

GENERAL NOTES

- I. Reference corridor-wide standard drawings for additional information.
- 2. Signing, traffic signals, safety barrier, channelizers, pavement markings, and other items necessary for the upcoming traffic shift shall be in place at the completion of the present stage and prior to commencing the next stage.
- 3. Temporary Concrete Safety Barrier and Inertial Barrier Systems shall be placed as required to limit the length of exposure to dropoffs and other obstructions.
- 4. Existing signs shall be maintained during construction, except as shown in the traffic control plans. Existing signs which are in conflict with the traffic control phases shall be covered.
- 5. Permanent signs shall be installed as early as possible. Any permanent signs which are in conflict with subsequent traffic control phases shall be covered.
- 6. Construction signing that is not in use shall be completely covered or removed from the traveled way.
- 7. Traffic signal heads and traffic signal phasing in conflict with the traffic control configuration shall be covered or adjusted.
- 8. Temporary Concrete Safety Barrier offsets are measured to the traffic face of the barrier, unless otherwise stated.
- 9. Type F Temporary Concrete Safety Barrier may be substituted for Type F3 Concrete Safety Barrier.
- 10. Store all equipment and materials outside clear zone as defined in the AASHTO Roadside Design Guide, 4th Edition with February 2012 Errata. Provide positive protection for all existing and/or proposed structures that fall within the clear zone. Secure Lids, etc. on structures exposed to traffic.
- II. Attach warning lights and flags on all "Construction Action Warning Signs" per Corridor-Wide Standard TE7IO.
- 12. Work zone ingress and egress locations shall be designed to accommodate appropriate acceleration lengths, deceleration lengths, sight distance, and advanced notification so that construction vehicles can safely enter and exit the traffic stream.
- 13. Install KI-104a and KI-105a signs per Standard Drawing TE714, unless otherwise installed in previous segments.
- 14. ABSORB 350 Impact Attenuator per Standard Drawing RD 627B can be used as the temporary inertial barrier system.
- 15. When edge of pavement drop is greater than 2 inch. within the clear zone, shoulder the edge with stable material at 35 degree slope or flatter when construction operations are not ongoing.
- 16. Adjust temporary sign locations to avoid underground utility and drainage conflicts. Maintain minimum sign spacing.

<u>Posted Speeds -</u>

K-IOE Preconstruction Posted Speed - 65 mph K-IOE Temporary Construction Posted Speed - 55 mph

<u>Temporary Design Speed -</u>

K-10E - 65 mph

PHASING

Install Advanced Warning Signs. VMS signs not required.

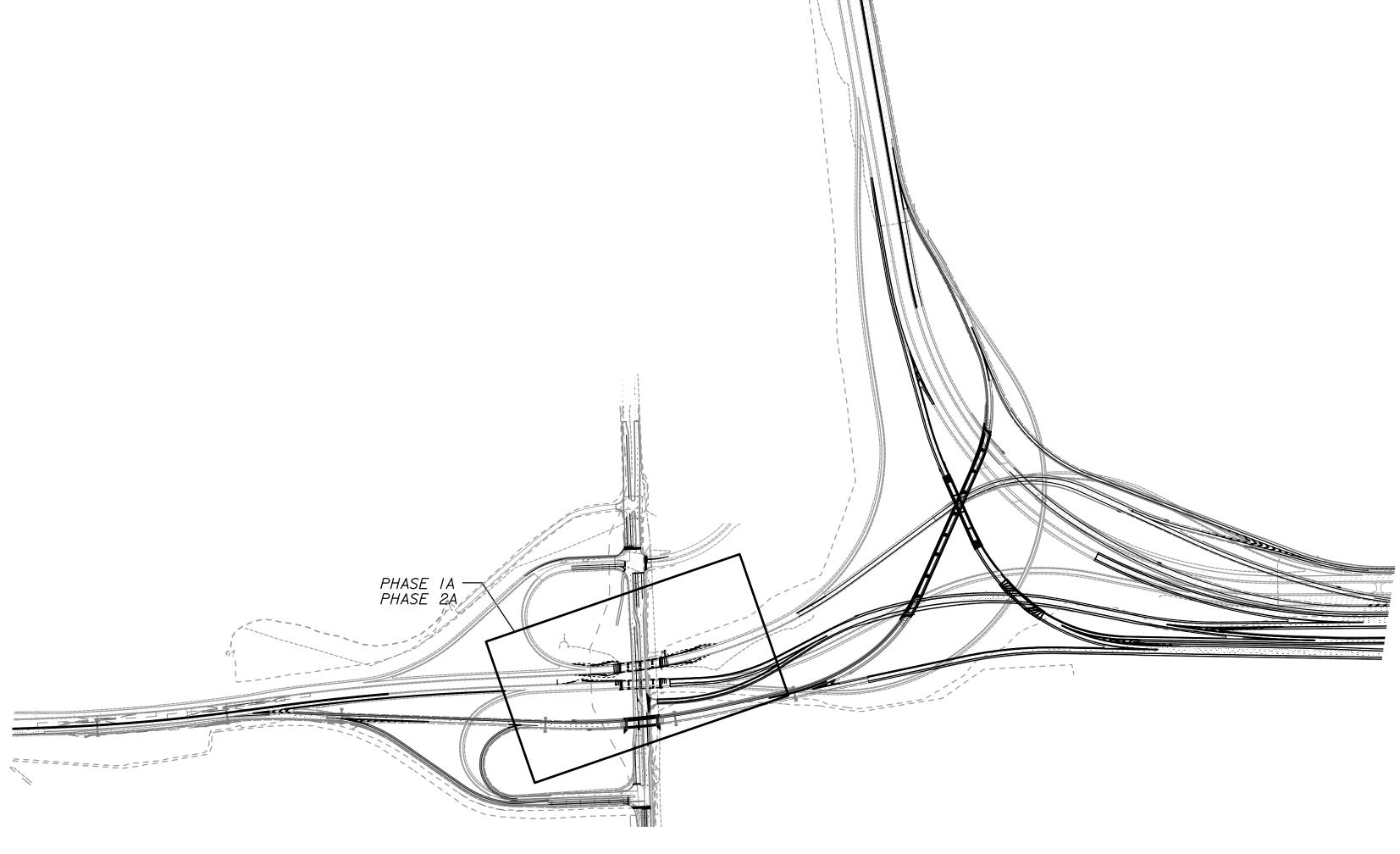
Traffic shifts, temporary concrete safety barrier installation and work performed adjacent to live traffic within the shoulders will be completed during off-peak hours utililizing temporary shoulder and/or lane closures as permitted by Contract (typical for all phases of construction).

<u>Phase IA -</u>

Shift traffic onto southern half of Bridge RE-10 and perform work on 27' portion of bridge.

Phase 2A -

Shift traffic onto northern half of Bridge RE-10 and perform work on 27' portion of bridge. Upon completion of Bridge RE-10, return striping along K-10E to the proposed striping configuration as part of Segment 5B.



KEY MAP

GATEWAY
INTERCHANGE
CONSTRUCTORS

Released for Construction

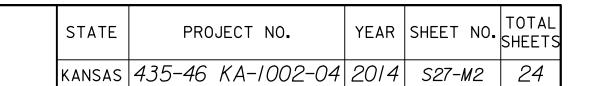
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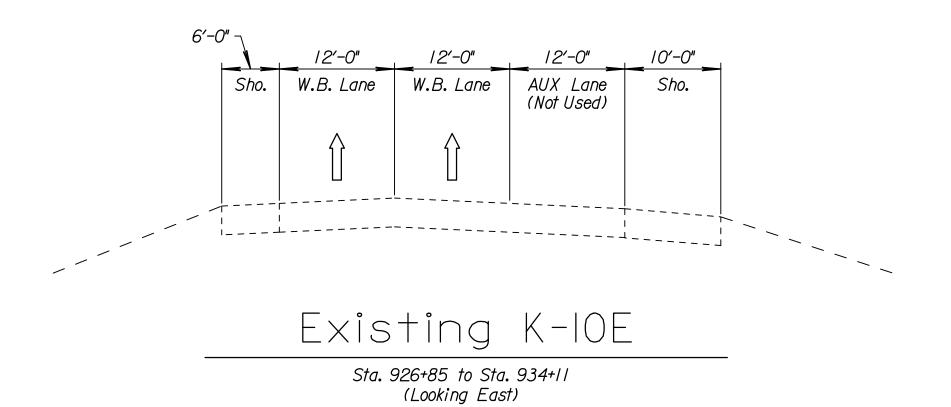
Date: 01/28/2015
GIC Version 0.0
RFC'd by: Document Control
Package Submittal: RFC Package S27-Seg 8

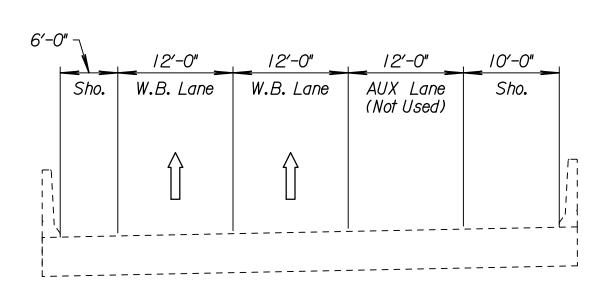
KANSAS DEPARTMENT OF TRANSPORTATION
S27 BRIDGE RE-10 REHAB
KIOEB OVER RENNER BLVD.
GENERAL NOTES

PIN: S27

KDOT Graphics Certified 01-12-2015 Sh. No. S27-N

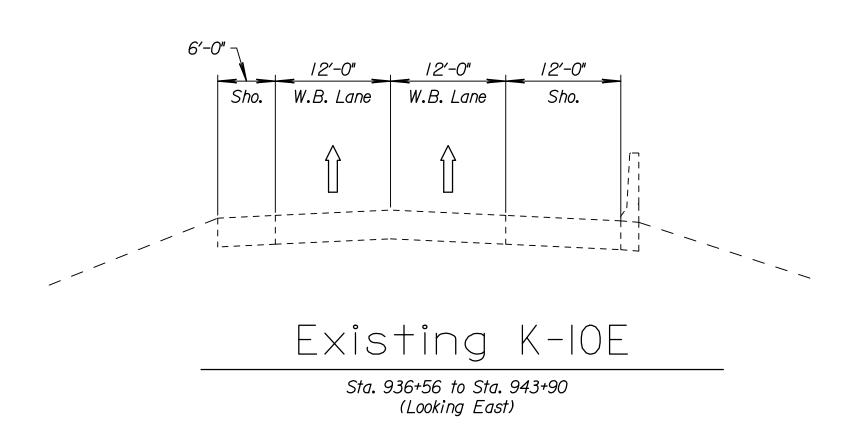


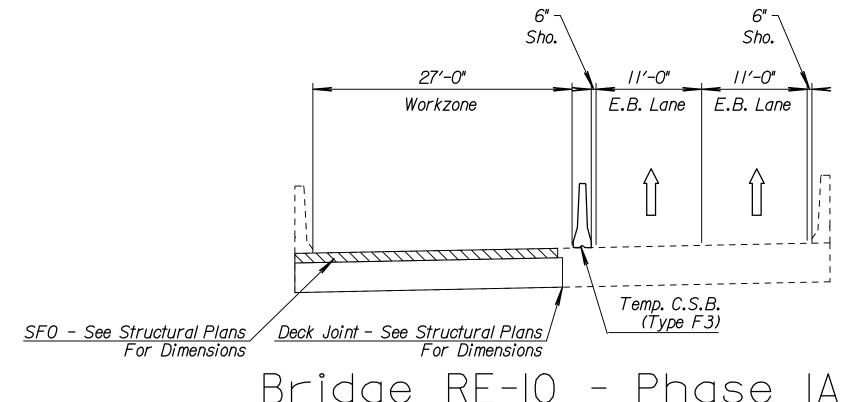




Existing Bridge RE-10 K-10E Over Renner Blvd.

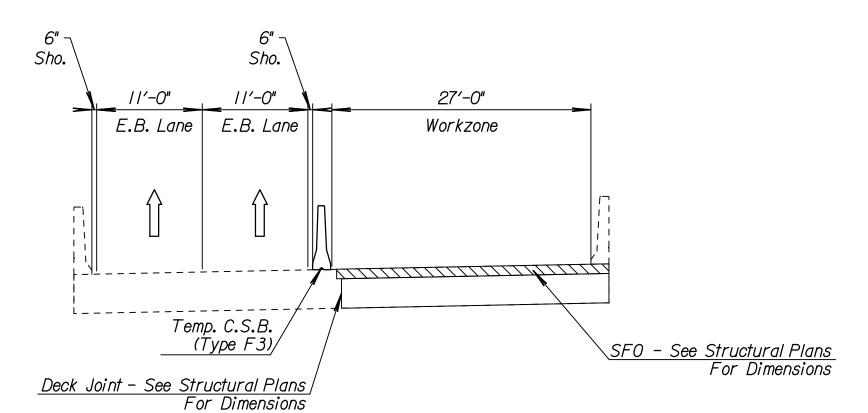
Sta. 934+11 to Sta. 936+56





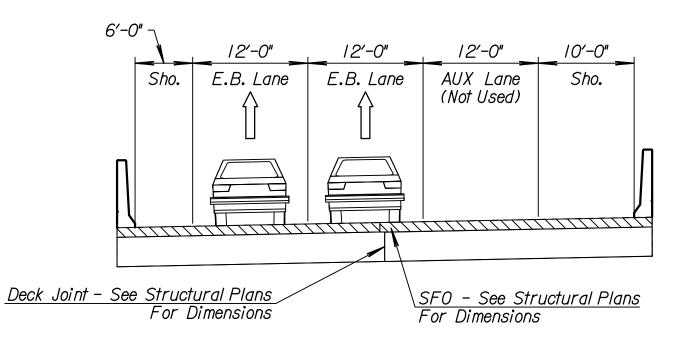
Bridge RE-10 - Phase IA K-10E Over Renner Blvd.

> Sta. 934+II to Sta. 936+56 (Looking East)



Bridge RE-10 - Phase 2A K-10E Over Renner Blvd.

> Sta. 934+11 to Sta. 936+56 (Looking East)



Bridge RE-10 - Final Condition K-10E Over Renner Blvd.

