA. 168+33.58 TO STA. 176+22.57
-L- STA. 178+71.13 TO STA. 190+39.72
-L- STA. 203+82.68 TO STA. 207+15.40



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4

-Y6- LT. STA. 18+62.55 TO STA. 23+62.62

PAVEMENT SCHEDULE	
C1	3" S9.5B
C2	VAR. S9.5B
D1	4" I19.5B
D2	VAR. I19.0B
E1	4" B25.0B
E2	VAR. B25.0B
R1	1"x6" CURB
R2	2"x6" CURB
R3	5" CONC. ISLAND
R4	EXIST. C & G
S	4" SIDEWALK
T	EARTH MAT.
U	EXIST. PAV.
V	VAR. MILLING
W	WEDGING

6/2/99

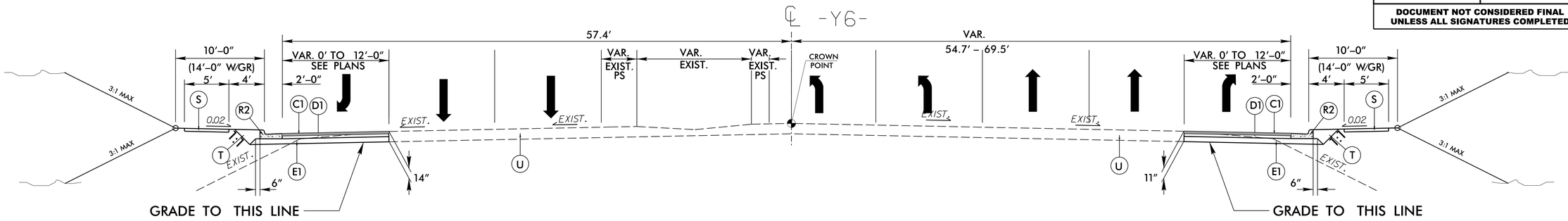
2/22/2017
...\Proj\U-5736_Rdy_PSH_02A-2.dgn
USER:Ekeus

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	2A-3
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

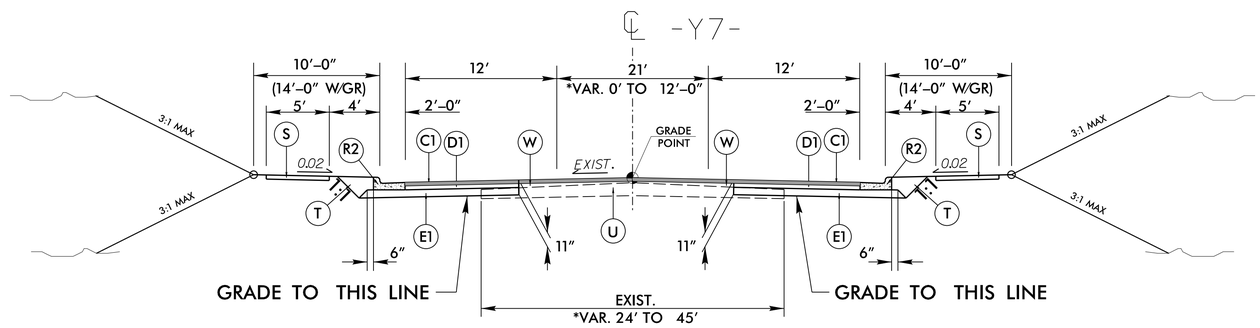
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



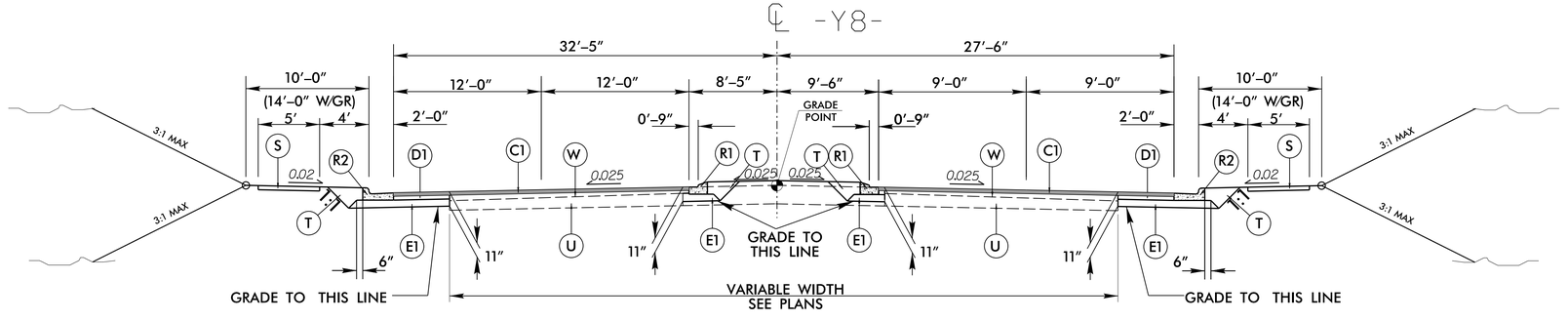
TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5
-Y6- RT. STA. 7+50.82 TO STA. 16+66.55
-Y6- RT. STA. 19+17.24 TO STA. 22+23.05
-Y6- LT. STA. 15+00.00 TO STA. 16+52.53



TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5
-Y7- STA. 11+21.44 TO STA. 13+68.21
* -Y7- STA. 13+08.48 TO STA. 16+53.79



TYPICAL SECTION NO. 6

USE TYPICAL SECTION NO. 6
-Y8- STA. 10+47.50 TO STA. 12+00.00

PAVEMENT SCHEDULE	
C1	3" S9.5B
C2	VAR. S9.5B
D1	4" I19.5B
D2	VAR. I19.0B
E1	4" B25.0B
E2	VAR. B25.0B
R1	1"x6" CURB
R2	2"x6" CURB
R3	5" CONC. ISLAND
R4	EXIST. C & G
S	4" SIDEWALK
T	EARTH MAT.
U	EXIST. PAV.
V	VAR. MILLING
W	WEDGING

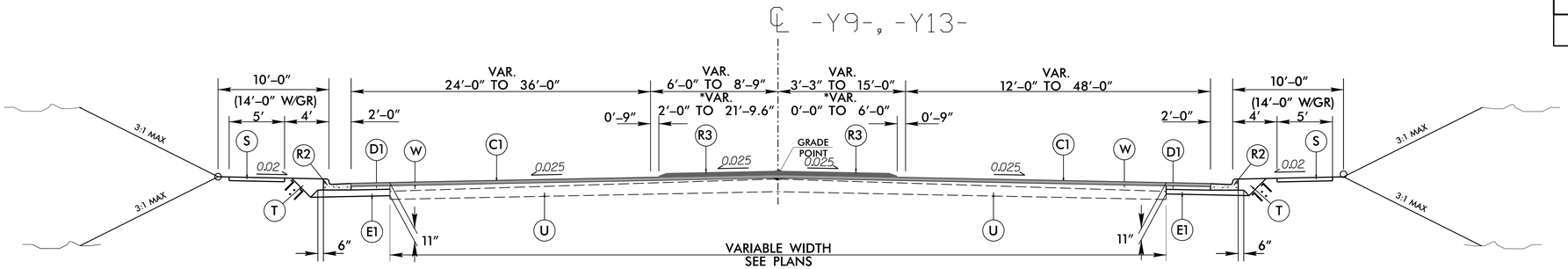
6/2/99
2/22/2017
...\Proj\U-5736_Rdy_PSH_02A-3.dgn
USER:Ekeus

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	2A-4
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

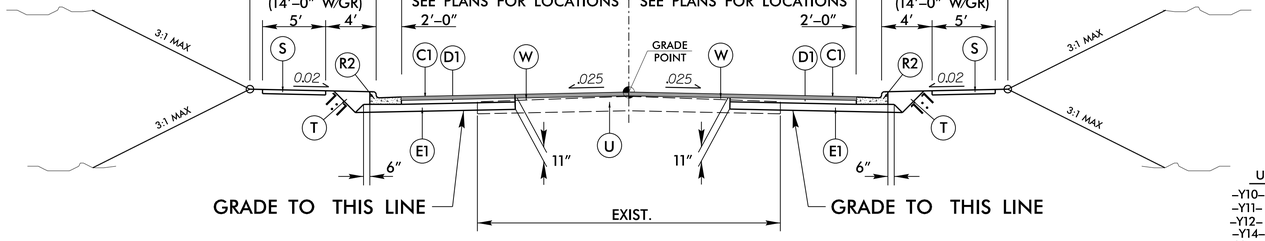
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



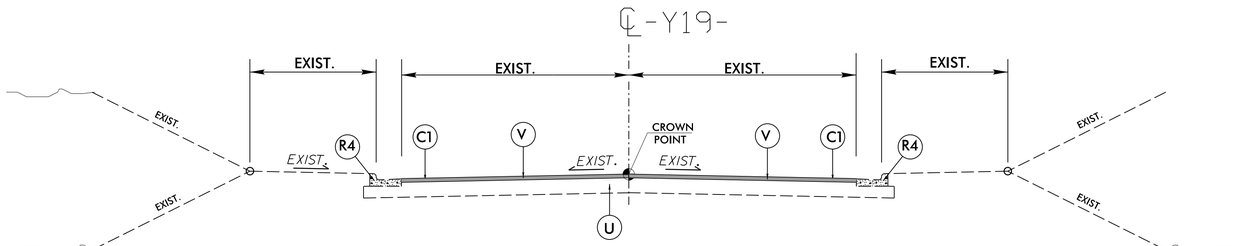
TYPICAL SECTION NO. 7

USE TYPICAL SECTION NO. 7
–Y9– STA. 11+87.00 TO STA. 26+15.88
–Y9– STA. 18+33.51 TO STA. 16+53.79
*–Y13– STA. 14+14.64 TO STA. 15+93.70
*–Y13– STA. 16+90.67 TO STA. 18+74.17



TYPICAL SECTION NO. 8

USE TYPICAL SECTION NO. 8
–Y10– STA. 11+00.00 TO STA. 11+69.70
–Y11– STA. 12+00.00 TO STA. 12+98.04
–Y12– STA. 10+47.62 TO STA. 11+30.00
–Y14– STA. 11+00.00 TO STA. 12+05.67
–Y15– STA. 10+47.59 TO STA. 11+50.00
–Y16– STA. 11+16.13 TO STA. 11+66.72
–Y17– STA. 10+63.79 TO STA. 11+60.12
–Y18– STA. 15+00.00 TO STA. 15+84.37
–Y18– STA. 16+31.87 TO STA. 17+50.00
–Y19– STA. 10+47.50 TO STA. 12+00.00
–Y20– STA. 13+17.08 TO STA. 13+83.71
–Y20– STA. 14+78.82 TO STA. 15+62.93



TYPICAL SECTION NO. 9

USE TYPICAL SECTION NO. 9
–Y19– STA. 12+00.00 TO STA. 14+00.00

PAVEMENT SCHEDULE

C1	3″ S9.5B
C2	VAR. S9.5B
D1	4″ I19.5B
D2	VAR. I19.0B
E1	4″ B25.0B
E2	VAR. B25.0B
R1	1″x6″ CURB
R2	2″x6″ CURB
R3	5″ CONC. ISLAND
R4	EXIST. C & G
S	4″ SIDEWALK
T	EARTH MAT.
U	EXIST. PAV.
V	VAR. MILLING
W	WEDGING

6/2/99

2/22/2017
U-5736_Rdy_PSH_02A-4.dgn
USER:kevins

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-4007E	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS
8/17/99

NAD 83/2011

MATCH LINE -L1- STA. 69+00.00 SEE SHEET 5

-L1- STA. 58+00.00
BEGIN TIP PROJECT U-4007E

SAMS REAL EST. BUSINESS TRUST
DB 1868 PG 715
PB 30 PG 76

STEPHEN RUDOLPH
DB 3163 PG 1
PB 32 PG 119

BAR/X JACKSONVILLE, LLC
DB 2759 PG 543
PB 32 PG 119

THE JAMES N. SMOAK CO.
MB 30 PG 7
DB 1087 PG 798
RETENTION POND

TIE TO EXIST. C&G
R=30'
TIE TO EXIST. C&G
R=50'
R=50'

150' RT FULL LANE
150' RT TAPER
150' RT FULL LANE
150' RT TAPER

PROP. 2'6" C&G

TO GUM BRANCH RD.

