STATE OF NORTH CAROLINA
# DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

September 12, 2011

Mr. Ronnie Smith
U.S. Army Corps of Engineers
Wilmington Field Office
P.O. Box 1890
Wilmington, NC 28402-1890

Subject: **Permit Modification Request for the Section 404 Individual Permit, Section 401 Individual Water Quality Certification and CAMA Consistency Certification** for the proposed improvements US 17 (Western Parkway) from SR 1403 (Country Club Road) to Western Boulevard in Onslow County. Federal Aid. No. STP-NHF-17(63), TIP No. U-4007B, Debit $570 from WBS 35008.1.1

Reference: Original Permit Application requested May 11, 2010
Section 404 Individual Permit issued September 1, 2010; USACE Permit No. SAW- 2001-00919
Section 401 Water Quality Certification issued August 26, 2010; NCDWQ Project No. 20100362

Dear Sir:

Please see the enclosed revised permit drawings and roadway plans, for the above referenced project. Permanent fill for riparian wetland impacts has been reduced by 0.10 acre. This was accomplished by utilizing more of the existing abandoned railroad causeway. However, the presence of an additional stream and wetlands at Site 2 (service road for Ramp-IB, PC Sta. 18+94.25) on U-4007B was determined after the Jurisdictional Determination (dated September 1, 2010). As a result, excavation in riparian wetlands has increased by 0.22 acre and mechanized clearing in wetlands has increased 0.08 acre. The portion of these wetlands originally permitted for impacts was defined as non-riparian; however, upon further review the new portion delineated is considered riparian. Net riparian wetland impacts have increased by 0.20 acre, which increases total permanent impacts for U-4007B to 2.9 acres.

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

TELEPHONE: 919-707-6100
FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

**LOCATION:**
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

The debit ledger for the Clayhill Mitigation Site has been revised to provide compensatory mitigation at a ratio of 2:1 for the unavoidable wetland impacts due to U-4007B (See attached).

The additional impacts of 265 feet increase total permanent stream impacts for the entire U-4007B project to 1,564 linear feet. Compensatory mitigation for the additional 265 feet of stream impact will not be necessary, due to its low quality per Brad Shaver (USACE) and Mason Herndon (DWQ).

Section 404 Permit: NCDOT requests that the U.S. Army Corps of Engineers (USACE) review this application and issue a modification for the Individual 404 Permit issued September 1, 2010, as required for the above-described activities.

Section 401 Permit: NCDOT requests that the NCDWQ review this application and issue a modification for the Individual 401 Certification issued August 26, 2010, as required for the above-described activities. In accordance with 15A NCAC 2H .0501(a) we are providing five copies of this modification request to the North Carolina Department of Environmental and Natural Resources for their approval and $570 to act as payment for processing the permit modification (see subject line).

CAMA: The NCDOT certifies that the proposed activity, including the modification, complies with the enforceable policies of North Carolina's approved management program and will be conducted in a manner consistent with such program. Based on these changes, NCDOT requests that NCDCM issue a revised consistency concurrence letter if necessary.

A copy of this permit modification request and its distribution list will be posted on the NCDOT website at http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html. Thank you for your assistance with this project. If you have any questions or need additional information, please contact John S. Merritt at jsmerritt@ncdot.gov or (919) 707-6140.

Sincerely,

E. L. Lusk

for Gregory J. Thorpe, Ph.D., Manager
Project Development and Environmental Analysis Branch

cc:

NCDOT Permit Application Standard Distribution List

## Compensatory Mitigation

The Clayhill Farm Mitigation Site was constructed as mitigation for TIP project R-2105 along Highway 58 in southwestern Jones County. The 355.6 acre tract is located in Jones County approximately 6 miles southeast of Maysville and is surrounded by the Croatan National Forest. This tract includes 65.4 acres of non-riverine wetland restoration and 32.3 acres of riverine wetland restoration. This site also consists of 152.1 acres of non-riverine preservation and 2.0 acres of riverine preservation. The Clayhill mitigation site has a total of 7,950 l.f. of stream credit consisting of 5,210 l.f. of perennial stream restoration, 2,200 l.f.of intermittent stream restoration, and 1,350 l.f. of perennial stream preservation. The restoration sites consist of non-riverine wet hardwood forest, mesic pine flatwoods, mesic hardwood forest and streamhead Atlantic white-cedar forest. The preservation site consists of mixed pine regeneration, mesic hardwood forest, and Coastal plain bottomland hardwood forest.

Impacts to 2.50 acres of riparian wetlands will be debited from the NCDOT's Clayhill Mitigation Site. The site is located in Jones County in HUC 03020106, adjacent to the project HUC (03030001). Since non- riparian credits are not available within HUC 03030001, it is DWQ policy to debit adjacent HUCs at a 1.5:1 ratio, but USACE required a 2:1 ratio so NCDOT will cover the impacts with a 2:1 ratio.

An additional .40 acres of impacts associated with U-4007 will also be debited from Clayhill Mitigation Site.

| Site Name | River Basin | HUC | Mitigation Type | TIP Debit (ac) | TIP Debit (ac) | Mitigation Ratios | Mitigation Source |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| Clayhill Mitigation Site | White Oak | 03020106 | | **U-4007** | **U-4007 MOD** | | |
| | | | Riparian Wetland Restoration | 2.50 | .40 | 2:1 | Clayhill Mitigation Site |
| | | | Non-Riparian Wetland Restoration | 5.0 | | 2:1 | EEP |

## 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) |
| 1 | 29+25 -Y2- | 2 AT 6'x7' RCBC | | | | | | 0.05 | | 290 | | |
| | | | | | | | | | | | | |
| 2 | 23+60-26+92 -RAMP1B- LT | ROADWAY FILL | 0.09 | | 0.14 | | | | | | | |
| | 12+00-19+91 -SER-1 | ROADWAY FILL | 0.16 | | 0.09 | 0.09 | | 0.02 | | 265 | | |
| | | | | | | | | | | | | |
| 3 | 52+58-53+32 -Y1A SBL- LT | 48" RCP | 0.02 | | | 0.01 | | | | | | |
| | 23+85-25+70 -RAMP 1A- | 2 AT 42" RCP | 0.14 | | | 0.02 | | | | | | |
| | 14+00-15+50 -LOOP 1A- | 2 AT 42" RCP | 0.30 | | | 0.03 | | | | | | |
| | 47+73-48+82 -SBL RAMP- | 2 AT 42" RCP | 0.24 | | | 0.02 | | | | | | |
| | | | | | | | | | | | | |
| 4 | 14+72-18+45 -L- | 60" RCP | 0.57 | | | 0.08 | | 0.04 | | 301 | | |
| | | | | | | | | | | | | |
| 5 | 12+43 -Y4- LT | ROADWAY FILL | <.01 | | | <.01 | | | | | | |
| | | | | | | | | | | | | |
| 6 | 39+14-41+39 -L- | 72" RCP | 0.26 | | | 0.03 | | 0.03 | | 260 | | |
| | | | | | | | | | | | | |
| 7 | 57+11-62+05 -L- | 42" RCP | 0.33 | | | 0.04 | | 0.09 | | 326 | | |
| | | ROADWAY FILL | | | | | | | | | | |
| | | | | | | | | | | | | |
| 8 | 69+71-70+78 -Y1A SBL- LT | DITCH EFFECT | 0.16 | | | | | | | | | |
| | | | | | | | | | | | | |
| 9 | 23+00-24+41 -Y4- | 2 AT 36" RCP | 0.09 | | | 0.02 | | 0.01 | | 122 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| TOTALS: | | | 2.35 | 0.00 | 0.22 | 0.33 | 0.00 | 0.24 | 0 | 1564 | | |

**REMARKS:** SITE 1)THE EXISTING SILLS TO BE REMOVED TO SATISFY FEMA REGULATIONS FOR THE CULVERT EXTENSION.

ATN Revised 5/26/11

SITE 2) SITE 2 IS A TOTAL TAKE.

