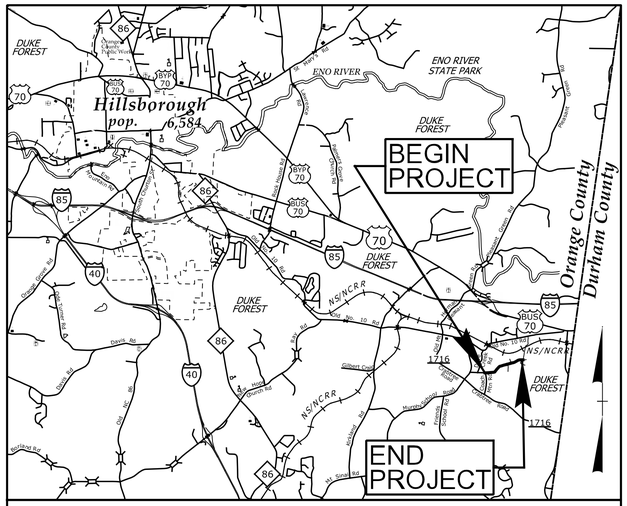
TIP PROJECT: P-4405 I

CONTRACT:

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



VICINITY MAP

NOTE: THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES

STATE OF NORTH CAROLINA
RAIL DIVISIONS

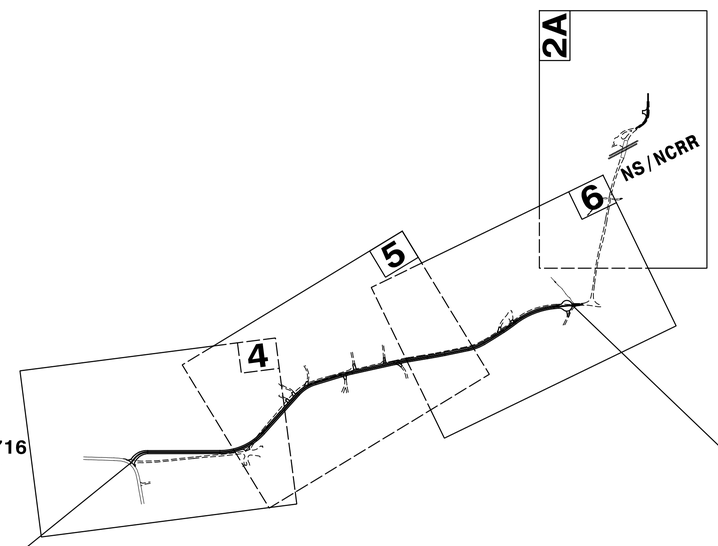
ORANGE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	P-4405 I	1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
62000.7.STR18T1B		

LOCATION: PASCHALL DRIVE FROM GORDON THOMAS DRIVE TO SR 1716
COUCH MOUNTAIN ROAD AND GORDON THOMAS DRIVE
CROSSING CLOSURE
TYPE OF WORK: GRADING, PAVING AND DRAINAGE

NAD 83/
NSRS 2007



END TIP PROJECT P-4405 I
POT STA 41+82.68 -L-

BEGIN TIP PROJECT P-4405 I
POT STA 10+08.03 -L-

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NCDOT CONTACT: DAN HAVENER, PE
PROJECT MANAGER

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD ____.

SUBMITTAL: CFI PLANS
DATE: JANUARY 22, 2015

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT =
ADT =
DHV = %
D = %
T = % *
V = 30 MPH
* TTST =
* DUAL =
FUNC CLASS =SUBDIVISION
SUB REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT P-4405 I = 0.601 MILE
LENGTH STRUCTURE TIP PROJECT P-4405 I = 0.000 MILE
TOTAL LENGTH TIP PROJECT P-4405 I = 0.601 MILE

Prepared In the Office of: ICA Engineering, 5121 Kingdom Way, Suite 100, Raleigh, NC 27607, NC License No: F-0258

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH 11, 2015

LETTING DATE:
OCTOBER 20, 2015

DAVID C. WALLER, PE
PROJECT ENGINEER

ALEXANDER D. SNIDER, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER
SIGNATURE: P.E.

NC DEPARTMENT OF TRANSPORTATION
RAIL DIVISION
PLANNING AND DEVELOPMENT

1/22/2015
R:\Roadway\Proj\p4405i_rdy_tsh.dgn
ICA ENGINEERING, INC.

PROJECT REFERENCE NO.	SHEET NO.
P-4405 I	I-B

Note: Not to Scale

****S.U.E. = Subsurface Utility Engineering***

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- 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
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

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:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite Marker — RW
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

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
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (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
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

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

PRELIMINARY PAVEMENT SCHEDULE	
C1	PROP. APPROX 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
J1	8″ AGGREGATE BASE COURSE.
P	PRIME COAT
T	EARTH MATERIAL
U	EXISTING PAVEMENT

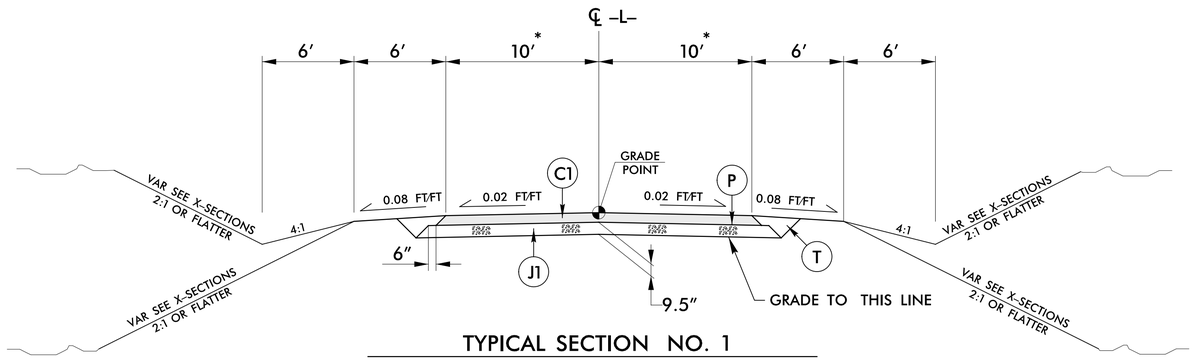
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

