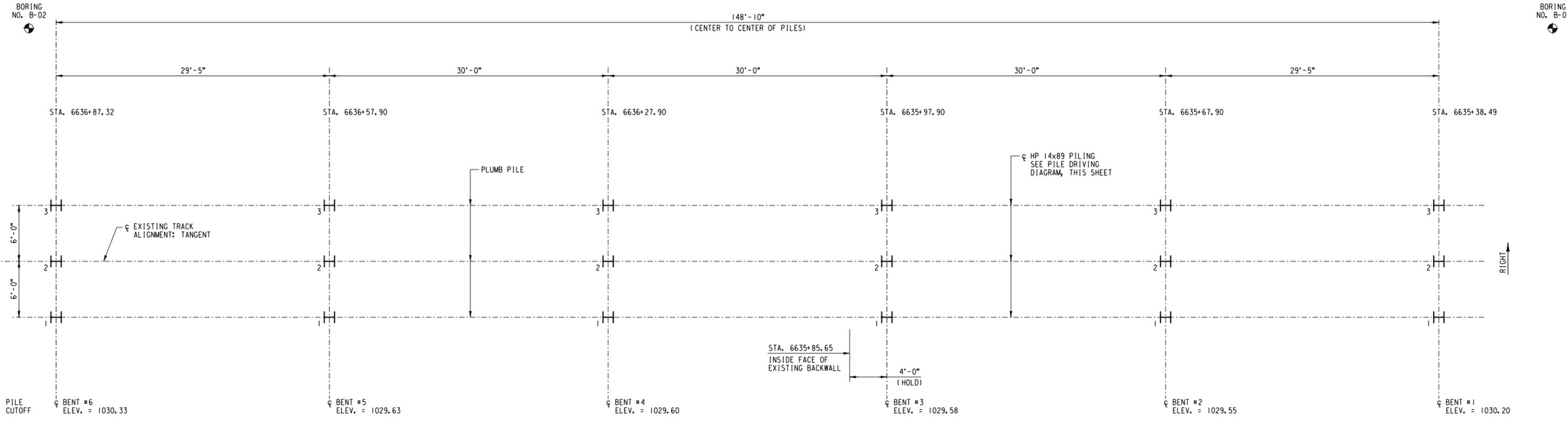
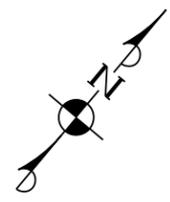


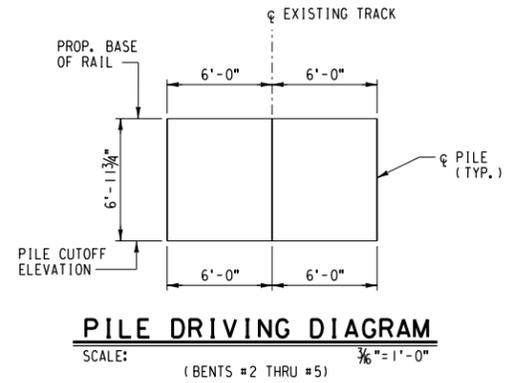
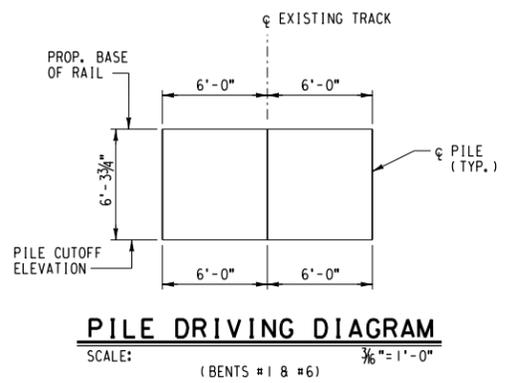


TO EAST FUNSTON 8  
SALINA  
(TIMETABLE WEST)

TO MANHATTAN 8  
EAST MENOKEN  
(TIMETABLE EAST)



**PILE LAYOUT**  
SCALE: 3/8" = 1'-0"  
AT PILE CUTOFF



*Adam D. Stuts* 4-1-11  
APPROVED FOR  
UNION PACIFIC RAILROAD CO.  
BY: SAMAR GOGOI  
DATE: 03/28/11  
HNTB CORPORATION

NO.	DATE	REVISIONS

STATE OF KANSAS  
DEPARTMENT OF TRANSPORTATION

**HNTB**

UNION PACIFIC RAILROAD  
Office of AVP Engineering Design/Construction

LOCATION: BR. 126.31 SALINA SUB.  
8.0 MILES WEST OF MANHATTAN, KS

FACILITY: 5 SPAN PCB x 150' REPLACING  
2 SPAN TSG-0D x 28'

DWG TITLE: PILE LAYOUT

PROJECT ID: -	ENGINEER: UP - ADS	LATITUDE: 39° 08' 47.5" N
WORK ORDER: -	DESIGN BY: SG	LONGITUDE: 96° 38' 53.5" W
CHECKED BY: JCF	DRAWN BY: CYS	SHEET NO. 2 of 15
CHECKED BY: JCF	SCALE: AS SHOWN	C E NUMBER 118426

FILE NAME: P:\ustat\on\g\h\12631L.bis  
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**CONSTRUCTION NOTES**

**NOTES**

- All work requirements shown on these drawings and not otherwise detailed shall be accomplished as specified in Union Pacific Railroad Specifications and the most current American Engineering and Maintenance-of-Way Association (AREMA) Manual for Railway Engineering. In the event of conflicts between the UPRR Specifications, drawings and the AREMA Manual the more restrictive will apply. The UPRR Guidelines and Specifications are available at <http://www.uprr.com/aboutup/operations/specs/index.shtml>.
- The proposed structure has been designed for Cooper E-80 live loading plus impact and 30 inches total depth of ballast.
- All information shown on these plans regarding location of the existing track, existing bridge and existing ground elevations are based on information provided by KDOT including drawings of existing bridge and site location survey, dated 04/23/09.
- Contractor shall perform excavation as required for construction of the new substructure and replace the areas removed and disturbed in the course of construction to a condition equal to or better than existing.
- The existing bridge is to remain in service during H-Pile driving.
- Rail stationing is based on West Face of the East Backwall of the existing Bridge No. 126.32 at Station 6636+02.40 as shown in UPRR Right-of-Way Map.
- Local Datum: BM #30 - A standard disk stamped R 263 1940 set in the SE wingwall of bridge under East Bound K-18 Highway, Sta. 6636+01.61; 59.66' RT. Elev. = 1036.92
- For additional information on channel see plans and specifications for State Highway K-18 (Riley County), KDOT Project No. 18-81 KA-0410-04.
- For Geotechnical Investigation see KDOT Bridge Foundation Geology Report, Project No. 18-81-KA 0410-01, UPRR Over Eureka Valley Tributary and HWS Report dated 6/5/2009.
- Contact the Union Pacific "Call Before You Dig" number 90 days (not less than 60 days) prior to proposed construction start date. Prior to construction, confirm that all necessary relocations have been completed. The CBYD number is: 1-800-336-9193.**

**DIVISION OF RESPONSIBILITY**

**A. RAILROAD**

- Remove existing track and provide and install new ballast and track. Refer to UPRR Standard Track Plans and Specifications for installation of ballast and track.
- Install bridge marker signs at ends of proposed bridge.