SITE 3) THE AREA BETWEEN -L- AND LOOP 1A WILL BE A TOTAL TAKE. ADDITIONAL TOTAL TAKE (NO IMPACT) = 0.09 AC

SITE 6) THE SLIVER WETLAND TO THE RIGHT OF -L- WILL BE A TOTAL TAKE. ADDITIONAL TOTAL TAKE (NO IMPACT SW = <0.01AC CHANNEL = 45 ft WETLANDS = 0.02AC

**Note:** FILL IN STORMWATER PONDS STA. 45+OO TO 52+23 -L- RT (PSH 09)* AND 25+88 TO 26+27 -Y4- LT (PSH 13)** HAVE BEEN COORDINATED WITH DWQ-STORMWATER SECTION.

* THE FILL IN THE STORMWATER POND ON PLAN SHEET (PSH) #9 IS 0.51 AC. AND THE VOL. REDUCTION IS 0.59 AC-FT

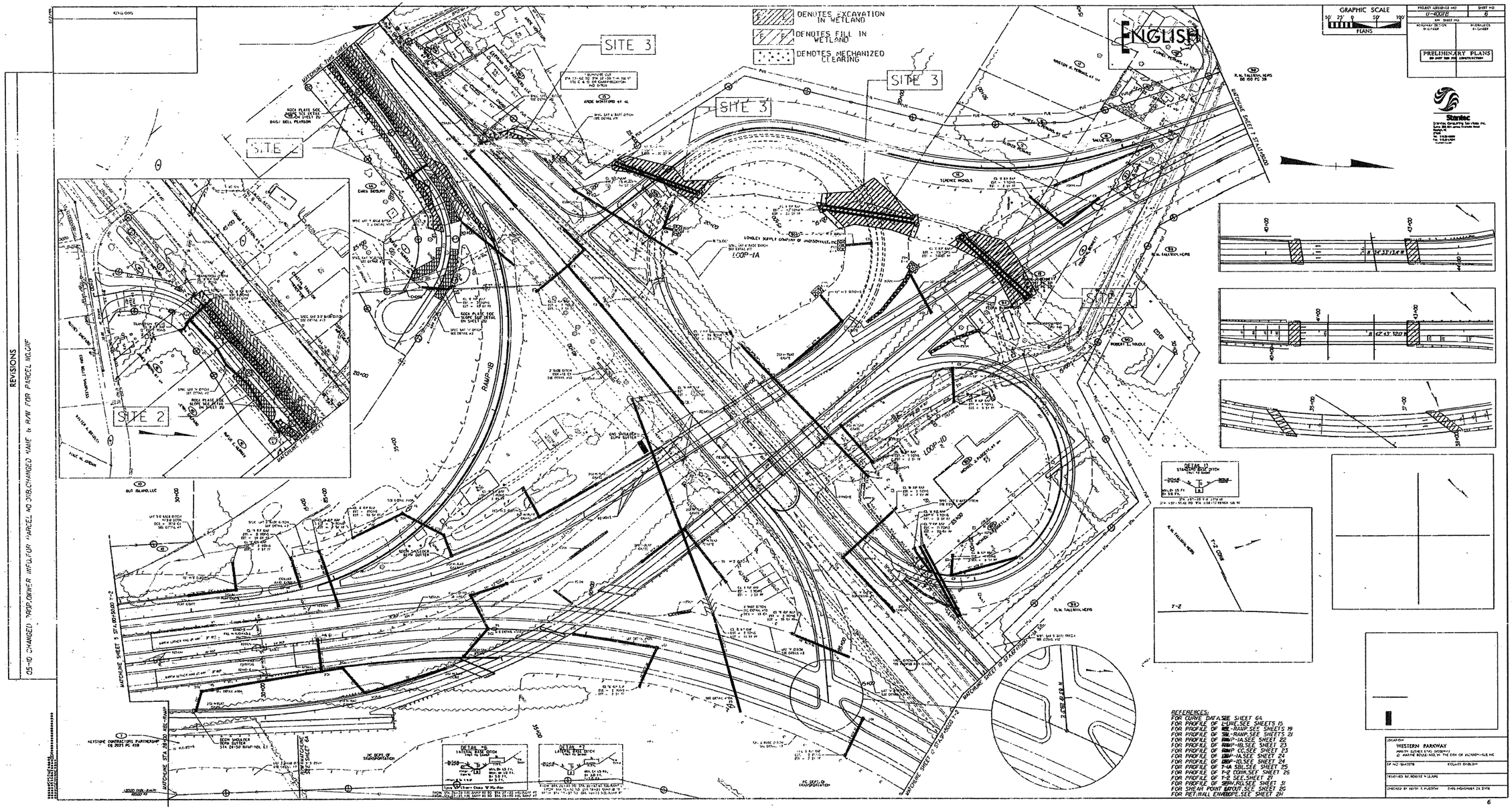
** THE FILL IN THE STORMWATER POND ON PLAN SHEET (PSH) #13 IS 0.03 AC. AND THE VOL. REDUCTION IS 0.1 AC-FT

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ONSLOW COUNTY
WBS - 35008.1.1 (U-4007B)