ICA Engineering
5121 Kingdom Way, Suite 100
Raleigh, NC 27607
NC License No: F-0258

PROJECT REFERENCE NO.	SHEET NO.
P-4405 I	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

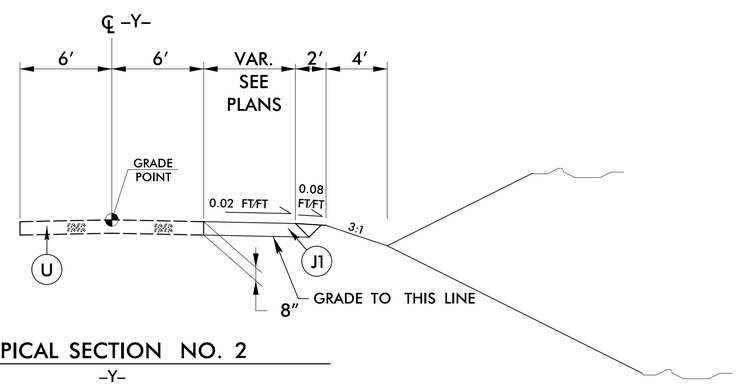
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



TYPICAL SECTION NO. 1
-L- GORDON THOMAS DRIVE

* VARIES 15′ TO 10′ FROM 10+40.00 TO 11+40.00
VARIES 10′ TO 35′ FROM 40+94.06 TO 41+82.68 (CUL-DE-SAC)

USE TYPICAL SECTION NO. 1 FROM:
-L- POT 10+08.03 TO -L- POT 41+82.68



TYPICAL SECTION NO. 2
-Y-

USE TYPICAL SECTION NO. 2 FROM:
-Y- POT 10+00.00 TO -Y- POT 12+09.57

1/21/2015
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ica_gordonthomas

ICA Engineering
5121 Kingdom Way, Suite 100
Raleigh, NC 27607
NC License No: F-0258

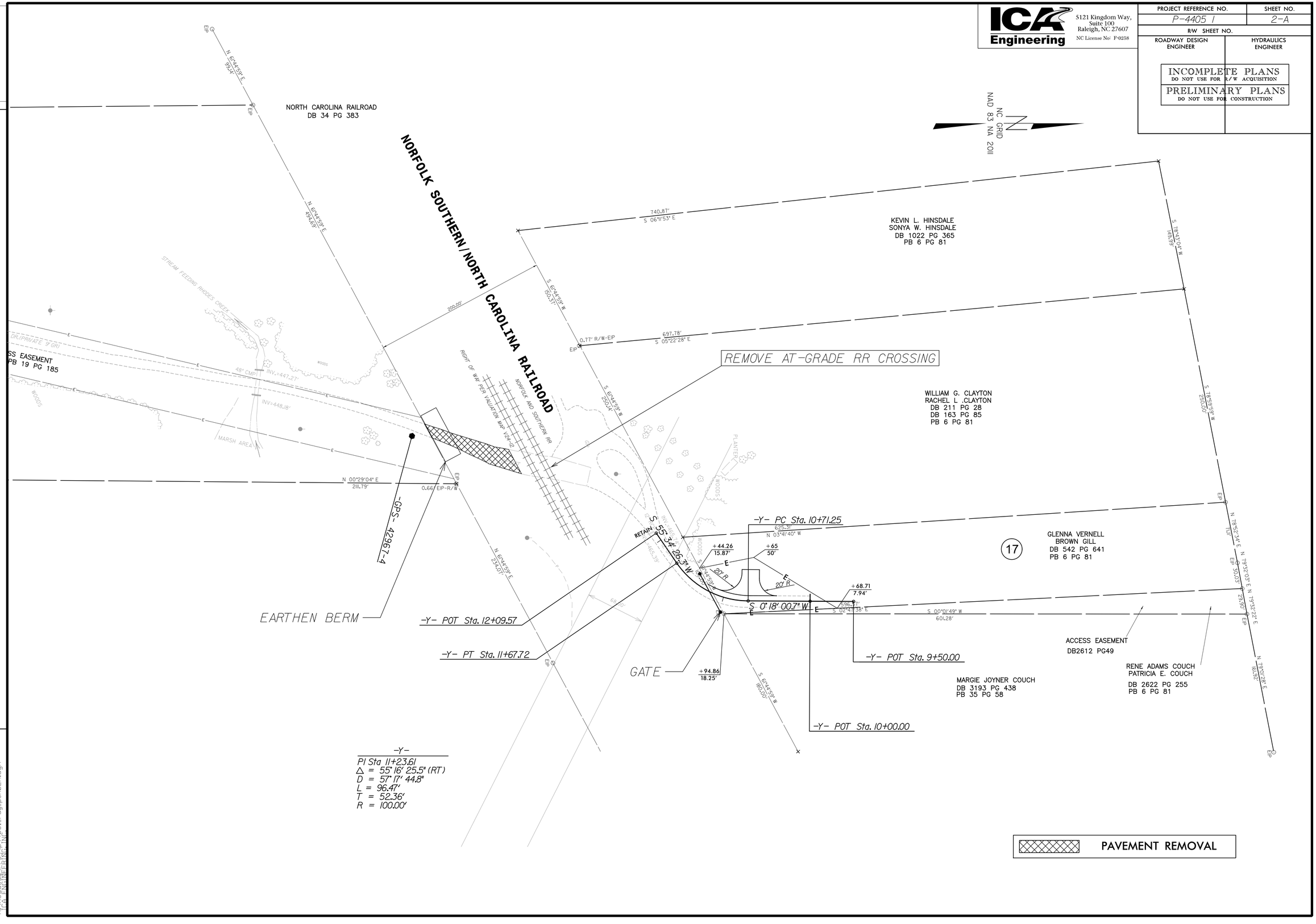
PROJECT REFERENCE NO.	SHEET NO.
P-4405 I	2-A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DGN

REVISIONS



R2L/2015
Fri Oct 23 2015 - 11:04
ICA ENGINEERING, INC.
P:\Projects\P-4405_rdy_psh02A.dgn

COMPUTED BY: ADS DATE: 10/20/2014
CHECKED BY: DCW DATE: 10/20/2014

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
P-4405 I	3-A

SUMMARY OF EARTHWORK
IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
10+00.17	41+50.00	4216	3292		924
PROJECT TOTALS:					
MATERIAL FOR SHOULDER CONSTRUCTION			156	156	
WASTE IN LIEU OF BORROW				-156	-156
GRAND TOTALS:		4216			768
SAY:		4300			

Note: Approximate quantities only. Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

DCN

1/21/2015
R:\Roadway\Proj\p4405i_rdy_psh03A.dgn
ICA ENGINEERING, INC.

