STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

January 21, 2010

U. S. Army Corps of Engineers
3331 Heritage Trade Drive
Wake Forest, NC 27587

ATTN: Mr. Andy Williams
NCDOT Coordinator

Subject: **Addendum to Application for Section 404 Nationwide Permit 14, Section 401 Water Quality Certification, and Randleman Watershed Buffer Authorization** for the proposed widening of West Market Street (SR 1008) from Bunker Hill Drive (SR 2007) to NC 68 in Guilford County, Federal Aid Project No. STP-1008(9); Division 7; TIP No. R-2611

Reference: R-2611 NW14 Permit and WQC 3820Application, November 30, 2010

Dear Sir:

The North Carolina Department of Transportation (NCDOT) proposes to revise the previously submitted application for TIP project R-2611. Changes have occurred on Permit Drawing Sheets 3, 4, 5, 6, 7, 8, 11 of 11 (Sites 1 and 2); Buffer Drawing Sheets 6, 7, 8 of 9 (Site 2); Roadway Plan Sheets 6, 18, and 19. These changes are due to comments from the North Carolina Division of Water Quality (NCDWQ).

A junction box was added near the outlet at Permit Drawing Site 1 to reduce velocity and prevent erosion. This change is shown on Permit Drawing Sheets 3, 4, 5 of 11 and Roadway Plan Sheet 6. No changes have been made to jurisdictional impacts as a result of the junction box at this location.

Stormwater drainage below Buffer Impact Site 2 was revised to allow for adequate treatment prior discharge into jurisdictional waters. This change is shown on Buffer Drawing Sheets 6, 7, 8 of 9 and Roadway Drawing Sheet 19. Total buffer impacts have not changed.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-431-2000
FAX: 919-431-2001

WEBSITE: WWW.NCDOT.ORG

LOCATION:
4701 Atlantic Ave.,
Suite 116
Raleigh, NC 27604

Rip rap has been placed in front of the high water culvert channel to function as a sill at Permit Drawing Site 2 (UT to East Fork of Deep River). This has caused the total permanent stream impacts to increase by 6 feet, while total temporary stream impacts have decreased by 6 feet. Total stream impacts requiring mitigation are now 200 feet. Total temporary stream impacts are now 49 feet. These changes are shown on Permit Drawing Sheets 6, 7, 8, 11 of 11 and Roadway Plan Sheet 18.

On May 8, 2008 USACE required a 1:1 mitigation ratio for impacts to UT to East Fork of the Deep River (Site 2). NCDOT proposes to mitigate for 200 linear feet of impacts at a 1:1 ratio. No mitigation is proposed for the 15 feet of bank stabilization or the 49 feet of temporary impacts. The EEP acceptance letter submitted with the original permit application sufficiently covers these impacts.

Please replace the previously submitted sheets with the enclosed revised Permit Drawing Sheets, Buffer Drawing Sheets, and Roadway Plan Sheets.

A copy of this addendum will be posted on the NCDOT Website at: http://www.ncdot.org/doh/preconstruct/pe/. If you have any questions or need additional information, please call James Pflaum at (919) 431-6527.

Sincerely,

E. L. Lusk

Gregory J. Thorpe, Ph.D.
Environmental Management Director, PDEA

Cc:

Mr. Brian Wrenn, NCDWQ (5 Copies)

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Dewayne Sykes, P.E., Utilities
Mr. Mark Staley, Roadside Environmental
Mr. J. M. Mills, P.E., Division 7 Engineer
Mr. Jerry Parker, Division 7 Environmental Officer
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. Gene Tarascio, P.E., PDEA
Mr. Scott McLendon, USACE, Wilmington
Mr. Gary Jordan, USFWS
Mr. Travis Wilson, NCWRC
Ms. Beth Harmon, EEP
Mr. Phillip Ayscue, NCDOT External Audit Branch

WETLAND PERMIT IMPACT SUMMARY

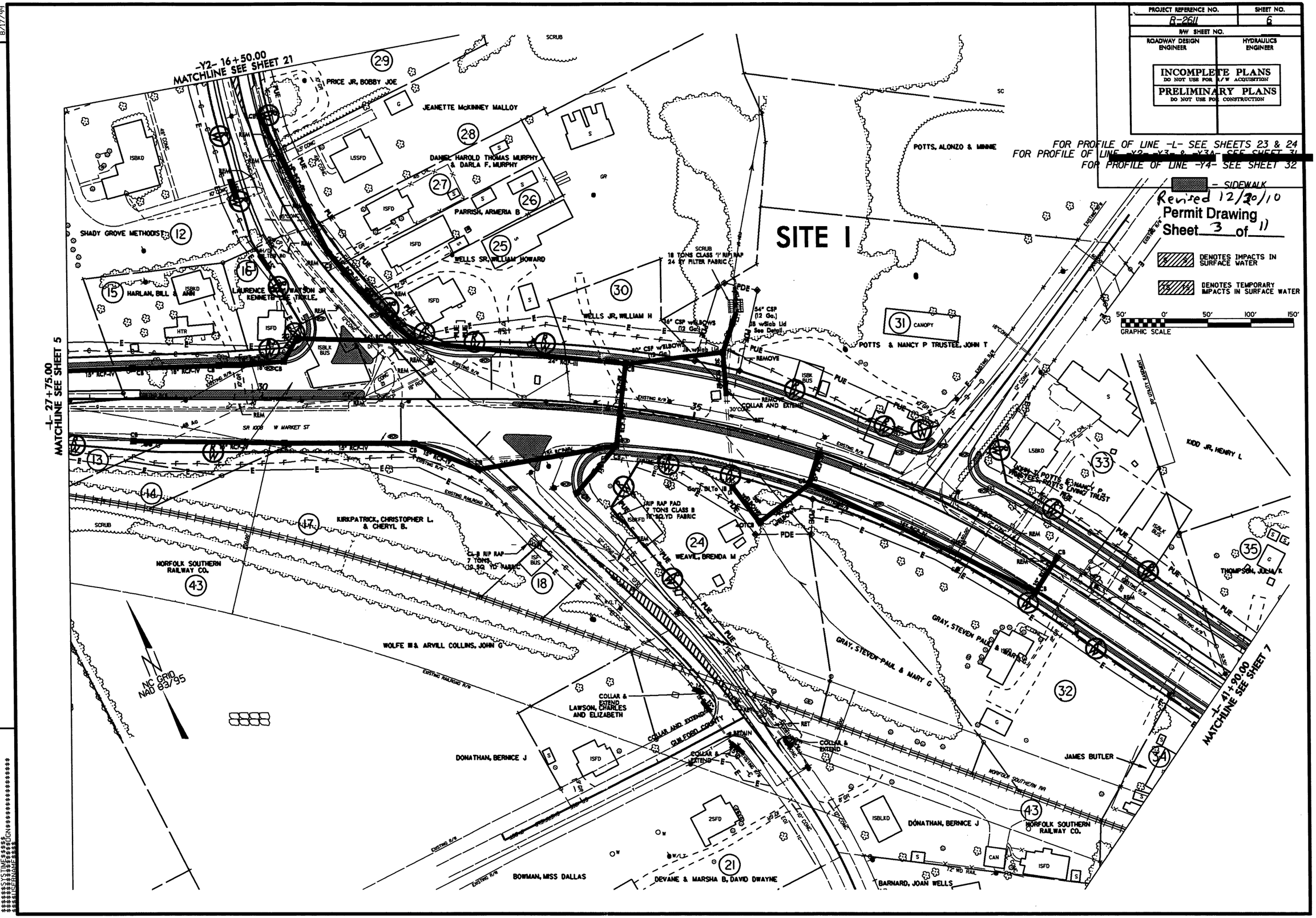
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
I	35+20 LT. -L-	30" CSP						<.01	<.01	0	16	
		Bank Stabilization								15		
II	190+60 LT. -L- TO	2 @ 6' X 8' RCBC						0.04	<.01	200	33	
	192+95 RT. -L-											
TOTALS:								0.04	0.01	215	49	