WESTERN BLVD

-L1- S 38°57'37.7" E

70'
58'
10'
PS
48'
36'
38.44

GRASS MEDIAN

-L1- POT Sta. 58+43.69
-Y4- POT Sta. 13+29.94

-Y4- POT Sta. 10+00.00

NAVY FEDERAL CREDIT UNION
DB 3389 PG 351
PB 31 PG 171

DAY VENTURES, INC
DB 2513 PG 344
MB 34 PG 216

MCDONALDS CORPORATION
DB 1204 PG 501
MB 34 PG 216

TUTTLE ENTERPRISES, LLC
DB 2631 PG 240
PB 28 PG 60

GOODWILL COMMUNITY FOUNDATION
DB 1676 PG 345
PB 34 PG 72

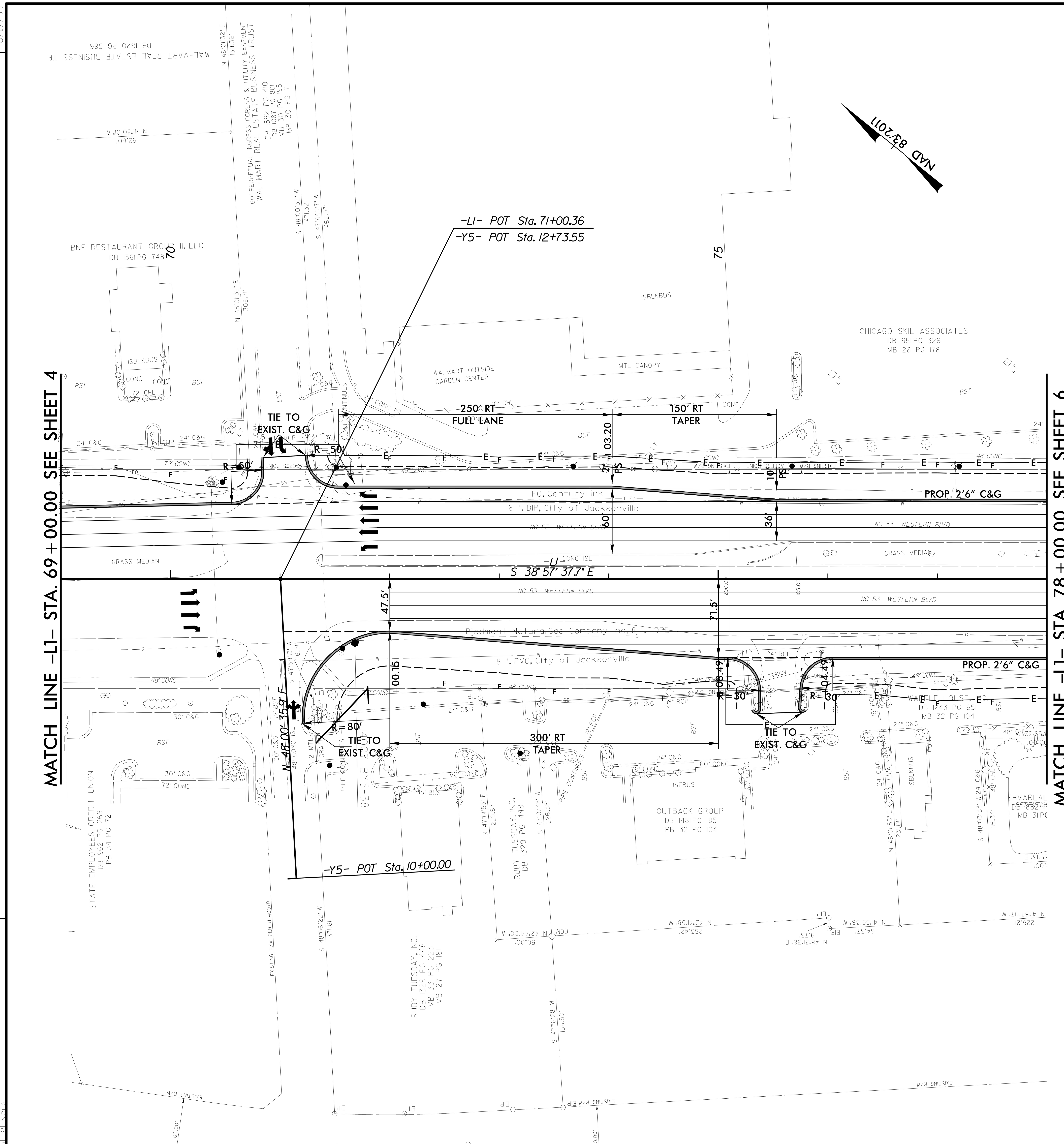
STATE EMPLOYEES CREDIT UNION
DB 962 PG 269
PB 34 PG 72

U-4007-SIA

EXISTING R/W

FOR -L1- PROFILE, SEE SHEET NO. 18

2/28/2017
USER:Paul.Wetherill
USERFILE:pw5736_rdy_psh_04.dgn



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-4007E	5

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

8/17/99

2/22/2017
\Proj\u5736_rdy_psh_05.dgn

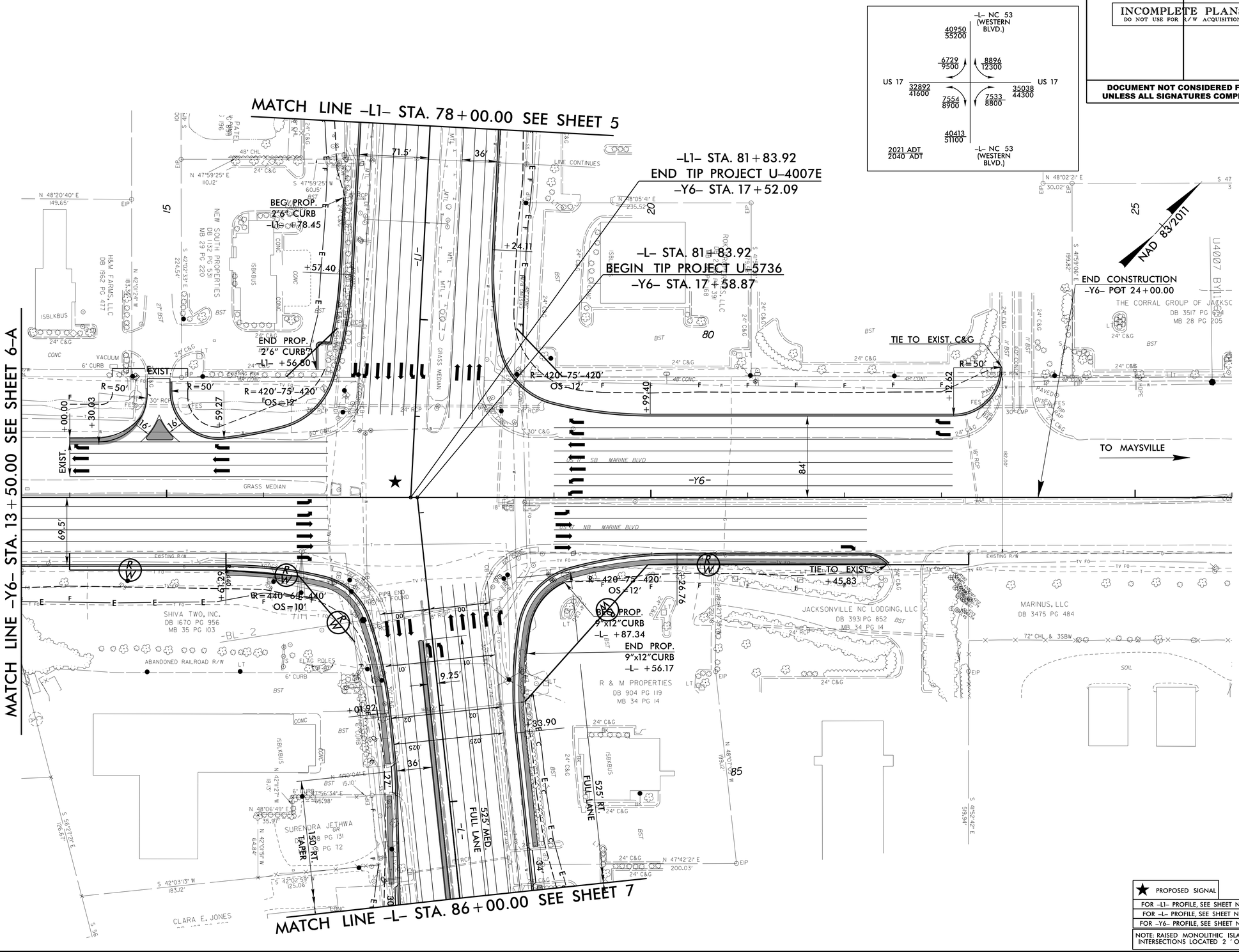
FOR -L1- PROFILE, SEE SHEET NO. 18

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-4007E /U-5736	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



★ PROPOSED SIGNAL

FOR -L1- PROFILE, SEE SHEET NO. 18
FOR -L- PROFILE, SEE SHEET NO. 19
FOR -Y6- PROFILE, SEE SHEET NO. 25

NOTE: RAISED MONOLITHIC ISLANDS AT INTERSECTIONS LOCATED 2' OFF EOT

REVISIONS

8/17/99

2/22/2017
...\Proj\u5736_rdy_psh_06.dgn
USER:Fkeus

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-4007E /U-5736	6-A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

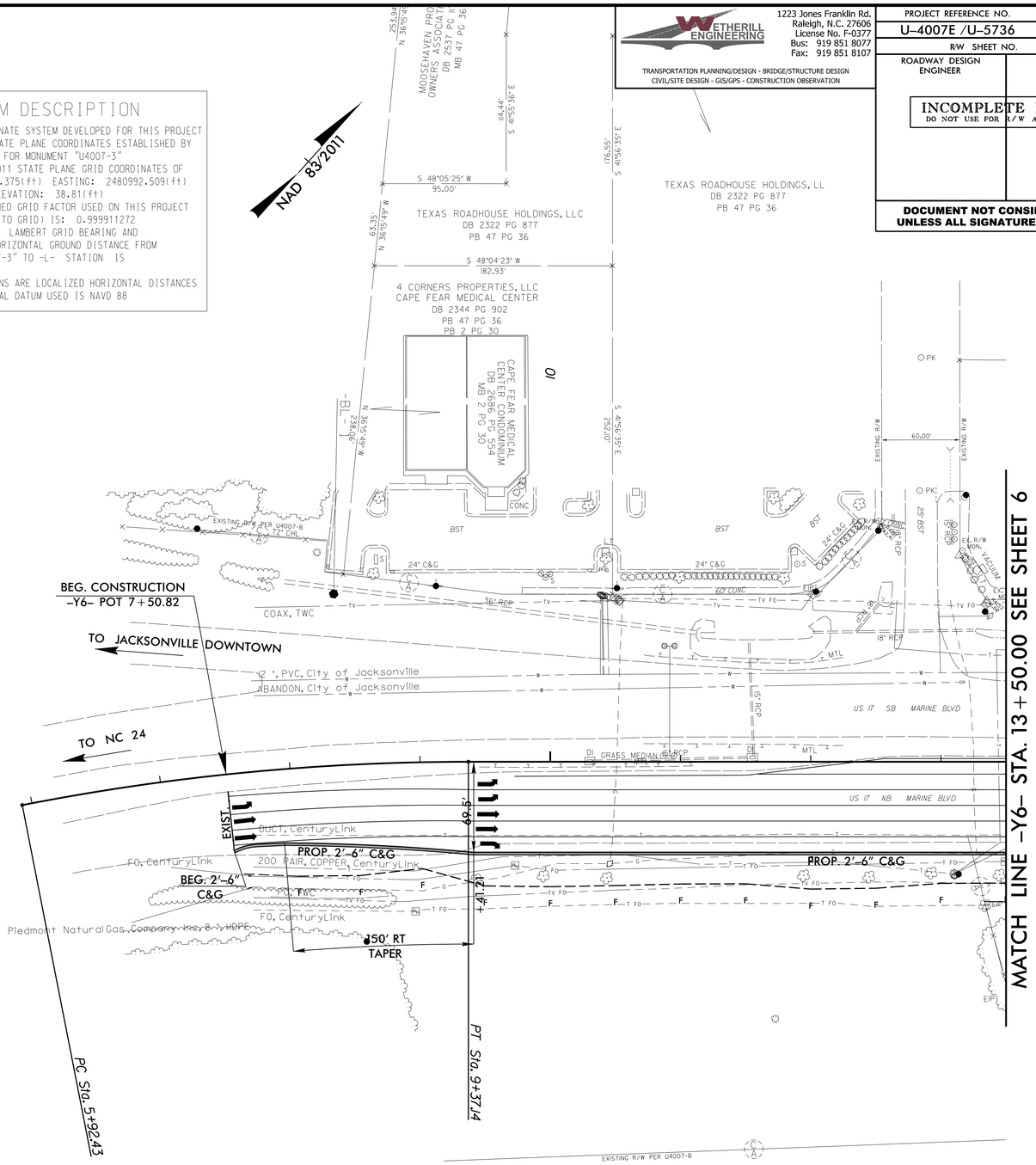
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U4007-3"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 376224.375(ft) EASTING: 2480992.509(ft)
ELEVATION: 38.81(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999911272
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U4007-3" TO -L- STATION IS

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



-Y6-
PI Sta 7+65.33
△ = 11° 05' 44.7" (RT)
D = 3° 13' 07.9"
L = 344.71'
T = 172.90'
R = 1,780.00'
SE = EXIST.
DS = 45MPH

FOR -Y6- PROFILE, SEE SHEET NO. 25

NOTE: RAISED MONOLITHIC ISLANDS AT INTERSECTIONS LOCATED 2' OFF EOT

REVISIONS

8/17/99

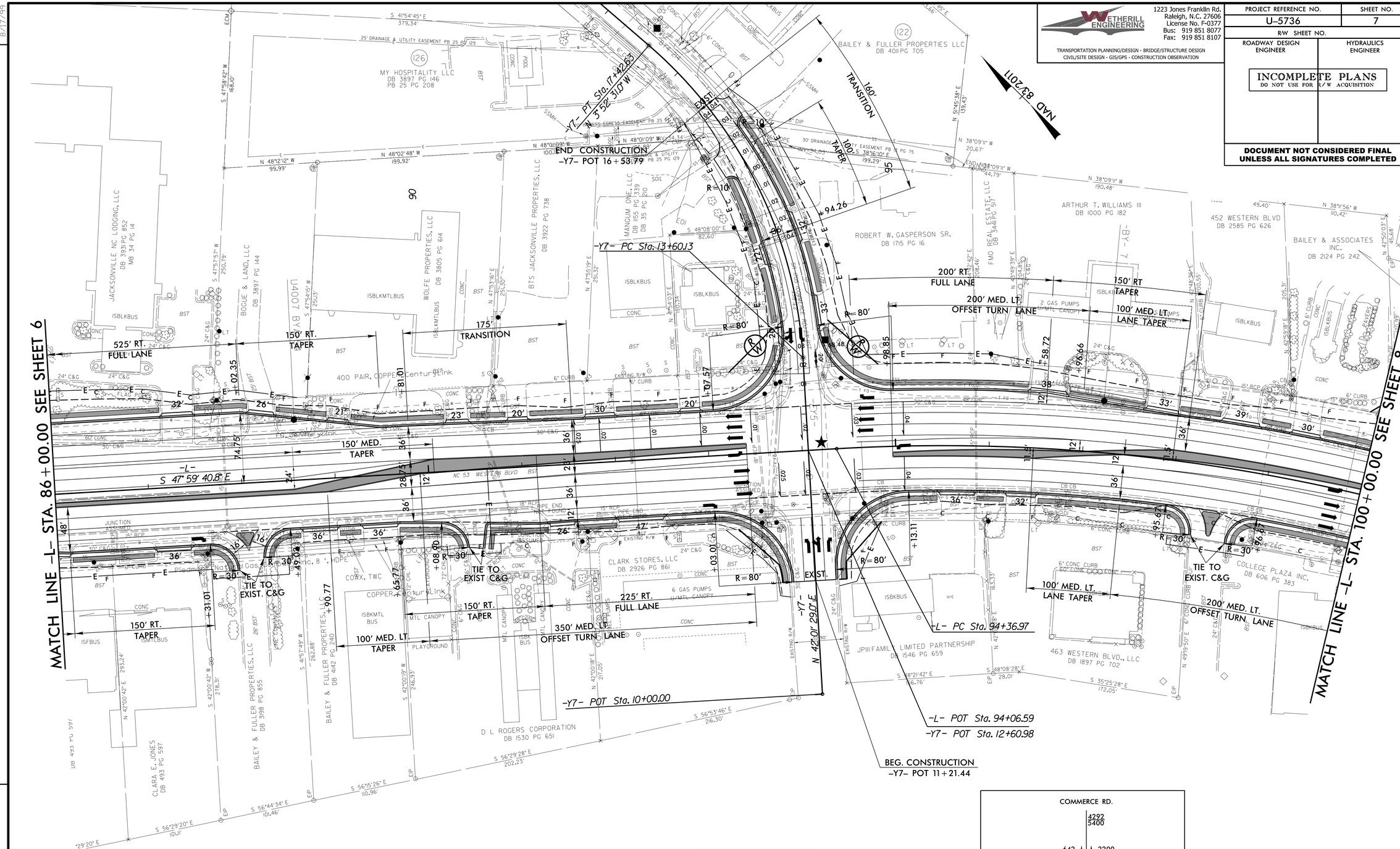
2/22/2017
...\Proj\u5736_rdy_psh_06a.dgn
USER:Fkeus