Sta. 934+11 to Sta. 936+56 (Looking East)

PIN: S27



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Date: 01/28/2015
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RFC'd by: Document Control
Package Submittal: RFC Package S27-Seg 8

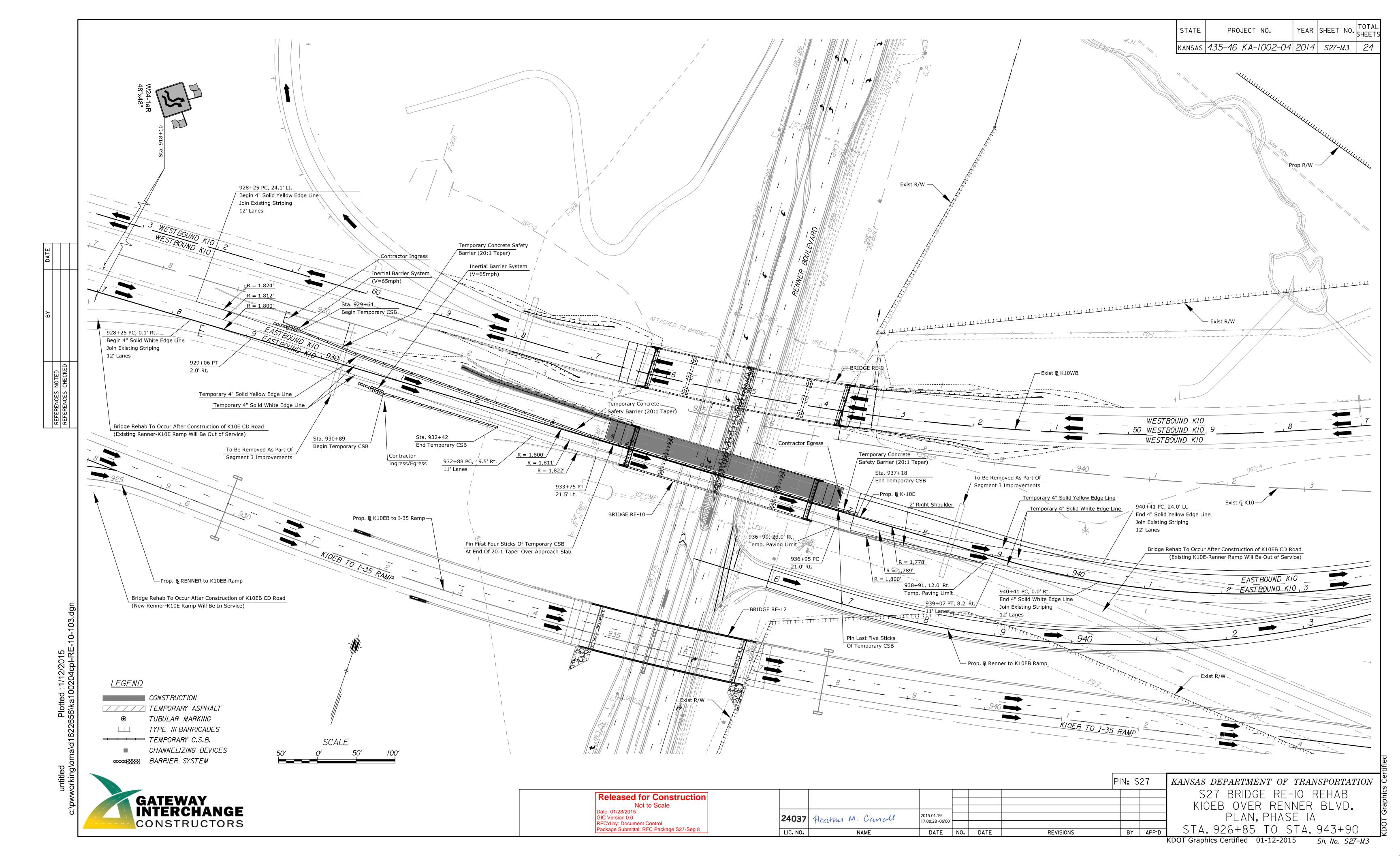
KANSAS DEPARTMENT OF TRANSPORTATION

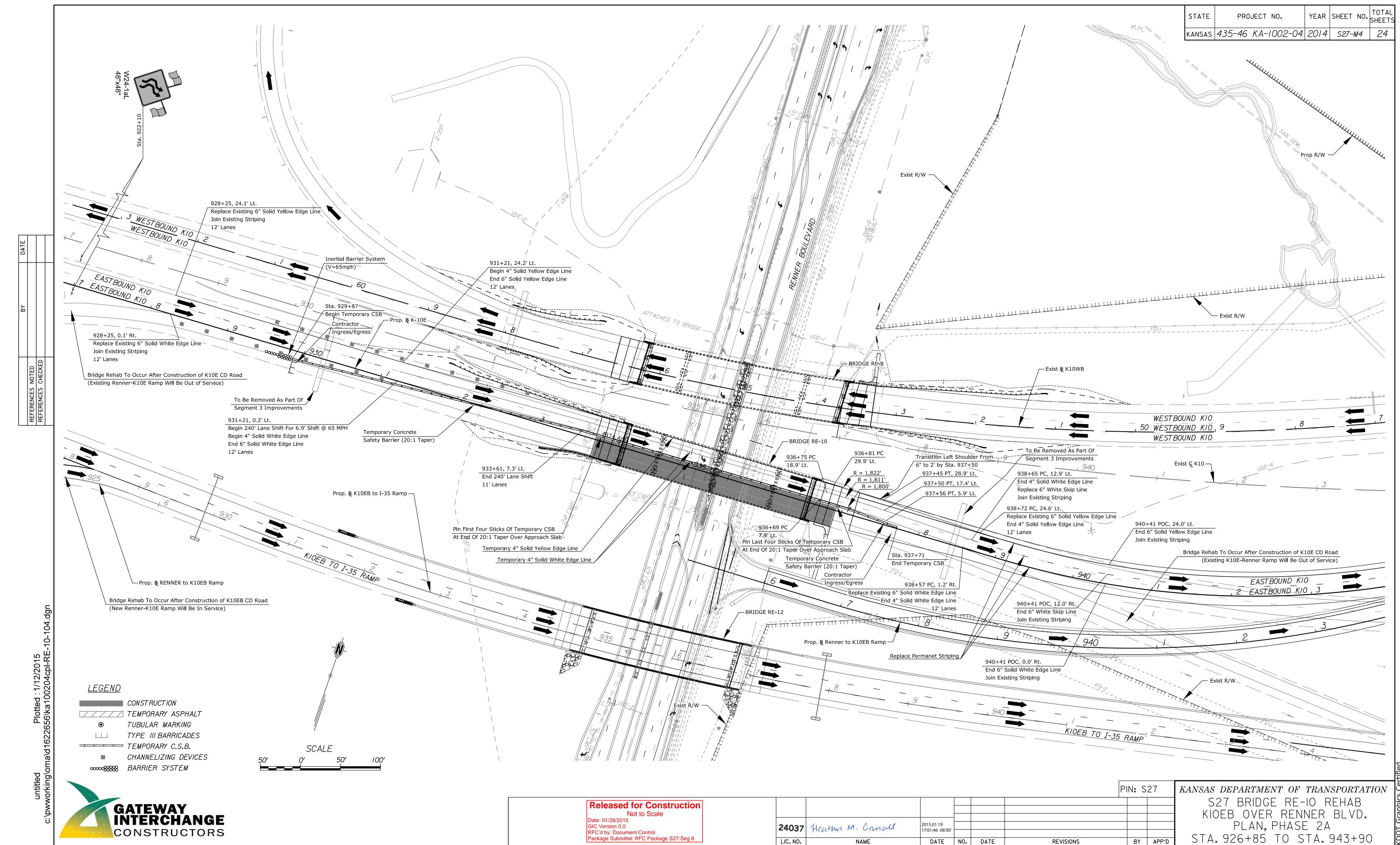
S27 BRIDGE RE-IO REHAB

KIOEB OVER RENNER BLVD.