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GUILFORD COUNTY
WBS - 34482.1.1 (R-2611)

SHEET 11 of 11 Revised 12/22/2010

ATN Revised 3/31/05



REVISIONS

R/W Revisions: These revisions consist of changing property owners names for Parcels 27,28,and 34,Revising property lines for Parcels 15,and 33,combining Parcels 22,23,and 24 into Parcel 24,revised Prop.R/W and added TCE on Parcel 33.

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2611	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

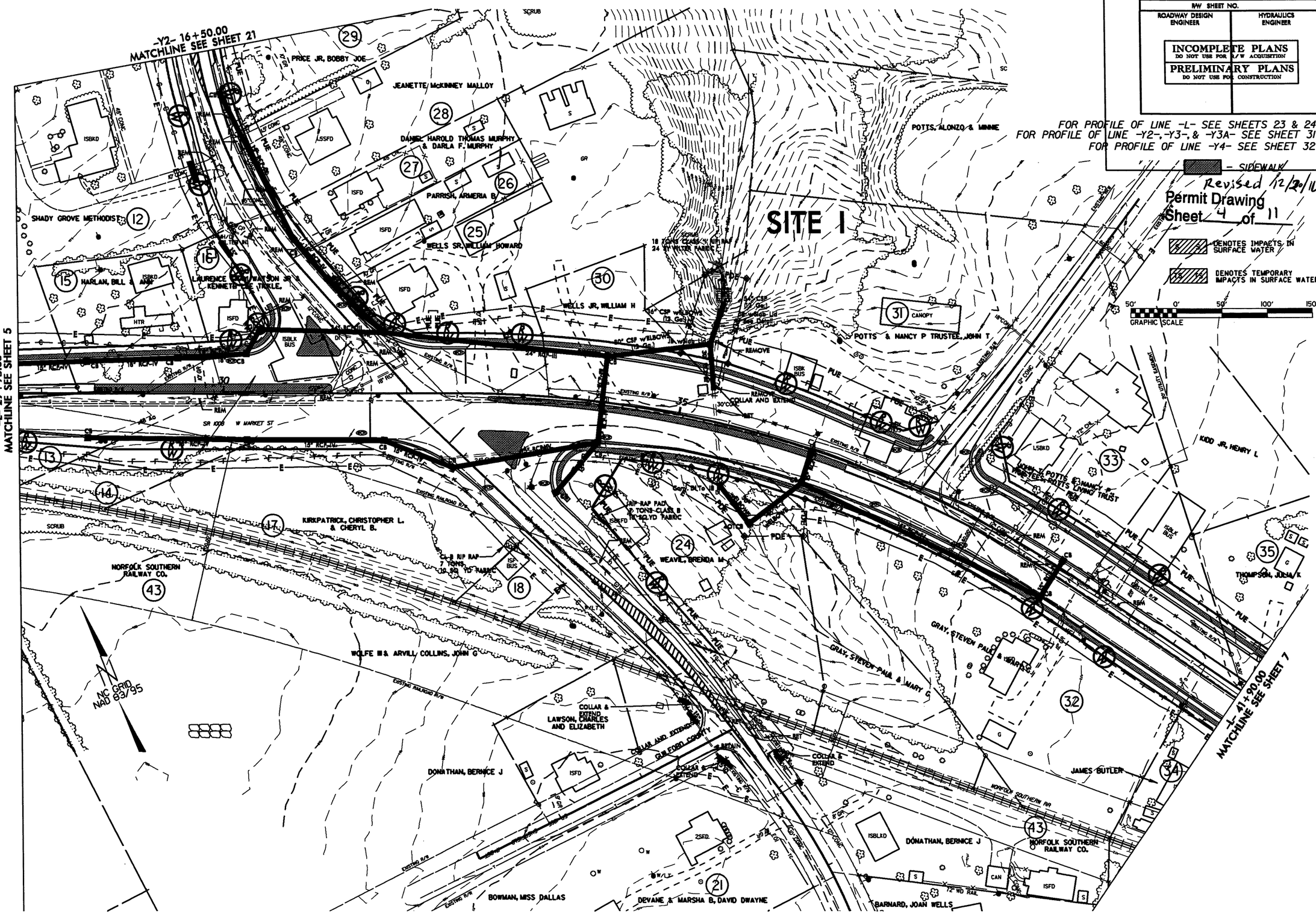
FOR PROFILE OF LINE -L- SEE SHEETS 23 & 24
FOR PROFILE OF LINE -Y2-, -Y3-, & -Y3A- SEE SHEET 31
FOR PROFILE OF LINE -Y4- SEE SHEET 32

- SIDEWALK

Revised 12/20/10
Permit Drawing
Sheet 4 of 11

DENOTES IMPACTS IN SURFACE WATER
DENOTES TEMPORARY IMPACTS IN SURFACE WATER

GRAPHIC SCALE 50' 0' 50' 100' 150'



REVISIONS
R/W Revisions: These revisions consist of changing property owner's names for Parcels 27,28,and 34,Revising property lines for Parcels 15,and 33,combining Parcels 22,23,and 24 Info
Parcel 24,revised Prop.R/W and added TCE on Parcel 33.

