

Smith, Jacob

From: Kresl, Zachary (FHWA) <zach.kresl@dot.gov>
Sent: Wednesday, March 3, 2021 1:02 PM
To: Smith, Jacob; Maiefski, Melissa; Petracek, Sue; pjinfne@dot.gov
Cc: Barber, Jon; Pitts, Luke
Subject: RE: For Your Review: Plan Revision R-1 Reevaluation, 21209, Murray - Plattsmouth

Hi Jake,

FHWA concurs with your assessment.

Zach Kresl
Environmental Protection Specialist
FHWA Nebraska Division
(402)742-8465

From: Smith, Jacob [mailto:jacob.smith@nebraska.gov]
Sent: Friday, February 26, 2021 2:34 PM
To: Kresl, Zachary (FHWA) <zach.kresl@dot.gov>; Maiefski, Melissa (FHWA) <melissa.maiefski@dot.gov>; Petracek, Sue <SuePetracek@stateofne.onmicrosoft.com>; pjinfne (FHWA) <pjinfne@dot.gov>
Cc: Barber, Jon <Jon.Barber@nebraska.gov>; Pitts, Luke <luke.pitts@nebraska.gov>
Subject: For Your Review: Plan Revision R-1 Reevaluation, 21209, Murray - Plattsmouth

CAUTION: This email originated from outside of the Department of Transportation (DOT). Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Zach,

Plan Revision R-1 is ready to be processed for the subject line project. As we discussed over the phone, due to the minor nature of the proposed changes, an email re-evaluation appears warranted.

Please note that some of the plan revision changes were included in previous amendments, however, we felt it would be more straightforward and efficient to reevaluate the whole plan revision rather than parse out what may have already been sent to FHWA as an amendment.

Please see below for a summary of the changes that are a part of this plan revision:

- Sheet B6 was replaced with the revised sheet B6A. Revisions included minor grammatical changes, typical changes, and foundation course changes.
- Sheets N13 and N14 were added to show lighting details for the underdeck bridge lighting at structure S034 37969.

For additional information, please see attached for a copy of a plan revision memo describing the changes in Plan Revision R-1 and a copy of the revised plan sheets. The lighting work mentioned above was reviewed by the Threatened and Endangered species PQS as a part of Amendment 3 for this project. They determined that the work would not cause a change to their effect determination. Documentation showing this review has been attached.

The plan revision changes do not alter the project limits of construction and all changes are occurring within the previously reviewed environmental study area, and the changes won't increase or create new impacts. Also, the changes

do not create new or changed traffic pattern or access impacts, nor do they change, introduce new or increased use of Section 4(f) properties. Also, the changes do not modify any environmental commitments for construction. The NEPA determination in the ROD remains valid.

Please let me know if you concur with this determination or if you need additional information.

Have a great weekend,

Jake Smith

Project Development - Environmental Documents Unit

402.479.3632 - jacob.smith@nebraska.gov

NEBRASKA

Good Life. Great Journey.

DEPARTMENT OF TRANSPORTATION

Date: February 15, 2021

To: Construction

From: Wilson & Company/Hassani  Through Tony Kessler  Roadway Design

Subj: Project No. NH-75-2(128), C.N. 21209, Murray – Plattsmouth
Plan Revision R-1

JUSTIFICATION:

- Sheet B6 was deleted and sheet B6A was added to accommodate various typical changes:
 - The line titled “Rock Bluff Rd.” for station range “9201+42.00 – 9201+54.00” is void and has been removed per Addendum 1.
 - In response to a contractor question in the letting process and confirmed by Roadway Design, the third typical on sheet B6, the number 2 bubble for 10” Concrete Pavement, has been changed to a number 1 for 10” Doweled Concrete Pavement.
 - To coordinate with M&R pavement quantities that were provided in the letting plans, Foundation Course was added to Murray Rd. as well as Stabilized Subgrade, Type Lime. A new typical was created for Church Rd. since its base structure is only Subgrade Preparation and no Foundation Course. The line titled “Horning Rd.” for station range “9801+17.74 – 9801+49.00” is void and has been removed. Roadway Design, M&R, and Construction are in agreement with these changes.

- Sheets N13 and N14 were added to show lighting details for the underdeck bridge lighting for structure #S034 37969 over the UPRR.

Plans for the above reference project have been revised to include these changes:

Revised Sheets:	A2
Deleted Sheet:	B6
Added Sheets:	B6A, N13, N14

Cc: District 2
Consultant – Wilson & Company (Matt Bryant)

THIS SET OF PLANS IS
DRAFT PLAN REVISION 1

PROJECT NO.	SHEET NO.
NH-75-2(128)	A1
▲ CONTROL NO.	21209
▲ CONTROL NO.	
■ CONTROL NO.	

(R1) 15 FEB 21

STATE OF NEBRASKA
DEPARTMENT OF TRANSPORTATION

PLANS FOR CONSTRUCTION
MURRAY - PLATTSMOUTH
CASS COUNTY

THE 2017 EDITION OF THE NEBRASKA STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS APPLY TO THIS PROJECT.

THE WORK ON THIS PROJECT CONSISTS OF GROUPS 1-GRADING, 1A-RETAINING WALL, 3-CONCRETE PAVEMENT, 4-CULVERT, 4A-CULVERT, 5-SEEDING, 6-BRIDGE, 7-GUARDRAIL, 8B-ELECTRICAL, 8C-SIGNING & 10-GENERAL

▲ GROUPS 1, 1A, 3, 4, 4A, 5, 6, 7, 8B, 8C & 10 ARE INCLUDED IN THE LETTING OF NOVEMBER 19, 2020

▲ GROUPS _____ ARE INCLUDED IN THE LETTING OF _____

■ GROUPS _____ ARE INCLUDED IN THE LETTING OF _____

US-34 RP 373+33 - 380+16

DESIGN DESIGNATION	
3R RURAL	
TRAFFIC	
YEAR: 2018	2038
ADT: 9,630	11,505
DHV: 1,055	1,260
T= 7 %	D= - %

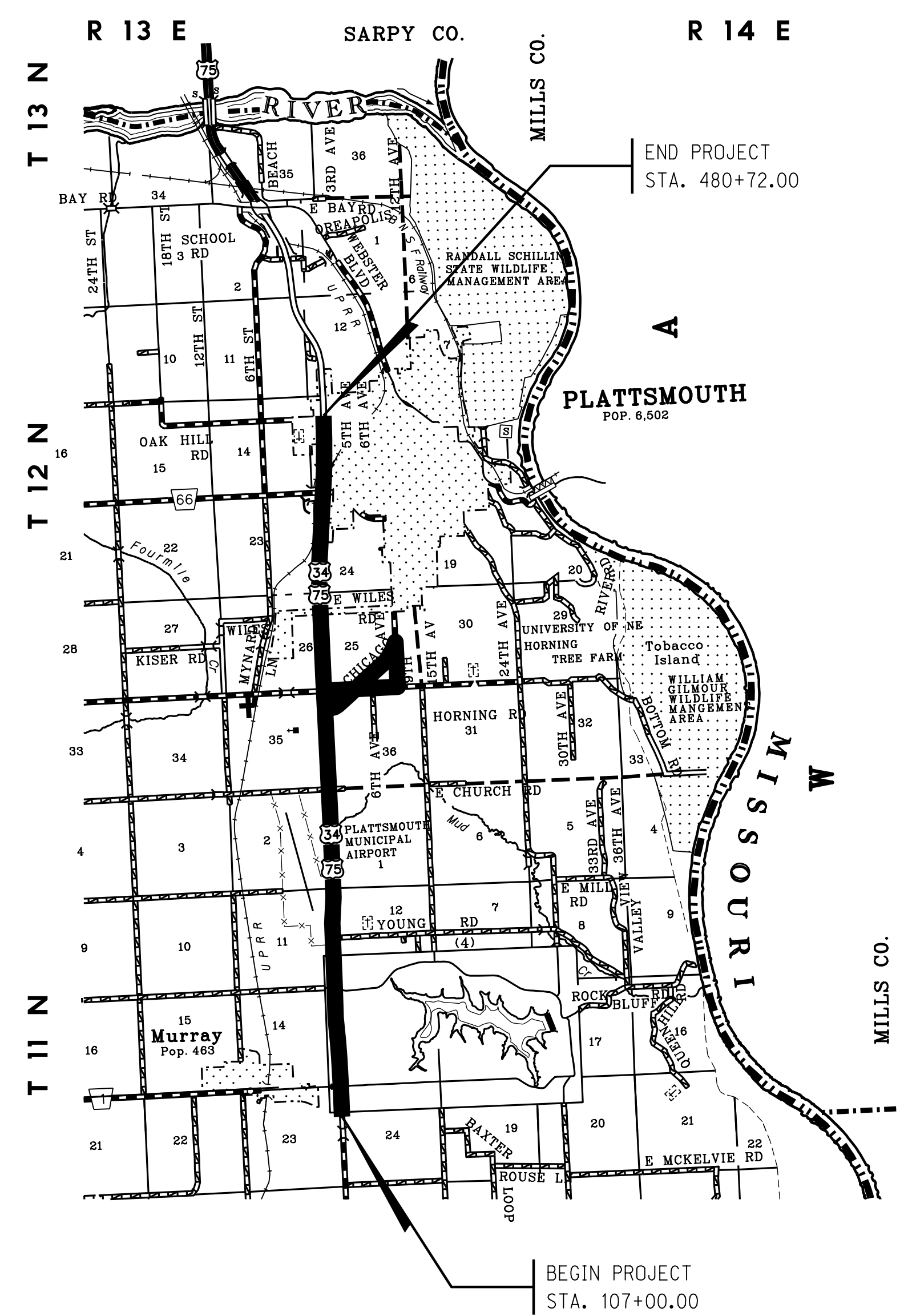
N-1 25+85 - 26+76

DESIGN DESIGNATION	
3R RURAL	
TRAFFIC	
YEAR: 2018	2038
ADT: 3,240	3,450
DHV: 405	425
T= 5 %	D= - %

HORNING RD. EAST OF US-34

DESIGN DESIGNATION	
3R RURAL	
TRAFFIC	
YEAR: 2018	2038
ADT: 460	510
DHV: 215	215
T= 6 %	D= - %

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
PROJECT OF DIVISION INTEREST
(ON NHS)