**B. CONTRACTOR**

- Coordinate all construction activities with the Railroad and KDOT.
- Before ordering any materials, the contractor shall make a detailed field inspection of the site verifying all pertinent dimensions and elevations. Any variations in dimensions or elevations from those shown on the plans shall be reported immediately to UPRR Project Manager.
- Verify the location, relocation, abandonment, and/or temporary support of all utilities affected by the construction of the structure and embankment and coordinate these activities with the appropriate utility companies, agencies and/or authorities. For information on, and relocation of, fiber optic cable, and other utilities call 1-800-336-9193 and Kansas One Call 1-800-344-7233.
- KDOT has obtained all required permits associated with the project improvements as detailed in KDOT Proj. 18-81 KA-0410-04 and these drawings, which may not be all inclusive depending upon the Contractors preferred means and methods. The Contractor shall coordinate with KDOT to determine that the constraints of the permits will cover these proposed work activities. Otherwise the Contractor shall be responsible for securing additional permits.
- Provide the Railroad with a detailed construction plan defining the activity, schedule and procedure for each aspect of the work. Construction shall not begin until the construction plan has been approved by the Railroad. Construction Plan to address H-Pile driving while existing bridge is in service. Installation of superstructure will be during a train free window.
- Furnish all material including items shown in the Bill of Material and incidental material not shown.
- Remove existing bridge and timber pile up to limits of Phase II excavation.
- Construct new bridges per specification.
- Perform all work not performed by the Railroad.
- Direct channel flow as required to perform work.
- Provide all temporary shoring and/or bracing required to support and protect the existing embankment, bridge abutments and piers affected by the work. Provide the Railroad with details, design and procedure for all temporary shoring and/or bracing. All temporary shoring and bracing shall be designed, signed and sealed by a professional engineer registered in the state of Kansas. All temporary shoring and bracing must be approved by the UPRR Office of AVP Engineering Design/Construction prior to beginning construction. The provisions of UPRR standard Dwg. No. 106613 shall be met.
- Provide and place all fill and subballast material per UPRR Grading Specifications. Perform grading as required to provide proposed top of rail profile.
- Accomplish activities within the schedule specified in the approved construction plan.
- Perform Stage I and Stage II excavation as shown in the drawings.
- Place 12" bedding stone and riprap as shown at the abutment slopes.
- Access to staging area shown on Sheet No. 10 is from EB-K18 and grade crossing at approximate Sta. 6655+00. Temporary grade crossing will be required across the tracks north of the bridge.
- Pick up HPI4x89 piles provided by KDOT from storage site. Contact Jerry Haug, Construction Manager, 785-456-2353.
- Relocate existing riprap and place temporary berm as shown in plans.

**C. KDOT**

- Traffic control along EB-K18 to be provided by KDOT to facilitate truck entrance into staging area.
- KDOT to provide HPI4x89 piling as shown in the bill of material for use by the Contractor.
- KDOT to perform Phase III channel excavation beyond Phase II as required per the final final grading of the channel. (See KDOT Proj. 18-81 KA-0410-04).
- KDOT to remove any remaining timber piles to limits of Phase III excavation.
- KDOT to place remainder of 12" bedding stone and riprap across the new channel bottom after Phase III excavation is complete.

**D. MATERIALS**

- Stone for bedding and riprap shall be per Special Provisions on Sheet No. 11.
- Material certification showing that Special Provisions are being met shall be provided for review.

**GENERAL NOTES**

**GENERAL:**

Field verify all dimensions, stations and elevations prior to start of construction.

**SITE LAYOUT INFORMATION:**

Profile: See Top of Rail profile, Sheet No. 5  
 2 3/8" Raise WFEBW  
 2 1/2" Raise EFWBW

Track Alignment: Tangent

Right Of Way: 50' Left of existing Main Line Track centerline  
 50' Right of existing Main Line Track centerline

**PILE DRIVING:**

All numbered pile shall be driven to 138 ton capacity. If any numbered pile cannot be driven to this capacity the Office of AVP Engineering Design/Construction must be notified.

Estimated capacity of driving piles shall be calculated using the modified ENR formula with factor of safety of 5. Direct questions to the structures design group, Office of AVP Engineering Design/Construction.

**FIELD WELDING:**

Welding must be accomplished with the SMAW Process. Welding must be in compliance with the requirements specified in AWS D1.5-95, except 3/16 in. fillet welds may be made with a single pass. Welding electrodes must be E7018. Welders must possess valid certification.

**DESIGN NOTES**

This structure was designed for Cooper E80 Live Load with 30" ballast and impact.

**DESIGN PILE LOAD:**

End bent = 76 Ton  
 Interior Bent = 138 Ton

BILL OF MATERIAL					
REQ'D	UNIT	DESCRIPTION	STORE ITEM NO.	ORDERED BY	
10	EA.	BOX BEAM, P/S CONCRETE 30" DEEP x 30", TYPE I, W/ SLOPED CURB, MK. BG30-0 (PER REF. 1 & 2) (BUY AMERICA)	511-7828	UPRR MANAGER TRACK PROJECTS	CONTRACTOR KDOT UPRR MCR. BRIDGE CONSTRUCTION
2	EA.	PRECAST CONCRETE END CAP MK. CPC4 W/ BEARING PADS FOR 30" P/S CONCRETE BOX BEAM (PER REF. 4 & 5) (BUY AMERICA)	511-0035		
4	EA.	PRECAST CONCRETE PILE CAP 3'-0" x 2'-8" x 15'-0" W/ BEARING PADS FOR 30" P/S CONCRETE BOX BEAM (PER REF. 3 & 5) (BUY AMERICA)	511-0350		
4	EA.	PRECAST CONCRETE WINGWALL MK. CPW2 FOR 30" CONC. BOX BEAM (PER REF. 6) (BUY AMERICA)	511-0036		
3	EA.	HPI4x89x 40'-0" STEEL PILING (A572, GR. 50) (BUY AMERICA)	510-7557		
9	EA.	HPI4x89x 60'-0" STEEL PILING (A572, GR. 50) (BUY AMERICA)	510-7593		
18	EA.	PILE SPLICER FOR HPI4x89 STEEL PILE (PER REF. 9) (BUY AMERICA)	510-8065		
18	EA.	TIP REINFORCEMENT HARD-BITE POINT MODEL HP-77600-B (BUY AMERICA)	510-8063		
16	EA.	C10x15.3 x 20'-0" BRACE (A36, PLAIN) (BUY AMERICA)	247-6649		
8	EA.	BEAM STOP MK. GS-2, (PER REF. 7) (BUY AMERICA)	510-0595		
4	EA.	BEAM STOP MK. GS-3, (PER REF. 7) (BUY AMERICA)	510-0596		
6	EA.	DECK PLATE MK. CDP1, GALVANIZED (PER REF. 7) (BUY AMERICA)	510-0590		
6	EA.	DECK PLATE MK. CDP2, GALVANIZED (PER REF. 7) (BUY AMERICA)	510-0591		
12	EA.	DECK PLATE MK. CDP3, GALVANIZED (PER REF. 7) (BUY AMERICA)	510-0592		
5	EA.	HANDRAIL ASSEMBLY FOR 29'-10" CONCRETE INTERIOR SPAN ASSEMBLY C21 (PER REF. 8) (BUY AMERICA)	510-0472		
5	EA.	HANDRAIL ASSEMBLY FOR 29'-10" CONCRETE INTERIOR SPAN ASSEMBLY C2G1 (PER REF. 8) (BUY AMERICA)	510-0564		
2	EA.	END HANDRAIL ASSEMBLY CEH (PER REF. 8) (BUY AMERICA)	513-3020		
2	EA.	END HANDRAIL ASSEMBLY CEHG W/ GRATING (PER REF. 8) (BUY AMERICA)	513-3021		
4	EA.	PL3/8x 24x 10'-0" (A36, PLAIN) (BUY AMERICA)	510-7650		
48	EA.	1/2"x28"x 6'-4" PREMOLED ASPHALT IMPREGNATED FIBER EXPANSION JOINT FILLER, PER ASTM D1751 (BUY AMERICA)	511-8213		
16	EA.	3/8"x7"x 0'-7" NEOPRENE BEARING PAD (PER REF. 2) (BUY AMERICA)	510-3635		
4	EA.	3/8"x7"x 1'-2" NEOPRENE BEARING PAD (PER REF. 2) (BUY AMERICA)	510-3637		
1770	CU. YD.	CHANNEL EXCAVATION (STAGE I AND STAGE II)			
18	CU. YD.	WELL GRADED 1 1/2" MAXIMUM CRUSHED ROCK	562-2764		
74	TON	BEDDING STONE			
425	TON	RIPRAP, CLASS II	562-3430		
9	EA.	HPI4x89x 18'-0" +/- STEEL PILING (A588, GR. 50)			
2	EA.	HPI4x89x 25'-0" STEEL PILING (A588, GR. 50)			
1	EA.	HPI4x89x 25'-3" STEEL PILING (A588, GR. 50)			
9	EA.	HPI4x89x 50'-0" STEEL PILING (A588, GR. 50)			
2710	CU. YD.	CHANNEL EXCAVATION (REMAINDER WITHIN UPRR ROW, PER SHEET NOS. 1, 3 & 8)			
660	TON	BEDDING STONE (REMAINDER WITHIN UPRR ROW, PER SHEET NOS. 1, 3 & 8)			
1980	TON	RIPRAP, CLASS II (REMAINDER WITHIN UPRR ROW, PER SHEET NOS. 1, 3 & 8)			
2	EA.	BRIDGE MARKER PER ENGINEERING STANDARDS DRAWING NO. 0507	P00-2616		