8/17/99

$$$$$$$SYSTIME$$$$$$
$$$$$$$SYSTIME$$$$$$
$$$$$$$SYSTIME$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2611	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

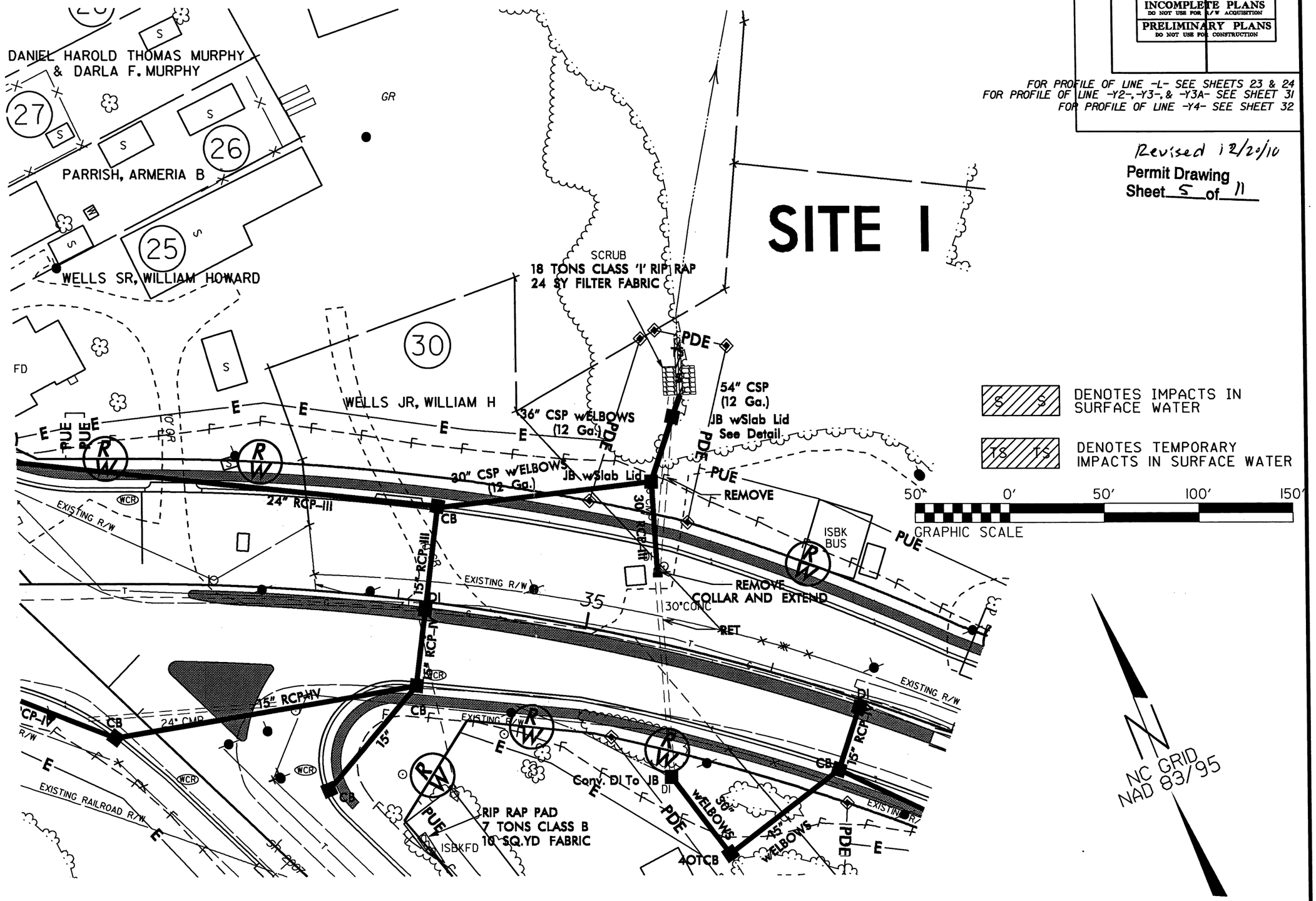
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

FOR PROFILE OF LINE -L- SEE SHEETS 23 & 24
FOR PROFILE OF LINE -Y2-, -Y3-, & -Y3A- SEE SHEET 31
FOR PROFILE OF LINE -Y4- SEE SHEET 32

Revised 12/20/10

Permit Drawing
Sheet 5 of 11

SITE 1



REVISIONS

R/W Revisions: These revisions consist of changing property owner's names for Parcels 27, 28, and 34, Revising property lines for Parcels 15, and 33, combining Parcels 22, 23, and 24 into Parcel 24, revised Prop. R/W and added TCE on Parcel 33.

8/17/99

$$$$$$$SYSTIME$$$$$
$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2611	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

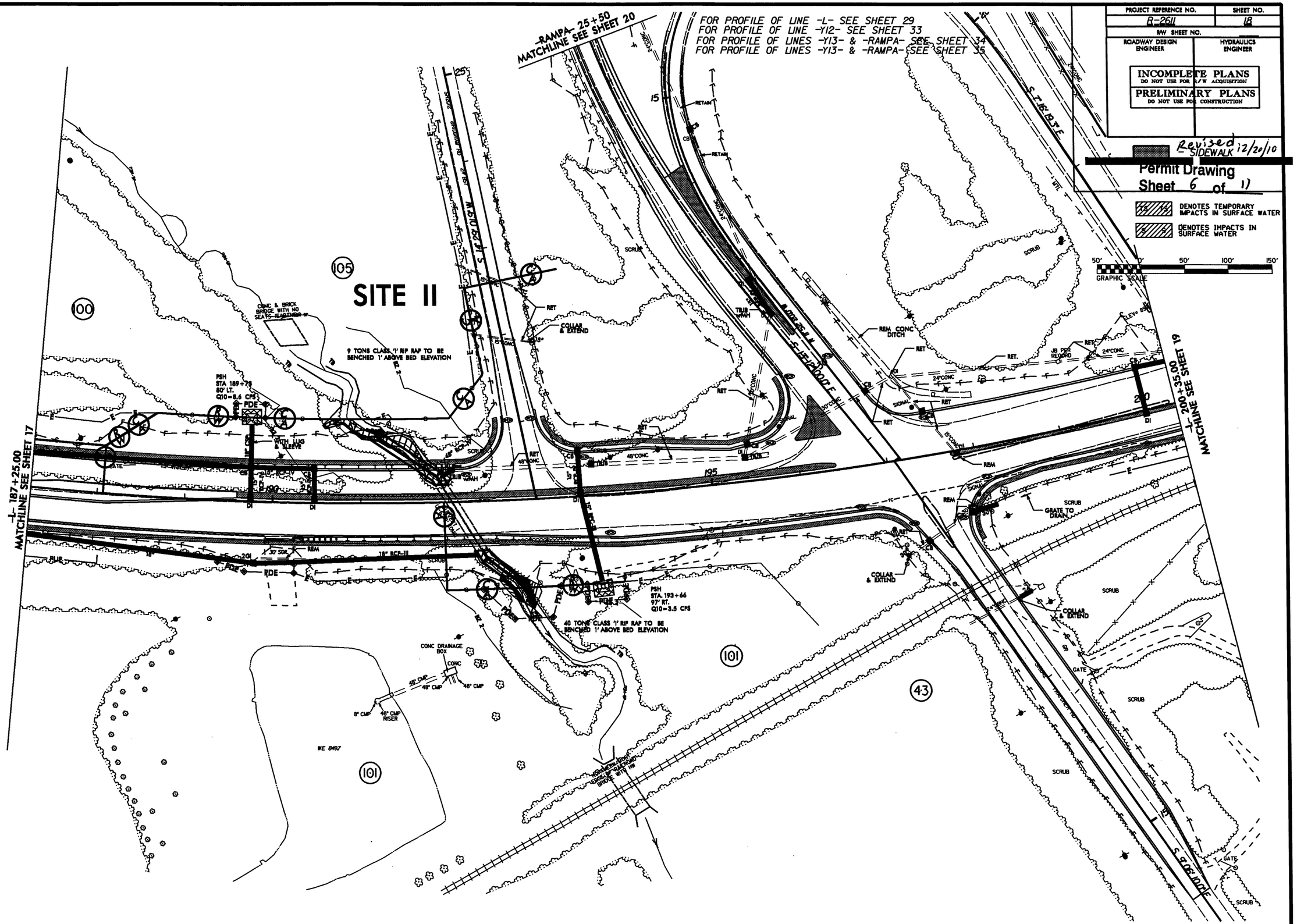
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Revised 12/20/10