Project Raw Materials (Tons)	188,899
Post Consumer Recycle Content in Project Raw Materials (Tons)	13,794
Post Consumer Recycle Content	7%
Estimated Value of Post Consumer Content Recycled	\$1,320,525

CONVENTIONAL SIGNS

- FENCE R.O.W. OR WIRE
- GUARDRAIL
- TRAVELED WAY
- DIKE
- CULVERT
- POWER POLE
- TELEPHONE POLE
- MAILBOX
- RAILROAD TRACKS
- MARSH
- TREE - CONIFEROUS
- TREE - DECIDUOUS

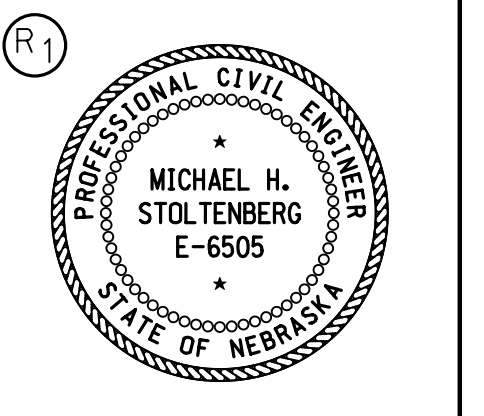
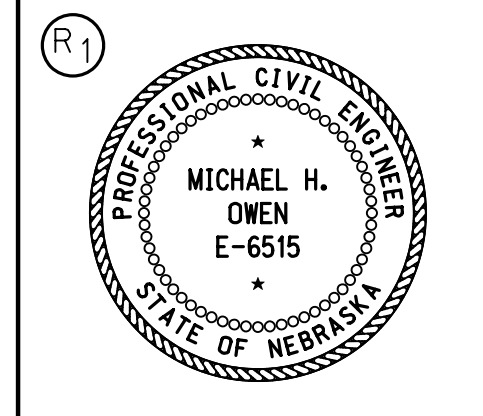
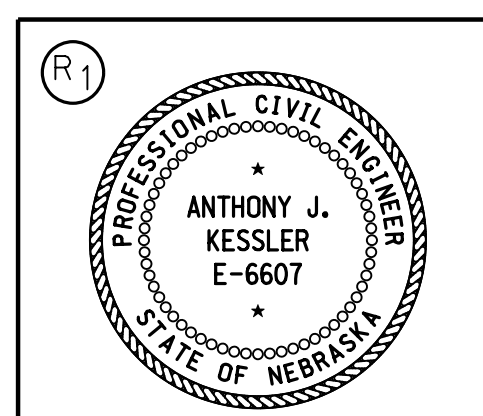
R.O.W. LEGEND

- NEW CONTROLLED ACCESS
- PREVIOUS CONTROLLED ACCESS
- LIMITS OF CONSTRUCTION
- PREVIOUS R.O.W.
- NEW R.O.W.
- EXISTING PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXCESS TAKING
- PERMANENT EASEMENT
- EXISTING RAILROAD EASEMENT
- NEW RAILROAD PERMANENT EASEMENT
- NEW RAILROAD TEMPORARY EASEMENT

REFERENCE POST NO. US-34 373+08 TO REFERENCE POST NO. US-34 380+16

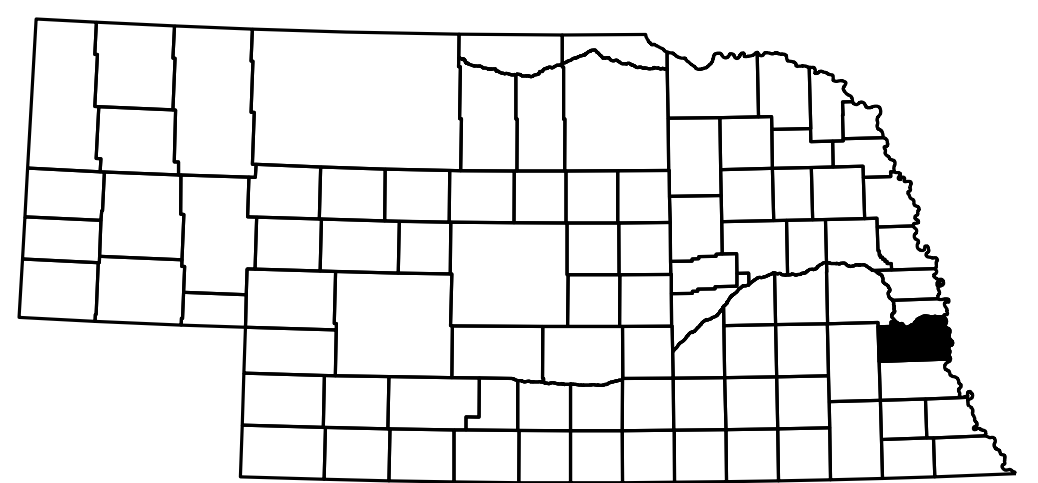
EXCEPTIONS: FROM STA. TO STA.

TOTAL NET LENGTH OF PROJECT: 37,372.00 FEET 7.078 MILES



COORDINATING PROFESSIONAL

The Original Sheet was Signed and Dated: 08-26-2020



WORK ON THIS PROJECT IS AUTHORIZED PURSUANT TO THE CONDITIONS STIPULATED IN THE ARMY CORPS OF ENGINEERS GENERAL/NATIONWIDE/INDIVIDUAL PERMIT

ROADWAY DESIGN DIVISION.

Computer: BC0419M537

File: 212090_NDOT_Title_Sheet_Rev 08-2021 08-01

PROJECT NO.	SHEET NO.
NH-75-2(128)	A2

C.N. 21209

(R1) 15 FEB 21

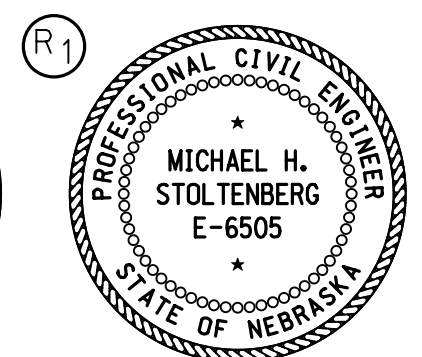
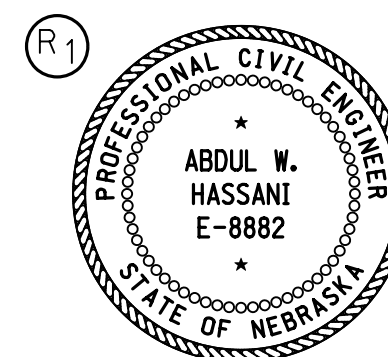
INDEX OF SHEETS