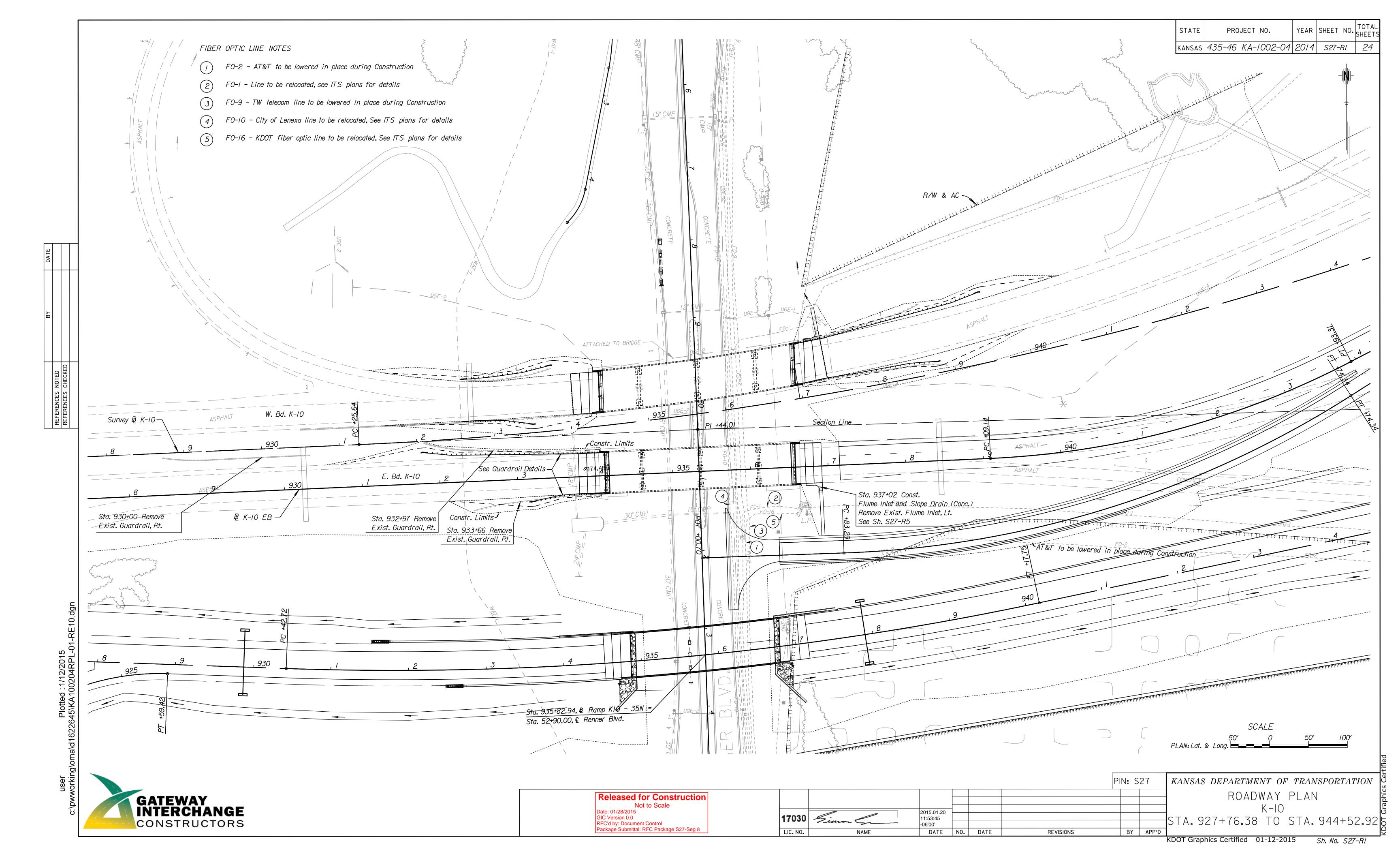
TYPICAL SECTIONS

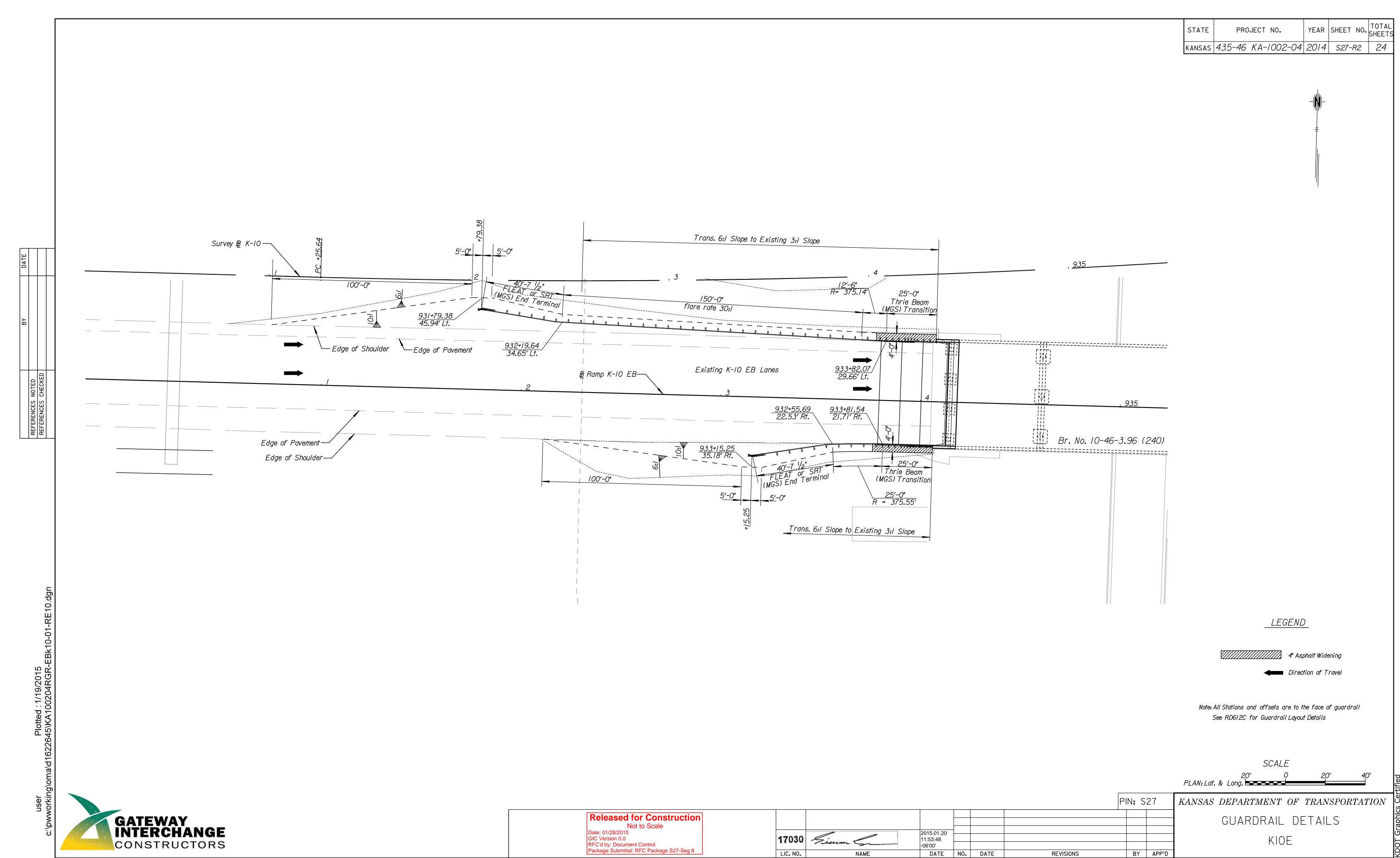
PHASE IA & 2A



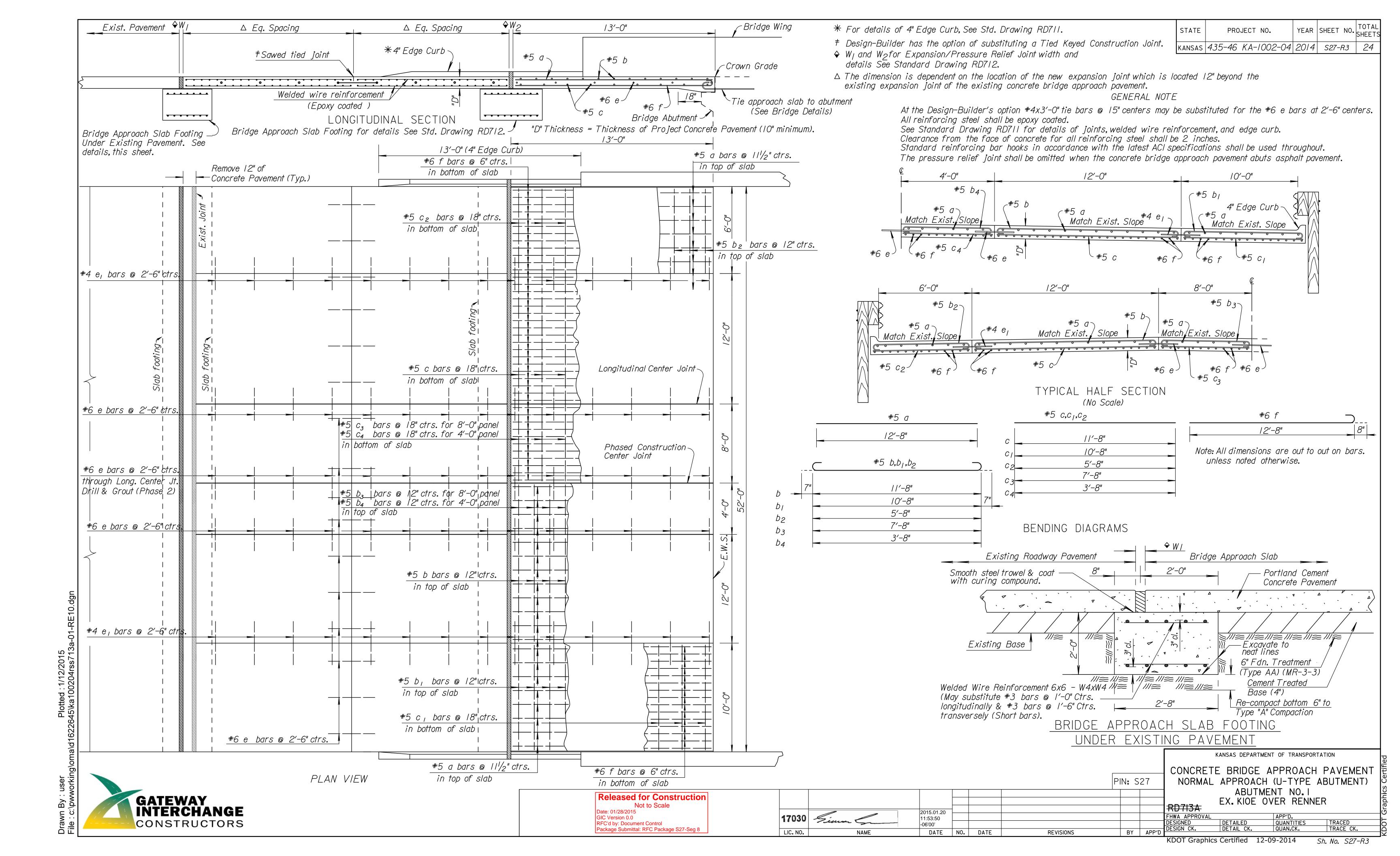


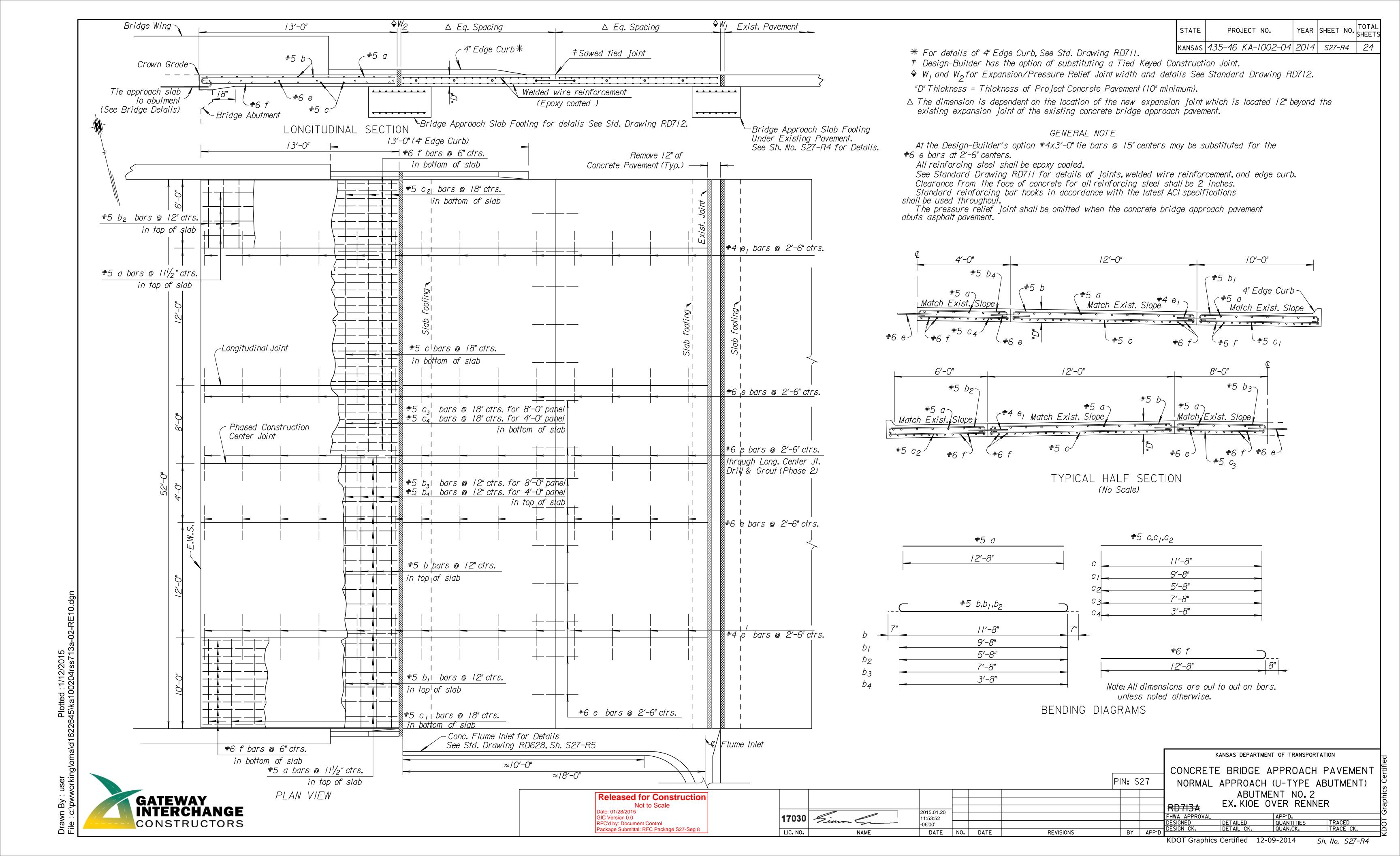
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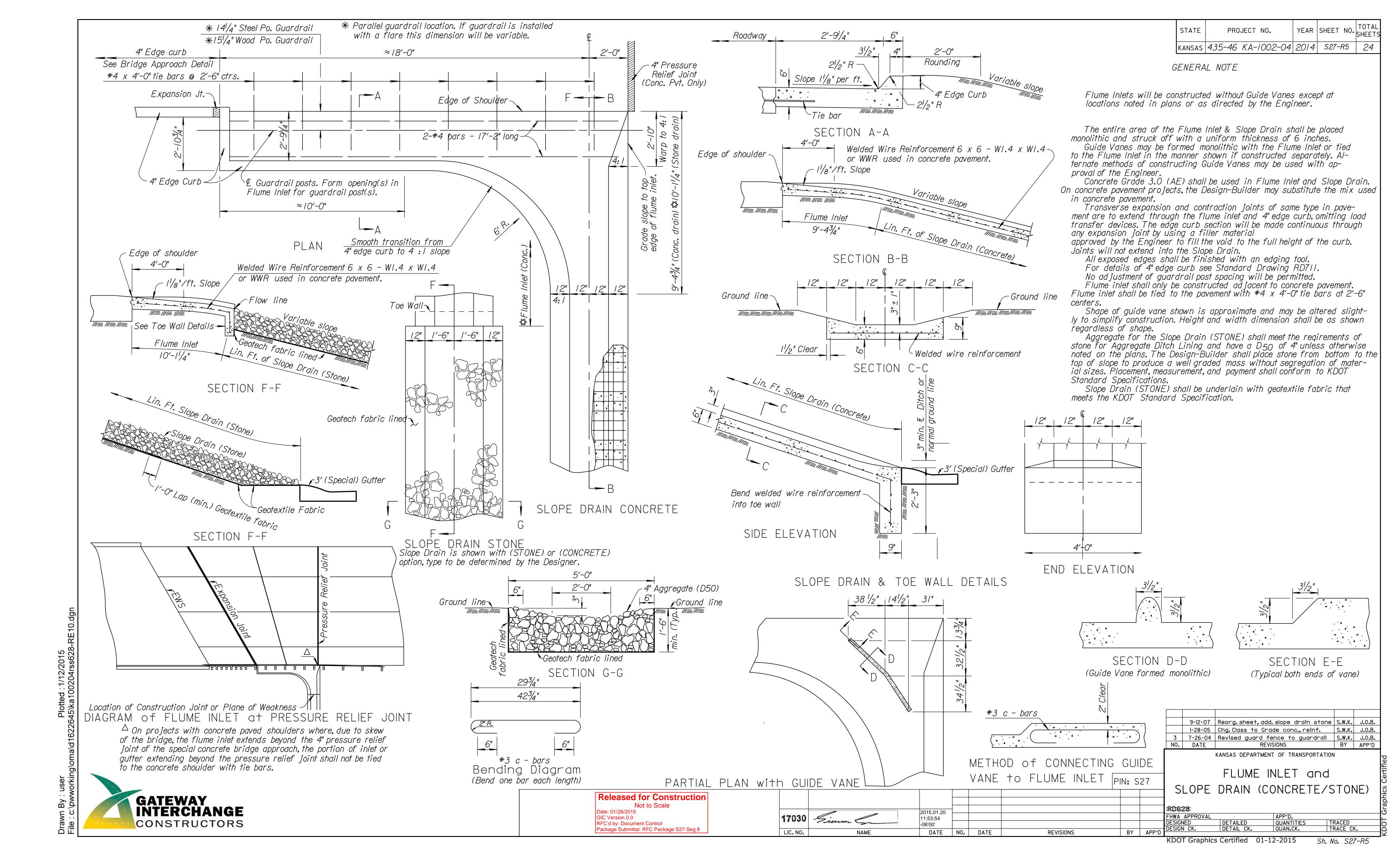




KDOT Graphics Certified 12-08-2014







DEPARTMENT OF TRANSPORTATION

KDOT PROJECT NO. 435-46 KA-1002-04

27 — IFC SUBMITTAL

INDEX OF SHEETS

SOI Title Sheet
SO2 Signature Seal Sheet
SO3 General Notes
SO4 Construction Layout
SO5 Removal Details
SO6 Abutment Details
SO7 Bridge Deck Details
SO8 Barrier Details
SO9 Auxiliary Barrier Details

SIO Deck Patching and Overlay Details
SII Miscellaneous Repair Details
SI2 Bill of Reinforcing Steel & Bending Diagrams

S27-RI - S27-R5 Roadway Plans S27-XI - S27-X2 Roadway Cross-Sections S27-MI - S27-M4 Maintenance of Traffic Plans S27-EI Erosion Control Plans

SOI Title Sheet SO2 Signature Seal Sheet SO3 General Notes SO4 Construction Layout

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

FEDERAL AID PROJECT
JOHNSON COUNTY
I-435 - I-35 - K-10

MS00 SHEETS TO BE REFERENCED

CWS04 Bridge Berm and Slope Protection U-Type Abutment
CWS05 Bridge Excavation (LRFD)
CWS07 Abutment Aggregate Drain-U-Type Abutment
CWS13 Supports and Spacers for Reinforcing Stee
CWS29.003 End of Wing and Bridge Barrier Details

ROADWAY STANDARDS

RD620 Inertial Barrier (TL2 or TL3)