PROJ. REFERENCE NO.	SHEET NO.
P-4405 I	3-B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	DORIS S. PASCHALL ETAL & STEVEN D PASCHALL
2	4	CHARLES W. ERWIN & ANDREA C. ERWIN
3	4	ROBERT L. PASCHALL AND TO HIS HEIRS AND ASSIGNS
4	4, 5	DONALD PASCHALL
5	5	CATHY O. PASCHALL
6	5	SUSAN G. MIKELS
7	5	MARY ALICE ELLIS & CLAIBORNE O. ELLIS
8	5	JOSEPHINE P. MANGUM & OTIS C. MANGUM
9	5	ROBERT L. PASCHALL
10	5, 6	DUKE UNIVERSITY SCHOOL OF FORESTRY
11	5, 6	FRED T. BROWNING & SANDRA R. BROWNING
12	6	JOHN. A. TAYLOR & CALRICE D. TAYLOR
13	6	MICHAEL M. OSTOYICH & VALENTINE A. OSTOYICH
14	6	LUCILLE C. KING
15	6	MARK L. KING
16	6	BOBBY C. COUCH & SHIRLEY COUCH
17	2A	GLENNA VERNELL BROWN GILL

PARCEL No.	SHEET No.	PROPERTY OWNER NAME

ICA Engineering
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Raleigh, NC 27607
NC License No: F-0258

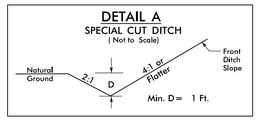
PROJECT REFERENCE NO.	SHEET NO.
P-4405 I	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

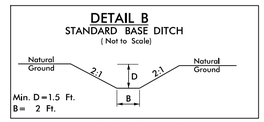
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DGN

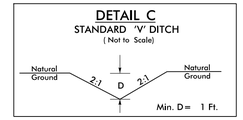
REVISIONS



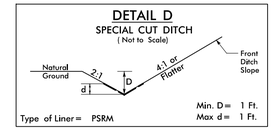
FROM STA. 10+50 TO STA. 11+50 -L- LT
FROM STA. 15+50 TO STA. 19+00 -L- LT
FROM STA. 18+79 TO STA. 20+00 -L- RT