SHEET NO.	
A1	TITLE PAGE (R1)
A2	INDEX OF SHEETS
B1 - B14	TYPICAL CROSS SECTIONS (R1) DELETED SHT. B6; ADD SHT. B6A
C1 - C3	SUMMARY OF QUANTITIES
D1 - D2	SUMMARY OF SOIL & GEOTECHNICAL INFORMATION
E1 - E10	ENVIRONMENTAL
F1 - F11	HORIZONTAL ALIGNMENT & ORIENTATION
G1 - G10	GENERAL INFORMATION
H1 - H40	PHASING PLANS
J1 - J16	GEOMETRICS
J17 - J35	JOINTS
J36 - J52	GRADES
J53 - J68	CONSTRUCTION, DRAINAGE & REMOVALS
J69 - J97	EROSION AND SEDIMENT CONTROL
L1 - L32	PLAN AND PROFILE SHEETS
M1 - M7	TRAFFIC SIGNAL PLAN--MURRAY - PLATTSMOUTH
M8	TRAFFIC SIGNAL PLAN--DETECTOR DETAIL
M9	PULL BOX DETAIL--PULL BOX DETAIL PB--FOR27
M10 - M12	TEMPORARY TRAFFIC SIGNAL PLAN--MURRAY - PLATTSMOUTH
M13 - M18	TRAFFIC CONTROL PLAN--US-34 / US-75--PHASING
M19	TYPICAL TRAFFIC CONTROL PLAN--RURAL CROSSOVER ON 4-LANE DIVIDED HIGHWAY
M20	TYPICAL TRAFFIC CONTROL PLAN--PAVED SHO-O-FLY DETOUR
M21	TRAFFIC CONTROL PLAN--HEAD TO HEAD TRAFFIC DETAIL
M22	TYPICAL TRAFFIC SIGNAL CONTROL PLAN--TWO LANE, TWO WAY TRAFFIC WITH BARRIERS
M23	TYPICAL TRAFFIC CONTROL PLAN--INERTIAL BARRIER SYSTEM
M24 - M28	PAVEMENT MARKING PLAN--US-34 / US-75 MURRAY - PLATTSMOUTH
M29	TYPICAL MARKING AND SIGNING PLAN--RURAL EXPRESSWAY
M30	PAVEMENT MARKING PLAN--PAVEMENT MARKING DETAILS
M31	TRAFFIC CONTROL PLAN--VEHICLE SIGNING FOR PAINT STRIPING
M32 - M36	SIGN REMOVAL PLAN--MURRAY - PLATTSMOUTH SIGN REMOVAL
M37 - M40	SIGN INSTALLATION PLAN--MURRAY - PLATTSMOUTH SIGN INSTALLATION
M41 - M43	SIGN DETAILS--MURRAY - PLATTSMOUTH SIGN DETAILS
M44	SIGN DESIGN DETAILS--BREAK-A-WAY TYPE POST DETAILS FOR TYPE "B" & "C" SIGNS
M45	SIGN DESIGN DETAILS--TYPICAL SIGN INSTALLATION DETAILS FOR BREAK-A-WAY TYPE POST FOR TYPE "B" & "C" SIGNS
M46	SIGN DESIGN DETAILS--FABRICATION & MOUNTING DETAILS TYPE "B" & "C" GUIDE SIGN PANELS
N1 - N12	ROADWAY LIGHTING PLANS (R1) ADD SHTS. N13, N14
Q1 - Q24	EARTHWORK DATA SHEETS
R1 - R39	DRAINAGE STRUCTURE CROSS SECTIONS
S1 - S39	SPECIAL PLAN 1 299'-0" 3 SPAN PRESTRESSED CONCRETE GIRDER BRIDGE STA. 455+95.50
T1 - T2	SPECIAL PLAN 1C 5' X 5' SINGLE SPAN CONCRETE BOX CULVERT STA. 259+19 LT
T3 - T4	SPECIAL PLAN 2C 5' X 5' SINGLE SPAN CONCRETE BOX CULVERT STA. 298+23 LT
T5 - T7	SPECIAL PLAN 3C 10' X 10' MULTIPLE SPAN CONCRETE BOX CULVERT STA. 336+39
T8 - T10	SPECIAL PLAN 4C 6' X 4' SINGLE SPAN CONCRETE BOX CULVERT STA. 363+25

SHEET NO.	
T11 - T12	SPECIAL PLAN 5C 6' X 6' SINGLE SPAN CONCRETE BOX CULVERT STA. 7201+40
T13 - T14	SPECIAL PLAN 6C 12' X 9' SINGLE SPAN CONCRETE BOX CULVERT STA. 9812+41
T15 - T16	SPECIAL PLAN 7C 8' X 4' MULTIPLE SPAN CONCRETE BOX CULVERT STA. 9817+89
T17	SPECIAL PLAN 8C MODIFIED CONCRETE FLUME, TYPE VIII
T18	SPECIAL PLAN 9C CONCRETE HEADWALL
T19	SPECIAL PLAN 10C CONCRETE HEADWALL
T20	SPECIAL PLAN 11C CONCRETE HEADWALL
T21	SPECIAL PLAN 12C CONCRETE CAP
T22 - T23	SPECIAL PLAN 13C BUNKER INLET
U1	SPECIAL PLAN 14C GUARDRAIL PLANS
U2 - U5	SPECIAL PLAN 15C RETAINING WALL
U6	SPECIAL PLAN 16C AREA INLET WITH BAR
U7- U8	SPECIAL PLAN 17C INLET PROTECTION
U9	SPECIAL PLAN 18C TEMPORARY PIPE SLOPE DRAIN
U10	SPECIAL PLAN 19C CONCRETE WASHOUT & CONSTRUCTION EXIT
U11 - U12	SPECIAL PLAN 20C CONCRETE PROTECTION BARRIER
U13- U14	SPECIAL PLAN 21C MILLED RUMBLE STRIPS
U15- U18	SPECIAL PLAN 22C SILT CHECKS ALL TYPES
U19 - U21	SPECIAL PLAN 23C 6 TO 8 INCH CONCRETE PAVEMENT
U22 - U23	SPECIAL PLAN 24C AREA INLET WITH GRATE
W1 - W16	RIGHT-OF-WAY SHEETS
X1 - X420	CROSS SECTIONS

STANDARD PLANS

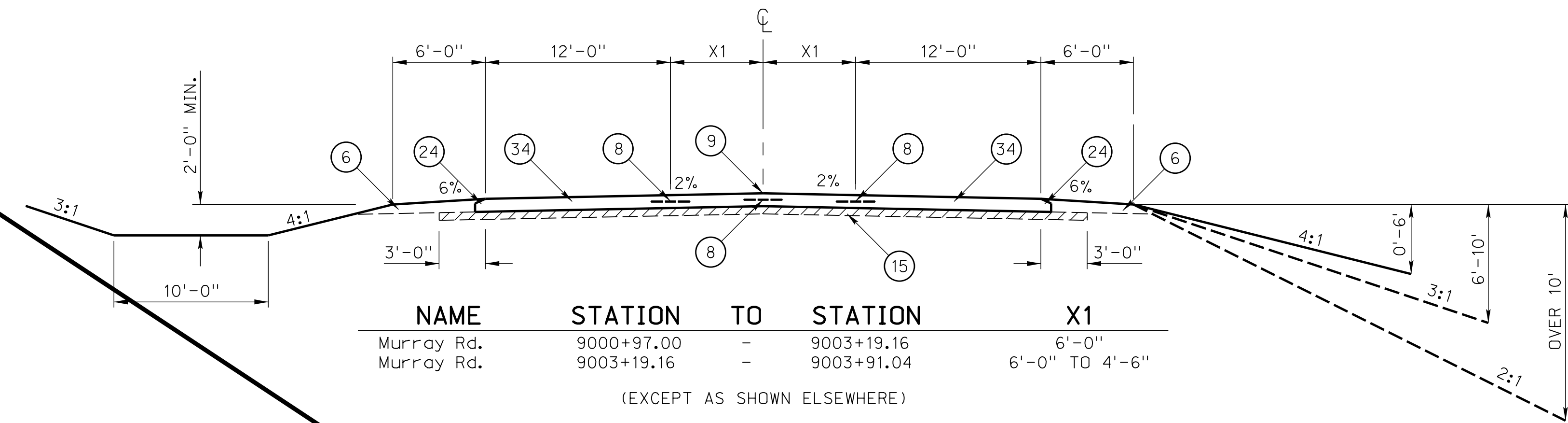
301-R12	(3 SHEETS) PAVEMENT DETAILS
303-R3	(5 SHEETS) CURB RAMP
329-R11	(4 SHEETS) 8 TO 16 INCH CONCRETE PAVEMENT
403-R3	(2 SHEETS) BENDS AND BREAKS FOR CONCRETE BOX CULVERTS
410-R4	(2 SHEETS) FLARED END SECTIONS FOR CULVERT PIPES
411-R2	(4 SHEETS) BEDDING AND BACKFILL REQUIREMENTS FOR CONCRETE PIPE
425-R5	COLLARS AND ELBOWS FOR CONCRETE PIPES
428-R4	CONCRETE PLUGS AND FIELD PIPE TAP DETAILS
435-R2	(3 SHEETS) MANHOLE
443-R12	(2 SHEETS) CURB INLETS AND JUNCTION BOX
501-R7	(3 SHEETS) EROSION CONTROL
502-R2	(2 SHEETS) SILT FENCE DETAILS
702-R1	(6 SHEETS) CABLE GUARDRAIL
740-R1	(3 SHEETS) MIDWEST GUARDRAIL SYSTEM BRIDGE APPROACH SECTION
743-R3	(4 SHEETS) GUARDRAIL DETAILS
901-R12	(2 SHEETS) HIGHWAY DELINEATORS AND CHEVRONS
914-R8	PULL BOX DETAIL
920-R7	(3 SHEETS) TRAFFIC CONTROL, CONSTRUCTION AND MAINTENANCE
921-R8	(2 SHEETS) TRAFFIC CONTROL, CONSTRUCTION AND MAINTENANCE
922-R11	(2 SHEETS) TRAFFIC CONTROL FOR ASPHALT SURFACING
923-R2	TRAFFIC CONTROL ROAD CLOSURE
924-R4	(3 SHEETS) URBAN TRAFFIC CONTROL PLAN