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

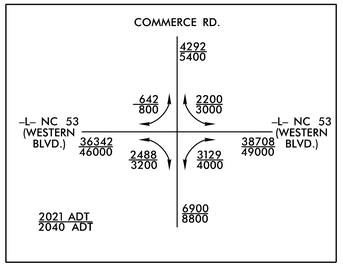
PROJECT REFERENCE NO.	SHEET NO.
U-5736	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



-L-	-Y7-
PI Sta 97+69.62	PI Sta 15+62.31
Δ = 19° 27' 34.9" (RT)	Δ = 45° 54' 00.0" (LT)
D = 2° 57' 12.2"	D = 11° 59' 59.5"
L = 658.89'	L = 382.50'
T = 332.65'	T = 202.18'
R = 1,940.00'	R = 477.47'
SE = .04	SE = .04
DS = 50 MPH	DS = 40 MPH



★ PROPOSED SIGNAL

FOR -L- PROFILE, SEE SHEET NO. 19,20
FOR -Y7- PROFILE, SEE SHEET NO. 24
NOTE: RAISED MONOLITHIC ISLANDS AT INTERSECTIONS LOCATED 2' OFF EOT

REVISIONS

8/17/99

2/22/2017
...\Proj\U5736_rdy_psh_07.dgn
USER:Fkeus

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

8/17/99

REVISIONS

UNIVERSITY DR.
3892 5000
1946 2500 | 1946 2500
-L- NC 53 (WESTERN BLVD.) 40854 51700
-L- NC 53 (WESTERN BLVD.) 40854 51700
2021 ADT
2040 ADT

-L-
PI Sta 97+69.62
Δ = 19° 27' 34.9" (RT)
D = 2° 57' 12.2"
L = 658.89'
T = 332.65'
R = 1,940.00'
SE = .04
DS = 50 MPH

NAD 83/2011

-Y8- POT Sta. 13+12.81
END CONSTRUCTION
-Y8- POT 12+00.00
-L- PT Sta. 100+95.87
-L- POC Sta. 100+86.78
-Y8- POT Sta. 10+00.00
-L- PROPOSED CENTERLINE
-L- EXISTING CENTERLINE
-Y8- PROPOSED CENTERLINE
-Y8- EXISTING CENTERLINE

MATCH LINE -L- STA. 100+00.00 SEE SHEET 7

MATCH LINE -L- STA. 114+00.00 SEE SHEET 9

COASTAL CAROLINA COMMUNITY COLLEGE NDR MB 67 PG 67

550' MED. LT. OFFSET TURN LANE
500' RT FULL LANE
150' RT TAPER
150' RT FULL LANE
TIE TO EXIST. CURB
RETENTION POND
SR 1470 WESTERN BLVD
S 28°32'05.8" E
EASTERN BUILDERS INC. DB 435 PG 413
BERNARD V. ROSAGE SR DB 1266 PG 435
NAVIGATOR REAL ESTATE HOLDINGS LLC DB 3715 PG 628
CHARLES D RODGERS DB 1855 PG 482
ROSE WESTERN PLAZA LLC DB 3818 PG 876 PB 64 PG 82
COOK OUT JACKSONVILLE INC DB 3332 PG 849
DEBORAH D. ULMER 00E66 PB 61PG 55
12" PVC CITY OF JACKSONVILLE
100 PAIR COPPER, Centurylink
Transcontinental Natural Gas Company Inc. 8" HDPE

PROPOSED SIGNAL

FOR -L- PROFILE, SEE SHEET NO. 20
FOR -Y8- PROFILE, SEE SHEET NO. 24

SEE SHEET 2B-? TO 2B-? FOR INTERSECTION DETAILS

NOTE: ALL RADIUS 2' UNLESS NOTED OTERWISE

2/22/2017
U5736_rdy_psh_08.dgn
USER: rdy

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

8/17/99

REVISIONS

-Y9-

PI Sta 12+38.04
△ = 7° 36' 45.1" (LT)
D = 2° 46' 15.2"
L = 274.73'
T = 137.57'
R = 2,067.77'
SE = EXIST.
DS = EXIST.

PI Sta 21+32.17
△ = 18° 32' 09.0" (LT)
D = 1° 53' 56.8"
L = 976.03'
T = 492.31'
R = 3,016.98'
SE = .03
DS = 40 MPH

MATCH LINE -L- STA. 114+00.00 SEE SHEET 8

MATCH LINE -Y9- STA. 21+00.00 SEE SHEET 17

MATCH LINE -L- STA. 128+00.00 SEE SHEET 10

NAD 83/2011

-L- POT Sta. 125+36.24
-Y9- POT Sta. 17+72.26

BEG. CONSTRUCTION
-Y9- POT 11+86.97

-Y9- PC Sta. 11+00.47

-Y9- PT Sta. 13+75.21

PC Sta. 16+39.86

-L- S 28°32'05.8" E

S 28°40'22" W 397.17'

COUNTRY CLUB RD.

	19354 / 24500	
7100 / 9000		6558 / 8300
-L- NC 53 (WESTERN BLVD.) 46771 / 59200		46871 / 59300 -L- NC 53 (WESTERN BLVD.)
1725 / 2200		2367 / 3000
	9788 / 12400	

2021 ADT
2040 ADT

★ PROPOSED SIGNAL

FOR -L- PROFILE, SEE SHEET NO. 20, 21
FOR -Y9- PROFILE, SEE SHEET NO. 25,26

SEE SHEET 2B-? TO 2B-? FOR INTERSECTION DETAILS

NOTE: ALL RADIUS 2' UNLESS NOTED OTERWISE

2/22/2017
U-5736_rdy_psh_09.dgn
USER: eric

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

8/17/99

REVISIONS

MATCH LINE SEE SHEET 17

MATCH LINE -L- STA. 128+00.00 SEE SHEET 9

MATCH LINE -L- STA. 142+00.00 SEE SHEET 11

NAD 83/2011

135

MK MEXICO II PROPERTY OWNERS LLC
DB 4174 PG 1757
PB 42 PG 225

PR JACKSONVILLE LIMITED PARTNERSHIP
DB 1455 PG 596
PB 38 PG 046

-L- POC Sta. 138+68.20
-Y11- POT Sta. 13+45.54

TIE TO EXIST. C&G

175' TRANSITION

150' RT TAPER

400' MED. LT. OFFSET TURN LANE

346' MED. FULL LANE

4' CONC ISLAND

S 28° 32' 05.8" E

S 10° 08' 26.0" E

-L- PC Sta. 129+36.87

-L- POT Sta. 128+49.19
-Y10- POT Sta. 12+20.45

BEG. CONSTRUCTION
-Y10- POT 11+00.00

100' MED. LT TAPER

250' RT FULL LANE

500' MED. LT. OFFSET TURN LANE

-Y11- PC Sta. 10+21.03

-Y11- POT Sta. 10+00.00

S 85° 10' 43.3" E

-Y11- PT Sta. 11+30.39
N 78° 29' 11.2" E

BEG. CONSTRUCTION
-Y11- POT 12+00.00

-Y10- POT Sta. 10+00.00

-Y11- PT Sta. 9+59.44

PLAZA SHOPPING CENTER INC
DB 7019 PG 101

HAMILTON ESTATE PROPERTIES LLC
DB 4035 PG 800

SUNSKY LEASING CO LLC
DB 3699 PG 60
PB 36 PG 15

JACKSONVILLE DOCTORS PARK LLC
DB 480 PG 317

TEQUILA PROPERTIES LLC
DB 3116 PG 628
PB 43 PG 52

ONSLOW COUNTY
DB 390 PG 625

SR 1470 WESTERN BLVD

MEMORIAL DR

BM4

-L-
PI Sta 134+47.55
Δ = 18° 23' 39.8" (RT)
D = 1° 48' 59.8"
L = 1,012.57'
T = 510.68'
R = 3,154.00'
SE = .03
DS = 50 MPH

-Y11-
PI Sta 10+76.09
Δ = 16° 20' 05.1" (LT)
D = 14° 56' 10.0"
L = 109.36'
T = 55.06'
R = 383.61'
SE = EXIST.
DS = STOP CONDT.

MALL DRIVEWAY

	4513 / 5700	
-L- NC 53 (WESTERN BLVD.)	1504 / 1900	2788 / 3500
40213 / 50900	2146 / 2700	1925 / 2400
	4292 / 5400	

-L- NC 53 (WESTERN BLVD.) 41275 / 52200

2021 ADT
2040 ADT

MEMORIAL DR.

★ PROPOSED SIGNAL

FOR -L- PROFILE, SEE SHEET NO. 21
FOR -Y10- PROFILE, SEE SHEET NO. 26
FOR -Y11- PROFILE, SEE SHEET NO. 26

SEE SHEET 2B-? TO 2B-? FOR INTERSECTION DETAILS

NOTE: ALL RADIUS 2' UNLESS NOTED OTHERWISE

2/22/2017
U-5736_rdy_psh_10.dgn
USER: eaus

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

8/17/99
REVISIONS

MATCH LINE -L- STA. 142+00.00 SEE SHEET 10

MATCH LINE -L- STA. 156+00.00 SEE SHEET 12

NAD 83/2011

-Y13- POT Sta. 20+91.97

N 10°10'32" W 481.92'

R/W MON

R/W MON

RIP RAP

CONC

15" RCP

BST

CB

30" C&G

CONC

CONC

CONC

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS
8/17/99

NAD 83/2011

MATCH LINE -L- STA. 156+00.00 SEE SHEET 11

MATCH LINE -L- STA. 170+00.00 SEE SHEET 13

-Y15- PT Sta. 12+41.77
-Y15- PC Sta. 11+23.01
-Y15- POT Sta. 10+00.00
N 83° 26' 54.6" E
-L- PC Sta. 163+43.32
-L- PT Sta. 164+47.60
END CONSTRUCTION
-Y15- POT 11+50.00
550' MED. LT. OFFSET TURN LANE
-Y16- PT Sta. 11+19.22
N 79° 58' 31.8" E
-Y16- PC Sta. 10+00.00
-L- POT Sta. 166+34.91
-Y16- POT Sta. 12+14.22
BEG. CONSTRUCTION
-Y16- POT 11+16.13
-L- PT Sta. 159+62.05
TIE TO EXIST. CURB
TIE TO EXIST. C&G
EXIST. R=30'
R=30'
R=50'
R=45'

105 MARY B MORGAN DB 1004 PG 961 TRACT 1 ISBLKBUS
104 FIRST CITIZENS BANK & TRUST CO. DB 1644 PG 987 PB 42 PG 25 ISBLKBUS
105 MARY B MORGAN DB 1004 PG 961 TRACT 2 ISBLKBUS
102 EDWARD B. DAUGHERTY, ET UX DB 830 PG 287 PB 13 PG 32
103 DOUGLAS M. & BLAINE STROUT DB 2240 PG 003 PB 13 PG 32
99 MELVIN D.CONYARD, JR, ET UX DB 919 PG 751 PB 13 PG 32
98 SCOTT STOLAAS, ET UX DB 3061PG 234 PB 13 PG 32
100 ROBERT A BRODNIAK DB 2026 PG 629 PB 13 PG 32
97 STEPHEN J. PARSONS JR DB 3167 PG 666 PB 13 PG 32
95 RAMON R. VEGA, ET UX DB 3490 PG 26 PB 13 PG 32
96 RICHARD H.WALLACE, ET UX DB 1168 PG 128 PB 13 PG 32
101 NATHAN H COX DB 4227 PG 237 PB 13 PG 32
34 WILLIAM F. ROUSE, ET UX DB 364 PG 378 ISBKBUS
33 JONES ONSLOW EMC DB 374 PG 184
32 TRUSTEES OF COASTAL CAROLINA DB 4333 PG 617 PB 34 PG 27
31 BAKER JACKSONVILLE LLC DB 1479 PG 22 PB 34 PG 27 PB 35 PG 230

-L-
PI Sta 163+95.46
△ = 0° 47' 47.8" (LT)
D = 0° 45' 50.2"
L = 104.28'
T = 52.14'
R = 7,500.00'
SE = .025
DS = 50 MPH

-Y15-
PI Sta 11+83.10
△ = 21° 29' 33.5" (RT)
D = 18° 05' 54.1"
L = 118.75'
T = 60.08'
R = 316.58'
SE = EXIST.
DS = STOP CONDT.

