



**US Army Corps  
of Engineers**

Vicksburg District

4155 Clay Street

Vicksburg, MS 39183-3435

[www.mvk.usace.army.mil](http://www.mvk.usace.army.mil)



# Public Notice

APPLICATION NO.:	RVH-MVK-2014-829
EVALUATOR:	Mr. Randy Holder
PHONE NO.:	(601) 631-5588
FAX NO.:	(601) 631-5459
E-MAIL:	<a href="mailto:Randy.V.Holder@usace.army.mil">Randy.V.Holder@usace.army.mil</a>
DATE:	January 09, 2015
EXPIRATION DATE:	January 29, 2015

Interested parties are hereby notified that the U.S. Army Corps of Engineers, Vicksburg District is considering an application for a Department of the Army permit for the work described herein. Comments should be forwarded to the Vicksburg District, Attention: CEMVK-OD-F, 4155 Clay Street, Vicksburg, MS 39183-3435.

Application also has been made to the Louisiana Department of Environmental Quality, Office of Environmental Services for a Water Quality Certification in accordance with La. R.S. 30.2074(A)(93), and Section 401 of the Clean Water Act (P.L. 95-217). Additional information is on file with the above office, and may be inspected at any time between 8:00 a.m. and 4:30 p.m. weekdays. Copies may be obtained upon payment of cost of copying. Comments concerning the application can be filed with the Office of Environmental Services within 20 days of this notice to the following address: Office of Environmental Services, P. O. Box 4313, Baton Rouge, LA 70821-4313.

**Law Requiring a Permit:** Section 404 of the Clean Water Act (33 U.S.C. 1344), which applies to discharges of dredged or fill material into waters of the United States.

**Name of Applicant:**

Mr. Gary Bates

Union Pacific Railroad

1400 Douglas Street

Omaha, Nebraska 68179

**Name of Agent:**

Ms. Angela Dalsis

CH2M HILL Engineers, Inc.

4350 West Cypress Street, Suite 600

Tampa, Florida 33607



**Location of Work:** Section 30, T17N-R4E, within the Ouachita River drainage basin, Ouachita Parish, Louisiana.

**Description of Work:** (See enclosed map and drawings.)

The following description of the proposed project and associated impacts are based upon information provided by the applicant.

The applicant is applying for a Department of the Army permit for the discharge of dredged and/or fill material associated with the construction of a double track railroad segment and associated ancillary features.

Union Pacific Railroad proposes to construct a double track railroad segment and associated ancillary features in a project area covering approximately 50.27 acres. The existing mainline would be converted to a siding track and a new mainline track would be constructed. Additional track work would be required to remove the track segments no longer be necessary. The project would include the replacement of track culverts at six locations, installation of five non-track culverts, construction of one bridge, construction of access roads, relocation of fencing to accommodate the proposed right-of-way acquisition, and ancillary features such as signal pads, signal houses, private crossings, and construction of a temporary track to allow for uninterrupted service.

Approximately 7,561 cubic yards of earthen fill, 5,537 cubic yards of ballast/subballast, and 49 cubic yards of rip rap would be used as a fill material. Approximately 2.31 acres of forested wetlands and 0.70 acre of emergent wetlands would be filled. Also, 0.80 acre of forested wetland and 0.45 acre of emergent wetlands would be temporary impacted. Additionally, 10,299 linear feet of Other Waters would be filled and 732 linear feet of Other Waters would be temporarily impacted. The applicant proposes to mitigate for all jurisdictional impacts by purchasing credits from an approved mitigation bank.

The placement of dredged and/or fill material in waters of the United States requires a Department of the Army Permit.

Upon reviewing this notice, you should write to this office to provide your opinion of the impacts this work will have on the natural and human environment, and address any mitigation you believe is necessary to offset these impacts. Other comments are welcome, but the above information will further our review of the applicant's plan, as proposed. Comments of a general nature are not as helpful as those specific to the impacts of the subject project.

**State Water Quality Permit:** The State Pollution Control Agency must certify that the described work will comply with the State's water quality standards and effluent limitations before a Corps permit is issued.



**Cultural Resources:** The Regulatory Archaeologist has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible, and other sources of information. The following is current knowledge of the presence or absence of historic properties and the effects of the proposed undertaking upon these properties: A historic properties investigation has been conducted within the permit area. No sites determined eligible for or listed on the National Register of Historic Places are within the permit area. Copies of this public notice have been sent to the State Historic Preservation Officer, Federally Recognized Tribes, and other interested parties for comment on potential effects to historic properties that could result from the proposed activity.

**Endangered Species:** The following threatened or endangered species are known to reside in Ouachita Parish: Red-cockaded woodpecker (E). This proposal is being coordinated with the U.S. Fish and Wildlife Service, and any comments regarding endangered species or their critical habitat will be addressed in our evaluation of the described work.

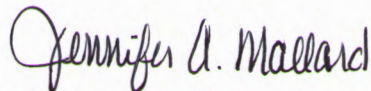
**Flood Plain:** In accordance with 44 CFR Part 60 (Flood Plain Management and Use), participating communities are required to review all proposed development to determine if a flood plain development permit is required. Flood plain administrators should review the proposed development described in this public notice and apprise this office of any flood plain development permit requirements.

**Evaluation Factors:** The decision whether or not to issue a permit will be based upon an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which may be expected to accrue from the proposal must be balanced against its expected adverse effects. All factors which may be relevant to the proposal will be considered; among these are conservation, economics, aesthetics, general environmental concerns, historic values, fish and wildlife values, flood damage prevention, land use classification, navigation, recreation, water supply, water quality, energy needs, safety, food requirements and, in general, the needs and welfare of the people. Evaluation of the proposed activity will include application of the guidelines published by the Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act.

**Public Involvement:** The purpose of this notice is to solicit comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties. These comments will be used to evaluate the impacts of this project. All comments will be considered and used to help determine whether to issue the permit, deny the permit, or issue the permit with conditions, and to help us determine the amount and type of mitigation necessary. This information will be used in our Environmental Assessment or Impact Statement. Comments are also used to determine the need for a public hearing.

**Opportunity for a Public Hearing:** Any person may make a written request for a public hearing to consider this permit application. This request must be submitted by the public notice expiration date and must clearly state why a hearing is necessary. Failure of any agency or individual to comment on this notice will be interpreted to mean that there is no objection to the proposed work. Please bring this announcement to the attention of anyone you know who might be interested in this matter.

**Notification of Final Permit Actions:** Each month, the final permit actions from the preceding month are published on the Vicksburg District Regulatory web page. To access this information, you may follow the link from the Regulatory web page, <http://www.mvk.usace.army.mil/Missions/Regulatory.aspx>, and click on ORM Permit Decisions under Program Links.



**Jennifer A. Mallard  
Chief, Evaluation Section  
Regulatory Branch**



3 November 2014

MVK-2014-829

Applicant:  
Union Pacific Railroad

Proposed Work:  
Commercial Construction

Location:  
32.42479, -92.102644  
Monroe South, LA Quadrangle  
Ouachita Parish, Louisiana

Map Background:  
NAIP Aerial Imagery (2013)

**Preliminary  
Jurisdictional Determination:**

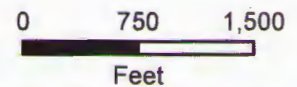
Prepared by:  
Jim Cole



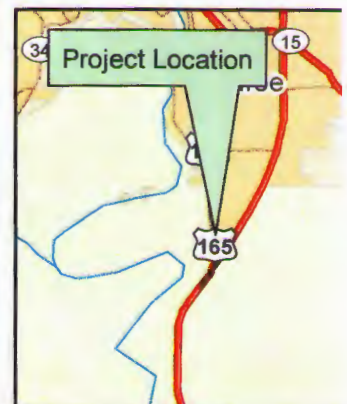
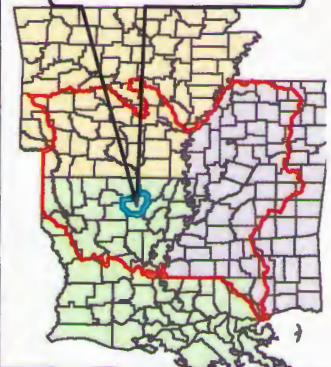
**US Army Corps  
of Engineers.**

**Regulatory Branch**

**Enforcement Section**



Ouachita Parish, LA

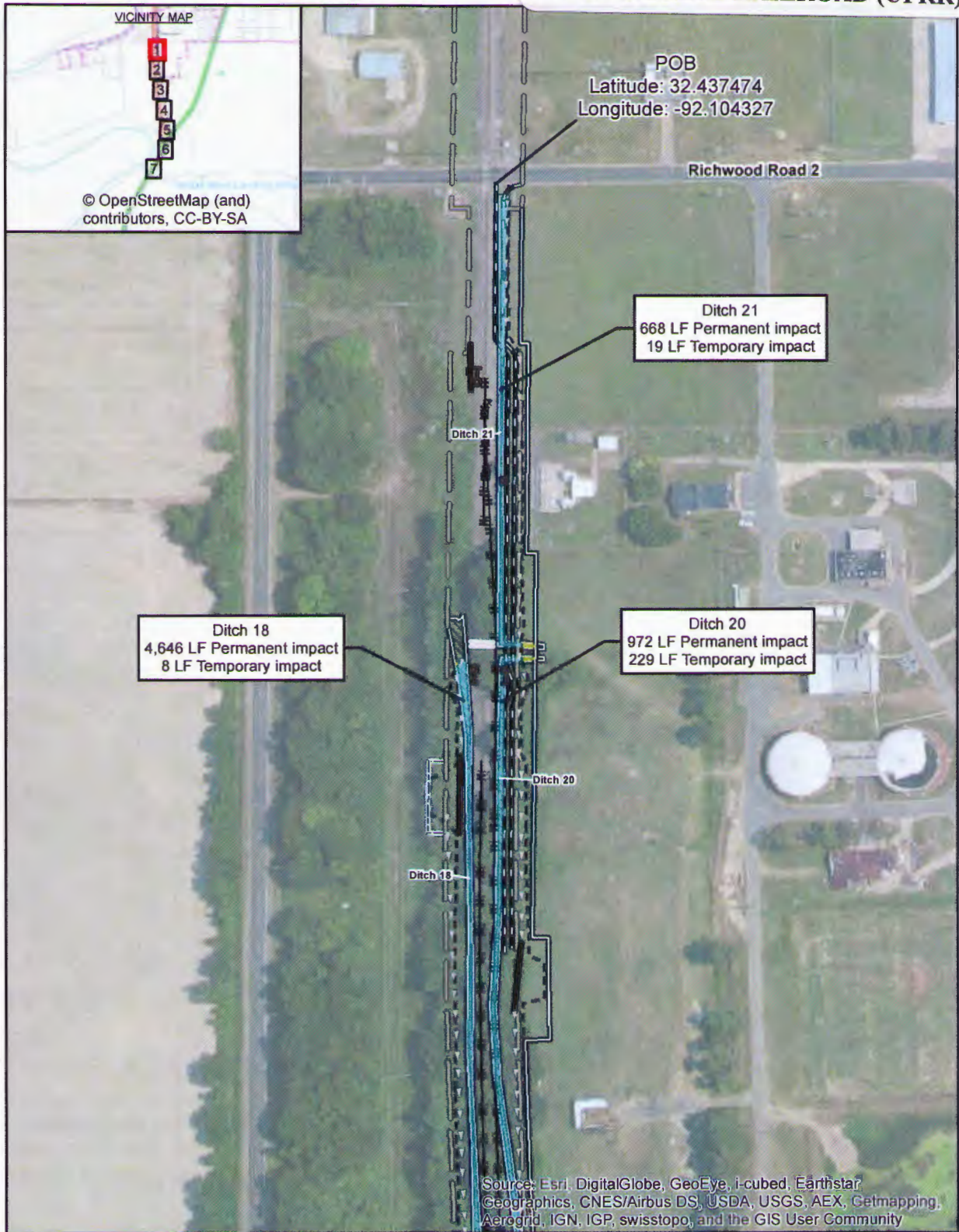


## Legend

-  Project Boundary (50.27 Acres)
-  Scrub Shrub Wetlands (2.81 Acres)
-  Other Waters of the US (13,837 Linear Feet)
-  Forested Wetlands (5.93 Acres)
-  Emergent Wetlands (4.25 Acres)



MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)



© OpenStreetMap (and) contributors, CC-BY-SA

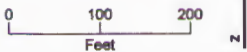
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Source: ESRI World Imagery

Date: 9/12/2014  
Sheet 1 of 7

**LEGEND**

Swale to be constructed	Road Improvement
Existing Culvert	Temporary Access
Existing Bridge	Temporary Construction Easement
Proposed Bridge	Signal Pad
Proposed Culvert	Potential Jurisdictional Wetlands
Proposed Track	Potential Jurisdictional Waters of the U.S.
Grading Limits	<b>Impact</b>
Existing Right of Way	Permanent
Proposed Right of Way	Temporary