The Original Sheet was
Signed and Dated: 08-26-2020

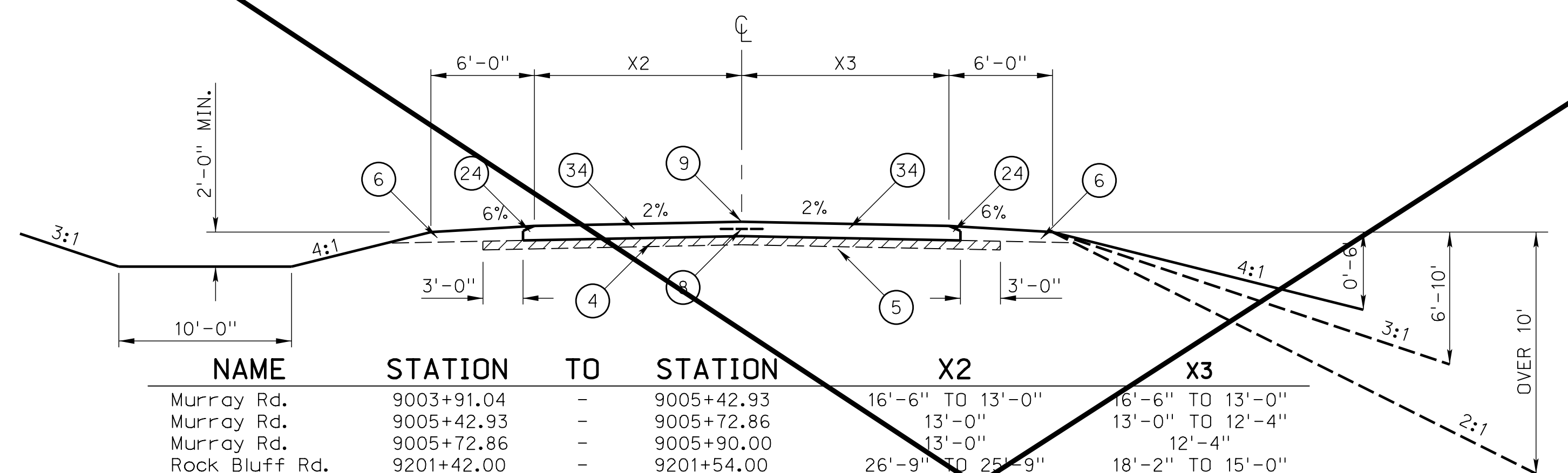
TYPICAL CROSS SECTIONS

ROADWAY DESIGN DIVISION
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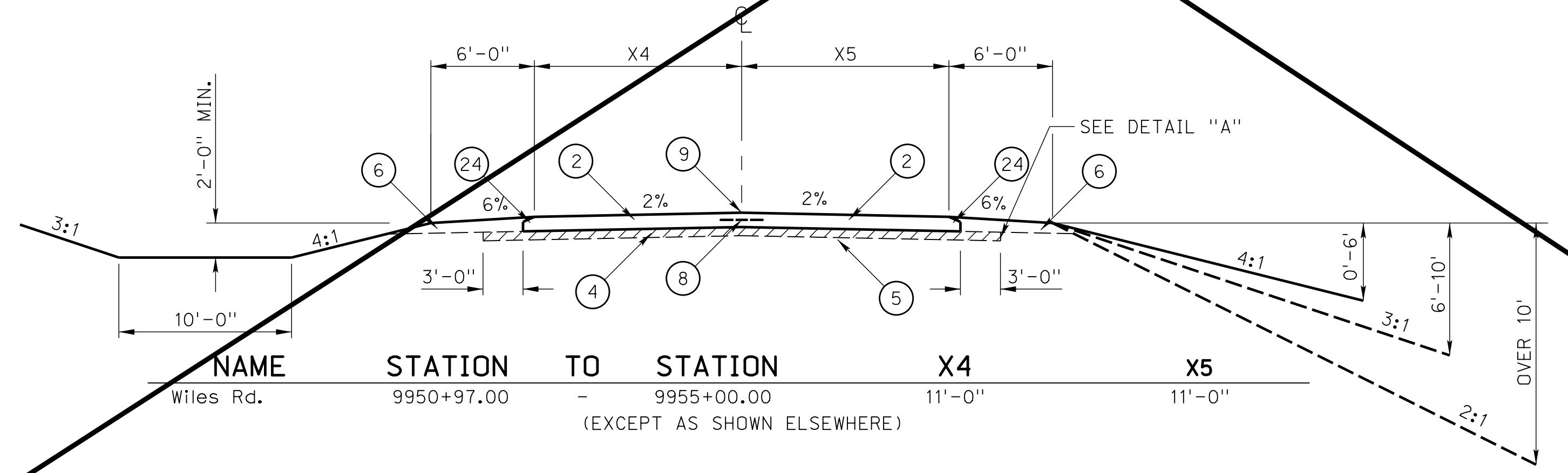
NAME	STATION	TO	STATION	X1
Murray Rd.	9000+97.00	-	9003+19.16	6'-0"
Murray Rd.	9003+19.16	-	9003+91.04	6'-0" TO 4'-6"

(EXCEPT AS SHOWN ELSEWHERE)



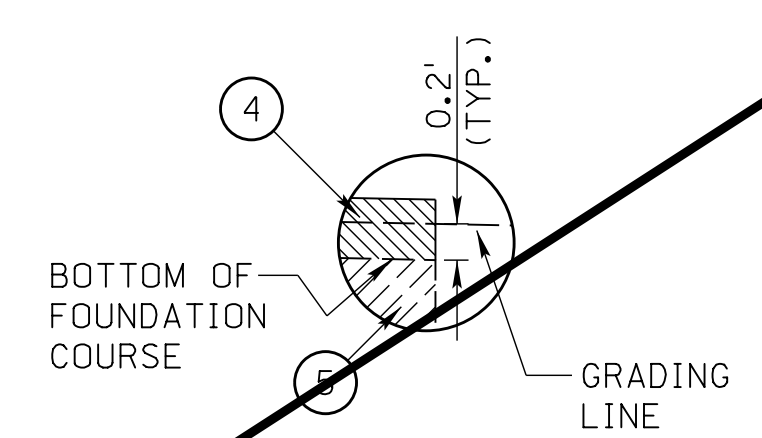
NAME	STATION	TO	STATION	X2	X3
Murray Rd.	9003+91.04	-	9005+42.93	16'-6" TO 13'-0"	16'-6" TO 13'-0"
Murray Rd.	9005+42.93	-	9005+72.86	13'-0"	13'-0" TO 12'-4"
Murray Rd.	9005+72.86	-	9005+90.00	13'-0"	12'-4"
Rock Bluff Rd.	9201+42.00	-	9201+54.00	26'-9" TO 25'-9"	18'-2" TO 15'-0"
Church Rd.	9550+97.00	-	9554+75.00	12'-0"	12'-0"
Church Rd.	9554+75.00	-	9555+25.00	12'-0" TO 10'-9"	12'-0" TO 10'-9"
Horning Rd.	9801+17.74	-	9801+49.00	27'-0"	VARIES

(EXCEPT AS SHOWN ELSEWHERE)

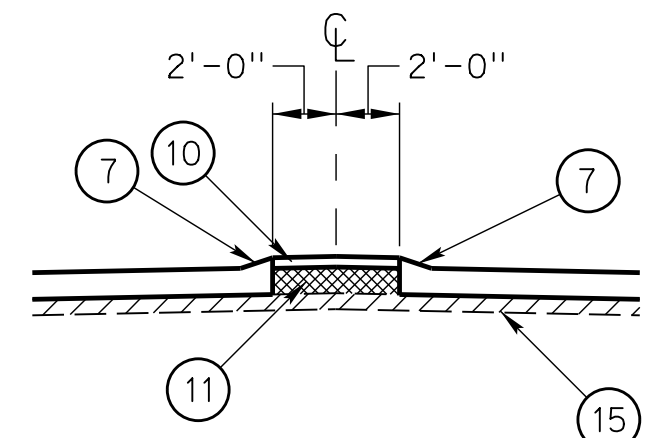


NAME	STATION	TO	STATION	X4	X5
Wiles Rd.	9950+97.00	-	9955+00.00	11'-0"	11'-0"

(EXCEPT AS SHOWN ELSEWHERE)



DETAIL "A"
 GRADING LINE UNDERCUT DETAIL.
 APPLIES TO ALL CONCRETE PAVED
 TYPICAL SECTIONS.



NAME	STATION	TO	STATION
Rock Bluff Rd.	9200+49.00	-	9201+42.00
Horning Rd.	9800+49.00	-	9801+17.74

(EXCEPT AS SHOWN ELSEWHERE)

- LEGEND**
- ① 10" DOWELED CONCRETE PAVEMENT
 - ② 10" CONCRETE PAVEMENT
 - ③ 10" TO 8" CONCRETE PAVEMENT
 - ④ 4" FOUNDATION COURSE SEE DETAIL "A"
 - ⑤ STABILIZED SUBGRADE, TYPE LIME
 - ⑥ EARTH SHOULDER CONSTRUCTION
 - ⑦ 4" SLOPING CURB
 - ⑧ LONGITUDINAL JOINT
 - ⑨ PROFILE GRADE POINT
 - ⑩ 4" CONCRETE MEDIAN SURFACING
 - ⑪ SANDFILL FOR MEDIAN
 - ⑫ 8" ASPHALTIC CONCRETE PAVEMENT, TYPE SPR
 - ⑬ 3" ASPHALTIC CONCRETE PAVEMENT, TYPE SPR
 - ⑭ 2" ASPHALTIC CONCRETE PAVEMENT, TYPE SPR
 - ⑮ SUBGRADE PREPARATION
 - ⑯ 2" COLD MILLING, CLASS 3, TYPE A
 - ⑰ 1" COLD MILLING, CLASS 3
 - ⑱ 1" GRAVEL SURFACE COURSE
 - ⑲ GRAVEL EMBEDMENT
 - ⑳ 10" TEMPORARY SURFACING
 - ㉑ EXISTING ASPHALTIC CONCRETE
 - ㉒ EXISTING PAVEMENT
 - ㉓ BEVELED EDGE (SEE DETAIL B)
 - ㉔ BEVELED EDGE (SEE DETAIL C)
 - ㉕ 3" EROSION CONTROL CURB
 - ㉖ 6" SURFACING
 - ㉗ 6" CONCRETE PAVEMENT
 - ㉘ 8" CONCRETE PAVEMENT
 - ㉙ 10" SURFACING
 - ㉚ CRUSHED ROCK EMBEDMENT
 - ㉛ 2" CRUSHED ROCK SURFACE COURSE
 - ㉜ 12" DOWELED CONCRETE PAVEMENT
 - ㉝ 12" TO 10" CONCRETE PAVEMENT
 - ㉞ 8" DOWELED CONCRETE PAVEMENT

*THIS MATERIAL TO BE REMOVED BY THE SURFACING CONTRACTOR AND INCORPORATED INTO THE SHOULDERS.