-Y16-
PI Sta 10+60.03
△ = 16° 34' 50.8" (LT)
D = 13° 54' 27.9"
L = 119.22'
T = 60.03'
R = 411.97'
SE = EXIST.
DS = STOP CONDT.

FOR -L- PROFILE, SEE SHEET NO. 22
FOR -Y15- PROFILE, SEE SHEET NO. 27
FOR -Y16- PROFILE, SEE SHEET NO. 27

SEE SHEET 2B-? TO 2B-? FOR INTERSECTION DETAILS

NOTE: ALL RADIUS 2' UNLESS NOTED OTHERWISE

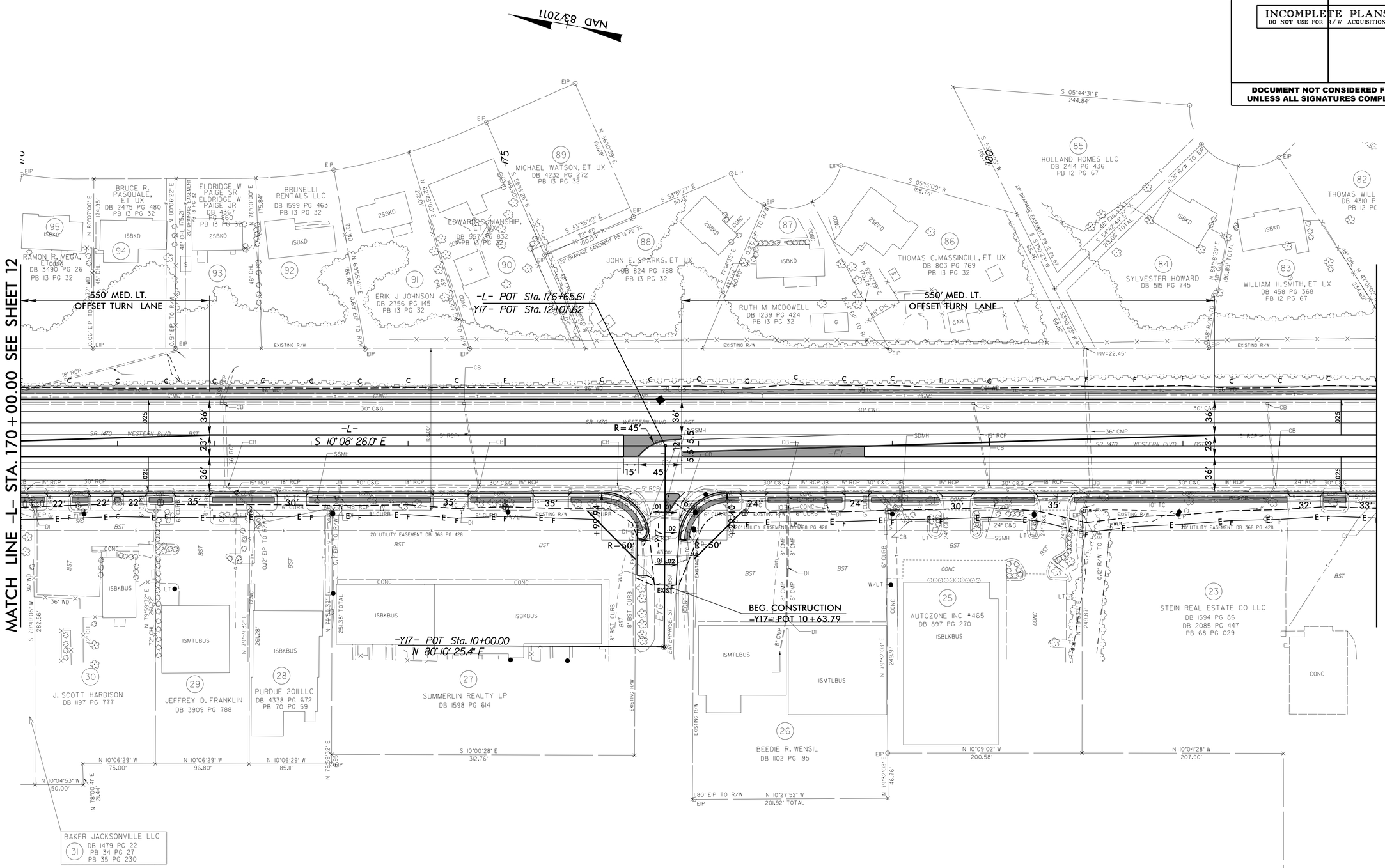
2/22/2017
U:\Projects\U-5736\rdy\psh_12.dgn
USER:pshuler

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



FOR -L- PROFILE, SEE SHEET NO. 22, 23
FOR -Y17- PROFILE, SEE SHEET NO. 27
SEE SHEET 2B-? TO 2B-? FOR INTERSECTION DETAILS
NOTE: ALL RADIUS 2' UNLESS NOTED OTHERWISE

REVISIONS

8/17/99

2/22/2017
...\proj\u5736_rdy_psh_13.dgn
USER:Fkeus

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS
8/17/99

BRYNN MARR RD.
5375 / 6800
2246 / 2800 | 1725 / 2200
–L– NC 53 (WESTERN BLVD.) 33213 / 42000
763 / 1000 | 1825 / 2300 –L– NC 53 (WESTERN BLVD.) 33754 / 42700
3992 / 5100
2021 ADT
2040 ADT

NAD 83/2011

MATCH LINE –L– STA. 184+00.00 SEE SHEET 13

MATCH LINE –L– STA. 198+00.00 SEE SHEET 15

–Y18– POT Sta. 20+53.31

–L– PC Sta. 193+43.93

–Y18– BRYN MAR RD N 79°51'06.3" E

–L– PRC Sta. 196+54.88

END CONSTRUCTION
–Y18– POT 17+50.00

BEG. CONSTRUCTION
–Y18– POT 15+00.00

–L– POC Sta. 194+05.62
–Y18– PT Sta. 16+31.87
–Y18– PT Sta. 14+54.75

PROP. 2'6" C&G

300' MED. LT. OFFSET TURN LANE
175' RT FULL LANE
150' RT TAPER
100' MED. LT. TAPER
325' RT FULL LANE
500' MED. LT. OFFSET TURN LANE

R = 50'
R = 58'

81 PETER D HILLARD JR DB 4218 PG 452 PB 12 PG 67
80 WALTER J. BRUDERER, ET UX DB 411 PG 664 PB 12 PG 67
79 RICHARD DAVIS DB 1750 PG 168 PB 12 PG 67
78 AISHA S. GURGANIS ET VIR DB 3964 PG 619 PB 12 PG 67
77 RONNIE P SHAW DB 1399 PG 003 PB 12 PG 67
MAXINE P HARDISON LIFE ESTATE DB 3904 PG 711 PB 11 PG 1
JUDY L THOMPSON DB 934 PG 763 PB 11 PG 1
EDWIN C. SIMMONS, ET UX DB 391 PG 134 PB 11 PG 1
76 75 74 73 72
JEROME S BROWN DB 387 PG 698 PB 11 PG 1
SANDRA O MOORE DB 2220 PG 614 PB 11 PG 1
71 WILMINA B ROSARIO DB 3468 PG 62 PB 11 PG 1
70 CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS, INC. DB 376 PG 128
69 CHUN HOI FUNG DB 2558 PG 327 PB 49 PG 184
22 SOUTHEASTERN BLDING CORP DB 446 PG 760
21 WILLIAM W WHITE 3 DB 950 PG 396
20 WILLIAM S. MORRIS, ET UX DB 1518 PG 641
19 DRADA P HOOVER & CHARLES L HILL DB 550 PG 126
18 PAW INVESTMENTS LLC DB 3152 PG 767
17 MARGARET M DAVIS DB 1829 PG 690 PB 28 PG 32
16 PLAINS COASTAL PROPERTIES LLC DB 1509 PG 715
15 JOSEPH H PAKE DB 1706 PG 185 PB 41 PG 67
13 PADGETT PROPERTIES LIMITED PARTNERSHIP DB 1206 PG 737
12 NATIONAL DODGE INC DB 1334 PG 427
23 STEIN REAL ESTATE CO LLC DB 1594 PG 86 DB 2085 PG 447 PB 68 PG 029

SR 1470 WESTERN BLVD BST

-L-
PI Sta 194+99.42
Δ = 1° 46' 53.9" (LT)
D = 0° 34' 22.6"
L = 310.96'
T = 155.49'
R = 10,000.00'
SE = .025
DS = 50 MPH

PI Sta 198+04.04
Δ = 1° 42' 32.5" (RT)
D = 0° 34' 22.6"
L = 298.28'
T = 149.15'
R = 10,000.00'
SE = .025
DS = 50 MPH

-Y18-
PI Sta 12+27.40
Δ = 1° 59' 08.1" (LT)
D = 0° 26' 11.9"
L = 454.75'
T = 227.40'
R = 13,122.23'
SE = EXIST.
DS = EXIST.

★ PROPOSED SIGNAL

FOR –L– PROFILE, SEE SHEET NO. 23
FOR –Y18– PROFILE, SEE SHEET NO. 27

SEE SHEET 28-? TO 28-? FOR INTERSECTION DETAILS

NOTE: ALL RADIUS 2' UNLESS NOTED OTHERWISE

2/22/2017
U-5736_rdy_psh_14.dgn
USER: rdy

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS 8/17/99

VILLAGE DRIVE
2021 ADT 3550 / 4500
2040 ADT 4300
-L- NC 53 (WESTERN BLVD.) 33333 / 42200
2267 / 2900
542 / 700
1183 / 1500
442 / 600
32150 / 40700
1083 / 1400
TACO BELL DWY

LIBERTY DRIVE
2021 ADT 3971 / 5000
2040 ADT
-L- NC 53 (WESTERN BLVD.) 30204 / 38200
2346 / 2900
763 / 1000
863 / 1100
642 / 800
28600 / 36200
2167 / 2800
CENTER STREET

NAD 83/2011

MATCH LINE -L- STA. 198+00.00 SEE SHEET 14

MATCH LINE -L- STA. 212+00.00 SEE SHEET 16

-L- PT Sta. 199+53.17

-L- POT Sta. 201+29.83
-Y19- POT Sta. 10+00.00

END CONSTRUCTION
-Y19- POT 14+00.00
BEGIN MILLING AND RESURFACING
-Y19- POT 12+00.00

-L- PC Sta. 206+59.64

-Y20- POT Sta. 16+76.83

-L- POC Sta. 209+96.06
-Y20- POT Sta. 14+30.95

END CONSTRUCTION
-Y20- POT 15+62.93

-L- PRC Sta. 210+71.69

-Y20- PT Sta. 11+34.72

-Y20- PC Sta. 10+00.00

BEG. CONSTRUCTION
-Y20- POT 13+17.08

100' MED. LT TAPER
200' MED. LT. OFFSET TURN LANE
250' MED. LT. OFFSET TURN LANE
250' RT. TURN LANE
100' MED. LT TAPER
150' RT TAPER
550' MED. LT. OFFSET TURN LANE
200' MED. LT. OFFSET TURN LANE

TIE TO EXIST. CURB
TIE TO EXIST. SIDEWALK

67 NEW LIFE BAPTIST CHURCH OF JAX DB 2263 PG 541
68 ALCOKE HOLDINGS LLC DB 2171PG 744 PB 49 PG 184
69 CHUN HOI FUNG DB 2558 PG 327 PB 49 PG 184
66 DANIEL G KAMIN BRYNN DB 1374 PG 258
SOUND SIDE PROPERTY MANAGEMENT, L DB 3640 PG 661
11 FJW REALTY CORP DB 1391PG 80
10 NATIONAL RETAIL PROPERTIES LP DB 4166 PG 694 PB 31PG 38
9 WENDELL PADGETT, ET UX DB 460 PG 171 PB 31PG 38
8 SURLES D JR & LINDA FREEMAN DB 4134 PG 351
7 HOS PROPERTIES LLC DB 4044 PG 574
6 RAND HILL ROSE MARIE NO DEED REFERENCE
5 STAMATS DIST CO DB 649 PG 750
4 CAJUN PROPERTIES INC DB 1288 PG 248
3 PAUL D & SANDRA IVEY DB 2174 PG 815
2 LILA JEAN PROPERTIES LLC DB 4051PG 956
1 CROSSROADS CHRISTIAN FELLOWSHIP DB 1164 PG 64
JACKSONVILLE BK LLC DB 4246 PG 418 MB 27 PG 10

-L-
PI Sta 208+65.73
Δ = 3° 27' 42.1" (RT)
D = 0° 50' 24.4"
L = 412.05'
T = 206.09'
R = 6,820.00'
SE = .025
DS = 50 MPH

PI Sta 214+07.12
Δ = 4° 59' 01.7" (LT)
D = 0° 44' 36.2"
L = 670.42'
T = 335.42'
R = 7,707.43'
SE = .025
DS = 50 MPH

-Y20-
PI Sta 10+68.07
Δ = 20° 12' 31.0" (LT)
D = 15° 00' 01.7"
L = 134.72'
T = 68.07'
R = 381.96'
SE = EXIST.
DS = EXIST.