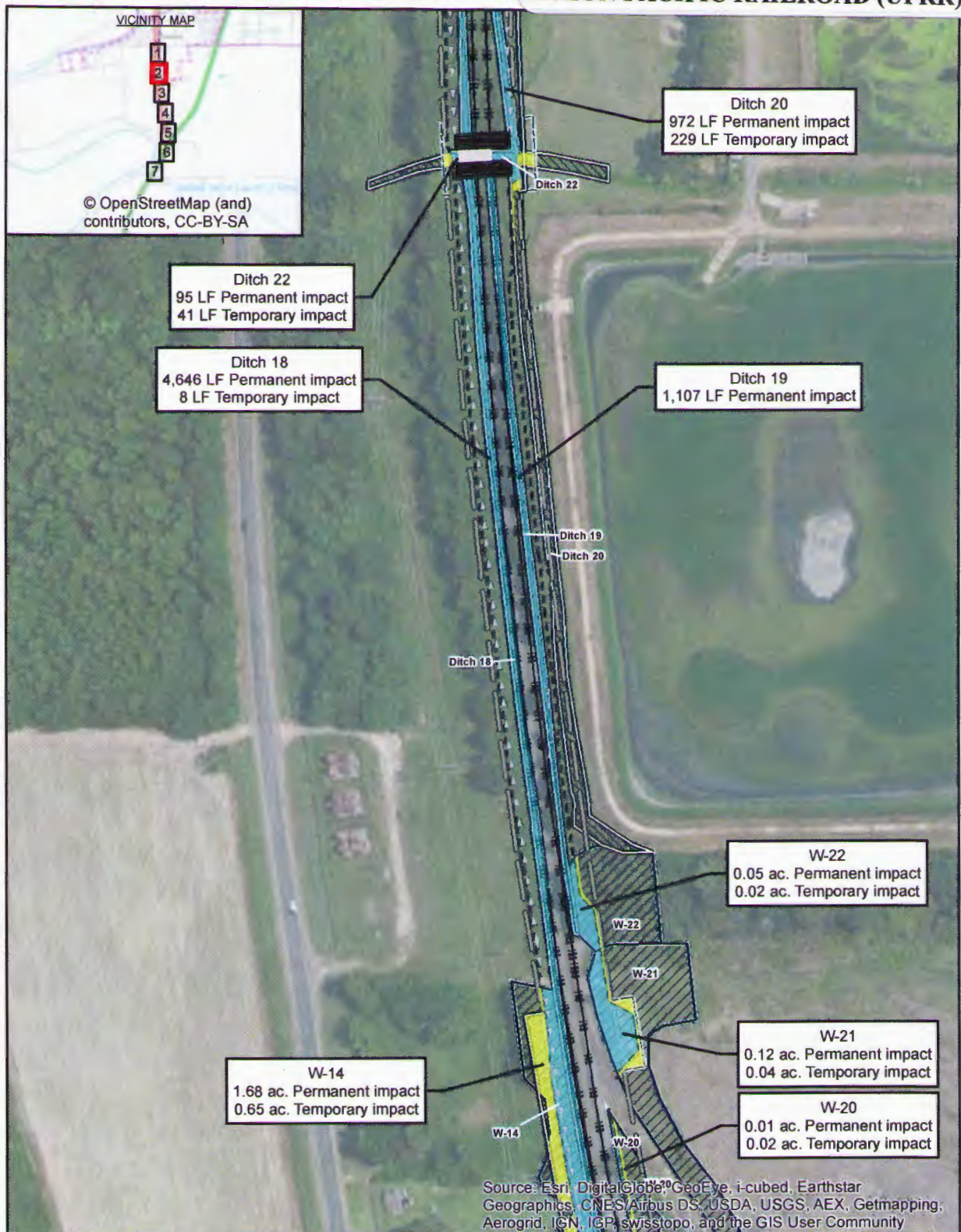


**FIGURE B-1**  
**Impact Area Map**  
UPRR ERCO Project  
Ouachita Parish, Louisiana





MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)



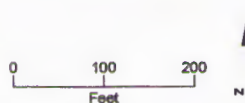
**LEGEND**

Swale to be constructed	Road Improvement
Existing Culvert	Temporary Access
Existing Bridge	Temporary Construction Easement
Proposed Bridge	Signal Pad
Proposed Culvert	Potential Jurisdictional Wetlands
Proposed Track	Potential Jurisdictional Waters of the U.S.
Grading Limits	Impact
Existing Right of Way	Permanent
Proposed Right of Way	Temporary

Source: ESRI World Imagery

Date: 9/12/2014

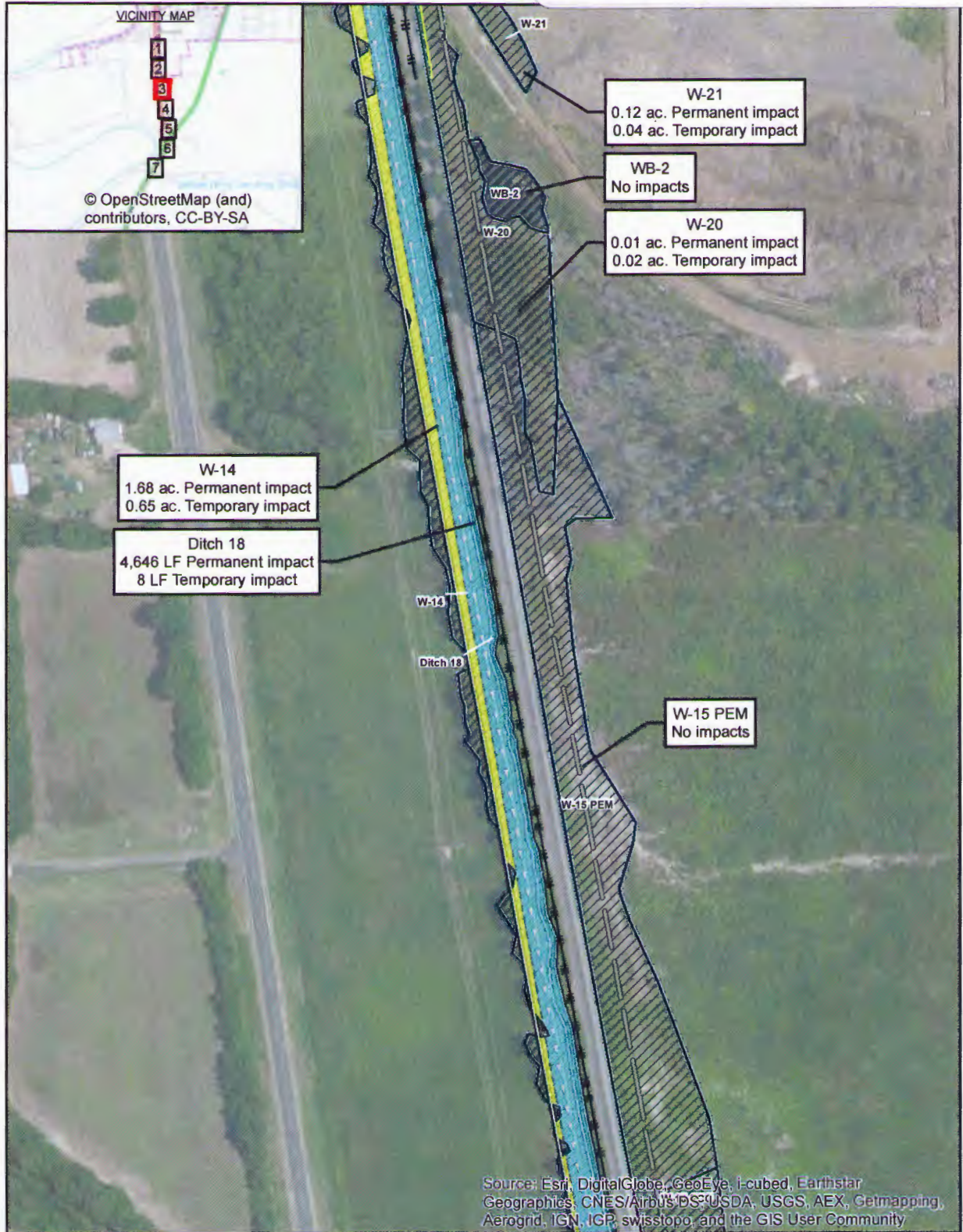
Sheet 2 of 7



**FIGURE B-1**  
**Impact Area Map**  
UPRR ERCO Project  
Ouachita Parish, Louisiana



MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)



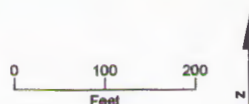
**LEGEND**

- |                         |   |
|-------------------------|---|
| Swale to be constructed | Road Improvement                            |
| Existing Culvert        | Temporary Access                            |
| Existing Bridge         | Temporary Construction Easement             |
| Proposed Bridge         | Signal Pad                                  |
| Proposed Culvert        | Potential Jurisdictional Wetlands           |
| Proposed Track          | Potential Jurisdictional Waters of the U.S. |
| Grading Limits          | <b>Impact</b>                               |
| Existing Right of Way   | Permanent                                   |
| Proposed Right of Way   | Temporary                                   |

Source: ESRI World Imagery

Date: 9/12/2014

Sheet 3 of 7

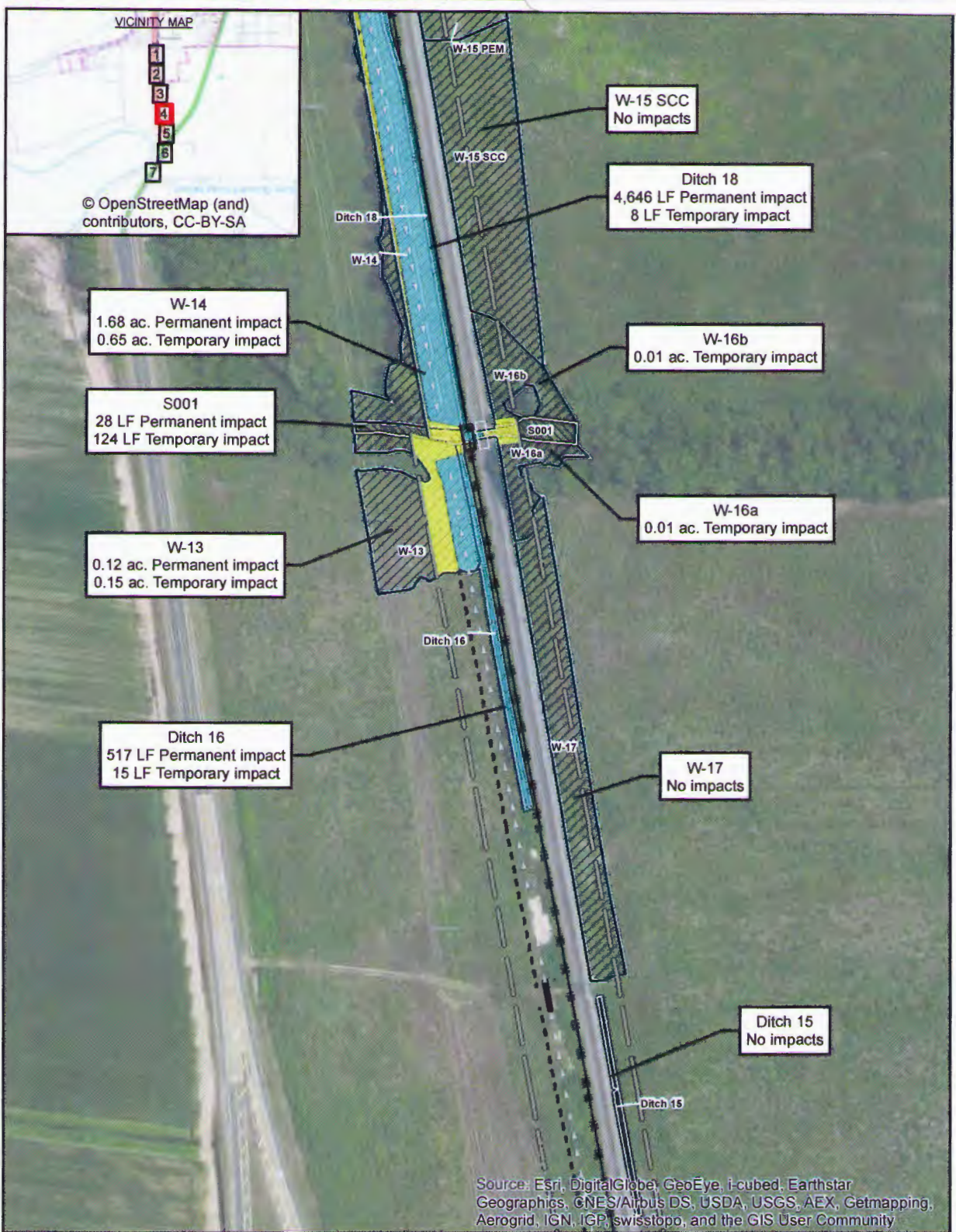


**FIGURE B-1**  
**Impact Area Map**  
UPRR ERCO Project  
Ouachita Parish, Louisiana





MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)



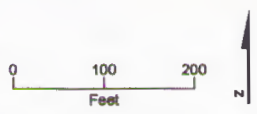
**LEGEND**

Swale to be constructed	Road Improvement
Existing Culvert	Temporary Access
Existing Bridge	Temporary Construction Easement
Proposed Bridge	Signal Pad
Proposed Culvert	Potential Jurisdictional Wetlands
Proposed Track	Potential Jurisdictional Waters of the U.S.
Grading Limits	Impact
Existing Right of Way	Permanent
Proposed Right of Way	Temporary

Source: ESRI World Imagery

Date: 9/12/2014

Sheet 4 of 7

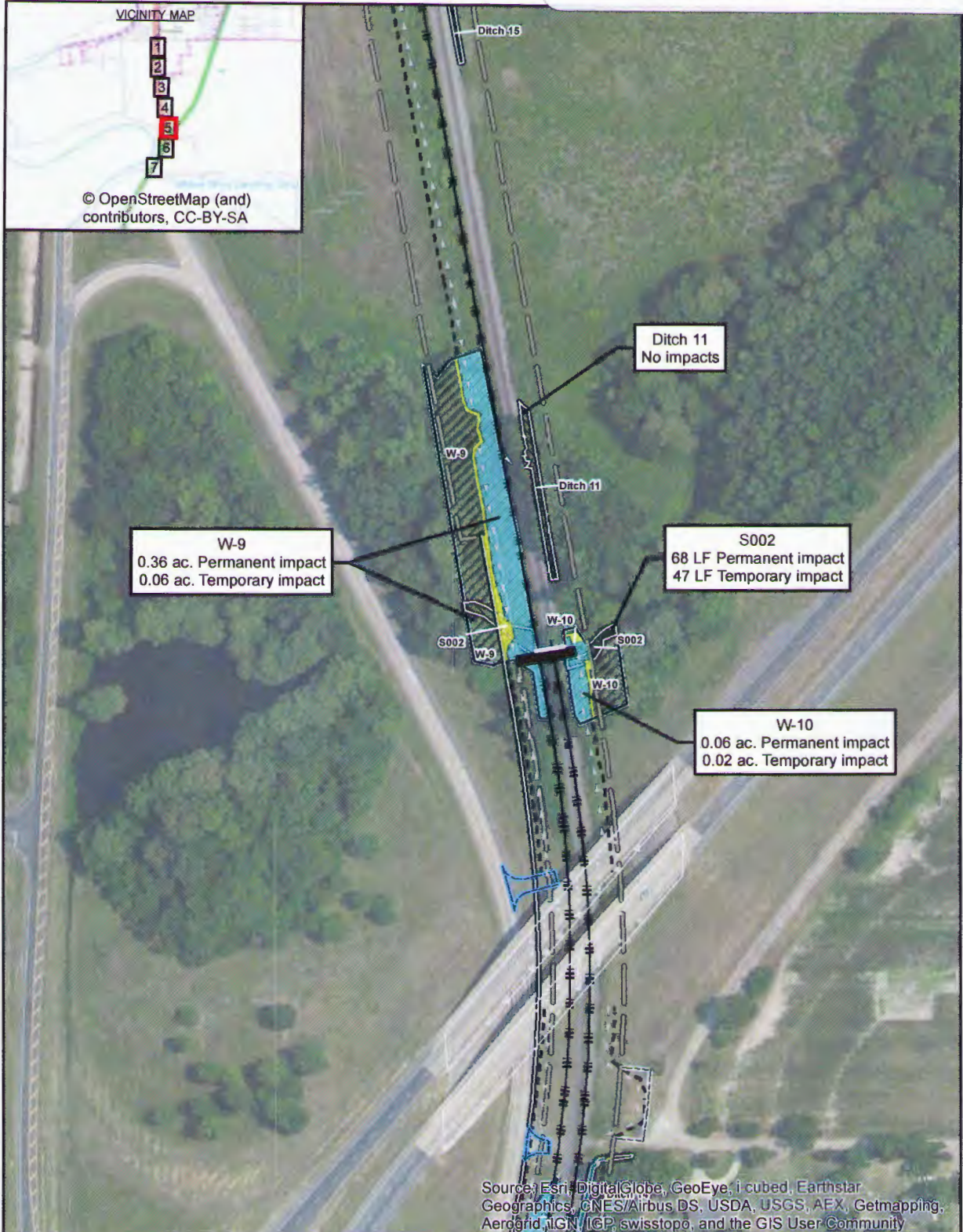


**FIGURE B-1**  
**Impact Area Map**  
UPRR ERCO Project  
Ouachita Parish, Louisiana





MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)