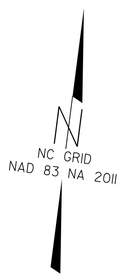
STA. 17+50 -L- LT



STA. 19+70 -L- RT



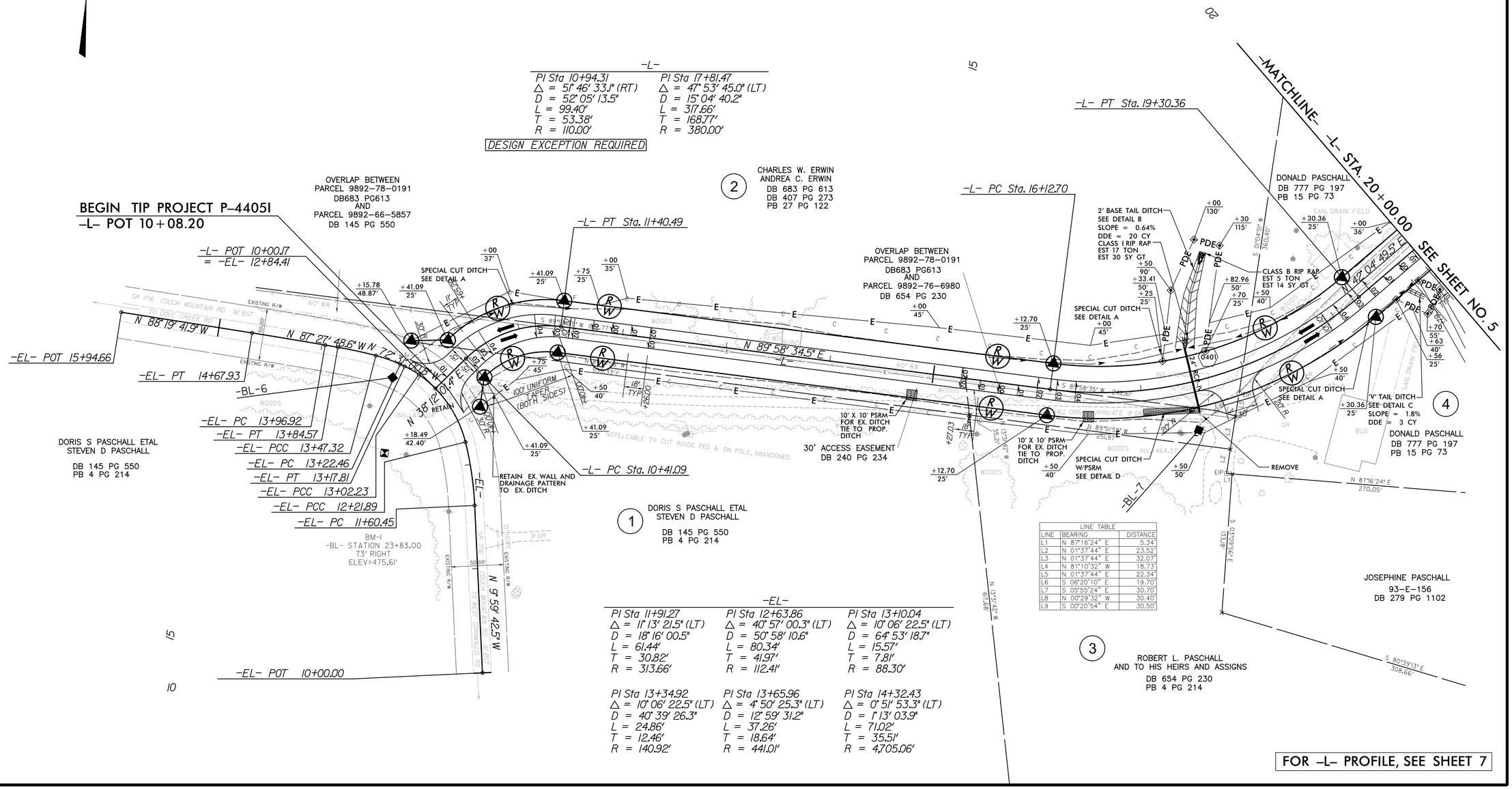
FROM STA. 17+00 TO STA. 17+50 -L- RT



-L-

PI Sta 10+94.31	PI Sta 17+81.47
△ = 51° 46' 33.1" (RT)	△ = 47° 53' 45.0" (LT)
D = 52° 05' 13.5"	D = 15° 04' 40.2"
L = 99.40'	L = 317.66'
T = 53.38'	T = 168.77'
R = 110.00'	R = 380.00'

DESIGN EXCEPTION REQUIRED



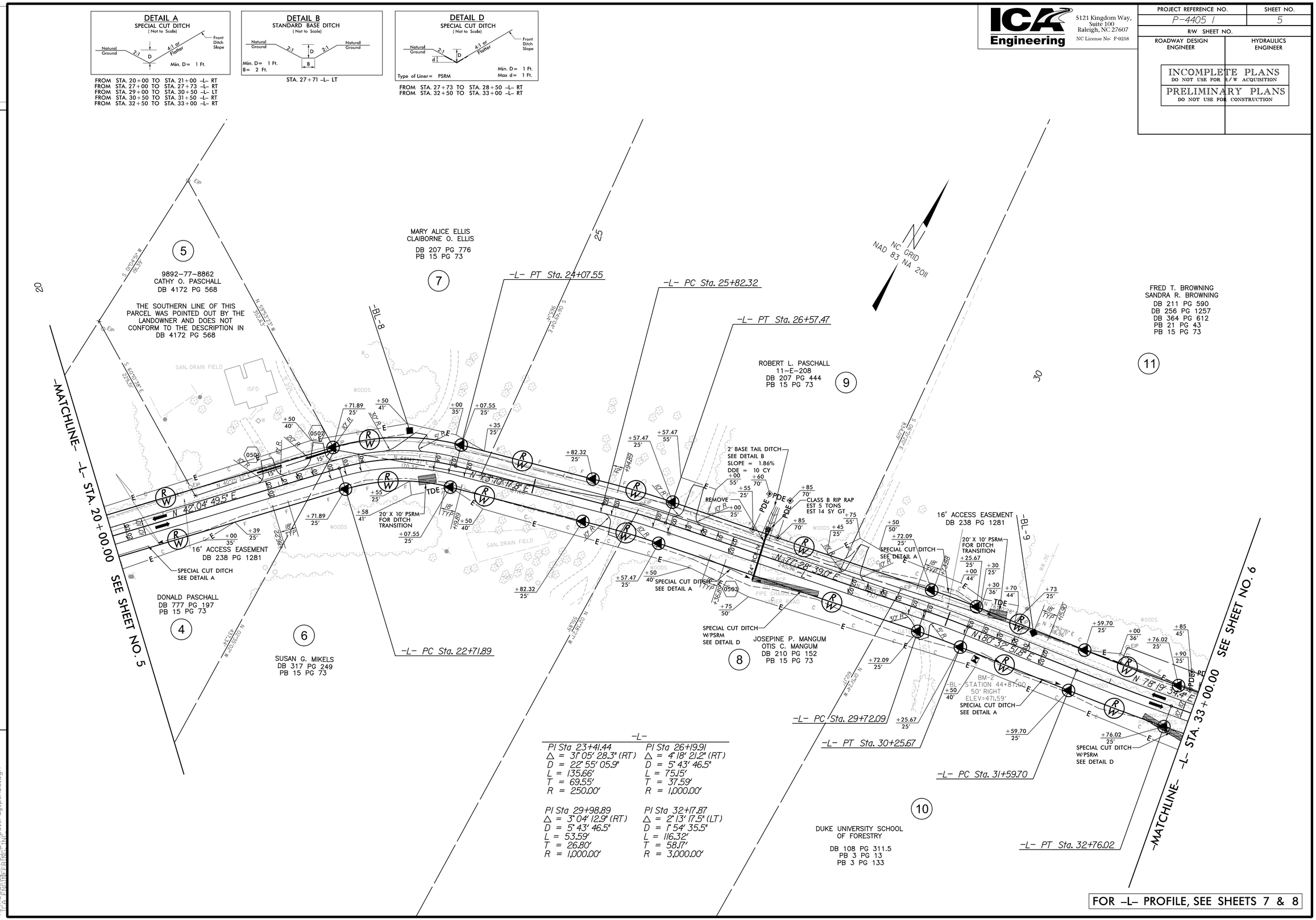
LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 87°16'24" E	5.34'
L2	N 01°37'44" E	23.52'
L3	N 01°37'44" E	32.07'
L4	N 81°10'32" W	18.73'
L5	N 01°37'44" E	22.34'
L6	S 06°20'10" E	19.70'
L7	S 05°55'24" E	30.70'
L8	N 00°29'32" W	30.40'
L9	S 00°20'54" E	30.50'