PROPOSED SIGNAL

FOR -L- PROFILE, SEE SHEET NO. 23,24
FOR -Y20- PROFILE, SEE SHEET NO. 28
SEE SHEET 2B-? TO 2B-? FOR INTERSECTION DETAILS
NOTE: ALL RADIUS 2' UNLESS NOTED OTHERWISE

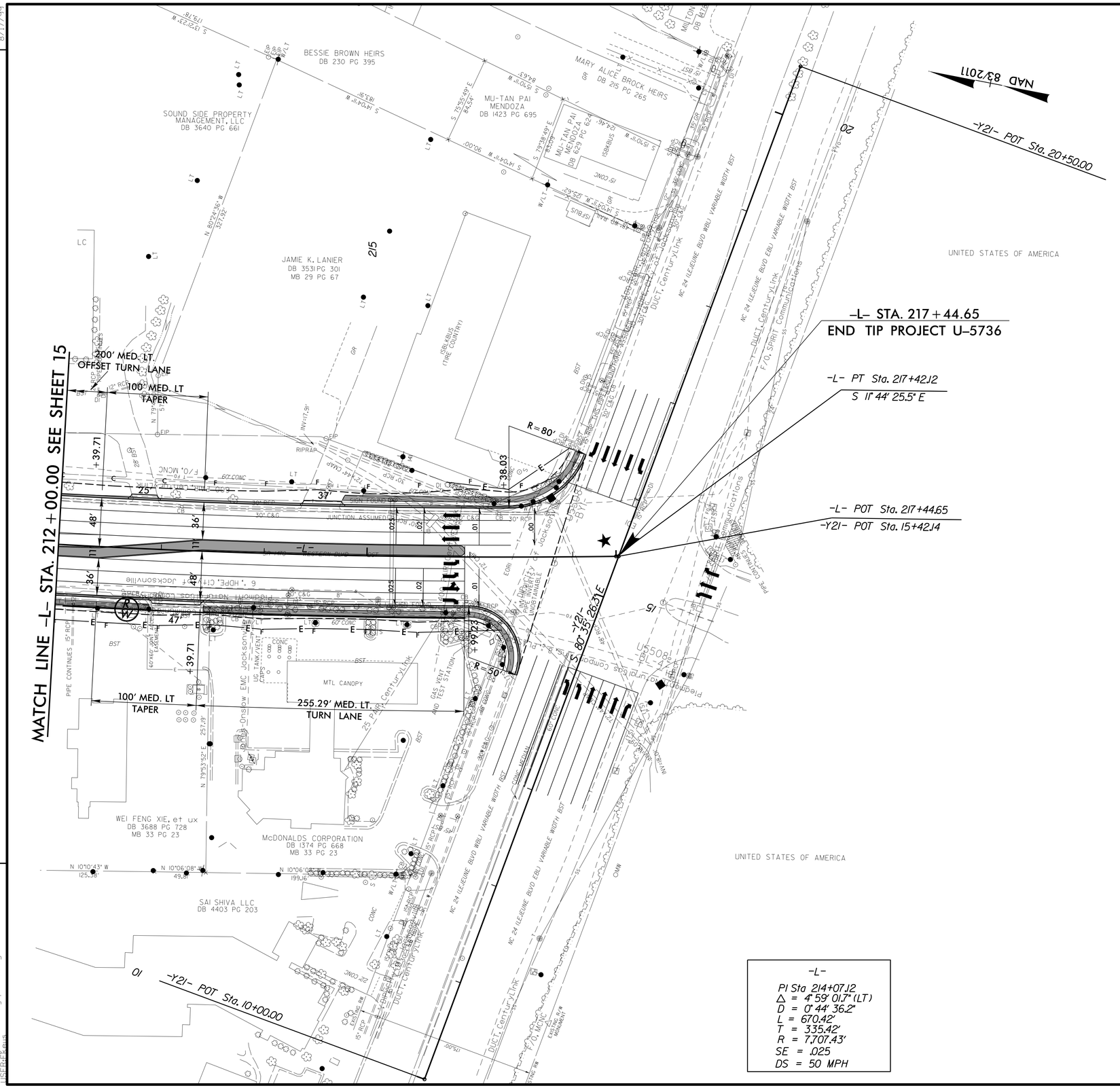
2/22/2017
U:\5736_rdy_psh_15.dgn
USER:rdy
PSFILE:psh15

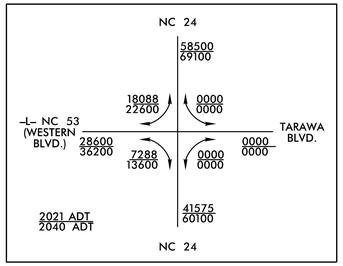
WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED





-L-
PI Sta 214+07.12
Δ = 4° 59' 01.7" (LT)
D = 0° 44' 36.2"
L = 670.42'
T = 335.42'
R = 7,707.43'
SE = .025
DS = 50 MPH

★ PROPOSED SIGNAL

FOR -L- PROFILE, SEE SHEET NO. 24
FOR -Y21- PROFILE, SEE SHEET NO. 28

SEE SHEET 2B-? TO 2B-? FOR INTERSECTION DETAILS

NOTE: ALL RADIUS 2' UNLESS NOTED OTHERWISE

REVISIONS

8/17/99

2/22/2017
...\Proj\u5736_rdy_psh_16.dgn
USER:Fkeus

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-5736	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

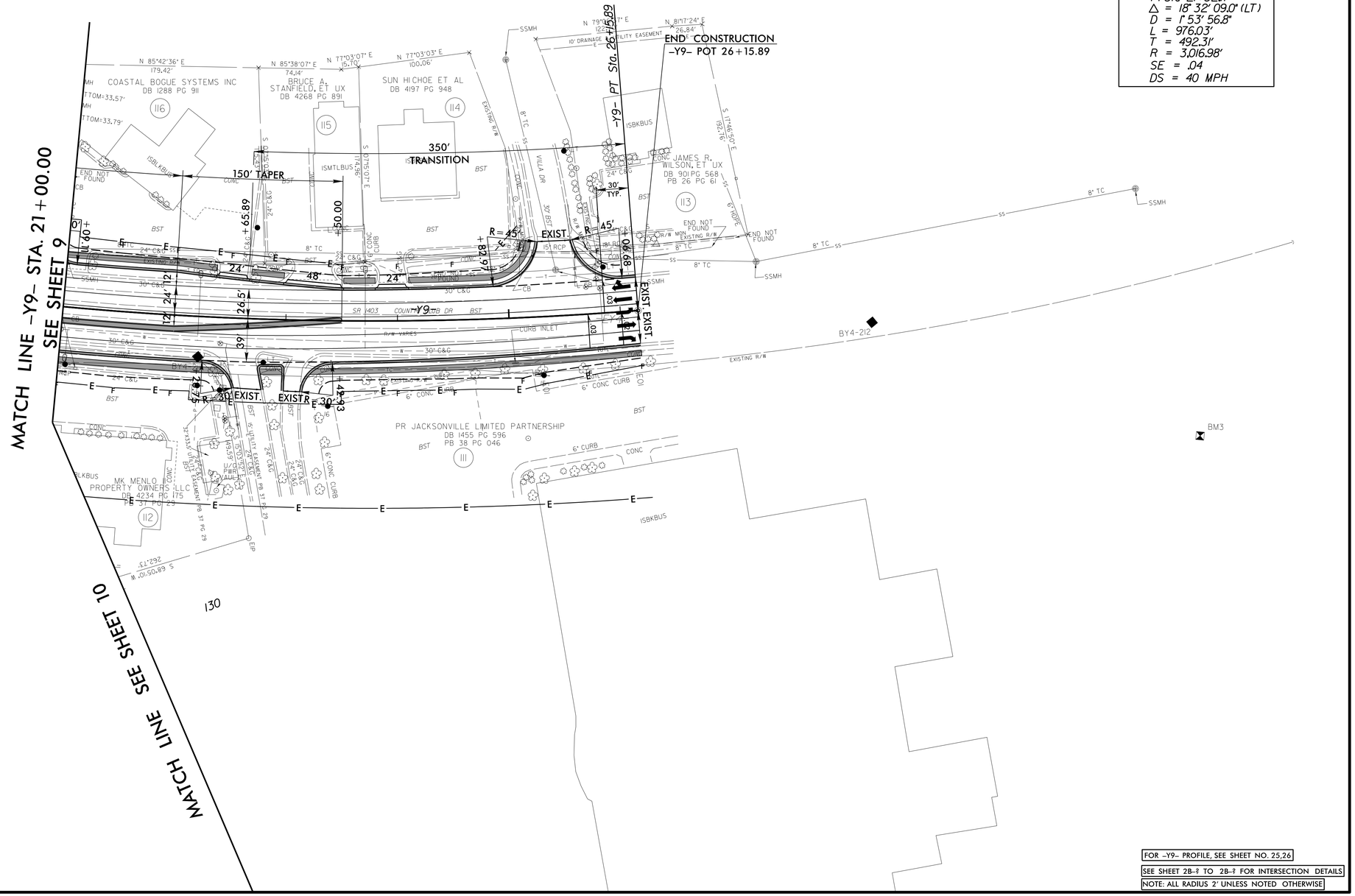
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

8/17/99

NAD 83/2011

-Y9-
PI Sta 21+32.17
△ = 18° 32' 09.0" (LT)
D = 1° 53' 56.8"
L = 976.03'
T = 492.31'
R = 3,016.98'
SE = .04
DS = 40 MPH



FOR -Y9- PROFILE, SEE SHEET NO. 25,26
SEE SHEET 2B-? TO 2B-? FOR INTERSECTION DETAILS
NOTE: ALL RADIUS 2' UNLESS NOTED OTHERWISE

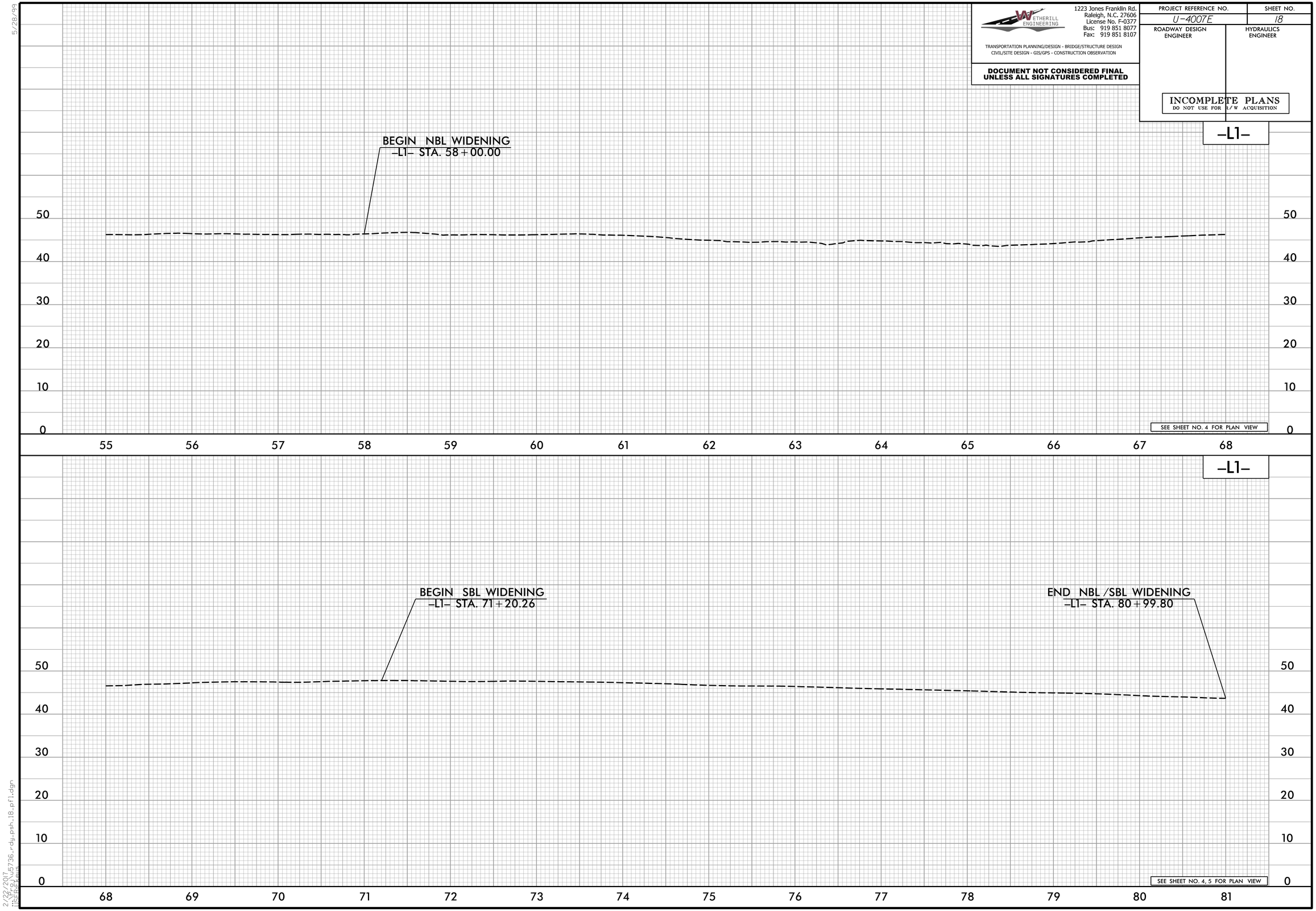
2/22/2017
...\Proj\u5736_rdy_psh_17.dgn
USER:Fkeus

ETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-4007E	18
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