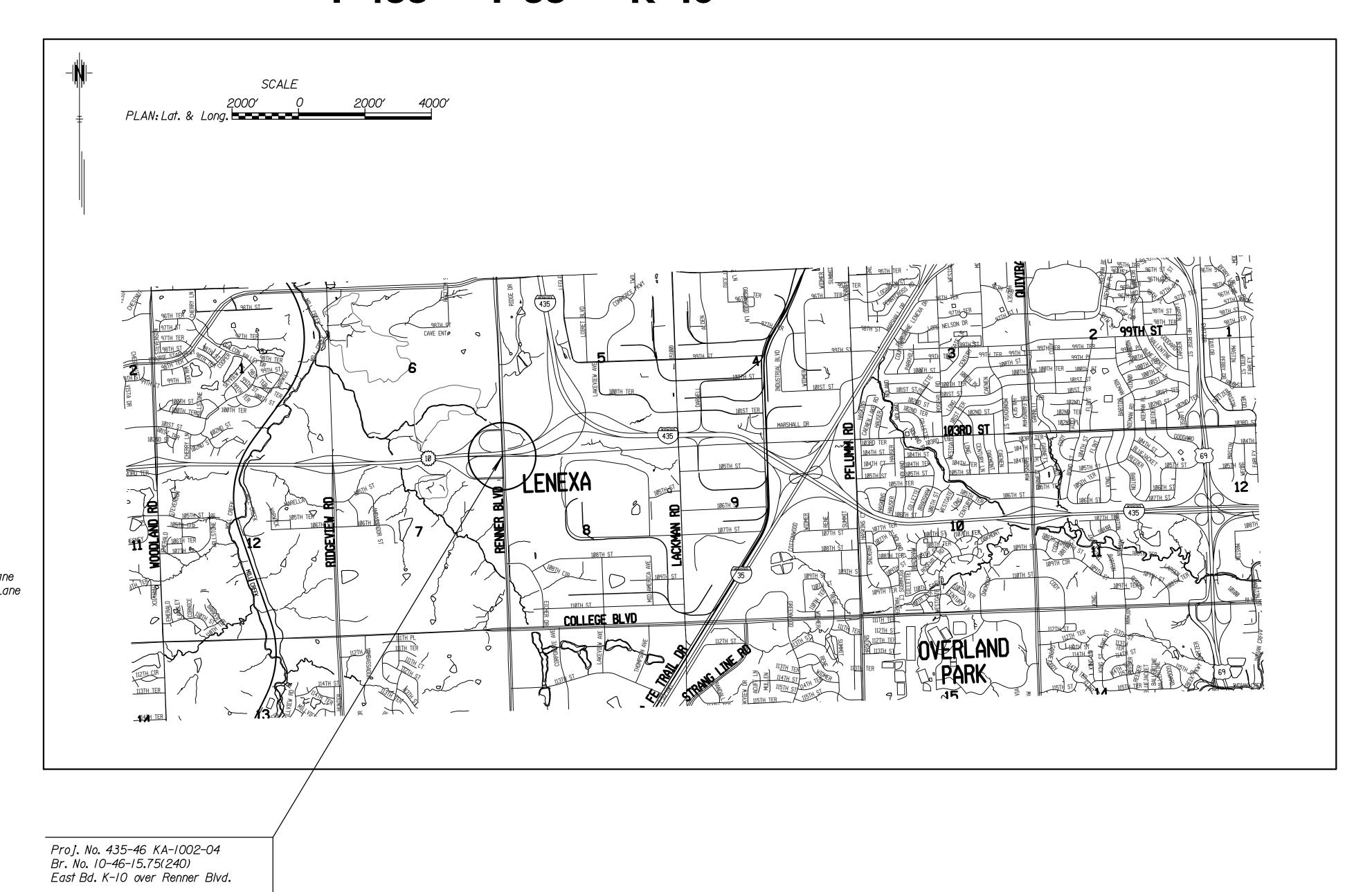
RD622 Temporary Concrete Safety Barrier Type F3 RD622B Temporary Concrete Safety Barrier Type F3 Anchorage RD622C Temporary Concrete Safety Barrier Type F3 Anchorage at Expansion Jt. RD622D Temporary Concrete Safety Barrier Type F3 Transition layouts RD599 Placing Select Soil RD599A Salvaged Topsoil RD606E Guardrail End Terminal (MGS-FLEAT) Flared RD610 Marker Details for Guardrail and Bridge Rails RD611A Guardrail Post (MGS) Details RD612C Guardrail (MGS) Typ. Alignments Thrie Beam (Flared) RD613A Guardrail, Transition Details of Thrie Beam (MGS) RD614A Guardrail, at Roadside Obstacle (MGS) (Flared) Pavement, Concrete, Misc. Details for Bridge Appr. RD712 Pvmt. Expansion Jt. Det. (Br. Appr. Slabs) RD735 Expansion Joint & Contraction Dowel Assemblies TE700 General Traffic Control Channelizing Devices TE704 Typical Traffic Control, Road Closures Traffic Control Signs *TE710* Approved Temporary Post Setup TE712 Ground Mounted Details for KI-104a and KI-105a Signs Typical Traffic Control Work on or Near Shoulder Undivided Highway (2 or 4 Lane) TE720 Typical Traffic Control, Shoulder Work, Divided Highway TE722 Typical Traffic Control, 4-Ln Divided Roadway One Roadway Closed Crossover From Left Lane Typical Traffic Control, 4-Ln Divided Roadway One Roadway Closed Crossover From Right Lane

LA852A Curb Inlet Protection Drop Inlet Protection
LA852C Silt Fence Slope Barriers Biodegradable Log Slope Barriers
LA852D Ditch Checks
LA852E Rock Ditch Checks Biodegradable Log Ditch Checks
LA825G

Temporary Concrete Traffic Barrier Type F Temporary Concrete Traffic Barrier Type F Temporary Concrete Traffic Barrier Type F

Temporary Concrete Traffic Barrier Type F Temporary Erosion and Pollution Control

Typical Traffic Control, 4-Ln Roadway, One Lane Closed



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Date: 01/28/2015
GIC Version 0.0
RFC'd by: Document Control
Package Submittal: RFC Package S27-Seg 8

DS03 DS04

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GATEWAY INTERCHANGE CONSTRUCTORS	
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Date: 01/28/2015
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Package Submittal: RFC Package S27-Seg 8

EASTBOUND K-IO OVER RENNER BLVD.

(RE-IO)

Johnson C PIN: S27 SHEET NO. OF SCALE
DESIGNED DETAILED
DESIGN CK. DETAIL CK. LIC. NO. NAME DATE NO. DATE REVISIONS BY APP'D

KDOT Graphics Certified 24 Nov 14

EXAMPLE 15.75(240) EXAMPLE 15.75(240)

SIGNATURE SEAL SHEET

APP'D QUANTITIES QUAN. CK.

Sheet No. S02

CADD CK.

Johnson Co.

GENERAL NOTES

- BRIDGE BACKWALL PROTECTION SYSTEM: See the General Notes on the "Abutment Aggregate Drain" sheet.
- BACKFILL COMPACTION: Compact backfill at the abutments and wingwalls.
- CONCRETE: Superstructure concrete is Concrete (Grade 4.0)(AE) (SA). Substructure concrete is Concrete (Grade 4.0)(AE). Bevel all exposed edges of all concrete with a $\frac{3}{4}$ inch triangular molding, except as otherwise noted on the plans. Construction joints are optional with the Contractor, but if used, place only at locations shown, or at locations approved by the Engineer.
- REINFORCING STEEL: All reinforcing steel dimensions are to the centerline of bars unless otherwise noted. All reinforcing steel shall conform to the requirements of ASTM A615, Grade 60. Where noncoated bars come in contact with epoxy coated bars, they need not be coated. All reinforcing steel in the abutment, wingwalls, slab and barrier shall be epoxy coated.
- EXISTING STRUCTURE: Plans of the existing structure are on file and available for inspection at the State Bridge Office, KDOT, Eisenhower State Office Building, 700 SW Harrison, Topeka, KS.
- EXISTING DIMENSION VERIFICATION: Dimensions of the existing structure are based on old plans. Verify, by field measurement, the as-built dimensions of the existing structure and submit such verification in writing to the Engineer. The verification will include sketches, drawings, photographs and descriptions as needed to clearly define the as-built dimensions that will be incorporated in the new construction.
- REINFORCING STEEL SPLICERS: All reinforcing steel splicers and their ad joining bars shall be epoxy coated. The splicer threads shall be protected at all times. The splicers shall be approved screw type mechanical coupler and can be Dayton/Richmond DB-SEA Splicers or approved equals.
- TEMPORARY SHORING: Maintain the temporary shoring until the Engineer authorizes its removal. The temporary shoring plans are to be designed and sealed by a registered Professional Engineer. Submit design calculations and shoring plans to the Field Engineer for review 6 weeks before work is scheduled to begin. Work shall not begin until the Engineer grants approval.
- MACHINE PREPARATION: See the General Notes on the "Bridge Deck" Patching and Overlay Details" sheet.
- PORTLAND CEMENT CONCRETE OVERLAY: Place 2.25 inch Silica Fume Overlay over the entire deck surface as shown on the plans.
- AREA PREPARED FOR PATCHING: See the General Notes on the "Bridge" Deck Patching and Overlay Details" sheet.
- FULL DEPTH PATCHING: See the General Notes on the "Bridge Deck" Patching and Overlay Details" sheet.
- EPOXY BONDING AGENT: Coat vertical concrete surfaces in full depth patches and other noted locations with an approved epoxy bonding agent in accordance with the manufacturer's recommendations.

GATEWAY

INTERCHANGE

CONSTRUCTORS

- BROKEN CONCRETE: Waste the broken concrete from the existing bridge on sites provided by the Contractor and approved by the Engineer.
- DRILLING AND GROUTING: This item shall consist of grouting reinforcing steel, anchor bolts, tie bars, or dowel bars into the existing concrete, where required by the Engineer, with an epoxy grout. Follow KDOT Specifications 842 and any associated Special Provisions. Follow the manufacturer's directions for mixing, application and curing. Locate existing reinforcing steel with a pachometer prior to drilling.
- REMOVAL OF EXISTING STRUCTURE: Clearly mark the location of the existing girder top flanges on top of the existing deck concrete within the removal limits before sawing or removing any concrete. Concrete sawing shall be limited to a maximum depth of 3 inches directly above any girder and within 3 inches of either edge of girder top flange. Do not use drop-type pavement breakers. Do not use a hoe ram directly above any girder or within I'-O" of either edge of a girder top flange. Use a jackhammer no heavier than 15 lb. to remove concrete above and within I'-O" of either side of a girder top flange.

Damage to the existing structural steel caused by procedures not conforming to the above recommendations shall be repaired as directed by the Engineer at the Contractor's expense (no cost to the State). Any costs incurred for testing or Engineering evaluations will be included in the Contractor's expense for repair.

All material removed from the existing structure shall become the property of the Contractor and removed from the site.

- DIMENSIONS: All dimensions shown on the design plans are horizontal dimensions unless otherwise noted. Make necessary allowances for roadway grade and cross slope.
- UTILITIES: Existing plans show phone conduits attached to the bridge. Field verify locations of all utilities attached to the bridge prior to the start of construction. Care shall be taken to avoid damage to existing utilities or their conduit encasements. Damage to existing utilities shall be repaired at the Contractor's expense.
- TEMPORARY CONSTRUCTION LOADS: The Contractor will not stock pile construction materials, debris/rubble or place equipment weighing more than 20 tons or greater than bridge posted load limits on the bridge without prior written approval by the Engineer. For bridges with highway traffic on or under the bridge the Contractor will provide plans showing the location, quantity and weight of the proposed materials, debris or equipment weighing more than 20 tons or areater than bridge posted load limit. These plans will bear the Seal of the Contractor's Engineer before approval is granted. The Contractor's Engineer will use AASHTO Specifications for limitations on structural capacities, as the structure is found in the field.
- BRIDGE DECK TINING: Transversely tine the deck in accordance with Contract Specifications. For phased construction tine each completed phase before opening for traffic. Align the tines from each adjacent phase across the bridge deck without jogs or discontinuities. For skewed bridges all tining shall be perpendicular to the centerline of the bridge.
- TEMPERATURE: The design temperature for all dimensions is 60 F.
- BRIDGE DRAINS: All bridge drains shall be cleaned and free of debris or obstructions.

STAT	Έ	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANS	AS	435-46 KA-1002-04	2014	S03	24

	BRIDGE SHEETS
Sheet No.	Drawing
S03	General Notes
<i>S04</i>	Construction Layout
<i>S05</i>	Removal Details
<i>S06</i>	Abutment Details
<i>S07</i>	Bridge Deck Details
S08	Barrier Details
S09	Auxiliary Barrier Details
S10	Deck Patching and Overlay Details
SII	Miscellaneous Repair Details
SI2	Bill of Reinforcing Steel & Bending Diagrams

	MS00 SHEETS TO BE REFERENCED
Sheet No.	Drawing
CWS04	Bridge Berm and Slope Protection U-Type Abutment
CWS05	Bridge Excavation (LRFD)
CWS07	Abutment Aggregate Drain-U-Type Abutment
CWS/3	Supports and Spacers for Reinforcing Steel
CWS29.003	End of Wing and Bridge Barrier Details

BRIDGE PAINTING: Paint structural steel to the limits shown on the plans of the existing structure in conformance with the KDOT Specifications.

The structural steel has a paint history of:

- 1) Original paint system: Inorganic Zinc Vinyl (Date: 1981)
- 2) Repaint system: N/A
- 3) TCLP value is: N/A (No Lead Paint)
- 4) The mass of existing bridge steel is 157.4 Tons
- PAINTING: The field coats applied to Structural Steel shall conform to an organic zinc primer with a waterborne acrylic finish coat. The finish coat will be Kansas (Green), this color will match Federal Standard #34102.

Blast clean all sufaces of existing steel to be painted to SSPC-SP6 and apply a 3 mil prime coat of an approved organic zinc primer. Apply the finish coat to all steel surfaces to be painted except the top of the top flanges.

SLOPE PROTECTION (Aggregate): Remove the existing reinforced concrete rip-rap slope protection and place Slope Protection (Aggregate) to the limits and thicknesses shown on the plans or as directed by the Enaineer. Areas that have eroded or settled shall be backfilled with soil and brought back to grade before placing Slope Protection(Aggregate).

DESIGN DATA

DESIGN SPECIFICATIONS:

Zing Aord

NAME

3938

LIC. NO.

AASHTO Specifications, 2002 Edition and latest Interim Specifications. Load Factor Design.