EST. WT. OF MISCELLANEOUS STEEL (NOT INCL. BOLTS) = 9,760 LB.  
 EST. WT. OF STEEL PILING HP 14x89 = 120,710 LB.  
 EST. WT. OF STEEL BRACING = 4,900 LB.

NOTE:  
 CLASS II RIPRAP EQUALS RIPRAP STONE (CHANNEL RIPRAP B).  
 SEE SPECIAL PROVISIONS ON SHEET NO. 11.

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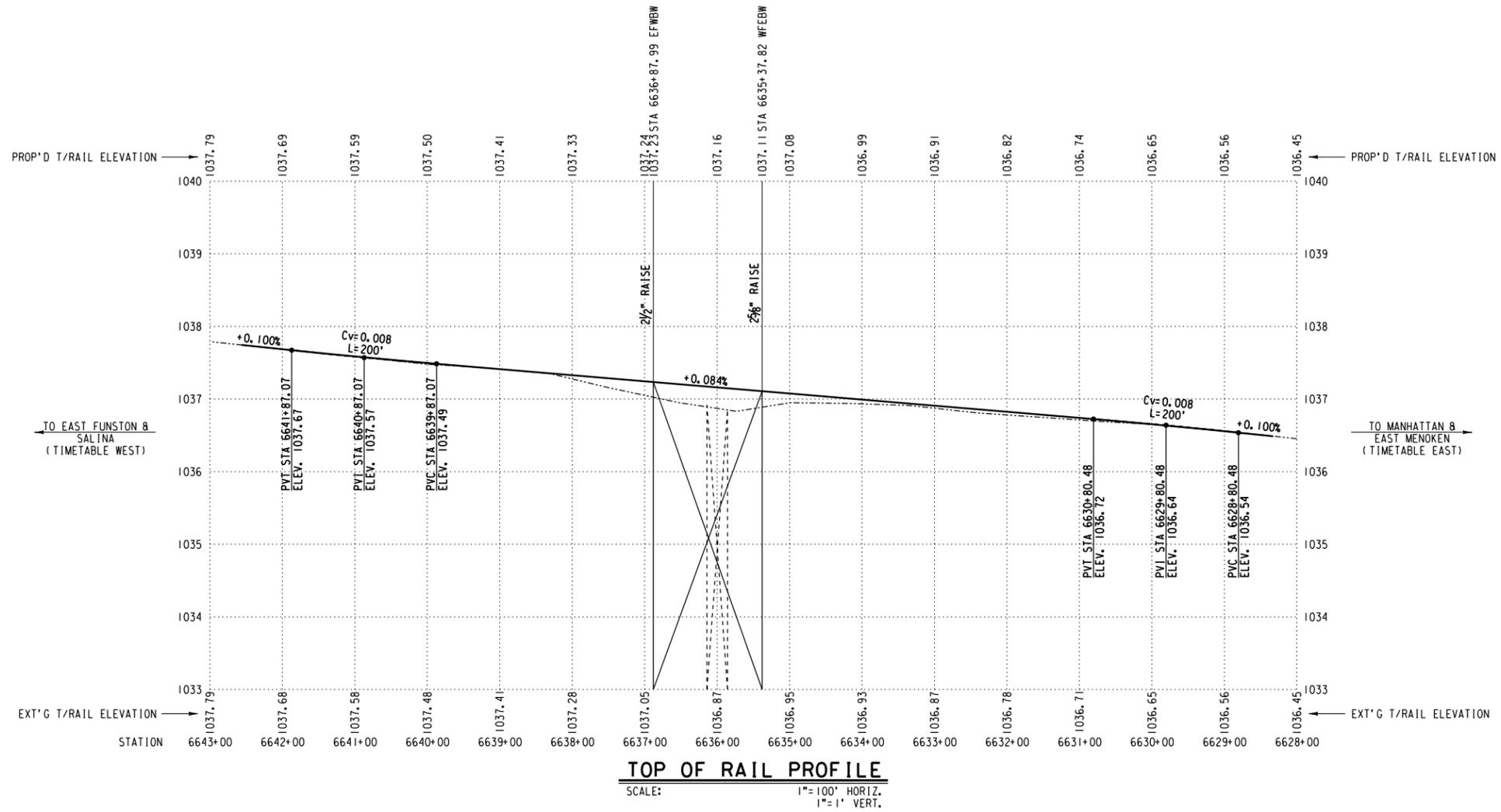
NO.	DATE	REVISIONS
STATE OF KANSAS <b>DEPARTMENT OF TRANSPORTATION</b>  <b>HNTB</b>  <b>UNION PACIFIC RAILROAD</b> Office of AVP Engineering Design/Construction		
LOCATION: BR. 126.31 SALINA SUB. 8.0 MILES WEST OF MANHATTAN, KS		
FACILITY: 5 SPAN PCB x 150' REPLACING 2 SPAN TSG-0D x 28'		
DWG TITLE: <b>BILL OF MATERIAL AND CONSTRUCTION NOTES</b>		
PROJECT ID: -	ENGINEER: -	LATITUDE: 39° 08' 47.5" N
WORK ORDER: -	UP - ADS	LONGITUDE: 96° 38' 53.5" W
DESIGN BY: SG	HNTB - SG	
CHECKED BY: JCF		
DRAWN BY: CYS	SHEET NO.	C E NUMBER
CHECKED BY: JCF	3 of 15	118426
SCALE: AS SHOWN		

*Adam D. Stults* 4-1-11

APPROVED FOR  
 UNION PACIFIC RAILROAD CO.  
 BY: SAMAR GOGOI  
 DATE: 03/28/11



FILE NAME: P:\ustat\on\gn\sal\12631L.bis



*Adam D. Stuts* 4-1-11

APPROVED FOR  
 UNION PACIFIC RAILROAD CO.  
 BY: SAMAR GOGOI  
 DATE: 03/28/11

NO.	DATE	REVISIONS

STATE OF KANSAS  
 DEPARTMENT OF TRANSPORTATION

**HNTB**

UNION PACIFIC  
 RAILROAD  
 Office of AVP Engineering Design/Construction

LOCATION: BR. 126.31 SALINA SUB.  
 8.0 MILES WEST OF MANHATTAN, KS

FACILITY: 5 SPAN PCB x 150' REPLACING  
 2 SPAN TSG-0D x 28'