**LEGEND**

Swale to be constructed	Road Improvement
Existing Culvert	Temporary Access
Existing Bridge	Temporary Construction Easement
Proposed Bridge	Signal Pad
Proposed Culvert	Potential Jurisdictional Wetlands
Proposed Track	Potential Jurisdictional Waters of the U.S.
Grading Limits	<b>Impact</b>
Existing Right of Way	Permanent
Proposed Right of Way	Temporary

Source: ESRI, DigitalGlobe, GeoEye, i cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AFX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Source: ESRI World Imagery

Date: 9/12/2014

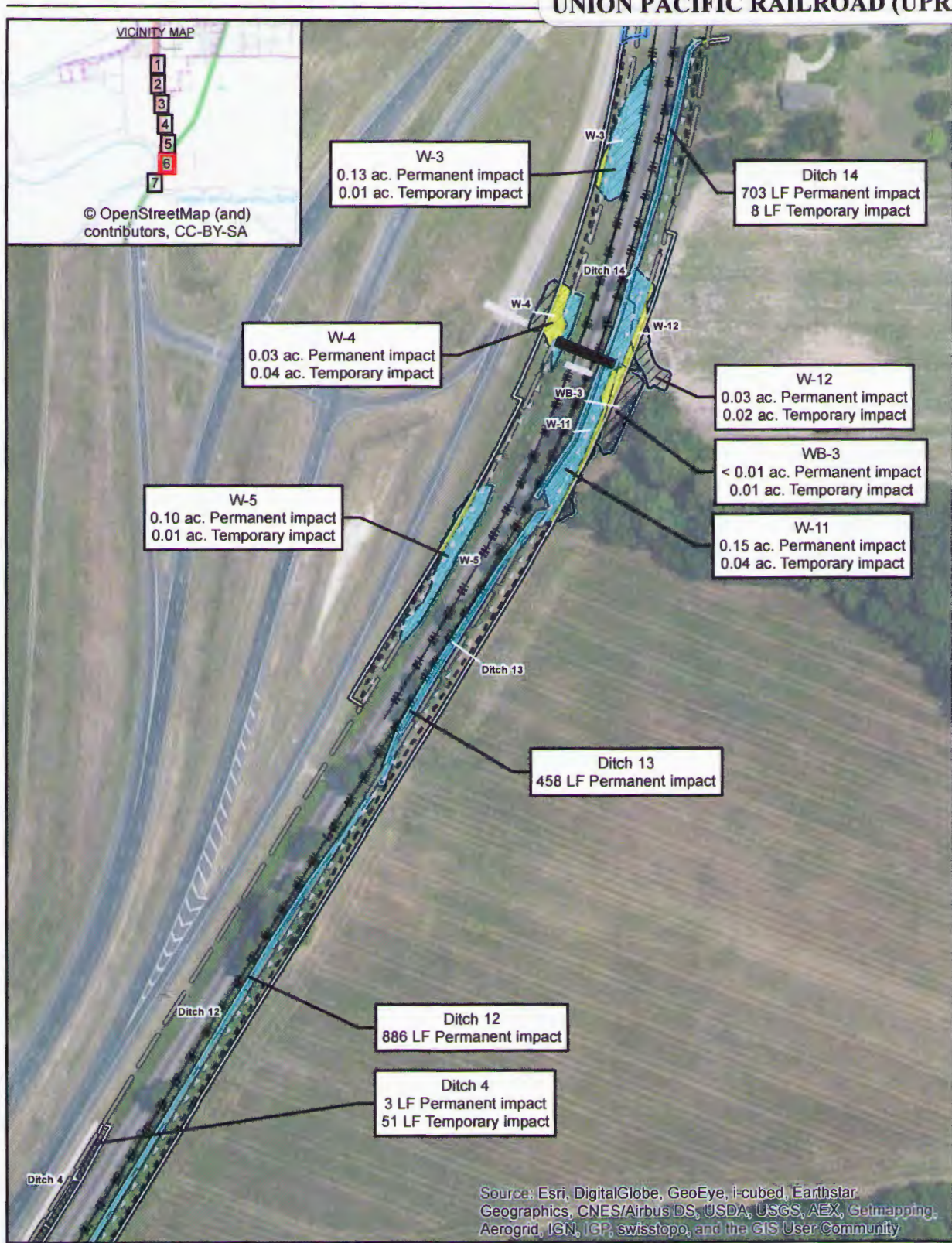
Sheet 5 of 7



**FIGURE B-1**  
**Impact Area Map**  
UPRR ERCO Project  
Ouachita Parish, Louisiana

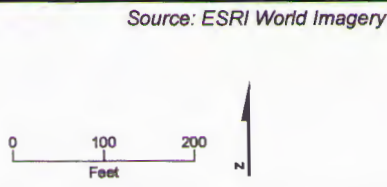


MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)



**LEGEND**

Swale to be constructed	Road Improvement
Existing Culvert	Temporary Access
Existing Bridge	Temporary Construction Easement
Proposed Bridge	Signal Pad
Proposed Culvert	Potential Jurisdictional Wetlands
Proposed Track	Potential Jurisdictional Waters of the U.S.
Grading Limits	Impact
Existing Right of Way	Permanent
Proposed Right of Way	Temporary

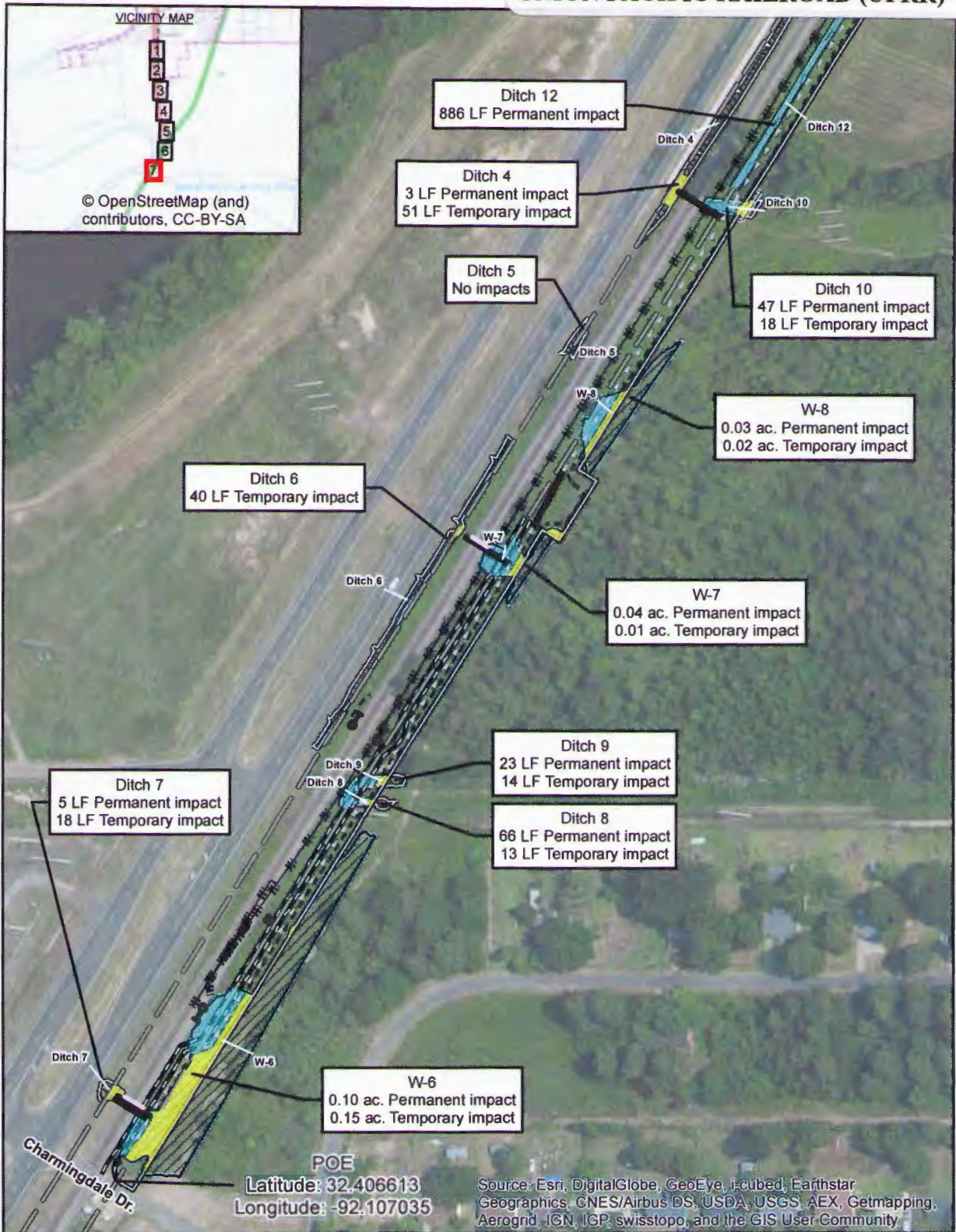


**FIGURE B-1**  
**Impact Area Map**  
UPRR ERCO Project  
Ouachita Parish, Louisiana



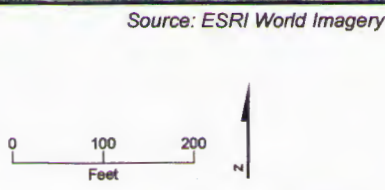


MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)



**LEGEND**

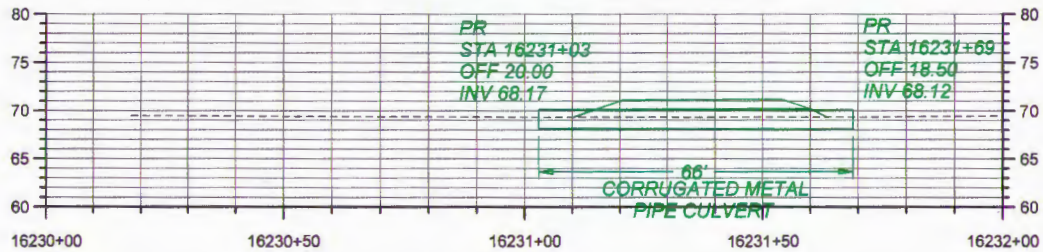
Swale to be constructed	Road Improvement
Existing Culvert	Temporary Access
Existing Bridge	Temporary Construction Easement
Proposed Bridge	Signal Pad
Proposed Culvert	Potential Jurisdictional Wetlands
Proposed Track	Potential Jurisdictional Waters of the U.S.
Grading Limits	<b>Impact</b>
Existing Right of Way	Permanent
Proposed Right of Way	Temporary



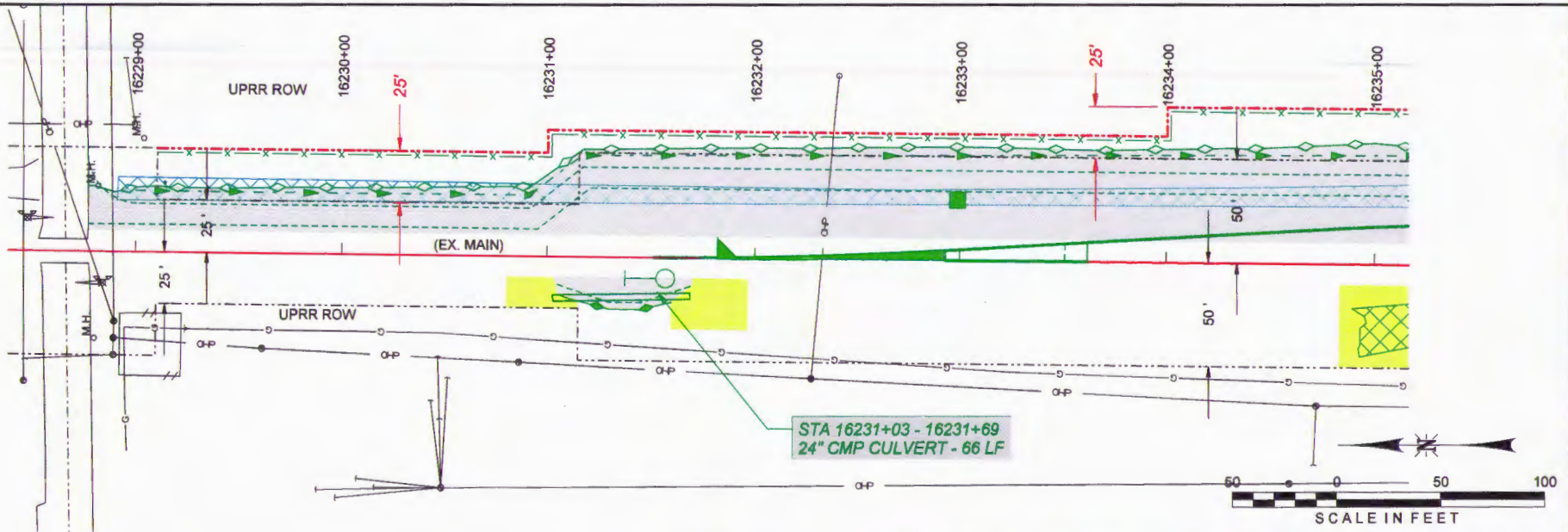
**FIGURE B-1**  
**Impact Area Map**  
UPRR ERCO Project  
Ouachita Parish, Louisiana