5/28/99

2/22/2017
...\Proj\u5736_rdy_psh_18_pfl.dgn
USER:Fkeys

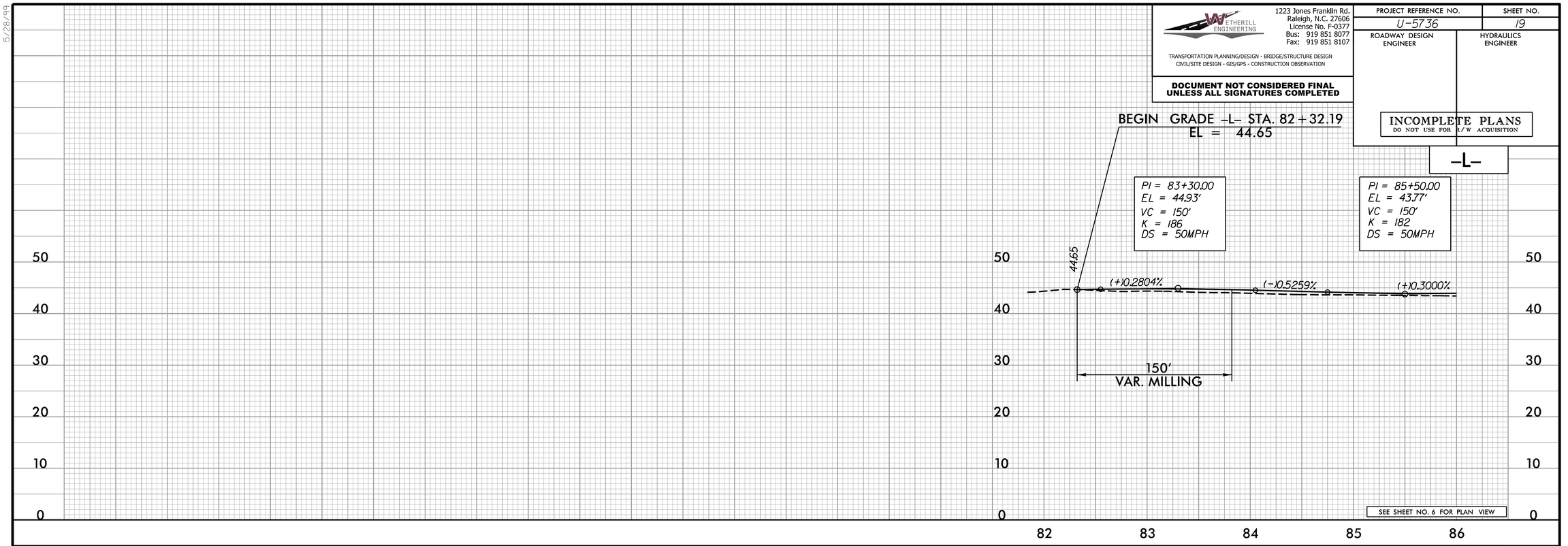
5/28/99

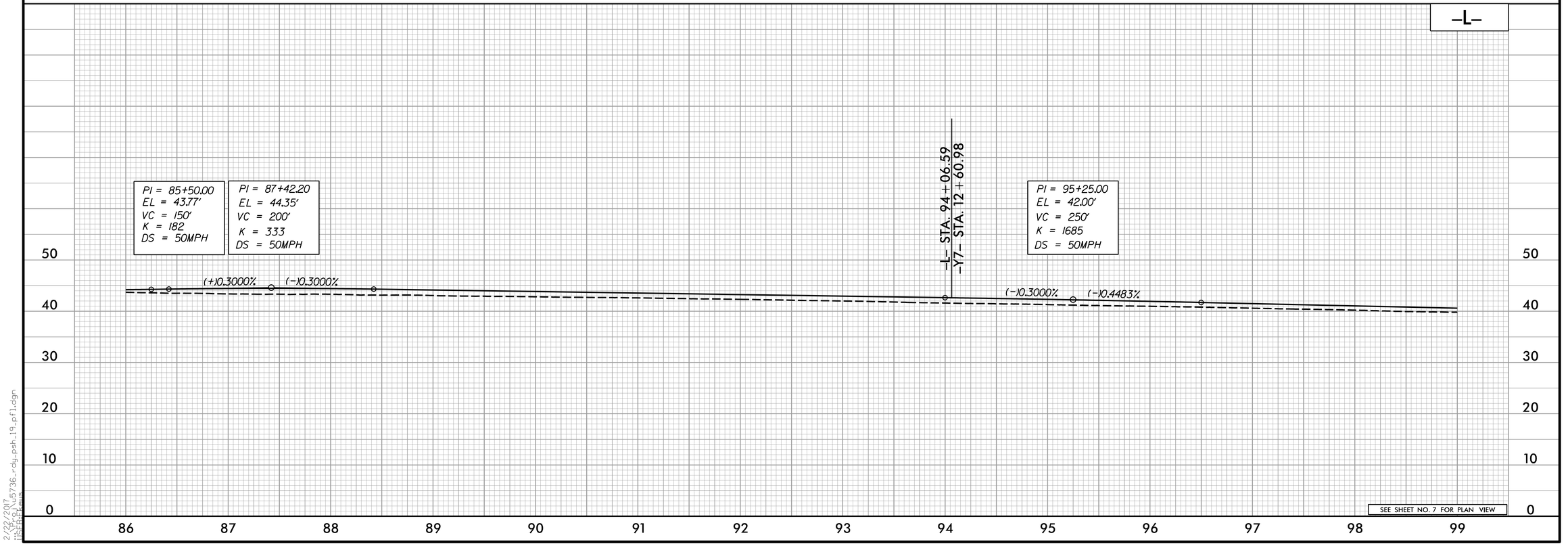
WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5736	19
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION





2/22/2017
U-5736_rdy_psh_19_pfl.dgn
USER:kevin

5/28/99

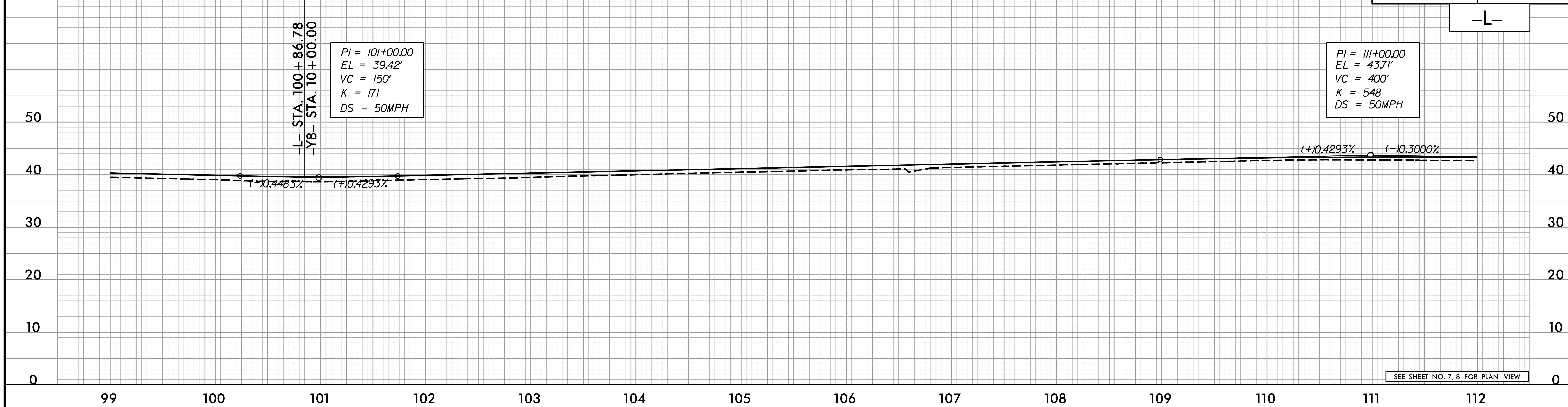
WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

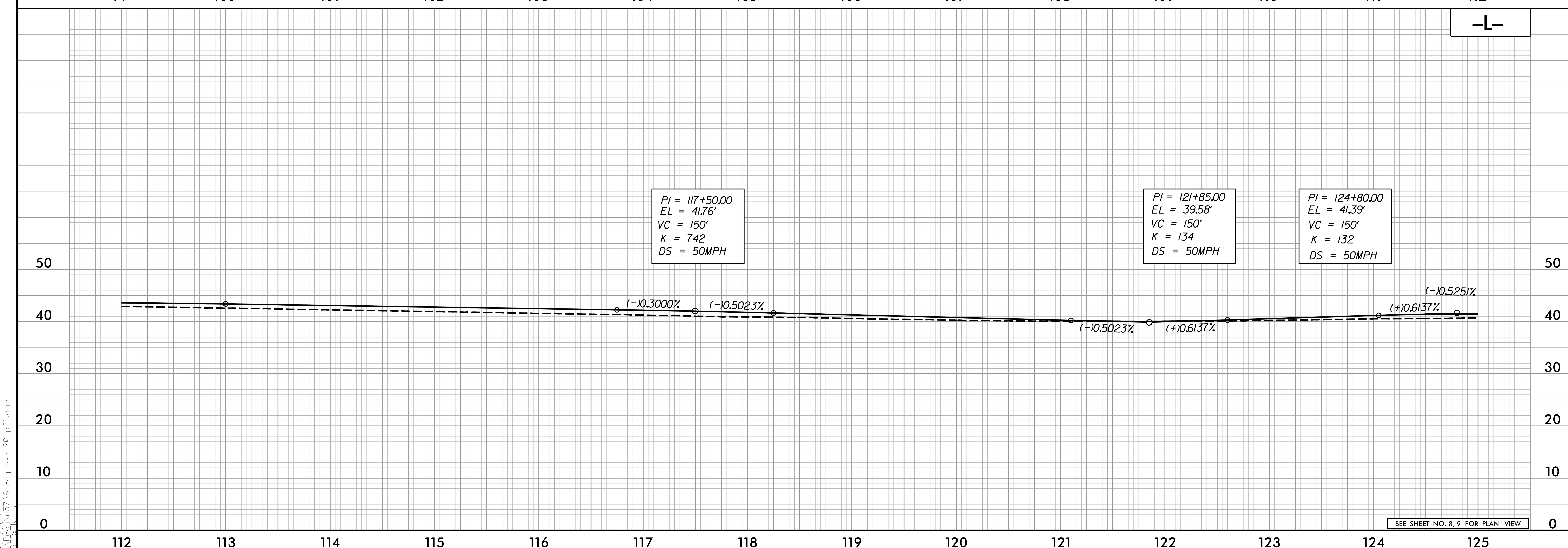
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-4007E	20
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION





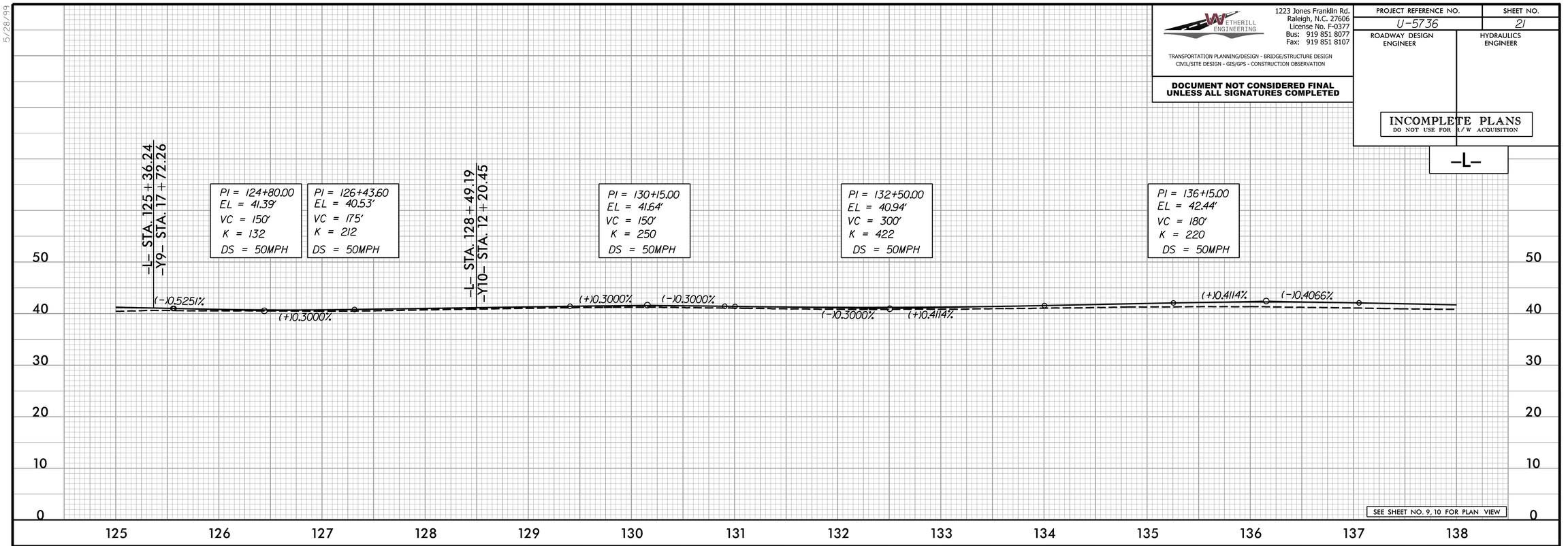
2/22/2017 u5736_rdy_psh_20_pfl.dgn

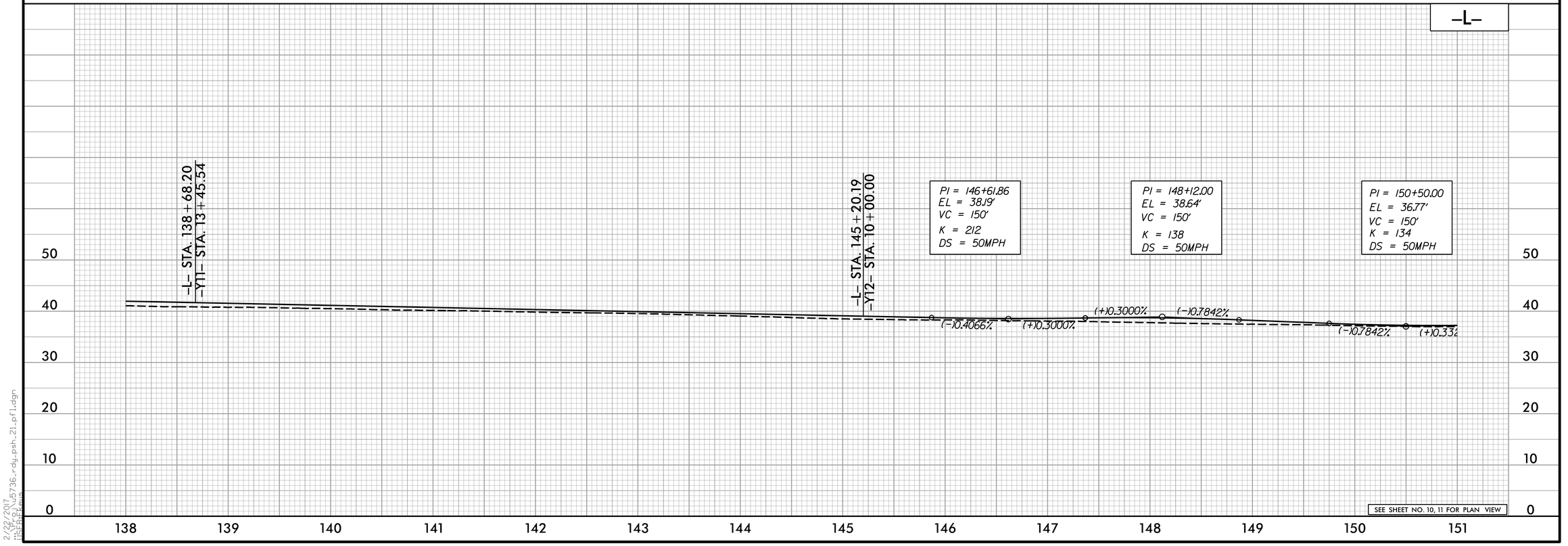
ETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5736	21
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION