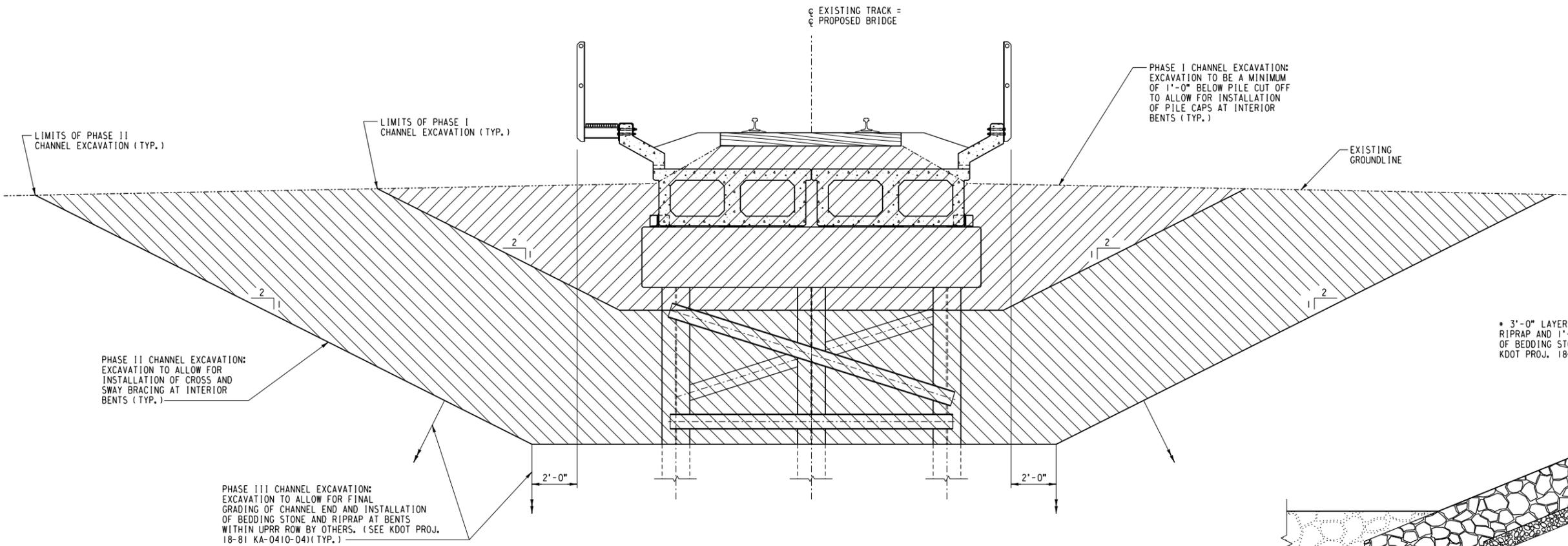
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PROJECT ID: -	ENGINEER: UP - ADS	LATITUDE: 39° 08' 47.5" N
WORK ORDER: -	HNTB - SG	LONGITUDE: 96° 38' 53.5" W
DESIGN BY: JCF		
CHECKED BY: JCF		
DRAWN BY: CYS	SHEET NO. 5 of 14	C E NUMBER 118426
CHECKED BY: JCF		
SCALE: AS SHOWN		



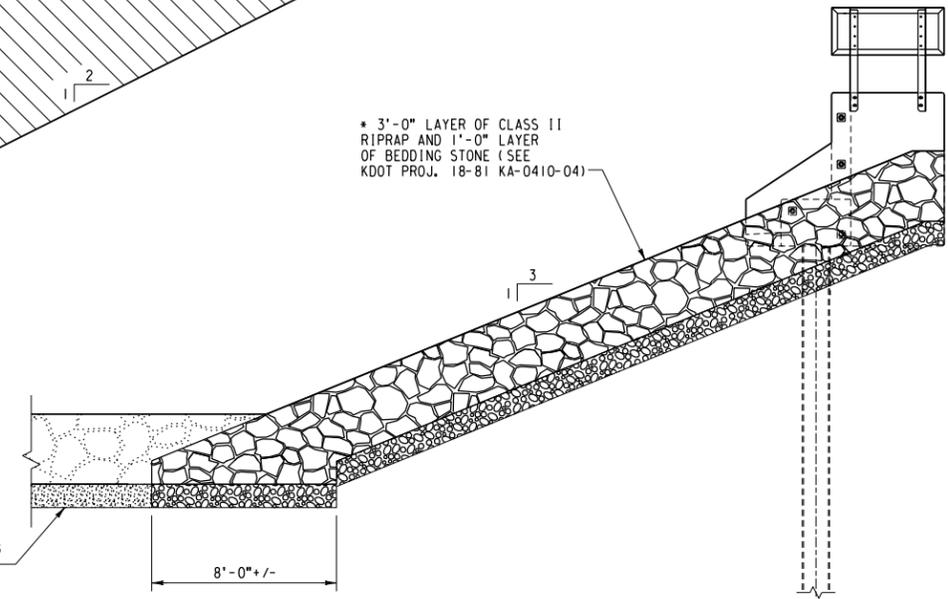






**PHASED EXCAVATION AT INTERIOR BENTS**

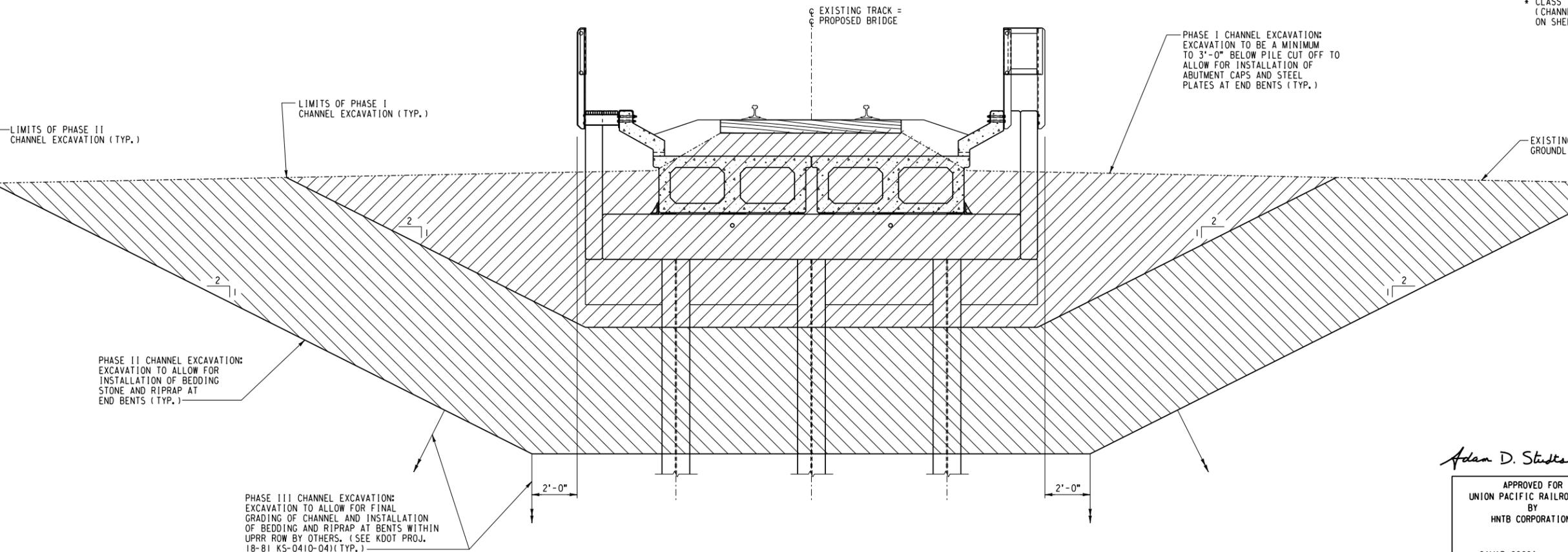
SCALE:  $\frac{3}{8}'' = 1'-0''$   
(BENT #2 SHOWN, BENTS #3 THRU #5 SIMILAR)



**RIPRAP DETAILS**

SCALE: NONE

\* CLASS II RIPRAP EQUALS RIPRAP STONE (CHANNEL RIPRAP B). SEE SPECIAL PROVISIONS ON SHEET NO. 11.