SHEET 1 REV 5/26/2011

Revised 6/15/2011
Permit Drawing
Sheet 1 of 7

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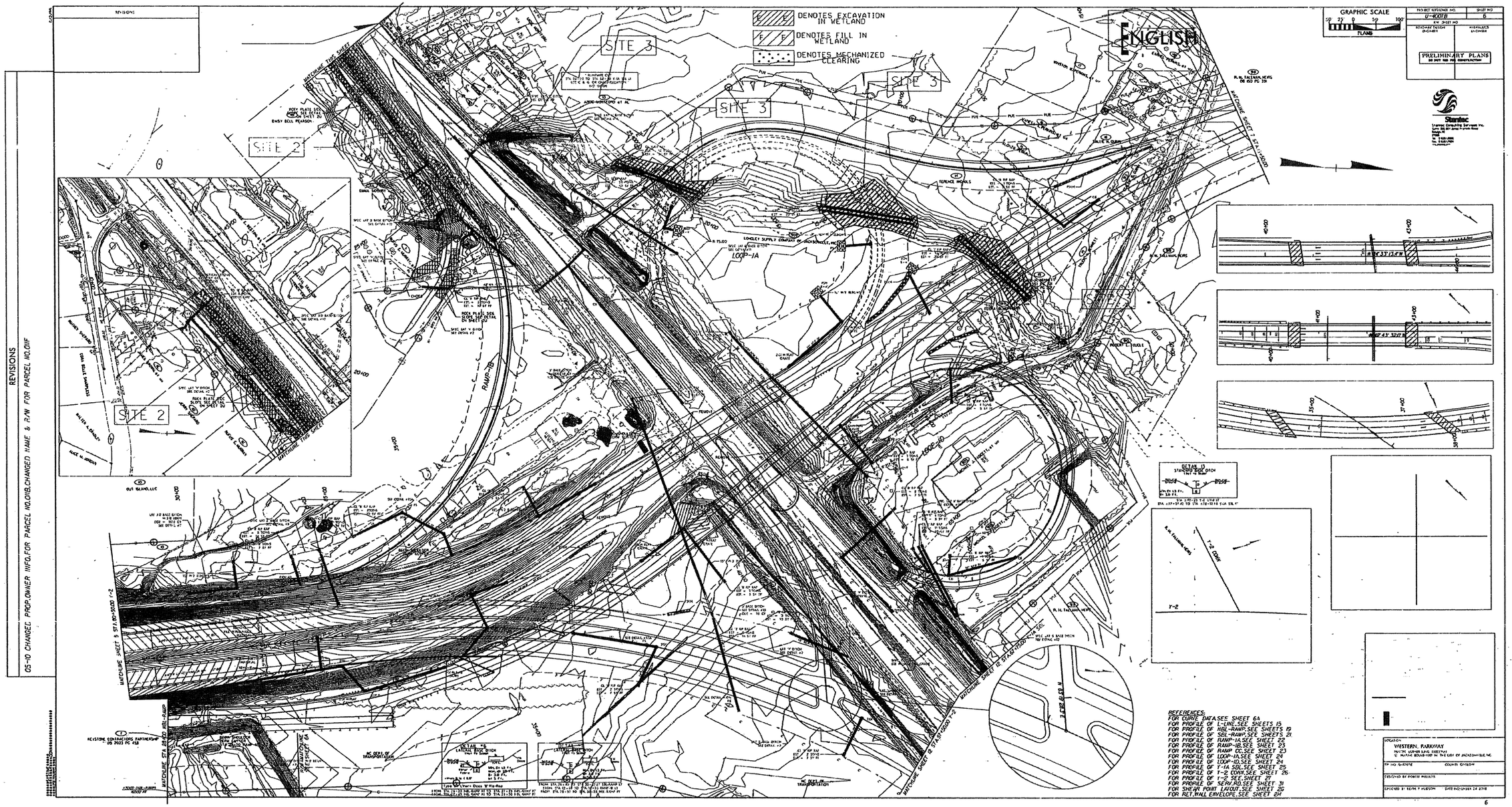
Permit Drawing

Sheet 2 of 7

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Permit Drawing
Sheet 3 of 7

| PROJECT REFERENCE NO. | SHEET NO. |
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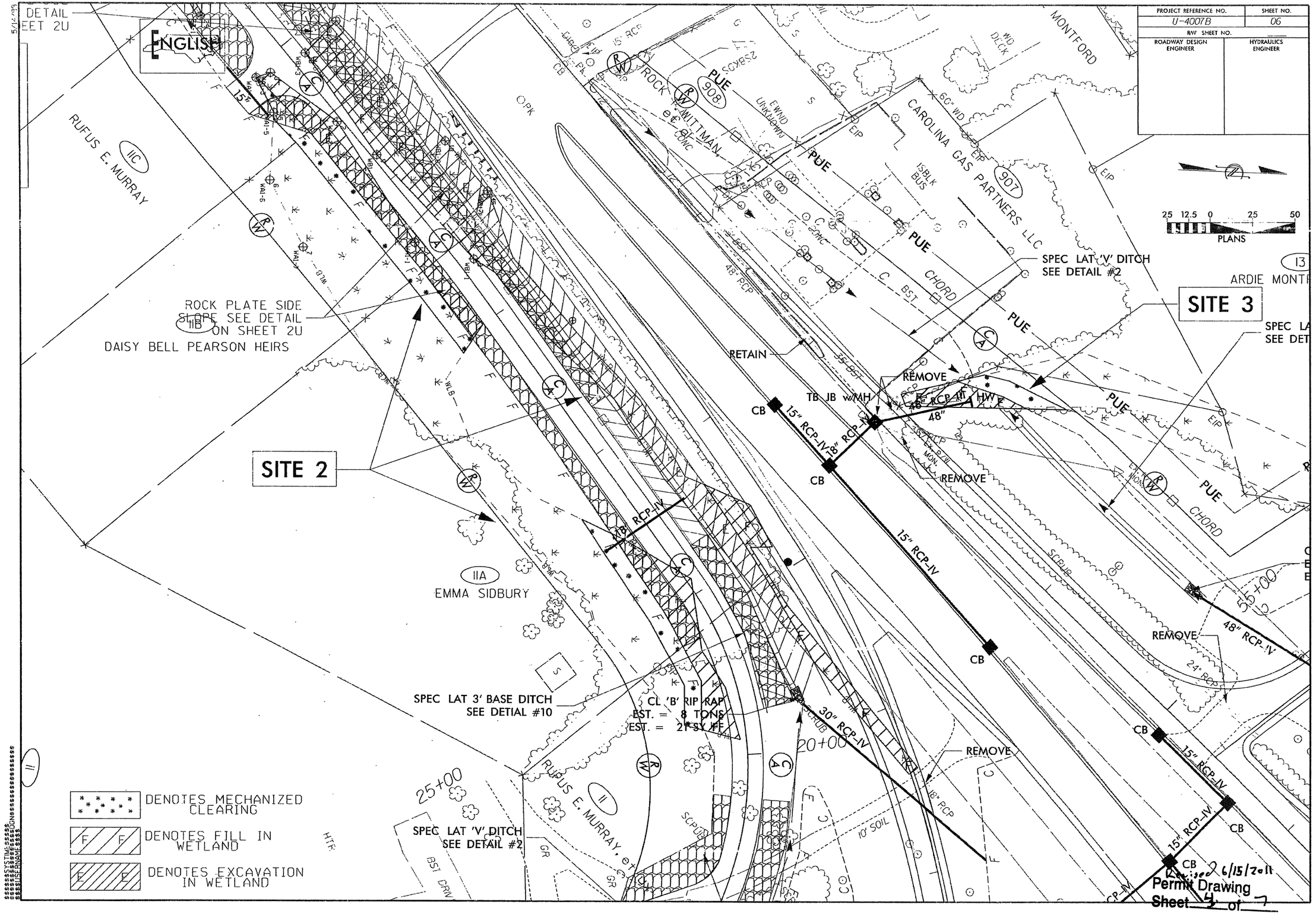