CULVERT PROFILE  
24" CMP PIPE - STA 16231+03 - 16231+69



- PRELIMINARY -  
NOT FOR CONSTRUCTION

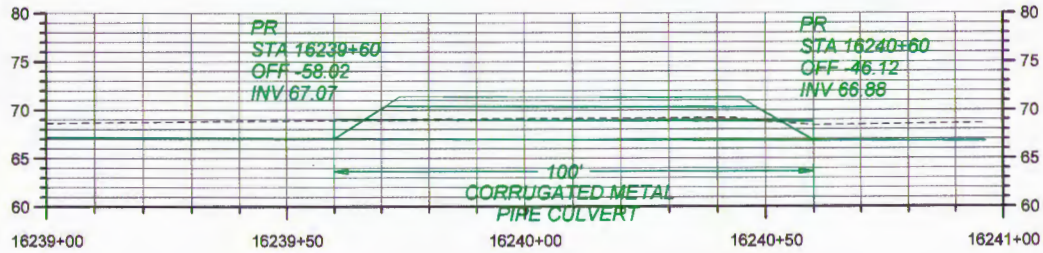
<p>engineers · scientists · planners</p> <p>Alfred Benesch &amp; Company 4633 Westington Road Kempville, VA 22544 252-853-8877 Job No. 20152.01</p>		DRAWN BY: HRD	<b>UNION PACIFIC RAILROAD</b> Office of Assistant Vice President Engineering Design/Construction
		CHECKED BY: MJK	
		DATE: 08-11-2014	
		SHEET NUMBER: C001 of 011	
LOCATION & DESCRIPTION: CONSTRUCT SIDING - ERCO, LA MONROE SUBDIVISION MP 505.56 - 508.08		SHEET TITLE: CULVERT PLAN AND PROFILE	

CEMVK-OD-FE RVH-MVK-2014-829

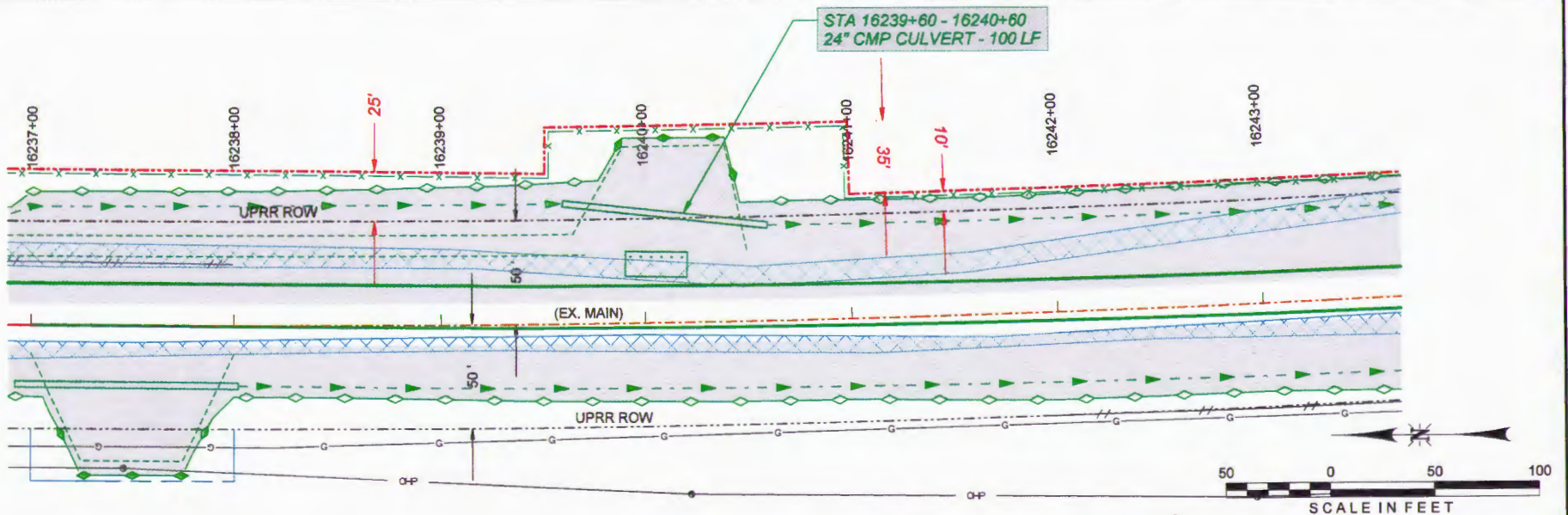
MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)

Color: tablar r:\MS\_V8\Workspaces\Projects\UPRR\UPRR.tbl  
 r:\MS\_V8\Workspaces\Projects\UPRR\printing\UPRR\_VB\_PenTable.tbl  
 D:\05\20152.01\Eng\_Docs\Sheets\C001.dgn  
 8/11/2014





**CULVERT PROFILE**  
24" CMP PIPE - STA 16239+60 - 16240+60



PRELIMINARY  
NOT FOR CONSTRUCTION



DRAWN BY: HRD	<b>UNION PACIFIC RAILROAD</b>	Office of Assistant Vice President Engineering Design/Construction
CHECKED BY: MJK		LOCATION & DESCRIPTION: CONSTRUCT SIDING - ERCO, LA MONROE SUBDIVISION MP 505.58 - 508.08
DATE: 08-11-2014	SHEET NUMBER: C002 of 011	
SHEET TITLE: CULVERT PLAN AND PROFILE		

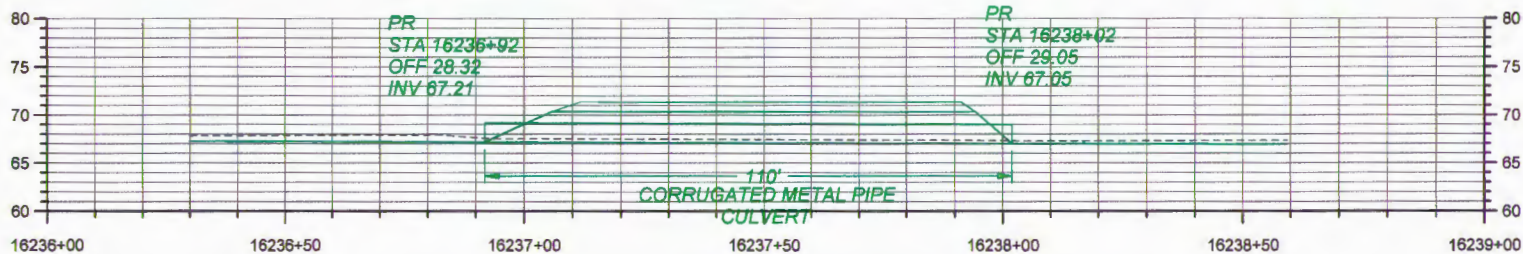
X:\201005\20152.0\Eng\_Docs\Sheets\C002.dgn

CEMVK-OD-FE RVH-MVK-2014-829

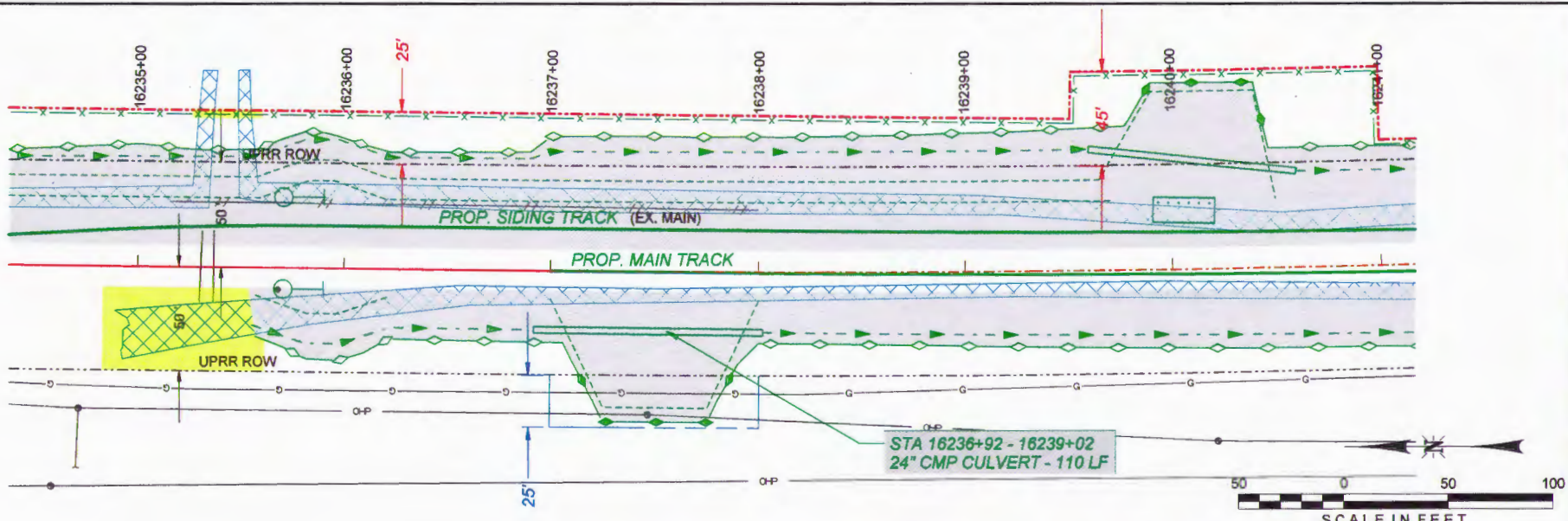
MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)

C:\p1\c1\ms\_vb\workspaces\p1\projects\UPRR\UPRR.dwg  
 er\ms\_vb\workspaces\p1\projects\UPRR\Printing\UPRR\_VB\_P\entable.tbl  
 X:\201005\20152.0\Eng\_Docs\Sheets\C002.dgn  
 8/1/2014





**CULVERT PROFILE**  
24" CMP PIPE - STA 16238+92 - 16238+02



- PRELIMINARY -  
NOT FOR CONSTRUCTION

 engineers · scientists · planners		DRAWN BY: HRD CHECKED BY: MJK	<b>UNION PACIFIC RAILROAD</b> Office of Assistant Vice President Engineering Design/Construction
		DATE: 08-11-2014 SHEET NUMBER: C003 of 011	LOCATION & DESCRIPTION: CONSTRUCT SIDING - ERCO, LA MONROE SUBDIVISION MP 505.56 - 508.08 SHEET TITLE: CULVERT PLAN AND PROFILE

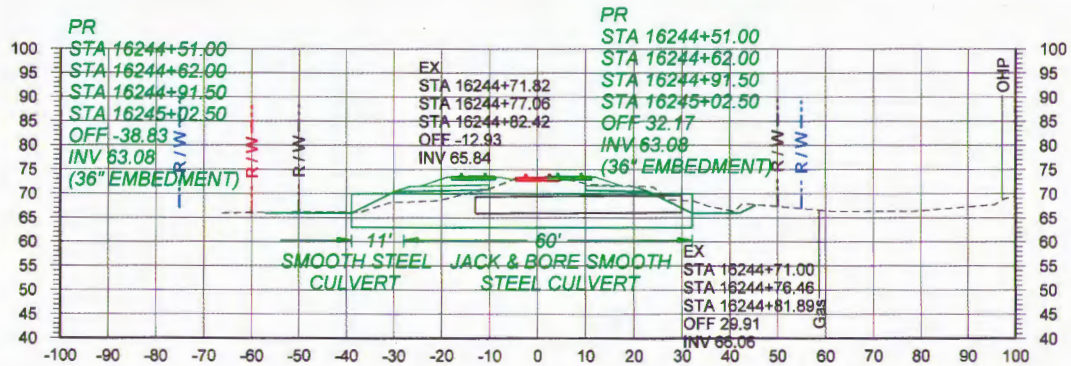
X:\201005\20152.01\Eng\_Docs\Sheets\C003.dgn

CEMVK-OD-FE RVH-MVK-2014-829

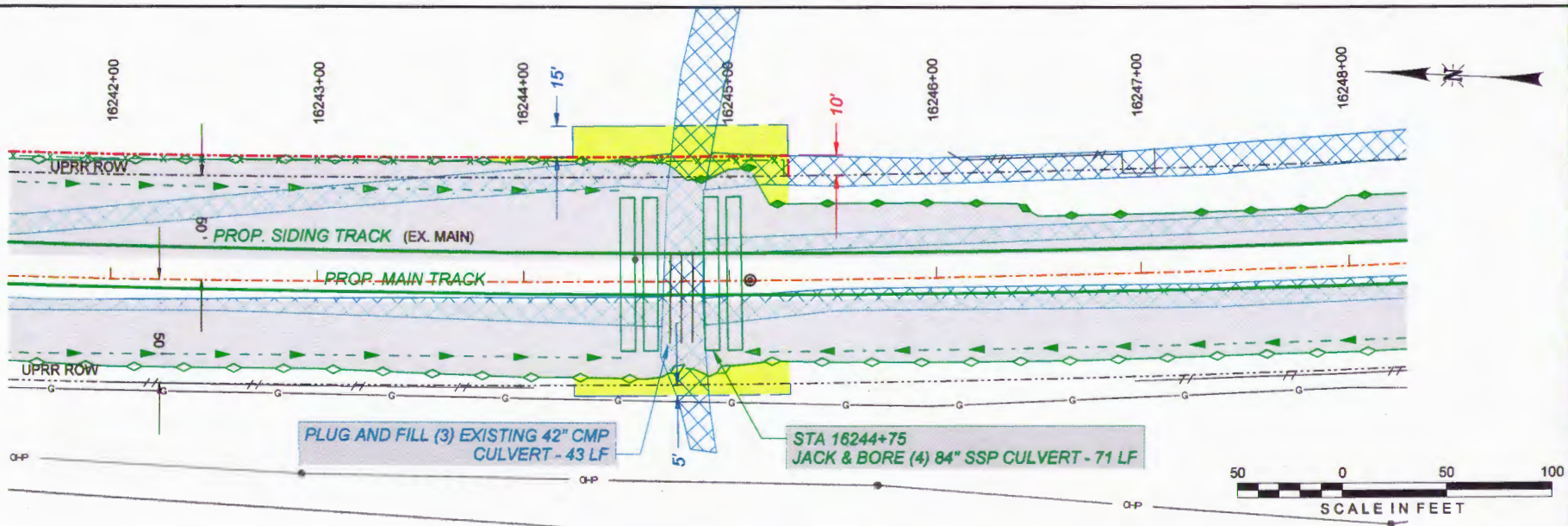
MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)