SIDEWALK

Permit Drawing
Sheet 6 of 11



R/W Revision Combined Parcel 101 and 102 as Parcel 101. Added PUE to Parcel 101.wfb 4/7/10

REVISIONS

8/17/99

$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2611	18
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

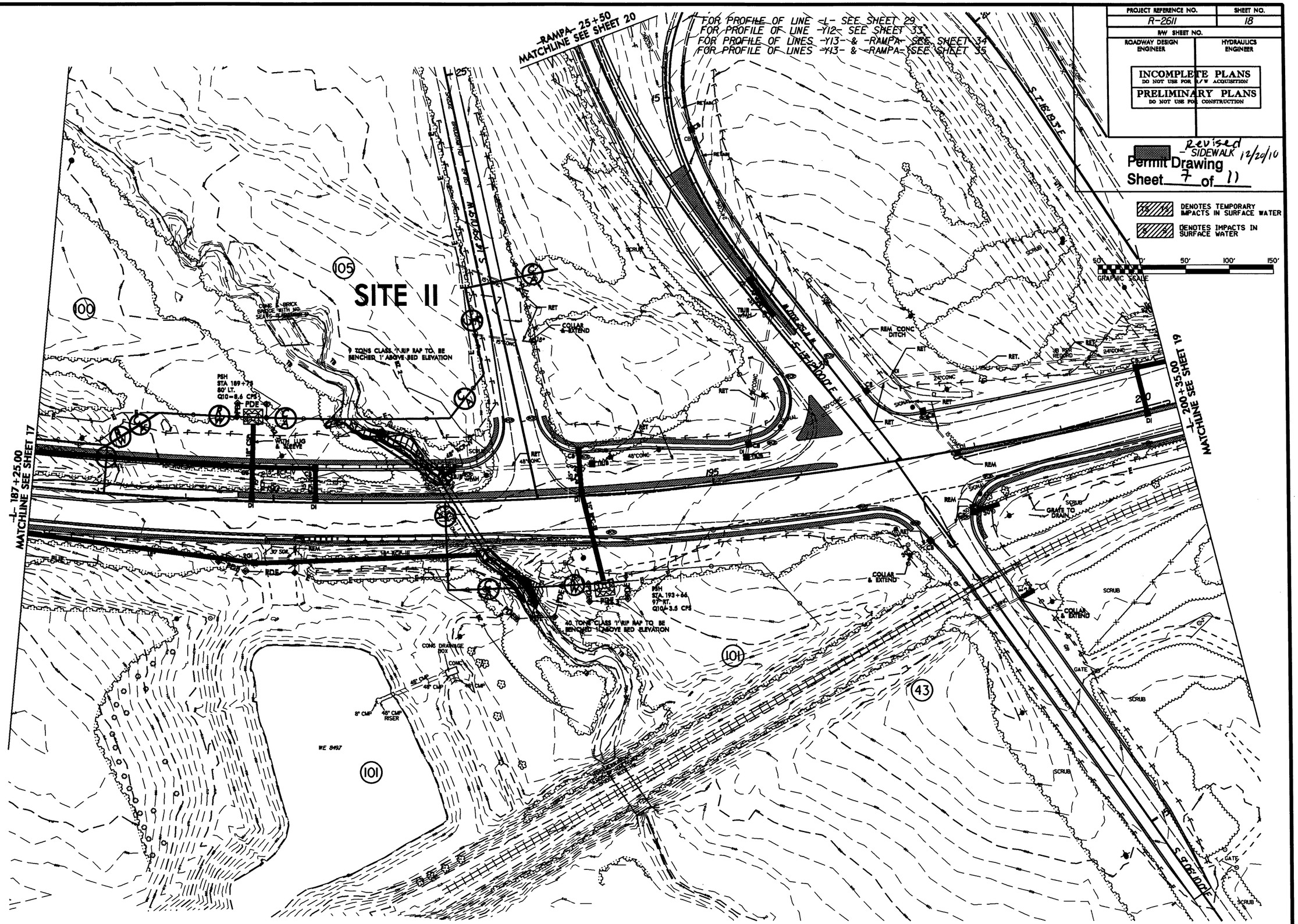
Revised - SIDEWALK 12/20/10

Permit Drawing
Sheet 7 of 11

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DENOTES IMPACTS IN SURFACE WATER

50' 0' 50' 100' 150'
GRAPHIC SCALE



REVISIONS

R/W Revision-Combined Parcel 101 and 102 as Parcel 101. Added PUE to Parcel 101.wrb 4/7/10

8/17/99

$$$$$$$SYSTIME$$$$$
$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2611	18
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

- SIDEWALK
Revised 12/20/10
Permit Drawing
Sheet 8 of 11

SITE II

105

CONC & BRICK BRIDGE WITH NO SEATS (EARTHEN) SF

9 TONS CLASS 'I' RIP RAP TO BE BENCHED 1' ABOVE BED ELEVATION

PSH
STA 189+75
80' LT.
Q10=8.6 CFS

PDE

WITH LUG & SLEEVE

18" CSP

15" RCP-IV

15" RCP-IV

48" RCP-IV

SCRUB

RET

48"CONC

15"CONC

COLLAR & EXTEND

15"