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Sheet 4 of 7

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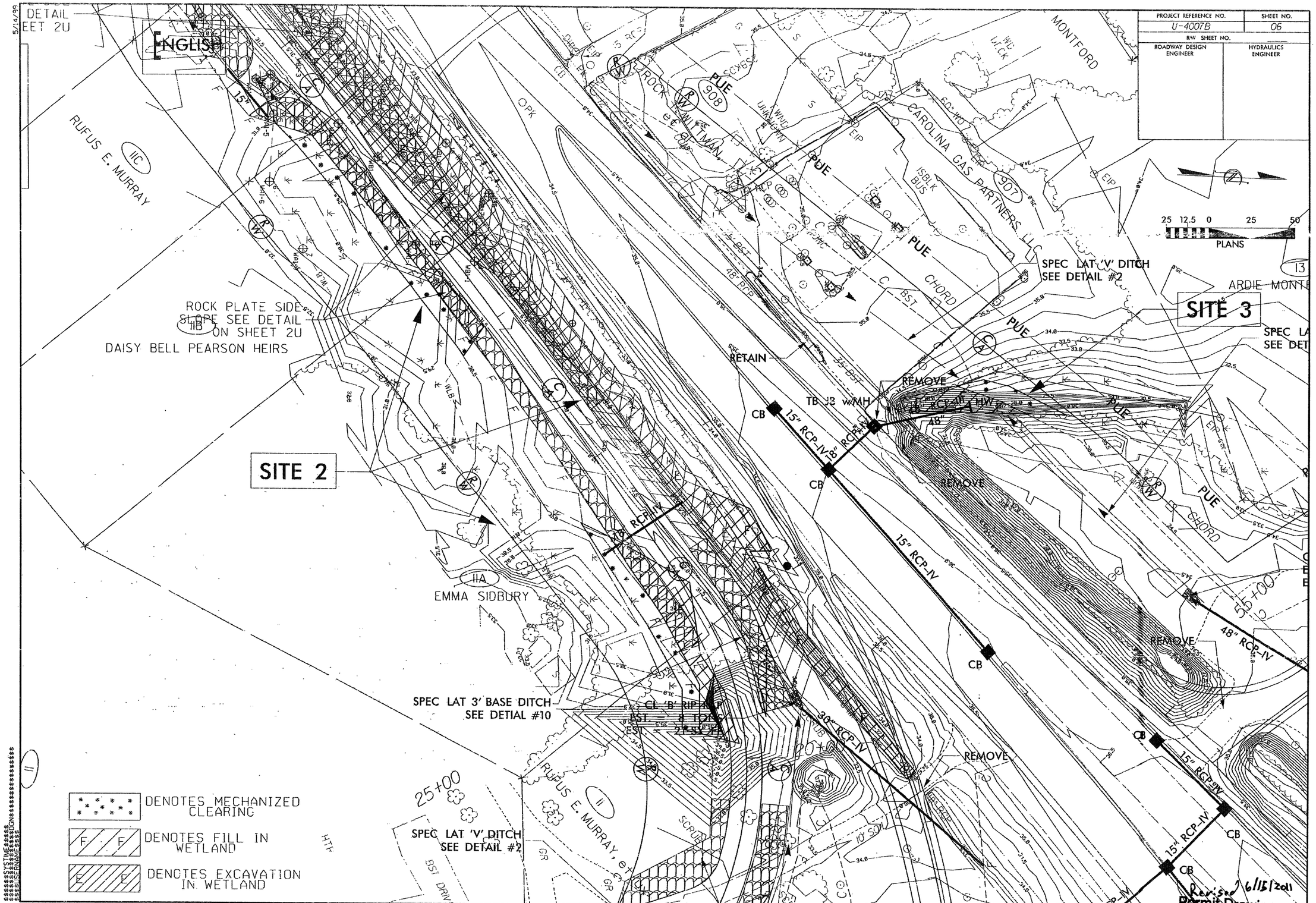

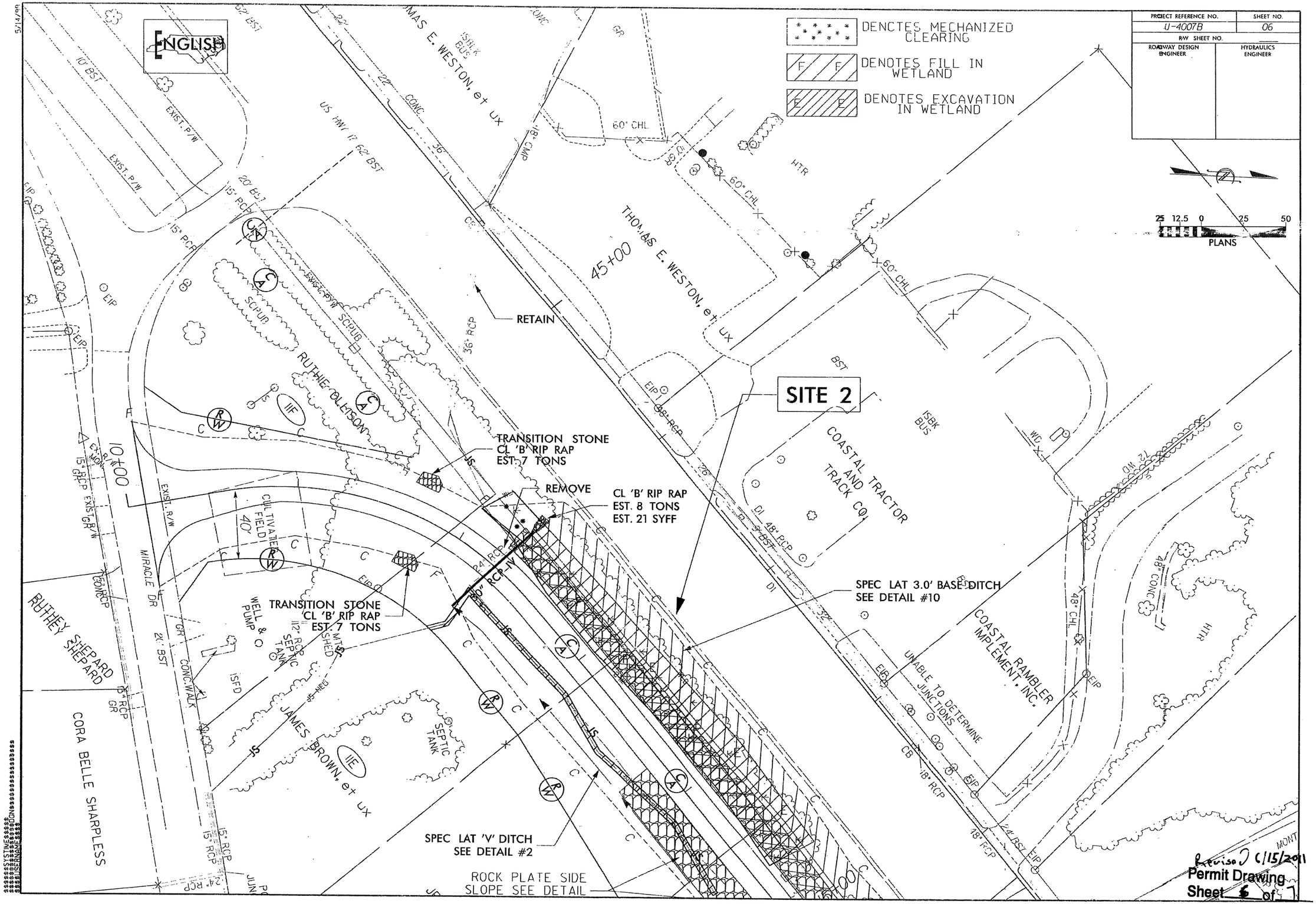
ENGLISH
DENOTES MECHANIZED CLEARING
DENOTES FILL IN WETLAND
DENOTES EXCAVATION IN WETLAND
PROJECT REFERENCE NO.
U-4007B
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ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
25 12.5 0 25 50
PLANS
THOMAS E. WESTON, et ux
US HWY 17 62' BST
45+00
RETAIN
SITE 2
COASTAL TRACTOR AND TRACK CO.
COASTAL RAMBLER IMPLEMENT, INC.
RUTHIE OLLISON
10+00
TRANSITION STONE
CL 'B' RIP RAP
EST. 7 TONS
REMOVE
CL 'B' RIP RAP
EST. 8 TONS
EST. 21 SYFF
SPEC LAT 3.0' BASE DITCH
SEE DETAIL #10
TRANSITION STONE
CL 'B' RIP RAP
EST. 7 TONS
RUTHEY SHEPARD
CORA BELLE SHARPLESS
JAMES BROWN, et ux
MIRACLE DR
SPEC LAT 'V' DITCH
SEE DETAIL #2
ROCK PLATE SIDE
SLOPE SEE DETAIL
Revised 6/15/2011
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JAMES BROWN, et ux