Color: \\lar1\MS\_VB\Workspaces\Projects\UPRR\UPRR.tbl  
 r:\MS\_VB\Workspaces\Projects\UPRR\Printing\UPRR\_VB\_Pentable.tbl  
 Date: 08/11/2014 8:11/2014





CULVERT PROFILE  
 (4) 84" SSP PIPE - STA 16244+75



- PRELIMINARY -  
 NOT FOR CONSTRUCTION

 engineers - scientists - planners Alfred Benesch & Company 4633 Washington Road Kansasville, WI 53144 262-653-0077 ext. No. 20152.01		DRAWN BY: HRD	<b>UNION PACIFIC RAILROAD</b> Office of Assistant Vice President Engineering Design/Construction
		CHECKED BY: MJK	
		DATE: 08-15-2014	SHEET TITLE: CULVERT PLAN AND PROFILE
		SHEET NUMBER: C004 of 011	

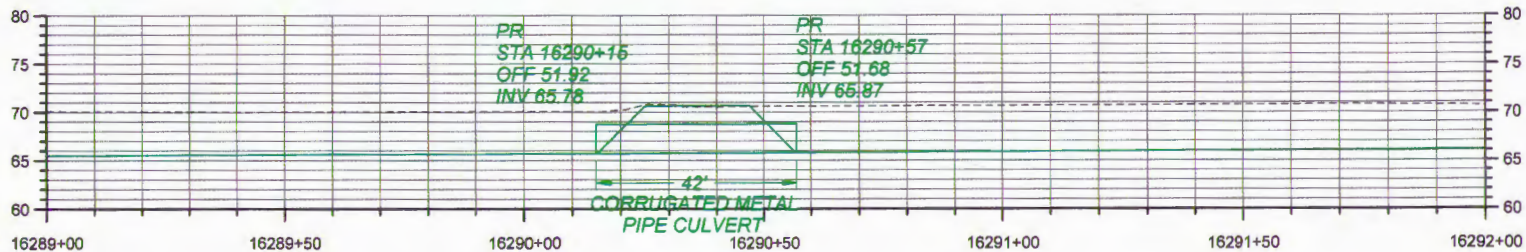
CEMVK-OD-FE RVH-MVK-2014-829

MR. GARY BATES  
 UNION PACIFIC RAILROAD (UPRR)

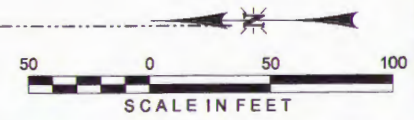
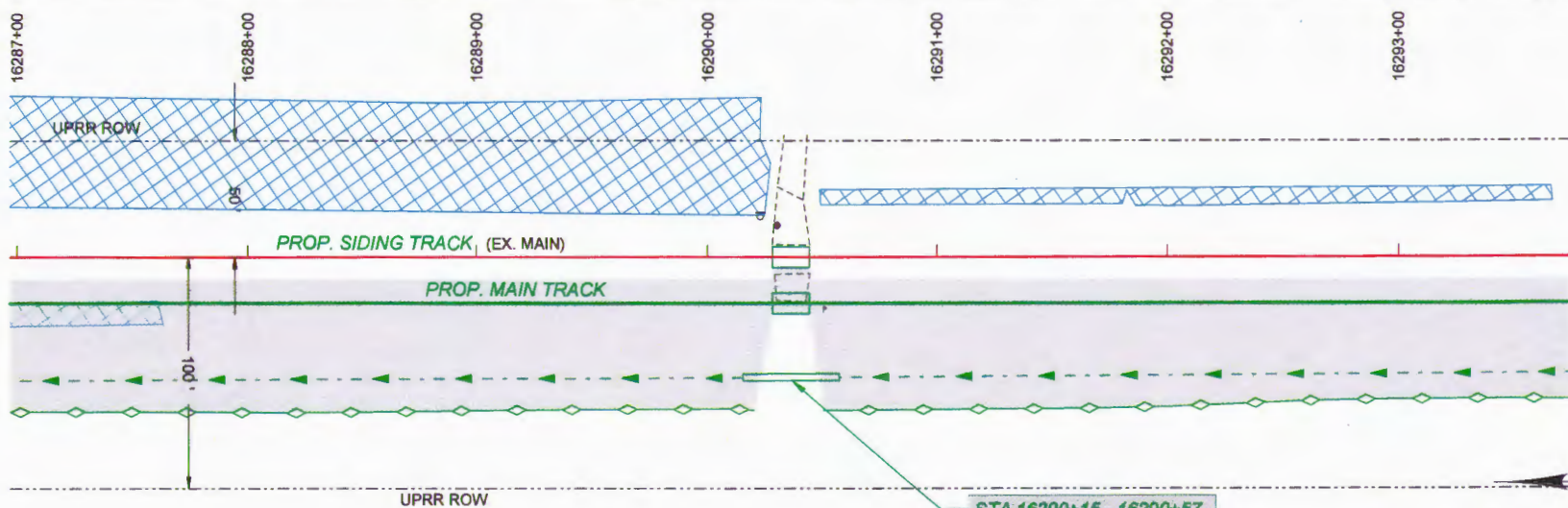
X:\201005\20152.01\Eng\_Doc\Sheets\C004.dgn

Color: tablar... r:\ms... v8\workspace\Projects\UPRR\UPRR.tbl  
 r:\ms... v8\workspace\Projects\UPRR\Printing\UPRR\_V8\_PenTable.tbl  
 D:\7... 20152.01\Eng\_Docs\Sheets\C004.dgn  
 8/15/2014





**CULVERT PROFILE**  
36" CMP PIPE - STA 16290+15 - 16290+57



- PRELIMINARY -  
NOT FOR CONSTRUCTION

**benesch**  
engineers · scientists · planners  
Alfred Benesch & Company  
4633 Washington Road  
Minnetonka, MN 55344  
262-653-6977, Job No. 20152.01



DRAWN BY: HRD	<b>UNION PACIFIC RAILROAD</b> Office of Assistant Vice President Engineering Design/Construction
CHECKED BY: MKR	
DATE: 05-11-2014	LOCATION & DESCRIPTION: CONSTRUCT SIDING - ERCC, LA MONROE SUBDIVISION MP 505.56 - 508.08
SHEET NUMBER: C005 of 011	SHEET TITLE: CULVERT PLAN AND PROFILE

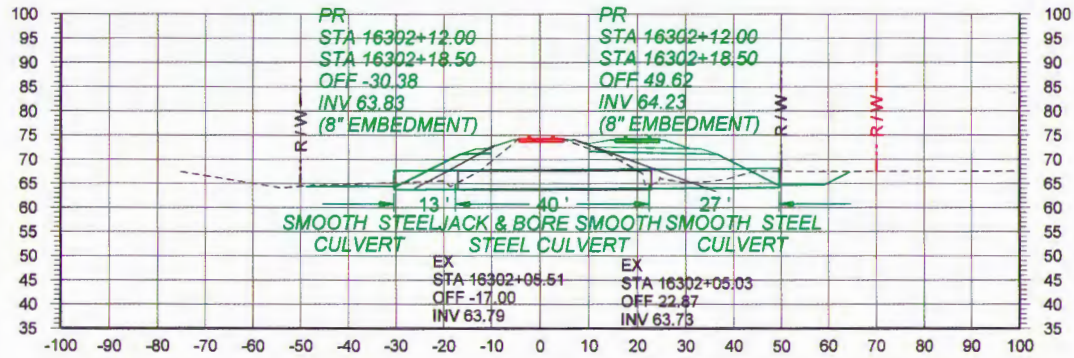
Color: \\ms.vb\workspaces\Projects\UPRR\UPRR.tbl  
 c:\ms.vb\workspaces\Projects\UPRR\Printing\UPRR\_VB\_Pentable.tbl  
 X:\201005\20152.01\Eng\_Doc\Sheets\C005.dgn  
 8/1/2014

CEMVK-OD-FE RVH-MVK-2014-829

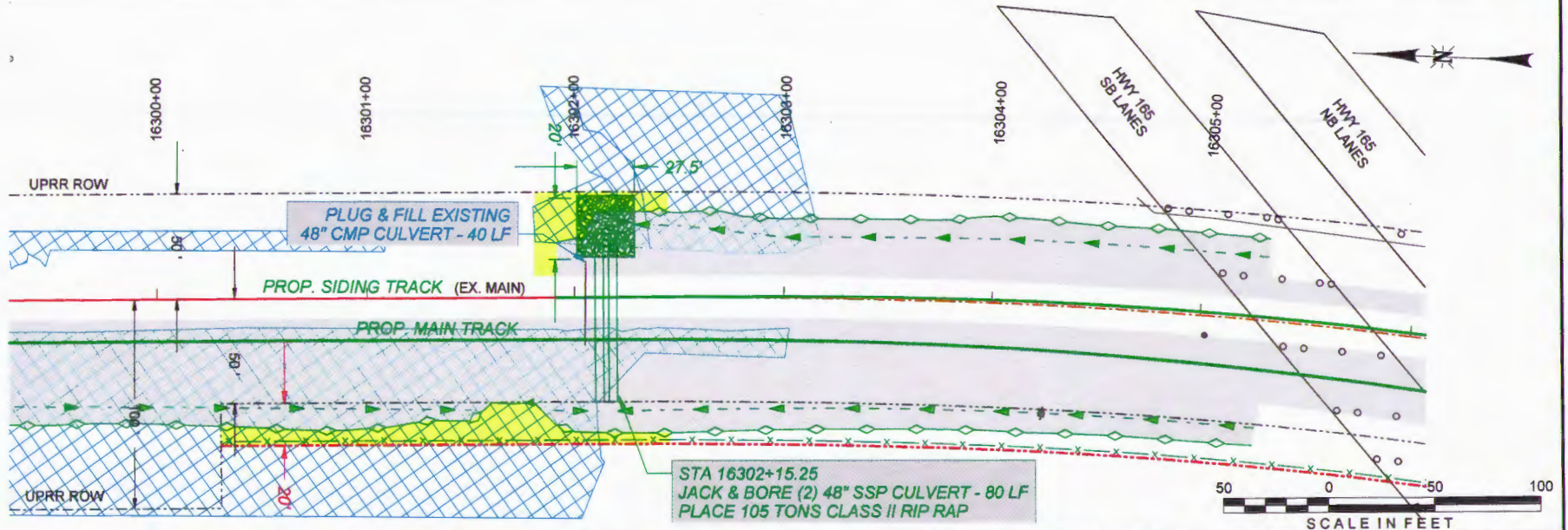
MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)

X:\201005\20152.01\Eng\_Doc\Sheets\C005.dgn





CULVERT PROFILE  
(2) 48" SSP PIPE - STA 16302+15.25



- PRELIMINARY -  
NOT FOR CONSTRUCTION

<p>engineers • scientists • planners</p> <p>Alfred Benesch &amp; Company 4633 Washington Road Kenosha, WI 53144 262-453-6877 • www.ben.com</p>		DRAWN BY: HRD CHECKED BY: MJK DATE: 08-11-2014 SHEET NUMBER: C006 of 011	<b>UNION PACIFIC RAILROAD</b> Office of Assistant Vice President Engineering Design/Construction
		LOCATION & DESCRIPTION: CONSTRUCT SIDING - ERCO, LA MONROE SUBDIVISION MP 505.56 - 508.08	

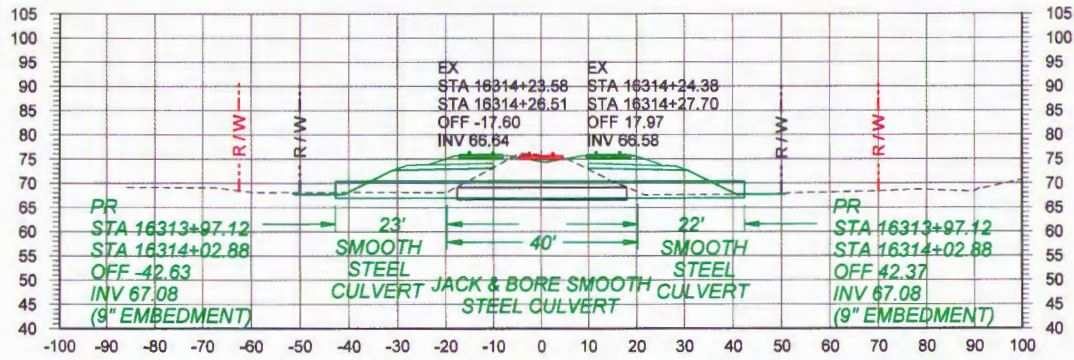
X:\201005\2052.0\Eng\_Docs\Sheets\C006.dgn

CEMVK-OD-FE RVH-MVK-2014-829

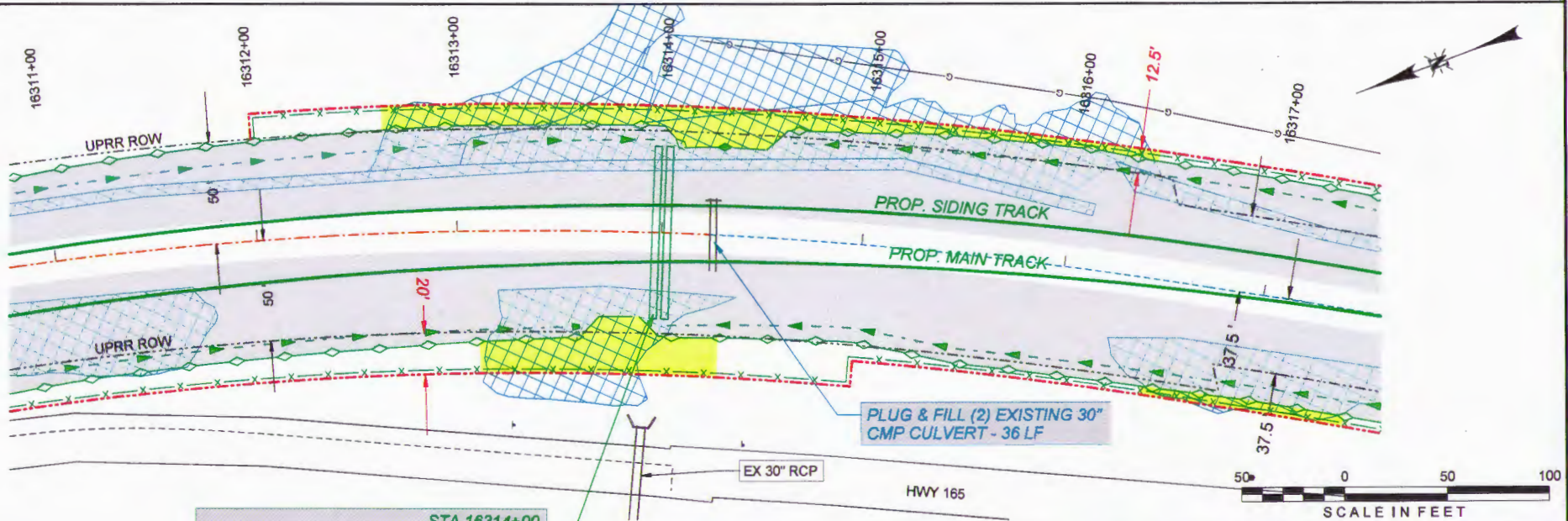
MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)