5/28/99

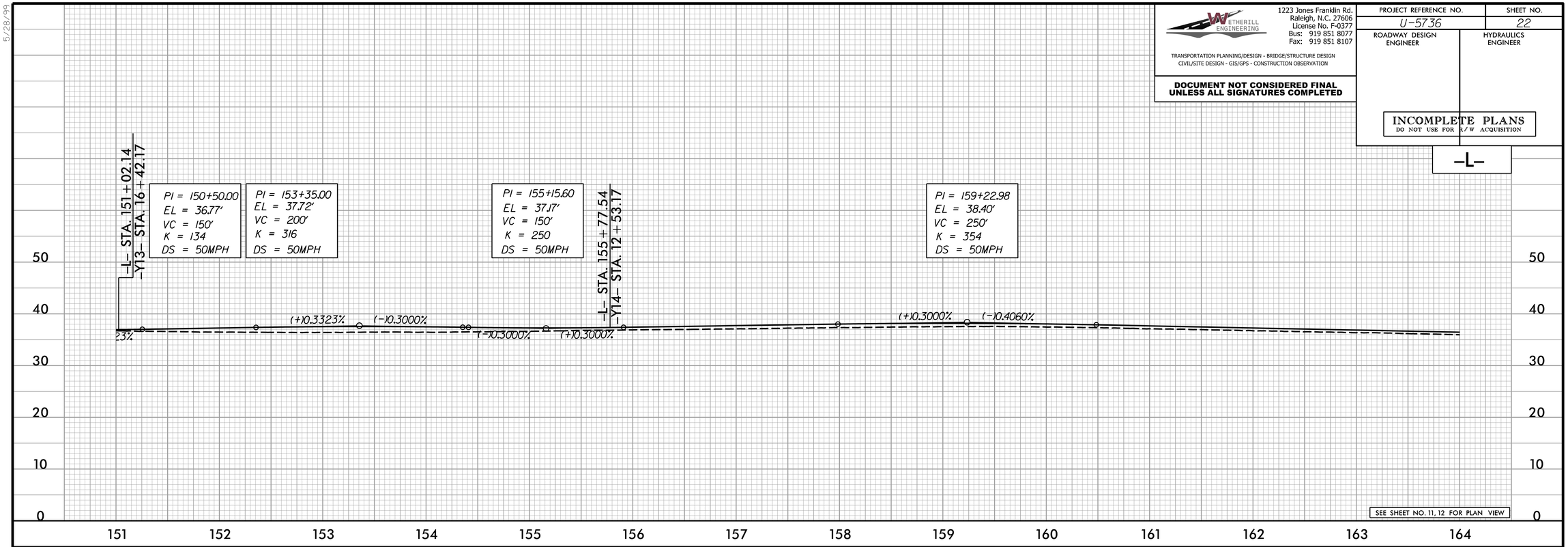
2/22/2017
...\Proj\u5736_rdy_psh_21_pfl.dgn
USER:Ekeys

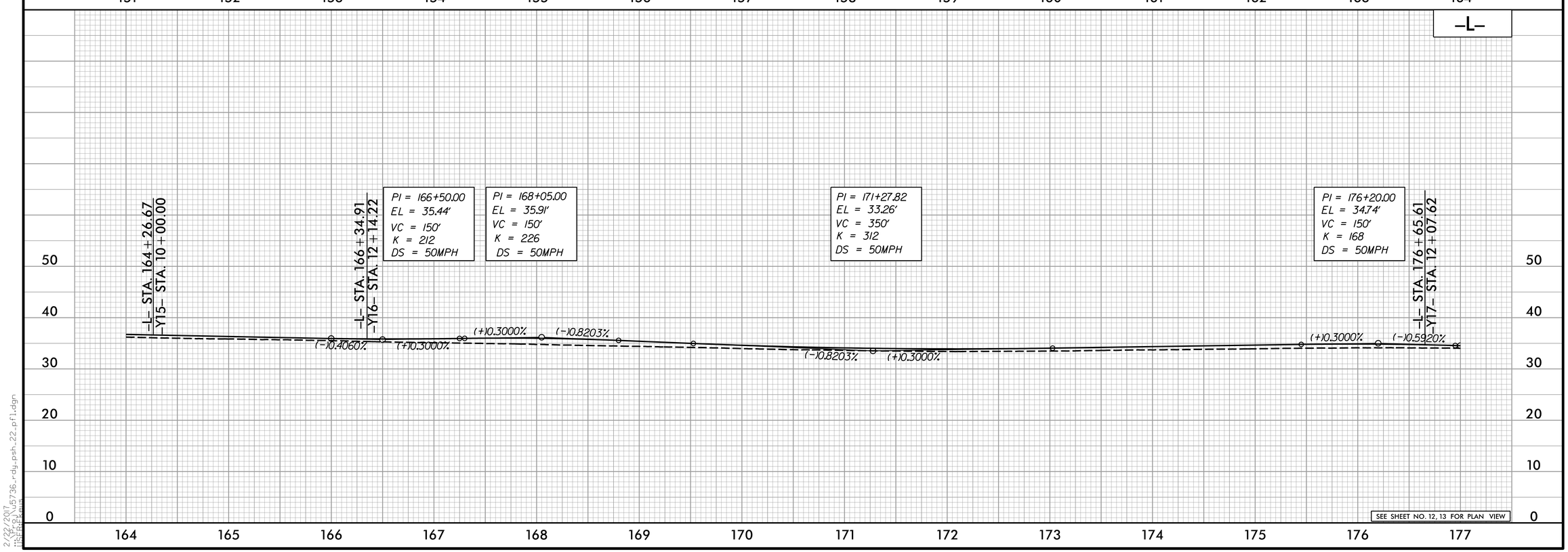
WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5736	22
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION





5/28/99

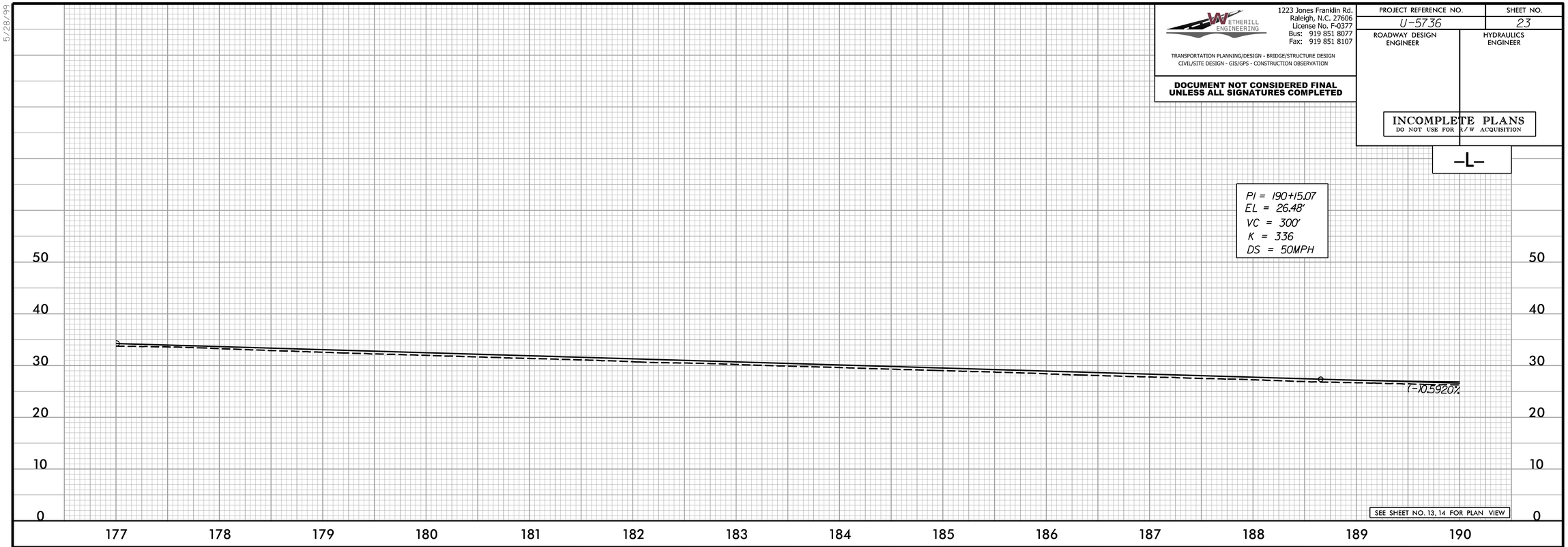
2/22/2017
...\Proj\u5736_rdy_psh_22_pfl.dgn
USER:Fkeys

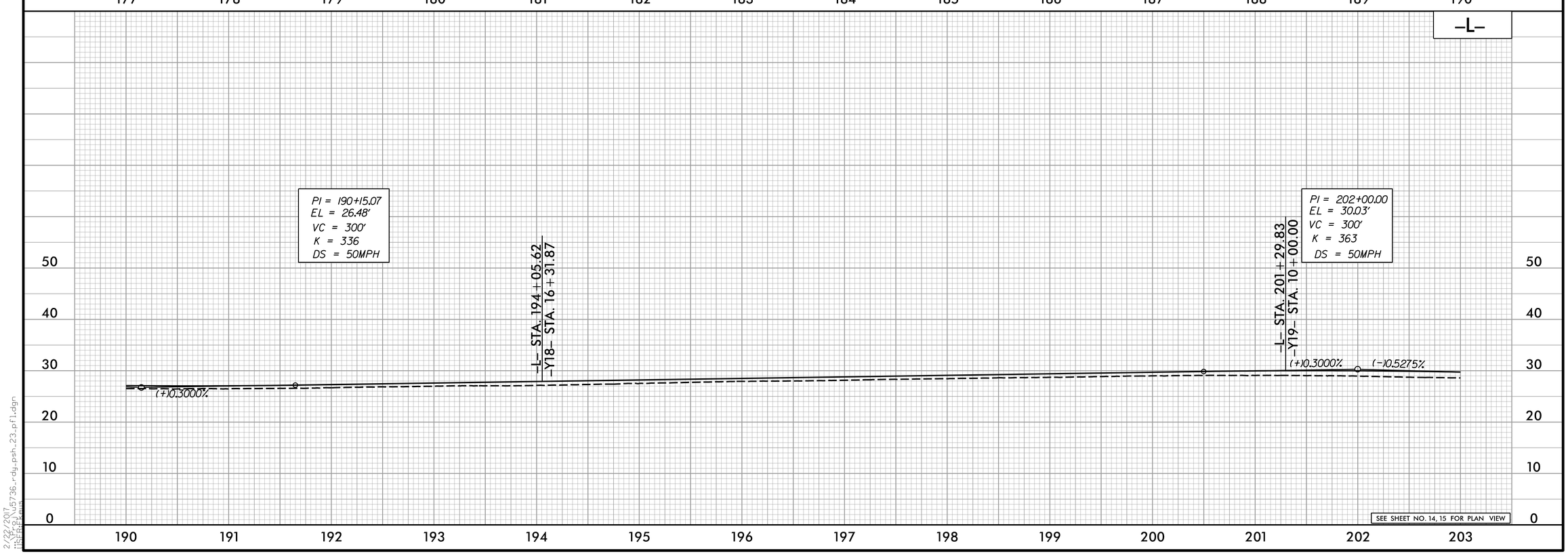
ETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5736	23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION





5/28/99

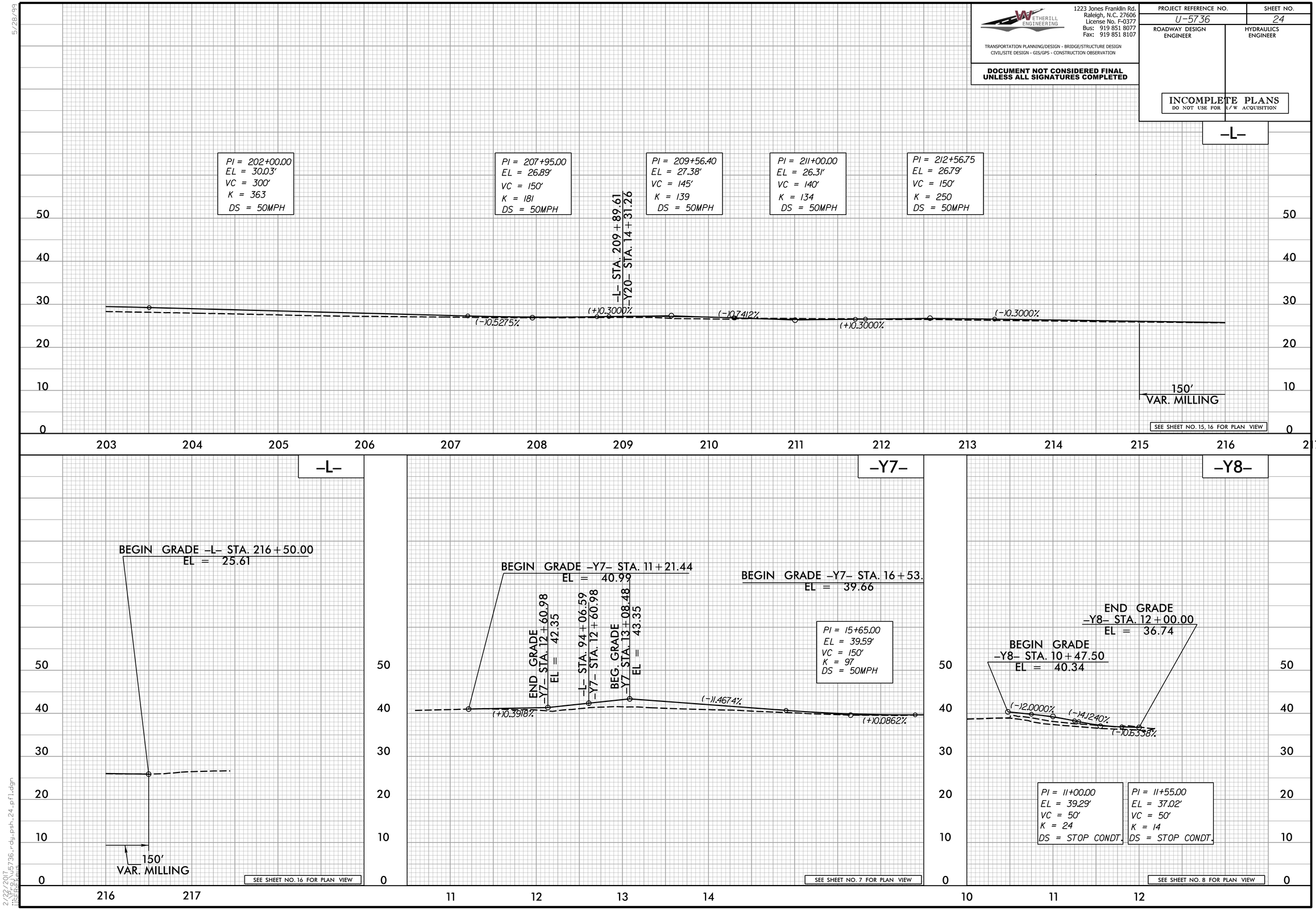
2/22/2017
...\Proj\u5736_rdy_psh_23_pfl.dgn
USER:Fkeys

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5736	24
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



5/28/99

2/22/2017
...\Proj\u5736_rdy_psh_24_pfl.dgn
USER:Fkeys

5/28/99

ETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5736	25

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

–Y6–

BEGIN CONSTRUCTION
–Y6– 7+50.82

SEE SHEET NO. 6-A FOR PLAN VIEW

–Y6–

–L1– STA. 81+83.92
–Y6– STA. 17+52.09

–L– STA. 81+83.92
–Y6– STA. 17+58.87

END CONSTRUCTION
–Y6– STA. 24+00.00

SEE SHEET NO. 6 FOR PLAN VIEW

–Y9–

BEGIN GRADE
–Y9– STA. 11+87.00
EL = 40.23

PI = 12+20.00
EL = 40.33'
VC = 50'
K = 2338
DS = 50MPH

PI = 15+15.00
EL = 41.28'
VC = 200'
K = 194
DS = 50MPH

END GRADE
–Y9– STA. 17+10.14
EL = 39.90

–L– STA. 125+36.24
–Y9– STA. 17+72.26

BEG. GRADE
–Y9– STA. 18+33.51
EL = 39.65

(+)0.3000%
(+)0.3214%
(+)0.3214%
(–)0.7079%
(–)0.7079%
(+)0.3000%

103'
VAR. MILLING

SEE SHEET NO. 9, 17 FOR PLAN VIEW

2/22/2017
C:\Projects\5736\rdy\psh\25_pf1.dgn
USER:Rdy

5/28/99

–Y9–

END GRADE
–Y9– STA. 26+15.88
EL = 40.48

PI = 24+25.95
EL = 41.43'
VC = 180'
K = 226
DS = 50MPH

(+)0.3000%
(–)0.4952%

116'
VAR. MILLING

SEE SHEET NO. 17 FOR PLAN VIEW

–Y10–

BEGIN GRADE
–Y10– STA. 11+00.00
EL = 39.21

END GRADE
–Y10– STA. 11+69.70
EL = 39.87

VAR.
MILLING

(–)0.1953%
(+)2.5000%

PI = 11+40.00
EL = 39.13'
VC = 50'
K = 19
DS = STOP CONDT.

SEE SHEET NO. 10 FOR PLAN VIEW

–Y11–

–Y11– STA. 12+00.00
EL = 38.49

END GRADE
–Y11– STA. 12+98.04
EL = 39.98

70'
VAR.
MILLING

(+)0.3000%
(+)3.0000%

PI = 12+53.75
EL = 38.65'
VC = 50'
K = 19
DS = STOP CONDT.

SEE SHEET NO. 11 FOR PLAN VIEW

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5736	26
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

–Y12–

BEGIN GRADE
–Y12– STA. 10+47.62
EL = 37.58

END GRADE
–Y12– STA. 11+30.00
EL = 37.33

VAR.
MILLING

(–)2.2282%
(+)0.6541%

PI = 10+75.00
EL = 36.97'
VC = 50'
K = 17
DS = STOP CONDT.

SEE SHEET NO. 11 FOR PLAN VIEW

–Y13–

BEGIN GRADE
–Y13– STA. 14+00.00
EL = 37.00

END GRADE
–Y13– STA. 15+93.70
EL = 35.76

–L– STA. 151+02.14
–Y13– STA. 16+42.17

BEG. GRADE
–Y13– STA. 16+90.67
EL = 35.79

(–)0.2945%
(–)0.8187%
(+)1.9061%
(+)0.2984%

PI = 14+65.75
EL = 36.81'
VC = 50'
K = 43
DS = 40MPH

PI = 17+77.98
EL = 37.45'
VC = 100'
K = 62
DS = 45MPH

SEE SHEET NO. 11 FOR PLAN VIEW

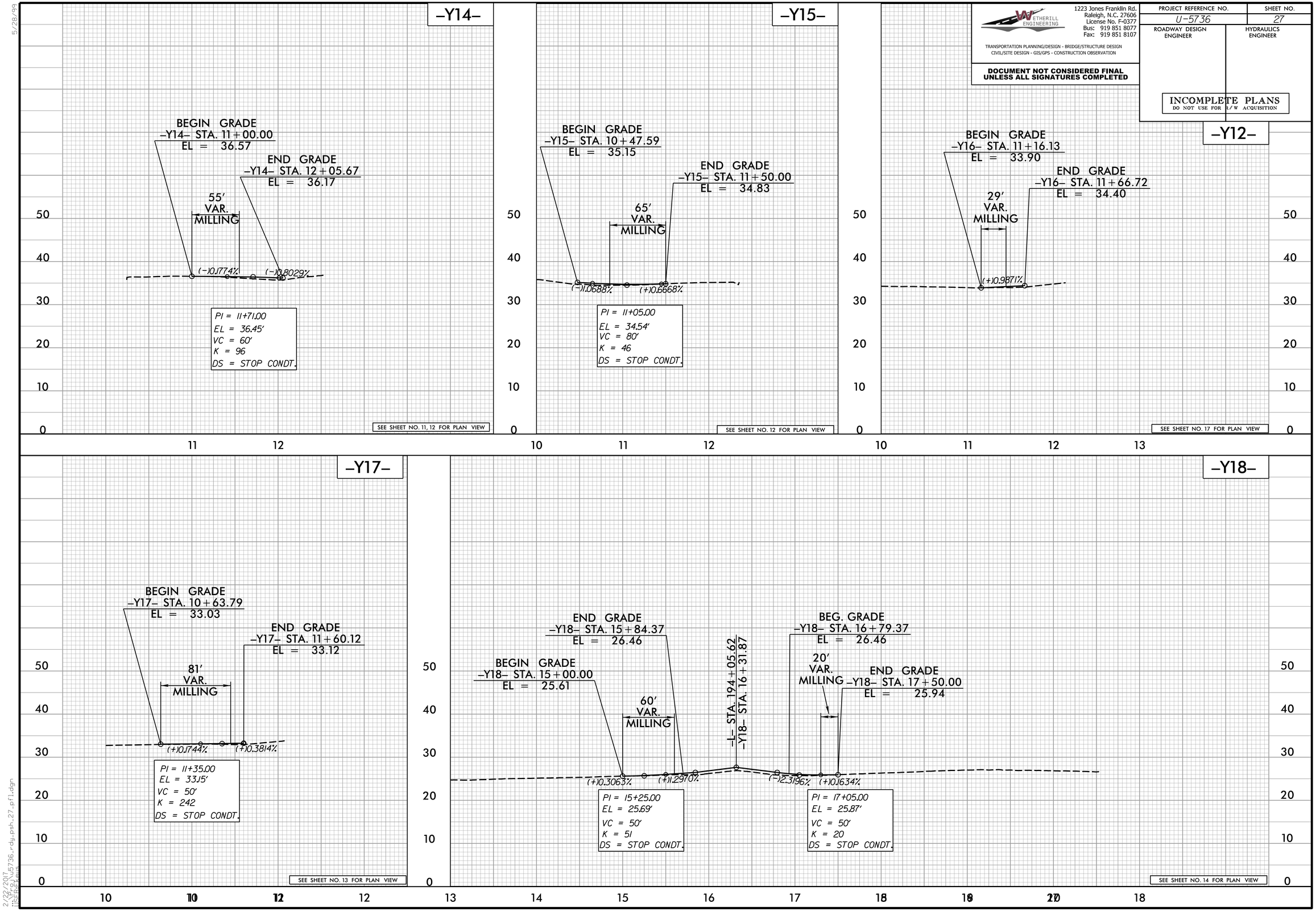
2/22/2017
C:\Projects\5736\rdy\psh\26_pf1.dgn
USER:Kevin

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5736	27
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



5/28/99

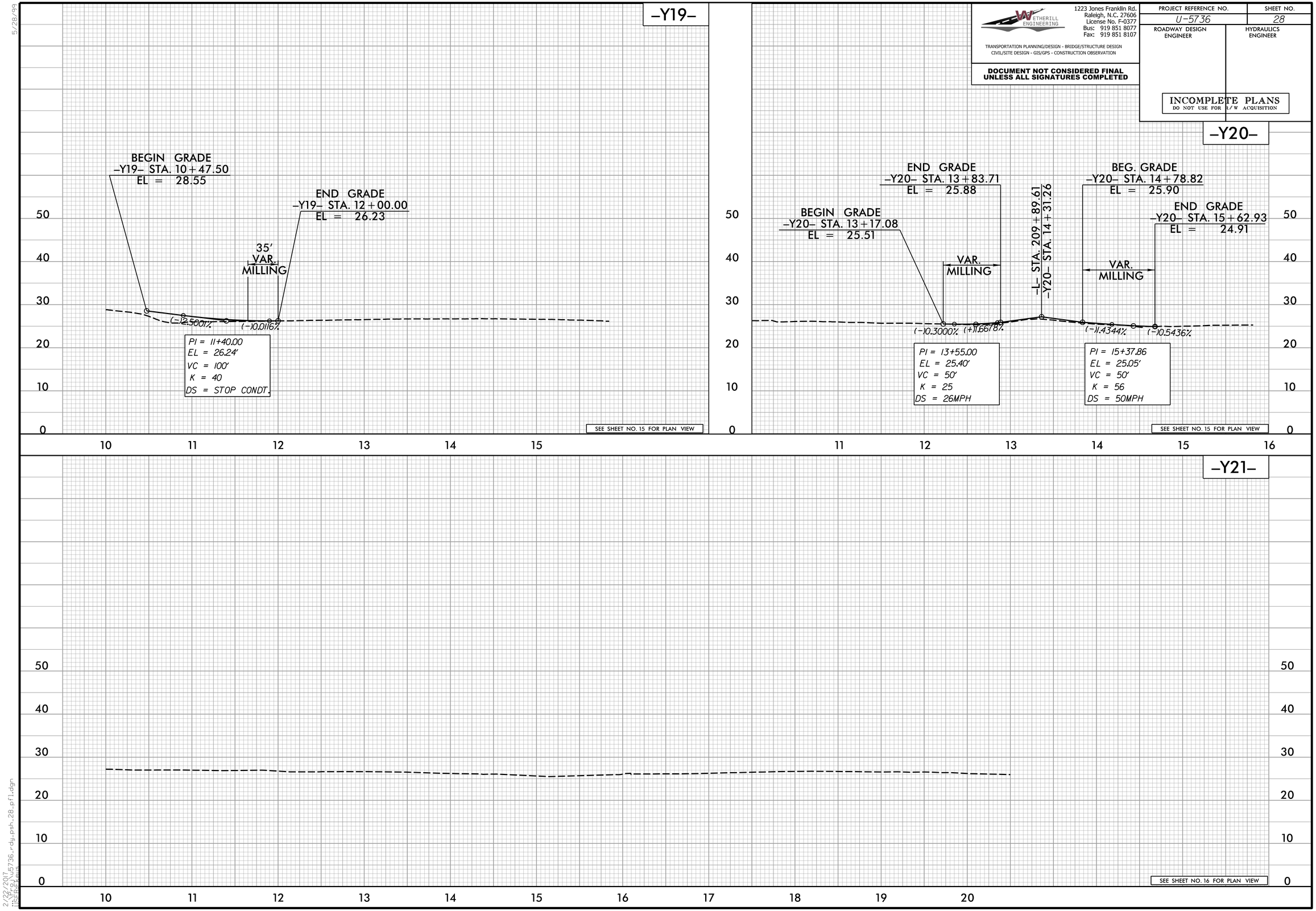
2/22/2017
...\Proj\u5736_rdy_psh_27_pfl.dgn
USER:Fkeys

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5736	28
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



5/28/99

2/22/2017
...\Proj\u5736_rdy_psh_28_pfl.dgn
USER:Fkeys