UNIT STRESSES:

Concrete (Grade 4.0)(AE) f'c = 4 ksiConcrete (Grade 4.0)(AE)(SA) f'c = 4 ksiReinforcing Steel (Grade 60) (Epoxy Coated) fy = 60 ksi

DATE NO. DATE

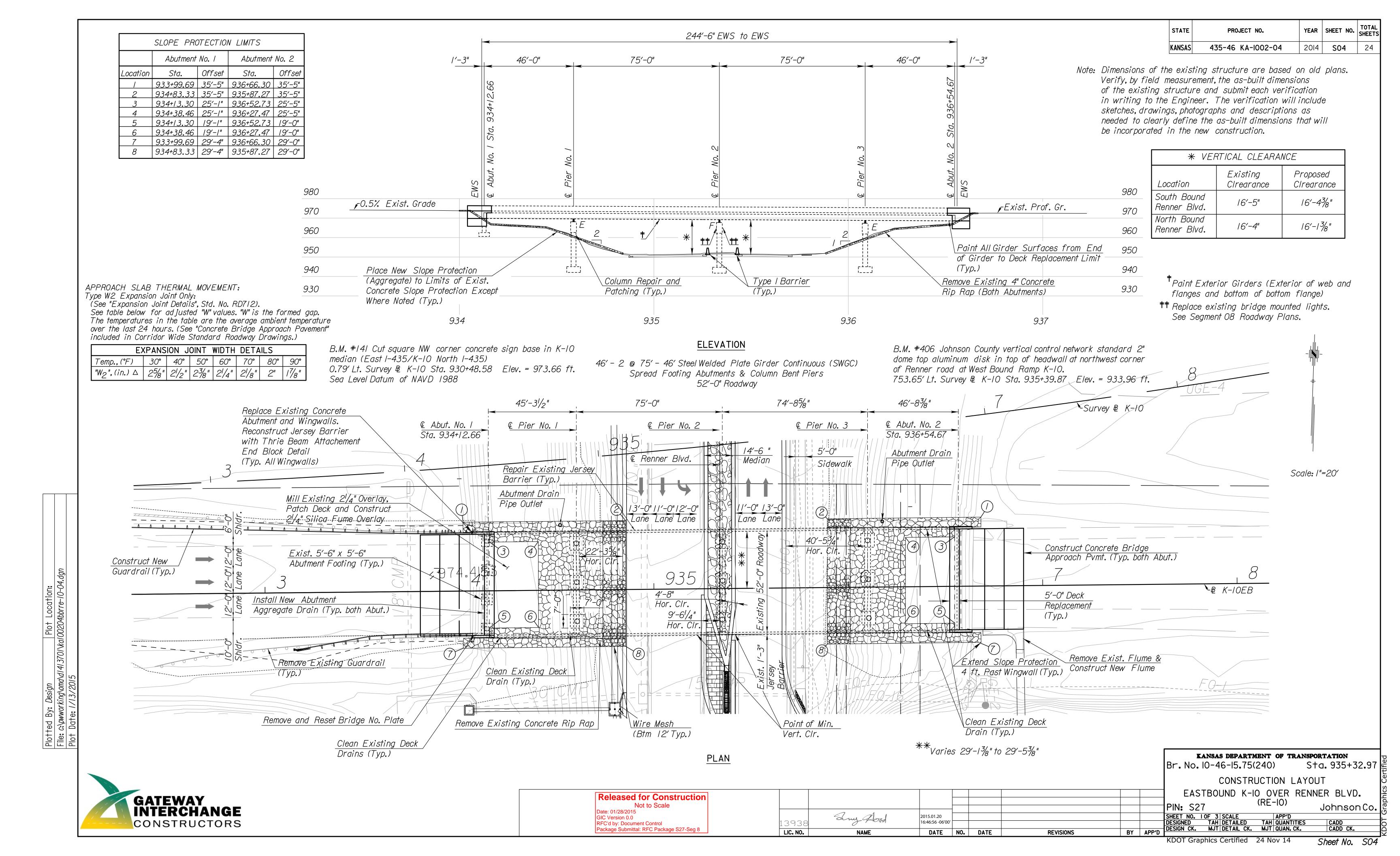
KANSAS DEPARTMENT OF TRANSPORTATION Br. No. 10-46-15.75(240) S†a. 935+32.97 崖 GENERAL NOTES EASTBOUND K-IO OVER RENNER BLVD.

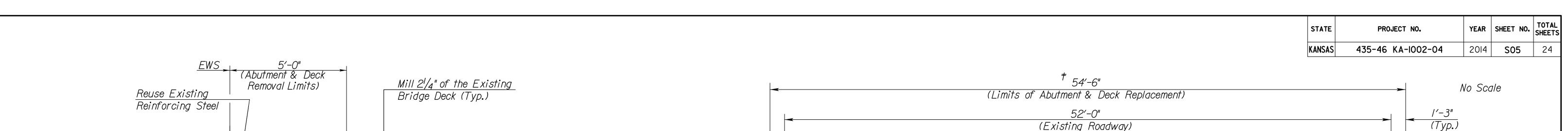
(RE-IO) **PIN: S27** Johnson Co. 🙎 SHEET NO. OF SCALE APP'D
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DESIGN CK. MJT DETAIL CK. MJT QUAN. CK. CADD CK.

Released for Construction Not to Scale Date: 01/28/2015 GIC Version 0.0 RFC'd by: Document Control
Package Submittal: RFC Package S27-Seg 8

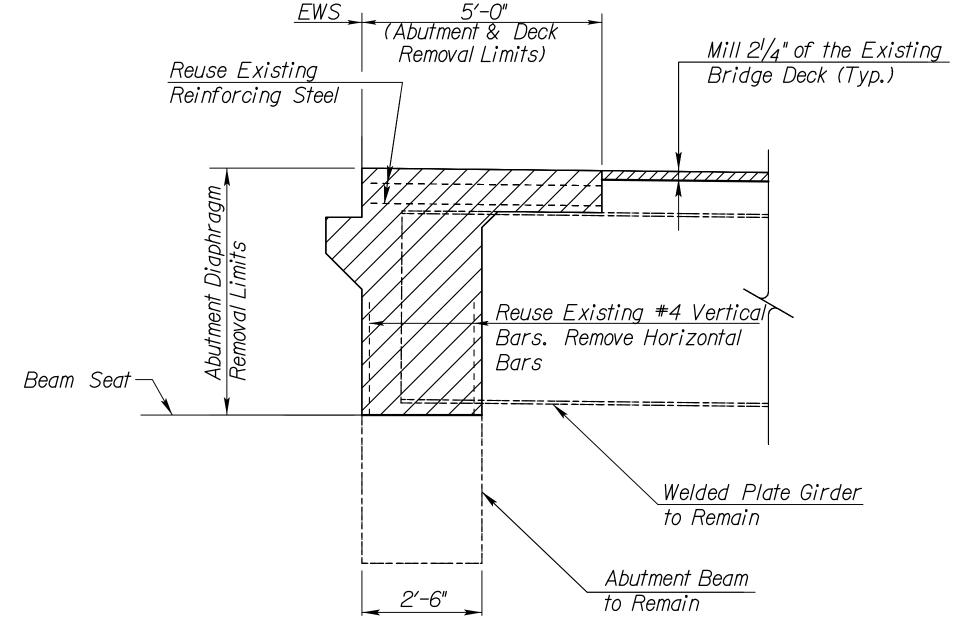
BY APP'D

REVISIONS



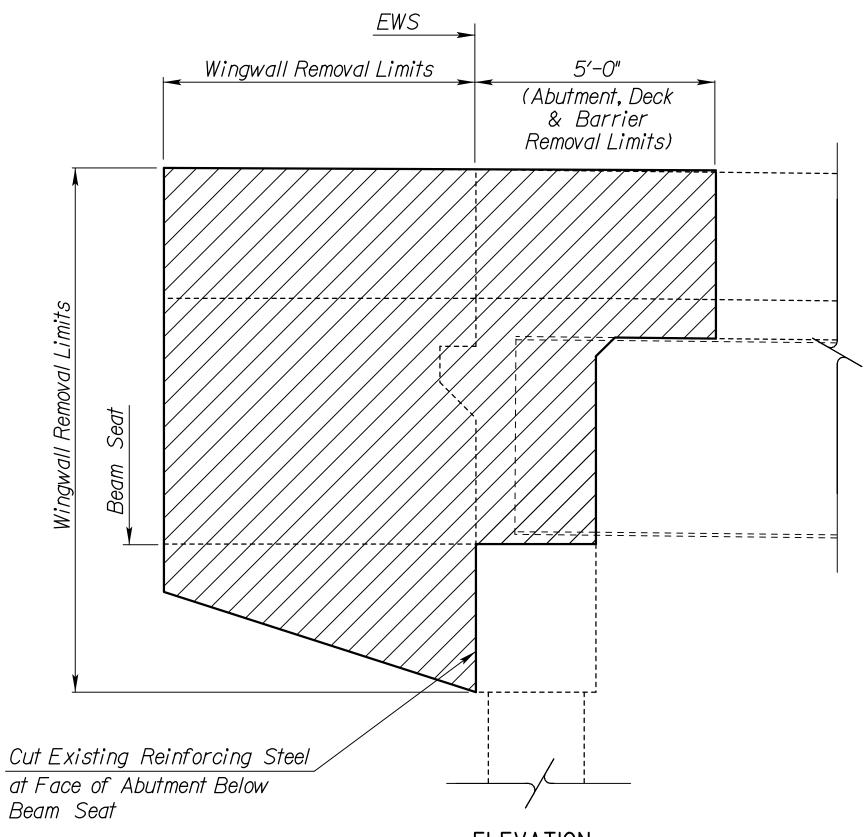


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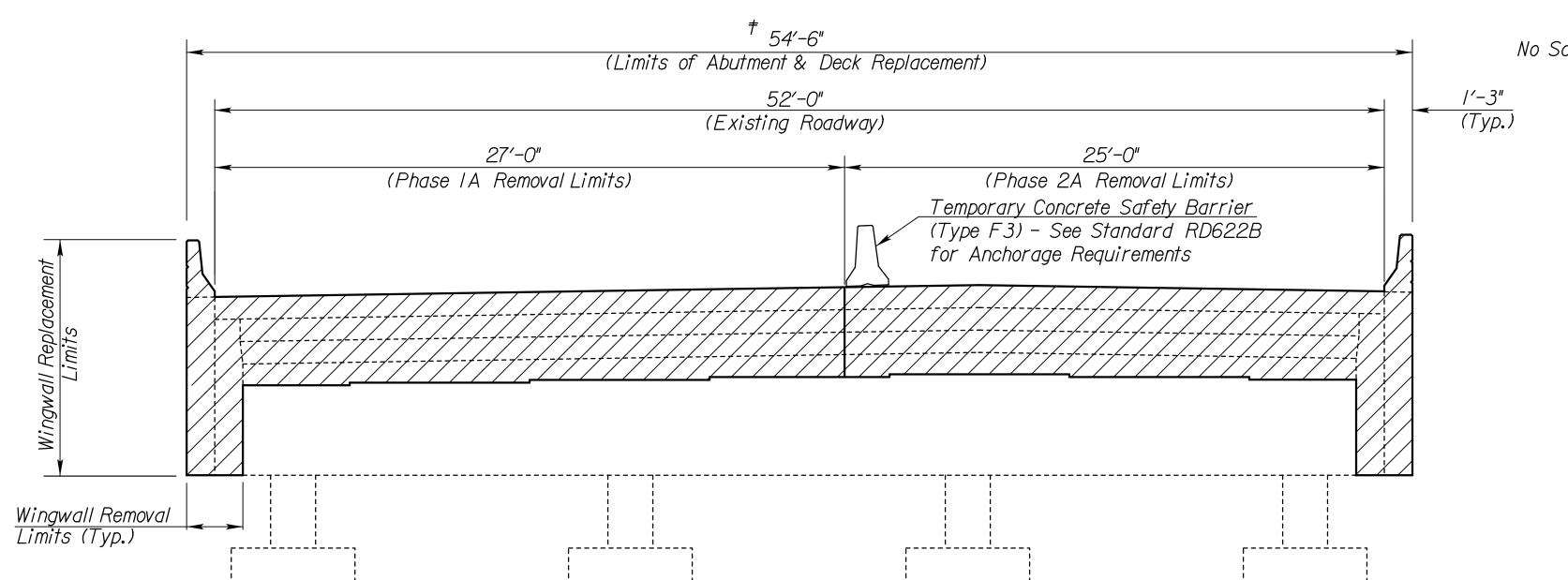


ABUTMENT SECTION

(Abutment No. 1 Shown, Abutment No. 2 Similar)



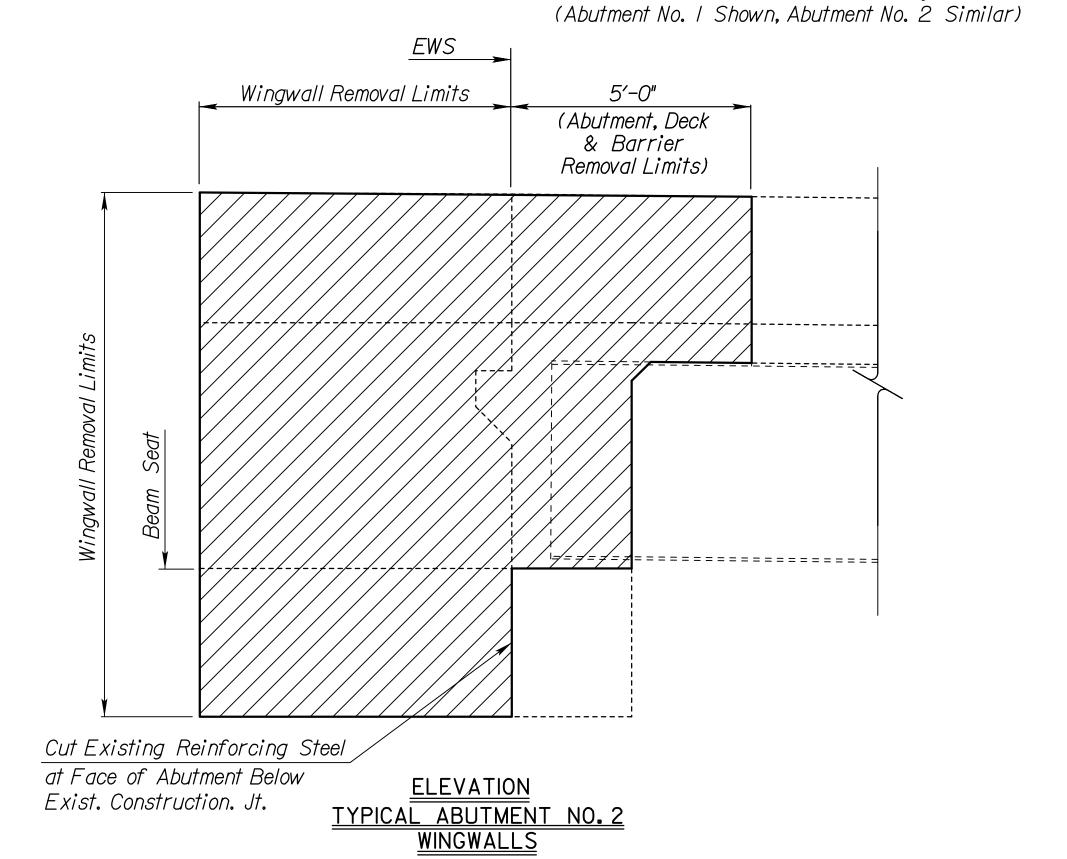
ELEVATION TYPICAL ABUTMENT NO. I
WINGWALLS



ELEVATION ABUTMENT NO. I

(Looking East) (Girders not shown for clarity)

[†] Measured along ℚ Abutment



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GATEWAY INTERCHANGE CONSTRUCTORS

Released for Construction Not to Scale Date: 01/28/2015 Ting Food GIC Version 0.0 13938 16:55:48 -06'00' RFC'd by: Document Control Package Submittal: RFC Package S27-Seg 8 LIC. NO. NAME DATE NO. DATE **REVISIONS**

KANSAS DEPARTMENT OF TRANSPORTATION S†a. 935+32.97 🖺 Br. No. 10-46-15.75(240)

REMOVAL DETAILS EASTBOUND K-IO OVER RENNER BLVD.