CB

DI

TBJB

WMH

15" RCP-IV

15" RPC-III

18" RCP-III

30' SOIL

REM

2GI

PDE

E

TB

BZ 2

WCR

190

195

PSH
STA. 193+66
97' RT.
Q10=3.5 CFS

40 TONS CLASS 'I' RIP RAP TO BE BENCHED 1' ABOVE BED ELEVATION

CONC DRAINAGE BOX

CONC

48" CMP

DENOTES IMPACTS IN SURFACE WATER

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

50' 0' 50' 100' 150'
GRAPHIC SCALE

NC GRID
NAD 83/95

REVISIONS

R/W Revision-Combined Parcel 101 and 102 as Parcel 101. Added PUE to Parcel 101.wtb 4/7/10

8/17/99

$$$$$$$SYSTIME$$$$$
$$$$$$$

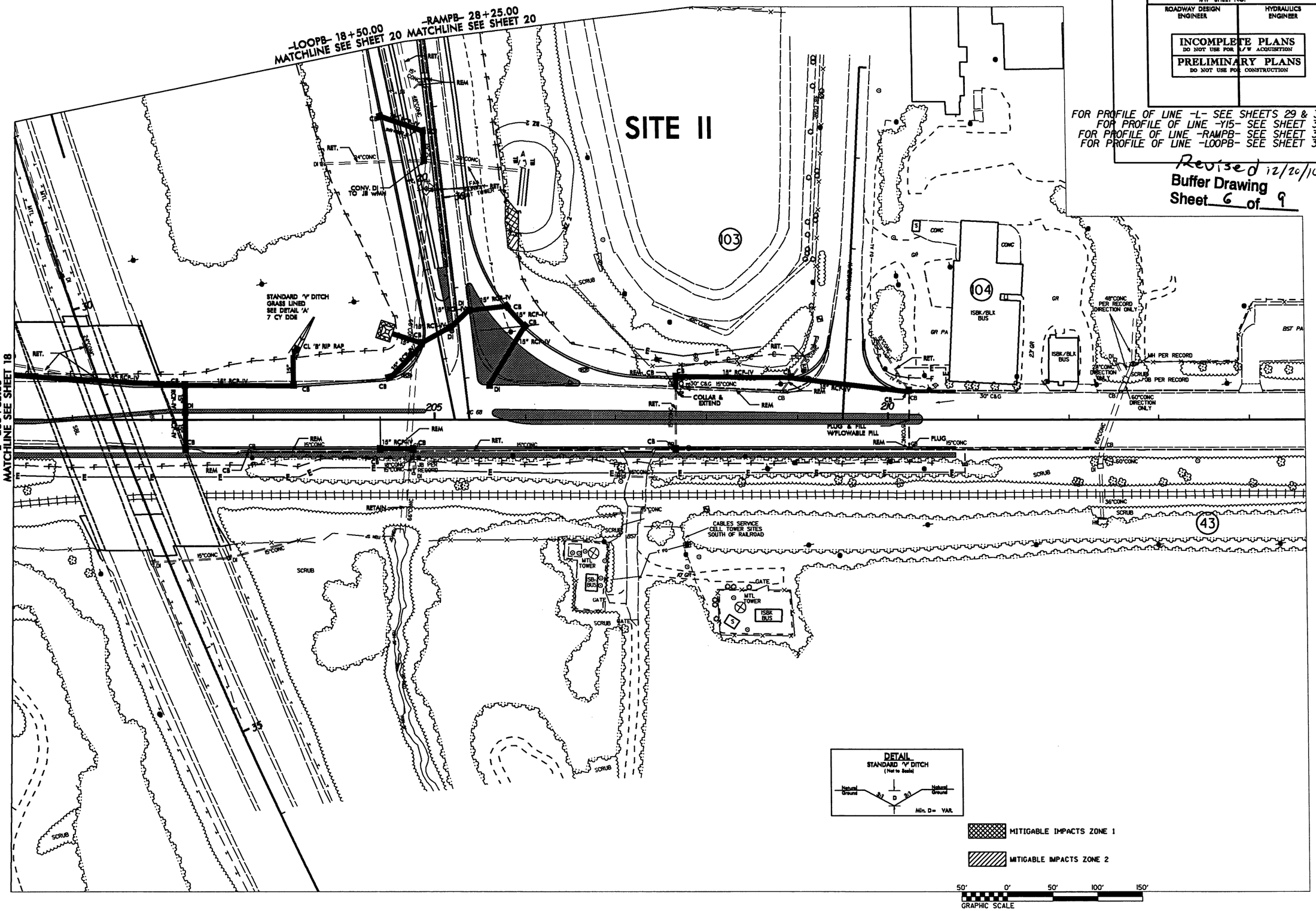
PROJECT REFERENCE NO.	SHEET NO.
R-2611	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

FOR PROFILE OF LINE -L- SEE SHEETS 29 & 30
FOR PROFILE OF LINE -Y15- SEE SHEET 34
FOR PROFILE OF LINE -RAMPB- SEE SHEET 35
FOR PROFILE OF LINE -LOOPB- SEE SHEET 36

Revised 12/20/10
Buffer Drawing
Sheet 6 of 9



REVISIONS
R/W Revisions Updated existing topographic data, wfb 4/7/10

8/17/99

$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2611	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