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CULTIVATED FIELD

SEPTIC TANK

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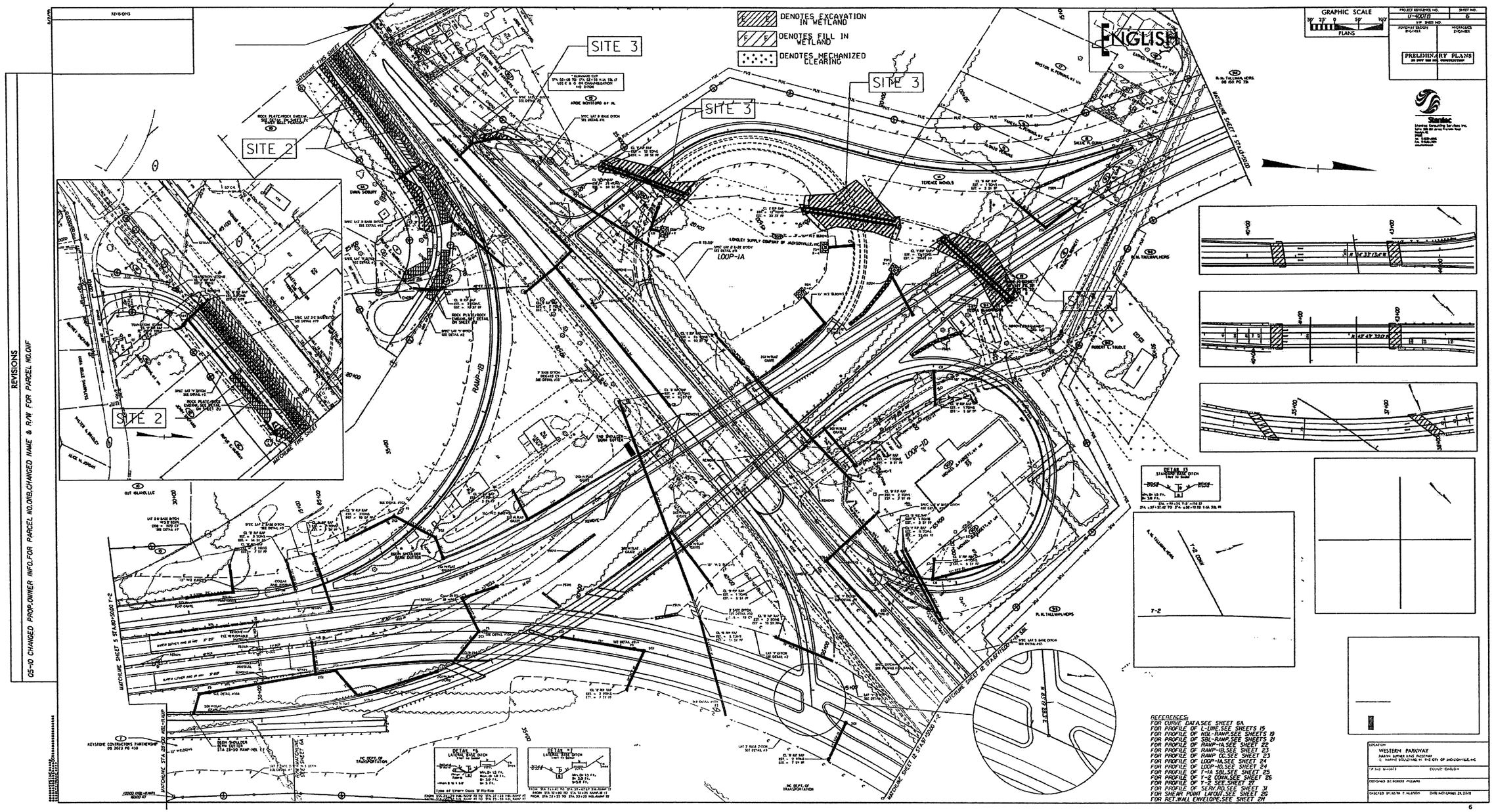
Permit Drawing
Sheet 7 of 7

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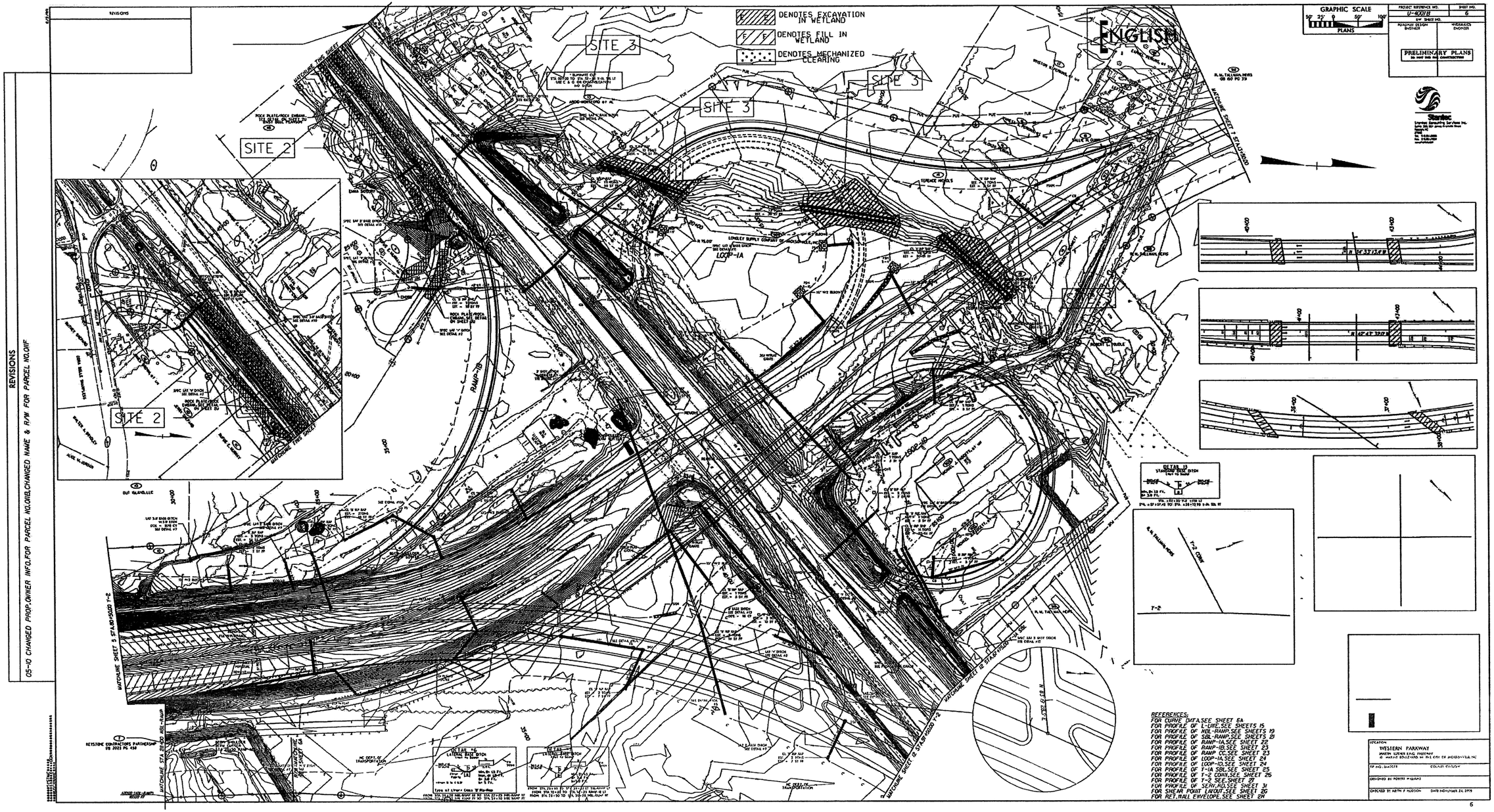
Sheet 1 of 8