(RE-IO)

Johnson (PIN: S27 Johnson Co.

SHEET NO. 2 OF 3 SCALE APP'D

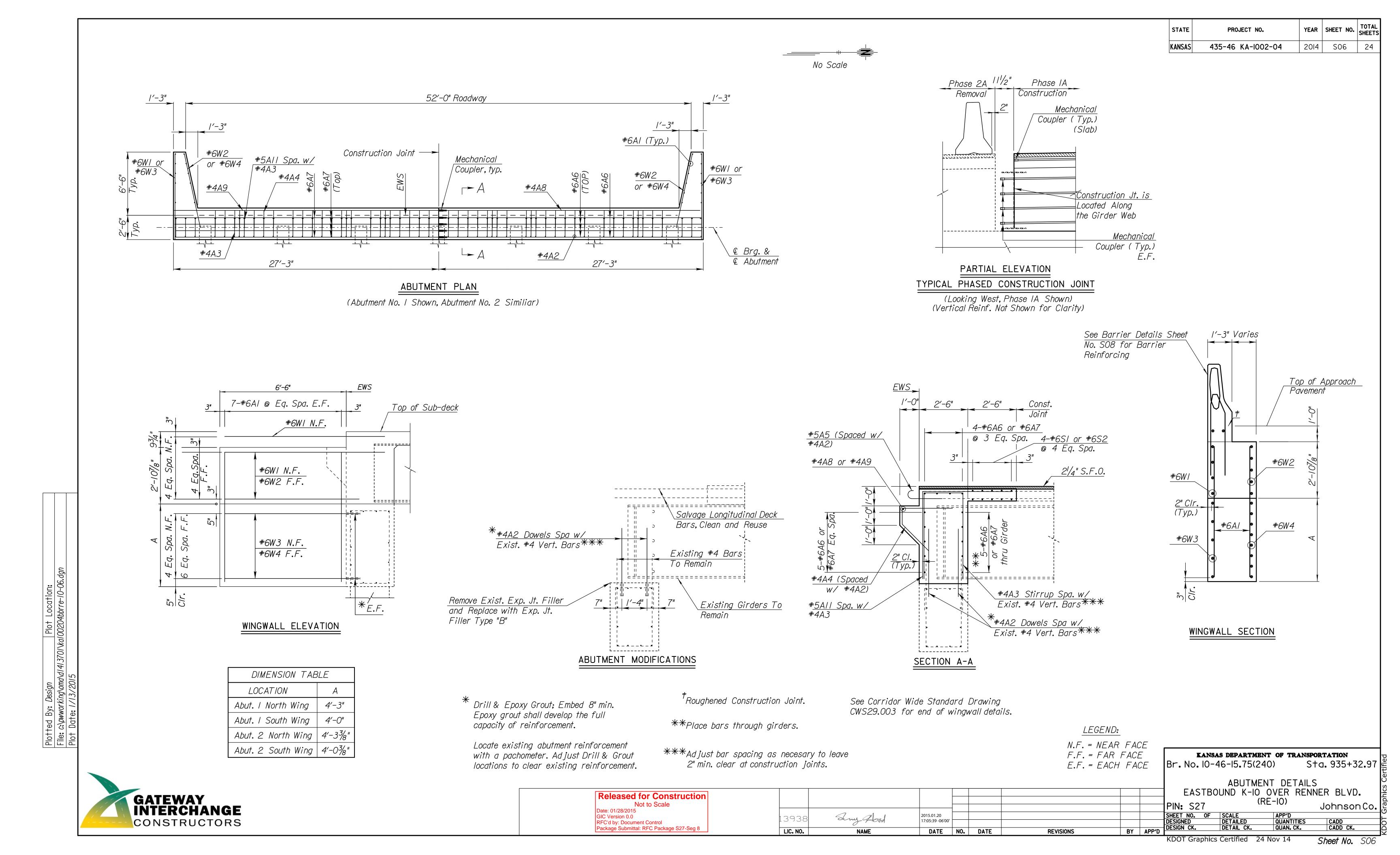
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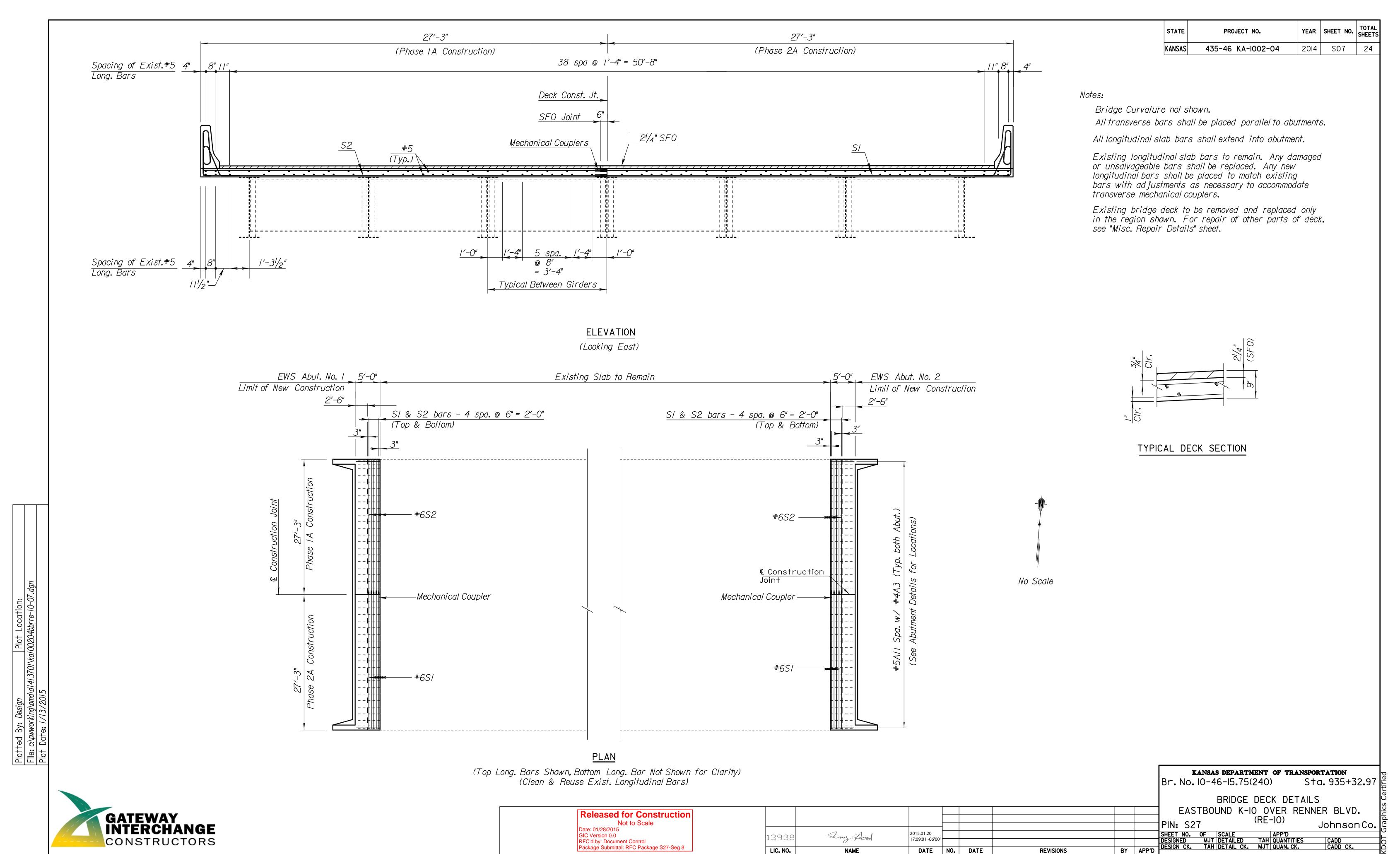
DESIGN CK. MJT DETAIL CK. MJT QUAN. CK.

KDOT Graphics Certified 24 Nov 14

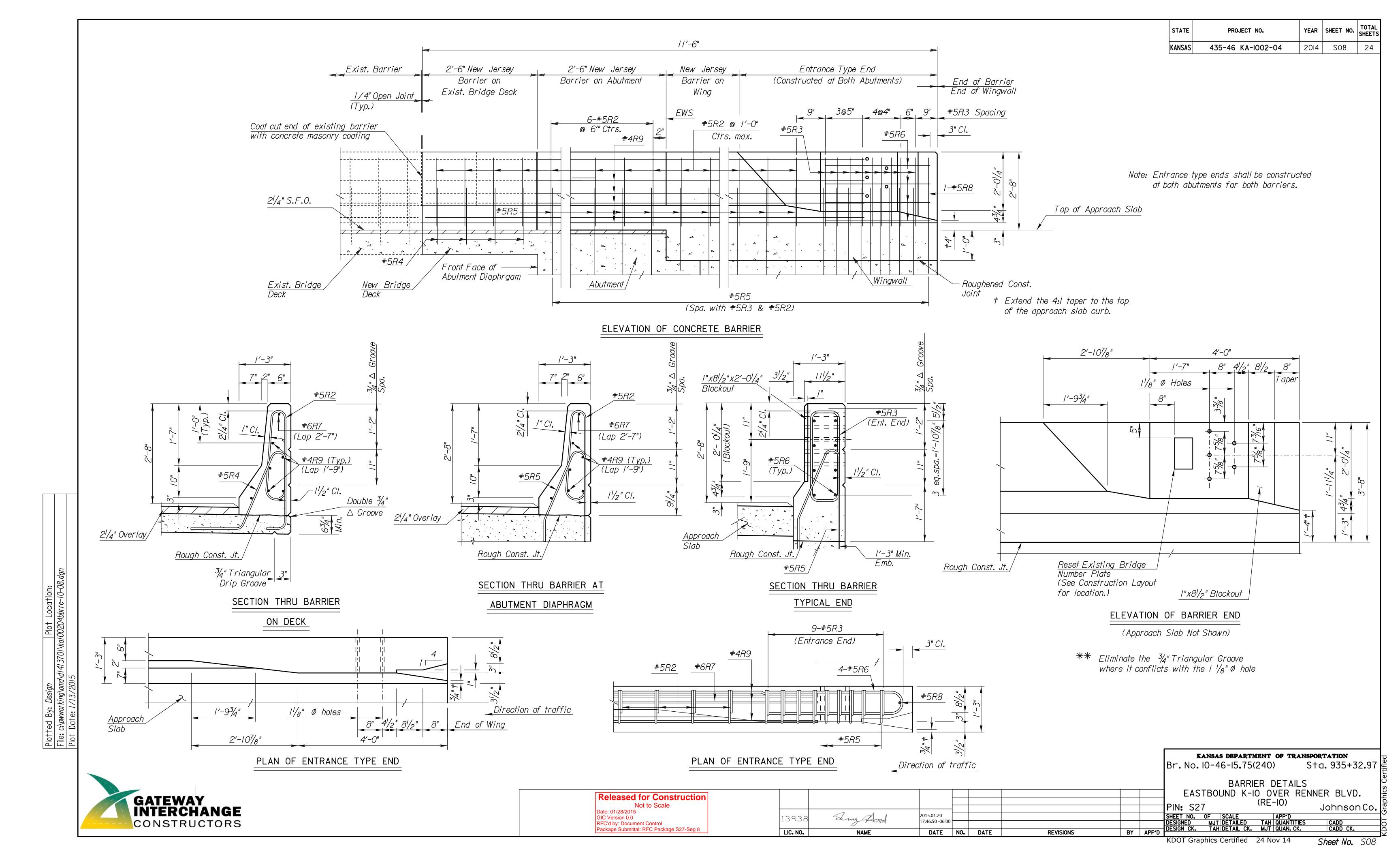
Sheet No. S05

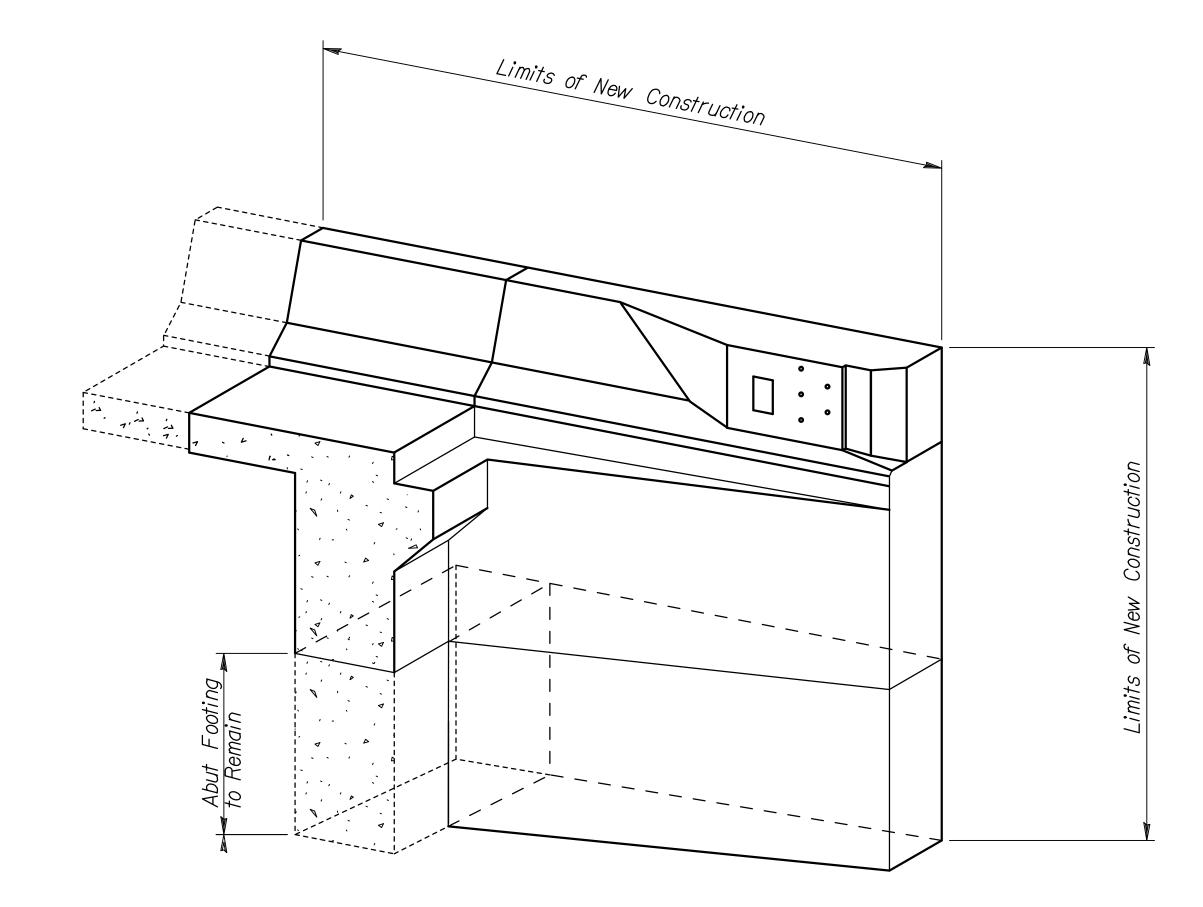
CADD CK.