Color: tabler.r\dms\_vb\WorkSpace\Projects\UPRR\UPRR.tbl  
 r:\ms\_vb\WorkSpace\Projects\UPRR\Printing\UPRR\_VB\_Pentable.tbl  
 R:\201005\2052.0\Eng\_Docs\Sheets\C006.dgn  
 8/11/2014





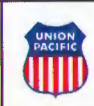
**CULVERT PROFILE**  
(2) 42" SSP PIPE - STA 16314+00



STA 16314+00  
JACK & BORE (2) 42" SSP CULVERT - 85 LF

PRELIMINARY  
NOT FOR CONSTRUCTION

**benesch**  
engineers - scientists - planners  
Allied Benesch & Company  
4633 Washington Road  
Kenosha, WI 53144  
262-653-8877 Job No. 20152.01



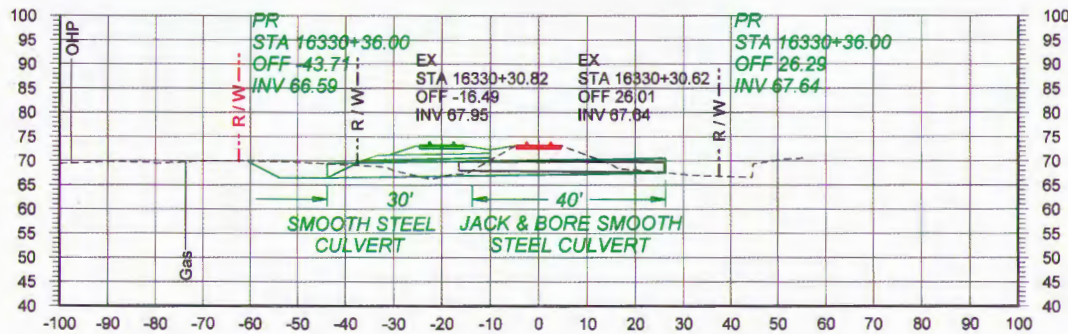
DRAWN BY: HRO	<b>UNION PACIFIC RAILROAD</b> Office of Assistant Vice President Engineering Design/Construction LOCATION & DESCRIPTION: CONSTRUCT SIDING - ERCO, LA MONROE SUBDIVISION MP 505.56 - 506.08 SHEET TITLE: CULVERT PLAN AND PROFILE
CHECKED BY: MAK	
DATE: 08-11-2014	
SHEET NUMBER: C007 of 011	

Color: tabular\\ms\18\WorkSpace\Projects\UPRR\UPRR.tbl  
 \\ms\18\WorkSpace\Projects\UPRR\UPRR.tbl  
 0:\201005\20152.01\Eng\_Docs\Sheets\C007.dgn  
 8/11/2014

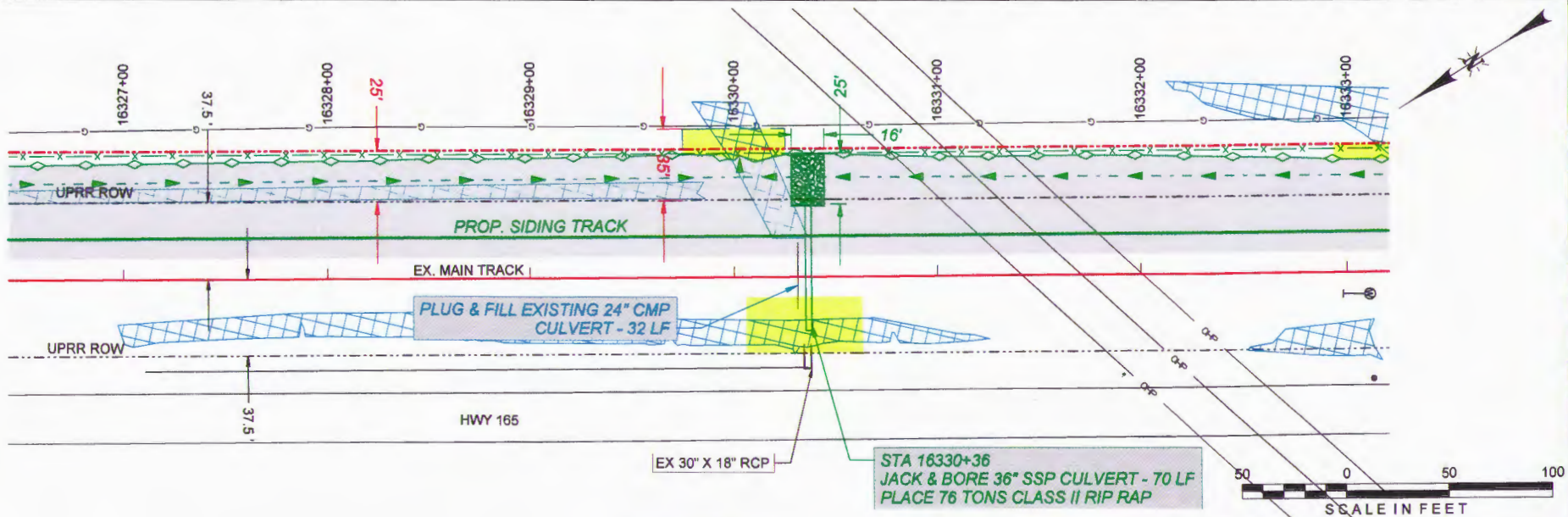
CEMVK-OD-FE RVH-MVK-2014-829

MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)





CULVERT PROFILE  
(1) 36" SSP PIPE - STA 16330+36



- PRELIMINARY -  
NOT FOR CONSTRUCTION



DRAWN BY: HRD CHECKED BY: MJK DATE: 08-11-2014 SHEET NUMBER: C008 of 011	<b>UNION PACIFIC RAILROAD</b> Office of Assistant Vice President Engineering Design/Construction LOCATION & DESCRIPTION: CONSTRUCT SIDING - ERCO, LA MONROE SUBDIVISION MP 505.56 - 508.08 SHEET TITLE: CULVERT PLAN AND PROFILE
---	---

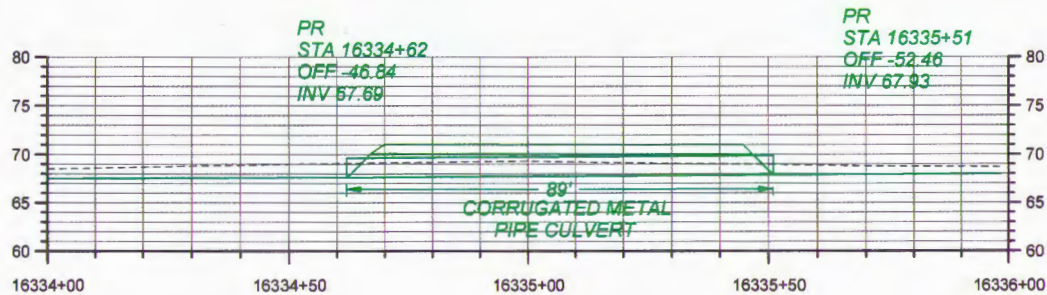
X:\201005\20152.01\Eng\_Docx\Sheets\C008.dgn

CEMVK-OD-FE RVH-MVK-2014-829

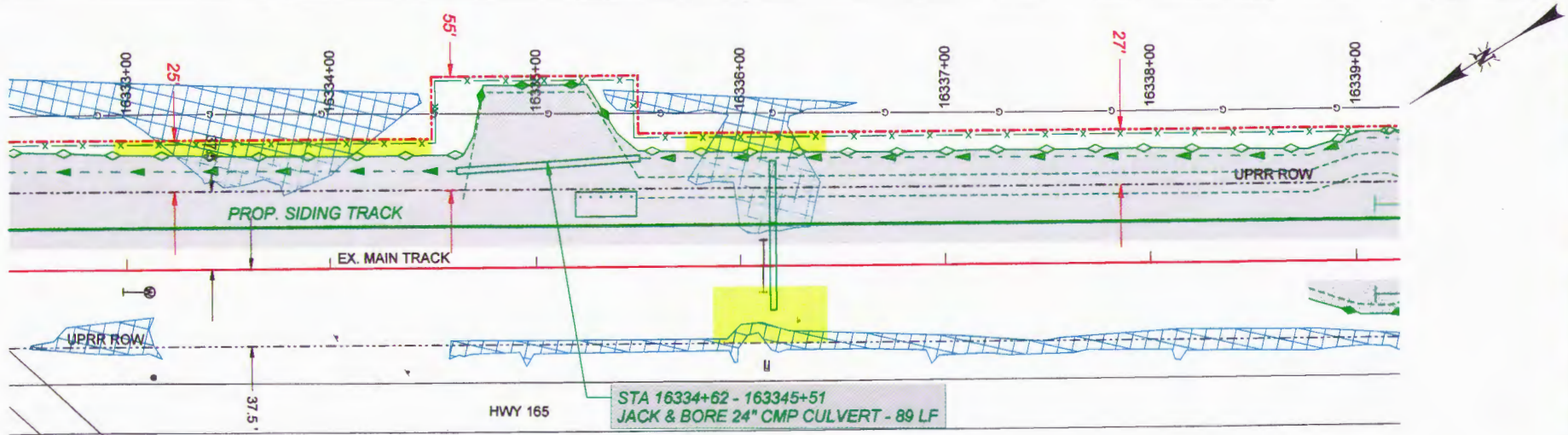
MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)

Color: tablar1\MS\_VB\Workspaces\Projects\UPRR\UPRR.tbl  
r:\MS\_VB\Workspaces\Projects\UPRR\Printing\UPRR\_VB\_Pentable.tbl  
X:\201005\20152.01\Eng\_Docx\Sheets\C008.dgn  
08/11/2014





**CULVERT PROFILE**  
 (1) 24" CMP PIPE - STA 16334+62 - 16335+51



PRELIMINARY  
 NOT FOR CONSTRUCTION

**benesch**  
 engineers - scientists - planners  
 Alfred Benesch & Company  
 4633 Washington Road  
 Monroeville, PA 15146  
 262-652-6677, Job No. 20152.01



DRAWN BY: HRD	<b>UNION PACIFIC RAILROAD</b>	Office of Assistant Vice President Engineering Design/Construction
CHECKED BY: MJK		LOCATION & DESCRIPTION: CONSTRUCT SIDING - ERCO, LA MONROE SUBDIVISION MP 505.56 - 508.08
DATE: 08-11-2014	SHEET NUMBER: C009 of 011	SHEET TITLE: CULVERT PLAN AND PROFILE

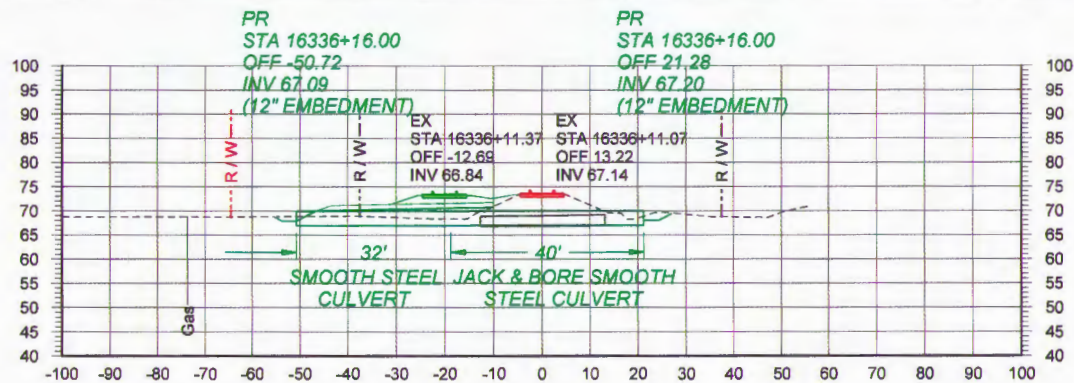
X:\201005\20152.01\Eng\_Docs\Sheets\C009.dgn

CEMVK-OD-FE RVH-MVK-2014-829

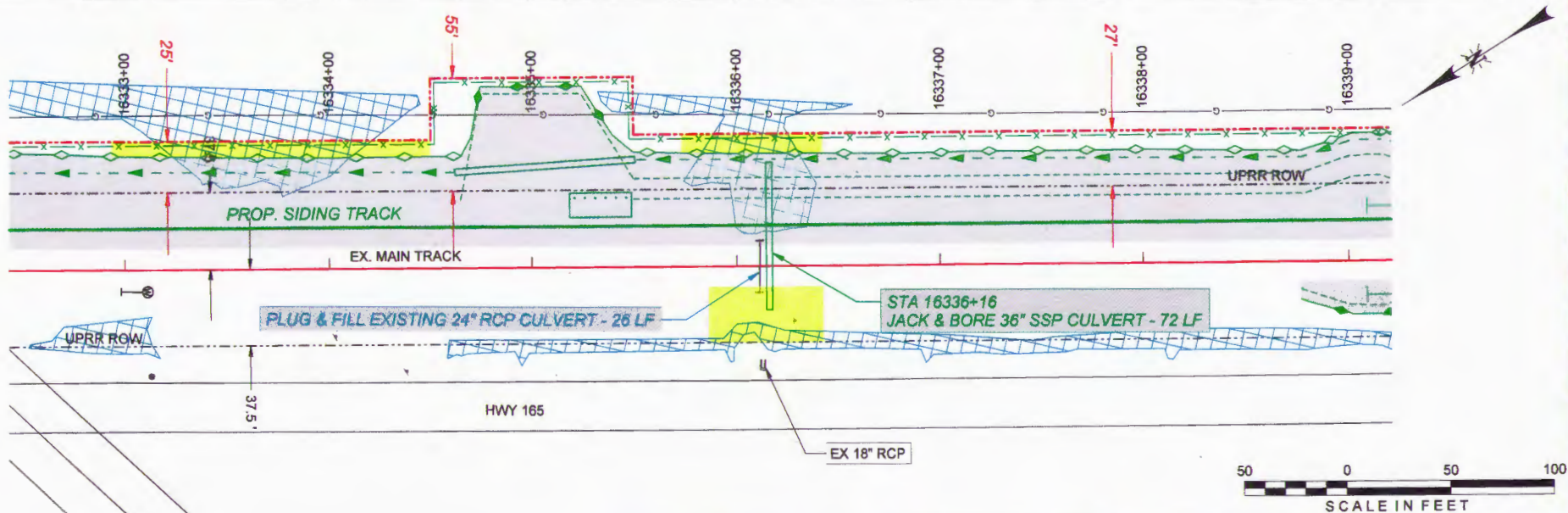
MR. GARY BATES  
 UNION PACIFIC RAILROAD (UPRR)