**PHASED EXCAVATION AT END BENTS**

SCALE:  $\frac{3}{8}'' = 1'-0''$   
(BENT #6 SHOWN, BENT #1 SIMILAR)

*Adam D. Stultz* 4-1-11  
APPROVED FOR  
UNION PACIFIC RAILROAD CO.  
BY: SAMAR GOGOI  
DATE: 03/28/11  
HNTB CORPORATION

NO.	DATE	REVISIONS
FORMER BRIDGE NO. 126.32		
STATE OF KANSAS DEPARTMENT OF TRANSPORTATION		
<b>HNTB</b>		
UNION PACIFIC RAILROAD Office of AVP Engineering Design/Construction		
LOCATION:	BR. 126.31	SALINA SUB. 8.0 MILES WEST OF MANHATTAN, KS
FACILITY:	5 SPAN PCB x 150' REPLACING 2 SPAN TSG-0D x 28'	
DWC TITLE: CHANNEL EXCAVATION PHASING SECTIONS AND DETAILS		
PROJECT ID:	ENGINEER:	LATITUDE:
WORK ORDER:	UP - AOS	39° 08' 47.5" N
DESIGN BY:	HNTB - SG	LONGITUDE:
CHECKED BY:	JCF	96° 38' 53.5" W
DRAWN BY:	CYS	C E NUMBER
CHECKED BY:	JCF	SHEET NO.
SCALE: AS SHOWN	9 of 15	118426

EXIST. UPRR ROW  
 TO EAST FUNSTON 8  
 SALINA  
 (TIMETABLE WEST)

TO MANHATTAN 8  
 EAST MENOKEN  
 (TIMETABLE EAST)

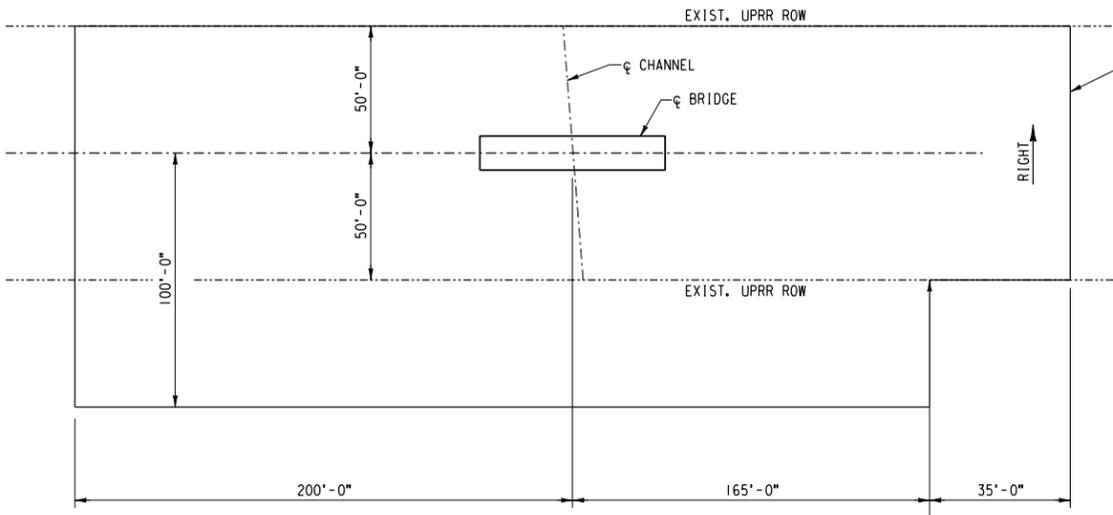
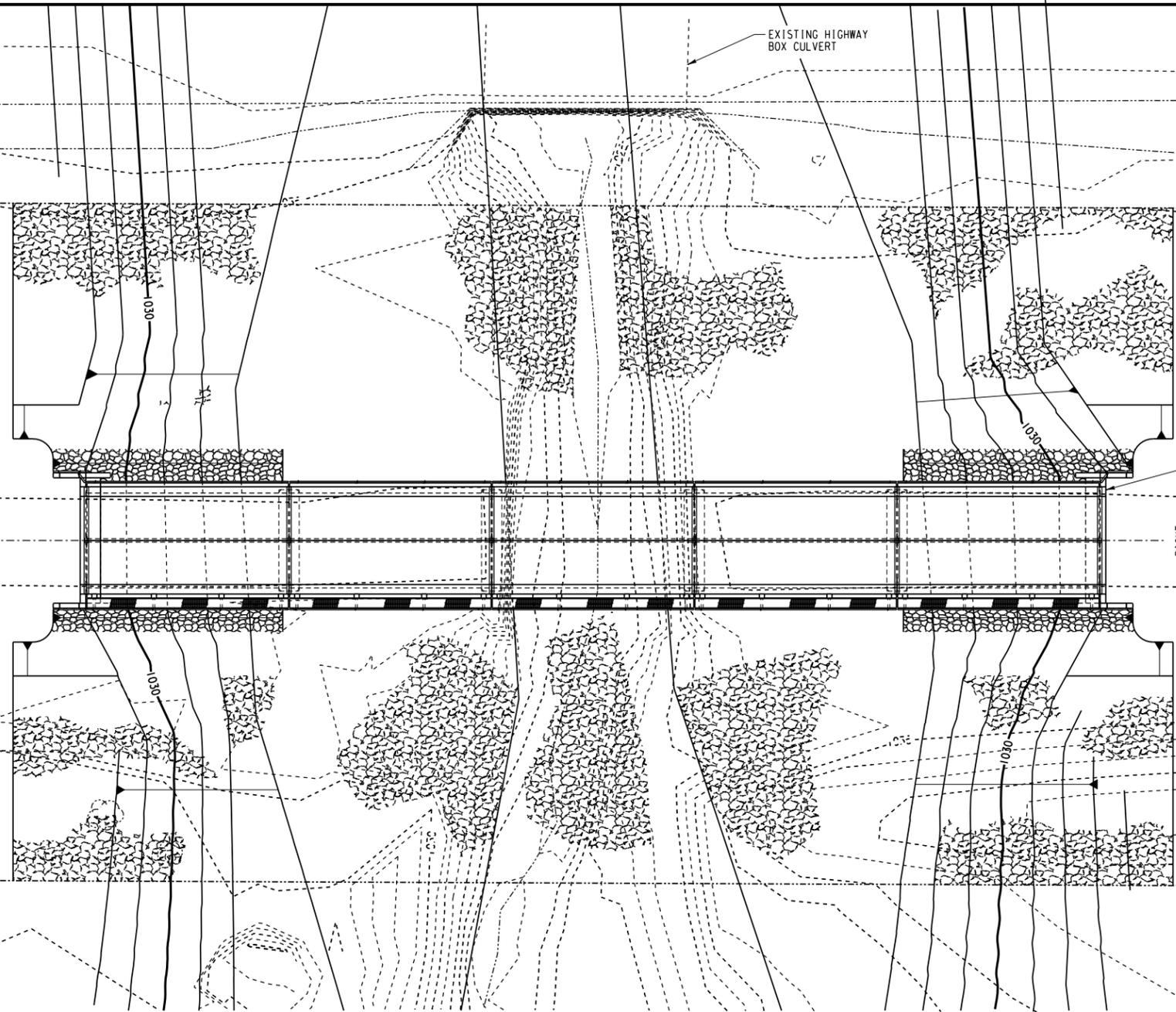
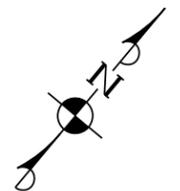
EXISTING TRACK  
 ALIGNMENT: TANGENT