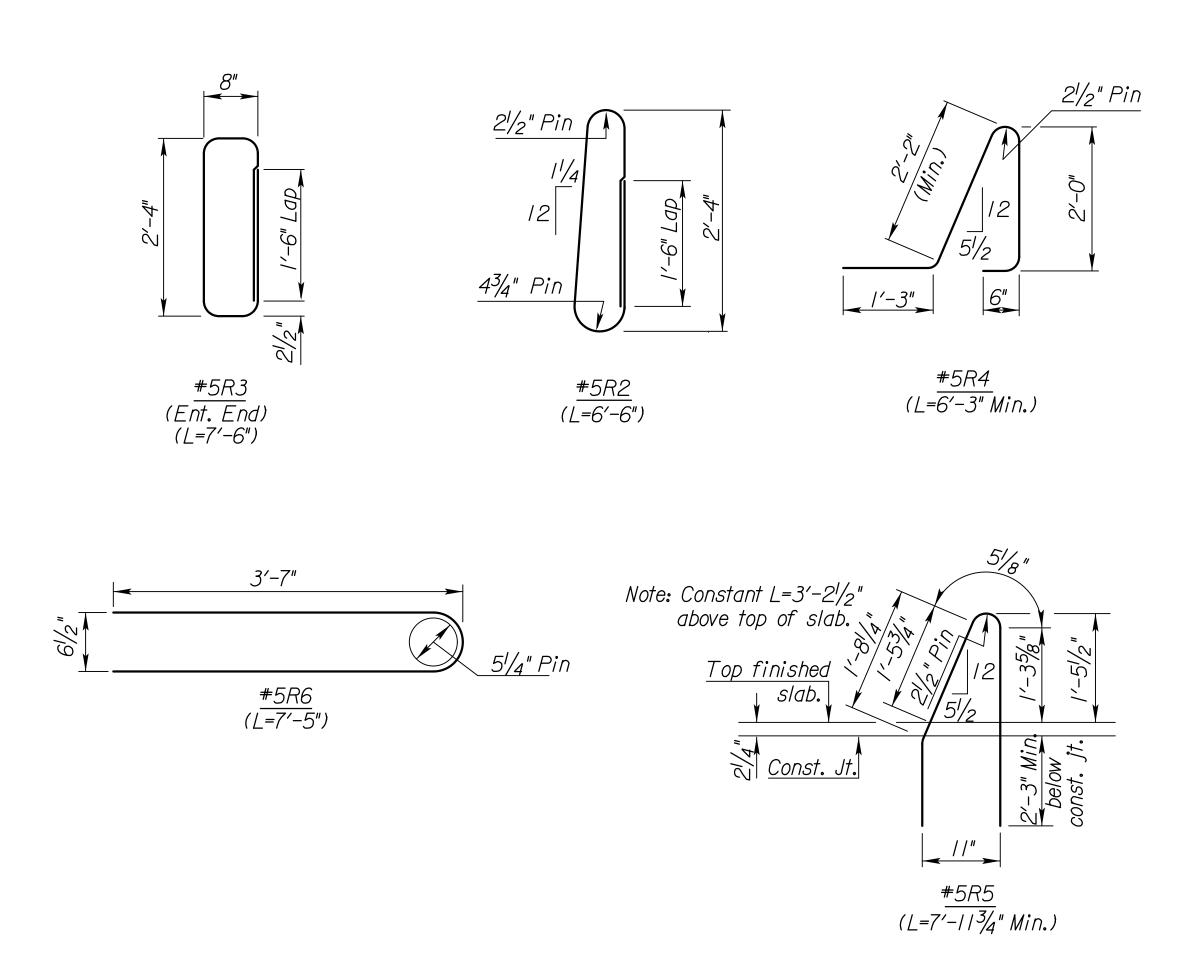


KDOT Graphics Certified 24 Nov 14 Sheet No. SO7





NEW CONCRETE BARRIER & WINGWALL (TYPICAL WINGWALL)



BENDING DIAGRAMS

GATEWAY INTERCHANGE CONSTRUCTORS

Released for Construction Not to Scale
Date: 01/28/2015
GIC Version 0.0
RFC'd by: Document Control
Package Submittal: RFC Package S27-Seg 8

2015.01.20 17:49:47 -06'00' Tiny food 13938 DATE NO. DATE LIC. NO. NAME REVISIONS

KANSAS DEPARTMENT OF TRANSPORTATIONBr. No. 10-46-15.75(240) Sta. 935+ S†a. 935+32.97 🖺

AUXILIARY BARRIER DETAILS
EASTBOUND K-IO OVER RENNER BLVD.
(RE-IO)
Johnson C

PIN: S27

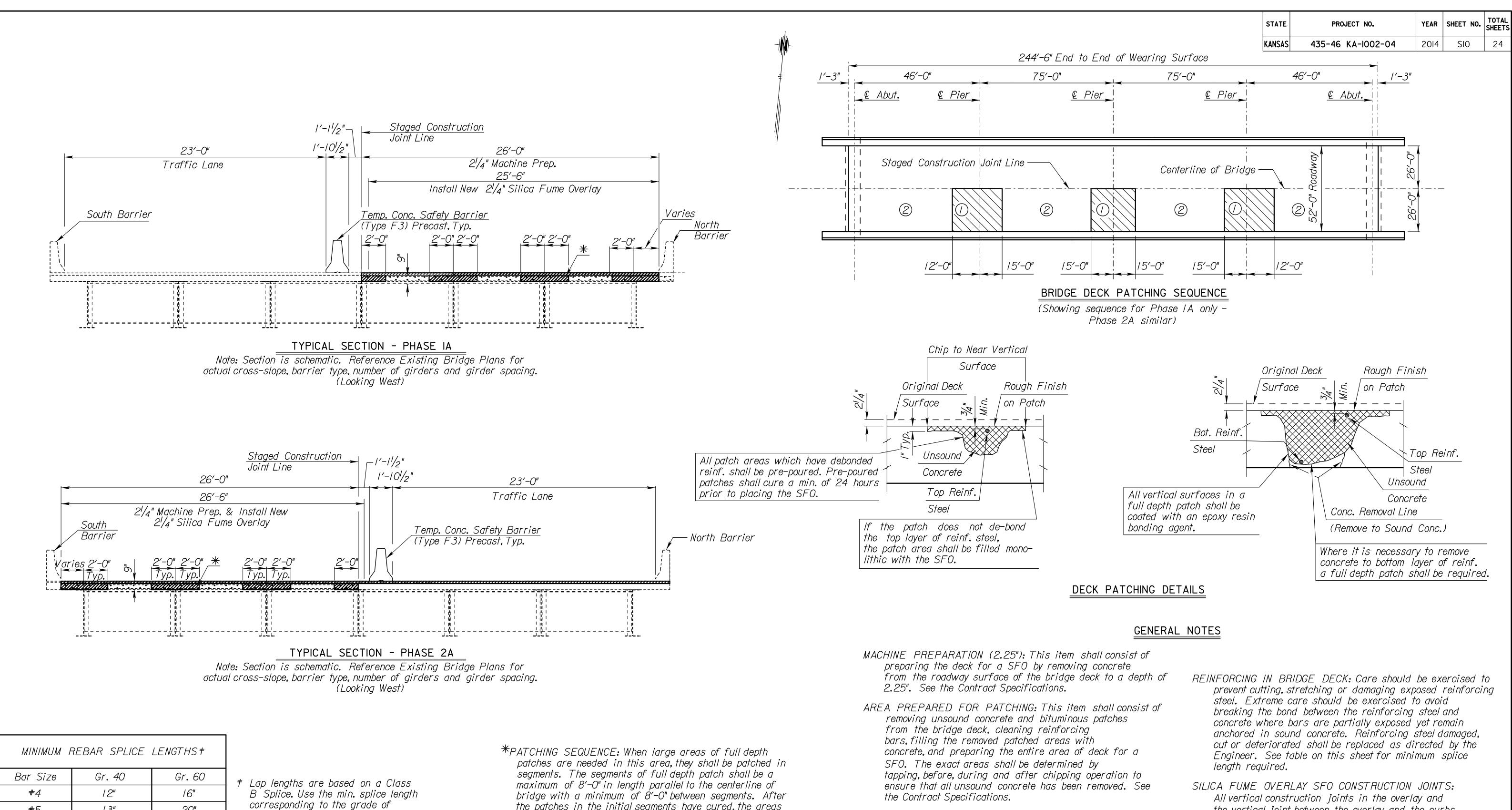
SHEET NO. OF SCALE APP'D

DESIGNED MJT DETAILED TAH QUANTITIES

DESIGN CK. TAH DETAIL CK. MJT QUAN. CK. Johnson Co. CADD CK.

Sheet No. 509





#5 /3" 20" #6 16" 24" #7 30"

existing reinforcing in the deck.

Note: If splicing epoxy coated reinforcing steel, increase the above splice lengths by 20%.

the patches in the initial segments have cured, the areas between the segments shall be patched.

The segmental patching will not be required if adequate shoring is provided to support the deck and curbs.

The numbers (1) and (2) designate the order in which full depth patching will be performed in the areas so

FULL DEPTH PATCHING: Forms shall be provided to enable placement of concrete in areas of full depth removal of bridge slab. The forms may be suspended from existing reinforcing bars by wire ties or a method approved by the Engineer may be used.

the vertical joint between the overlay and the curbs shall be sealed by sandblasting and then painting the joints with an approved Concrete Masonry Coating 72 hours after placement of the SFO.

GATEWAY INTERCHANGE CONSTRUCTORS

Released for Construction Not to Scale PIN: S27 Date: 01/28/2015 Zuy Hood 2015.01.20 13938 GIC Version 0.0 7:52:47 -06'00' RFC'd by: Document Control
Package Submittal: RFC Package S27-Seg 8 LIC. NO. NAME DATE NO. DATE **REVISIONS**

Br. No. 10-46-15.75(240) S†a. 935+32.97 崖 DECK PATCHING AND OVERLAY DETAILS EASTBOUND K-IO OVER RENNER BLVD. (RE-IO)

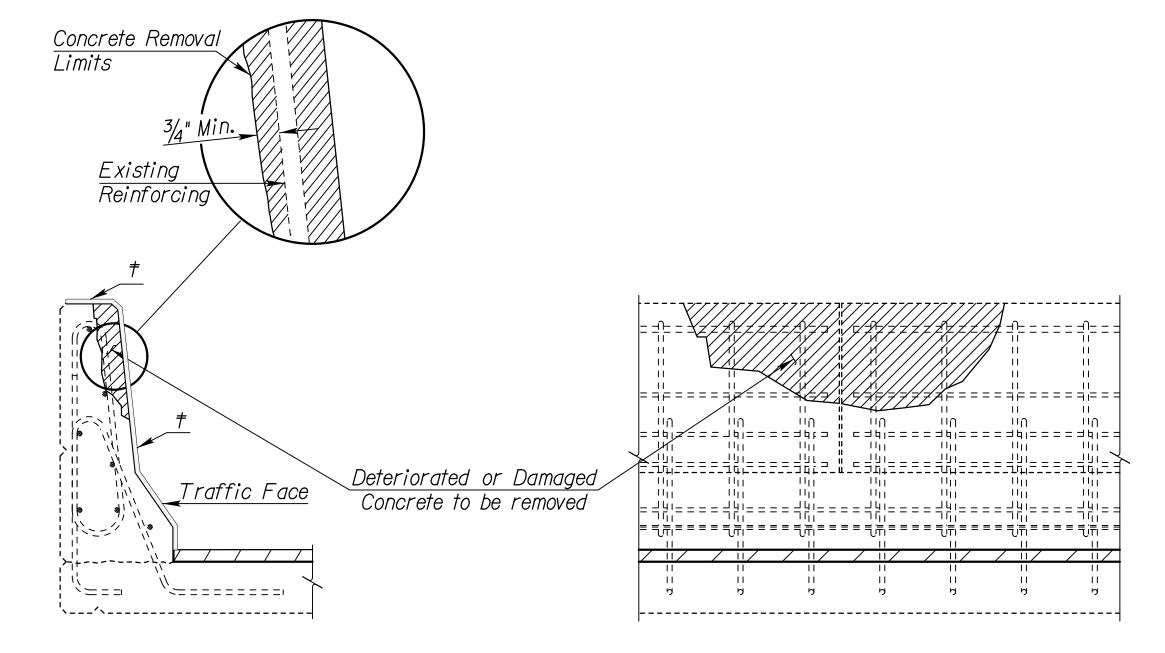
KANSAS DEPARTMENT OF TRANSPORTATION

SHEET NO. OF SCALE APP'D
DESIGNED TAH DETAILED TAH QUANTITIES
DESIGN CK. MJT DETAIL CK. MJT QUAN. CK.

Sheet No. S10

CADD CK.

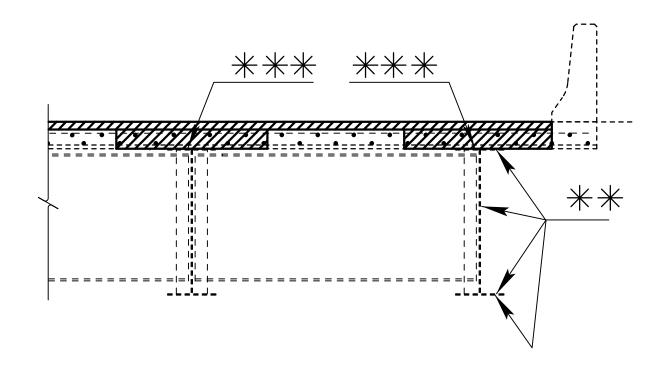
Johnson Co.