Color: table: r:\MS\_VB\Workspaces\Projects\UPRR\UPRR.tbl  
 r:\MS\_VB\Workspaces\Projects\UPRR\UPRR.tbl  
 r:\201005\20152.01\Eng\_Docs\Sheets\C009.dgn  
 8/11/2014





CULVERT PROFILE  
(1) 36" SSP PIPE - STA 16336+16



- PRELIMINARY -  
NOT FOR CONSTRUCTION



DRAWN BY: HRD  
CHECKED BY: MJK  
DATE: 08-11-2014  
SHEET NUMBER: C010 of 011

**UNION PACIFIC RAILROAD** Office of Assistant Vice President Engineering Design/Construction

LOCATION & DESCRIPTION:  
CONSTRUCT SIDING - ERCO, LA  
MONROE SUBDIVISION MP 505.56 - 508.08

SHEET TITLE:  
CULVERT PLAN AND PROFILE

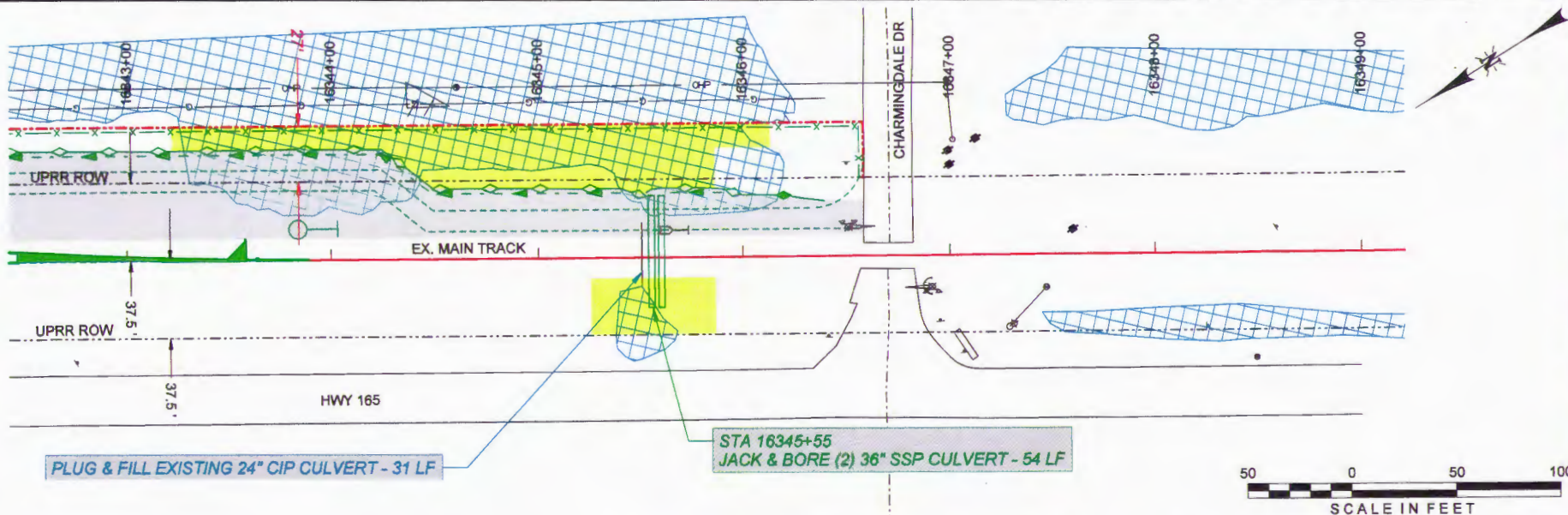
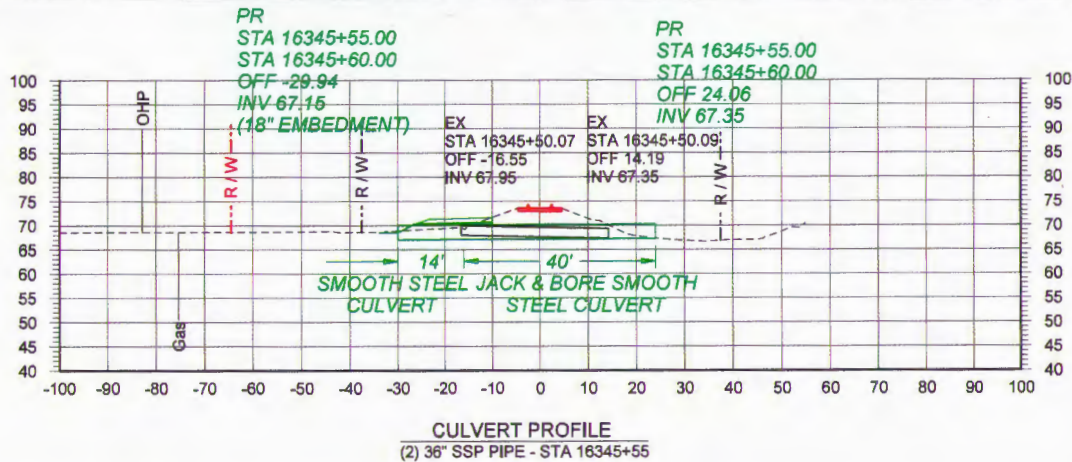
X:\201005\20152.01\Eng\_Docs\Sheets\C010.dgn

CEMVK-OD-FE RVH-MVK-2014-829

MR. GARY BATES

Color: tabler:\r\ns\VB\Workspaces\Projects\UPRR\UPRR.tbl  
r:\n\VB\Workspaces\Projects\UPRR\UPRR.tbl  
Date: 8/17/2014





PRELIMINARY  
NOT FOR CONSTRUCTION



DRAWN BY: HRD	<b>UNION PACIFIC RAILROAD</b>	Office of Assistant Vice President Engineering Design/Construction
CHECKED BY: MJK		
DATE: 08-11-2014	LOCATION & DESCRIPTION: CONSTRUCT SIDING - ERCO, LA MONROE SUBDIVISION MP 505.56 - 508.08	
SHEET NUMBER: C011 of 011	SHEET TITLE: CULVERT PLAN AND PROFILE	

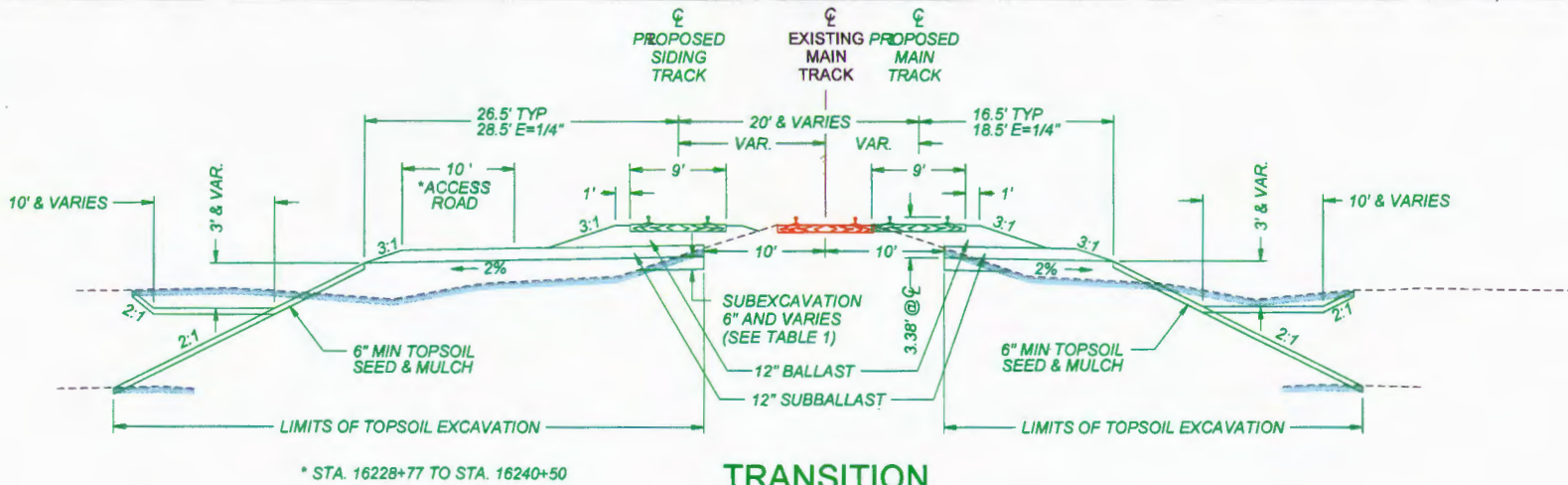
X:\201005\20152.01\Eng.Docs\Sheets\C011.dgn

CEMVK-OD-FE RVH-MVK-2014-829

MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)

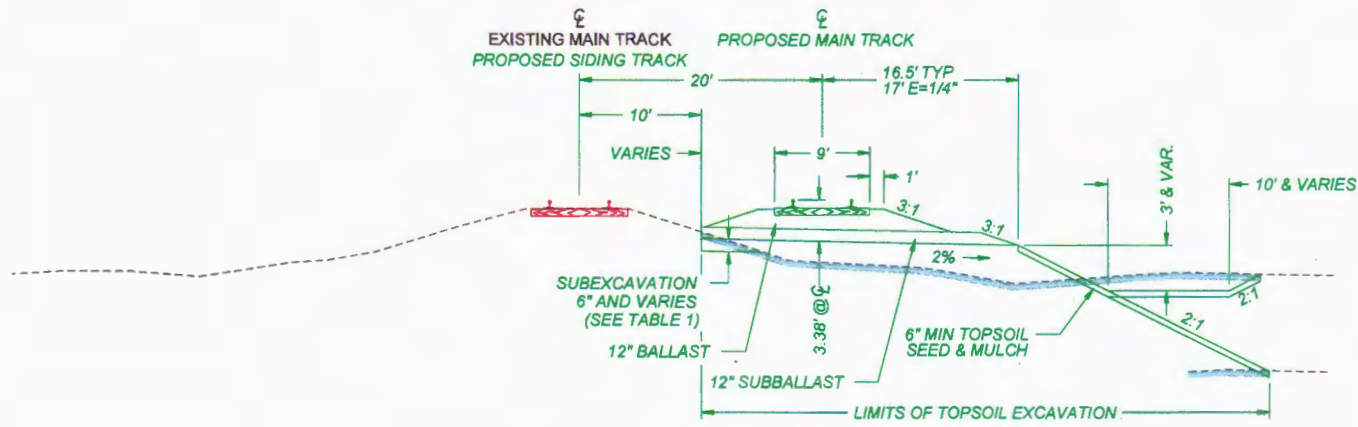
Color: tabler.r\MS\_VB\Workspaces\Projects\UPRR\C011.dgn  
 r:\MS\_VB\Workspaces\Projects\UPRR\C011.dgn  
 8/11/2014





### TRANSITION

STA. 16231+82.00 TO STA. 16260+42.00



### CONSTRUCT MAIN TRACK

STA. 16260+42.00 TO STA. 16301+92.00

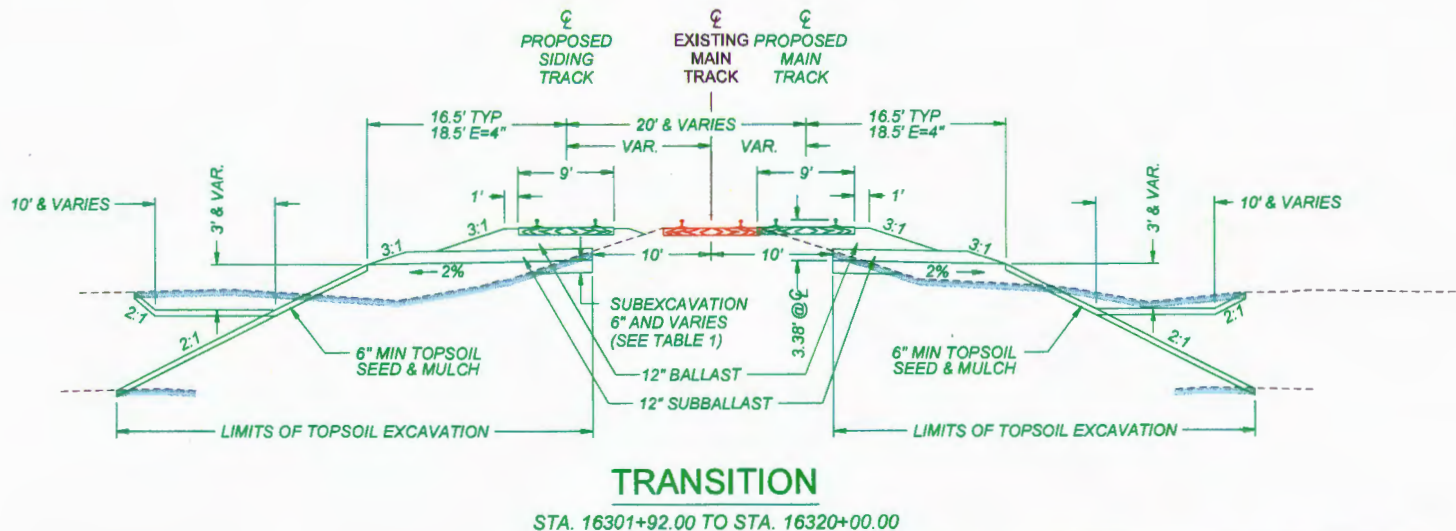
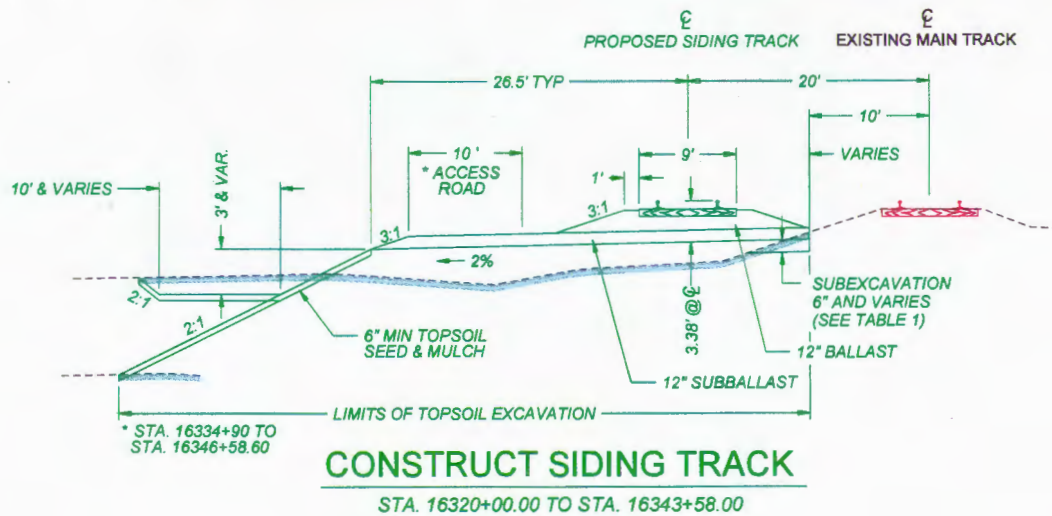
 <small>engineers · scientists · planners</small> Alfred Benesch & Company 4633 Washington Road Kenosha, WI 53144 262-400-8877 Fax No. 20152-01		<small>DRAWN BY:</small> IRD	<b>UNION PACIFIC RAILROAD</b> <small>Office of Assistant Vice President Engineering Design/Construction</small>
		<small>CHECKED BY:</small> MJK	
		<small>DATE:</small> 08-11-2014	
		<small>SHEET NUMBER:</small> T001 of 003	
<small>LOCATION &amp; DESCRIPTION:</small> <b>CONSTRUCT SIDING - ERCO, LA</b> MONROE SUBDIVISION MP 505.56 - 508.08		<small>SHEET TITLE:</small> TYPICAL SECTIONS	