EXISTING HIGHWAY  
 BOX CULVERT

5 SPAN PCB x 150'-0" REPLACING  
 2 SPAN TSG-OD x 28'-0"

12  
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2  
1

EXIST. UPRR ROW



**PROPOSED FINAL CHANNEL GRADING PLAN**

SCALE: 1/2" = 1'-0"  
 (AFTER PHASE III EXCAVATION)

**LEGEND**

-  3'-0" LAYER OF CLASS II RIPRAP (CHANNEL RIPRAP B) AND 1'-0" LAYER OF BEDDING STONE PER THIS CONTRACT.
-  3'-0" LAYER OF CLASS II RIPRAP (CHANNEL RIPRAP B) AND 1'-0" LAYER OF BEDDING STONE BY OTHERS.

*Adam D. Stults* 4-1-11  
 APPROVED FOR  
 UNION PACIFIC RAILROAD CO.  
 BY HNTB CORPORATION  
 BY: SAMAR GOGOI  
 DATE: 03/28/11

NO.	DATE	REVISIONS

STATE OF KANSAS  
**DEPARTMENT OF TRANSPORTATION**

**HNTB**

UNION PACIFIC  
**RAILROAD**  
 Office of AVP Engineering Design/Construction

LOCATION:  
 BR. 126.31 SALINA SUB.  
 8.0 MILES WEST OF MANHATTAN, KS

FACILITY:  
 5 SPAN PCB x 150' REPLACING  
 2 SPAN TSG-OD x 28'

DWG TITLE:  
**CHANNEL GRADING PLAN AND  
 CONSTRUCTION STAGING AREA**

PROJECT ID: -	ENGINEER: UP - ADS	LATITUDE: 39° 08' 47.5" N
WORK ORDER: -	HNTB - SG	LONGITUDE: 96° 38' 53.5" W
DESIGN BY: SG		
CHECKED BY: JCF		
DRAWN BY: CYS	SHEET NO. 10 of 15	C E NUMBER 118426
CHECKED BY: JCF		
SCALE: AS SHOWN		

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**KANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION TO THE  
STANDARD SPECIFICATIONS, 2007 EDITION**

**SECTION 1114**

**STONE FOR RIPRAP, DITCH LINING AND OTHER MISCELLANEOUS USES**

**Page 1100-35, subsection 1114.1. Add to this subsection:**

- Riprap Stone (Channel Riprap B)

**Page 1100-37, subsection 1114.2. Add to this subsection:**

**i. Stone for Riprap Stone (Channel Riprap B)**

- (1) Class. Provide the class for installation as specified in the Contract Documents.
- (2) Quality.
- Specific Gravity (S.S.D.), min. (KT-6, Procedure I) ..... 2.57
  - Soundness, minimum (KTMR-21) ..... 0.85
  - Wear, maximum (KTMR-25) ..... 45%

(3) Product Control.

- Deleterious Substances. Provide stone for riprap that is free from earth, soapstone, shale, shale-like or other easily disintegrated material that decrease the durability of the material after placement.
- Size. The class requirements are given in TABLE 1114-5.

TABLE 1114-5: STONE FOR RIPRAP								
Class	Percent Heavier Than							
	1300 lbs	1000 lbs	700 lbs	525 lbs	325 lbs	175 lbs	45 lbs	30 lbs
Channel Riprap B	0	5-15			50-70		85+	

**j. Bedding for Channel Rip Rap.**

- (1) Composition. Provide either singly or in combination, crushed stone or gravel for filter course material as specified in the Contract Documents.
- (2) Quality.
- Specific Gravity (S.S.D.), min. (KT-6, Procedure I) ..... 2.30
  - Soundness, minimum (KTMR-21) ..... 0.85
  - Wear, maximum (KTMR-25) ..... 45%

(3) Product Control.

- Size. The permissible limits are given in TABLE 1114-7.

TABLE 1114-7: BEDDING FOR CHANNEL RIP RAP				
Material	Percent Retained on Sieve Size			
	6"	3"	1"	1/4"
Bedding Stone	0	5-25	40-60	75-95

*Adam D. Stuts* 4-1-11

APPROVED FOR  
UNION PACIFIC RAILROAD CO.  
BY: SAMAR GOGOI  
DATE: 03/28/11

NO.	DATE	REVISIONS

STATE OF KANSAS  
**DEPARTMENT OF TRANSPORTATION**

**HNTB**

 **UNION PACIFIC RAILROAD**  
Office of AVP Engineering Design/Construction

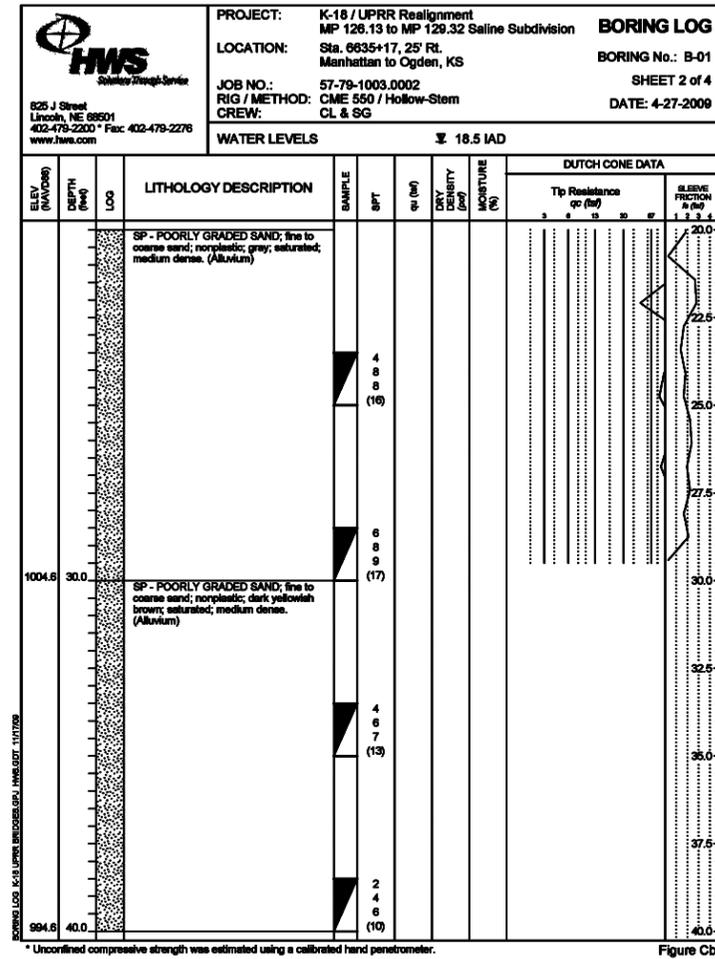
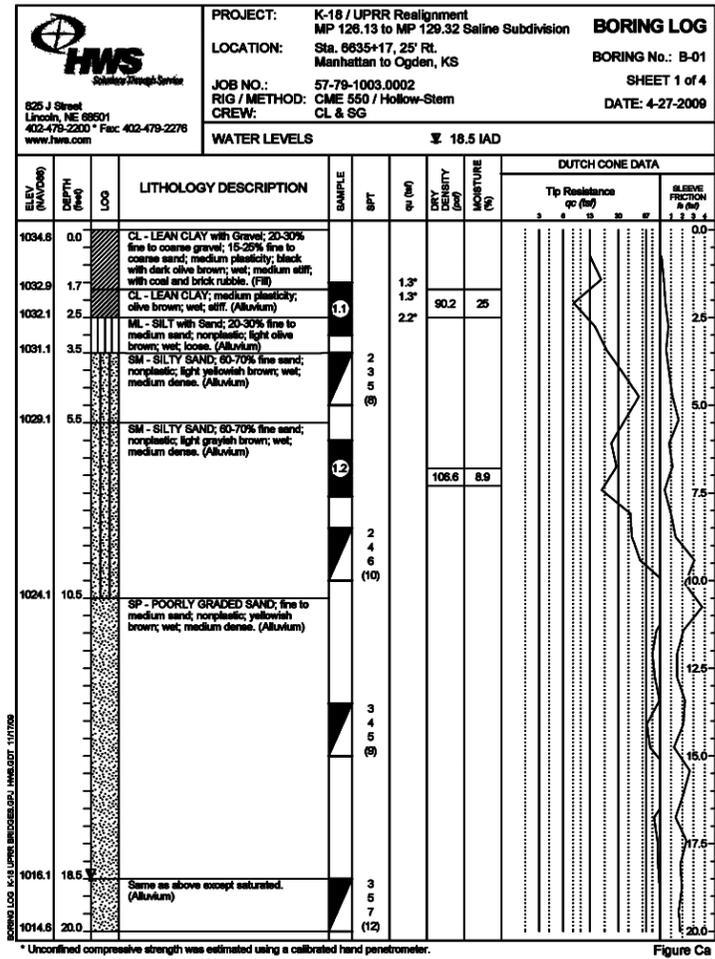
LOCATION:  
BR. 126.31 SALINA SUB.  
8.0 MILES WEST OF MANHATTAN, KS