-EL-

PI Sta 11+91.27	PI Sta 12+63.86	PI Sta 13+10.04
△ = 11° 13' 21.5" (LT)	△ = 40° 57' 00.3" (LT)	△ = 10° 06' 22.5" (LT)
D = 18° 16' 00.5"	D = 50° 58' 10.6"	D = 64° 53' 18.7"
L = 61.44'	L = 80.34'	L = 15.57'
T = 30.82'	T = 41.97'	T = 7.81'
R = 313.66'	R = 112.41'	R = 88.30'
PI Sta 13+34.92	PI Sta 13+65.96	PI Sta 14+32.43
△ = 10° 06' 22.5" (LT)	△ = 4° 50' 25.3" (LT)	△ = 0° 51' 53.3" (LT)
D = 40° 39' 26.3"	D = 12° 59' 31.2"	D = 1° 13' 03.9"
L = 24.86'	L = 37.26'	L = 71.02'
T = 12.46'	T = 18.64'	T = 35.51'
R = 140.92'	R = 441.01'	R = 4,705.06'

FOR -L- PROFILE, SEE SHEET 7

K2\2015
T:\Openroads\Proj\P4405_rdy_psh04.dgn



DETAIL A
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
2:1
D
4:1 or Flatter
Front Ditch Slope
Min. D= 1 Ft.
FROM STA. 20+00 TO STA. 21+00 -L- RT
FROM STA. 27+00 TO STA. 27+73 -L- RT
FROM STA. 29+00 TO STA. 30+50 -L- LT
FROM STA. 30+50 TO STA. 31+50 -L- RT
FROM STA. 32+50 TO STA. 33+00 -L- RT
DETAIL B
STANDARD BASE DITCH
(Not to Scale)
Min. D= 1 Ft.
B= 2 Ft.
STA. 27+71 -L- LT
DETAIL D
SPECIAL CUT DITCH
(Not to Scale)
Type of Liner= PSRM
Min. D= 1 Ft.
Max d= 1 Ft.
FROM STA. 27+73 TO STA. 28+50 -L- RT
FROM STA. 32+50 TO STA. 33+00 -L- RT
ICA Engineering
5121 Kingdom Way, Suite 100
Raleigh, NC 27607
NC License No: F-0258
PROJECT REFERENCE NO.
P-4405 I
SHEET NO.
5
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
REVISIONS
DCN
MARY ALICE ELLIS
CLAIBORNE O. ELLIS
DB 207 PG 776
PB 15 PG 73
7
5
9892-77-8862
CATHY O. PASCHALL
DB 4172 PG 568
THE SOUTHERN LINE OF THIS PARCEL WAS POINTED OUT BY THE LANDOWNER AND DOES NOT CONFORM TO THE DESCRIPTION IN DB 4172 PG 568
-L- PT Sta. 24+07.55
-L- PC Sta. 25+82.32
-L- PT Sta. 26+57.47
NC GRID NAD 83 NA 2011
FRED T. BROWNING
SANDRA R. BROWNING
DB 211 PG 590
DB 256 PG 1257
DB 364 PG 612
PB 21 PG 43
PB 15 PG 73
11
ROBERT L. PASCHALL
11-E-208
DB 207 PG 444
PB 15 PG 73
9
-MATCHLINE- -L- STA. 20+00.00 SEE SHEET NO. 5
-MATCHLINE- -L- STA. 33+00.00 SEE SHEET NO. 6
SAN. DRAIN FIELD
ISFD
WOODS
N 42°04' 49.5" E
N 43°10' 17.8" E
N 77°28' 39.0" E
N 80°32' 51.8" E
N 78°19' 34.4" E
2' BASE TAIL DITCH
SEE DETAIL B
SLOPE = 1.86%
DDE = 10 CY
REMOVE
CLASS B RIP RAP
EST 5 TONS
EST 14 SY GT
16' ACCESS EASEMENT
DB 238 PG 1281
20' X 10' PSRM FOR DITCH TRANSITION
SPECIAL CUT DITCH
SEE DETAIL A
SPECIAL CUT DITCH W/PSRM
SEE DETAIL D
DONALD PASCHALL
DB 777 PG 197
PB 15 PG 73
4
6
SUSAN G. MIKELS
DB 317 PG 249
PB 15 PG 73
-L- PC Sta. 22+71.89
JOSEPINE P. MANGUM
OTIS C. MANGUM
DB 210 PG 152
PB 15 PG 73
8
-L- PC Sta. 29+72.09
-L- PT Sta. 30+25.67
-L- PC Sta. 31+59.70
-L- PT Sta. 32+76.02
BM-2
STATION 44+87.00
50' RIGHT
ELEV=471.59'
10
DUKE UNIVERSITY SCHOOL OF FORESTRY
DB 108 PG 311.5
PB 3 PG 13
PB 3 PG 133
-L-
PI Sta 23+41.44
Δ = 31° 05' 28.3" (RT)
D = 22° 55' 05.9"
L = 135.66'
T = 69.55'
R = 250.00'
PI Sta 26+19.91
Δ = 4° 18' 21.2" (RT)
D = 5° 43' 46.5"
L = 75.15'
T = 37.59'
R = 1,000.00'
PI Sta 29+98.89
Δ = 3° 04' 12.9" (RT)
D = 5° 43' 46.5"
L = 53.59'
T = 26.80'
R = 1,000.00'
PI Sta 32+17.87
Δ = 2° 13' 17.5" (LT)
D = 1° 54' 35.5"
L = 116.32'
T = 58.17'
R = 3,000.00'
FOR -L- PROFILE, SEE SHEETS 7 & 8

ICA Engineering
5121 Kingdom Way, Suite 100
Raleigh, NC 27607
NC License No: F-0258

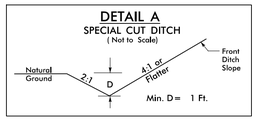
PROJECT REFERENCE NO.	SHEET NO.
P-4405 I	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DGN

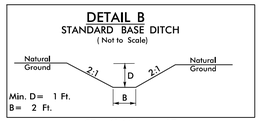
REVISIONS

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)



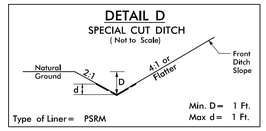
FROM STA. 33+00 TO STA. 33+10 -L- RT

DETAIL B
STANDARD BASE DITCH
(Not to Scale)