<u>SECTION</u> <u>ELEVATION</u>

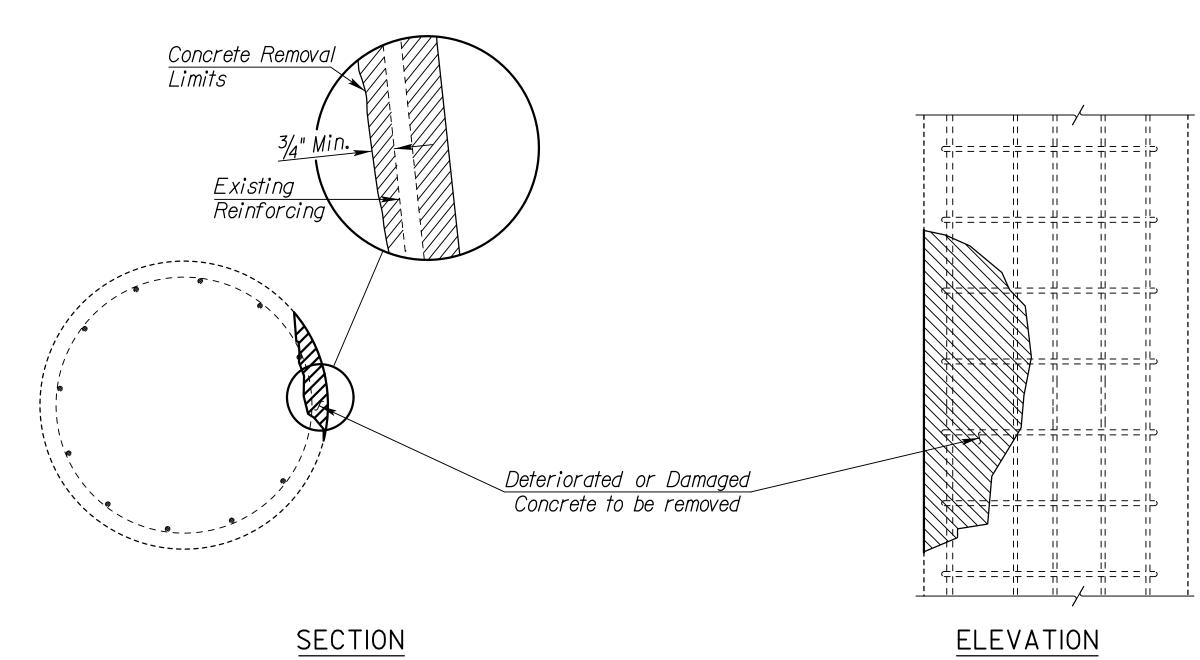
EXISTING BARRIER RAIL DETAILS

These areas are to be sandblasted to remove disintegrated concrete, dirt, and any foreign material along the entire length of the barrier rail. Apply an approved Concrete Masonry Coating to the top and to the traffic face of the barrier rail along the entire length of the bridge. This work shall conform to the project specifications.



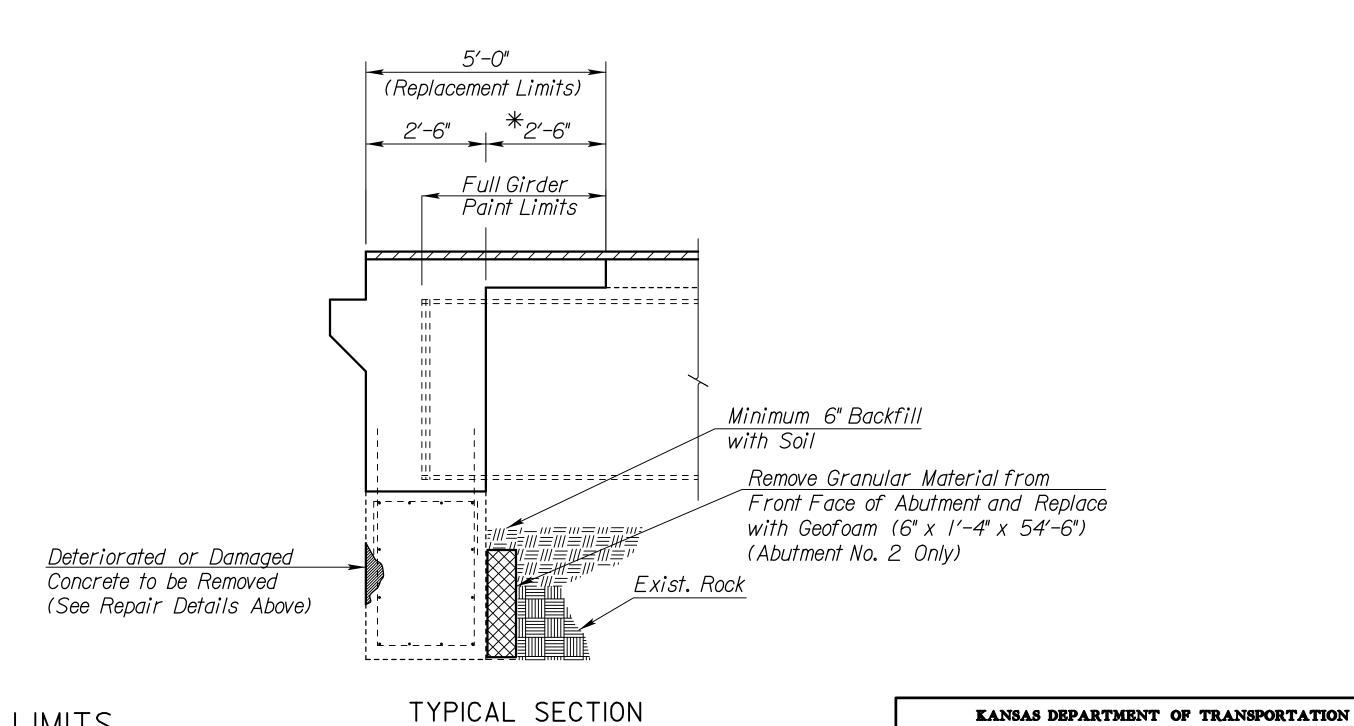
EXISTING GIRDER DETAILS

- * Paint all exposed surfaces of girders within 2'-6" from face of abutments.
- ** Paint exterior of web and flanges and the bottom suface of bottom flange for the full length of exterior girders.
- *** Paint the top surface of top flanges of girders where exposed by deck removal.



EXISTING PIER DETAILS

CONCRETE REPAIR (Barrier Rails, Columns and Abutment Beams): The Contractor shall remove all deteriorated or damaged concrete delineated by the Engineer. Additional concrete shall be removed to create a minimum thickness of new concrete of I inch. Do not feather edges. At repair locations, the concrete shall be removed from 3/4" around the reinforcing steel near the surface of the concrete to allow a positive bond of new concrete to the existing structure. Concrete (Grade 4.0) (AE) or an approved Shotcrete shall be used. Prior to its placement, an epoxy resin for bonding new concrete to existing concrete shall be used.





EXISTING GIRDER PAINTING LIMITS

MISC. REPAIR DETAILS

EASTBOUND K-IO OVER RENNER BLVD.

(RE-IO)

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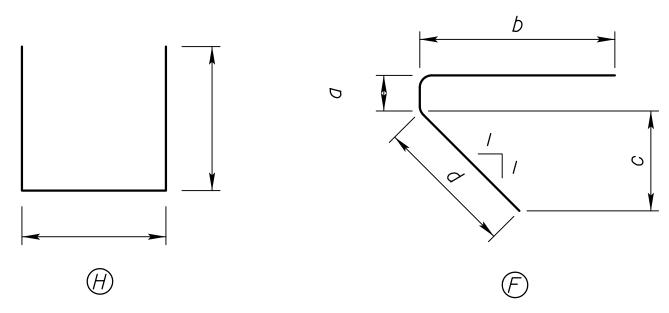
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	†	A8		Α	#4								
	†	A9		Α	#4								
	†	A/0		Α	#6								
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/	†	W/		Α	#6								
NO.	†	W2		Α	#6								
_	†	W3		Α	#6								
-N7	†	W4		Α	#6								
-ME	†	R2		*	#5								
ABUTMENT	†	R3		*	#5								
AE	†	R4		*	#5								
	†	R5		*	#5								
	†	R6		*	#5								
	†	R7		Α	#6								
	†	R8		Α	#5								
	†	R9		Α	#4								
	†	SI		Α	#6								
	†	<i>S2</i>		Α	#6								

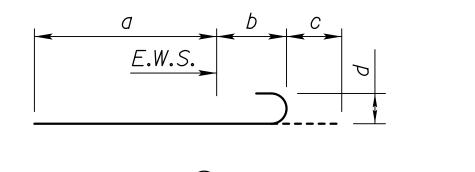
					RE	INFORCI	NG STE Frade 60.	EL SCH	EDULE				
LOCATION	EPOXY	BAR LABEL	NO. REQUIRED	SHAPE	SIZE	TOTAL LENGTH	а	Ь	DI c	MENSION d	IS e	f	g
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	#	A9		Α	#4								
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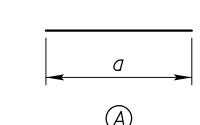
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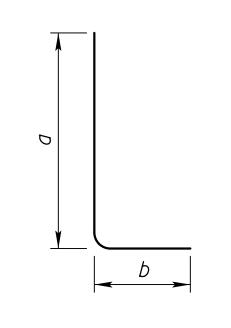
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RFC'd by: Document Control
Package Submittal: RFC Package S27-Seg 8

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	435-46 KA-1002-04	2014	SI2	24











BENDING DIAGRAMS

- A Denotes bending diagram mark.
- * See "Auxiliary Barrier Details" Sheet for bending diagrams of R (barrier curb) bars.
- † = Epoxy Coated.

- Notes: I. All dimensions shown are out to out of bar, unless shown otherwise.
- 2. No allowance for bend curvature is to be made except for standard hooks and larger bends where shown.

REVISIONS

KANSAS DEPARTMENT OF TRANSPORTATION Br. No. 10-46-15.75(240) Sta. 935+32.97

BILL OF REINFORCING STEEL

& BENDING DIAGRAMS

EASTBOUND K-10 OVER RENNER BLVD.

(RE-10) Johnson Co.

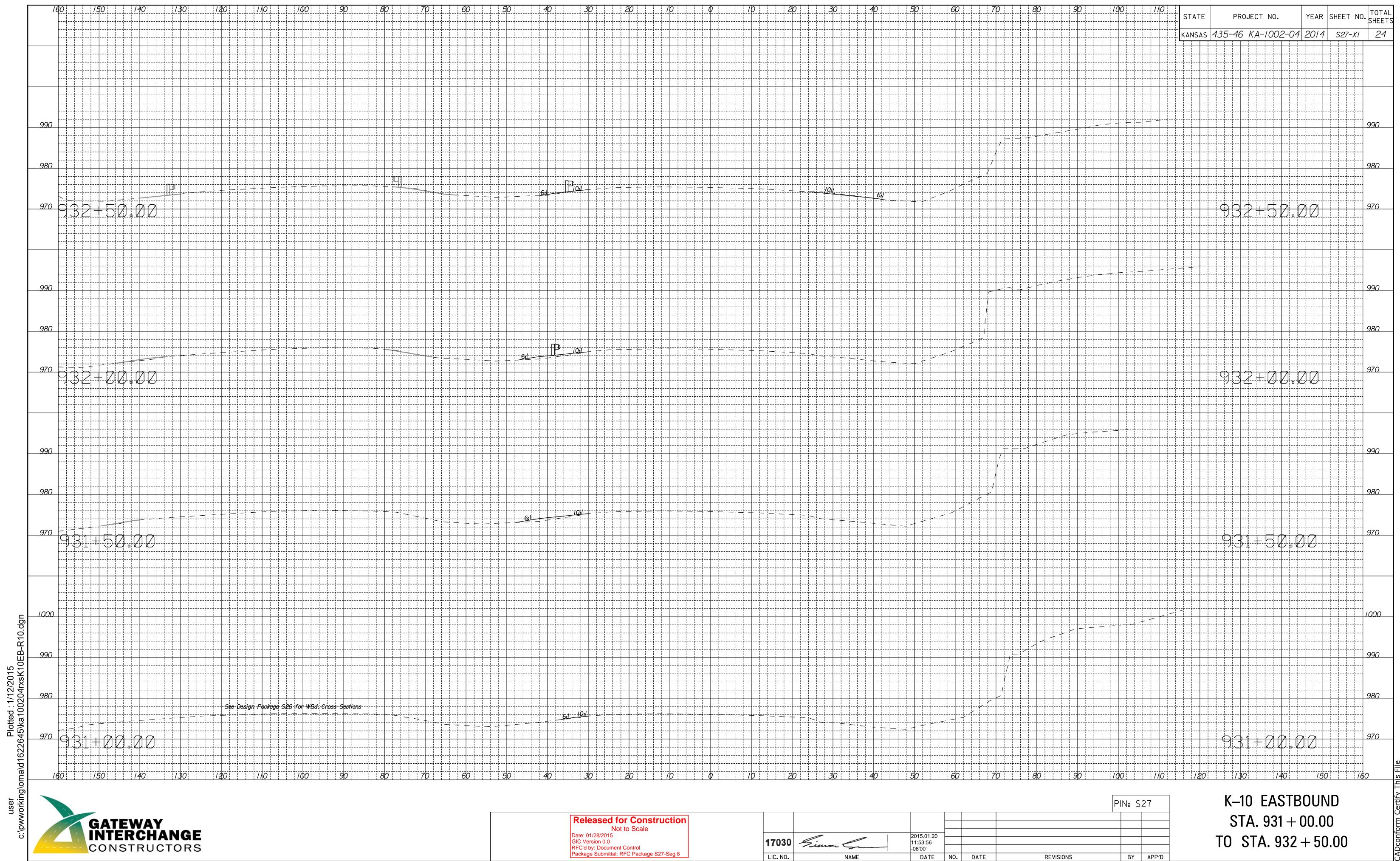
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Johnson Co. SHEET NO. OF SCALE APP'D
DESIGNED TAH DETAILED TAH QUANTITIES
DESIGN CK. MJT DETAIL CK. MJT QUAN. CK. CADD CK.



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