Color: Tablar cr\MS\_VB\Workspaces\Projects\UPRR\UPRR.tbl  
 cr\MS\_VB\Workspaces\Projects\UPRR\Printing\UPRR\_VB\_Pentable.tbl  
 Date: 8/11/2014

CEMVK-OD-FE RVH-MVK-2014-829

MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)





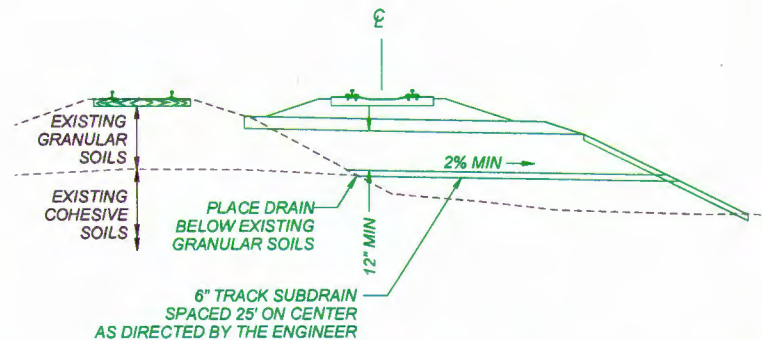
 engineers · scientists · planners Alfred Benesch & Company 4633 Washington Road Monroeville, PA 15146 262-652-0877, Job No. 20152.01		DRAWN BY: HRD CHECKED BY: MJK DATE: 08-11-2014 SHEET NUMBER: T002 of 003	<b>UNION PACIFIC RAILROAD</b> Office of Assistant Vice President Engineering Design/Construction LOCATION & DESCRIPTION: CONSTRUCT SIDING - ERCO, LA MONROE SUBDIVISION MP 505.56 - 508.08
		SHEET TITLE: TYPICAL SECTIONS	
		X:\201005\20152.01\Eng_Doccs\Sheets\T002.dgn	

CEMVK-OD-FE RVH-MVK-2014-829

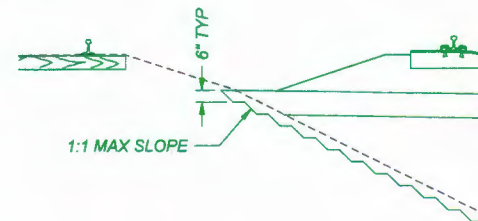
MR. GARY BATES  
UNION PACIFIC RAILROAD (UPRR)

Color: tabler cv\MS\_VB\WorkSpace\Projects\UPRR\UPRR.tbl  
 cv\MS\_VB\WorkSpace\Projects\UPRR\printing\UPRR\_VB\_Pentable.tbl  
 Date Plotted: 8/11/2014





## TRANSVERSE DRAINS



## BENCHING DETAIL

### TABLE 1

BORING	STATION	OFFSET	NOTE	BORING	STATION	OFFSET	NOTE

- NOTE: SEE GEOTECHNICAL ENGINEERING REPORT FOR MORE INFORMATION**
- a GRANULAR MATERIAL IN EMBANKMENT MIGHT REQUIRE INSTALLATION OF TRANSVERSE DRAINS THRU NEW EMBANKMENT CONSTRUCTED OF COHESIVE FILL MATERIALS.
  - b CULVERT EXTENSION OR NEW LOCATION. SEE RECOMMENDATION 4.
  - c DEPTH OF EXCAVATION SHOULD EXTEND 0.5 FEET BELOW PROPOSED FINISHED TRACK SUBGRADE ELEVATION.
  - d EXCAVATE TO 1.0 FT. BELOW FINISHED SUBGRADE, REWORK RESULTANT UPPER 6 INCHES & REPLACE W/ APPROVED FILL MATERIAL.
  - e LOCATION THAT MIGHT REQUIRE SUBGRADE STABILIZATION OR DEWATERING DURING AND FOLLOWING RAINY SEASONS. SEE RECOMMENDATION 5.
  - f OVER-EXCAVATE FOR TRACK SUBGRADE ELASTIC UNIFORMITY. SEE RECOMMENDATION 3.

<small>engineers • scientists • planners</small> Alfred Benesch & Company 4633 Washington Road Kenosha, WI 53144 262-652-6977, fax No. 20152.01		DRAWN BY: HRO	<b>UNION PACIFIC RAILROAD</b> Office of Assistant Vice President Engineering Design/Construction	
		CHECKED BY: MJK		LOCATION & DESCRIPTION:
		DATE: 06-11-2014		CONSTRUCT SIDING - ERCO, LA MONROE SUBDIVISION MP 505.56 - 508.08
SHEET NUMBER T003 of 003	SHEET TITLE: TYPICAL SECTIONS			

CEMVK-OD-FE    RVH-MVK-2014-829

MR. GARY BATES

UNION PACIFIC RAILROAD (UPRR)

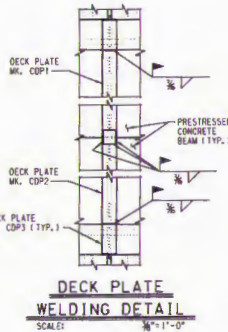
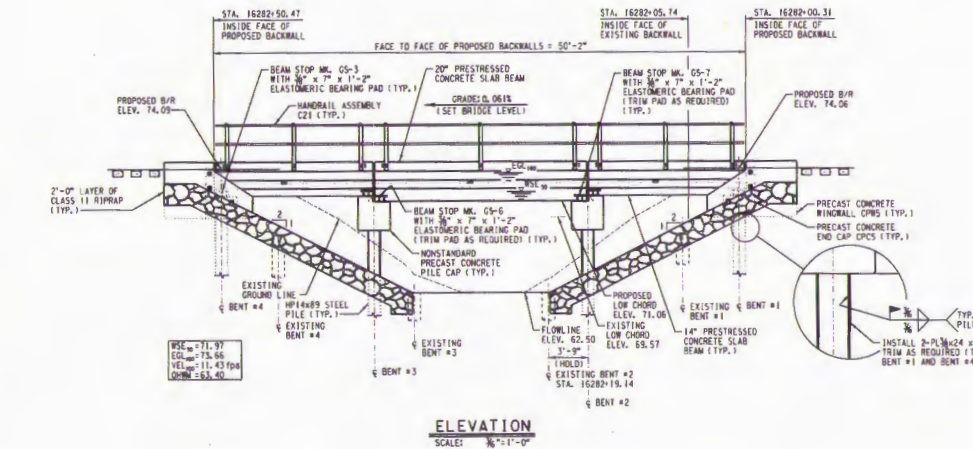
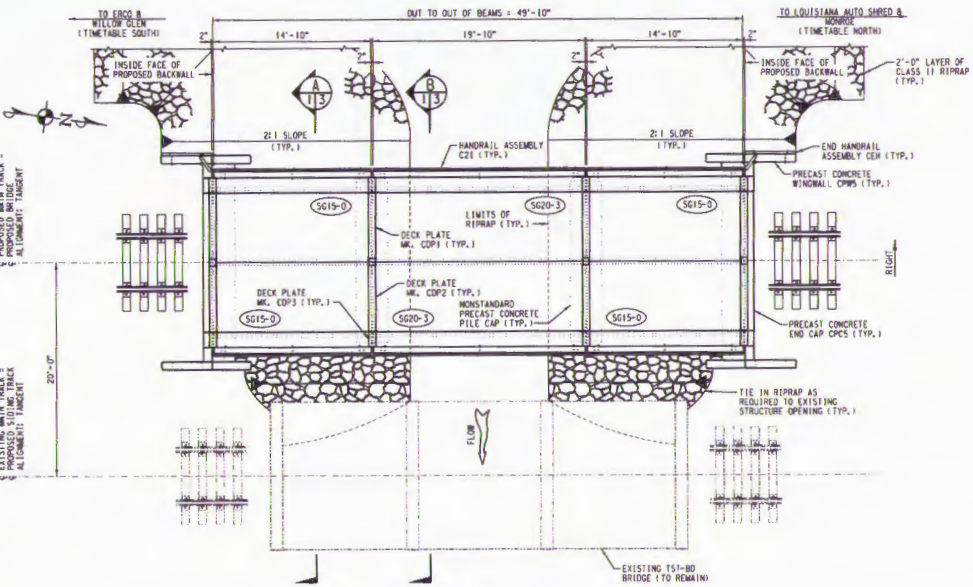
X:\201005\20152.01\Eng\_Doccs\Sheet\T003.dgn

Color: Tabular.rvt;MS\_VB;WorkSpace\Projects\UPRR\T003.dgn  
 cr:\MS\_VB;WorkSpace\Projects\UPRR\Printing\UPRR\_VB\_Pentable.tbl  
 P:\201005\20152.01\Eng\_Doccs\Sheet\T003.dgn  
 8/7/2014



DRAWING SCHEDULE				
SHEET NO.	DESCRIPTION			
1	GENERAL ARRANGEMENT			
2	GENERAL NOTES, PILE LAYOUT AND BILL OF MATERIAL			
3	TYPICAL SECTIONS AND MISCELLANEOUS STEEL DETAILS			
4	NONSTANDARD 15'-0" PILE CAP MODIFICATION DETAILS			
NO.	DRG. NO.	SHEET NO.	REV. NO.	DESCRIPTION
1		POOS OF 000		TRACK PLAN AND TOP OF RAIL PROFILE, ERCD, LOUISIANA, MONROE SUBD/STATION: MILE POST 506.38 TO SOB. ON, MONROE SIDING CONSTRUCTION, DATED JANUARY 20, 2014
2	530000	A1-A2	A	BRK AND SLAB BEAM SPAN, CONSTRUCTION PLANS
3	530000	S61-S62	A	20" SLAB BEAM SPAN, CONSTRUCTION DETAILS
4	530000	S1-S4	A	14" SLAB BEAM SPAN, CONSTRUCTION DETAILS
5	530020	S61-S62	D	14" TO 20" x 7'-0" SLAB BEAM
6	531000	I	A	PRECAST END CAPS FOR SLAB BEAMS
7	501000	C1-C2	A	PRECAST CONCRETE PILE CAP
8	531010	I	A	BEARING PAD PLACEMENT ON CAPS
9	502000	I-4	B	STEEL HARDWARE AND HANDRAIL ASSEMBLIES

EST. WT. OF PRECAST CONCRETE	
SLAB BEAM S620-3	= 38,400 LB. (10.2 TON)
SLAB BEAM S615-0	= 21,450 LB. (10.9 TON)
END CAP CPES	= 21,450 LB. (10.7 TON)
NONSTANDARD 15' PILE CAP	= 21,300 LB. (10.7 TON)
WINDRAIL CPWS	= 3,875 LB. (1.9 TON)



NOTES:  
1. FOR PILE LAYOUT SEE SHEET NO. 2.  
2. END HANDRAIL ASSEMBLY ON FAR PROPOSED SIDE NOT SHOWN IN ELEVATION VIEW FOR CLARITY.

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**POSTCONSTRUCTION COMPLIANCE**

Contractor or UPRR manager in charge of construction to provide to the office of the Director Structures Design as-built drawings confirming that the project was constructed in compliance with the plans and indicating any construction variances.

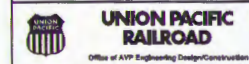
APPROVED FOR  
UNION PACIFIC RAILROAD CO.  
BY  
ALFRED BENECH & CO.  
(OMAHA, NE)

DATE: \_\_\_\_\_

LETTER SERIES  
SHEET NO. CUT ON  
SHEET NO. SHOWN ON

**SECTION DESIGNATION**

NO.	DATE	REVISIONS



Office of AYP Engineering/Design/Construction  
LOCATION: BRIDGE 506.66, 5.5 MILES SOUTH OF MONROE, LA  
FACTORY: 3 SPAN 14" AND 20" PCS x 50" NEXT TO EXISTING 3 SPAN 15'-80" x 35"

**GENERAL ARRANGEMENT**

PROJECT NO.	ENGINEER	LAYOUT
DESIGNED BY	IN-CHG	20-25 20" x 1"
CHECKED BY	DESIGNED BY	CONSTRUCT
DATE	DATE	20-08-09 9
CHECKED BY	DATE	SHEET NO.
DATE	DATE	1 OF 4
SCALE: AS NOTED		C E NUMBER

CEMVK-OD-FE RVH-MVK-2014-829

**MR. GARY BATES**  
**UNION PACIFIC RAILROAD (UPRR)**