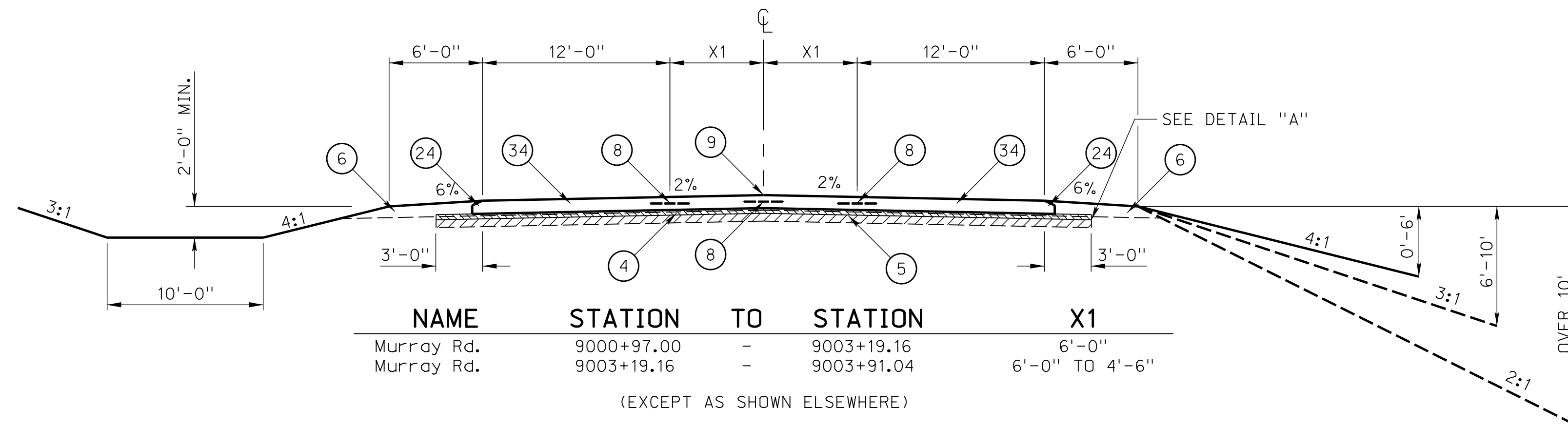
FOR DETAILS NOT SHOWN
 SEE PLANS 301 & 329

TYPICAL CROSS SECTIONS

(R1) ADDED SHEET 15 FEB 21

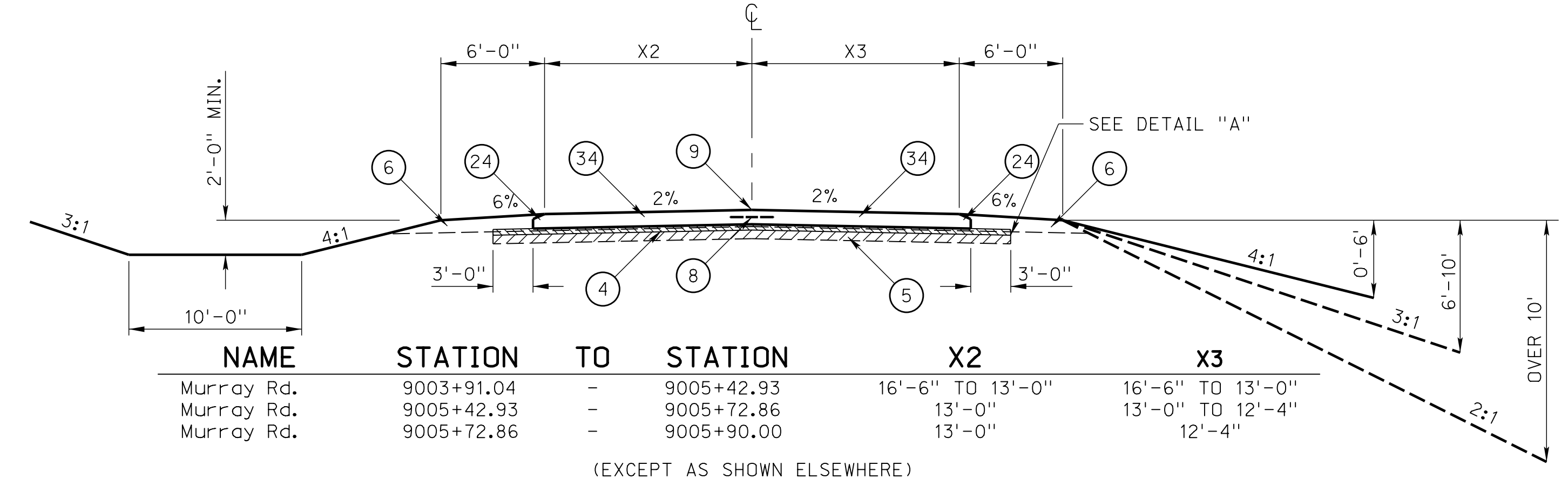
WILSON & COMPANY

PROJECT NO. 75-2(128)	SHEET NO. B6A
C.N. 21209	



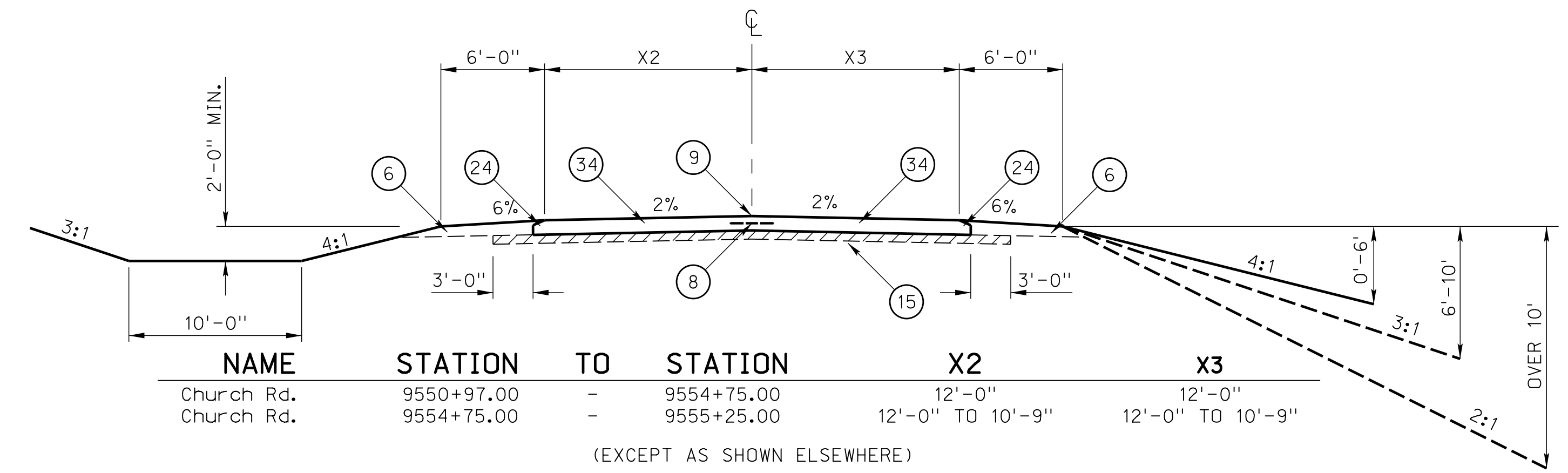
NAME	STATION	TO	STATION	X1
Murray Rd.	9000+97.00	-	9003+19.16	6'-0"
Murray Rd.	9003+19.16	-	9003+91.04	6'-0" TO 4'-6"

(EXCEPT AS SHOWN ELSEWHERE)



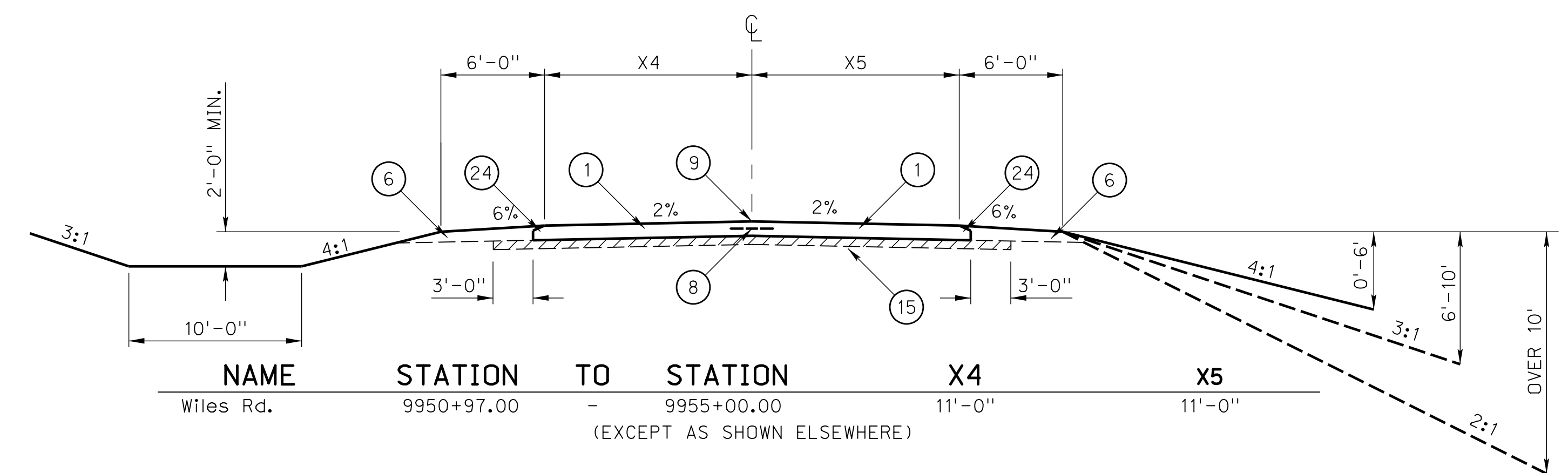
NAME	STATION	TO	STATION	X2	X3
Murray Rd.	9003+91.04	-	9005+42.93	16'-6" TO 13'-0"	16'-6" TO 13'-0"
Murray Rd.	9005+42.93	-	9005+72.86	13'-0"	13'-0" TO 12'-4"
Murray Rd.	9005+72.86	-	9005+90.00	13'-0"	12'-4"