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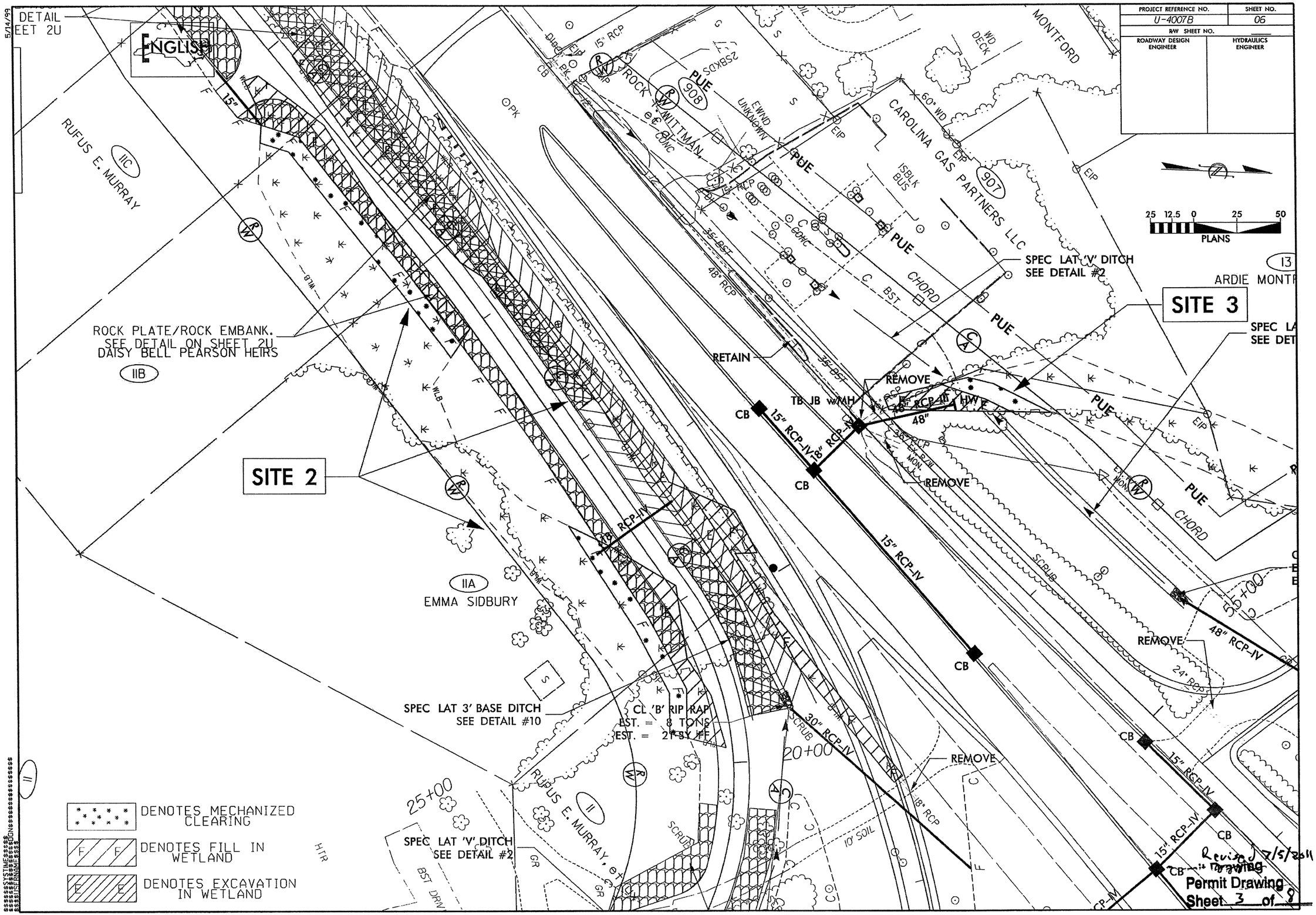


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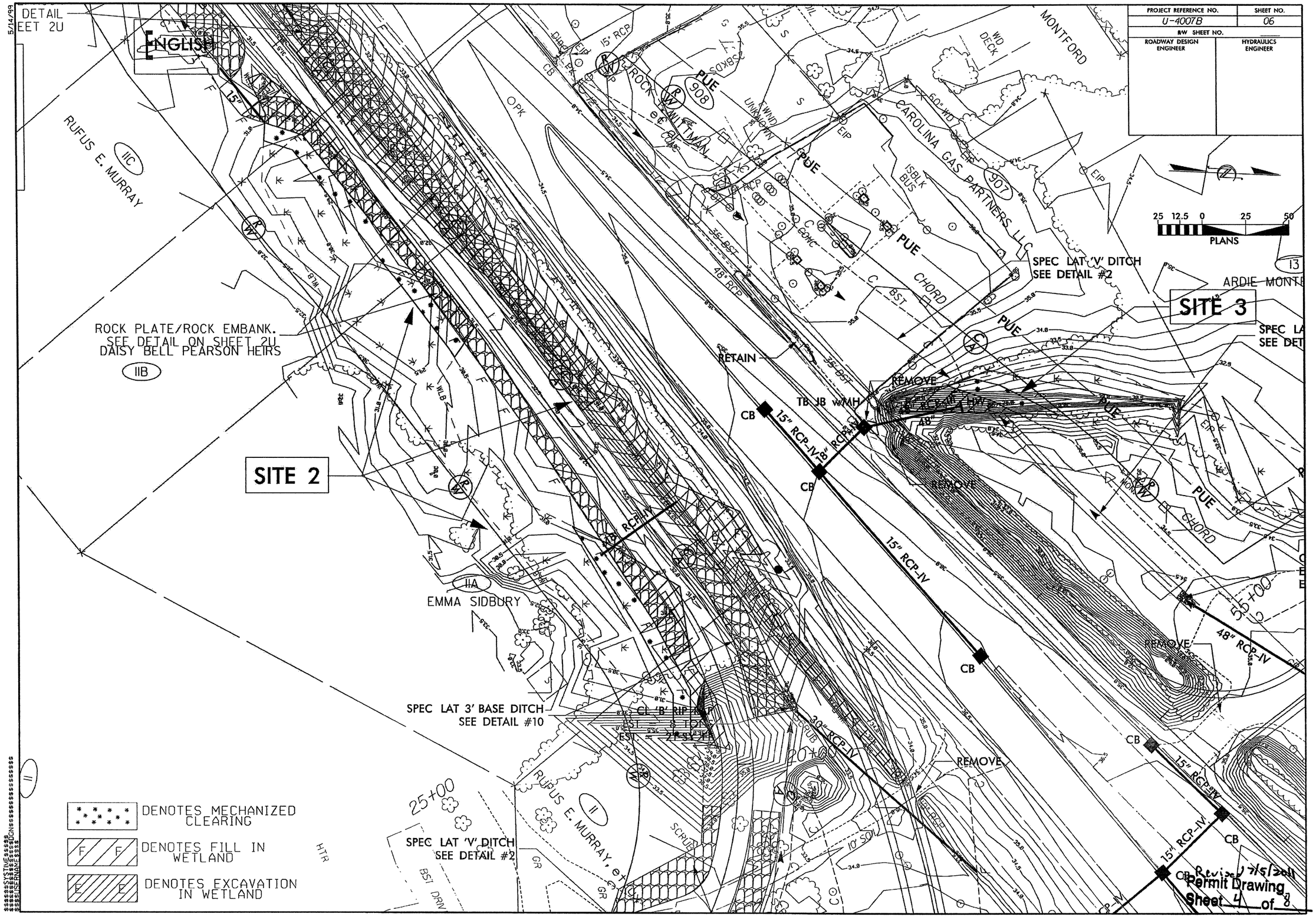