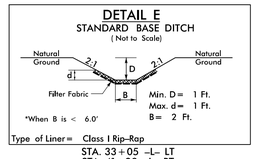
STA. 41+82 -L- LT

DETAIL D
SPECIAL CUT DITCH
(Not to Scale)



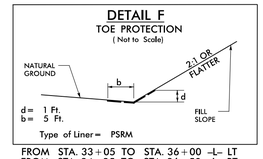
FROM STA. 33+00 TO STA. 33+50 -L- RT
FROM STA. 40+50 TO STA. 41+28 -L- RT

DETAIL E
STANDARD BASE DITCH
(Not to Scale)



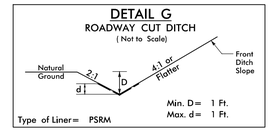
STA. 33+05 -L- LT
STA. 41+28 -L- RT

DETAIL F
TOE PROTECTION
(Not to Scale)

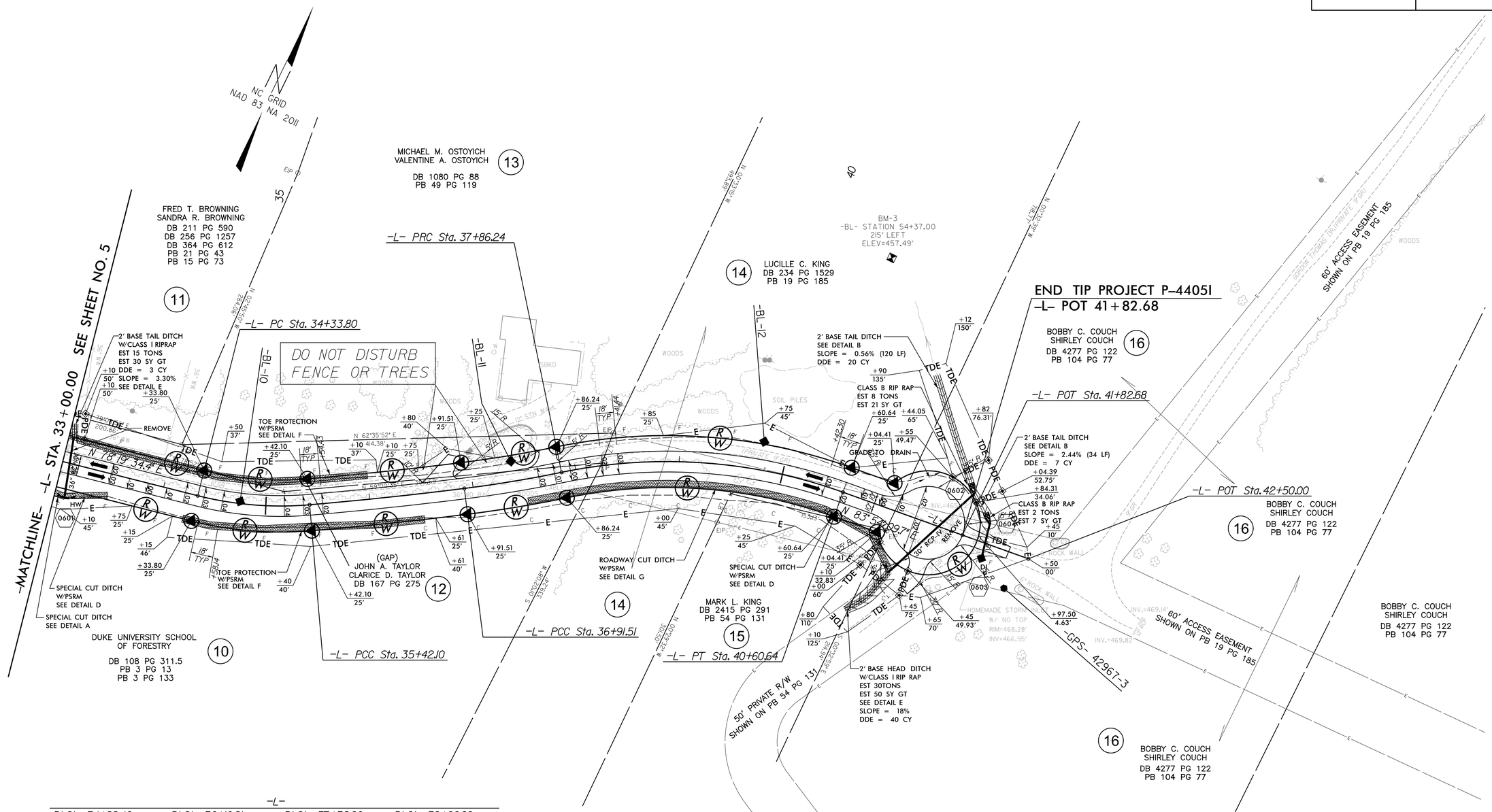


FROM STA. 33+05 TO STA. 36+00 -L- LT
FROM STA. 34+25 TO STA. 36+50 -L- RT

DETAIL G
ROADWAY CUT DITCH
(Not to Scale)



FROM STA. 37+50 TO STA. 40+50 -L- RT



-L-

PI Sta 34+88.46	PI Sta 36+16.81	PI Sta 37+38.90	PI Sta 39+26.99
Δ = 19° 05' 30.8" (LT)	Δ = 2° 15' 09.9" (LT)	Δ = 4° 31' 22.7" (LT)	Δ = 31° 26' 38.7" (RT)
D = 17° 37' 46.1"	D = 1° 30' 28.0"	D = 4° 46' 28.7"	D = 11° 27' 33.0"
L = 108.30'	L = 149.41'	L = 94.73'	L = 274.40'
T = 54.65'	T = 74.71'	T = 47.39'	T = 140.75'
R = 325.00'	R = 3,800.00'	R = 1,200.00'	R = 500.00'

FOR -L- PROFILE, SEE SHEETS 8 & 9

12/2/2015
ICA ENGINEERING, INC.