(EXCEPT AS SHOWN ELSEWHERE)



NAME	STATION	TO	STATION	X2	X3
Church Rd.	9550+97.00	-	9554+75.00	12'-0"	12'-0"
Church Rd.	9554+75.00	-	9555+25.00	12'-0" TO 10'-9"	12'-0" TO 10'-9"

(EXCEPT AS SHOWN ELSEWHERE)



NAME	STATION	TO	STATION	X4	X5
Wiles Rd.	9950+97.00	-	9955+00.00	11'-0"	11'-0"

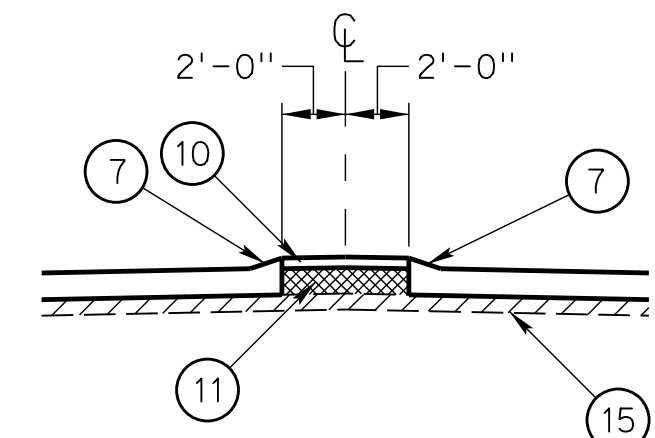
(EXCEPT AS SHOWN ELSEWHERE)

LEGEND

- 1 10" DOWELED CONCRETE PAVEMENT
- 2 10" CONCRETE PAVEMENT
- 3 10" TO 8" CONCRETE PAVEMENT
- 4 4" FOUNDATION COURSE SEE DETAIL "A"
- 5 STABILIZED SUBGRADE, TYPE LIME
- 6 EARTH SHOULDER CONSTRUCTION
- 7 4" SLOPING CURB
- 8 LONGITUDINAL JOINT
- 9 PROFILE GRADE POINT
- 10 4" CONCRETE MEDIAN SURFACING
- 11 SANDFILL FOR MEDIAN
- 12 8" ASPHALTIC CONCRETE PAVEMENT, TYPE SPR
- 13 3" ASPHALTIC CONCRETE PAVEMENT, TYPE SPR
- 14 2" ASPHALTIC CONCRETE PAVEMENT, TYPE SPR
- 15 SUBGRADE PREPARATION
- 16 2" COLD MILLING, CLASS 3, TYPE A
- 17 1" COLD MILLING, CLASS 3
- 18 1" GRAVEL SURFACE COURSE
- 19 GRAVEL EMBEDMENT
- 20 10" TEMPORARY SURFACING
- 21 EXISTING ASPHALTIC CONCRETE
- 22 EXISTING PAVEMENT
- 23 BEVELED EDGE (SEE DETAIL B)
- 24 BEVELED EDGE (SEE DETAIL C)
- 25 3" EROSION CONTROL CURB
- 26 6" SURFACING
- 27 6" CONCRETE PAVEMENT
- 28 8" CONCRETE PAVEMENT
- 29 10" SURFACING
- 30 CRUSHED ROCK EMBEDMENT
- 31 2" CRUSHED ROCK SURFACE COURSE
- 32 12" DOWELED CONCRETE PAVEMENT
- 33 12" TO 10" CONCRETE PAVEMENT
- 34 8" DOWELED CONCRETE PAVEMENT

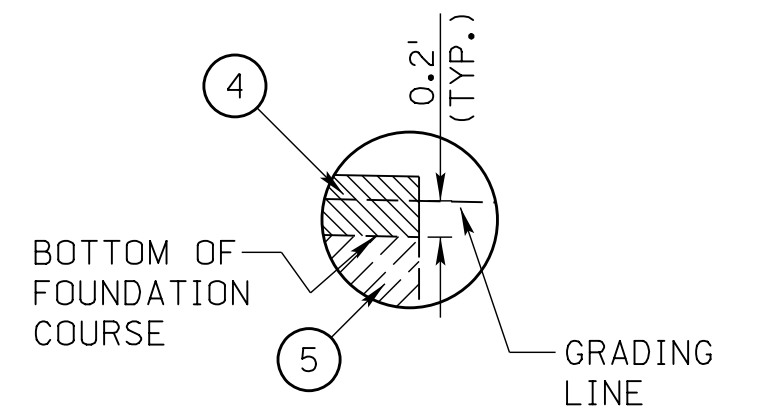
*THIS MATERIAL TO BE REMOVED BY THE SURFACING CONTRACTOR AND INCORPORATED INTO THE SHOULDERS.

FOR DETAILS NOT SHOWN SEE PLANS 301 & 329



NAME	STATION	TO	STATION
Rock Bluff Rd.	9200+49.00	-	9201+42.00
Horning Rd.	9800+49.00	-	9801+17.74

(EXCEPT AS SHOWN ELSEWHERE)



DETAIL "A"
GRADING LINE UNDERCUT DETAIL. APPLIES TO ALL CONCRETE PAVED TYPICAL SECTIONS.

ROADWAY DESIGN DIVISION

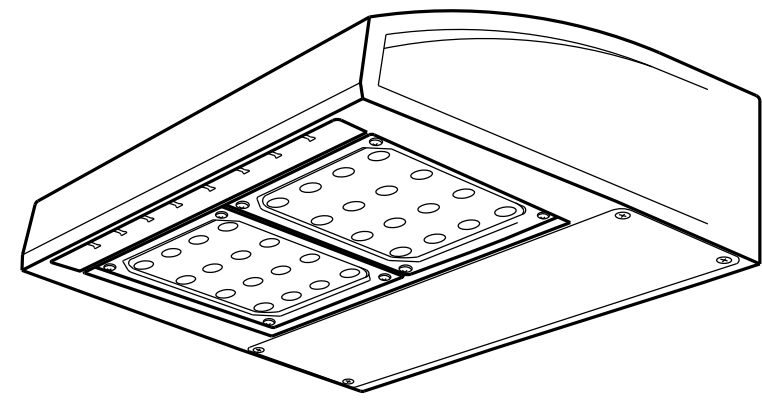
User: MFS:teffensmeier Computer: A13435

Date: 29-JAN-2021 13:24

File: 21090c+06_R1

(R1) ADDED SHEET

**LED UNDERDECK LUMINAIRE SYSTEM
FOR BRIDGE STRUCTURE S034 37969**



- LUMINAIRE:** LUMINAIRE SHALL BE A LED TYPE WITH A CORRELATED COLOR TEMPERATURE OF 3000K, TOTALLY ENCLOSED, PREWIRED, EQUIPPED FOR SURFACE MOUNTING AND RATED FOR USE IN UL1598 OUTDOOR WET LOCATIONS. HOUSING SHALL BE FINISHED WITH ELECTROSTATICALLY APPLIED POLYESTER POWDER PAINT IN GREY OR BRONZE COLOR; GREY BEING PREFERRED.
- STYLE:** ILLUSTRATION IS TYPICAL OF LED LUMINAIRES COMMERCIALY AVAILABLE AS UNDERDECK LIGHTS. LUMINAIRES OF OTHER DESIGNS AND MEETING PROJECT SPECIFICATIONS ARE EQUALLY ACCEPTABLE.
- MECHANICAL CONSTRUCTION:** LUMINAIRE SHALL HAVE A RUGGED DIE CAST ALUMINUM HOUSING AND A VANDAL RESISTANT LENS OF U.V. STABILIZED POLYCARBONATE OR HEAT AND IMPACT RESISTANT BOROSILICATE GLASS.
- ELECTRICAL:** 120-277 VAC @ 50/60 HZ; SYSTEM POWER FACTOR 90%, 0-10V CONTINUOUS DIMMING; 10KV/5KA SURGE PROTECTION
- OPTICAL ASSEMBLY:** OPTICAL ASSEMBLY SHALL BE DESIGNED TO CONTROL GLARE WHILE PROVIDING AN AVERAGE MAINTAINED HORIZONTAL ILLUMINATION LEVEL OF NO LESS THAN 1.0 Fc; AN AVE./MIN. UNIFORMITY RATIO NO GREATER THAN 2.0; A MAX./MIN. UNIFORMITY RATIO NO GREATER THAN 3.5 AND A MAXIMUM BUG RATING OF B2 U0 G2 WHEN USING THE FOLLOWING PARAMETERS: ROADWAY WIDTH OF 24 FT.; MOUNTING HEIGHT 24 FT.; LUMINAIRE SETBACK 25 FT.; LUMINAIRE SPACING 30 FT. USE OPPOSITE SIDE LAYOUT AND A MAINTENANCE FACTOR OF 0.83.
- APPROVAL REQUIREMENTS:** ONLY LED UNDERDECK LUMINAIRES LISTED ON THE NDOT "NEBRASKA QUALIFIED MATERIALS VENDORS LIST" WILL BE CONSIDERED FOR USE ON NEBRASKA HIGHWAY LIGHTING PROJECTS. THE "NEBRASKA QUALIFIED MATERIALS VENDORS LIST CAN BE FOUND ON THE NDOT WEBSITE. THE NDOT LIGHTING UNIT WILL VERIFY, VIA COMPUTER SIMULATION, THAT THE LED LUMINAIRE MEETS PROJECT PHOTOMETRIC REQUIREMENTS.
- ACCEPTABLE LUMINAIRE:** UNDERDECK LUMINAIRES CONSIDERED AS MEETING THE ABOVE LISTED REQUIREMENTS AND BEING ACCEPTABLE FOR USE ARE LISTED ON THE "NEBRASKA QUALIFIED MATERIAL VENDORS LIST".