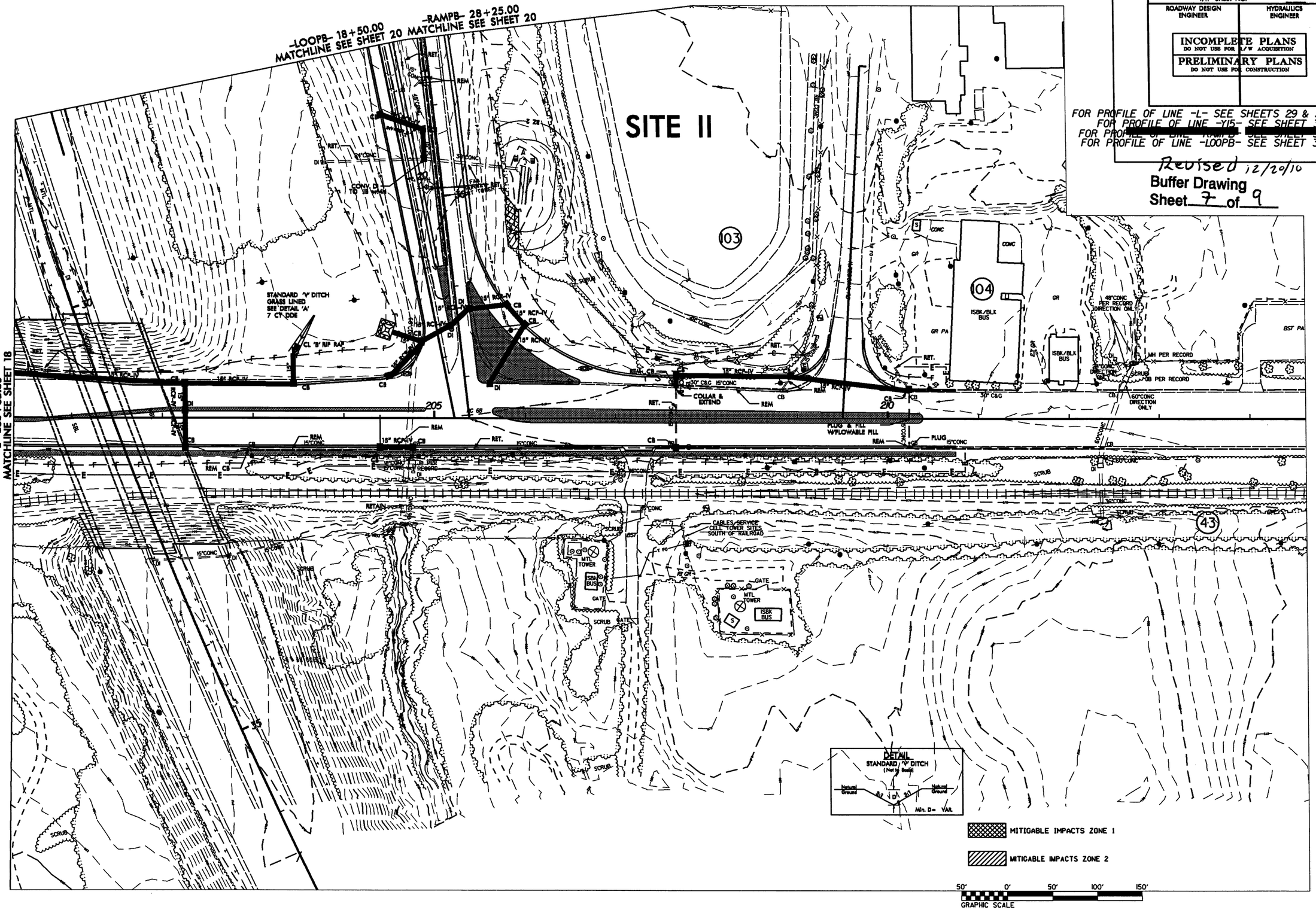
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

FOR PROFILE OF LINE -L- SEE SHEETS 29 & 30
FOR PROFILE OF LINE -Y15- SEE SHEET 34
FOR PROFILE OF LINE -RAMPB- SEE SHEET 35
FOR PROFILE OF LINE -LOOPB- SEE SHEET 36

Revised 12/20/10

Buffer Drawing
Sheet 7 of 9



8/17/99

REVISIONS

R/W Revision Updated existing topographic data, wtb 4/7/10

$$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$
$$$$$$$$USERNAME$$$$

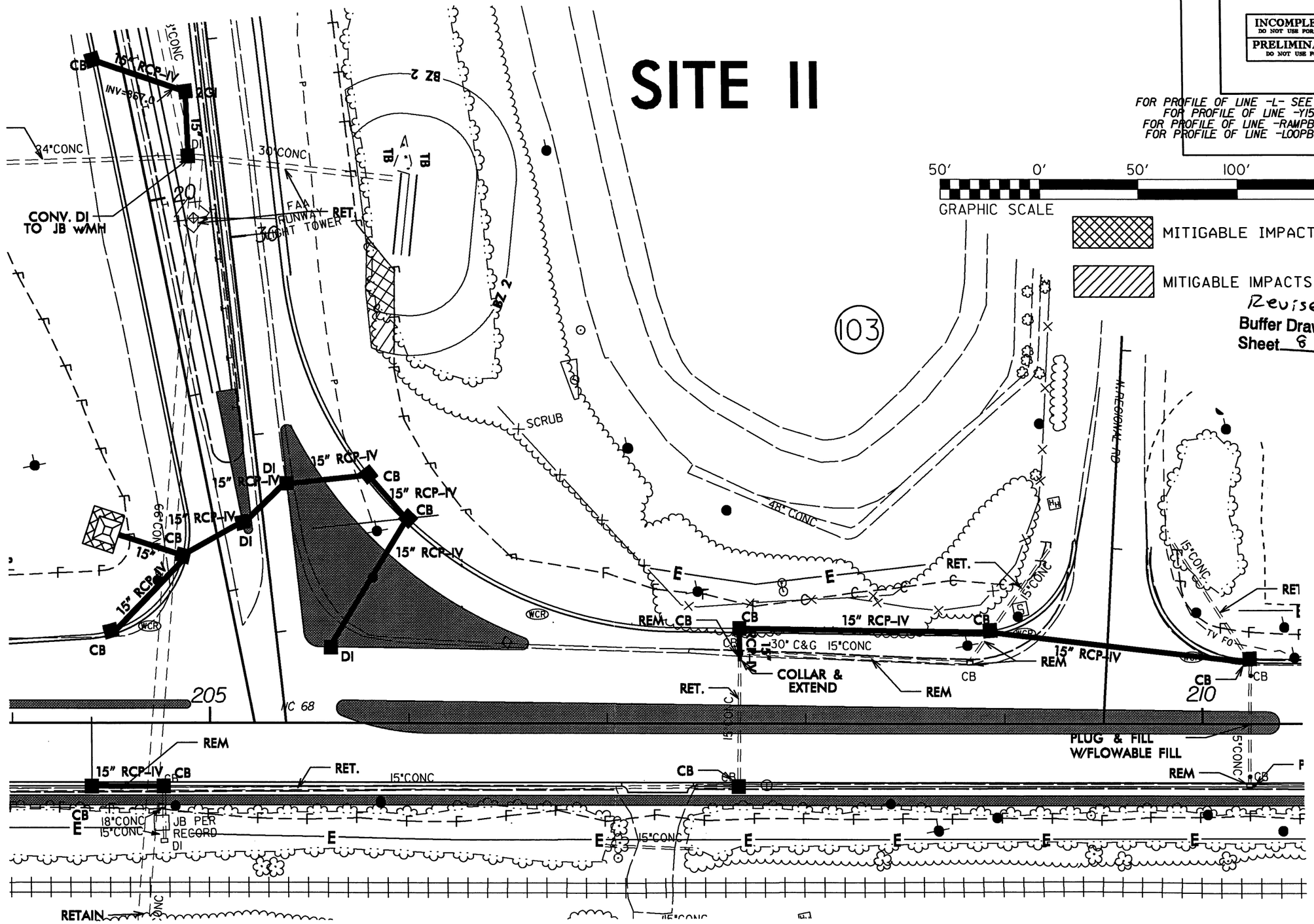
PROJECT REFERENCE NO.	SHEET NO.
R-2611	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