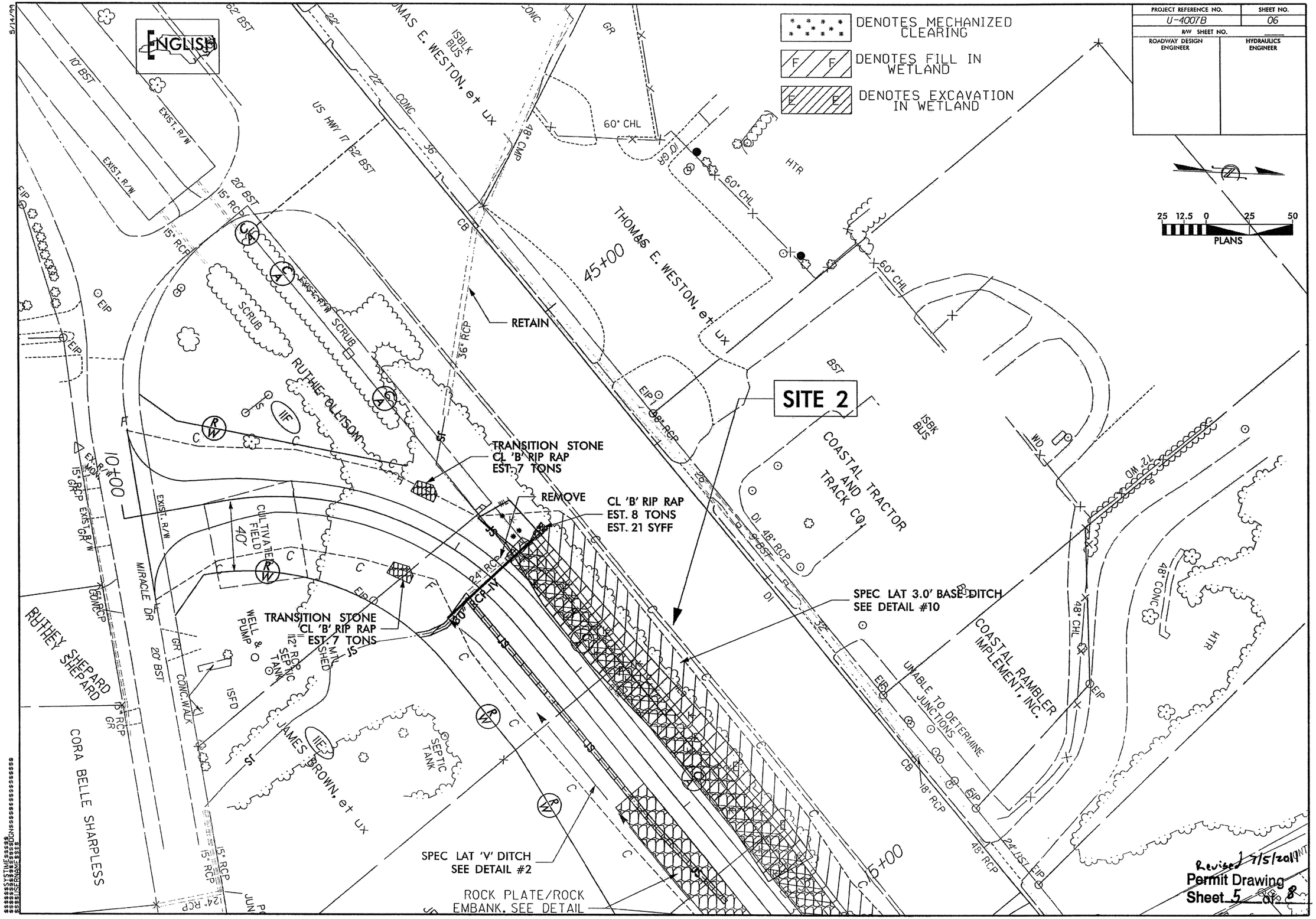

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UNABLE TO DETERMINE JUNCTIONS
45+00
10+00
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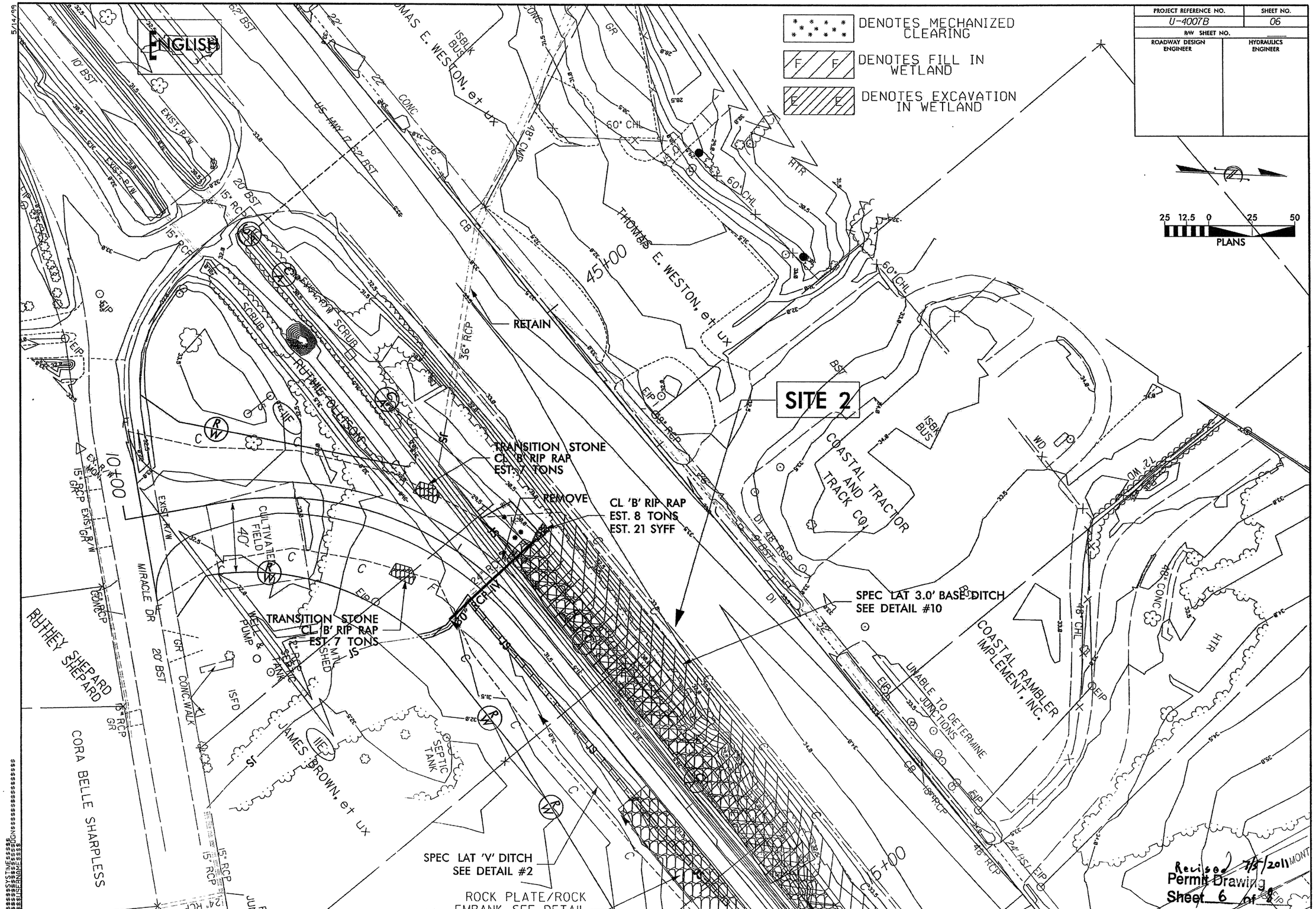
Revised 7/5/2011
Permit Drawing
Sheet 5 of 8



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SEPTIC TANK
WELL & PUMP
MTL SHED
US HWY 17
45+00
10+00
15+00
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Permit Drawing
Sheet 6 of 8

REVISIONS

CONSTRUCTION REVISION 7/5/11
"REVISED SERVICE ROAD ALIGNMENT AND ASSOCIATED DRAINAGE.

GRAPHIC SCALE