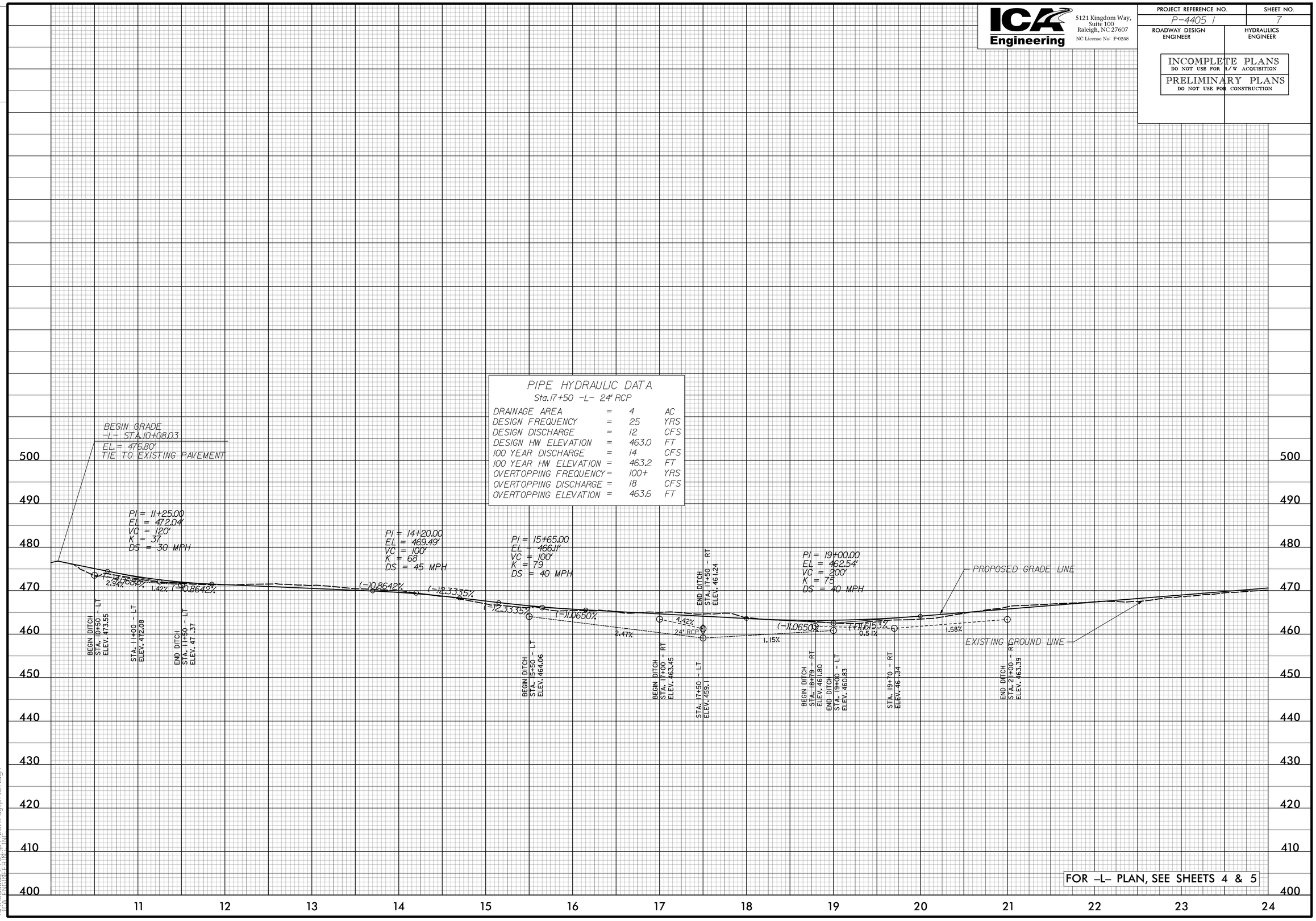
ICA Engineering
5121 Kingdom Way, Suite 100
Raleigh, NC 27607
NC License No: F-0258

PROJECT REFERENCE NO.	SHEET NO.
P-4405 I	7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DGN