FOR PROFILE OF LINE -L- SEE SHEETS 29 & 30
FOR PROFILE OF LINE -Y15- SEE SHEET 34
FOR PROFILE OF LINE -RAMPB- SEE SHEET 35
FOR PROFILE OF LINE -LOOPB- SEE SHEET 36

SITE II



Revised 12/20/10
Buffer Drawing
Sheet 8 of 9

R/W Revision: Updated existing topographic data, wtb 4/7/10

REVISIONS

8/17/99

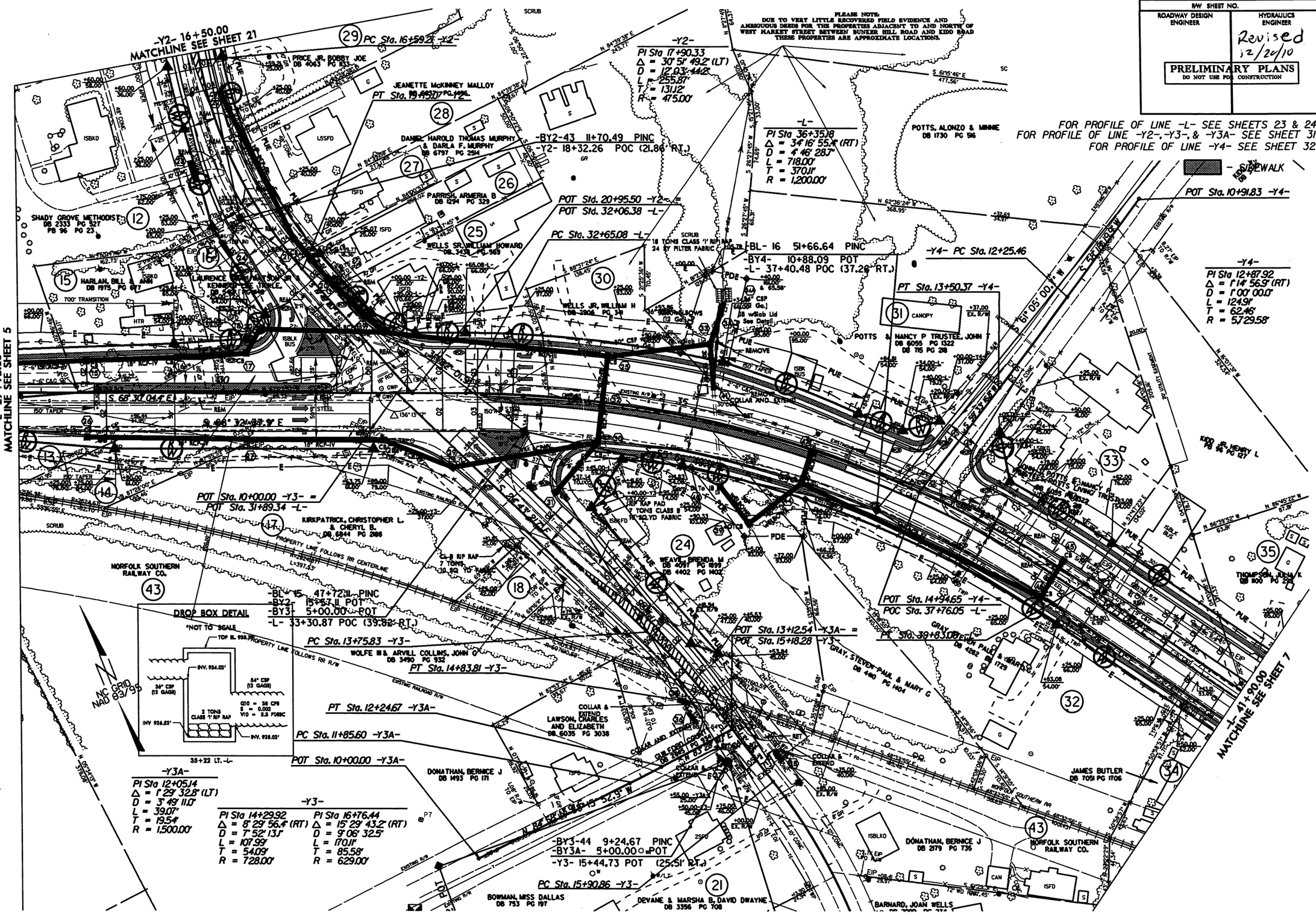
$$$$$$$$SYSTIME$$$$$$$$
$$$$$$$$DGN$$$$$$$$
$$$$$$$$USERNAME$$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2611	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	Revised 12/20/10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PLEASE NOTE:
DUE TO VERY LITTLE RECOVERED FIELD EVIDENCE AND AMBIGUOUS DEEDS FOR THE PROPERTIES ADJACENT TO AND NORTH OF WEST MARKET STREET BETWEEN BUNKER HILL ROAD AND KIDD ROAD THESE PROPERTIES ARE APPROXIMATE LOCATIONS.

FOR PROFILE OF LINE -L- SEE SHEETS 23 & 24
FOR PROFILE OF LINE -Y2-, -Y3-, & -Y3A- SEE SHEET 31
FOR PROFILE OF LINE -Y4- SEE SHEET 32



REVISIONS
R/W Revision: This revision consists of eliminating Parcels 19, 20, and Owner Unknown No Deed and eliminate the TCE on these Parcels, changing property owner's name and TCE on Parcel 17, and adding Parcels 33A and 40A. 7/27/10

8/17/99

$$$$$$$SYSTIME$$$$$$
$$$$$$$DGN$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2611	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	Revised 12/20/10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

- SIDEWALK

FOR PROFILE OF LINE -L- SEE SHEET 29
FOR PROFILE OF LINE -Y12- SEE SHEET 33
FOR PROFILE OF LINES -Y13- & -RAMPA- SEE SHEET 34
FOR PROFILE OF LINES -Y13- & -RAMPA- SEE SHEET 35

-RAMPA-
PI Sta 25+08.13
Δ = 22° 00' 00.0" (LT)
D = 7° 00' 00.0"
L = 314.29'
T = 159.10'
R = 818.51'

PIs Sta 27+63.63
Θs = 10° 30' 00.0"
Ls = 300.00'
LT = 200.35'
ST = 100.32'

-L-
PI Sta 191+25.61
Δ = 29° 52' 46.2" (LT)
D = 1° 30' 28.0"
L = 1,981.68'
T = 1,013.93'
R = 3,800.00'

-L00PA-
PIs Sta 15+34.31
Θs = 75° 59' 57.0"
Ls = 400.00'
LT = 296.27'
ST = 160.61'

PIs Sta 18+84.46
Θs = 75° 59' 57.0"
Ls = 400.00'
LT = 296.27'
ST = 160.61'

MATCHLINE SEE SHEET 20

MATCHLINE SEE SHEET 17

MATCHLINE SEE SHEET 19

NC GRID NAD 83/95

REGIONAL CENTER VENTURES
DB 4462 PG 1799
PB 139 PG 46

DEDICATED AS REGIONAL CENTER VENTURES OPEN SPACE DB 4462 PG 1799 CITY OF GREENSBORO

IRVIN JR, JOHN L
DB 1574 PG 178

CAINE FAMILY LLC
DB 6333 PG 168
PB 154 PG 141
DEDICATED TO THE CITY OF GREENSBORO AND THE PUBLIC FOR DRAINAGEWAY AND OPEN SPACE

NORFOLK SOUTHERN RAILWAY CO.