FACILITY:  
5 SPAN PCB x 150' REPLACING  
2 SPAN TSG-0D x 28'

DWG TITLE:  
SPECIAL PROVISIONS

PROJECT ID: -	ENGINEER: UP - ADS	LATITUDE: 39° 08' 47.5" N
WORK ORDER: -	HNTB - SG	LONGITUDE: 96° 38' 53.5" W
DESIGN BY: JCF		
CHECKED BY: JCF		
DRAWN BY: CYS	SHEET NO. 11 of 15	C E NUMBER 118426
CHECKED BY: JCF		
SCALE: AS SHOWN		

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NO.	DATE	REVISIONS
STATE OF KANSAS DEPARTMENT OF TRANSPORTATION		
UNION PACIFIC RAILROAD		
Office of AVP Engineering Design/Construction		
LOCATION: BR. 126.31	SALINA SUB. 8.0 MILES WEST OF MANHATTAN, KS	
FACILITY:	5 SPAN PCB x 150' REPLACING 2 SPAN TSG-0D x 28'	
DWG TITLE:	BORING LOG B-01 (1 OF 2)	
PROJECT ID: -	ENGINEER: -	LATITUDE: 39° 08' 47.5" N
WORK ORDER: -	UP - ADS	LONGITUDE: 96° 38' 53.5" W
DESIGN BY: SG	HNTB - SG	
CHECKED BY: JCF		
DRAWN BY: CYS	SHEET NO. 12 of 15	C E NUMBER 118426
CHECKED BY: JCF		
SCALE: AS SHOWN		