50' 25' 0 50' 100'
PLANS

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-4007B | 6 |

R/W SHEET NO.

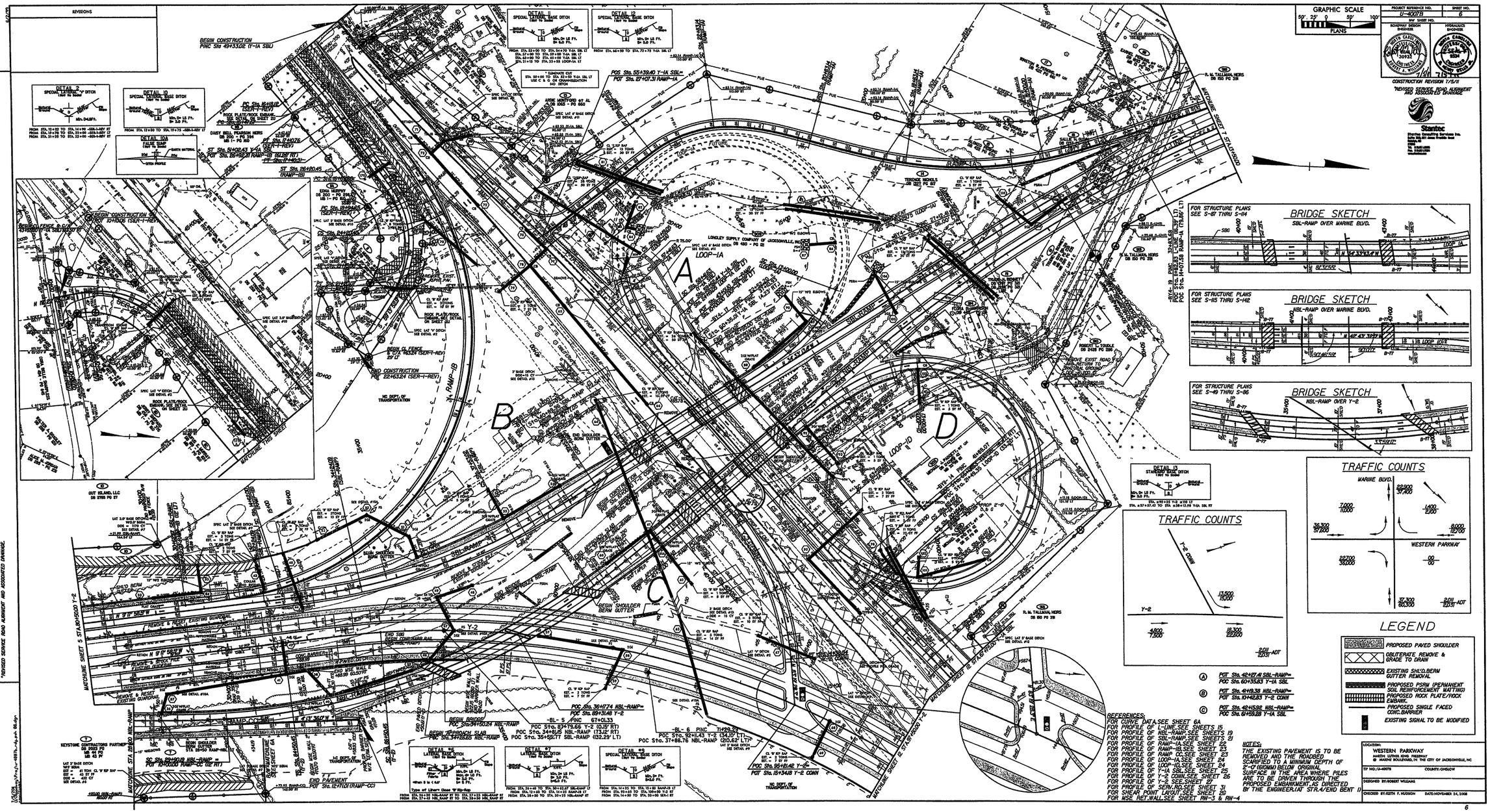
ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 20932 ENGINEER KEITH A. HUDSON

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 024 ENGINEER R. BRUCE ROBINSON

7/5/11

CONSTRUCTION REVISION 7/5/11
"REVISED SERVICE ROAD ALIGNMENT AND ASSOCIATED DRAINAGE.

Stantec
Stantec Consulting Services Inc.
Suite 100
Suite 100, 801 Jones Franklin Road
27606
NC FIRM:
NC FIRM:

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