PREFORMED SCOUR HOLE
*NOT TO SCALE
PLAN VIEW
SECTION A-A

9 TONS CLASS "I" RIP RAP TO BE BENCHED 1' ABOVE BED ELEVATION

40 TONS CLASS "I" RIP RAP TO BE BENCHED 1' ABOVE BED ELEVATION

-BL-37 214+51.04 PINC
-BY13- 5+00.00 POT
-BY14- 25+86.04 PINC
-Y14- 28+78.15 POC (75.02' LT)

POT Sta. 23+23.85 -L00PA-

POT Sta. 31+31.85 -RAMPA-
POC Sta. 196+989.10 -L-
POT Sta. 10+10.31 -L00PA-
POC Sta. 197+16.18 -L-

POT Sta. 29+88.91 -Y12-
POC Sta. 192+98.81 -L-

POT Sta. 10+00.00 -Y13-
POC Sta. 197+08.22 -L-

-BY13-65 9+32.43 (PINC
-Y13- 12+09.40 POT (15.02

-BL-36 207+59.92 PINC
-BY12- 29+37.15 POT
-L- 193+25.74 POC (39.48' RT)

ST Sta. 21+23.85 -L00PA-

TS Sta. 12+38.05 -L00PA-

CS Sta. 26+63.31 -RAMPA-

ST Sta. 29+63.31 -RAMPA-

-L- 187+25.00

-L- 200+35.00

REVISIONS

R/W Revision-Combined Parcel 101 and 102 as Parcel 101. Added PUE to Parcel 101. wrb 4/7/10

8/17/99

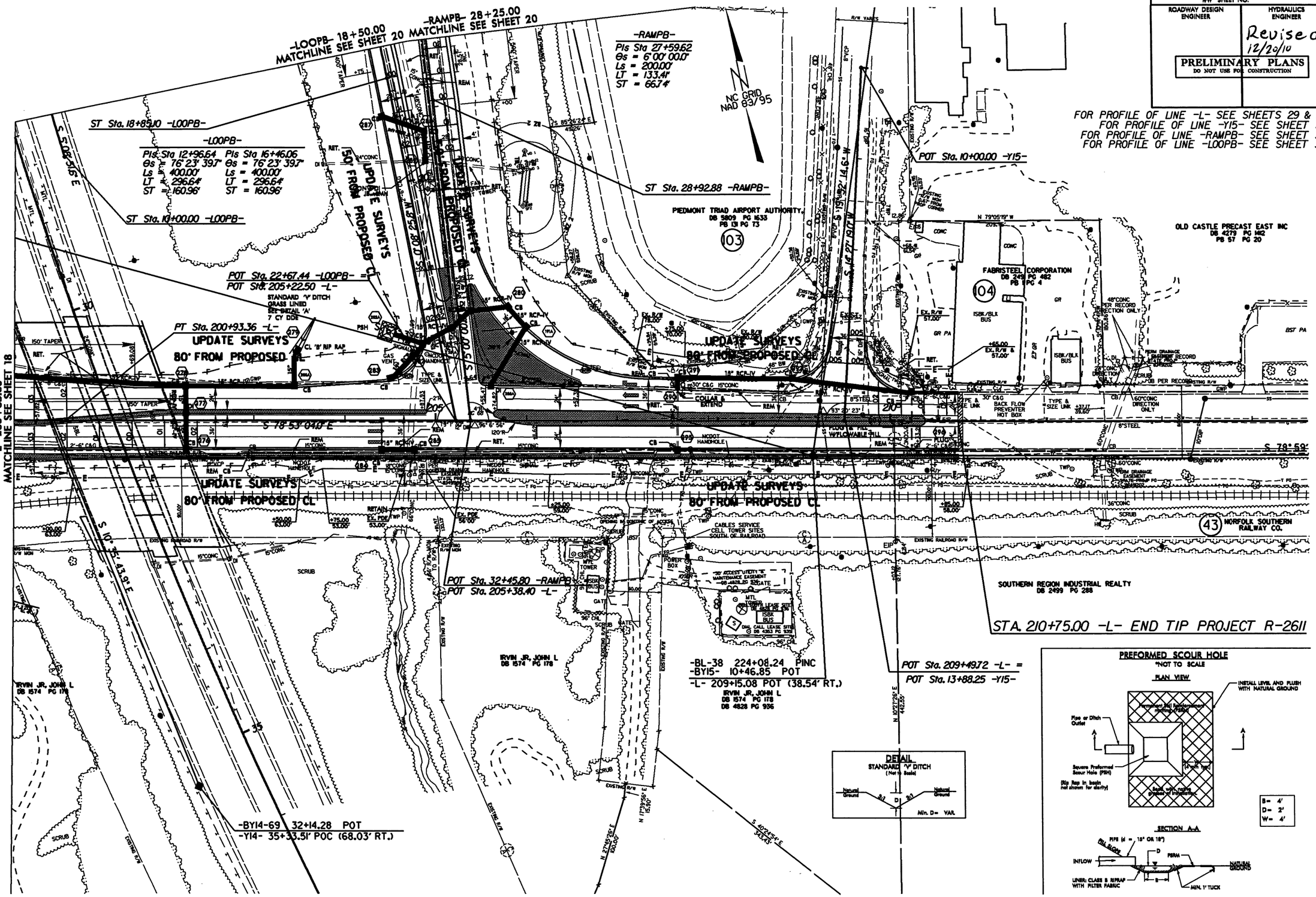
$$$$$$SYSTIME$$$$$$
$$$$$$DGN$$$$$$
$$$$$$USERNAME$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2611	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Revised 12/20/10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

FOR PROFILE OF LINE -L- SEE SHEETS 29 & 30
FOR PROFILE OF LINE -Y15- SEE SHEET 34
FOR PROFILE OF LINE -RAMPB- SEE SHEET 35
FOR PROFILE OF LINE -LOOPB- SEE SHEET 36



REVISIONS

R/W Revision Updated existing topographic data. wtb 4/7/10

8/17/99