*Adam D. Stults* 4-1-11

APPROVED FOR  
UNION PACIFIC RAILROAD CO.  
BY  
SAMAR GOGOI  
DATE: 03/28/11



FILE NAME: P:\ustat\on\gn\sal\126311.bis

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6

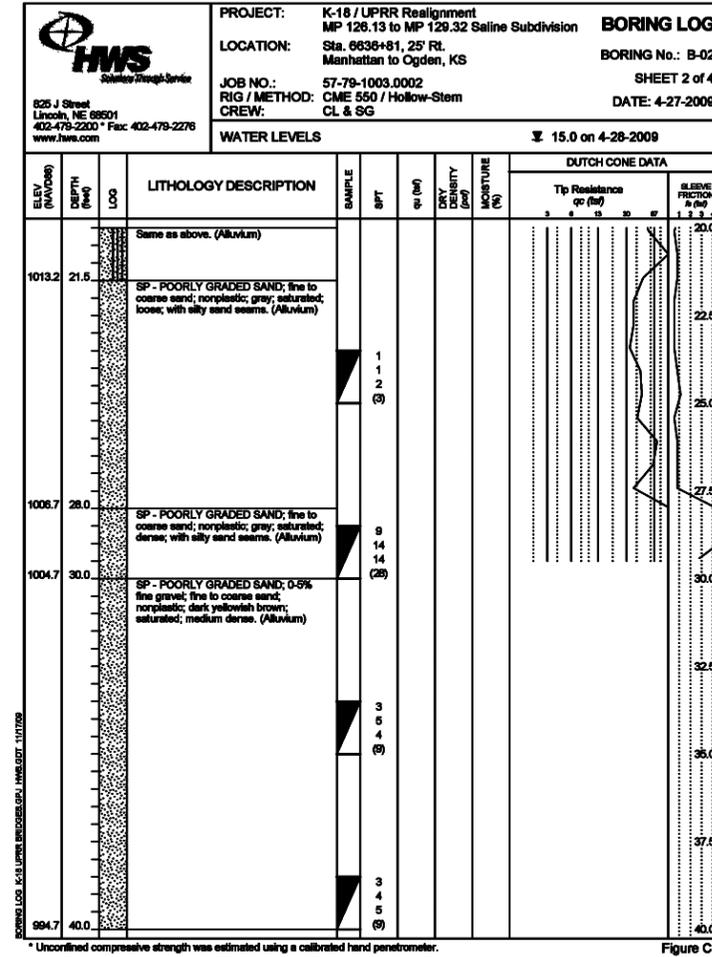
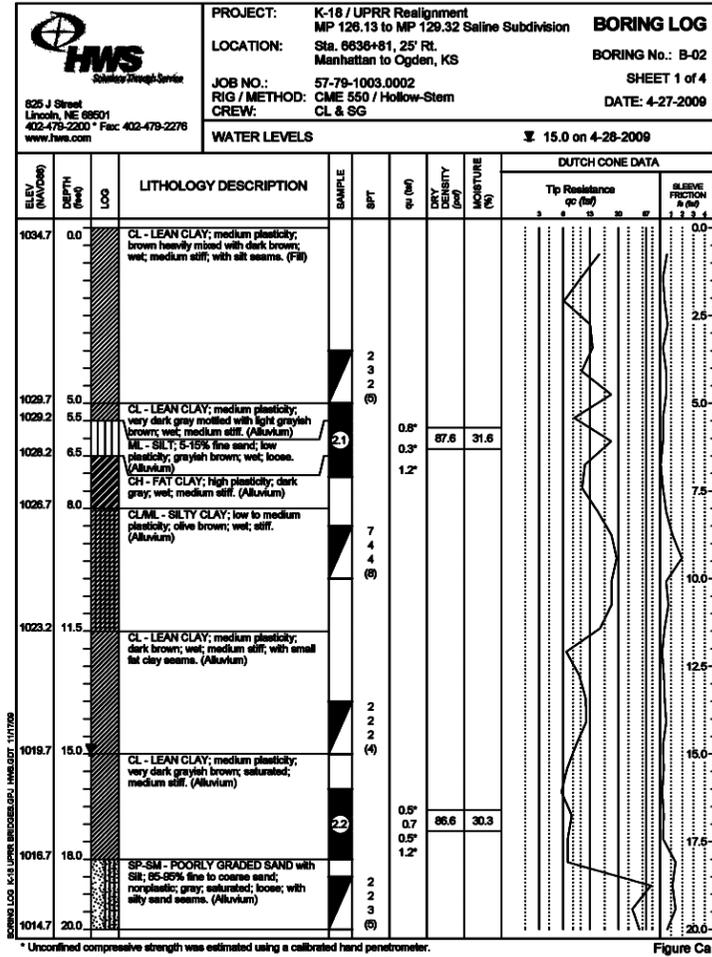
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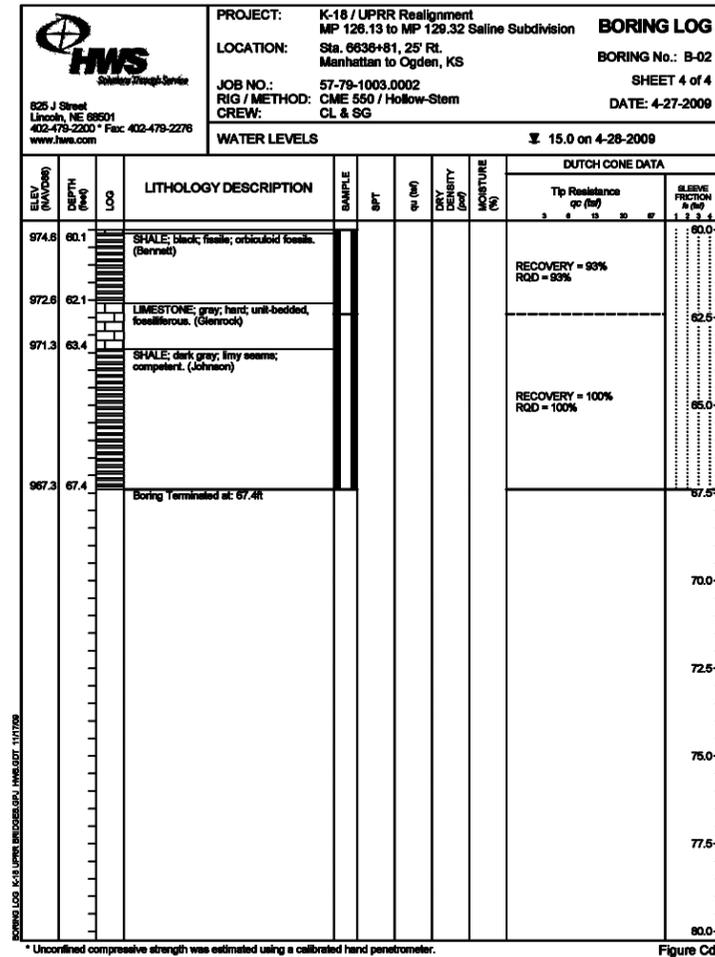
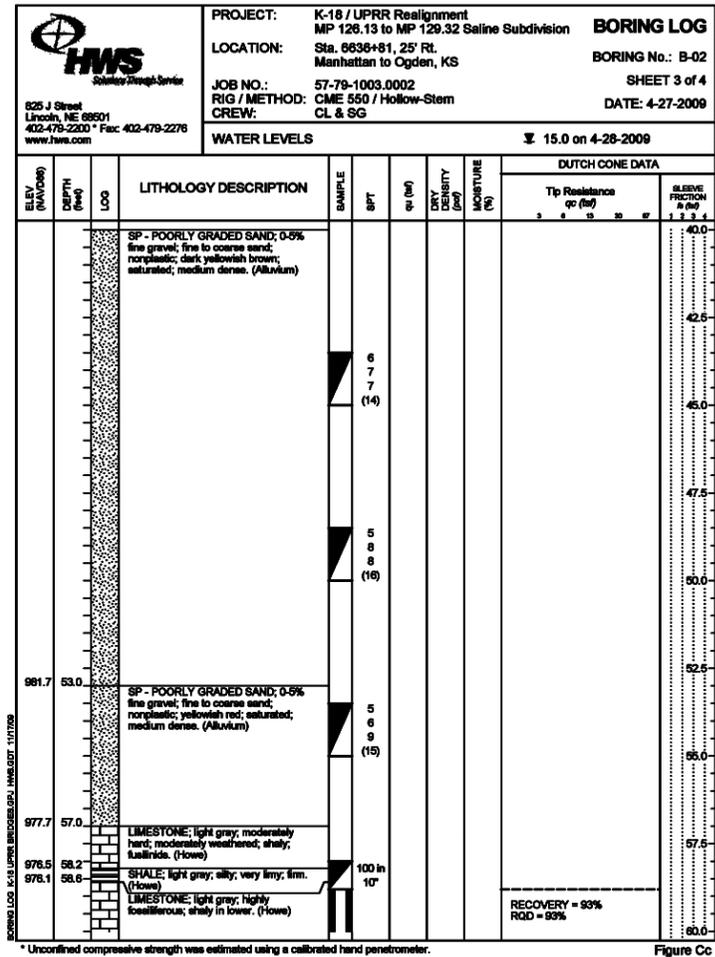


NO.	DATE	REVISIONS
STATE OF KANSAS DEPARTMENT OF TRANSPORTATION		
UNION PACIFIC RAILROAD		
Office of AVP Engineering Design/Construction		
LOCATION:	BR. 126.31	SALINA SUB.
	8.0 MILES WEST OF MANHATTAN,	KS
FACILITY:	5 SPAN PCB x 150' REPLACING 2 SPAN TSG-0D x 28'	
DWG TITLE:	BORING LOG B-02 (1 OF 2)	
PROJECT ID:	ENGINEER:	LATITUDE:
WORK ORDER:	UP - AOS	39° 08' 47.5" N
DESIGN BY:	SG	LONGITUDE:
CHECKED BY:	JCF	96° 38' 53.5" W
DRAWN BY:	CYS	SHEET NO.
CHECKED BY:	JCF	14 of 15
SCALE:	AS SHOWN	C E NUMBER
		118426

*Alan D. Stuts* 4-1-11

APPROVED FOR  
UNION PACIFIC RAILROAD CO.  
BY: SAMAR GOGOI  
DATE: 03/28/11

FILE NAME: P:\ustat\on\gn\sal\126311.bis



*Adam D. Studts* 4-1-11

APPROVED FOR  
 UNION PACIFIC RAILROAD CO.  
 BY: SAMAR GOGOI  
 DATE: 03/28/11

NO.	DATE	REVISIONS
STATE OF KANSAS <b>DEPARTMENT OF TRANSPORTATION</b>		
		
 <b>UNION PACIFIC RAILROAD</b> Office of AVP Engineering Design/Construction		
LOCATION: BR. 126.31		SALINA SUB. 8.0 MILES WEST OF MANHATTAN, KS
FACILITY: 5 SPAN PCB x 150' REPLACING 2 SPAN TSG-0D x 28'		
DWG TITLE: BORING LOG B-02 (2 OF 2)		
PROJECT ID: -- WORK ORDER: -- DESIGN BY: SG CHECKED BY: JCF DRAWN BY: CYS CHECKED BY: JCF SCALE: AS SHOWN	ENGINEER: UP - ADS HNTB - SG	LATITUDE: 39° 08' 47.5" N LONGITUDE: 96° 38' 53.5" W SHEET NO. 15 of 15 C E NUMBER 118426