FURNISH AND INSTALL UNDERDECK UNITS OF THE TYPE SHOWN IN THE PLANS. EXCEPT FOR A TOTAL OF APPROXIMATELY 6 FT. OF 3/4" LIQUID TIGHT FLEXIBLE METAL CONDUIT, THE CONDUIT SYSTEMS TO THE UNDERDECK LIGHTS ARE EXISTING. THE CONTRACTOR WILL FURNISH AND INSTALL THE LIQUID TIGHT CONDUIT BETWEEN THE STUBOUT IN THE UNDERSIDE OF THE BRIDGE DECK AND THE STUBOUT IN THE TOP OF THE PIER CAP.

UNDERDECK UNITS WILL BE FED FROM THE STREET LIGHTING CIRCUIT IN THE BRIDGE CURB. TAP THE STREET LIGHTING CIRCUIT IN THE EXISTING JUNCTION BOXES IN THE BRIDGE CURB.

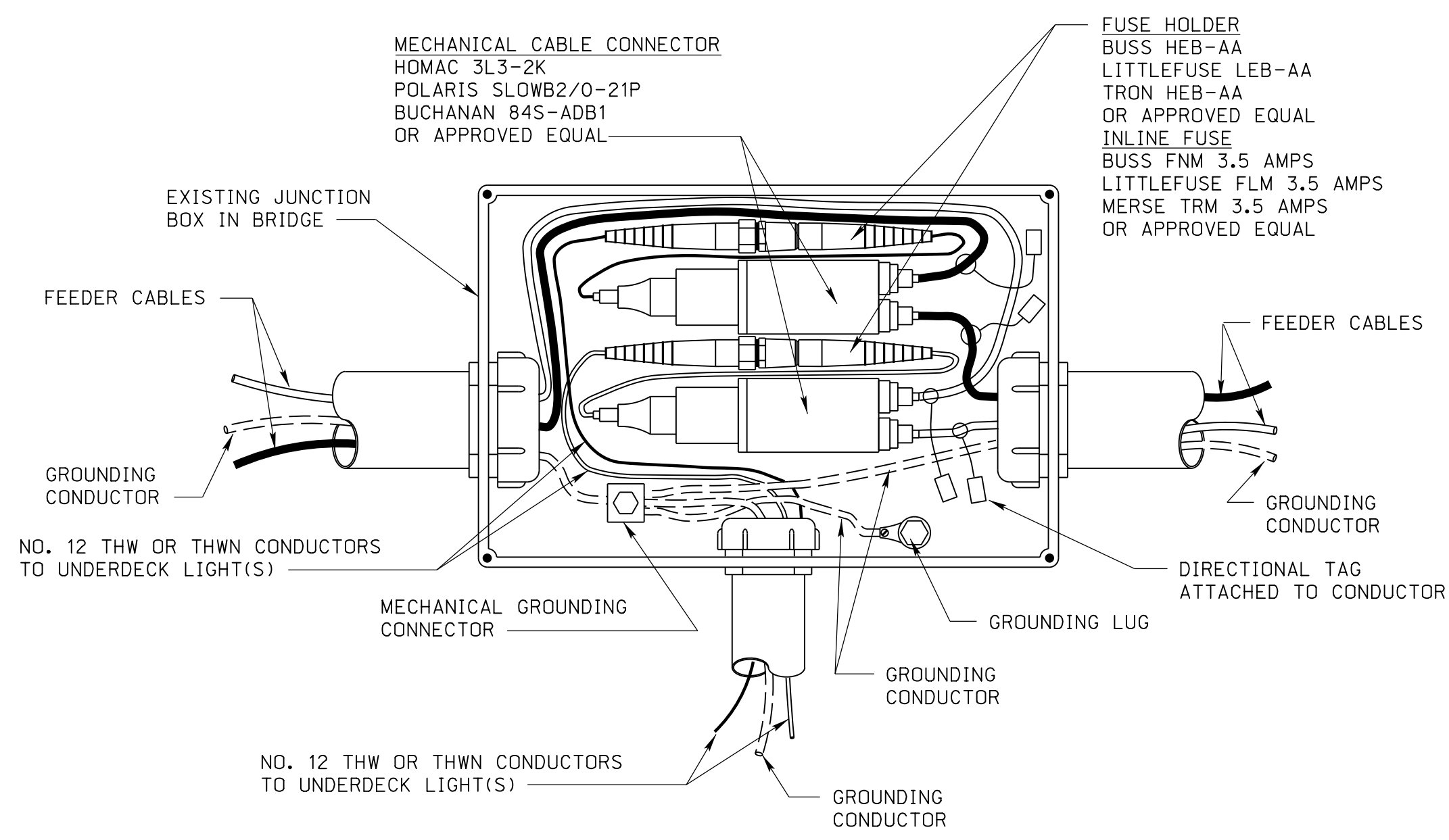
INSTALL CONDUCTORS IN THE EXISTING 3/4" CONDUIT TO THE UNDERDECK LUMINAIRES. PROVIDE APPROVED WEATHERPROOF IN-LINE FUSE HOLDERS WITH FUSES TO THE UNDERDECK CIRCUITS. USE NO. 12 TYPE THWN STRANDED COPPER CONDUCTORS FOR THE PHASE CONDUCTORS AND NO. 12 STRANDED COPPER WIRE (BARE OR GREEN INSULATION) FOR THE EQUIPMENT GROUNDING CONDUCTOR. FUSE THE CIRCUITS IN THE EXISTING JUNCTION BOXES.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT
UNDERDECK LUMINAIRES, COMPLETE IN PLACE AND ACCEPTED BY THE ENGINEER, SHALL BE MEASURED FOR PAYMENT AS SINGLE UNITS AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR THE ITEM "UNDERDECK LUMINAIRE, TYPE UD-B". THIS PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING THE LUMINAIRE AS DETAILED IN THE PLANS; FOR ALL NECESSARY CONDUCTORS FROM THE JUNCTION BOX IN THE BRIDGE CURB TO THE LUMINAIRES; FOR ALL FUSES AND FUSE HOLDERS; AND FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

PULL BOX SCHEDULE			
UNIT NO.	STATION	TYPE	REMARKS
PULL BOX 8	451+52-54' LT.	PB-5	☐ HWY. US-34 & US-75
PULL BOX 9	454+61-60' LT.	PB-5	☐ HWY. US-34 & US-75
PULL BOX 10	457+38-60' LT.	PB-5	☐ HWY. US-34 & US-75

UNDERDECK LUMINAIRE, TYPE UD-

UNDERDECK LUMINAIRE SCHEDULE		
UNIT NO.	LOCATION	TYPE
UD-1	SEE BRIDGE PLANS, STRUCTURE S034 37969 AND LIGHTING PLAN SHEET N13	UD-B
UD-2		UD-B
UD-3		UD-B
UD-4		UD-B
UD-5		UD-B
UD-6		UD-B
UD-7		UD-B
UD-8		UD-B
UD-9		UD-B
UD-10		UD-B