FOR -L- PLAN, SEE SHEETS 4 & 5

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14:09:09 PM

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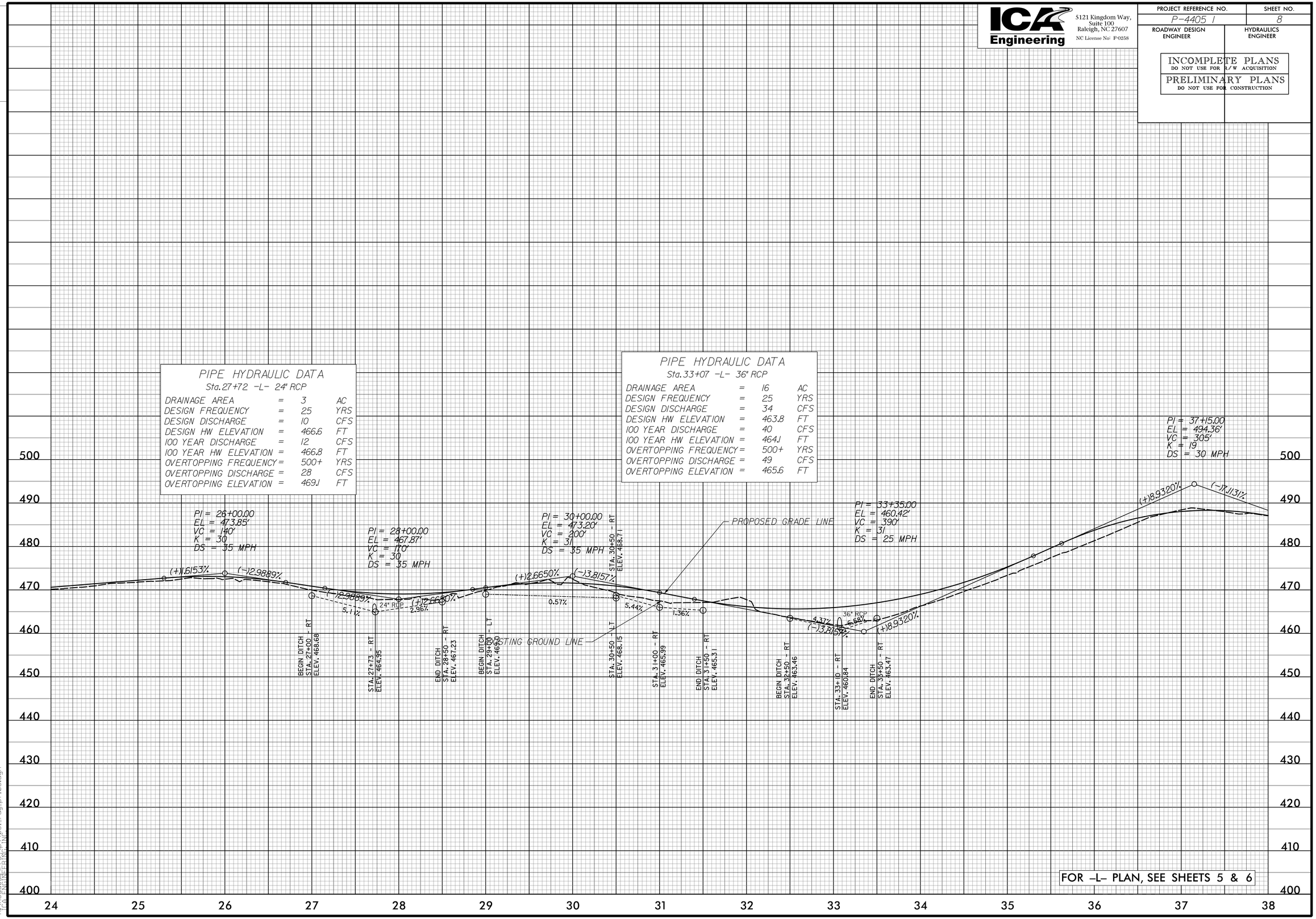
PROJECT REFERENCE NO.	SHEET NO.
P-4405 I	8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



FOR -L- PLAN, SEE SHEETS 5 & 6

DGN

1/21/2015
R:\Roadway\Proj\p4405i_rdy_pf108.dgn
ICA ENGINEERING, INC.

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Raleigh, NC 27607
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PROJECT REFERENCE NO.	SHEET NO.
P-4405 I	9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

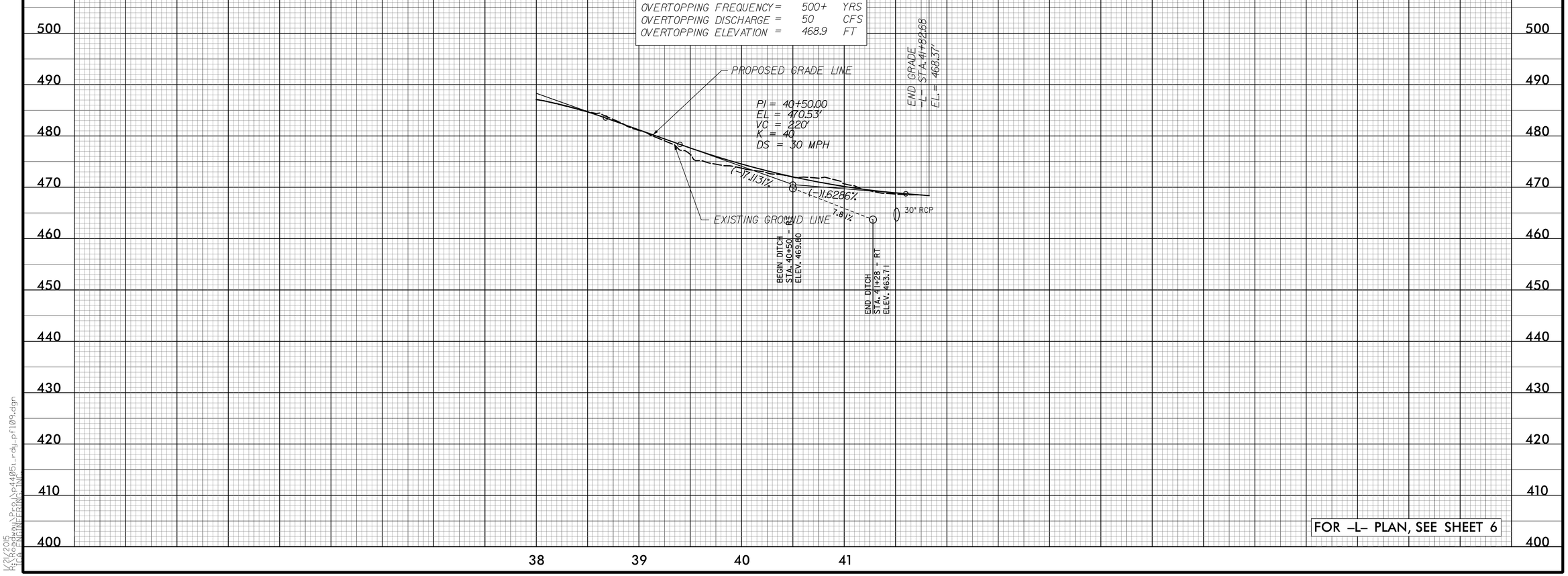
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PIPE HYDRAULIC DATA

Sta. 41+51 -L- 30" RCP

DRAINAGE AREA	=	8	AC
DESIGN FREQUENCY	=	25	YRS
DESIGN DISCHARGE	=	19	CFS
DESIGN HW ELEVATION	=	466.0	FT
100 YEAR DISCHARGE	=	23	CFS
100 YEAR HW ELEVATION	=	466.1	FT
OVERTOPPING FREQUENCY	=	500+	YRS
OVERTOPPING DISCHARGE	=	50	CFS
OVERTOPPING ELEVATION	=	468.9	FT



FOR -L- PLAN, SEE SHEET 6

DGN

1/21/2015
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