**CONNECTIONS IN JUNCTION BOX
(TYPICAL)**



LIGHTING

ROADWAY DESIGN DIVISION

Computer: NDOTDESIGN217

Date: 09-FEB-2021 16:55

File: 212090114 REV 1 ADDED.dgn
Scale: 1:100

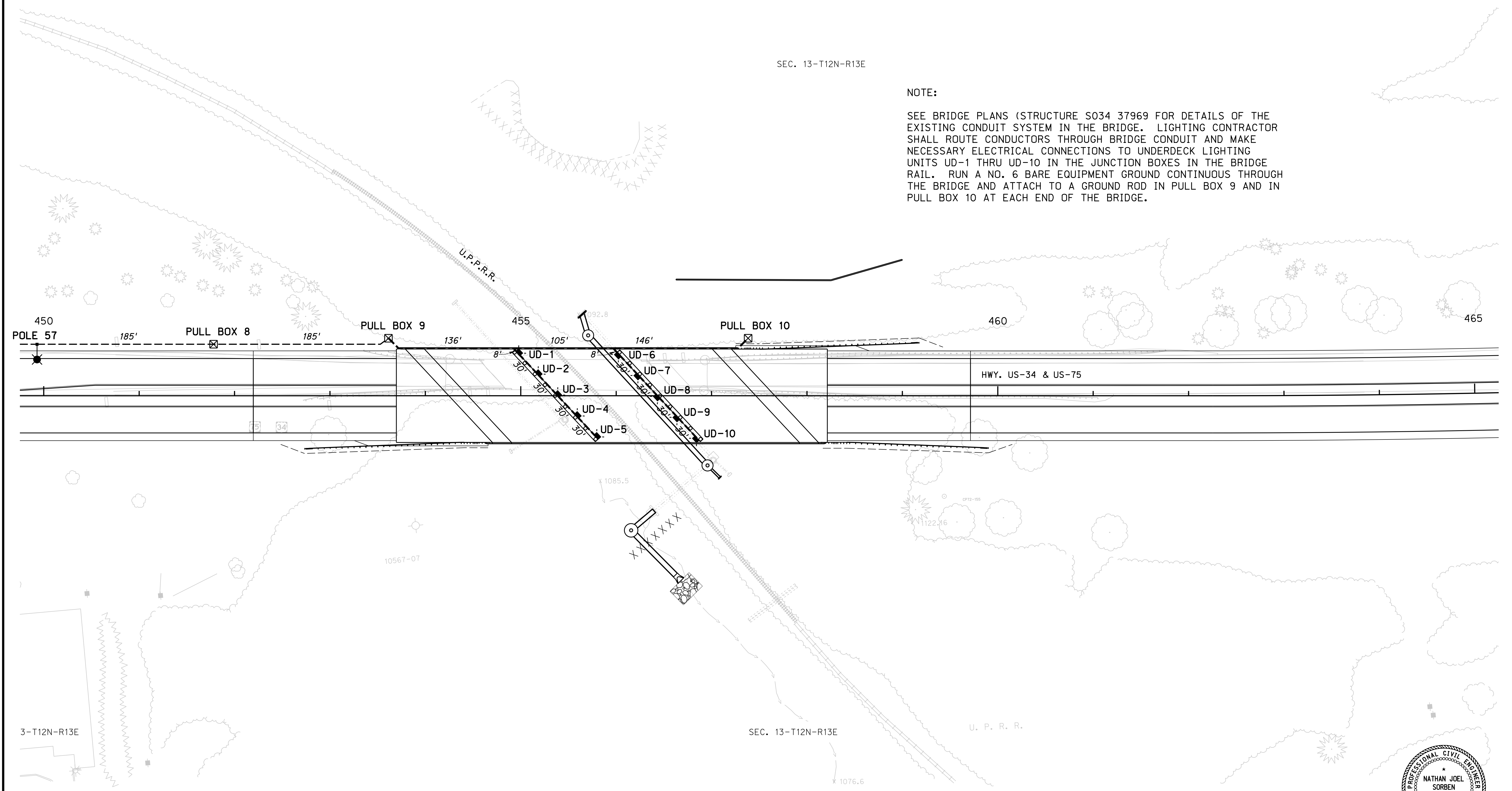
(R1) ADDED SHEET

ROADWAY DESIGN DIVISION

SEC. 13-T12N-R13E

NOTE:

SEE BRIDGE PLANS (STRUCTURE S034 37969 FOR DETAILS OF THE EXISTING CONDUIT SYSTEM IN THE BRIDGE. LIGHTING CONTRACTOR SHALL ROUTE CONDUCTORS THROUGH BRIDGE CONDUIT AND MAKE NECESSARY ELECTRICAL CONNECTIONS TO UNDERDECK LIGHTING UNITS UD-1 THRU UD-10 IN THE JUNCTION BOXES IN THE BRIDGE RAIL. RUN A NO. 6 BARE EQUIPMENT GROUND CONTINUOUS THROUGH THE BRIDGE AND ATTACH TO A GROUND ROD IN PULL BOX 9 AND IN PULL BOX 10 AT EACH END OF THE BRIDGE.



Computer: NDOTDESIGN217

Date: 09-FEB-2021 17:05

File: 212090113 REV 1 ADDED.dgn
Scale: 1:50



LIGHTING

Smith, Jacob

From: Kresl, Zachary (FHWA) <zach.kresl@dot.gov>
Sent: Tuesday, November 17, 2020 4:28 PM
To: Pitts, Luke
Cc: Maiefski, Melissa
Subject: RE: 21209 NH-75-2(128) Murray - Plattsmouth Addendum No. 3

Hi Luke,

FHWA agrees with your assessment. No further environmental review is needed at this time.

Zach Kresl
Environmental Protection Specialist
FHWA Nebraska Division
(402)742-8465

From: Pitts, Luke [mailto:luke.pitts@nebraska.gov]
Sent: Tuesday, November 17, 2020 2:08 PM
To: Kresl, Zachary (FHWA) <zach.kresl@dot.gov>
Cc: Maiefski, Melissa (FHWA) <melissa.maiefski@dot.gov>
Subject: RE: 21209 NH-75-2(128) Murray - Plattsmouth Addendum No. 3

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Zach, Melissa,

As an update, contracts apparently would need the Addendum approved today. I believe Michele in Contracts has let Shin-Che know. I'm sorry I didn't mention that yesterday.

Luke Pitts, Environmental Project Manager
NEBRASKA DEPARTMENT OF TRANSPORTATION
1500 Highway 2 | Lincoln, NE | 68509
402.479.3567 | luke.pitts@nebraska.gov

From: Pitts, Luke
Sent: Monday, November 16, 2020 3:46 PM
To: Kresl, Zachary (FHWA) <zach.kresl@dot.gov>
Cc: Maiefski, Melissa <melissa.maiefski@dot.gov>
Subject: RE: 21209 NH-75-2(128) Murray - Plattsmouth Addendum No. 3

Zach,

The corrections to the bid items and quantities in Addendum #3 do not add additional scope to the project and the LOC's remain unchanged. The additional tonnage of crushed rock for temporary surfacing is to maintain access to the residential and business driveways as depicted in the final plans and required by the environmental commitments. The luminary items at the bridge over the UPRR are needed for the contractor to fulfill the lighting details at the bridge as depicted in the final plans (Plan Sheet S-31). I consulted with NDOT T&E PQS Jon Soper to ensure the under-bridge lighting was reviewed in the T&E analysis. Jon determined that lighting was a known project activity, and determined

that the additional detail provided in the addendum would not change the previous T&E effects determination (see attached). Due to the Addendum resulting in no change to the scope of the project, there is no potential to affect the environmental determinations or commitments established for the project. The NEPA determination in the ROD remains valid.

Let me know if you have any questions.

Luke

Luke Pitts, Environmental Project Manager
NEBRASKA DEPARTMENT OF TRANSPORTATION
1500 Highway 2 | Lincoln, NE | 68509
402.479.3567 | luke.pitts@nebraska.gov

From: Pitts, Luke
Sent: Monday, November 16, 2020 9:49 AM
To: Kresl, Zachary (FHWA) <zach.kresl@dot.gov>
Cc: Maiefski, Melissa <melissa.maiefski@dot.gov>
Subject: RE: 21209 NH-75-2(128) Murray - Plattsmouth Addendum No. 3

Hi Zach,

We are working on this one currently. Should have something to you in the next few days.

Luke Pitts, Environmental Project Manager
NEBRASKA DEPARTMENT OF TRANSPORTATION
1500 Highway 2 | Lincoln, NE | 68509
402.479.3567 | luke.pitts@nebraska.gov

From: Kresl, Zachary (FHWA) <zach.kresl@dot.gov>
Sent: Monday, November 16, 2020 9:47 AM
To: Pitts, Luke <luke.pitts@nebraska.gov>
Cc: Maiefski, Melissa <melissa.maiefski@dot.gov>
Subject: FW: 21209 NH-75-2(128) Murray - Plattsmouth Addendum No. 3

Hi Luke,

We have received another addendum for the Murray-Plattsmouth project (attached), and I am wondering if NDOT Environmental has had a chance to review this one too?

Zach Kresl
Environmental Protection Specialist
FHWA Nebraska Division
(402)742-8465

From: Huang, Shin-Che (FHWA)
Sent: Monday, November 16, 2020 8:13 AM
To: Maiefski, Melissa (FHWA) <melissa.maiefski@dot.gov>; Kresl, Zachary (FHWA) <zach.kresl@dot.gov>
Cc: Burroughs, Mary (FHWA) <Mary.Burroughs@dot.gov>; Simerl, James (FHWA) <James.Simerl@dot.gov>
Subject: FW: 21209 NH-75-2(128) Murray - Plattsmouth Addendum No. 3

Melissa and Zach.

It seems like this is another language modification. Let me know if you have any comments. Thanks,

Shin-Che

From: Weigel, Michelle [<mailto:Michelle.Weigel@nebraska.gov>]
Sent: Monday, November 16, 2020 7:16 AM
To: Huang, Shin-Che (FHWA) <shin-che.huang@dot.gov>; Burroughs, Mary (FHWA) <Mary.Burroughs@dot.gov>; pjinfne (FHWA) <pjinfne@dot.gov>; Petracek, Sue (FHWA) <Sue.Petracek@dot.gov>
Cc: Stege, Kendall <Kendall.Stege@nebraska.gov>
Subject: 21209 NH-75-2(128) Murray - Plattsmouth Addendum No. 3

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Good Morning,

Attached is Addendum No 3 and the FHWA Approval form for the above mentioned project for this Thursdays letting. We will sign and date the addendum once we receive FHWA approval.

Thanks,
Michelle Weigel
Hwy Contracts Supervisor
Construction Division
402-479-4559